direct evening set	600 Jan 24 j 03:37 600 Apr 24 j 20:08	18° 8 30'12 21° 8 39'06		evening set	605 May 17 j 21:34	13° Ⅱ 31'14	
evening sec	00011p1 2.1j 20.00	21 055 00		conjunction	605 Jun 03 j 16:14	14° ∏ 31′00	0°05'55
conjunction	600 May 11 j 12:12	22° 8 37'25	-0°10'51	minimum elong	605 Jun 03 j 16:15	14° I [31'00	0°05'54
minimum elong	600 May 11 j 12:12	22° 8 37'25		behind sun begin	605 Jun 03 j 09:47	14° ∏ 30'03	0 00 0 .
behind sun begin	600 May 11 j 07:07	22° 8 36'41	0 1031	behind sun end	605 Jun 03 j 22:43	14° I I31'56	
behind sun end	600 May 11 j 17:16	22° 8 38'09		max. Earth dist.	605 Jun 03 j 01:45		19.98225 AU
max. Earth dist.	600 May 11 j 17:10		20.30996 AU	morning rise	605 Jun 20 j 11:23	15° ∏ 30′52	17.70223710
morning rise	600 May 28 j 05:56	23° 8 36'02	20.30770710	retrograde	605 Sep 22 j 02:04	18° ∏ 47'45	
retrograde	600 Aug 30 j 11:47	26° 8 50'14		opposition	605 Dec 05 j 19:27	16° Ⅱ 47'49	0°08'22
opposition	600 Nov 14 j 01:27	24° 8 48'37	-0°10'11	min. Earth dist.	605 Dec 06 j 08:07		17.94947 AU
min. Earth dist.	600 Nov 14 j 04:53		18.27822 AU	direct	606 Feb 18 j 15:07	10 ∏ 4407 14° ∏ 42'44	17.54547 AO
direct	601 Jan 27 j 16:00	22° 8 47'59	10.27022 AC	evening set	606 May 22 j 19:32	17° ∏ 58'48	
evening set	601 Apr 29 j 13:51	25° 8 58'01		evening set	000 May 22 j 19.32	17 113848	
evening set	001 Apr 29 j 13.31	23 03801		conjunction	606 Jun 08 j 14:39	18° Ⅱ 58'50	0°09'15
conjunction	601 May 16 j 06:27	26° 8 56'38	0007127	minimum elong	606 Jun 08 j 14:39	18° Д 58'50	0°09'15
		26° 8 56'38		-	606 Jun 08 j 08:59	18° ∏ 58′00	0 0913
minimum elong	601 May 16 j 06:27 601 May 16 j 00:20	26° 8 55'45	0 0/3/	behind sun begin behind sun end	606 Jun 08 j 20:19	18° Д 59'40	
behind sun begin		. •			•		19.91729 AU
behind sun end	601 May 16 j 12:34	26° 8 57'31	20.24641.411	max. Earth dist.	606 Jun 07 j 23:18		19.91/29 AU
max. Earth dist.	601 May 16 j 00:07		20.24641 AU	morning rise	606 Jun 25 j 09:42	19° ∏ 58'55	
morning rise	601 Jun 02 j 00:48	27° 8 55'31		retrograde	606 Sep 26 j 22:05	23° I I16'18	0012105
	601 Jul 12 j 19:44	0°II		opposition	606 Dec 10 j 10:27	21° I I13'56	
retrograde	601 Sep 04 j 03:35	1° Ⅱ 10′17		min. Earth dist.	606 Dec 10 j 23:34		17.88534 AU
	601 Oct 28 j 18:12	30°₹ 8		direct	607 Feb 23 j 08:40	19° Ⅱ 10'46	
opposition	601 Nov 18 j 13:33	29° 8 08'33		evening set	607 May 27 j 18:22	22° Ⅱ 28′03	
min. Earth dist.	601 Nov 18 j 19:26	_	18.21386 AU			🗕	
direct	602 Feb 01 j 04:19	27° 8 07'31		conjunction	607 Jun 13 j 13:32	23° ∐ 28′20	0°12'34
	602 Apr 28 j 21:19	0°Щ		minimum elong	607 Jun 13 j 13:32	23° ∏ 28′20	0°12'34
evening set	602 May 04 j 08:29	0°Ⅱ18'44		behind sun begin	607 Jun 13 j 09:18	23° Ⅱ 27'43	
				behind sun end	607 Jun 13 j 17:46	23° Ⅱ 28'57	
conjunction	602 May 21 j 01:55	1° Ⅱ 17'39		max. Earth dist.	607 Jun 12 j 19:57		19.85410 AU
minimum elong	602 May 21 j 01:54	1° Ⅱ 17'39	0°04'20	morning rise	607 Jun 30 j 08:29	24° Ⅱ 28'38	
behind sun begin	602 May 20 j 19:14	1° Ⅱ 16'41		retrograde	607 Oct 01 j 16:38	27° Ⅱ 46'31	
behind sun end	602 May 21 j 08:33	1° Ⅱ 18'36		opposition	607 Dec 15 j 02:14	25° Ⅱ 44'03	0°15'45
max. Earth dist.	602 May 20 j 18:24	1° Ⅱ 16'34	20.18127 AU	min. Earth dist.	607 Dec 15 j 17:28	25° ∏ 42'24	17.82350 AU
morning rise	602 Jun 06 j 20:25	2° Ⅱ 16'46		direct	608 Feb 28 j 00:28	23° ∏ 40′29	
retrograde	602 Sep 08 j 20:55	5° Ⅲ 32′05		evening set	608 May 31 j 17:50	26° ∏ 59'00	
opposition	602 Nov 23 j 02:01	3° Ⅲ 30′14	-0°02'52				
min. Earth dist.	602 Nov 23 j 09:07	3° Ⅱ 29′28	18.14803 AU	conjunction	608 Jun 17 j 13:12	27° ∏ 59'32	0°15'49
direct	603 Feb 05 j 18:36	1° Ⅲ 28'48		minimum elong	608 Jun 17 j 13:11	27° Ⅲ 59'32	0°15'49
evening set	603 May 09 j 04:10	4° Ⅱ 41'12		max. Earth dist.	608 Jun 16 j 18:51	27° Ⅱ 56'46	19.79364 AU
				morning rise	608 Jul 04 j 07:53	29° Ⅱ 00'01	
conjunction	603 May 25 j 21:56	5° Ⅱ 40′24	-0°00'57		608 Jul 21 j 21:59	0 \circ \odot	
minimum elong	603 May 25 j 21:57	5° Ⅱ 40′24	0°00'57	retrograde	608 Oct 05 j 14:00	2° 5 18'24	
behind sun begin	603 May 25 j 15:11	5° Ⅱ 39'25		opposition	608 Dec 18 j 18:35	0° © 15'51	0°19'21
behind sun end	603 May 26 j 04:44	5° Ⅱ 41'22		min. Earth dist.	608 Dec 19 j 09:53	0°\$514'12	17.76459 AU
max. Earth dist.	603 May 25 j 11:10	5° Ⅱ 38'49	20.11502 AU		608 Dec 24 j 20:55	30°R Ⅱ	
morning rise	603 Jun 11 j 16:52	6° Ⅱ 39'47		direct	609 Mar 03 j 19:50	28° Ⅱ 11'56	
asc. node	603 Sep 02 j 19:14	9° Ⅲ 52'32			609 May 09 j 00:57	0°€	
retrograde	603 Sep 13 j 13:41	9° Ⅱ 55'37		evening set	609 Jun 05 j 18:07	1°531'40	
opposition	603 Nov 27 j 15:19	7° Ⅱ 53'38	0°00'52	C	,		
min. Earth dist.	603 Nov 28 j 00:50		18.08157 AU	conjunction	609 Jun 22 j 13:28	2° © 32'26	0°19'00
direct	604 Feb 10 j 08:24	5° Ⅱ 51'46		minimum elong	609 Jun 22 j 13:28	2° © 32'26	0°19'00
evening set	604 May 13 j 00:18	9° Ⅱ 05'22		max. Earth dist.	609 Jun 21 j 17:31	2° © 29'25	19.73631 AU
3				morning rise	609 Jul 09 j 07:52	3°533'07	
conjunction	604 May 29 j 18:43	10° Ⅱ 04'51	0°02'32	retrograde	609 Oct 10 j 09:20	6°951'58	
minimum elong	604 May 29 j 18:43	10° Ⅱ 04'51	0°02'32	opposition	609 Dec 23 j 11:52	4°5549'24	0°22'50
behind sun begin	604 May 29 j 11:57	10° Ⅱ 03'52	· · · -	min. Earth dist.	609 Dec 24 j 05:08	4°5947'31	17.70909 AU
behind sun end	604 May 30 j 01:29	10° I 05′50		direct	610 Mar 08 j 13:07	2°545'09	-,.,0,0,110
max. Earth dist.	604 May 29 j 07:03		20.04845 AU	evening set	610 Jun 10 j 19:13	6°906'06	
morning rise	604 Jun 15 j 13:40	10 Ⅱ 03 08 11° Ⅱ 04'29	20.0 1043 AU	Jimig 50t	510 van 10 j 17.13	5 - 00 00	
retrograde	604 Sep 17 j 08:12	11 II 0429 14° II 20'51		conjunction	610 Jun 27 j 14:30	7° © 07'05	0°22'04
opposition	604 Sep 17 J 08.12 604 Dec 01 j 05:04	14 Ⅲ 2031 12° Ⅱ 18'44	0°04'37	minimum elong	610 Jun 27 j 14:29	7°507'05	0°22'04
min. Earth dist.	604 Dec 01 j 15:23		18.01507 AU	max. Earth dist.	610 Jun 26 j 17:33		19.68263 AU
direct	605 Feb 14 j 00:13	12 П 1/3/ 10° П 16'25	10.01307 AU	morning rise	610 Jul 14 j 08:31	8°907'55	17.00203 AU
uncci	005 FCU 14 J 00.13	то што 23		morning rise	010 Jui 14 J U8.31	0 کاران ک	

retrograde	610 Oct 15 j 07:33	11° © 27'14		evening set	617 Jul 14 j 19:16	8° Ω 50'40	
opposition	610 Dec 28 j 05:38	9° 5 24'41	0°26'12	max. Earth dist.	617 Jul 30 j 08:58	9° Ω 48'23	19.40499 AU
min. Earth dist.	610 Dec 28 j 22:53	9° 5 22'48	17.65723 AU		-		
direct	611 Mar 13 j 10:34	7° 5 20'10		conjunction	617 Jul 31 j 11:15	9° £ 52′29	0°39'03
evening set	611 Jun 15 j 21:04	10° © 42'19		minimum elong	617 Jul 31 j 11:15	9° £ 52′29	0°39'03
				morning rise	617 Aug 16 j 23:53	10° Ω 53'51	
conjunction	611 Jul 02 j 16:09	11° © 43'29	0°25'02	retrograde	617 Nov 16 j 22:16	14° Ω 15′20	
minimum elong	611 Jul 02 j 16:09	11° 5 643'29	0°25'02	opposition	618 Jan 29 j 07:25	12° £ 13′00	0°44'24
max. Earth dist.	611 Jul 01 j 18:14	11° 5 540'08	19.63256 AU	min. Earth dist.	618 Jan 30 j 06:31		17.39248 AU
morning rise	611 Jul 19 j 09:35	12° 5 44'28		direct	618 Apr 15 j 05:49	10° Ω 06'56	
retrograde	611 Oct 20 j 03:47	16°904'13		evening set	618 Jul 20 j 00:04	13° Ω 35'30	
opposition	612 Jan 02 j 00:27	14° © 01'43	0°29'26	max. Earth dist.	618 Aug 04 j 11:26	14° £ 33'01	19.38031 AU
min. Earth dist.	612 Jan 02 j 19:34		17.60910 AU				
direct	612 Mar 17 j 05:43	11°956'57		conjunction	618 Aug 05 j 15:01	14° Ω 37'19	0°40'34
evening set	612 Jun 19 j 23:25	15° © 20'15		minimum elong	618 Aug 05 j 15:01	14° Ω 37'19	0°40'34
. ,.	(12 1 1 0(10 10	1.0000110.0	0007151		618 Aug 11 j 16:16	15° Ω	
conjunction	612 Jul 06 j 18:10	16°521'36	0°27'51	morning rise	618 Aug 22 j 02:47	15° Ω 38'41	
minimum elong max. Earth dist.	612 Jul 06 j 18:10	16°521'36	0°27'51	retrograde	618 Nov 21 j 22:00	19° Ω 00'17	0°45'56
	612 Jul 05 j 18:59		19.58622 AU	opposition	619 Feb 03 j 06:34	16° Ω 57'56	17.37025 AU
morning rise	612 Jul 23 j 11:07 612 Oct 24 j 02:59	17° © 22'42 20° © 42'53		min. Earth dist.	619 Feb 04 j 05:34 619 Apr 02 j 14:05	16°8€3526 15°RΩ	17.37023 AU
retrograde opposition	613 Jan 05 j 19:49	20 942 33 18°940'25	0°32'29	direct	619 Apr 02 j 14.03 619 Apr 20 j 07:51	13 κδι 14° Ω 51'41	
min. Earth dist.	613 Jan 06 j 14:59		17.56450 AU	direct	619 May 07 j 22:58	14 8€ 51 41	
direct	613 Mar 22 j 05:27	16°935'26	17.30430 AU	evening set	619 Jul 25 j 04:38	13° 02 18° Ω 20'47	
evening set	613 Jun 25 j 02:34	19° 9 59'49		evening set	017 Jul 25 J 04.50	10 062047	
evening set	015 Juli 25 J 02.54	1) 3) 4)		conjunction	619 Aug 10 j 18:51	19° Ω 22'36	0°41'48
conjunction	613 Jul 11 j 21:00	21° © 01'19	0°30'30	minimum elong	619 Aug 10 j 18:51	19° Ω 22'36	0°41'49
minimum elong	613 Jul 11 j 21:00	21° © 01'19	0°30'30	max. Earth dist.	619 Aug 09 j 16:35	19° Ω 18'29	19.36054 AU
max. Earth dist.	613 Jul 10 j 21:17		19.54316 AU	morning rise	619 Aug 27 j 05:24	20° £ 23′55	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
morning rise	613 Jul 28 j 13:09	22°902'31		retrograde	619 Nov 26 j 22:15	23° Ω 45'33	
retrograde	613 Oct 29 j 00:07	25° © 23'04		opposition	620 Feb 08 j 06:14	21° Ω 43'14	0°47'10
opposition	614 Jan 10 j 16:02	23°520'39	0°35'21	min. Earth dist.	620 Feb 09 j 05:07	21° Ω 40'44	17.35308 AU
min. Earth dist.	614 Jan 11 j 13:02	23°5518'21	17.52315 AU	direct	620 Apr 24 j 09:55	19° Ω 36'51	
direct	614 Mar 27 j 02:47	21° © 15'26		evening set	620 Jul 29 j 09:06	23° Ω 06′21	
evening set	614 Jun 30 j 06:21	24°9540'52			·		
max. Earth dist.	614 Jul 15 j 22:45	25° © 38'32	19.50343 AU	conjunction	620 Aug 14 j 22:13	24° Ω 08'08	0°42'46
				minimum elong	620 Aug 14 j 22:13	24° Ω 08'08	0°42'45
conjunction	614 Jul 17 j 00:11	25°5542'28	0°32'58	max. Earth dist.	620 Aug 13 j 19:21	24° Ω 03'55	19.34615 AU
minimum elong	614 Jul 17 j 00:11	25° 5 642'28	0°32'59	morning rise	620 Aug 31 j 07:49	25° Ω 09'23	
morning rise	614 Aug 02 j 15:42	26° © 43'45		retrograde	620 Nov 30 j 21:29	28° Ω 31′03	
	614 Oct 21 j 03:58	$0^{\circ}\Omega$		opposition	621 Feb 12 j 06:14	26° Ω 28'43	
retrograde	614 Nov 03 j 00:00	0° Ω 04'37		min. Earth dist.	621 Feb 13 j 04:54		17.34164 AU
	614 Nov 15 j 22:03	30°ષ્		direct	621 Apr 29 j 12:17	24° Ω 22'15	
opposition	615 Jan 15 j 12:55	28° © 02'14		evening set	621 Aug 03 j 13:22	27° Ω 52'04	
min. Earth dist.	615 Jan 16 j 09:58		17.48509 AU	max. Earth dist.	621 Aug 19 j 00:23	28° {\ 49'49	19.33765 AU
direct	615 Apr 01 j 03:57	25°\$56'48				200 0 50145	0040105
evening set	615 Jul 05 j 10:18	29° © 23'08		conjunction	621 Aug 20 j 01:36	28° Ω 53'47	0°43'25
Earth diet	615 Jul 15 j 11:14	0°Ω	10 46690 ATT	minimum elong	621 Aug 20 j 01:36	28° Ω 53'47	0°43'25
max. Earth dist.	615 Jul 21 j 02:20	0 862033	19.46689 AU	morning rise	621 Sep 05 j 09:57 621 Sep 06 j 19:06	29° Ω 54'56 0° ™	
conjunction	615 Jul 22 j 03:39	0° Ω 24'51	0°35'14	ratrograda		3° Mp 16'33	
conjunction minimum elong	615 Jul 22 j 03:39 615 Jul 22 j 03:39	0° λ (24'51	0°35'14 0°35'13	retrograde opposition	621 Dec 05 j 21:46 622 Feb 17 j 06:31	1°M) 14'18	0°48'30
morning rise	615 Aug 07 j 18:08	1° Ω 26'10	0 33 13	min. Earth dist.	622 Feb 18 j 04:16		17.33614 AU
retrograde	615 Nov 07 j 22:34	4° Ω 47'19		mm. Lartii dist.	622 Mar 19 j 16:06	30°RΩ	17.55014710
opposition	616 Jan 20 j 10:38	2° Ω 44'57	0°40'24	direct	622 May 04 j 15:19	29° Ω 07'48	
min. Earth dist.	616 Jan 21 j 08:59		17.45034 AU	uncet	622 Jun 18 j 15:04	0° m)	
direct	616 Apr 05 j 03:22	0° Ω 39'18		evening set	622 Aug 08 j 17:32	2° m ₂ 37'50	
evening set	616 Jul 09 j 14:45	4° Ω 06'29		max. Earth dist.	622 Aug 24 j 03:28		19.33534 AU
max. Earth dist.	616 Jul 25 j 04:20		19.43400 AU			4	
	,			conjunction	622 Aug 25 j 04:35	3° m 39'27	0°43'47
conjunction	616 Jul 26 j 07:17	5° Ω 08'15	0°37'16	minimum elong	622 Aug 25 j 04:35	3° m/39'27	0°43'47
minimum elong	616 Jul 26 j 07:17	5° Ω 08'15	0°37'16	morning rise	622 Sep 10 j 11:49	4° m) 40'30	
morning rise	616 Aug 11 j 21:03	6° Ω 09'37		retrograde	622 Dec 10 j 20:40	8° Mp 02'04	
retrograde	616 Nov 11 j 22:33	9° Ω 30'58		opposition	623 Feb 22 j 07:17	5° m 59'52	0°48'54
opposition	617 Jan 24 j 08:39	7° Ω 28'37	0°42'32	min. Earth dist.	623 Feb 23 j 04:40	5° m 57'33	17.33715 AU
min. Earth dist.	617 Jan 25 j 07:00		17.41941 AU	direct	623 May 09 j 17:55	3° My 53'25	
direct	617 Apr 10 j 04:55	5° Ω 22'44		evening set	623 Aug 13 j 21:05	7° m 23'34	

max. Earth dist.	623 Aug 29 j 07:44	8° m) 21'22	19.33960 AU	morning rise	629 Oct 13 j 12:11	7° ≙ 51'15	
	0 3	•		retrograde	630 Jan 12 j 14:41	11° ≏ 11'13	
conjunction	623 Aug 30 j 07:06	8° m 25'03	0°43'51	opposition	630 Mar 27 j 16:33	9° ჲ 10'06	0°41'28
minimum elong	623 Aug 30 j 07:06	8° m 25'03	0°43'50	min. Earth dist.	630 Mar 28 j 05:44	9° £ 08'42	17.49621 AU
morning rise	623 Sep 15 j 13:10	9° m 25'58		direct	630 Jun 12 j 18:04	7° ≏ 05'02	
retrograde	623 Dec 15 j 20:53	12° m 47'27		evening set	630 Sep 16 j 09:35	10° £ 32'51	
opposition	624 Feb 27 j 08:12	10° m 45'23	0°48'48				
min. Earth dist.	624 Feb 28 j 03:59	10° m 43'14	17.34445 AU	conjunction	630 Oct 02 j 11:34	11° ≏ 32'57	0°36'13
direct	624 May 13 j 22:02	8° m 39'03		minimum elong	630 Oct 02 j 11:34	11° ≏ 32'57	0°36'12
evening set	624 Aug 18 j 00:29	12°M)09'12		max. Earth dist.	630 Oct 01 j 21:34	11° ≏ 30'45	19.51505 AU
max. Earth dist.	624 Sep 02 j 10:47	13° Mp 07'00	19.35003 AU	morning rise	630 Oct 18 j 09:48	12° ≏ 32'31	
				retrograde	631 Jan 17 j 11:17	15° ≏ 52'04	
conjunction	624 Sep 03 j 09:21	13° m 10'33	0°43'37	opposition	631 Apr 01 j 17:56	13° ≙ 51'04	0°39'12
minimum elong	624 Sep 03 j 09:21	13° m 10'33	0°43'37	min. Earth dist.	631 Apr 02 j 06:39	13° ≏ 49'43	17.53505 AU
morning rise	624 Sep 19 j 14:15	14° m y 11'20		direct	631 Jun 17 j 18:55	11° ≙ 46′15	
retrograde	624 Dec 19 j 19:09	17° m 32'40		evening set	631 Sep 21 j 08:29	15° ≙ 13'15	
opposition	625 Mar 03 j 09:16	15° m 30'46	0°48'23				
min. Earth dist.	625 Mar 04 j 04:54	15° m 28'38	17.35789 AU	conjunction	631 Oct 07 j 09:14	16° ≙ 13'05	
direct	625 May 19 j 00:39	13° m 24'34		minimum elong	631 Oct 07 j 09:14	16° ≙ 13'05	0°34'05
evening set	625 Aug 23 j 03:29	16° m 54'39		max. Earth dist.	631 Oct 06 j 19:53	16° ≙ 11'00	19.55560 AU
				morning rise	631 Oct 23 j 06:42	17° ≙ 12'25	
conjunction	625 Sep 08 j 11:12	17° m 55'50	0°43'05	retrograde	632 Jan 22 j 10:03	20° ≙ 31'30	
minimum elong	625 Sep 08 j 11:12	17° m 55'50	0°43'05	opposition	632 Apr 05 j 18:46	18° ≏ 30'34	0°36'41
max. Earth dist.	625 Sep 07 j 13:58	17° m 52'29	19.36635 AU	min. Earth dist.	632 Apr 06 j 05:07	18° ≙ 29'29	17.57713 AU
morning rise	625 Sep 24 j 15:00	18° m 56'27		direct	632 Jun 21 j 22:15	16° ≙ 25'59	
retrograde	625 Dec 24 j 19:20	22° m 17'36		evening set	632 Sep 25 j 06:26	19° ≙ 52'07	
opposition	626 Mar 08 j 10:35	20° m 15'53	0°47'37				
min. Earth dist.	626 Mar 09 j 04:21	20° m 13'58	17.37674 AU	conjunction	632 Oct 11 j 06:18	20° ≙ 51'40	0°31'44
direct	626 May 24 j 05:28	18° m 09'54		minimum elong	632 Oct 11 j 06:18	20° ≏ 51'40	0°31'44
evening set	626 Aug 28 j 05:56	21° m 39'45		max. Earth dist.	632 Oct 10 j 19:45		19.59929 AU
				morning rise	632 Oct 27 j 02:43	21° ≏ 50'45	
conjunction	626 Sep 13 j 12:29	22° m 40'45	0°42'16	retrograde	633 Jan 26 j 05:18	25° ≏ 09'19	
minimum elong	626 Sep 13 j 12:30	22° m 40'45	0°42'16	opposition	633 Apr 10 j 19:16	23° ഫ 08'28	0°33'57
max. Earth dist.	626 Sep 12 j 16:40	~	19.38771 AU	min. Earth dist.	633 Apr 11 j 04:48		17.62234 AU
morning rise	626 Sep 29 j 15:02	23° Mp 41'11		direct	633 Jun 26 j 22:57	21° ≏ 04'08	
retrograde	626 Dec 29 j 17:17	27° Mg 02'08		evening set	633 Sep 30 j 03:36	24° ≏ 29'18	
opposition	627 Mar 13 j 12:12	25° m, 00'35	0°46'33				
min. Earth dist.	627 Mar 14 j 05:53	24° m 58'41	17.40052 AU	conjunction	633 Oct 16 j 02:17	25° £ 28'33	0°29'11
direct	627 May 29 j 08:06	22° m 54'49		minimum elong	633 Oct 16 j 02:17	25° ≏ 28'33	0°29'11
evening set	627 Sep 02 j 07:54	26° Mp 24'20		max. Earth dist.	633 Oct 15 j 16:34		19.64628 AU
				morning rise	633 Oct 31 j 22:01	26° ≏ 27'23	
conjunction	627 Sep 18 j 13:13	27° m 25'08	0°41'09	retrograde	634 Jan 31 j 02:16	29° ≏ 45'25	
minimum elong	627 Sep 18 j 13:13	27° m 25'08	0°41'10	opposition	634 Apr 15 j 19:25	27° ≏ 44'36	
max. Earth dist.	627 Sep 17 j 18:21		19.41382 AU	min. Earth dist.	634 Apr 16 j 02:30		17.67104 AU
morning rise	627 Oct 04 j 14:44	28° m/25'23		direct	634 Jul 02 j 01:26	25° ≙ 40'31	
_	627 Nov 01 j 05:13	0∘ ⊽		evening set	634 Oct 04 j 23:28	29° ≙ 04'39	
retrograde	628 Jan 03 j 17:19	1° ≏ 46'03			634 Oct 19 j 22:00	0° M	
,	628 Mar 11 j 14:14	30°R, M)	0045100		(24.0 + 20 : 21.12	Oom carac	0026120
opposition	628 Mar 17 j 13:38	29° Mp 44'39		conjunction	634 Oct 20 j 21:19	0°M03'38	
min. Earth dist.	628 Mar 18 j 05:13	•	17.42868 AU	minimum elong	634 Oct 20 j 21:19	0°M03'38	0°26'29
direct	628 Jun 02 j 12:36	27° m 39'07		max. Earth dist.	634 Oct 20 j 14:54		19.69673 AU
	628 Aug 18 j 00:12	0∘ ⊽		morning rise	634 Nov 05 j 16:06	1°M02'11	
evening set	628 Sep 06 j 09:08	1° ഫ 08'11		retrograde	635 Feb 04 j 20:16	4°M19'41	0027154
aoniwti	600 Carr 00 : 10 04	20 0 00146	0920146	opposition	635 Apr 20 j 19:13	2°M18'56	
conjunction	628 Sep 22 j 13:24	2° ₽ 08'46		min. Earth dist.	635 Apr 21 j 00:45		17.72321 AU
minimum elong	628 Sep 22 j 13:24	2° £ 08'46	0°39'46	direct	635 Jul 07 j 01:54	0°M15'09	
max. Earth dist.	628 Sep 21 j 20:24		19.44395 AU	evening set	635 Oct 09 j 18:39	3°M38'11	
morning rise	628 Oct 08 j 13:44	3° <u>ჲ</u> 08'48		aanimati	625 Oct 05:15:00	10m 20150	0022127
retrograde	629 Jan 07 j 14:49	6° £ 29'09	0.043127	conjunction	635 Oct 25 j 15:23	4°M36'52	
opposition	629 Mar 22 j 15:15	4° Ω 27'54		minimum elong	635 Oct 25 j 15:23	4°M36'52	
min. Earth dist.	629 Mar 23 j 06:42		17.46069 AU	max. Earth dist.	635 Oct 25 j 10:05		19.75079 AU
direct	629 Jun 07 j 14:09	2° <u>Ω</u> 22'36		morning rise	635 Nov 10 j 09:37	5°M35'10	
evening set	629 Sep 11 j 09:48	5° £ 51′05		retrograde	636 Feb 09 j 15:24	8°M52'06	0924127
	(20 G- 27 : 12 45	(0.0 5110 5	0020107	opposition	636 Apr 24 j 18:15	6°M51'26	
conjunction	629 Sep 27 j 12:47		0°38'07	min. Earth dist.	636 Apr 24 j 21:23		17.77913 AU
minimum elong	629 Sep 27 j 12:47	6° £ 51′26		direct	636 Jul 11 j 01:58	4°M47'59	
max. Earth dist.	629 Sep 26 j 20:24	o- <u>44</u> 8/52	19.47783 AU	evening set	636 Oct 13 j 12:42	8°M09'55	

conjunction	636 Oct 29 j 08:45	9° ™ 08'18	0°20'37	morning rise	641 Dec 06 j 01:42	2° ∡ 16'56	
minimum elong	636 Oct 29 j 08:45	9° M 08'18	0°20'38	retrograde	642 Mar 07 j 19:28	5° ∡ ³30'37	
max. Earth dist.	636 Oct 29 j 06:39	9° ™ 07'59	19.80843 AU	opposition	642 May 23 j 01:59	3° ∡ ¹30'56	0°03'05
morning rise	636 Nov 14 j 02:11	10°ML06'20		min. Earth dist.	642 May 22 j 18:10	3° ₹ 31'44	18.16284 AU
retrograde	637 Feb 13 j 08:54	13°ML22'42		direct	642 Aug 08 j 06:37	1° ₹ ¹29'58	
opposition	637 Apr 29 j 16:56	11°ML22'11	0°21'14	evening set	642 Nov 09 j 06:49	4° × ⁷ 44'53	
min. Earth dist.			17.83827 AU	evening set	042 NOV 09 J 00.49	4 7 44 33	
	637 Apr 29 j 18:06		17.03027 AU		(40.3) 04:00.47	50 7 41122	0001100
direct	637 Jul 16 j 01:12	9° ™ 19'07		conjunction	642 Nov 24 j 22:47	5° х 41′32	
evening set	637 Oct 18 j 05:57	12°M39'55		minimum elong	642 Nov 24 j 22:49	5° ∡ '41'32	0°01'08
				behind sun begin	642 Nov 24 j 16:17	5° ∡ 740'34	
conjunction	637 Nov 03 j 00:59	13°M37'59	0°17'32	behind sun end	642 Nov 25 j 05:21	5° ∡¹ 42'30	
minimum elong	637 Nov 03 j 00:59	13°M37'59	0°17'32	max. Earth dist.	642 Nov 25 j 08:07	5° ∡ ¹42'56	20.19585 AU
max. Earth dist.	637 Nov 03 j 00:08	13°M37'52	19.86915 AU	morning rise	642 Dec 10 j 13:50	6° ≯ ³38'05	
morning rise	637 Nov 18 j 17:58	14°M35'46		retrograde	643 Mar 12 j 11:02	9° ∡ 751'14	
	637 Nov 25 j 12:50	15° M ₊		desc. node	643 Mar 27 j 06:06	9° х 45'41	
retrograde	638 Feb 18 j 02:31	17°ML51'36		opposition	643 May 27 j 21:10	7° × 751'41	0°00'37
-		15°ML51'14	0017142	* *			
opposition	638 May 04 j 15:05			min. Earth dist.	643 May 27 j 11:08		18.22821 AU
min. Earth dist.	638 May 04 j 14:10		17.90040 AU	direct	643 Aug 13 j 01:14	5° ∡ ′51′08	
	638 May 25 j 20:27	15°RM		evening set	643 Nov 13 j 19:05	9° ҂ 04'50	
direct	638 Jul 20 j 22:54	13°M48'34					
	638 Sep 12 j 10:09	15° ™		conjunction	643 Nov 29 j 10:34	10° ₹ 01'14	-0°02'17
evening set	638 Oct 22 j 22:10	17°ML08'13		minimum elong	643 Nov 29 j 10:34	10° ∡ *01'14	0°02'17
•	· ·			behind sun begin	643 Nov 29 j 04:02	10° ₹ '00'16	
conjunction	638 Nov 07 j 16:36	18° M L06'00	0°14'21	behind sun end	643 Nov 29 j 17:06	10° ∡ 02'11	
minimum elong	638 Nov 07 j 16:36	18°ML06'00	0°14'21	max. Earth dist.	643 Nov 29 j 20:49		20.26055 AU
_	638 Nov 07 j 10:30		0 1421		643 Dec 15 j 01:30	10° × 02 40	20.20033 AO
behind sun begin	•	18°M05'32		morning rise	•		
behind sun end	638 Nov 07 j 19:47	18°M.06'29		retrograde	644 Mar 16 j 00:56	14° ∡ 10′10	
max. Earth dist.	638 Nov 07 j 18:49		19.93249 AU	opposition	644 May 31 j 15:35	12° ∡ 10'43	
morning rise	638 Nov 23 j 08:57	19°M03'31		min. Earth dist.	644 May 31 j 04:57	12° ≯ 11'48	18.29229 AU
retrograde	639 Feb 22 j 19:45	22°M18'49		direct	644 Aug 16 j 17:33	10° ∡ 10′30	
opposition	639 May 09 j 12:39	20°M18'37	0°14'08	evening set	644 Nov 17 j 06:26	13° ∡ °23′01	
min. Earth dist.	639 May 09 j 09:37	20°M18'56	17.96464 AU				
direct	639 Jul 25 j 20:47	18°M16'24		conjunction	644 Dec 02 j 21:38	14° ₹ 19'10	-0°05'35
evening set	639 Oct 27 j 13:34	21°MJ34'52		minimum elong	644 Dec 02 j 21:39	14° ₹ 19'10	
evening see	057 OCC 27 J 15.51	21 1103 132		behind sun begin	644 Dec 02 j 15:21	14° × 18'14	0 03 3 1
agniumation	620 Nov. 12 : 07:12	22°M32'22	0°11'06	behind sun end	•	14° × 20'05	
conjunction	639 Nov 12 j 07:12				644 Dec 03 j 03:57		20 22270 ATT
minimum elong	639 Nov 12 j 07:12	22°M32'22	0°11'07	max. Earth dist.	644 Dec 03 j 09:37		20.32378 AU
behind sun begin	639 Nov 12 j 02:15	22°M31'37		morning rise	644 Dec 18 j 12:26	15° ∡ 15'16	
behind sun end	639 Nov 12 j 12:09	22°M33'06		retrograde	645 Mar 20 j 15:31	18° ₹ ′27′20	
max. Earth dist.	639 Nov 12 j 10:36	22°M32'52	19.99757 AU	opposition	645 Jun 05 j 09:20	16° ∡ ¹27'58	-0°07'55
morning rise	639 Nov 27 j 23:15	23°M29'38		min. Earth dist.	645 Jun 04 j 20:26	16° ∡ "29′16	18.35454 AU
retrograde	640 Feb 27 j 12:00	26°M44'24		direct	645 Aug 21 j 10:40	14° ∡ °28′05	
opposition	640 May 13 j 09:41	24°M44'22	0°10'29	evening set	645 Nov 21 j 16:57	17° ∡ ³39'24	
min. Earth dist.	640 May 13 j 05:07		18.03037 AU	· ·	,		
direct	640 Jul 29 j 16:17	22°M42'34		conjunction	645 Dec 07 j 07:48	18° ∡ ³35'18	-0°08'48
evening set	640 Oct 31 j 04:07	25°M59'52		minimum elong	645 Dec 07 j 07:47	18° ∡ ³35'18	
evening set	040 Oct 31 J 04.07	23 11639 32		_			0 0848
	(10.37 15:01.10	2.60W 55105	000=140	behind sun begin	645 Dec 07 j 02:07	18° ∡ ³34′28	
conjunction	640 Nov 15 j 21:12	26°M57'05		behind sun end	645 Dec 07 j 13:28	18° ∡ ³36′08	
minimum elong	640 Nov 15 j 21:12	26°M57'05	0°07'48	max. Earth dist.	645 Dec 07 j 20:54	18° ≯ '37'15	20.38508 AU
behind sun begin	640 Nov 15 j 15:17	26°M56'12		morning rise	645 Dec 22 j 22:37	19° ₹ 31'12	
behind sun end	640 Nov 16 j 03:08	26°M57′58		retrograde	646 Mar 25 j 04:06	22° ∡ ¹42'44	
max. Earth dist.	640 Nov 16 j 03:13	26°M57'58	20.06367 AU	opposition	646 Jun 10 j 02:31	20° ∡ ¹43'24	-0°11'28
morning rise	640 Dec 01 j 12:45	27°M54'06		min. Earth dist.	646 Jun 09 j 13:09	20° ҂ ¹44'45	18.41504 AU
C	641 Jan 10 j 13:01	0° ∡ ¹		direct	646 Aug 26 j 01:42	18° ∡ ⁴43'49	
retrograde	641 Mar 03 j 04:23	1° × 708'19		evening set	646 Nov 26 j 02:36	21° х 53'56	
. on opiaco	641 Apr 26 j 15:11	30°RM		ovening sec	5 10 110 ¥ 20 J 02.30	21 7 33 30	
• • •			0007140	. ,.	(4(D 11:17.10	220 7 4012 (0011157
opposition	641 May 18 j 06:01	29°M08'28	0°06'48	conjunction	646 Dec 11 j 17:18	22° х 49'36	
min. Earth dist.	641 May 17 j 23:18		18.09659 AU	minimum elong	646 Dec 11 j 17:19	22° х 49'36	U~11'56
direct	641 Aug 03 j 12:46	27° M 07'07		behind sun begin	646 Dec 11 j 12:43	22° ∡ ¹48'56	
	641 Oct 29 j 03:46	0° ∡ ¹		behind sun end	646 Dec 11 j 21:54	22° ₹ ′50′16	
evening set	641 Nov 04 j 17:59	0° х 23′13		max. Earth dist.	646 Dec 12 j 08:06	22° ∡ 751'49	20.44474 AU
				morning rise	646 Dec 27 j 08:10	23° ∡ ¹45′18	
conjunction	641 Nov 20 j 10:23	1° ∡ ′20′09	0°04'31	retrograde	647 Mar 29 j 17:53	26° ₹ '56'18	
minimum elong	641 Nov 20 j 10:23	1° ∡ 120′09	0°04'31	opposition	647 Jun 14 j 18:38	24° ∡ ¹56'59	-0°14'55
behind sun begin	641 Nov 20 j 03:57	1° × 19'12	-	min. Earth dist.	647 Jun 14 j 02:54		18.47388 AU
behind sun end	641 Nov 20 j 16:48	1° × ⁷ 21'06		direct	647 Aug 30 j 17:15	22° × 757'40	2200710
max. Earth dist.	641 Nov 20 j 17:29		20.12993 AU	evening set	647 Nov 30 j 11:31	26° ₹ 06'39	
max. Latui Uist.	071 NOV 20 J 1/.29	1 * 2112	20.12773 AU	evening set	07/ NOV 30 J 11.31	20 X 00 39	

	(47.D 1(:02.02	270 70200	001.510.1	E 41 11 4	(54.1 00:10.20	210740124	20.0107/ ATT
conjunction	647 Dec 16 j 02:03	27° ₹ '02'06 -		max. Earth dist.	654 Jan 09 j 19:29		20.81876 AU
minimum elong	647 Dec 16 j 02:03		0°15'02	morning rise	654 Jan 24 j 12:47	22° る 40'38	
behind sun begin	647 Dec 15 j 23:27	27° ∡ 01'43		retrograde	654 Apr 27 j 20:30	25° ⋜ 48'52	
behind sun end	647 Dec 16 j 04:39	27° ₹ 02′28		opposition	654 Jul 14 j 17:33	23° ⋜ 49'54	-0°35'24
max. Earth dist.	647 Dec 16 j 18:10	27° ∡ °04'30 2	20.50276 AU	min. Earth dist.	654 Jul 13 j 18:53	23° る 52'10	18.84142 AU
morning rise	647 Dec 31 j 17:05	27° ∡ 57′37		direct	654 Sep 29 j 02:17	21° る 52'36	
	648 Feb 09 j 13:52	5°0		evening set	654 Dec 28 j 10:13	24° る 55'03	
retrograde	648 Apr 02 j 04:39	1° る 08'07		•	v		
· ·	648 May 27 j 13:25	30°R <i>≯</i> 7		conjunction	655 Jan 13 j 01:37	25° ⋜ 49'21	-0°33'03
opposition	648 Jun 18 j 10:14	29° ₹ '08'48 -	-0°18'16	minimum elong	655 Jan 13 j 01:37	25° ප් 49'21	
min. Earth dist.	648 Jun 17 j 18:06	29°×10'26		max. Earth dist.	655 Jan 14 j 01:47		20.86264 AU
	-	29 x 10 20 1	16.33133 AU		•	25 3 52 52 26° 3 43'58	20.80204 AU
direct	648 Sep 03 j 06:49			morning rise	655 Jan 28 j 19:13		
	648 Nov 28 j 16:46	0° ろ		retrograde	655 May 02 j 07:10	29° る 51'57	
evening set	648 Dec 03 j 19:41	0° る 17'38		min. Earth dist.	655 Jul 18 j 04:33		18.88337 AU
				opposition	655 Jul 19 j 04:38	27° る 53'03	-0°37'40
conjunction	648 Dec 19 j 10:09	1°る12'52 -	-0°17'59	direct	655 Oct 03 j 12:05	25° る 56'00	
minimum elong	648 Dec 19 j 10:09	1°る12'52	0°17'59	evening set	656 Jan 01 j 15:34	28° る 57'45	
max. Earth dist.	648 Dec 20 j 03:52	1°る15'30 2	20.55953 AU				
morning rise	649 Jan 04 j 01:19	2° る 08'12		conjunction	656 Jan 17 j 07:19	29° る 51'58	-0°35'02
retrograde	649 Apr 06 j 17:53	5° ರ 18'14		minimum elong	656 Jan 17 j 07:19	29° ප 51'58	
min. Earth dist.	649 Jun 22 j 06:18		18.58747 AU	max. Earth dist.	656 Jan 18 j 08:04		20.90234 AU
	649 Jun 23 j 00:55	3° る 18'56 -		max. Earth dist.	656 Jan 19 j 14:33	0°≈	20.70254710
opposition	-		-0 21 30		,		
direct	649 Sep 07 j 20:52	1°る20'11		morning rise	656 Feb 02 j 01:29	0°≈46'31	
evening set	649 Dec 08 j 03:20	4° る 27'00		retrograde	656 May 05 j 15:36	3° ≈ 54'17	
				opposition	656 Jul 22 j 15:30	1°≈55'25	-0°39'45
conjunction	649 Dec 23 j 17:44	5° る 22'03 -	-0°20'50	min. Earth dist.	656 Jul 21 j 16:12		18.92090 AU
minimum elong	649 Dec 23 j 17:44	5° る 22'03	0°20'51		656 Sep 29 j 08:12	30°Ŗる	
max. Earth dist.	649 Dec 24 j 12:53	5° る 24'52 2	20.61499 AU	direct	656 Oct 06 j 19:38	29° る 58'36	
morning rise	650 Jan 08 j 09:09	6° る 17'14			656 Oct 14 j 05:13	0° ≈	
retrograde	650 Apr 11 j 03:21	9° る 26'49		evening set	657 Jan 04 j 20:35	2° ≈ 59'42	
opposition	650 Jun 27 j 15:10	7° る 27'34 -	-0°24'35	8			
min. Earth dist.	650 Jun 26 j 20:13		18.64241 AU	conjunction	657 Jan 20 j 12:46	3°≈53'50	-0°36'49
direct	650 Sep 12 j 08:23	5° පි 29'07	10.04241 AU	minimum elong	657 Jan 20 j 12:46	3°≈53'50	
				C	-		
evening set	650 Dec 12 j 10:16	8° る 34'56		max. Earth dist.	657 Jan 21 j 13:29		20.93751 AU
		_		morning rise	657 Feb 05 j 07:34	4° ≈ 48'20	
conjunction	650 Dec 28 j 00:47	9° る 29'47 -		retrograde	657 May 10 j 01:35	7° ≈ 55'54	
minimum elong	650 Dec 28 j 00:47	9° る 29'47	0°23'34	min. Earth dist.	657 Jul 26 j 01:26	5° ≈ 59'29	18.95359 AU
max. Earth dist.	650 Dec 28 j 21:16	9° る 32'49 2	20.66920 AU	opposition	657 Jul 27 j 01:49	5° ≈ 57'03	-0°41'37
morning rise	651 Jan 12 j 16:32	10° る 24'50		direct	657 Oct 11 j 04:28	4° ≈ 00'24	
retrograde	651 Apr 15 j 15:44	13° ප 34'01		evening set	658 Jan 09 j 01:34	7°≈00'54	
min. Earth dist.	651 Jul 01 j 07:21	11° ප 36'58	18.69574 AU	· ·	,		
opposition	651 Jul 02 j 04:33	11° ප 34'50 -		conjunction	658 Jan 24 j 18:14	7° ≈ 54'59	-0°38'26
direct	651 Sep 16 j 21:06	9° ප 36'40	0 27 32	minimum elong	658 Jan 24 j 18:14	7°≈54'59	
evening set	651 Dec 16 j 16:52	12° る 41'34		max. Earth dist.	658 Jan 25 j 19:15		20.96755 AU
evening set	031 Dec 10 j 10.32	12 041 34				8°≈49'27	20.90733 AU
	(50 I 01:07.20	120 726116	000 (100	morning rise	658 Feb 09 j 13:43		
conjunction	652 Jan 01 j 07:29	13° පි 36'16 -		retrograde	658 May 14 j 09:37	11°≈56'51	
minimum elong	652 Jan 01 j 07:29	13° ⋜ 36'16		opposition	658 Jul 31 j 11:46	9° ≈ 57'58	
max. Earth dist.	652 Jan 02 j 05:12	13° ප 39'27 2	20.72147 AU	min. Earth dist.	658 Jul 30 j 12:22		18.98111 AU
morning rise	652 Jan 16 j 23:37	14° る 31'11		direct	658 Oct 15 j 11:20	8° ≈ 01'26	
retrograde	652 Apr 19 j 00:30	17° る 40'00		evening set	659 Jan 13 j 06:16	11° ≈ 01'24	
opposition	652 Jul 05 j 17:22	15° ප් 40'54 -	-0°30'19				
min. Earth dist.	652 Jul 04 j 20:14	15° ප් 43'01	18.74702 AU	conjunction	659 Jan 28 j 23:33	11° ≈ 55′26	-0°39'51
direct	652 Sep 20 j 06:35	13° る 43'02		minimum elong	659 Jan 28 j 23:33	11° ≈ 55'26	0°39'51
evening set	652 Dec 19 j 23:00	16° ප් 47'03		max. Earth dist.	659 Jan 30 j 00:13	11° ≈ 59'00	20.99257 AU
5 · • • • • • • • • • • • • • • • • • •				morning rise	659 Feb 13 j 19:48	12° ≈ 49'53	
conjunction	653 Jan 04 j 13:49	17° පි 41'36 -	-0°28'37		659 Mar 30 j 14:35	12 ≈ 47 33	
	-			ratra arada			
minimum elong	653 Jan 04 j 13:49	17° る 41'36		retrograde	659 May 18 j 18:59	15°≈57'07	
max. Earth dist.	653 Jan 05 j 12:28	17° る 44'55 2	20.77159 AU	•,,•	659 Jul 08 j 17:39	15°R≈	004414
morning rise	653 Jan 20 j 06:22	18° る 36'24		opposition	659 Aug 04 j 21:05	13°≈58'11	
retrograde	653 Apr 23 j 11:52	21° ろ 44'54		min. Earth dist.	659 Aug 03 j 20:53		19.00356 AU
min. Earth dist.	653 Jul 09 j 06:34	19° る 48'11	18.79578 AU	direct	659 Oct 19 j 19:15	12° ≈ 01'43	
opposition	653 Jul 10 j 05:38	19° ප් 45'52 -	-0°32'57	evening set	660 Jan 17 j 10:51	15° ≈ 01'12	
direct	653 Sep 24 j 17:56	17° る 48'18			660 Jan 17 j 02:18	15° ≈	
evening set	653 Dec 24 j 04:42	20° る 51'30					
-	=			conjunction	660 Feb 02 j 04:44	15° ≈ 55'13	-0°41'04
				conjunction	000100 02 04.44	15 , 4.55 15	0 11 01
conjunction	654 Jan 08 i 19:45	21° る 45'56 -	-0°30'55	-		15°≈55'13	
conjunction minimum elong	654 Jan 08 j 19:45 654 Jan 08 j 19:45	21°る45'56 - 21°る45'56		minimum elong max. Earth dist.	660 Feb 02 j 04:44 660 Feb 03 j 05:40	15° ≈ 55'13	

	((0 F 1 10:01 42	1.60 40140		1	(((X) 1(:00.25	9° ¥ 52'44	
morning rise	660 Feb 18 j 01:43	16° ≈ 49'40		direct	666 Nov 16 j 09:25		
retrograde	660 May 22 j 02:05	19° ≈ 56'46		evening set	667 Feb 13 j 19:18	12° ¥ 50′52	
min. Earth dist.	660 Aug 07 j 06:49	18° ≈ 00'04	19.02118 AU				
opposition	660 Aug 08 j 05:58	17° ≈ 57'45	-0°45'58	conjunction	667 Mar 01 j 18:46	13° ¥ 45′13	-0°43'46
direct	660 Oct 23 j 01:17	16° ≈ 01'21		minimum elong	667 Mar 01 j 18:46	13°) 45′13	0°43'47
evening set	661 Jan 20 j 15:18	19° ≈ 00′24		max. Earth dist.	667 Mar 02 j 17:46	13°) 48′30	21.04266 AU
				morning rise	667 Mar 17 j 22:08	14°) 40′07	
conjunction	661 Feb 05 j 09:50	19° ≈ 54'24	-0°42'04	retrograde	667 Jun 20 j 13:11	17°) 47'31	
minimum elong	661 Feb 05 j 09:50	19° ≈ 54'24	0°42'04	opposition	667 Sep 06 j 11:21	15°) 48′04	-0°48'08
max. Earth dist.	661 Feb 06 j 10:28		21.02803 AU	min. Earth dist.	667 Sep 05 j 14:02		19.03808 AU
morning rise	661 Feb 21 j 07:39	20°≈48'51	21.02003710	direct	667 Nov 20 j 14:18	13° ¥ 51'45	17.03000710
-					3		
retrograde	661 May 26 j 11:19	23°≈55'52	0046157	evening set	668 Feb 18 j 00:55	16° ¥ 50′00	
opposition	661 Aug 12 j 14:25	21° ≈ 56'46					
min. Earth dist.	661 Aug 11 j 14:28		19.03470 AU	conjunction	668 Mar 05 j 01:19	17° ∺ 44'29	
direct	661 Oct 27 j 08:11	20° ≈ 00′22		minimum elong	668 Mar 05 j 01:19	17°) 44'29	
evening set	662 Jan 24 j 19:36	22° ≈ 59'05		max. Earth dist.	668 Mar 05 j 23:56	17°) 47′43	21.03154 AU
				morning rise	668 Mar 21 j 05:34	18° ¥ 39'31	
conjunction	662 Feb 09 j 14:50	23°≈53'06	-0°42'52	retrograde	668 Jun 23 j 21:05	21°) 47'07	
minimum elong	662 Feb 09 j 14:50	23°≈53'06	0°42'53	opposition	668 Sep 09 j 18:28	19° ¥ 47'38	-0°47'31
max. Earth dist.	662 Feb 10 j 15:53		21.03949 AU	min. Earth dist.	668 Sep 08 j 22:44		19.02467 AU
morning rise	662 Feb 25 j 13:30	24°≈47'35	21.037.7110	direct	668 Nov 23 j 18:54	17° ¥ 51'17	17.02.07.110
•	-	27°≈54'34			669 Feb 21 j 07:03	20°) 49'43	
retrograde	662 May 30 j 17:53		0047144	evening set	009 Feb 21 J 07.05	20 X 4943	
opposition	662 Aug 16 j 22:35	25°≈55'22					
min. Earth dist.	662 Aug 15 j 23:37		19.04432 AU	conjunction	669 Mar 09 j 08:23	21° ¥ 44′20	
direct	662 Oct 31 j 13:22	23° ≈ 59′00		minimum elong	669 Mar 09 j 08:23	21°) 44′20	
evening set	663 Jan 29 j 00:04	26° ≈ 57′26		max. Earth dist.	669 Mar 10 j 05:25	21° 米 47'21	21.01590 AU
				morning rise	669 Mar 25 j 13:40	22° ∺ 39'31	
conjunction	663 Feb 13 j 20:05	27° ≈ 51′29	-0°43'28	retrograde	669 Jun 28 j 08:09	25° ∺ 47'22	
minimum elong	663 Feb 13 j 20:05	27° ≈ 51′29	0°43'27	min. Earth dist.	669 Sep 13 j 06:24	23°) 49'44	19.00654 AU
max. Earth dist.	663 Feb 14 j 20:39	27°≈55'00	21.04736 AU	opposition	669 Sep 14 j 01:33	23°) 47'48	-0°46'41
morning rise	663 Mar 01 j 19:39	28° ≈ 46′01		direct	669 Nov 28 j 00:26	21° ¥ 51'22	
8 21	663 Mar 25 j 05:03	0°) €		evening set	670 Feb 25 j 13:38	24°) € 50'03	
retrograde	663 Jun 04 j 03:15	1° ¥ 52'59		evening sec	0701 c 0 2 5 j 15.50	21 7(3003	
retrograde	663 Aug 18 j 15:26	30°R≈		conjunction	670 Mar 13 j 16:00	25° ¥ 44'50	0941140
min Earth diat		•	10.05040 ATT		3	25° H 44'50	
min. Earth dist.	663 Aug 20 j 06:40		19.05040 AU	minimum elong	670 Mar 13 j 16:01		
opposition	663 Aug 21 j 06:09	29°≈53'43	-0°48'16	max. Earth dist.	670 Mar 14 j 12:14		20.99509 AU
direct	663 Nov 04 j 19:08	27° ≈ 57'22		morning rise	670 Mar 29 j 22:15	26°) 40′10	
	664 Jan 15 j 21:32	0° ∀		retrograde	670 Jul 02 j 16:34	29° ∺ 48'15	
evening set	664 Feb 02 j 04:35	0° ¥ 55'37		opposition	670 Sep 18 j 08:47	27°) 48′36	-0°45'36
				min. Earth dist.	670 Sep 17 j 15:31	27° ∺ 50′22	18.98299 AU
conjunction	664 Feb 18 j 01:24	1°) 49′43	-0°43'51	direct	670 Dec 02 j 05:03	25° ¥ 52′03	
minimum elong	664 Feb 18 j 01:24	1°)(49'43	0°43'52	evening set	671 Mar 01 j 20:50	28° ¥ 51′02	
max. Earth dist.	664 Feb 19 j 02:10	1° ¥ 53'16	21.05156 AU	· ·	·		
morning rise	664 Mar 05 j 01:50	2°) 44′20		conjunction	671 Mar 18 j 00:11	29°) 45′58	-0°40'43
retrograde	664 Jun 07 j 09:57	5°) 51′20		minimum elong	671 Mar 18 j 00:11	29°) 45'58	
opposition	664 Aug 24 j 13:43	3° ¥ 52'00	-0°48'35	max. Earth dist.	671 Mar 18 j 18:18		20.96895 AU
min. Earth dist.	664 Aug 23 j 15:18		19.05285 AU	max. Larm dist.	671 Mar 22 j 02:13	29 Λ 46 34 0° Υ	20.70073 AU
		1° ¥ 55'41	19.03263 AU		·	0° Υ 41'29	
direct	664 Nov 07 j 23:48			morning rise	671 Apr 03 j 07:29		
evening set	665 Feb 05 j 09:07	4°) 53′49		retrograde	671 Jul 07 j 03:47	3° Y 49'50	0044:5
		> ·		opposition	671 Sep 22 j 15:51	1°Υ50'03	
conjunction	665 Feb 21 j 06:46	5°) 47′59		min. Earth dist.	671 Sep 21 j 23:33		18.95410 AU
minimum elong	665 Feb 21 j 06:46	5°) 47′59			671 Nov 20 j 08:33	30° ₹ ₩	
max. Earth dist.	665 Feb 22 j 06:53	5° ∺ 51′26	21.05235 AU	direct	671 Dec 06 j 11:37	29° ¥ 53′18	
morning rise	665 Mar 09 j 08:10	6°) 42′40			671 Dec 22 j 11:49	$0^{\circ}\Upsilon$	
retrograde	665 Jun 11 j 19:33	9°){ 49'46		evening set	672 Mar 05 j 04:25	2° Y 52'39	
opposition	665 Aug 28 j 21:05	7° ¥ 50′24	-0°48'40	-	-		
min. Earth dist.	<u> </u>		19.05181 AU	conjunction	672 Mar 21 j 08:51	3° Ƴ 47'47	-0°39'26
direct	665 Aug 27 i 22:19	/* 大 52 41		,			
	665 Aug 27 j 22:19 665 Nov 12 i 04:51		19.00101110	minimum elong	672 Mar 21 i 08:51	3° Y 47'47	0°39'25
evening set	665 Nov 12 j 04:51	5° ¥ 54'04	19.03101710	minimum elong	672 Mar 21 j 08:51	3° Y 47'47 3° Y 50'14	
evening set			17.03101710	max. Earth dist.	672 Mar 22 j 02:00	3° Y 50'14	0°39'25 20.93739 AU
	665 Nov 12 j 04:51 666 Feb 09 j 14:03	5°) 54′04 8°) 52′10		max. Earth dist.	672 Mar 22 j 02:00 672 Apr 06 j 17:03	3° Y 50'14 4° Y 43'28	
conjunction	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36	5° ¥ 54'04 8° ¥ 52'10 9° ¥ 46'26	-0°44'01	max. Earth dist. morning rise retrograde	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36	3°Y50'14 4°Y43'28 7°Y52'06	20.93739 AU
conjunction minimum elong	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36 666 Feb 25 j 12:36	5°\£54'04 8°\£52'10 9°\£46'26 9°\£46'26	-0°44'01 0°44'01	max. Earth dist. morning rise retrograde opposition	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36 672 Sep 25 j 23:10	3°Y50'14 4°Y43'28 7°Y52'06 5°Y52'09	20.93739 AU -0°42'46
conjunction minimum elong max. Earth dist.	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36 666 Feb 25 j 12:36 666 Feb 26 j 12:42	5°\£54'04 8°\£52'10 9°\£46'26 9°\£46'26 9°\£49'52	-0°44'01	max. Earth dist. morning rise retrograde opposition min. Earth dist.	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36 672 Sep 25 j 23:10 672 Sep 25 j 08:45	3°Y50'14 4°Y43'28 7°Y52'06 5°Y52'09 5°Y53'38	20.93739 AU
conjunction minimum elong max. Earth dist. morning rise	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36 666 Feb 25 j 12:36 666 Feb 26 j 12:42 666 Mar 13 j 14:55	5°\£54'04 8°\£52'10 9°\£46'26 9°\£46'26 9°\£49'52 10°\£41'13	-0°44'01 0°44'01	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36 672 Sep 25 j 23:10 672 Sep 25 j 08:45 672 Dec 09 j 16:38	3°Y50'14 4°Y43'28 7°Y52'06 5°Y52'09 5°Y53'38 3°Y55'12	20.93739 AU -0°42'46
conjunction minimum elong max. Earth dist.	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36 666 Feb 25 j 12:36 666 Feb 26 j 12:42 666 Mar 13 j 14:55 666 Jun 16 j 03:00	5°\£54'04 8°\£52'10 9°\£46'26 9°\£46'26 9°\£49'52 10°\£41'13 13°\£48'27	-0°44'01 0°44'01 21.04939 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist.	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36 672 Sep 25 j 23:10 672 Sep 25 j 08:45	3°Y50'14 4°Y43'28 7°Y52'06 5°Y52'09 5°Y53'38	20.93739 AU -0°42'46
conjunction minimum elong max. Earth dist. morning rise	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36 666 Feb 25 j 12:36 666 Feb 26 j 12:42 666 Mar 13 j 14:55 666 Jun 16 j 03:00 666 Sep 01 j 06:50	5°\£54'04 8°\£52'10 9°\£46'26 9°\£46'26 9°\£49'52 10°\£41'13 13°\£48'27	-0°44'01 0°44'01	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36 672 Sep 25 j 23:10 672 Sep 25 j 08:45 672 Dec 09 j 16:38	3°Y50'14 4°Y43'28 7°Y52'06 5°Y52'09 5°Y53'38 3°Y55'12	20.93739 AU -0°42'46
conjunction minimum elong max. Earth dist. morning rise retrograde	665 Nov 12 j 04:51 666 Feb 09 j 14:03 666 Feb 25 j 12:36 666 Feb 25 j 12:36 666 Feb 26 j 12:42 666 Mar 13 j 14:55 666 Jun 16 j 03:00	5°\£54'04 8°\£52'10 9°\£46'26 9°\£46'26 9°\£49'52 10°\£41'13 13°\£48'27	-0°44'01 0°44'01 21.04939 AU 19.04694 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	672 Mar 22 j 02:00 672 Apr 06 j 17:03 672 Jul 10 j 12:36 672 Sep 25 j 23:10 672 Sep 25 j 08:45 672 Dec 09 j 16:38	3°Y50'14 4°Y43'28 7°Y52'06 5°Y52'09 5°Y53'38 3°Y55'12	20.93739 AU -0°42'46 18.91995 AU

minimum elong	673 Mar 25 j 17:49	7° Ƴ 50'15	0°37'57	opposition	679 Oct 25 j 06:16	4° 8 32'29	-0°26'23
max. Earth dist.	673 Mar 26 j 08:53		20.90105 AU	min. Earth dist.	679 Oct 25 j 01:20	_	18.58576 AU
morning rise	673 Apr 11 j 03:07	8° Υ 46'08	20.90103710	direct	680 Jan 07 j 18:54	2° 8 33'32	10.50570110
retrograde	673 Jul 14 j 23:41	11° Y 55'05		evening set	680 Apr 07 j 14:40	5° 8 38'10	
opposition	673 Sep 30 i 06:30	9° Y ′54'56	-0°41'01	0.00000	**************************************		
min. Earth dist.	673 Sep 29 j 17:07		18.88133 AU	conjunction	680 Apr 24 j 03:15	6° 8 35'16	-0°22'30
direct	673 Dec 13 j 23:47	7° Ƴ 57'42		minimum elong	680 Apr 24 j 03:15	6° 8 35'16	0°22'30
evening set	674 Mar 13 j 21:00	10° Ƴ 57'55		max. Earth dist.	680 Apr 24 j 08:14	6° 8 35'59	20.55791 AU
Č	,			morning rise	680 May 10 j 18:32	7° 8 32'49	
conjunction	674 Mar 30 j 03:33	11° Y ′53'28	-0°36'16	retrograde	680 Aug 13 j 09:11	10° 8 44'48	
minimum elong	674 Mar 30 j 03:33	11° Y ′53'28	0°36'16	opposition	680 Oct 28 j 15:30	8° 8 43'37	-0°23'20
max. Earth dist.	674 Mar 30 j 17:48	11° Y ′55'30	20.86033 AU	min. Earth dist.	680 Oct 28 j 12:05	8° 8 43'59	18.52949 AU
morning rise	674 Apr 15 j 13:45	12° Y '49'33		direct	681 Jan 11 j 03:52	6° 8 44'25	
retrograde	674 Jul 19 j 09:15	15° Ƴ 58'49		evening set	681 Apr 12 j 04:28	9° 8 50'01	
opposition	674 Oct 04 j 13:49	13° Y 58'29	-0°39'04				
min. Earth dist.	674 Oct 04 j 02:16	13° Y 59'40	18.83867 AU	conjunction	681 Apr 28 j 17:51	10° 8 47'25	-0°19'40
direct	674 Dec 18 j 05:42	12° Y ′00′58		minimum elong	681 Apr 28 j 17:51	10° 8 47'25	0°19'40
evening set	675 Mar 18 j 06:15	15° Ƴ 01'44		max. Earth dist.	681 Apr 28 j 20:02	10° 8 47'44	20.50093 AU
				morning rise	681 May 15 j 10:02	11° 8 45'13	
conjunction	675 Apr 03 j 13:47	15° Y 57'30		retrograde	681 Aug 17 j 23:16	14° 8 57'47	
minimum elong	675 Apr 03 j 13:48	15° Y 57'30	0°34'23	opposition	681 Nov 02 j 01:14	12° 8 56'31	-0°20'08
max. Earth dist.	675 Apr 04 j 01:49		20.81608 AU	min. Earth dist.	681 Nov 01 j 23:34	_	18.47157 AU
morning rise	675 Apr 20 j 01:02	16° Ƴ 53'49		direct	682 Jan 15 j 13:39	10° 8 57'01	
retrograde	675 Jul 23 j 20:33	20° Y ′03′27		evening set	682 Apr 16 j 19:20	14° 8 03'41	
opposition	675 Oct 08 j 21:23	18° Y ′02'55					
min. Earth dist.	675 Oct 08 j 10:53		18.79281 AU	conjunction	682 May 03 j 09:44	15° 8 01'23	
direct	675 Dec 22 j 12:40	16° Y ′05′07		minimum elong	682 May 03 j 09:44	15° 8 01'23	
evening set	676 Mar 21 j 15:56	19° Ƴ 06'29		max. Earth dist.	682 May 03 j 10:55		20.44197 AU
					682 May 03 j 00:12	15° 8	
conjunction	676 Apr 07 j 00:33	20° Y ′02'30		morning rise	682 May 20 j 02:21	15° 8 59'27	
minimum elong	676 Apr 07 j 00:33	20° Y ′02'30		retrograde	682 Aug 22 j 13:21	19° 8 12'33	
max. Earth dist.	676 Apr 07 j 11:54		20.76869 AU	opposition	682 Nov 06 j 11:24	17° 8 11'14	
morning rise	676 Apr 23 j 12:34	20° ℃ 59'02		min. Earth dist.	682 Nov 06 j 11:27		18.41152 AU
retrograde	676 Jul 27 j 07:14	24° Y ′09'05		direct	683 Jan 19 j 23:58	15° 8 11'26	
opposition	676 Oct 12 j 05:11	22° Y ′08'22		evening set	683 Apr 21 j 11:17	18° 8 19'11	
min. Earth dist.	676 Oct 11 j 20:14		18.74409 AU		(02.14 00:02.20	1001	0012120
direct	676 Dec 25 j 19:42	20° Y 10′17		conjunction	683 May 08 j 02:20	19° 8 17'11	
evening set	677 Mar 26 j 02:27	23° Y 12'22		minimum elong	683 May 08 j 02:20	19° 8 17'11	0°13'40
. ,.	(77 A 11 : 12 O1	2400000120	0020107	behind sun begin behind sun end	683 May 07 j 22:50	19° 8 16'41	
conjunction	677 Apr 11 j 12:01	24° Y 08'38 24° Y 08'38		max. Earth dist.	683 May 08 j 05:50 683 May 08 j 00:13	19° 8 17'41	20.29001 ATT
minimum elong max. Earth dist.	677 Apr 11 j 12:01		20.71893 AU			20° 8 15'31	20.38091 AU
morning rise	677 Apr 11 j 21:03 677 Apr 28 j 01:03	24 1 09 36 25° Υ 05'24	20.71893 AU	morning rise retrograde	683 May 24 j 19:41 683 Aug 27 j 04:34	23° 8 29'12	
retrograde	677 Jul 31 j 19:06	28° Y 15'53		opposition	683 Nov 10 j 22:19	23 8 29 12 21° 8 27'46	0012121
opposition	677 Oct 16 j 13:11	26° Y 15'01	-0°32'00	min. Earth dist.	683 Nov 10 j 22:19		18.34940 AU
min. Earth dist.	677 Oct 16 j 05:23		18.69324 AU	direct	684 Jan 24 j 11:32	19° 8 27'37	10.54740 AC
direct	677 Dec 30 j 02:44	24° Υ 16'38	10.07324 AO	evening set	684 Apr 25 j 03:50	22° 8 36'28	
evening set	678 Mar 30 j 13:41	27° Y 19'29		evening sec	0011pi 23 j 03.30	22 03020	
		=, 11,2,		conjunction	684 May 11 j 19:48	23° 8 34'47	-0°10'30
conjunction	678 Apr 16 j 00:21	28° Y 16′02	-0°27'43	minimum elong	684 May 11 j 19:48	23° 8 34'47	
minimum elong	678 Apr 16 j 00:22	28° Υ 16'02		behind sun begin	684 May 11 j 14:35	23° 8 34'02	-
max. Earth dist.	678 Apr 16 j 08:39		20.66701 AU	behind sun end	684 May 12 j 01:01	23° 8 35'32	
morning rise	678 May 02 j 14:07	29° Y 13′03		max. Earth dist.	684 May 11 j 16:38		20.31763 AU
C	678 May 16 j 21:46	9° 8		morning rise	684 May 28 j 13:28	24° 8 33'22	
retrograde	678 Aug 05 j 07:15	2° 8 23'59		retrograde	684 Aug 30 j 19:46	27° 8 47'37	
opposition	678 Oct 20 j 21:34	0° 8 23'00	-0°29'16	opposition	684 Nov 14 j 09:47	25° 8 46'05	-0°09'47
min. Earth dist.	678 Oct 20 j 15:17	0° 8 23'39	18.64031 AU	min. Earth dist.	684 Nov 14 j 13:26	25° 8 45'42	18.28503 AU
	678 Oct 30 j 03:47	30° ₹ Υ		direct	685 Jan 27 j 23:45	23° 8 45'33	
direct	679 Jan 03 j 10:50	28° Y ′24'21		evening set	685 Apr 29 j 21:36	26° 8 55'32	
	679 Mar 07 j 00:45	0° ႘					
evening set	679 Apr 04 j 01:48	1° 8 28'02		conjunction	685 May 16 j 14:07	27° 8 54'07	-0°07'16
				minimum elong	685 May 16 j 14:07	27° 8 54'07	0°07'16
conjunction	679 Apr 20 j 13:19	2° 8 24'51	-0°25'11	behind sun begin	685 May 16 j 07:56	27° 8 53'14	
minimum elong	679 Apr 20 j 13:19	2° 8 24'51		behind sun end	685 May 16 j 20:18	27° 8 55'01	
max. Earth dist.	679 Apr 20 j 19:03		20.61331 AU	max. Earth dist.	685 May 16 j 07:32		20.25243 AU
morning rise	679 May 07 j 04:00	3° 8 22'08		morning rise	685 Jun 02 j 08:24	28° 8 52'59	
retrograde	679 Aug 09 j 19:55	6° 8 33'35			685 Jun 22 j 16:26	$\Pi^{\circ}0$	

max. Earth dist.

697 Jul 11 j 03:57

21°553'18 19.54527 AU

691 Feb 23 j 16:12

direct

20°**Ⅲ**07'23

1 miletary 1 men	oniona or oranas n						
conjunction	697 Jul 12 j 04:00	21°957'00	0°30'46	minimum elong	703 Aug 11 j 01:23	20° Ω 17'36	0°41'53
minimum elong	697 Jul 12 j 04:00	21° © 57'00	0°30'46	morning rise	703 Aug 27 j 12:03	21° Ω 18'56	
morning rise	697 Jul 28 j 20:12	22° © 58'11		retrograde	703 Nov 27 j 04:47	24° Ω 40'38	
retrograde	697 Oct 29 j 08:20	26°©18'45		opposition	704 Feb 08 j 13:28	22° Ω 38'13	0°47'15
opposition	698 Jan 10 j 23:52	24°©16'18	0°35'38	min. Earth dist.	704 Feb 09 j 12:15	22° Ω 35'44	17.34789 AU
min. Earth dist.	698 Jan 11 j 21:01	24°514'00	17.52445 AU	direct	704 Apr 24 j 16:57	20° Ω 31'48	
direct	698 Mar 27 j 10:18	22°511'06		evening set	704 Jul 29 j 15:35	24° Ω 01'18	
evening set	698 Jun 30 j 13:18	25° © 36'26		max. Earth dist.	704 Aug 14 j 02:03	24° Ω 58'53	19.34110 AU
max. Earth dist.	698 Jul 16 j 05:33	26° © 34'05	19.50383 AU				
				conjunction	704 Aug 15 j 04:47	25° Ω 03'05	0°42'49
conjunction	698 Jul 17 j 07:08	26° © 38'02	0°33'12	minimum elong	704 Aug 15 j 04:47	25° Ω 03'05	0°42'49
minimum elong	698 Jul 17 j 07:08	26° © 38'02	0°33'12	morning rise	704 Aug 31 j 14:30	26° Ω 04'22	
morning rise	698 Aug 02 j 22:41	27° © 39'19		retrograde	704 Dec 01 j 04:52	29° Ω 26′05	
	698 Sep 16 j 21:20	$0^{\circ}\Omega$		opposition	705 Feb 12 j 13:15	27° Ω 23'42	0°48'07
retrograde	698 Nov 03 j 07:30	1° Ω 00′12		min. Earth dist.	705 Feb 13 j 11:32	27° Ω 21'16	17.33686 AU
	698 Dec 21 j 22:41	30° ₹		direct	705 Apr 29 j 18:50	25° Ω 17'12	
opposition	699 Jan 15 j 20:40	28° © 57'46	0°38'15	evening set	705 Aug 03 j 19:51	28° Ω 47'03	
min. Earth dist.	699 Jan 16 j 17:44	28° © 55'28	17.48462 AU	max. Earth dist.	705 Aug 19 j 07:15	29° Ω 44'52	19.33322 AU
direct	699 Apr 01 j 10:55	26°©52'19					
	699 Jun 30 j 13:07	$0^{\circ}\Omega$		conjunction	705 Aug 20 j 08:12	29° Ω 48'47	0°43'26
evening set	699 Jul 05 j 17:19	0° Ω 18'36		minimum elong	705 Aug 20 j 08:12	29° Ω 48'47	0°43'26
max. Earth dist.	699 Jul 21 j 08:59	1° Ω 16′19	19.46558 AU		705 Aug 23 j 07:35	O° Mp	
				morning rise	705 Sep 05 j 16:39	0° ™ 49'58	
conjunction	699 Jul 22 j 10:42	1° Ω 20′18	0°35'26	retrograde	705 Dec 06 j 04:57	4° Mp 11'40	
minimum elong	699 Jul 22 j 10:42	1° Ω 20′18	0°35'27	opposition	706 Feb 17 j 13:37	2°₩09'22	0°48'40
morning rise	699 Aug 08 j 01:15	2° Ω 21'38		min. Earth dist.	706 Feb 18 j 11:07		17.33214 AU
retrograde	699 Nov 08 j 05:48	5° Ω 42'47		direct	706 May 04 j 21:50	0° Mp 02′52	
opposition	700 Jan 20 j 18:15	3° Ω 40′22	0°40'37	evening set	706 Aug 08 j 23:57	3°₩32'57	
min. Earth dist.	700 Jan 21 j 16:46		17.44824 AU	max. Earth dist.	706 Aug 24 j 10:09	4° Mp 30′39	19.33179 AU
direct	700 Apr 05 j 10:35	1° Ω 34'41					
evening set	700 Jul 09 j 21:35	5° Ω 01'48		conjunction	706 Aug 25 j 11:05	4° Mp 34′35	0°43'47
max. Earth dist.	700 Jul 25 j 11:03	5° Ω 59'21	19.43118 AU	minimum elong	706 Aug 25 j 11:05	4° ™ 34'35	0°43'47
				morning rise	706 Sep 10 j 18:28	5° Mg 35′40	
conjunction	700 Jul 26 j 14:13	6° Ω 03'34		retrograde	706 Dec 11 j 04:06	8° m 57'19	
minimum elong	700 Jul 26 j 14:13	6° Ω 03'34	0°37'26	opposition	707 Feb 22 j 14:19	6° Mp 55′08	0°48'53
morning rise	700 Aug 12 j 04:05	7° Ω 04'57		min. Earth dist.	707 Feb 23 j 11:18	6° Mp 52'51	17.33400 AU
retrograde	700 Nov 12 j 05:42	10° Ω 26′20		direct	707 May 10 j 00:03	4° Mp 48′42	
opposition	701 Jan 24 j 16:14	8° Ω 23'53	0°42'43	evening set	707 Aug 14 j 03:42	8°Mp18'54	
min. Earth dist.	701 Jan 25 j 14:32		17.41589 AU				
direct	701 Apr 10 j 12:35	6° Ω 17'58		conjunction	707 Aug 30 j 13:51	9° ™ 20'25	0°43'49
evening set	701 Jul 15 j 02:05	9° Ω 45'51		minimum elong	707 Aug 30 j 13:51	9° ™ 20'25	0°43'49
				max. Earth dist.	707 Aug 29 j 14:47	•	19.33684 AU
conjunction	701 Jul 31 j 18:07	10° Ω 47'41	0°39'12	morning rise	707 Sep 15 j 20:02	10° Mp 21′23	
minimum elong	701 Jul 31 j 18:07	10° Ω 47'41	0°39'12	retrograde	707 Dec 16 j 04:20	13° Mp 42'56	
max. Earth dist.	701 Jul 30 j 15:38	10° Ω 43'33	19.40089 AU	opposition	708 Feb 27 j 15:10	11° m 40'54	0°48'45
morning rise	701 Aug 17 j 06:50	11° Ω 49'04		min. Earth dist.	708 Feb 28 j 10:54		17.34197 AU
_	701 Oct 28 j 19:38	15° Ω		direct	708 May 14 j 04:21	9° т у34'35	
retrograde	701 Nov 17 j 04:39	15° Ω 10'35		evening set	708 Aug 18 j 07:12	13° m 04'48	
	701 Dec 06 j 19:27	15° ŖΩ					
opposition	700 T 20:11:15	100 00000	0044133		700 G 03:::::	1.40***	00.42122
T 41 11 1	702 Jan 29 j 14:49	13° Ω 08′10	0°44'32	conjunction	708 Sep 03 j 16:11	14° Mp 06'11	0°43'33
min. Earth dist.	702 Jan 30 j 14:00	13° Ω 05'38	0°44'32 17.38792 AU	minimum elong	708 Sep 03 j 16:11	14° m 06'11	0°43'33
direct	702 Jan 30 j 14:00 702 Apr 15 j 13:20	13° Ω 05'38 11° Ω 02'02		minimum elong max. Earth dist.	708 Sep 03 j 16:11 708 Sep 02 j 17:36	14° Mp 06'11 14° Mp 02'38	0°43'33
	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46	13° Ω 05'38 11° Ω 02'02 14° Ω 30'34		minimum elong max. Earth dist. morning rise	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15	14° Mp 06'11 14° Mp 02'38 15° Mp 07'00	0°43'33
direct	702 Jan 30 j 14:00 702 Apr 15 j 13:20	13° Ω 05'38 11° Ω 02'02		minimum elong max. Earth dist. morning rise retrograde	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49	14° M 06'11 14° M 02'38 15° M 07'00 18° M 28'26	0°43'33 19.34775 AU
direct evening set	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01	13°\$\O5'38 11°\$\O2'02 14°\$\O30'34 15°\$\Omega\$	17.38792 AU	minimum elong max. Earth dist. morning rise retrograde opposition	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33	0°43'33 19.34775 AU 0°48'18
direct evening set conjunction	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49	13°N05'38 11°N02'02 14°N30'34 15°N	17.38792 AU 0°40'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26	0°43'33 19.34775 AU 0°48'18
direct evening set conjunction minimum elong	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24	17.38792 AU 0°40'41 0°40'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23	0°43'33 19.34775 AU 0°48'18
direct evening set conjunction minimum elong max. Earth dist.	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 04 j 18:12	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N28'06	17.38792 AU 0°40'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26	0°43'33 19.34775 AU 0°48'18
direct evening set conjunction minimum elong max. Earth dist. morning rise	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N28'06 16°N33'47	17.38792 AU 0°40'41 0°40'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31	0°43'33 19.34775 AU 0°48'18 17.35568 AU
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04	13° N05'38 11° N02'02 14° N30'34 15° N32'24 15° N32'24 15° N28'06 16° N33'47 19° N55'26	17.38792 AU 0°40'41 0°40'41 19.37544 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04 703 Feb 03 j 13:53	13° N05'38 11° N02'02 14° N30'34 15° N 15° N32'24 15° N32'24 15° N28'06 16° N33'47 19° N55'26 17° N53'00	17.38792 AU 0°40'41 0°40'41 19.37544 AU 0°46'03	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09 709 Sep 08 j 18:09	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31 18° m 51'44 18° m 51'44	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00 0°43'01
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04 703 Feb 03 j 13:53 703 Feb 04 j 12:39	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N28'06 16°N33'47 19°N55'26 17°N53'00 17°N50'30	17.38792 AU 0°40'41 0°40'41 19.37544 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09 709 Sep 08 j 18:09 709 Sep 07 j 21:04	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31 18° m 51'44 18° m 51'44 18° m 48'24	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04 703 Feb 03 j 13:53 703 Feb 04 j 12:39 703 Apr 20 j 15:24	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N28'06 16°N33'47 19°N55'26 17°N53'00 17°N50'30 15°N46'41	17.38792 AU 0°40'41 0°40'41 19.37544 AU 0°46'03	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09 709 Sep 08 j 18:09 709 Sep 07 j 21:04 709 Sep 24 j 22:02	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31 18° m 51'44 18° m 51'44 18° m 48'24 19° m 52'22	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00 0°43'01
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04 703 Feb 03 j 13:53 703 Feb 04 j 12:39 703 Apr 20 j 15:24 703 Jul 25 j 11:04	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N32'24 15°N32'54 16°N33'47 19°N55'26 17°N50'30 15°N46'41 19°N15'46	17.38792 AU 0°40'41 0°40'41 19.37544 AU 0°46'03 17.36514 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	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09 709 Sep 08 j 18:09 709 Sep 07 j 21:04 709 Sep 24 j 22:02 709 Dec 25 j 03:01	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31 18° m 51'44 18° m 51'44 18° m 48'24 19° m 52'22 23° m 13'36	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00 0°43'01 19.36409 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04 703 Feb 03 j 13:53 703 Feb 04 j 12:39 703 Apr 20 j 15:24	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N32'24 15°N32'54 16°N33'47 19°N55'26 17°N50'30 15°N46'41 19°N15'46	17.38792 AU 0°40'41 0°40'41 19.37544 AU 0°46'03	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	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09 709 Sep 08 j 18:09 709 Sep 07 j 21:04 709 Sep 24 j 22:02 709 Dec 25 j 03:01 710 Mar 08 j 17:48	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31 18° m 51'44 18° m 51'44 18° m 48'24 19° m 52'22 23° m 13'36 21° m 11'53	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00 0°43'01 19.36409 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	702 Jan 30 j 14:00 702 Apr 15 j 13:20 702 Jul 20 j 06:46 702 Jul 28 j 06:01 702 Aug 05 j 21:49 702 Aug 05 j 21:49 702 Aug 04 j 18:12 702 Aug 22 j 09:41 702 Nov 22 j 05:04 703 Feb 03 j 13:53 703 Feb 04 j 12:39 703 Apr 20 j 15:24 703 Jul 25 j 11:04	13°N05'38 11°N02'02 14°N30'34 15°N 15°N32'24 15°N32'24 15°N32'24 15°N32'54 16°N33'47 19°N55'26 17°N50'30 15°N46'41 19°N15'46	17.38792 AU 0°40'41 0°40'41 19.37544 AU 0°46'03 17.36514 AU 19.35532 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	708 Sep 03 j 16:11 708 Sep 02 j 17:36 708 Sep 19 j 21:15 708 Dec 20 j 02:49 709 Mar 03 j 16:24 709 Mar 04 j 11:58 709 May 19 j 07:04 709 Aug 23 j 10:18 709 Sep 08 j 18:09 709 Sep 08 j 18:09 709 Sep 07 j 21:04 709 Sep 24 j 22:02 709 Dec 25 j 03:01	14° m 06'11 14° m 02'38 15° m 07'00 18° m 28'26 16° m 26'33 16° m 24'26 14° m 20'23 17° m 50'31 18° m 51'44 18° m 51'44 18° m 48'24 19° m 52'22 23° m 13'36 21° m 11'53	0°43'33 19.34775 AU 0°48'18 17.35568 AU 0°43'00 0°43'01 19.36409 AU

evening set	710 Aug 28 j 12:59	22° m 35'48		max. Earth dist.	716 Oct 11 j 03:21 716 Oct 27 j 10:22	21° £ 45'33 22° £ 46'17	19.59418 AU
conjunction	710 Sep 13 j 19:39	23° m 36'50	0°42'09	morning rise retrograde	717 Jan 26 j 12:13	26° Ω 04'50	
3		•	0°42'09	-	•		0°33'39
minimum elong	710 Sep 13 j 19:39	23° Mp 36'50		opposition	717 Apr 11 j 02:31	24° £ 03'53	
max. Earth dist.	710 Sep 12 j 23:36	23° m 33'41	19.38515 AU	min. Earth dist.	717 Apr 11 j 12:06		17.61749 AU
morning rise	710 Sep 29 j 22:20	24° m 37'18		direct	717 Jun 27 j 06:55	21° Ω 59'27	
retrograde	710 Dec 30 j 01:03	27° m 58'18		evening set	717 Sep 30 j 10:54	25° ≏ 24'38	
opposition	711 Mar 13 j 19:29	25° m 56'44	0°46'24				
min. Earth dist.	711 Mar 14 j 13:16	•	17.39776 AU	conjunction	717 Oct 16 j 09:41	26° £ 23'55	0°28'54
direct	711 May 29 j 14:39	23° m 50'57		minimum elong	717 Oct 16 j 09:41	26° Ω 23'55	0°28'54
evening set	711 Sep 02 j 14:55	27° m 20'29		max. Earth dist.	717 Oct 16 j 00:12		19.64175 AU
				morning rise	717 Nov 01 j 05:31	27° Ω 22'46	
conjunction	711 Sep 18 j 20:24	28° m 21'18	0°41'01		717 Dec 23 j 12:32	0°M₊	
minimum elong	711 Sep 18 j 20:24	28° m)21'18	0°41'01	retrograde	718 Jan 31 j 09:05	0° ™ 40'48	
max. Earth dist.	711 Sep 18 j 01:31	28° Mp 18'20	19.41074 AU		718 Mar 12 j 11:48	30° Ŗ Ω	
morning rise	711 Oct 04 j 22:04	29° m 21'34		opposition	718 Apr 16 j 02:36	28° ≏ 39'56	
	711 Oct 15 j 13:30	0∘ ত		min. Earth dist.	718 Apr 16 j 09:24	28° ≏ 39'13	17.66700 AU
retrograde	712 Jan 04 j 01:04	2° ≏ 42'17		direct	718 Jul 02 j 07:54	26° ≏ 35'47	
opposition	712 Mar 17 j 21:02	0° ჲ 40'51	0°44'59	evening set	718 Oct 05 j 06:54	29° ჲ 59'58	
min. Earth dist.	712 Mar 18 j 12:47	0° ჲ 39'09	17.42524 AU		718 Oct 05 j 07:09	0° M	
	712 Apr 03 j 01:00	30°₽, Т р					
direct	712 Jun 02 j 19:32	28° Mp 35'16		conjunction	718 Oct 21 j 04:51	0° ™ 58'57	0°26'11
	712 Jul 30 j 21:47	0∘ ত		minimum elong	718 Oct 21 j 04:51	0° M 58'57	0°26'10
evening set	712 Sep 06 j 16:22	2° ഫ 04'20		max. Earth dist.	718 Oct 20 j 22:38	0°M58'00	19.69322 AU
				morning rise	718 Nov 05 j 23:43	1°M57'32	
conjunction	712 Sep 22 j 20:45	3° ჲ 04'56	0°39'36	retrograde	719 Feb 05 j 03:57	5° ™ 15'02	
minimum elong	712 Sep 22 j 20:45	3° ჲ 04'56	0°39'36	opposition	719 Apr 21 j 02:18	3° ™ 14'18	0°27'33
max. Earth dist.	712 Sep 22 j 03:27	3° ჲ 02'13	19.44015 AU	min. Earth dist.	719 Apr 21 j 07:42	3° ™ 13'44	17.72036 AU
morning rise	712 Oct 08 j 21:12	4° ₽ 04'59		direct	719 Jul 07 j 08:29	1°ML10'31	
retrograde	713 Jan 07 j 22:27	7° ჲ 25'20		evening set	719 Oct 10 j 02:03	4°M33'38	
opposition	713 Mar 22 j 22:34	5° ≏ 24'02	0°43'15	•	·		
min. Earth dist.	713 Mar 23 j 14:14	5° ≏ 22'22	17.45655 AU	conjunction	719 Oct 25 j 22:55	5° ™ 32′20	0°23'18
direct	713 Jun 07 j 21:43	3° ≏ 18'40		minimum elong	719 Oct 25 j 22:55	5° ™ 32′20	0°23'19
evening set	713 Sep 11 j 17:09	6° £ 47'10		max. Earth dist.	719 Oct 25 j 17:45	5°M31'32	19.74854 AU
Ü	1 0			morning rise	719 Nov 10 j 17:15	6°M30'39	
conjunction	713 Sep 27 j 20:16	7° - 47'31	0°37'55	retrograde	720 Feb 09 j 23:25	9° M 47'39	
minimum elong	713 Sep 27 j 20:17	7° - 47'31	0°37'55	opposition	720 Apr 25 j 01:24	7°M47'02	0°24'17
max. Earth dist.	713 Sep 27 j 03:50	7° Ω 44'56		min. Earth dist.	720 Apr 25 j 04:12		17.77744 AU
morning rise	713 Oct 13 j 19:48	8° £ 47'21		direct	720 Jul 11 j 08:08	5°M43'37	
retrograde	714 Jan 12 j 21:38	12° ♀ 07'18		evening set	720 Oct 13 j 20:11	9°M05'41	
opposition	714 Mar 27 j 23:57	10° Ω 06'07	0°41'14		, _ v		
min. Earth dist.	714 Mar 28 j 13:17		17.49145 AU	conjunction	720 Oct 29 j 16:20	10°M04'06	0°20'18
direct	714 Jun 13 j 01:39	8° ⊆ 00'58	17.19110110	minimum elong	720 Oct 29 j 16:20	10°M04'06	0°20'18
evening set	714 Sep 16 j 16:52	11° ≏ 28'45		max. Earth dist.	720 Oct 29 j 14:23		19.80726 AU
	,p,			morning rise	720 Nov 14 j 09:50	11°M02'09	
conjunction	714 Oct 02 j 18:58	12° ≏ 28'52	0°36'00	retrograde	721 Feb 13 j 17:04	14°M18'36	
minimum elong	714 Oct 02 j 18:58	12° ≏ 28'52		opposition	721 Apr 30 j 00:04	12°M18'11	0°20'52
max. Earth dist.	714 Oct 02 j 04:51		19.51006 AU	min. Earth dist.	721 Apr 30 j 01:16		17.83752 AU
morning rise	714 Oct 18 j 17:21	13° ≏ 28′28		direct	721 Jul 16 j 07:49	10°M15'11	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
retrograde	715 Jan 17 j 18:24	16° ≏ 47'59		evening set	721 Oct 18 j 13:37	13°M36'08	
opposition	715 Apr 02 j 01:17	14° Ω 46'53	0°38'56	evening sec	,21 out 10 j 15.5 ;	15 116.5000	
min. Earth dist.	715 Apr 02 j 14:11		17.52987 AU	conjunction	721 Nov 03 j 08:46	14° M 34'15	0°17'12
direct	715 Jun 18 j 03:22	12° ≏ 41'58	-,,,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	721 Nov 03 j 08:46	14°M34'15	0°17'12
evening set	715 Sep 21 j 15:52	16° ≏ 08'58		max. Earth dist.	721 Nov 03 j 07:51		19.86877 AU
e vennig see	710 00p 21 j 10.02	10 =0020		man. Bartin diot.	721 Nov 10 j 07:40	15° ™	19.000, 110
conjunction	715 Oct 07 j 16:46	17° ≏ 08'48	0°33'50	morning rise	721 Nov 19 j 01:50	15°M32'03	
minimum elong	715 Oct 07 j 16:46	17° ⊆ 08'48	0°33'50	retrograde	722 Feb 18 j 11:25	18°M47'59	
max. Earth dist.	715 Oct 07 j 03:29	17° ⊆ 06'43		opposition	722 Nay 04 j 22:19	16°M47'44	0°17'21
morning rise	715 Oct 07 j 03:29 715 Oct 23 j 14:22	17 ≥ 0043	17.55050 AU	min. Earth dist.	722 May 04 j 22:19 722 May 04 j 21:18		17.90021 AU
retrograde	716 Jan 22 j 16:24	21° ⊆ 27'13		Zartii dist.	722 Jun 26 j 19:41	15°RM	-,.,5021710
opposition	716 Apr 06 j 01:55	21 = 27 13 19° = 26'11	0°36'24	direct	722 Jul 20 j 19:41 722 Jul 21 j 05:42	14°M45'10	
min. Earth dist.	716 Apr 06 j 12:21		17.57188 AU	anoci	722 Aug 14 j 04:55	15°M	
direct	716 Apr 06 j 12.21 716 Jun 22 j 05:45	19 ≗ 23 03 17° £ 21'29	17.37100 AU	evening set	722 Aug 14 j 04.33 722 Oct 23 j 05:53	18°M04'59	
evening set	716 Sep 25 j 13:49	20° £ 47'37		ovening set	, 22 Oot 23 j 03.33	10 1100437	
evening set	, 10 50p 25 j 15.49	20 — 1 1 3 1		conjunction	722 Nov 08 j 00:26	19° M 02'48	0°14'01
conjunction	716 Oct 11 j 13:49	21° ≏ 47'12	0°31'28	minimum elong	722 Nov 08 j 00:26	19°M02'48	0°14'01
minimum elong	716 Oct 11 j 13:49 716 Oct 11 j 13:50	21° ⊆ 4712 21° ⊆ 47'12		behind sun begin	722 Nov 08 j 00.20 722 Nov 07 j 21:00	19°M02'17	0 1701
mmmum clong	, 10 001 11 5 15.50	21 -7/12	0 51 20	ocimia sun ocgili	,22 110 V 0 / J 21.00	17 110021/	

1 -1	722 N 00 : 02.52	100 M 02110			729 Mar. 16: 00-21	159.70000	
behind sun end max. Earth dist.	722 Nov 08 j 03:52 722 Nov 08 j 02:34	19°M03'19	19.93239 AU	retrograde opposition	728 Mar 16 j 09:21 728 May 31 j 23:28	15° х 09'00 13° х 09'32	0004142
morning rise	722 Nov 08 j 02.34 722 Nov 23 j 16:51	20°ML00'21	19.93239 AU	min. Earth dist.	728 May 31 j 23.28		18.28701 AU
retrograde	722 Nov 23 j 10:51 723 Feb 23 j 03:51	23°M15'45		direct	728 Aug 17 j 01:21	11° × ⁷ 09'15	18.28701 AU
opposition	723 May 09 j 20:02	21°M15'41	0°13'45	evening set	728 Nov 17 j 14:58	14° × ⁷ 21'50	
min. Earth dist.	723 May 09 j 20:02		17.96448 AU	evening set	720 110V 17 J 14.50	14 7 21 30	
direct	723 Jul 26 j 03:53	19°M 13'33	17.50110110	conjunction	728 Dec 03 j 06:16	15° ∡ 18'00	-0°05'57
evening set	723 Oct 27 j 21:35	22°M32'11		minimum elong	728 Dec 03 j 06:16	15°× 18'00	
evening sec	723 OCC 27 J 21:33	22 11032 11		behind sun begin	728 Dec 03 j 00:10	15° × 10'05	0 03 3 7
conjunction	723 Nov 12 j 15:16	23°M29'43	0°10'45	behind sun end	728 Dec 03 j 12:30	15° ∡ 18'55	
minimum elong	723 Nov 12 j 15:16	23°M29'43	0°10'45	max. Earth dist.	728 Dec 03 j 17:56		20.31791 AU
behind sun begin	723 Nov 12 j 10:11	23°M28'57	0 10 15	morning rise	728 Dec 18 j 21:04	16° × 114'07	20.51771110
behind sun end	723 Nov 12 j 20:21	23°M30'28		retrograde	729 Mar 20 j 23:37	19° × ⁷ 26'10	
max. Earth dist.	723 Nov 12 j 18:17		19.99725 AU	opposition	729 Jun 05 j 17:15	17° × ⁷ 26'45	-0°08'20
morning rise	723 Nov 28 j 07:23	24°M27'01	19.99720110	min. Earth dist.	729 Jun 05 j 04:50	17°×728'00	
retrograde	724 Feb 27 j 20:46	27°M41'52		direct	729 Aug 21 j 19:39	15°×726'46	10.5 1010 110
opposition	724 May 13 j 17:01	25°M41'58	0°10'05	evening set	729 Nov 22 j 01:35	18° × ² 38'08	
min. Earth dist.	724 May 13 j 17:01		18.02980 AU	evening sec	725 1101 22 j 01.55	10 % 30 00	
direct	724 Jul 29 j 23:37	23°M40'14	10.02700710	conjunction	729 Dec 07 j 16:28	19° ∡ ³34'02	-0°09'10
evening set	724 Oct 31 j 12:20	26°M57'43		minimum elong	729 Dec 07 j 16:28	19° × ⁷ 34'02	
evening sec	721 Oct 31 j 12.20	20 11037 13		behind sun begin	729 Dec 07 j 10:54	19° × ⁷ 33'13	0 0) 10
conjunction	724 Nov 16 j 05:32	27°M54'57	0°07'27	behind sun end	729 Dec 07 j 22:03	19° × ⁷ 34'51	
minimum elong	724 Nov 16 j 05:32	27°M54'57	0°07'28	max. Earth dist.	729 Dec 08 j 05:14		20.37843 AU
behind sun begin	724 Nov 15 j 23:32	27°M54'04	0 07 20	morning rise	729 Dec 23 j 07:21	20° ∡ 29'57	20.57045710
behind sun end	724 Nov 16 j 11:31	27°M55'51		retrograde	730 Mar 25 j 12:10	23° х 41'28	
max. Earth dist.	724 Nov 16 j 11:09		20.06273 AU	opposition	730 Jun 10 j 10:26	21° × ⁷ 42'02	-0°11'53
morning rise	724 Dec 01 j 21:07	28°M52'00	20.00273710	min. Earth dist.	730 Jun 09 j 21:19		18.40824 AU
morning rise	724 Dec 21 j 19:07	0° ₹		direct	730 Aug 26 j 10:00	19° × ⁷ 42'20	10.10021710
retrograde	725 Mar 03 j 12:34	2° × ⁷ 06'18		evening set	730 Nov 26 j 11:09	22° × 52'30	
opposition	725 May 18 j 13:37	0° ₹ 06'33	0°06'23	evening sec	7501.07 2 0 j 11.07	22 7. 0230	
min. Earth dist.	725 May 18 j 07:22		18.09520 AU	conjunction	730 Dec 12 j 01:57	23° х 48'11	-0°12'19
mm. Dartii dist.	725 May 21 j 05:32	30°RM	10.09320710	minimum elong	730 Dec 12 j 01:56	23° × ⁷ 48'11	0°12'20
direct	725 Aug 03 j 20:16	28°M05'15		behind sun begin	730 Dec 11 j 21:32	23° х 47'32	0 12 20
direct	725 Oct 11 j 18:28	0° ∡ ¹		behind sun end	730 Dec 12 j 06:21	23° х 48'49	
evening set	725 Nov 05 j 02:17	1° × ⁷ 21'30		max. Earth dist.	730 Dec 12 j 16:46		20.43792 AU
evening sec	720 1107 00 J 02.17	1 7. 2130		morning rise	730 Dec 27 j 16:49	24° × ⁷ 43'53	20.10772110
conjunction	725 Nov 20 j 18:43	2° ∡ 18'27	0°04'08	retrograde	731 Mar 30 j 01:14	27° х 54'52	
minimum elong	725 Nov 20 j 18:44	2° × 18'27	0°04'08	min. Earth dist.	731 Jun 14 j 11:07		18.46719 AU
behind sun begin	725 Nov 20 j 12:16	2° × 17'29		opposition	731 Jun 15 j 02:39	25° х 55'28	
behind sun end	725 Nov 21 j 01:12	2° ∡ 19'24		direct	731 Aug 31 j 02:24	23° ∡ 56′03	*
max. Earth dist.	725 Nov 21 j 01:14		20.12799 AU	evening set	731 Nov 30 j 20:13	27° ∡ ¹05'04	
morning rise	725 Dec 06 j 10:07	3° ∡ 15'15			,	_, , , , , , , ,	
retrograde	726 Mar 08 j 04:05	6° ∡ ¹29'01		conjunction	731 Dec 16 j 10:44	28° ∡ ¹00'31	-0°15'22
opposition	726 May 23 j 09:40	4° ∡ ¹29'23	0°02'40	minimum elong	731 Dec 16 j 10:44	28° ∡ ¹00'31	0°15'22
min. Earth dist.	726 May 23 j 02:12		18.16028 AU	behind sun begin	731 Dec 16 j 08:31	28° ∡ ¹00′12	
direct	726 Aug 08 j 13:57	2° ∡ ¹28'27		behind sun end	731 Dec 16 j 12:58	28° ∡ ¹00'51	
evening set	726 Nov 09 j 15:21	5° ∡ ¹43'29		max. Earth dist.	731 Dec 17 j 02:45		20.49632 AU
3	,			morning rise	732 Jan 01 j 01:46	28° ∡ ¹56′03	
conjunction	726 Nov 25 j 07:26	6° ∡ ¹40'10	0°00'45	5 -	732 Jan 20 j 06:03	0° ප	
minimum elong	726 Nov 25 j 07:26	6° ∡ 740′10	0°00'46	retrograde	732 Apr 02 j 12:45	2°る06'32	
behind sun begin	726 Nov 25 j 00:54	6° ∡ ³39'12		opposition	732 Jun 18 j 18:11	0° る 07'10	-0°18'40
behind sun end	726 Nov 25 j 13:58	6° ∡ 741'08		min. Earth dist.	732 Jun 18 j 02:04		18.52529 AU
max. Earth dist.	726 Nov 25 j 16:13		20.19261 AU		732 Jun 21 j 17:09	30°R <i>⊀</i> 7	
morning rise	726 Dec 10 j 22:28	7° ∡ ³36'44		direct	732 Sep 03 j 14:58	28° ₹ '08'02	
desc. node	727 Feb 13 j 04:28	10° ∡ ′30′02			732 Nov 10 j 23:53	0°ಕ	
retrograde	727 Mar 12 j 19:22	10° ∡ ¹49'55		evening set	732 Dec 04 j 04:30	1° る 15'59	
opposition	727 May 28 j 04:51	8° ∡ ¹50'24	-0°01'02	C	,		
min. Earth dist.	727 May 27 j 19:25		18.22429 AU	conjunction	732 Dec 19 j 19:00	2° る 11'13	-0°18'20
direct	727 Aug 13 j 09:28	6° ∡ ¹49'48	-	minimum elong	732 Dec 19 j 19:00	2°る11'13	
evening set	727 Nov 14 j 03:40	10° ∡ ¹03'37		max. Earth dist.	732 Dec 20 j 12:51		20.55396 AU
S	<i>y</i>			morning rise	733 Jan 04 j 10:08	3° ට 06'35	
conjunction	727 Nov 29 j 19:13	11° ∡ ¹00'02	-0°02'40	retrograde	733 Apr 07 j 00:56	6° ප 16'36	
minimum elong	727 Nov 29 j 19:13	11°× 00'02		opposition	733 Jun 23 j 09:02	4°る17'18	-0°21'53
behind sun begin	727 Nov 29 j 12:42	10° ∡ 759'04	-	min. Earth dist.	733 Jun 22 j 14:24		18.58238 AU
behind sun end	727 Nov 30 j 01:45	11° × ⁷ 01'00		direct	733 Sep 08 j 05:16	2°る18'29	
max. Earth dist.	727 Nov 30 j 04:48		20.25594 AU	evening set	733 Dec 08 j 12:07	5° る 25'24	
morning rise	727 Dec 15 j 10:13	11° ∡ 56′23		Č	y		
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conjunction	733 Dec 24 j 02:32	6° ප 20'27	-0°21'10	retrograde	740 May 06 j 01:03	4°≈54'46	
minimum elong	733 Dec 24 j 02:32	6° る 20'27		min. Earth dist.	740 Jul 22 j 01:26		18.91564 AU
max. Earth dist.	733 Dec 24 j 21:37		20.61039 AU	opposition	740 Jul 23 j 00:20	2°≈55'57	
morning rise	734 Jan 08 j 17:59	7° る 15'39	20.01037 110	direct	740 Oct 07 j 04:33	0°≈59'07	0 40 00
retrograde	734 Apr 11 j 11:57	10° る 25'16		evening set	741 Jan 05 j 06:16	4°≈00'21	
opposition	734 Jun 27 j 23:22	8° ਰ 26'02	-0°24'57	evening sec	/ 11 Jun 05 J 00.10	170.0021	
min. Earth dist.	734 Jun 27 j 04:23		18.63823 AU	conjunction	741 Jan 20 j 22:25	4°≈54'30	-0°37'02
direct	734 Sep 12 j 16:23	6° る 27'33	10.03023710	minimum elong	741 Jan 20 j 22:25	4°≈54'30	
evening set	734 Dec 12 j 19:14	9° ප 33'29		max. Earth dist.	741 Jan 21 j 22:44		20.93167 AU
evening sec	751 500 12 3 15.11) 0 332)		morning rise	741 Feb 05 j 17:07	5°≈49'01	20.93107710
conjunction	734 Dec 28 j 09:47	10° පි 28'22	-0°23'53	retrograde	741 May 10 j 11:35	8°≈56'39	
minimum elong	734 Dec 28 j 09:47	10° ろ 28'22	0°23'53	min. Earth dist.	741 Jul 26 j 10:38		18.94716 AU
max. Earth dist.	734 Dec 29 j 06:21		20.66542 AU	opposition	741 Jul 27 j 10:40	6°≈57'48	
morning rise	735 Jan 13 j 01:30	10 3 3124	20.00342 AO	direct	741 Oct 11 j 13:47	5°≈01'06	-0 4131
retrograde	735 Apr 15 j 23:41	11 3 2323		evening set	742 Jan 09 j 11:07	8°≈01'42	
opposition	735 Jul 02 j 12:43	14 3 3239	0°27'53	evening set	742 Jan 09 j 11.07	8 201 42	
min. Earth dist.	735 Jul 02 j 12:45 735 Jul 01 j 15:35		18.69228 AU	conjunction	742 Jan 25 j 03:46	8° ≈ 55'49	0020127
		12 3 35 38 10° る 35'22	18.09228 AU	·			
direct	735 Sep 17 j 04:35			minimum elong	742 Jan 25 j 03:46	8°≈55'49	
evening set	735 Dec 17 j 01:57	13° る 40'23		max. Earth dist.	742 Jan 26 j 04:17		20.96064 AU
	7261 01:16.22	14° る 35'06	0027120	morning rise	742 Feb 09 j 23:12	9°≈50'18	
conjunction	736 Jan 01 j 16:33			retrograde	742 May 14 j 18:25	12°≈57'43	00.42420
minimum elong	736 Jan 01 j 16:33	14°₹35'06		opposition	742 Jul 31 j 20:37	10°≈58'49	
max. Earth dist.	736 Jan 02 j 14:04		20.71829 AU	min. Earth dist.	742 Jul 30 j 21:37		18.97376 AU
morning rise	736 Jan 17 j 08:40	15° る 30'02		direct	742 Oct 15 j 20:38	9°≈02'12	
retrograde	736 Apr 19 j 09:36	18° ⋜ 38'56		evening set	743 Jan 13 j 15:47	12° ≈ 02'14	
min. Earth dist.	736 Jul 05 j 04:45		18.74400 AU				
opposition	736 Jul 06 j 01:48	16° පි 39'53	-0°30'40	conjunction	743 Jan 29 j 09:02	12° ≈ 56'17	
direct	736 Sep 20 j 14:47	14° ろ 42'04		minimum elong	743 Jan 29 j 09:02	12° ≈ 56'17	
evening set	736 Dec 20 j 08:05	17° る 46'13		max. Earth dist.	743 Jan 30 j 09:35		20.98499 AU
				morning rise	743 Feb 14 j 05:12	13° ≈ 50'45	
conjunction	737 Jan 04 j 22:54	18° る 40'47			743 Mar 07 j 20:11	15° ≈	
minimum elong	737 Jan 04 j 22:54	18° る 40'47		retrograde	743 May 19 j 03:58	16° ≈ 57'59	
max. Earth dist.	737 Jan 05 j 21:31		20.76863 AU	min. Earth dist.	743 Aug 04 j 05:45	15° ≈ 01'23	18.99588 AU
morning rise	737 Jan 20 j 15:24	19° る 35'36			743 Aug 04 j 19:37	15°R ≈	
retrograde	737 Apr 23 j 21:19	22° る 44'12		opposition	743 Aug 05 j 05:43	14° ≈ 58'59	-0°44'53
opposition	737 Jul 10 j 14:12	20°る45'15		direct	743 Oct 20 j 04:38	13° ≈ 02'26	
min. Earth dist.	737 Jul 09 j 15:17	20°る47'32	18.79279 AU		743 Dec 29 j 13:55	15° ≈	
direct	737 Sep 25 j 01:36	18° ප් 47'43		evening set	744 Jan 17 j 20:17	16° ≈ 01'58	
evening set	737 Dec 24 j 14:04	21° ප් 51'04					
						16° ≈ 56′00	-0°41'11
	v			conjunction	744 Feb 02 j 14:06		0 11 11
conjunction	738 Jan 09 j 05:04	22° පි 45'31	-0°31'12	conjunction minimum elong	744 Feb 02 j 14:06 744 Feb 02 j 14:06	16° ≈ 56′00	
conjunction minimum elong	738 Jan 09 j 05:04 738 Jan 09 j 05:04	22° ප් 45'31 22° ප් 45'31		•	-		
3	,	22° る 45'31		minimum elong	744 Feb 02 j 14:06		0°41'11
minimum elong	738 Jan 09 j 05:04	22° る 45'31	0°31'12	minimum elong max. Earth dist.	744 Feb 02 j 14:06 744 Feb 03 j 14:54	16° ≈ 59'34	0°41'11
minimum elong max. Earth dist.	738 Jan 09 j 05:04 738 Jan 10 j 04:24	22°පි45'31 22°පි48'55	0°31'12	minimum elong max. Earth dist. morning rise	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03	16°≈59'34 17°≈50'27	0°41'11 21.00492 AU
minimum elong max. Earth dist. morning rise	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04	22°545'31 22°548'55 23°540'14 26°548'34	0°31'12	minimum elong max. Earth dist. morning rise retrograde	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27	0°41'11 21.00492 AU
minimum elong max. Earth dist. morning rise retrograde	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05	22°545'31 22°548'55 23°540'14 26°548'34	0°31'12 20.81564 AU 18.83811 AU	minimum elong max. Earth dist. morning rise retrograde opposition	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27	0°41'11 21.00492 AU -0°46'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46	22° ට 45'31 22° ට 48'55 23° ට 40'14 26° ට 48'34 24° ට 551'55	0°31'12 20.81564 AU 18.83811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45	0°41'11 21.00492 AU -0°46'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09	22° ට 45'31 22° ට 48'55 23° ට 40'14 26° ට 48'34 24° ට 51'55 24° ට 49'41	0°31'12 20.81564 AU 18.83811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57	0°41'11 21.00492 AU -0°46'05
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45	22°G45'31 22°G48'55 23°G40'14 26°G48'34 24°G51'55 24°G49'41 22°G52'26	0°31'12 20.81564 AU 18.83811 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57	0°41'11 21.00492 AU -0°46'05 19.01390 AU
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45	22°G45'31 22°G48'55 23°G40'14 26°G48'34 24°G51'55 24°G49'41 22°G52'26	0°31'12 20.81564 AU 18.83811 AU -0°35'43	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈01'02	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40	22° ට 45'31 22° ට 48'55 23° ට 40'14 26° ට 48'34 24° ට 51'55 24° ට 49'41 22° ට 55'26 25° ට 55'01	0°31'12 20.81564 AU 18.83811 AU -0°35'43	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈55'02 20°≈55'02	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21	0°31'12 20.81564 AU 18.83811 AU -0°35'43	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 05 j 19:00	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈55'02 20°≈55'02	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10
max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03 739 Jan 13 j 11:03 739 Jan 14 j 10:54	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21 26°정49'55	0°31'12 20.81564 AU 18.83811 AU -0°35'43 -0°33'19 0°33'19	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 06 j 19:52 745 Feb 21 j 16:45	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈51'02 20°≈55'02 20°≈55'02 20°≈58'37	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03 739 Jan 13 j 11:03 739 Jan 14 j 10:54 739 Jan 29 j 04:34	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21	0°31'12 20.81564 AU 18.83811 AU -0°35'43 -0°33'19 0°33'19	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 06 j 19:52 745 Feb 21 j 16:45 745 May 26 j 19:38	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈01'02 20°≈55'02 20°≈55'02 20°≈58'37 21°≈49'30 24°≈56'30	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10 21.02113 AU
max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03 739 Jan 13 j 11:03 739 Jan 14 j 10:54 739 Jan 29 j 04:34 739 Mar 17 j 02:30	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21 26°정52'50 27°정44'00	0°31'12 20.81564 AU 18.83811 AU -0°35'43 -0°33'19 0°33'19	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 06 j 19:52 745 Feb 21 j 16:45 745 May 26 j 19:38 745 Aug 12 j 23:07	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈01'02 20°≈55'02 20°≈55'02 20°≈58'37 21°≈49'30 24°≈56'30 22°≈57'19	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10 21.02113 AU
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minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03 739 Jan 13 j 11:03 739 Jan 14 j 10:54 739 Jan 29 j 04:34 739 Mar 17 j 02:30 739 May 02 j 17:27 739 Jun 19 j 22:53 739 Jul 19 j 13:26 739 Jul 18 j 13:40 739 Oct 03 j 20:43 740 Jan 02 j 01:08 740 Jan 02 j 14:27	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21 26°정52'50 27°정44'00 0°≈ 0°≈52'04 30°R℧ 28°정53'14 28°정55'36 26°정56'13 29°정58'06 0°≈	0°31'12 20.81564 AU 18.83811 AU -0°35'43 -0°33'19 0°33'19 20.85896 AU -0°37'57 18.87924 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	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 05 j 19:00 745 Feb 06 j 19:52 745 Feb 21 j 16:45 745 May 26 j 19:38 745 Aug 12 j 23:07 745 Aug 11 j 23:03 745 Oct 27 j 17:29 746 Jan 25 j 04:53 746 Feb 10 j 00:03 746 Feb 10 j 00:03 746 Feb 11 j 01:07 746 Feb 25 j 22:38 746 May 31 j 02:37	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈55'02 20°≈55'02 20°≈58'37 21°≈49'30 24°≈56'30 22°≈57'19 22°≈59'44 21°≈00'51 23°≈59'35 24°≈53'36 24°≈53'36 24°≈53'36 24°≈57'12 25°≈48'05 28°≈55'02	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10 21.02113 AU -0°47'02 19.02831 AU -0°42'56 0°42'55 21.03367 AU
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03 739 Jan 13 j 11:03 739 Jan 14 j 10:54 739 Jan 29 j 04:34 739 Mar 17 j 02:30 739 May 02 j 17:27 739 Jun 19 j 22:53 739 Jul 19 j 13:26 739 Jul 18 j 13:40 739 Oct 03 j 20:43 740 Jan 02 j 01:08 740 Jan 02 j 14:27 740 Jan 17 j 16:48 740 Jan 17 j 16:48	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21 26°정52'50 27°정44'00 0°≈ 0°≈52'04 30°R정 28°정53'14 28°정55'36 26°정56'13 29°정58'06 0°≈	0°31'12 20.81564 AU 18.83811 AU -0°35'43 -0°33'19 0°33'19 20.85896 AU -0°37'57 18.87924 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 evening set	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 05 j 19:00 745 Feb 06 j 19:52 745 Feb 21 j 16:45 745 May 26 j 19:38 745 Aug 12 j 23:07 745 Aug 11 j 23:03 745 Oct 27 j 17:29 746 Jan 25 j 04:53 746 Feb 10 j 00:03 746 Feb 10 j 00:03 746 Feb 11 j 01:07 746 Feb 25 j 22:38 746 May 31 j 02:37 746 Aug 16 j 08:08	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈55'02 20°≈55'02 20°≈58'37 21°≈49'30 24°≈56'30 22°≈57'19 22°≈59'44 21°≈00'51 23°≈59'35 24°≈53'36 24°≈57'12 25°≈48'05 28°≈55'02 26°≈58'05	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10 21.02113 AU -0°47'02 19.02831 AU -0°42'56 0°42'55 21.03367 AU
minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	738 Jan 09 j 05:04 738 Jan 10 j 04:24 738 Jan 24 j 22:04 738 Apr 28 j 06:05 738 Jul 14 j 03:46 738 Jul 15 j 02:09 738 Sep 29 j 10:45 738 Dec 28 j 19:40 739 Jan 13 j 11:03 739 Jan 13 j 11:03 739 Jan 14 j 10:54 739 Jan 29 j 04:34 739 Mar 17 j 02:30 739 May 02 j 17:27 739 Jun 19 j 22:53 739 Jul 19 j 13:26 739 Jul 18 j 13:40 739 Oct 03 j 20:43 740 Jan 02 j 01:08 740 Jan 02 j 14:27	22°정45'31 22°정48'55 23°정40'14 26°정48'34 24°정51'55 24°정49'41 22°정52'26 25°정55'01 26°정49'21 26°정49'21 26°정52'50 27°정44'00 0°≈ 0°≈52'04 30°R정 28°정53'14 28°정55'36 26°정56'13 29°정58'06 0°≈	0°31'12 20.81564 AU 18.83811 AU -0°35'43 -0°33'19 0°33'19 20.85896 AU -0°37'57 18.87924 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	744 Feb 02 j 14:06 744 Feb 03 j 14:54 744 Feb 18 j 11:03 744 May 22 j 10:34 744 Aug 08 j 14:41 744 Aug 07 j 15:39 744 Oct 23 j 10:33 745 Jan 21 j 00:30 745 Feb 05 j 19:00 745 Feb 05 j 19:00 745 Feb 06 j 19:52 745 Feb 21 j 16:45 745 May 26 j 19:38 745 Aug 12 j 23:07 745 Aug 11 j 23:03 745 Oct 27 j 17:29 746 Jan 25 j 04:53 746 Feb 10 j 00:03 746 Feb 10 j 00:03 746 Feb 11 j 01:07 746 Feb 25 j 22:38 746 May 31 j 02:37	16°≈59'34 17°≈50'27 20°≈57'32 18°≈58'27 19°≈00'45 17°≈01'57 20°≈55'02 20°≈55'02 20°≈58'37 21°≈49'30 24°≈56'30 22°≈57'19 22°≈59'44 21°≈00'51 23°≈59'35 24°≈53'36 24°≈53'36 24°≈53'36 24°≈57'12 25°≈48'05 28°≈55'02	0°41'11 21.00492 AU -0°46'05 19.01390 AU -0°42'09 0°42'10 21.02113 AU -0°47'02 19.02831 AU -0°42'56 0°42'55 21.03367 AU

evening set	747 Jan 29 j 09:14	27° ≈ 57'48		max. Earth dist.	753 Mar 10 j 14:39		21.01573 AU
				morning rise	753 Mar 25 j 22:49	23°) 39′30	
conjunction	747 Feb 14 j 05:13	28° ≈ 51'51		retrograde	753 Jun 28 j 16:37	26°) 47′21	
minimum elong	747 Feb 14 j 05:13	28° ≈ 51'51		opposition	753 Sep 14 j 10:41	24°) (47'47	
max. Earth dist.	747 Feb 15 j 06:02		21.04290 AU	min. Earth dist.	753 Sep 13 j 15:39		19.00606 AU
morning rise	747 Mar 02 j 04:41	29° ≈ 46'23		direct	753 Nov 28 j 10:14	22° 米 51′20	
	747 Mar 06 j 06:57	0° \		evening set	754 Feb 25 j 23:02	25° ∺ 50′00	
retrograde	747 Jun 04 j 11:40	2° ¥ 53'19					
opposition	747 Aug 21 j 14:54	0° ¥ 54'00		conjunction	754 Mar 14 j 01:18	26°) 44'47	
min. Earth dist.	747 Aug 20 j 15:06		19.04664 AU	minimum elong	754 Mar 14 j 01:18	26°) 44'47	
	747 Sep 13 j 21:58	30° R ≈		max. Earth dist.	754 Mar 14 j 21:15		20.99428 AU
direct	747 Nov 05 j 04:32	28°≈57'36		morning rise	754 Mar 30 j 07:27	27°) €40'06	
	747 Dec 25 j 06:02	0° ∀			754 May 18 j 23:10	0° Υ	
evening set	748 Feb 02 j 13:40	1° ¥ 55'51		retrograde	754 Jul 03 j 01:07	0° Y 48'10	
					754 Aug 18 j 05:24	30° ₹	
conjunction	748 Feb 18 j 10:23	2°) 49′57		opposition	754 Sep 18 j 17:49	28°) 48′30	
minimum elong	748 Feb 18 j 10:23	2°) 49′57		min. Earth dist.	754 Sep 18 j 00:51		18.98186 AU
max. Earth dist.	748 Feb 19 j 11:14		21.04847 AU	direct	754 Dec 02 j 15:15	26° ¥ 51'55	
morning rise	748 Mar 05 j 10:44	3°) 44′33		evening set	755 Mar 02 j 06:04	29° 升 50′53	
retrograde	748 Jun 07 j 18:53	6° ¥ 51'32			755 Mar 04 j 23:20	0 ° $\mathbf{\Upsilon}$	
opposition	748 Aug 24 j 22:33	4° ¥ 52'11	-0°48'34				
min. Earth dist.	748 Aug 23 j 23:53	4° ₩ 54'27	19.05043 AU	conjunction	755 Mar 18 j 09:22	0° Ƴ 45'49	
direct	748 Nov 08 j 08:44	2° ₩ 55'49		minimum elong	755 Mar 18 j 09:22	0° Ƴ 45'49	0°40'30
evening set	749 Feb 05 j 18:19	5° ¥ 53'57		max. Earth dist.	755 Mar 19 j 03:31	0° Ƴ 48'24	20.96760 AU
				morning rise	755 Apr 03 j 16:34	1° Ƴ 41'18	
conjunction	749 Feb 21 j 15:54	6°) 48′07	-0°44'00	retrograde	755 Jul 07 j 11:45	4° Ƴ 49'38	
minimum elong	749 Feb 21 j 15:54	6°) 48′07	0°44'01	min. Earth dist.	755 Sep 22 j 08:39	2° Y 51′28	18.95258 AU
max. Earth dist.	749 Feb 22 j 16:16	6° ¥ 51'36	21.05057 AU	opposition	755 Sep 23 j 00:57	2° Ƴ 49'49	-0°44'04
morning rise	749 Mar 09 j 17:12	7°) 42′48		direct	755 Dec 06 j 21:00	0° Υ 53'02	
retrograde	749 Jun 12 j 04:31	10° ¥ 49'52		evening set	756 Mar 05 j 13:24	3° Y 52′20	
min. Earth dist.	749 Aug 28 j 06:49	8° ¥ 52'48	19.05059 AU		·		
opposition	749 Aug 29 j 05:53	8° ¥ 50′29	-0°48'37	conjunction	756 Mar 21 j 17:43	4° Ƴ 47'28	-0°39'12
direct	749 Nov 12 j 14:33	6° ¥ 54'09		minimum elong	756 Mar 21 j 17:43	4° Ƴ 47'28	0°39'13
evening set	750 Feb 09 j 23:15	9° ¥ 52'15		max. Earth dist.	756 Mar 22 j 10:53	4° Ƴ 49'55	20.93589 AU
Ü	J			morning rise	756 Apr 07 j 01:51	5° Ƴ 43'08	
conjunction	750 Feb 25 j 21:42	10°) 46′30	-0°43'57	retrograde	756 Jul 10 j 20:28	8° Ƴ 51'45	
minimum elong	750 Feb 25 j 21:42	10°) 46′30	0°43'57	opposition	756 Sep 26 j 08:13	6° Y 51'46	-0°42'30
max. Earth dist.	750 Feb 26 j 21:48	10° ¥ 49'56	21.04866 AU	min. Earth dist.	756 Sep 25 j 17:48	6° Ƴ 53'14	18.91861 AU
morning rise	750 Mar 13 j 23:58	11° ¥ 41'17		direct	756 Dec 10 j 02:37	4° Υ 54'46	
retrograde	750 Jun 16 j 12:07	14°) 48′29		evening set	757 Mar 09 j 21:22	7° Ƴ 54'28	
opposition	750 Sep 02 j 13:14	12°) (49'04	-0°48'26		7. 7. 2. 2. 2. 3	,	
min. Earth dist.	750 Sep 01 j 15:42		19.04658 AU	conjunction	757 Mar 26 j 02:43	8° Ƴ 49'47	-0°37'41
direct	750 Nov 16 j 18:34	10° ¥ 52'46	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	757 Mar 26 j 02:43	8° Ƴ 49'47	
evening set	751 Feb 14 j 04:34	13° ¥ 50'54		max. Earth dist.	757 Mar 26 j 18:06		20.90004 AU
<i>8</i> - 11	, , , , , , , , , , , , , , , , , , ,			morning rise	757 Apr 11 j 11:54	9° Ƴ 45'39	
conjunction	751 Mar 02 j 03:57	14°) 45'15	-0°43'41	retrograde	757 Jul 15 j 07:55	12° Υ 54'35	
minimum elong	751 Mar 02 j 03:57	14°) (45'15		opposition	757 Sep 30 j 15:20	10° Υ 54'25	-0°40'44
max. Earth dist.	751 Mar 03 j 03:05		21.04257 AU	min. Earth dist.	757 Sep 30 j 01:39		18.88083 AU
morning rise	751 Mar 18 j 07:10	15°) 40'09		direct	757 Dec 14 j 08:50	8° Υ 57'09	
retrograde	751 Jun 20 j 22:09	18°) (47'32		evening set	758 Mar 14 j 05:51	11° Υ 57'21	
opposition	751 Sep 06 j 20:15	16°) 48′05	-0°48'01	evening sec	750 Mai 11 j 05.51	11 3721	
min. Earth dist.	751 Sep 05 j 20:15 751 Sep 05 j 22:52		19.03814 AU	conjunction	758 Mar 30 j 12:17	12° Υ 52'53	-0°35'59
direct	751 Nov 21 j 00:12	14°) 51'46	17.03011110	minimum elong	758 Mar 30 j 12:17	12° Υ 52'53	
evening set	752 Feb 18 j 10:20	17° ¥ 50′02		max. Earth dist.	758 Mar 31 j 02:44		20.86043 AU
evening set	732 1 CO 10 j 10.20	17 7(30 02		morning rise	758 Apr 15 j 22:22	13° Y 48'57	20.00043710
conjunction	752 Mar 05 j 10:36	18°) 44'31	-0°43'13	retrograde	758 Jul 19 j 17:06	16° Υ 58'12	
minimum elong	752 Mar 05 j 10:36	18°) (44'31		opposition	758 Oct 04 j 22:42	14° Υ 57'52	-0°38'45
max. Earth dist.	752 Mar 06 j 09:03		21.03165 AU	min. Earth dist.	758 Oct 04 j 10:49		18.83955 AU
morning rise	752 Mar 00 j 09:03 752 Mar 21 j 14:45	19°\(\frac{4}{3}\)	21.05105 AU	direct	758 Dec 18 j 14:29	13° Υ 00'22	10.03733 AU
retrograde	752 Jun 24 j 06:12	22° H 47'08		evening set	759 Mar 18 j 14:57	16° Υ 01'06	
min. Earth dist.	752 Sep 09 j 07:58		19.02472 AU	ovening set	, 57 mai 10 j 14.57	10 10100	
opposition	752 Sep 10 j 07:38 752 Sep 10 j 03:31	20° X 47'39		conjunction	759 Apr 03 j 22:21	16° Ƴ 56'51	-0°34'06
direct	752 Sep 10 j 05.31 752 Nov 24 j 04:34	18° H 51'18	0 7/23	minimum elong	759 Apr 03 j 22:21	16 γ 56 51	0°34'06
evening set	752 Nov 24 j 04.34 753 Feb 21 j 16:21	21° H 49'44		max. Earth dist.	759 Apr 04 j 10:53		20.81776 AU
evening set	,33100 21 3 10.21	21 M+2+4		morning rise	759 Apr 20 j 09:26	10 γ 58 39 17° γ 53'08	20.01//0 AU
conjunction	753 Mar 09 j 17:37	22°) 44'21	-0°42'31	retrograde	759 Jul 24 j 05:23	17 γ 33 08 21° γ ′02'46	
minimum elong	753 Mar 09 j 17:37 753 Mar 09 j 17:38	22° H 44'21		opposition	759 Oct 09 j 06:06	19° Y 02'46	-0°36'34
minimum clong	133 IVIAI U7 J 11.38	22 八 44 21	U 74 JI	оррознин	139 Oct 09 J 00.00	19 02 13	-0 3034

1 -1 1	771 M 26 : 10-50	70T2(120			777 I 06:00:21	206274127	
behind sun end	771 May 26 j 19:50	7° II 36'29	0.12571 ATT	evening set	777 Jun 06 j 08:21	3°524'36	10.75127 ATT
max. Earth dist.	771 May 26 j 02:29	7° П 33'57 20 8° П 34'51	0.125/1 AU	max. Earth dist.	777 Jun 22 j 08:07	4°9022722	19.75127 AU
morning rise	771 Jun 12 j 07:57	8°Д34'31 8°Д35'24			777 Jun 23 j 03:36	496535130	0010120
asc. node	771 Jun 12 j 11:50	8 ДЗЗ 24 11° Д 50'32		conjunction minimum elong	777 Jun 23 j 03:36	4°\$25'20 4°\$25'20	0°19'38 0°19'39
retrograde	771 Sep 14 j 04:57 771 Nov 28 j 07:50)°01'42	morning rise	777 Jul 09 j 22:04	5°\$25'59	0 1939
opposition min. Earth dist.	-	9 ∏ 48 30 0 9° ∏ 47'32 18		retrograde	•	8° 5 44'49	
direct	771 Nov 28 j 16:57 772 Feb 11 j 01:14	9 ∏ 4732 16 7° ∏ 46'38	8.09190 AU	opposition	777 Oct 11 j 00:48 777 Dec 24 j 03:44	6°9542'24	0°23'32
evening set	772 May 13 j 15:18	7 Ⅱ 40 38 10° Ⅱ 59'57		min. Earth dist.	777 Dec 24 j 03:44 777 Dec 24 j 20:36		17.72423 AU
evening set	112 May 13 J 13.16	10 ДЗ937		direct	778 Mar 09 j 04:26	4°\$38'21	17.72423 AU
conjunction	772 May 30 j 09:36	11° ∏ 59′23 0)°03'17	evening set	778 Jun 11 j 09:25	7°959'10	
minimum elong	772 May 30 j 09:36)°03'17	max. Earth dist.	778 Jun 27 j 08:26		19.69771 AU
behind sun begin	772 May 30 j 09:52	11 II 5923 0	05 16	max. Earth dist.	//8 Juli 2/ J 08.20	8 393702	19.09//1 AU
behind sun end	772 May 30 j 02.32 772 May 30 j 16:20	11 ∏ 38 24 12° ∏ 00′22		conjunction	778 Jun 28 j 04:40	9° © 00'07	0°22'42
max. Earth dist.	772 May 30 j 10.20 772 May 29 j 22:26	12 ∏ 00 22 11° ∏ 57'44 20	0.05960 ATT	minimum elong	778 Jun 28 j 04:40	9° 5 00'07	0°22'42
morning rise	772 Jun 16 j 04:29	11 II 57 44 20	0.03800 AU	morning rise	778 Jul 14 j 22:40	10°900'55	0 22 42
retrograde	772 Sep 17 j 22:56	12 Ⅱ 3637 16° Ⅱ 15'11		retrograde	778 Oct 15 j 23:49	10 30 0 33	
opposition	772 Sep 17 j 22:36 772 Dec 01 j 21:25)°05'27	-	778 Dec 28 j 21:35	13 32 0 13	0°26'53
min. Earth dist.	772 Dec 01 j 21.23 772 Dec 02 j 07:28	14 I I 13 01 0		opposition min. Earth dist.	778 Dec 28 j 21.33		0 20 33 17.67193 AU
direct	772 Dec 02 j 07.28 773 Feb 14 j 16:41	14 ∏ 11 30 10	6.02324 AU	direct	779 Mar 14 j 01:30	9° © 13'32	17.07193 AU
evening set	773 May 18 j 12:19	15° II 25'15		evening set	779 Jun 16 j 11:21	12° © 35'32	
evening set	773 May 10 J 12.19	13 1123 13		max. Earth dist.	779 Jul 02 j 08:19		19.64656 AU
agniumation	772 Jun 04 i 06:52	16° Ⅱ 24'58 0)°06'38	max. Earm dist.	//9 Jul 02 J 08.19	13 2033 19	19.04030 AU
conjunction minimum elong	773 Jun 04 j 06:52 773 Jun 04 j 06:52)°06'38	conjunction	779 Jul 03 j 06:21	13° © 36'41	0°25'38
behind sun begin	773 Jun 04 j 00:32	16 ∏ 24'37 0	7 00 38	minimum elong	779 Jul 03 j 06:21	13°936'41	0°25'38
behind sun end	773 Jun 04 j 13:12	16° I I25'53		•	779 Jul 19 j 23:51	13 \$3041 14°\$37'38	0 23 36
max. Earth dist.	-	16 Ⅱ 23 33 16° Ⅱ 22'52 19	0.00260 ATT	morning rise	779 Oct 20 j 19:54	14 937 38 17°957'25	
morning rise	773 Jun 03 j 16:50 773 Jun 21 j 01:59	16 Ⅱ 22 32 15	9.99200 AU	retrograde opposition	780 Jan 02 j 16:22	17 95725 15°955'01	0°30'05
retrograde	773 Sep 22 j 16:36	20° ∏ 41'31		min. Earth dist.	780 Jan 03 j 11:39		17.62217 AU
opposition	773 Dec 06 j 11:37)°09'10	direct	780 Mar 17 j 20:47	13° © 50'25	17.02217 AU
min. Earth dist.	773 Dec 06 j 23:35	18° I 3914 0		evening set	780 Jun 20 j 13:48	17° © 13'34	
direct	774 Feb 19 j 07:44	16° II 36'31	7.90017 AU	max. Earth dist.	780 Jul 06 j 09:25		19.59801 AU
evening set	774 May 23 j 10:03	10 Ⅱ 3031 19° Ⅱ 52'19		max. Earth dist.	780 Jul 00 J 09.23	10 3 11 19	19.39801 AU
evening set	774 May 23 J 10.03	19 11 32 19		conjunction	780 Jul 07 j 08:35	18° © 14'52	0°28'25
conjunction	774 Jun 09 j 05:04	20° ∏ 52'18 0)°09'58	minimum elong	780 Jul 07 j 08:35	18°9514'52	
minimum elong	774 Jun 09 j 05:04)°09'58	morning rise	780 Jul 24 j 01:35	19° © 15'57	0 28 23
behind sun begin	774 Jun 08 j 23:38	20°II51'30	7 07 38	retrograde	780 Oct 24 j 19:19	22°936'08	
behind sun end	774 Jun 09 j 10:29	20° I I53'05		opposition	781 Jan 06 j 11:45	20° © 33'43	0°33'06
max. Earth dist.	774 Jun 08 j 14:35	20° II 50'08 19	9 92844 411	min. Earth dist.	781 Jan 00 j 11:43		17.57483 AU
morning rise	774 Jun 26 j 00:01	21° II 52'19).)20 11 AO	direct	781 Mar 22 j 20:17	18°928'50	17.57405 AC
retrograde	774 Sep 27 j 12:31	25° I 109'36		evening set	781 Jun 25 j 17:01	21°953'03	
opposition	774 Dec 11 j 02:33)°12'52	max. Earth dist.	781 Jul 11 j 11:02		19.55185 AU
min. Earth dist.	774 Dec 11 j 02:33	23° I I05'53 1'		max. Lartii dist.	7013th 11 j 11.02	22 330 40	17.55165 AC
direct	775 Feb 24 j 00:42	21° I I04'09	7.87/11 AC	conjunction	781 Jul 12 j 11:26	22° © 54'31	0°31'02
evening set	775 May 28 j 08:36	24° II 21'11		minimum elong	781 Jul 12 j 11:26	22° 9 54'31	0°31'01
max. Earth dist.	775 Jun 13 j 10:45	25° I 18'53 19	9 86659 ATT	morning rise	781 Jul 29 j 03:40	23° 9 55'42	0 31 01
max. Earth dist.	775 Juli 15 j 10.45	23 11033 1	7.00037710	retrograde	781 Oct 29 j 15:47	27°516'13	
conjunction	775 Jun 14 j 03:39	25° Ⅱ 21'25 0	0°13'15	opposition	782 Jan 11 j 07:55	25°5013'48	0°35'55
minimum elong	775 Jun 14 j 03:39	25° I I21'25 0		min. Earth dist.	782 Jan 12 j 05:20		17.53018 AU
behind sun begin	775 Jun 13 j 23:51	25° I I20'52	, 13 13	direct	782 Mar 27 j 17:46	23°508'37	17.55010110
behind sun end	775 Jun 14 j 07:27	25° I I21'59		evening set	782 Jun 30 j 20:39	26°533'50	
morning rise	775 Jun 30 j 22:36	26° I I21'41		evening sec	702 Juli 30 j 20.37	20 33 30	
retrograde	775 Oct 02 j 07:18	29° I [39'30		conjunction	782 Jul 17 j 14:33	27° © 35'25	0°33'27
opposition	775 Dec 15 j 18:17)°16'30	minimum elong	782 Jul 17 j 14:33		0°33'27
min. Earth dist.	775 Dec 16 j 08:39	27° I 35'31 1'		max. Earth dist.	782 Jul 16 j 12:53		19.50875 AU
direct	776 Feb 28 j 16:28	25° I 33'38	,.050/1710	morning rise	782 Aug 03 j 06:08	28°936'41	17.50075 AU
evening set	776 Jun 01 j 07:57	28° I I51'56		morning rise	782 Aug 27 j 16:50	0°Ω	
max. Earth dist.	776 Jun 17 j 09:58	29° ∏ 49'49 19	9 80756 AU	retrograde	782 Nov 03 j 15:37	1° Ω 57'30	
man. Lui ui uist.	, 10 Jun 11 J 07.30	2) <u>11</u> 7) 1)	,, 100 / 110	1211051440	783 Jan 14 j 07:18	30°Rூ	
conjunction	776 Jun 18 j 03:17	29° Ⅱ 52'26 0)°16'29	opposition	783 Jan 16 j 04:40	29°\$55'03	0°38'30
minimum elong	776 Jun 18 j 03:17)°16'28	min. Earth dist.	783 Jan 17 j 01:53		17.48873 AU
mminum ciong	776 Jun 20 j 05:19	0°95	, 1020	direct	783 Apr 01 j 19:06	29 3 32 43 27° 5 49'35	17.700/J AU
morning rise	776 Jul 20 j 03:19 776 Jul 04 j 21:58	0°952'53		direct	783 Apr 01 j 19.00 783 Jun 14 j 00:23	27 3 4933	
retrograde	776 Oct 06 j 05:15	୯ ୬୬୪2 ୬୬ 4°911'13		evening set	783 Jul 06 j 00:24	1° Ω 15'42	
opposition	776 Oct 00 j 03:13)°20'04	evening set	, 0.5 Jul 00 j 00.24	1 061342	
min. Earth dist.					702 X 1 22 : 17 70	20 0 17122	0025120
mm. Darm uist.	776 Dec 20 i 01·16	7000011111	7 77906 A L L	confilinction	783 [11] 22.4 17.50	/~1/1//	10035130
direct	776 Dec 20 j 01:16 777 Mar 04 j 11:21	2°507'11 1′ 0°505'02	7.77906 AU	conjunction minimum elong	783 Jul 22 j 17:50 783 Jul 22 j 17:50	2°Ω17'23 2°Ω17'23	0°35'39 0°35'38

max. Earth dist.	783 Jul 21 j 15:59	2°Ω13'23	19.46898 AU	morning rise	789 Sep 05 j 23:20	1° m 44'23	
morning rise	783 Aug 08 j 08:29	3°Ω18'42	19.40090 AU	retrograde	789 Dec 06 j 11:16	5° Mp 06'03	
retrograde	783 Nov 08 j 13:04	6° Ω 39'47		opposition	790 Feb 17 j 20:44	3° Mp 03'44	0°48'39
opposition	784 Jan 21 j 02:08	4° Ω 37'17	0°40'50	min. Earth dist.	790 Feb 18 j 18:09		17.33372 AU
min. Earth dist.	784 Jan 22 j 00:52		17.45096 AU	direct	790 May 05 j 04:36	0° Mp 57'14	1,1333,2110
direct	784 Apr 05 j 18:21	2°Ω31'33	17.10050110	evening set	790 Aug 09 j 06:31	4° m) 27'15	
evening set	784 Jul 10 j 04:39	5° £ 58'30		evening sec	7,011 ug 0, 1 00.51	, 27 10	
e venning see	70.041 10 9 0 1.25	. 00		conjunction	790 Aug 25 j 17:46	5° m 28'54	0°43'45
conjunction	784 Jul 26 j 21:20	7° Ω 00'15	0°37'37	minimum elong	790 Aug 25 j 17:46	5° m/28'54	
minimum elong	784 Jul 26 j 21:20	7° Ω 00'15	0°37'37	max. Earth dist.	790 Aug 24 j 16:55		19.33349 AU
max. Earth dist.	784 Jul 25 j 18:16	6° £ 56′03	19.43333 AU	morning rise	790 Sep 11 j 01:18	6° m 29'59	
morning rise	784 Aug 12 j 11:17	8° Ω 01'37		retrograde	790 Dec 11 j 11:33	9° m 51'39	
retrograde	784 Nov 12 j 13:00	11° Ω 22'53		opposition	791 Feb 22 j 21:22	7° m ∕49'28	0°48'50
opposition	785 Jan 24 j 23:50	9° Ω 20'21	0°42'54	min. Earth dist.	791 Feb 23 j 18:11	7° m 47'12	17.33566 AU
min. Earth dist.	785 Jan 25 j 22:13	9° Ω 17'55	17.41754 AU	direct	791 May 10 j 07:21	5° m 43'03	
direct	785 Apr 10 j 20:22	7° Ω 14'21		evening set	791 Aug 14 j 10:11	9° m 13'14	
evening set	785 Jul 15 j 08:59	10° Ω 42'04					
max. Earth dist.	785 Jul 30 j 22:39	11° Ω 39'45	19.40216 AU	conjunction	791 Aug 30 j 20:30	10° m 14'46	0°43'46
				minimum elong	791 Aug 30 j 20:30	10° m 14'46	0°43'46
conjunction	785 Aug 01 j 01:05	11° Ω 43'52	0°39'20	max. Earth dist.	791 Aug 29 j 21:33	10° mp 11'10	19.33834 AU
minimum elong	785 Aug 01 j 01:05	11° Ω 43'52	0°39'20	morning rise	791 Sep 16 j 02:48	11° m)15'45	
morning rise	785 Aug 17 j 13:55	12° Ω 45'14		retrograde	791 Dec 16 j 11:35	14° Mp 37′20	
	785 Sep 28 j 18:18	15° Ω		opposition	792 Feb 27 j 22:19	12° m 35'19	0°48'41
retrograde	785 Nov 17 j 11:34	16° Ω 06'39		min. Earth dist.	792 Feb 28 j 18:12	12°M 33'10	17.34314 AU
	786 Jan 07 j 19:36	15° R €		direct	792 May 14 j 10:13	10° m 29'03	
opposition	786 Jan 29 j 22:23	14° Ω 04'06	0°44'41	evening set	792 Aug 18 j 13:53	13° m 59'17	
min. Earth dist.	786 Jan 30 j 21:39	14° Ω 01'34	17.38892 AU				
direct	786 Apr 15 j 20:47	11° Ω 57'53		conjunction	792 Sep 03 j 22:57	15° m 00'41	0°43'28
	786 Jul 13 j 06:31	15° Ω		minimum elong	792 Sep 03 j 22:57	15° m 00'41	0°43'29
evening set	786 Jul 20 j 13:24	15° Ω 26'14		max. Earth dist.	792 Sep 03 j 00:06	14° m 57'05	19.34848 AU
max. Earth dist.	786 Aug 05 j 01:10	16° Ω 23'47	19.37623 AU	morning rise	792 Sep 20 j 04:09	16° m 01'31	
				retrograde	792 Dec 20 j 10:59	19° m 22'59	
conjunction	786 Aug 06 j 04:30	16° Ω 28'03	0°40'47	opposition	793 Mar 03 j 23:29	17° m 21'08	
minimum elong	786 Aug 06 j 04:30	16° Ω 28'03	0°40'47	min. Earth dist.	793 Mar 04 j 19:06		17.35588 AU
morning rise	786 Aug 22 j 16:29	17° Ω 29'25		direct	793 May 19 j 13:34	15° m 15'00	
retrograde	786 Nov 22 j 11:42	20° Ω 50'57		evening set	793 Aug 23 j 17:05	18° m 45'10	
opposition	787 Feb 03 j 21:17	18° Ω 48'24	0°46'09	max. Earth dist.	793 Sep 08 j 03:49	19° m 43'04	19.36365 AU
min. Earth dist.	787 Feb 04 j 19:49		17.36587 AU				
direct	787 Apr 20 j 23:14	16° Ω 42'00		conjunction	793 Sep 09 j 01:04	19° m/46'24	
evening set	787 Jul 25 j 17:42	20° Ω 10'55	10.25605.444	minimum elong	793 Sep 09 j 01:04	19° Mp 46'24	0°42'52
max. Earth dist.	787 Aug 10 j 06:13	21° 3′ 08′41	19.35605 AU	morning rise	793 Sep 25 j 05:04	20° Mp 47'04	
. ,.	707 4 11:00.05	210 012142	0041157	retrograde	793 Dec 25 j 10:40	24° Mp 08'22	00.47100
conjunction	787 Aug 11 j 08:05	21° Ω 12'43		opposition	794 Mar 09 j 00:58	22° Mp 06'40	
minimum elong	787 Aug 11 j 08:05	21° Ω 12'43	0°41'58	min. Earth dist.	794 Mar 09 j 19:07		17.37324 AU
morning rise	787 Aug 27 j 18:51	22° Ω 14'03		direct	794 May 24 j 18:02	20° Mp 00'44	
retrograde	787 Nov 27 j 10:58	25° Ω 35'39	0047!10	evening set	794 Aug 28 j 19:44 794 Sep 13 j 06:00	23° Mp 30'39	10 20225 ATT
opposition min. Earth dist.	788 Feb 08 j 20:39 788 Feb 09 j 19:20	23°Ω33'08	0°47'18 17.34878 AU	max. Earth dist.	774 Sep 13 J 00:00	24 HJ 2829	19.38325 AU
direct	788 Apr 25 j 00:18	23 δι 30 40 21° Ω 26'39	17.57070 AU	conjunction	794 Sep 14 j 02:30	24° m 31'43	0°42'00
evening set	788 Jul 29 j 22:07	24°Ω56'00		minimum elong	794 Sep 14 j 02:30	24° m/31'43	0°42'01
max. Earth dist.	788 Aug 14 j 08:55		19.34215 AU	morning rise	794 Sep 14 j 02:30 794 Sep 30 j 05:20	24 m/31 43 25° m/32'12	J 72 UI
max. Latur dist.	700 Aug 14 J 00.55	23 8633 36	17.54213 AU	retrograde	794 Dec 30 j 08:55	28° m 53'17	
conjunction	788 Aug 15 j 11:26	25° Ω 57'47	0°42'51	opposition	795 Mar 14 j 02:37	26° Mp 51'42	0°46'14
minimum elong	788 Aug 15 j 11:25	25° Ω 57'47	0°42'50	min. Earth dist.	795 Mar 14 j 20:34	-	17.39506 AU
morning rise	788 Aug 31 j 21:16	26° Ω 59'04	0 42 30	direct	795 May 29 j 21:33	24° Mp 45'56	17.57500710
	788 Nov 04 j 07:07	0° m)		evening set	795 Sep 02 j 21:51	28° m 15'32	
retrograde	788 Dec 01 j 11:17	0° m/20'43		max. Earth dist.	795 Sep 18 j 08:18		19.40721 AU
	788 Dec 29 j 00:13	30°R Ω			J 00.10		
opposition	789 Feb 12 j 20:29	28° Ω 18'16	0°48'09	conjunction	795 Sep 19 j 03:28	29° m 16'23	0°40'50
min. Earth dist.	789 Feb 13 j 18:22		17.33811 AU	minimum elong	795 Sep 19 j 03:28	29° Mp 16'23	
direct	789 Apr 30 j 02:50	26°Ω11'43			795 Sep 30 j 17:23	0ಂ ರ	
evening set	789 Aug 04 j 02:20	29° Ω 41'29		morning rise	795 Oct 05 j 05:14	0° ჲ 16'40	
<i>5</i>	789 Aug 09 j 02:32	0° m)		retrograde	796 Jan 04 j 08:10	3° £ 37'27	
	<i>5 3</i> · · · · ·	3		opposition	796 Mar 18 j 03:59	1° ≏ 36'00	0°44'46
conjunction	789 Aug 20 j 14:47	0° m/43'12	0°43'27	min. Earth dist.	796 Mar 18 j 20:05		17.42092 AU
minimum elong	789 Aug 20 j 14:47	0° m/ 43'12			796 Apr 29 j 16:20	30°R Mp	
max. Earth dist.	789 Aug 19 j 14:08		19.33466 AU	direct	796 Jun 03 j 02:18	29° m 30'24	
		-			,	•	

	796 Jul 06 j 18:51	0∘ ⊽		minimum elong	802 Oct 21 j 11:53	1° M .54'19	0°25'52
evening set	796 Sep 06 j 23:22	2° ≏ 59'33		max. Earth dist.	802 Oct 21 j 05:53	1°M53'24	19.68895 AU
max. Earth dist.	796 Sep 22 j 10:02	3° ≏ 57'23	19.43508 AU	morning rise	802 Nov 06 j 06:53	2°M52'55	
				retrograde	803 Feb 05 j 10:41	6°ML10′27	
conjunction	796 Sep 23 j 03:52	4° £ 00'11	0°39'24	opposition	803 Apr 21 j 09:02	4° M 09'41	0°27'12
minimum elong	796 Sep 23 j 03:52	4° ഫ 00'11	0°39'24	min. Earth dist.	803 Apr 21 j 14:17		17.71690 AU
morning rise	796 Oct 09 j 04:28	5° Ω 00'16		direct	803 Jul 07 j 14:40	2°M05'51	
retrograde	797 Jan 08 j 05:33	8° £ 20'41	00.4210.0	evening set	803 Oct 10 j 09:07	5°M29'02	
opposition	797 Mar 23 j 05:36	6° £ 19'21	0°43'00		0000 . 0010000	60 W 0 = 146	0000150
min. Earth dist.	797 Mar 23 j 21:29		17.45078 AU	conjunction	803 Oct 26 j 06:08 803 Oct 26 j 06:07	6°M27'46	0°22'59 0°22'58
direct	797 Jun 08 j 04:42	4° £ 13'56 7° £ 42'30		minimum elong max. Earth dist.	,	6°M27'46 6°M27'00	
evening set max. Earth dist.	797 Sep 12 j 00:03 797 Sep 27 j 10:40		19.46699 AU	morning rise	803 Oct 26 j 01:09 803 Nov 11 j 00:34	7°M26'06	19.74394 AU
max. Earm dist.	797 Sep 27 j 10.40	o ==40 10	19.40099 AU	retrograde	804 Feb 10 j 06:24	10°M43'05	
conjunction	797 Sep 28 j 03:20	8° £ 42'53	0°37'42	opposition	804 Apr 25 j 08:02	8°M42'30	0°23'54
minimum elong	797 Sep 28 j 03:20	8° Ω 42'53	0°37'42	min. Earth dist.	804 Apr 25 j 10:38	8°M42'13	17.77555 AU
morning rise	797 Oct 14 j 02:58	9° £ 42'45	0 37 12	direct	804 Jul 11 j 14:58	6°MJ39'04	17.77555110
retrograde	798 Jan 13 j 04:45	13° ♀ 02'46		evening set	804 Oct 14 j 03:24	10°ML01'11	
opposition	798 Mar 28 j 06:54	11° ഫ 01'31	0°40'58	0.0000			
min. Earth dist.	798 Mar 28 j 20:25		17.48455 AU	conjunction	804 Oct 29 j 23:41	10°ML59'37	0°19'58
direct	798 Jun 13 j 09:03	8° ≏ 56'18		minimum elong	804 Oct 29 j 23:41	10°M59'37	0°19'59
evening set	798 Sep 16 j 23:52	12° ≏ 24'09		max. Earth dist.	804 Oct 29 j 21:54	10°M59'21	19.80610 AU
max. Earth dist.	798 Oct 02 j 11:38	13° ≙ 22'02	19.50281 AU	morning rise	804 Nov 14 j 17:17	11° M 57'41	
					805 Jan 22 j 03:09	15° M ₊	
conjunction	798 Oct 03 j 02:06	13° ≏ 24'18	0°35'45	retrograde	805 Feb 14 j 00:18	15° M 14'08	
minimum elong	798 Oct 03 j 02:06	13° ≏ 24'18	0°35'44		805 Mar 09 j 07:06	15°RM	
morning rise	798 Oct 19 j 00:38	14° ≙ 23'56		opposition	805 Apr 30 j 06:53	13° M .13'44	0°20'29
retrograde	799 Jan 18 j 01:02	17° ≙ 43'30		min. Earth dist.	805 Apr 30 j 08:10	13°M13'36	17.83692 AU
opposition	799 Apr 02 j 08:03	15° ≏ 42'19	0°38'39	direct	805 Jul 16 j 13:54	11°ML10'45	
min. Earth dist.	799 Apr 02 j 21:06		17.52244 AU	evening set	805 Oct 18 j 20:51	14°M31'44	
direct	799 Jun 18 j 09:52	13° ≏ 37'18			805 Oct 26 j 14:35	15°M	
evening set	799 Sep 21 j 22:45	17° ≏ 04'21					
				conjunction	805 Nov 03 j 16:06	15°M29'52	0°16'51
conjunction	799 Oct 07 j 23:49	18° £ 04'14	0°33'34	minimum elong	805 Nov 03 j 16:06	15°M29'52	0°16'51
minimum elong	799 Oct 07 j 23:49	18° £ 04'14	0°33'34	max. Earth dist.	805 Nov 03 j 15:17		19.86866 AU
max. Earth dist.	799 Oct 07 j 10:30	18° 2 202'09 19° 2 03'37	19.54288 AU	morning rise retrograde	805 Nov 19 j 09:17	16°M27'41 19°M43'36	
morning rise	799 Oct 23 j 21:33 800 Jan 22 j 23:35	19 ≗ 03 37 22° £ 22'42		opposition	806 Feb 18 j 18:34 806 May 05 j 05:13	19 1143 30 17° 1143 22	0°16'57
retrograde opposition	800 Jan 22 j 23:33 800 Apr 06 j 08:45	22 = 22 42 20° £ 21'35	0°36'06	min. Earth dist.	806 May 05 j 04:11		17.90044 AU
min. Earth dist.	800 Apr 06 j 19:05		17.56453 AU	direct	806 Jul 21 j 12:19	15°M40'48	17.90044 AU
direct	800 Jun 22 j 13:02	18° ⊆ 16'48	17.30 4 33 A0	evening set	806 Oct 23 j 13:23	19°ML00'39	
evening set	800 Sep 25 j 20:42	21° ⊆ 42'58		evening set	000 Oct 25 j 15.25	17 1100037	
e venning see	000 5 c p 25 j 20.12	21 — .200		conjunction	806 Nov 08 j 08:02	19°M58'29	0°13'39
conjunction	800 Oct 11 j 20:48	22° ≏ 42'34	0°31'11	minimum elong	806 Nov 08 j 08:02	19°M58'29	0°13'39
minimum elong	800 Oct 11 j 20:48	22° £ 42'34	0°31'10	behind sun begin	806 Nov 08 j 04:21	19°M57'56	
max. Earth dist.	800 Oct 11 j 10:20	22° £ 40'56	19.58711 AU	behind sun end	806 Nov 08 j 11:42	19°M59'03	
morning rise	800 Oct 27 j 17:27	23° ≏ 41'42		max. Earth dist.	806 Nov 08 j 10:11	19° M 58'49	19.93286 AU
retrograde	801 Jan 26 j 18:57	27° ♀ 00'16		morning rise	806 Nov 24 j 00:30	20°M56'03	
opposition	801 Apr 11 j 09:16	24° ≏ 59'15	0°33'19	retrograde	807 Feb 23 j 11:50	24°M11'25	
min. Earth dist.	801 Apr 11 j 18:42	24° ≏ 58'15	17.61095 AU	opposition	807 May 10 j 02:54	22°M11'22	0°13'20
direct	801 Jun 27 j 13:07	22° ≙ 54'44		min. Earth dist.	807 May 10 j 00:28	22°M11'37	17.96510 AU
evening set	801 Sep 30 j 17:52	26° ≏ 19'58		direct	807 Jul 26 j 10:15	20°M09'14	
				evening set	807 Oct 28 j 05:12	23°M27'55	
conjunction	801 Oct 16 j 16:46	27° ≙ 19'16					
minimum elong	801 Oct 16 j 16:47	27° £ 19'16	0°28'36	conjunction	807 Nov 12 j 22:58	24°M25'27	0°10'23
max. Earth dist.	801 Oct 16 j 07:31		19.63588 AU	minimum elong	807 Nov 12 j 22:59	24°M25'27	0°10'23
morning rise	801 Nov 01 j 12:43	28° £ 18'08		behind sun begin	807 Nov 12 j 17:46	24°M24'40	
ratrograda	801 Dec 01 j 20:38	0° ጤ 1° ጤ 36'11		behind sun end max. Earth dist.	807 Nov 13 j 04:11	24°M26'14	19.99787 AU
retrograde	802 Jan 31 j 16:07 802 Apr 06 j 12:52	1°1163611 30°RΩ		max. Earth dist.	807 Nov 13 j 01:48 807 Nov 28 j 15:10	24°11625'52 25°1622'45	17.77/8/ AU
opposition	802 Apr 06 j 12:32 802 Apr 16 j 09:18	30° № 25'16	0°30'21	retrograde	807 Nov 28 j 15:10 808 Feb 28 j 04:26	28°M37'35	
min. Earth dist.	802 Apr 16 j 15:46		17.66189 AU	opposition	808 Feb 28 J 04.26 808 May 14 j 00:07	26°M37'42	0°09'40
direct	802 Jul 02 j 15:11	27° ⊆ 31'04	-,	min. Earth dist.	808 May 13 j 19:54	26°M38'08	
	802 Sep 19 j 20:40	0°M		direct	808 Jul 30 j 06:43	24°M35'58	2.22020110
evening set	802 Oct 05 j 13:48	0°M.55'18		evening set	808 Oct 31 j 19:59	27°M53'28	
-	,			-	•		
conjunction	802 Oct 21 j 11:53	1° M .54'19	0°25'52	conjunction	808 Nov 16 j 13:15	28°M50'43	0°07'05

minimum alana	909 Nov. 16 : 12:15	200m 50142	0°07'04	may Earth dist	813 Dec 08 j 12:39	200.721126	20.37597 AU
minimum elong	808 Nov 16 j 13:15	28°M50'43	0-0/04	max. Earth dist.	•		20.37397 AU
behind sun begin	808 Nov 16 j 07:10	28°M49'49		morning rise	813 Dec 23 j 15:02	21°×25'39	
behind sun end	808 Nov 16 j 19:19	28°M51'37		retrograde	814 Mar 25 j 19:02	24° ₹ 37'09	
max. Earth dist.	808 Nov 16 j 18:44		20.06298 AU	opposition	814 Jun 10 j 17:23	22° ∡ ³37'44	
morning rise	808 Dec 02 j 04:51	29°M47'46		min. Earth dist.	814 Jun 10 j 04:10	22° ₹ 39'04	18.40604 AU
	808 Dec 05 j 15:23	0° ∡ ¹		direct	814 Aug 26 j 17:26	20° ∡ ³38′01	
retrograde	809 Mar 03 j 20:37	3° ҂ ¹02'02		evening set	814 Nov 26 j 18:52	23° ∡ ⁴48'16	
opposition	809 May 18 j 20:45	1° ₹ 02'18	0°05'58				
min. Earth dist.	809 May 18 j 14:56	1° ∡ 02'54	18.09516 AU	conjunction	814 Dec 12 j 09:41	24° ∡ ¹43'57	-0°12'40
	809 Jun 14 j 10:18	30°RM₊		minimum elong	814 Dec 12 j 09:41	24° ∡ ¹43'57	0°12'39
direct	809 Aug 04 j 03:33	29°ML00'58		behind sun begin	814 Dec 12 j 05:26	24° х 43′20	
	809 Sep 21 j 14:54	0° ∡ ¹		behind sun end	814 Dec 12 j 13:56	24° х 44'35	
evening set	809 Nov 05 j 10:06	2° × 717'15		max. Earth dist.	814 Dec 13 j 00:31		20.43607 AU
evening set	809 NOV 03 J 10.00	2 × 1/13					20.43007 AU
	00031 01:00 00	20 71 411 4	0000145	morning rise	814 Dec 28 j 00:32	25° 🖈 39'40	
conjunction	809 Nov 21 j 02:39	3° ∡ 14'14	0°03'45	retrograde	815 Mar 30 j 08:23	28° ₹ 50'39	
minimum elong	809 Nov 21 j 02:38	3° ≯ 14'13	0°03'46	opposition	815 Jun 15 j 09:27	26° ₹ 51'18	
behind sun begin	809 Nov 20 j 20:08	3° ⊀ 13'16		min. Earth dist.	815 Jun 14 j 17:55	26° ₹ 52'52	18.46580 AU
behind sun end	809 Nov 21 j 09:07	3° ∡ 15'11		direct	815 Aug 31 j 08:59	24° ₹ '51'53	
max. Earth dist.	809 Nov 21 j 08:43	3° ∡ 15′07	20.12756 AU	evening set	815 Dec 01 j 03:58	28° ₹ 01'02	
morning rise	809 Dec 06 j 18:04	4° ₹ 11'02			·		
retrograde	810 Mar 08 j 11:51	7° ҂ 724'46		conjunction	815 Dec 16 j 18:30	28° ₹ 56'30	-0°15'42
opposition	810 May 23 j 16:45	5°×725'08	0°02'14	minimum elong	815 Dec 16 j 18:30	28° 🖈 56'30	
min. Earth dist.					•		0 13 43
	810 May 23 j 09:33		18.15945 AU	behind sun begin	815 Dec 16 j 16:44	28° 🗷 56'14	
direct	810 Aug 08 j 22:04	3° ∡ 124'09		behind sun end	815 Dec 16 j 20:16	28° ₹ 56'45	
evening set	810 Nov 09 j 23:05	6° ≯ 39'14		max. Earth dist.	815 Dec 17 j 10:21	28° ≯ 58'51	20.49545 AU
				morning rise	816 Jan 01 j 09:32	29° ₹ 52'02	
conjunction	810 Nov 25 j 15:17	7° ∡¹ 35'55	0°00'21		816 Jan 03 j 16:25	5°0	
minimum elong	810 Nov 25 j 15:17	7° ∡ ³35'55	0°00'21	retrograde	816 Apr 02 j 19:49	3° る 02'33	
behind sun begin	810 Nov 25 j 08:46	7° ∡ ³34'58		min. Earth dist.	816 Jun 18 j 08:52	1° る 04'54	18.52492 AU
behind sun end	810 Nov 25 j 21:48	7° ∡ ³36'53		opposition	816 Jun 19 j 01:07	1° る 03'15	-0°19'01
max. Earth dist.	810 Nov 25 j 23:46		20.19131 AU	оррозион	816 Jul 16 j 13:51	30°R. ✓	0 15 01
morning rise	810 Dec 11 j 06:22	8°×732'30	20.17131 AO	direct	816 Sep 03 j 21:37	29° ₹ 04'11	
Č	·			direct			
desc. node	811 Jan 02 j 00:52	9° ∡ 745′51			816 Oct 21 j 05:26	0°る	
retrograde	811 Mar 13 j 02:44	11° ∡ ¹45'39		evening set	816 Dec 04 j 12:10	2° る 12'14	
opposition	811 May 28 j 11:58	9° ∡ ¹46'07					
min. Earth dist.	811 May 28 j 02:59	9° ∡ ¹47'02	18.22252 AU	conjunction	816 Dec 20 j 02:42	3° る 07'30	-0°18'39
direct	811 Aug 13 j 16:57	7° ∡ ¹45'29		minimum elong	816 Dec 20 j 02:42	3° ⋜ 07'30	0°18'38
evening set	811 Nov 14 j 11:26	10° ₹ 59'20		max. Earth dist.	816 Dec 20 j 20:38	3° ප 10'10	20.55406 AU
•	,			morning rise	817 Jan 04 j 17:48	4° る 02'51	
conjunction	811 Nov 30 j 03:03	11° ₹ 55'46	-0°03'03	retrograde	817 Apr 07 j 09:03	7° る 12'56	
minimum elong	811 Nov 30 j 03:02	11° х 55'45		opposition	817 Jun 23 j 16:01	5° る 13'43	-0°22'13
behind sun begin	811 Nov 29 j 20:31	11° х 53'43	0 03 03	min. Earth dist.	817 Jun 22 j 21:27		18.58288 AU
_							10.36266 AU
behind sun end	811 Nov 30 j 09:33	11° ∡ 756'43	20.25200 477	direct	817 Sep 08 j 11:54	3°る14'59	
max. Earth dist.	811 Nov 30 j 12:10		20.25380 AU	evening set	817 Dec 08 j 19:59	6° る 22'01	
morning rise	811 Dec 15 j 18:05	12° ≯ 52'06					
retrograde	812 Mar 16 j 16:30	16° ₹ 04'42		conjunction	817 Dec 24 j 10:23	7° る 17'05	-0°21'29
opposition	812 Jun 01 j 06:26	14° ∡ °05′13	-0°05'08	minimum elong	817 Dec 24 j 10:23	7°る17'05	0°21'29
min. Earth dist.	812 May 31 j 20:24	14° ₰ 06'14	18.28456 AU	max. Earth dist.	817 Dec 25 j 05:18	7° る 19'53	20.61127 AU
direct	812 Aug 17 j 09:42	12° ∡ ¹04'53		morning rise	818 Jan 09 j 01:50	8° る 12'18	
evening set	812 Nov 17 j 22:43	15° √ 17'31		retrograde	818 Apr 11 j 19:25	11° る 21'58	
Č	J			min. Earth dist.	818 Jun 27 j 11:28	9° る 24'44	18.63939 AU
conjunction	812 Dec 03 j 14:05	16° ∡ 13'41	-0°06'19	opposition	818 Jun 28 j 06:20	9° る 22'50	
minimum elong	812 Dec 03 j 14:05	16° 🖈 13'41		direct	818 Sep 12 j 22:47	7° る 24'26	0 23 17
•			0 00 20				
behind sun begin	812 Dec 03 j 07:54	16° ∡ 12'47		evening set	818 Dec 13 j 03:09	10° ට 30'29	
behind sun end	812 Dec 03 j 20:16	16° ≯ 14'36				_	
max. Earth dist.	812 Dec 04 j 01:36		20.31534 AU	conjunction	818 Dec 28 j 17:43	11° る 25'23	
morning rise	812 Dec 19 j 04:55	17° ₹ 09'49		minimum elong	818 Dec 28 j 17:43	11° る 25'23	0°24'11
retrograde	813 Mar 21 j 06:24	20° ≯ 21'51		max. Earth dist.	818 Dec 29 j 14:15	11° る 28'24	20.66676 AU
opposition	813 Jun 06 j 00:14	18° ∡ 22'24	-0°08'44	morning rise	819 Jan 13 j 09:24	12° る 20'27	
min. Earth dist.	813 Jun 05 j 12:02	18° ∡ 23'39	18.34559 AU	retrograde	819 Apr 16 j 07:47	15° る 29'43	
direct	813 Aug 22 j 02:45	16° ∡ 22′23	-	opposition	819 Jul 02 j 19:54	13° る 30'42	-0°28'13
evening set	813 Nov 22 j 09:11	19° × 33'48		min. Earth dist.	819 Jul 01 j 23:03		18.69365 AU
evening set	015 110 V 22 J U7.11	1/ 7 33 40		direct	819 Sep 17 j 12:01	13 3 3247 11° る 32'37	10.07303 AU
a a minum - + :	012 Da- 00:00 07	200.700142	0000122				
conjunction	813 Dec 08 j 00:07	20° x 29'43		evening set	819 Dec 17 j 09:58	14° る 37'45	
minimum elong	813 Dec 08 j 00:07	20°×29'43	0°09'32			— -	
behind sun begin	813 Dec 07 j 18:38	20° ∡ 28'55		conjunction	820 Jan 02 j 00:31	15° る 32'29	
behind sun end	813 Dec 08 j 05:35	20° ∡ ³30'31		minimum elong	820 Jan 02 j 00:31	15° る 32'29	0°26'46
ocimia sun cha	813 Dec 08 J 03.33	20 7 3031			020 tun 02 j 00:51		

max. Earth dist.	820 Jan 02 j 21:44	15°₹35'36	20.71960 AU	opposition	826 Aug 01 j 04:14	11° ≈ 56'11	-0°43'39
morning rise	820 Jan 17 j 16:36	16°る27'25	20., 1, 00 110	direct	826 Oct 16 j 04:46	9°≈59'28	0 .555
retrograde	820 Apr 19 j 17:34	19° පි 36'21		evening set	827 Jan 14 j 00:08	12°≈59'30	
opposition	820 Jul 06 j 09:03	17° る 37'24	-0°30'59	evening set	027 Juli 14 j 00.00	12 703730	
min. Earth dist.	820 Jul 05 j 12:21		18.74515 AU	conjunction	827 Jan 29 j 17:22	13°≈53'33	0040100
direct	820 Sep 20 j 21:27	17 さ 3929 15° そ 39'38	16.74313 AU	minimum elong	827 Jan 29 j 17:21	13°≈53'33	0°40'09
	820 Sep 20 j 21:27 820 Dec 20 j 16:21	13 さ 3938 18° そ 43'53		max. Earth dist.	827 Jan 30 j 17:48		20.97853 AU
evening set	820 Dec 20 j 10.21	16 043 33			•	13 ≈3703 14°≈48'00	20.97833 AU
agnismation	921 Ion 05:07:00	19° る 38'28	0920112	morning rise	827 Feb 14 j 13:27	14 ≈48 00 15°≈	
conjunction	821 Jan 05 j 07:09			. 1	827 Feb 18 j 03:16		
minimum elong	821 Jan 05 j 07:09		0°29'12 20.76950 AU	retrograde	827 May 19 j 11:49	17°≈55'12	0045102
max. Earth dist.	821 Jan 06 j 05:32		20.76950 AU	opposition	827 Aug 05 j 13:27	15°≈56'07	
morning rise	821 Jan 20 j 23:34	20° る 33'17		min. Earth dist.	827 Aug 04 j 13:32		18.98938 AU
retrograde	821 Apr 24 j 04:46	23° る 41'54			827 Aug 29 j 22:26	15°R≈	
opposition	821 Jul 10 j 21:35	21° ප් 43'01		direct	827 Oct 20 j 12:45	13° ≈ 59'27	
min. Earth dist.	821 Jul 09 j 23:10	21° ප් 45'16	18.79327 AU		827 Dec 08 j 20:01	15° ≈	
direct	821 Sep 25 j 09:37	19° る 45'31		evening set	828 Jan 18 j 04:32	16° ≈ 59'01	
evening set	821 Dec 24 j 22:24	22° る 48'57					
				conjunction	828 Feb 02 j 22:15	17°≈53'02	
conjunction	822 Jan 09 j 13:22	23° ⋜ 43'24	-0°31'28	minimum elong	828 Feb 02 j 22:15	17° ≈ 53'02	0°41'18
minimum elong	822 Jan 09 j 13:22	23° る 43'24	0°31'28	max. Earth dist.	828 Feb 03 j 22:53	17° ≈ 56'35	20.99849 AU
max. Earth dist.	822 Jan 10 j 12:08	23° る 46'44	20.81558 AU	morning rise	828 Feb 18 j 19:07	18° ≈ 47′29	
morning rise	822 Jan 25 j 06:21	24° る 38'08		retrograde	828 May 22 j 18:41	21° ≈ 54'34	
retrograde	822 Apr 28 j 14:17	27° る 46'28		opposition	828 Aug 08 j 22:25	19° ≈ 55'25	-0°46'11
min. Earth dist.	822 Jul 14 j 11:53	25° る 49'48	18.83739 AU	min. Earth dist.	828 Aug 07 j 23:21	19° ≈ 57'43	19.00770 AU
opposition	822 Jul 15 j 09:43	25° る 47'37	-0°35'59	direct	828 Oct 23 j 18:37	17° ≈ 58'50	
direct	822 Sep 29 j 18:05	23° る 50'21		evening set	829 Jan 21 j 08:50	20° ≈ 57'58	
evening set	822 Dec 29 j 04:11	26° පි 53'01					
				conjunction	829 Feb 06 j 03:16	21° ≈ 51'59	-0°42'14
conjunction	823 Jan 13 j 19:33	27° る 47'21	-0°33'34	minimum elong	829 Feb 06 j 03:16	21° ≈ 51'59	0°42'14
minimum elong	823 Jan 13 j 19:33	27° る 47'21	0°33'35	max. Earth dist.	829 Feb 07 j 04:15	21°≈55'35	21.01518 AU
max. Earth dist.	823 Jan 14 j 18:54	27° る 50'45	20.85746 AU	morning rise	829 Feb 22 j 00:54	22° ≈ 46'27	
morning rise	823 Jan 29 j 12:58	28° ⋜ 41'59		retrograde	829 May 27 j 04:14	25°≈53'28	
C	823 Feb 22 j 21:11	0° ≈		min. Earth dist.	829 Aug 12 j 06:38	23°≈56'40	19.02273 AU
retrograde	823 May 03 j 00:28	1°≈50'02		opposition	829 Aug 13 j 06:49	23° ≈ 54'15	
renograde	823 Jul 16 j 04:51	30°Rる		direct	829 Oct 28 j 01:37	21°≈57'44	0 17 00
opposition	823 Jul 19 j 20:59	29° ろ 51'12	-0°38'13	evening set	830 Jan 25 j 13:09	24°≈56'32	
min. Earth dist.	823 Jul 18 j 21:49		18.87692 AU	evening sec	050 Juli 25 j 15.09	21703032	
direct	823 Oct 04 j 04:44	27° ප 54'08	10.07072110	conjunction	830 Feb 10 j 08:15	25°≈50'34	-0°42'59
direct	823 Dec 16 j 06:06	0°≈		minimum elong	830 Feb 10 j 08:15	25°≈50'34	
evening set	824 Jan 02 j 09:43	0° ≈ 56'04		max. Earth dist.	830 Feb 11 j 09:15		21.02845 AU
evening set	024 Jan 02 J 07.43	0 ~3004		morning rise	830 Feb 26 j 06:47	26°≈45'05	21.020 1 3 AO
conjunction	824 Jan 18 j 01:22	1°≈50'18 -	0°25'20	retrograde	830 May 31 j 10:45	20 ≈43 03 29°≈52'04	
minimum elong	824 Jan 18 j 01:22	1°≈50'18		opposition	830 Aug 17 j 15:02	29 ≈52 04 27°≈52'49	0047!40
max. Earth dist.	824 Jan 19 j 00:46		20.89453 AU	min. Earth dist.	830 Aug 16 j 15:56		19.03433 AU
morning rise	824 Feb 02 j 19:25	2°≈44'52	20.69433 AU	direct	830 Nov 01 j 06:27	27 ≈5508 25°≈56'22	19.03433 AU
retrograde	824 May 06 j 09:08	5°≈52'40		evening set	831 Jan 29 j 17:31	23 ≈50 22 28°≈54'55	
min. Earth dist.	824 Jul 22 j 09:42		18.91168 AU	evening set	631 Jan 29 J 17.31	20 ≈3433	
opposition	824 Jul 23 j 08:04	3°≈53'49		conjunction	831 Feb 14 j 13:25	29° ≈ 48'59	00/12/21
direct	824 Oct 07 j 12:33	1°≈56'54	-0 40 14	minimum elong	831 Feb 14 j 13:25		
evening set	824 Oct 0/ j 12:33 825 Jan 05 j 14:41	1°≈56'54 4°≈58'08		max. Earth dist.	831 Feb 14 j 13:25 831 Feb 15 j 14:25	29°≈48'59	21.03837 AU
evening set	623 Jan 03 j 14.41	4 ~5000		max. Earth dist.	,		21.03637 AU
conjunction	825 Jan 21 j 06:51	5° ≈ 52'17 -	0°37'14	morning rise	831 Feb 17 j 18:12 831 Mar 02 j 12:46	0° 光 0° 光 43'32	
	-			•	-		
minimum elong	825 Jan 21 j 06:51	5°≈52'17		retrograde	831 Jun 04 j 20:23	3° ¥ 50′33	0040117
max. Earth dist.	825 Jan 22 j 06:45		20.92696 AU	opposition	831 Aug 21 j 22:43	1° ¥ 51′16	
morning rise	825 Feb 06 j 01:31	6°≈46'48		min. Earth dist.	831 Aug 20 j 22:51		19.04241 AU
retrograde	825 May 10 j 18:48	9°≈54'23	0942102	direct	831 Oct 22 j 06:52	30°R≈ 20°a ≈ 54!52	
opposition	825 Jul 27 j 18:26	7°≈55'27 -		direct	831 Nov 05 j 12:38	29°≈54'53	
min. Earth dist.	825 Jul 26 j 18:48		18.94175 AU		831 Nov 19 j 12:50	0°) (5311€	
direct	825 Oct 11 j 21:48	5°≈58'39		evening set	832 Feb 02 j 22:04	2°) 53′16	
evening set	826 Jan 09 j 19:35	8° ≈ 59'15			000 71 101 11	2017	00.42:
				conjunction	832 Feb 18 j 18:41	3°) 47′23	
conjunction	826 Jan 25 j 12:11	9° ≈ 53'21 ·		minimum elong	832 Feb 18 j 18:41	3°) (47′23	
minimum elong	826 Jan 25 j 12:10		0°38'47	max. Earth dist.	832 Feb 19 j 19:27		21.04457 AU
max. Earth dist.	826 Jan 26 j 12:11		20.95474 AU	morning rise	832 Mar 05 j 18:57	4°) (42′00	
morning rise	826 Feb 10 j 07:35	10° ≈ 47′50		retrograde	832 Jun 08 j 03:05	7°) 49′05	
retrograde	826 May 15 j 02:25	13° ≈ 55′11		min. Earth dist.	832 Aug 24 j 07:56		19.04674 AU
min. Earth dist.	826 Jul 31 j 05:32	11° ≈ 58′27	18.96751 AU	opposition	832 Aug 25 j 06:29	5°) (49′47	-0°48'32

direct	832 Nov 08 j 16:59	3° ¥ 53'28		minimum alana	920 Mar. 19 : 17:45	1° Y '44'56	0940!19
direct	,			minimum elong	839 Mar 18 j 17:45		20.95856 AU
evening set	833 Feb 06 j 02:38	6° ⊁ 51'44		max. Earth dist.	839 Mar 19 j 11:48		20.95856 AU
		>/		morning rise	839 Apr 04 j 00:48	2° Υ 40'26	
conjunction	833 Feb 22 j 00:10	7° ¥ 45'55		retrograde	839 Jul 07 j 19:39	5° Ƴ 48'47	
minimum elong	833 Feb 22 j 00:10	7° ∺ 45'55		opposition	839 Sep 23 j 09:14	3° Ƴ 48'50	
max. Earth dist.	833 Feb 23 j 00:39	7° ∺ 49'25	21.04700 AU	min. Earth dist.	839 Sep 22 j 16:54		18.94326 AU
morning rise	833 Mar 10 j 01:22	8°) 40′37		direct	839 Dec 07 j 06:28	1° Ƴ 51'56	
retrograde	833 Jun 12 j 12:59	11°) 47'49		evening set	840 Mar 05 j 21:56	4° Ƴ 51'15	
opposition	833 Aug 29 j 13:57	9° ∺ 48'30	-0°48'33				
min. Earth dist.	833 Aug 28 j 14:59	9°) 50'48	19.04702 AU	conjunction	840 Mar 22 j 02:07	5° Ƴ 46'22	-0°38'57
direct	833 Nov 12 j 22:44	7° ¥ 52'13		minimum elong	840 Mar 22 j 02:07	5° Ƴ 46'22	0°38'57
evening set	834 Feb 10 j 07:46	10° ¥ 50′28		max. Earth dist.	840 Mar 22 j 19:08	5° Ƴ 48'48	20.92649 AU
8				morning rise	840 Apr 07 j 10:10	6° Ƴ 42'03	
conjunction	834 Feb 26 j 06:06	11°) 44'44	-0°43'53	retrograde	840 Jul 11 j 04:15	9° Υ 50'39	
minimum elong	834 Feb 26 j 06:06	11°) (44'44		opposition	840 Sep 26 j 16:27	7° Υ ′50'32	0.042,13
max. Earth dist.	834 Feb 27 j 05:56		21.04500 AU	min. Earth dist.	840 Sep 26 j 02:04		18.90927 AU
	-		21.04300 AU	direct		5° Υ 53'24	16.90927 AU
morning rise	834 Mar 14 j 08:16	12°) ₹39'32			840 Dec 10 j 11:14		
retrograde	834 Jun 16 j 20:22	15°) 46′52		evening set	841 Mar 10 j 05:41	8° Y 53'06	
opposition	834 Sep 02 j 21:14	13°) 47′31				00	
min. Earth dist.	834 Sep 02 j 00:04		19.04271 AU	conjunction	841 Mar 26 j 10:58	9° Ƴ 48'25	
direct	834 Nov 17 j 02:53	11° 米 51′15		minimum elong	841 Mar 26 j 10:58	9° Ƴ 48'25	0°37'25
evening set	835 Feb 14 j 13:09	14°) 49′33		max. Earth dist.	841 Mar 27 j 02:37	9° Ƴ 50'39	20.89087 AU
				morning rise	841 Apr 11 j 20:03	10° Ƴ 44'17	
conjunction	835 Mar 02 j 12:26	15°) 43′55	-0°43'35	retrograde	841 Jul 15 j 15:14	13° Y 53'12	
minimum elong	835 Mar 02 j 12:26	15°) 43′55	0°43'35	opposition	841 Sep 30 j 23:37	11° Y 52'54	-0°40'25
max. Earth dist.	835 Mar 03 j 11:23	15° ¥ 47'12	21.03834 AU	min. Earth dist.	841 Sep 30 j 09:42	11° Ƴ 54'19	18.87194 AU
morning rise	835 Mar 18 j 15:31	16° ¥ 38'49		direct	841 Dec 14 j 18:06	9° Y 55'32	
retrograde	835 Jun 21 j 06:27	19°) 46′20		evening set	842 Mar 14 j 14:11	12° Y ′55'42	
min. Earth dist.	835 Sep 06 j 07:21		19.03345 AU	evening sec	0.2	12 , 00 .2	
opposition	835 Sep 07 j 04:28	17°) 46′56		conjunction	842 Mar 30 j 20:29	13° Ƴ 51'14	0°35'41
direct	835 Nov 21 j 08:45	15° H 50'38	-0 47 34	minimum elong	842 Mar 30 j 20:29	13° Y 51'14	
	-	18° H 49'01		max. Earth dist.	-		20.85191 AU
evening set	836 Feb 18 j 18:53	18° X 4901			842 Mar 31 j 11:04		20.85191 AU
				morning rise	842 Apr 16 j 06:28	14° Y 47'18	
conjunction	836 Mar 05 j 19:02	19°) 43′31		retrograde	842 Jul 20 j 00:46	17° Y ′56'33	
minimum elong	836 Mar 05 j 19:02	19° ⊁ 43'31	0°43'04	opposition	842 Oct 05 j 06:54	15° Y 56′06	
max. Earth dist.	836 Mar 06 j 16:58		21.02634 AU	min. Earth dist.	842 Oct 04 j 18:54		18.83154 AU
morning rise	836 Mar 21 j 23:06	20°) 38′33		direct	842 Dec 18 j 23:35	13° Ƴ 58'29	
retrograde	836 Jun 24 j 14:21	23° ¥ 46′15		evening set	843 Mar 18 j 23:11	16° Ƴ 59'13	
opposition	836 Sep 10 j 11:52	21°) 46′46	-0°47'13				
min. Earth dist.	836 Sep 09 j 16:41	21°) 48'42	19.01874 AU	conjunction	843 Apr 04 j 06:32	17° Ƴ 54'59	-0°33'47
direct	836 Nov 24 j 12:57	19° ¥ 50′24		minimum elong	843 Apr 04 j 06:32	17° Ƴ 54'59	0°33'47
evening set	837 Feb 22 j 01:02	22°) 48′56		max. Earth dist.	843 Apr 04 j 19:31		20.81032 AU
evening sec	037100 223 01.02	22 /(.000		morning rise	843 Apr 20 j 17:30	18° Y 51'16	20.01032110
conjunction	837 Mar 10 j 02:13	23°) 43′33	-0°42'21	retrograde	843 Jul 24 j 12:22	22° Υ '00'54	
minimum elong	837 Mar 10 j 02:13	23°) (43'33		opposition	843 Oct 09 j 14:25	20° Υ '00'18	0°36'13
max. Earth dist.			21.00903 AU	min. Earth dist.	843 Oct 09 j 02:55		18.78865 AU
	837 Mar 10 j 22:53		21.00903 AU		,	20 γ 01 29 18° γ 02'27	16.76603 AU
morning rise	837 Mar 26 j 07:17	24°\(\)38'43		direct	843 Dec 23 j 06:22		
retrograde	837 Jun 29 j 00:56	27°) € 46'38	004640	evening set	844 Mar 22 j 08:44	21° Y 03'48	
opposition	837 Sep 14 j 18:58	25°) 47′01					
min. Earth dist.	837 Sep 14 j 00:08		18.99864 AU	conjunction	844 Apr 07 j 17:07	21° Y 59'48	
direct	837 Nov 28 j 19:19	23° ¥ 50′30		minimum elong	844 Apr 07 j 17:07	21° Y 59'48	
evening set	838 Feb 26 j 07:39	26° ¥ 49'15		max. Earth dist.	844 Apr 08 j 05:09		20.76617 AU
				morning rise	844 Apr 24 j 04:58	22° Ƴ 56'19	
conjunction	838 Mar 14 j 09:49	27°) 44′01	-0°41'26	retrograde	844 Jul 27 j 23:03	26° Y ′06′23	
minimum elong	838 Mar 14 j 09:49	27°) 44'01	0°41'25	opposition	844 Oct 12 j 22:20	24° Y 05'40	-0°33'49
max. Earth dist.	838 Mar 15 j 05:14	27°) 46′48	20.98623 AU	min. Earth dist.	844 Oct 12 j 12:41	24° Y 06'40	18.74331 AU
morning rise	838 Mar 30 j 15:54	28° ¥ 39′21		direct	844 Dec 26 j 12:47	22° Y '07'36	
<i>5</i> 2-	838 Apr 25 j 09:45	0°Υ		evening set	845 Mar 26 j 19:11	25° Y ′09'40	
retrograde	838 Jul 03 j 08:57	1° Υ '47'28		o, oming bet	5.0ur 20 j 17.11	1 J) 7U	
renograde	838 Sep 14 j 00:52	1 14/28 30°R ∺		conjunction	845 Apr 12 j 04:35	26° Y 05'55	-0°20'27
min Footh diet			19 07224 411			26° Υ 05'55	
min. Earth dist.	838 Sep 18 j 09:28		18.97324 AU	minimum elong	845 Apr 12 j 04:35		
opposition	838 Sep 19 j 02:13	29°) 47'42	-0~45'10	max. Earth dist.	845 Apr 12 j 14:44		20.71987 AU
direct	838 Dec 02 j 23:41	27° ¥ 51′01		morning rise	845 Apr 28 j 17:25	27° Y ′02'40	
	839 Feb 15 j 03:10	0° Υ			845 Jul 09 j 09:37	0°8	
evening set	839 Mar 02 j 14:32	0° Y 50′00		retrograde	845 Aug 01 j 11:50	0° 8 13'11	
					845 Aug 24 j 15:36	30° ŖƳ	
conjunction	839 Mar 18 j 17:44	1° Y '44'56	-0°40'17	opposition	845 Oct 17 j 06:20	28° Y 12'22	-0°31'15
	•				•		

Seek	
conjunction 846 Apr 16 j 16:55 0°B1327 -0°2702 behind sun begin 852 May 12 j 06:58 25°B3232 2 sep3402 max. Earth dist. 846 Apr 16 j 16:55 0°B1425 0°B1270 behind sun end 852 May 12 j 0°18 25°B3252 20:32399 A max. Earth dist. 846 May 03 j 06:32 1°B1028 morning rise 852 May 2 j 0°16:04 26°B31'53 retrograde 846 Aug 05 j 23:41 4°B2128 retrograde 852 May 2 j 0°6:04 26°B31'53 opposition 846 Oct 21 j 14:53 2°B20'35 -0°28'29 opposition 852 Nov 15 j 03:36 2°B44'03 -0°08'52 direct 847 Jan 04 j 03:21 0°B2204 direct 853 Jan 28 j 16:48 25°B43'58 evening set 847 Apr 04 j 18:32 3°B25'47 evening set 853 May 17 j 06:40 29°B5'219 -0°06'26 minimum elong 847 Apr 21 j 05:53 4°B22'34 -0°24'28 evining set 853 May 17 j 06:40 29°B5'219 -0°06'26 max. Earth dist. 847 Apr 21 j 05:53 4°B22'34 0°24'28 minimum elong 853 May 17 j 06:40 <td></td>	
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minimum elong max. Earth dist. 848 Apr 24 j 19:56 8°\delta 33'22 0°21'45 evening set 854 May 05 j 08:34 3°\delta 14'04 max. Earth dist. 848 Apr 25 j 01:20 8°\delta 34'09 20.56665 AU morning rise 848 May 11 j 11:03 9°\delta 30'53 conjunction 854 May 22 j 01:46 4°\delta 12'55 -0°03'08 retrograde 848 Aug 14 j 02:39 12°\delta 42'57 minimum elong 854 May 22 j 01:44 4°\delta 12'55 0°03'08 opposition 848 Oct 29 j 09:09 10°\delta 41'56 -0°22'29 behind sun begin 854 May 21 j 19:00 4°\delta 11'57 min. Earth dist. 848 Oct 29 j 05:39 10°\delta 42'18 18.53870 AU behind sun end 854 May 22 j 08:29 4°\delta 13'53 direct 849 Jan 11 j 20:11 8°\delta 42'54 max. Earth dist. 854 May 21 j 18:35 4°\delta 11'53 20.19131 A evening set 849 Apr 12 j 21:36 11°\delta 48'30 morning rise 854 Sep 09 j 20:46 8°\delta 20'' 11'59 retrograde 854 Sep 09 j 20:46 8°\delta 20'' 12'' 12 conjunction 849 Apr 29 j 10:48 12°\delta 45'52 0°18'54 min. Earth dist. 854 Nov 24 j 03:46 6°\delta 25'18 -0°01'33 minimum elong 849 Apr 29 j 10:48 12°\delta 45'52 0°18'54 min. Earth dist. 854 Nov 24 j 10:46 6°\delta 25'18 -0°01'33 18.15768 A	U
max. Earth dist. 848 Apr 25 j 01:20 8°834'09 20.56665 AU morning rise 848 May 11 j 11:03 9°830'53 conjunction 854 May 22 j 01:46 4° II 2'55 -0° 03'08 retrograde 848 Aug 14 j 02:39 12°842'57 minimum elong 854 May 22 j 01:44 4° II 12'55 0° 03'08 opposition 848 Oct 29 j 09:09 10°841'56 -0° 22'29 behind sun begin 854 May 21 j 19:00 4° II 1'57 min. Earth dist. 848 Oct 29 j 05:39 10°842'18 18.53870 AU behind sun end 854 May 22 j 08:29 4° II 13'53 direct 849 Jan 11 j 20:11 8°842'54 max. Earth dist. 854 May 21 j 18:35 4° II 1'53 20.19131 A evening set 849 Apr 12 j 21:36 11°848'30 morning rise 854 Jun 07 j 20:06 5° II 1'59 retrograde 854 Sep 09 j 20:46 8° II 27'12 conjunction 849 Apr 29 j 10:48 12°845'52 -0°18'54 opposition 854 Nov 24 j 03:46 6° II 25'18 -0°01'33 minimum elong 849 Apr 29 j 10:48 12°845'52 0°18'54 min. Earth dist. 854 Nov 24 j 10:46 6° II 24'33 18.15768 A	
morning rise 848 May 11 j 11:03 9°830'53 conjunction 854 May 22 j 01:46 4° I 12'55 -0°03'08 retrograde 848 Aug 14 j 02:39 12°842'57 minimum elong 854 May 22 j 01:44 4° I I2'55 0°03'08 opposition 848 Oct 29 j 09:09 10°841'56 -0°22'29 behind sun begin 854 May 21 j 19:00 4° I I1'57 min. Earth dist. 848 Oct 29 j 05:39 10°842'18 18.53870 AU behind sun end 854 May 22 j 08:29 4° I I1'57 direct 849 Jan 11 j 20:11 8°842'54 max. Earth dist. 854 May 21 j 18:35 4° I I1'53 20.19131 A evening set 849 Apr 12 j 21:36 11°848'30 morning rise 854 Jun 07 j 20:06 5° I I1'59 retrograde 854 Sep 09 j 20:46 8° I I1'59 conjunction 849 Apr 29 j 10:48 12°845'52 -0°18'54 opposition 854 Nov 24 j 03:46 6° I I25'18 -0°01'33 minimum elong 849 Apr 29 j 10:48 12°845'52 0°18'54 min. Earth dist. 854 Nov 24 j 10:46 6° I I25'18 18.15768 A	
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min. Earth dist. 848 Oct 29 j 05:39 10°842'18 18.53870 AU behind sun end 854 May 22 j 08:29 4°II3'53 direct 849 Jan 11 j 20:11 8°842'54 max. Earth dist. 854 May 21 j 18:35 4°II1'53 20.19131 A evening set 849 Apr 12 j 21:36 11°848'30 morning rise 854 Jun 07 j 20:06 5°II1'59 retrograde 854 Sep 09 j 20:46 8°II27'12 conjunction 849 Apr 29 j 10:48 12°845'52 -0°18'54 opposition 854 Nov 24 j 03:46 6°II25'18 -0°01'33 minimum elong 849 Apr 29 j 10:48 12°845'52 0°18'54 min. Earth dist. 854 Nov 24 j 10:46 6°II24'33 18.15768 A	
direct 849 Jan 11 j 20:11 8°842'54 max. Earth dist. 854 May 21 j 18:35 4° I I1'53 20.19131 A evening set 849 Apr 12 j 21:36 11°848'30 morning rise 854 Jun 07 j 20:06 5° I I1'59 retrograde 854 Sep 09 j 20:46 8° I I I I I I I I I I I I I I I I I I	
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retrograde 854 Sep 09 j 20:46 8° II 27' 12 conjunction 849 Apr 29 j 10:48 12° 845' 52 -0° 18' 54 opposition 854 Nov 24 j 03:46 6° II 25' 18 -0° 01' 33 minimum elong 849 Apr 29 j 10:48 12° 845' 52 0° 18' 54 min. Earth dist. 854 Nov 24 j 10:46 6° II 24' 33 18.15768 A	0
conjunction 849 Apr 29 j 10:48 12° 845'52 -0°18'54 opposition 854 Nov 24 j 03:46 6° Д25'18 -0°01'33 minimum elong 849 Apr 29 j 10:48 12° 845'52 0°18'54 min. Earth dist. 854 Nov 24 j 10:46 6° Д25'18 -0°01'33	
minimum elong 849 Apr 29 j 10:48 12° 845'52 0°18'54 min. Earth dist. 854 Nov 24 j 10:46 6° II 24'33 18.15768 A	
·	U
max. Earth dist. 849 Apr 29 j 13:20 12°846'14 20.51024 AU direct 855 Feb 06 j 19:51 4°II.23'54	
morning rise 849 May 16 j 02:46 13°843'39 asc. node 855 Apr 27 j 03:51 6° II 52'07	
849 Jun 08 j 20:10 15° 8 evening set 855 May 10 j 03:39 7° I I35'59	
retrograde 849 Aug 18 j 17:45 16° 8 56'16	
849 Oct 31 j 20:44 15°R♥ conjunction 855 May 26 j 21:12 8°耳35'07 0°00'17	
opposition 849 Nov 02 j 19:02 14° $\mbox{855'08}$ -0°19'15 minimum elong 855 May 26 j 21:13 8° $\mbox{1135'07}$ 0°00'17	
min. Earth dist. 849 Nov 02 j 17:04 14° \$\frac{8}{55}\$'21 18.48074 AU behind sun begin 855 May 26 j 14:29 8° \$\pi 34'08\$	
direct 850 Jan 16 j 06:57 12°♂55'47 behind sun end 855 May 27 j 03:57 8°耳36'05	
850 Mar 29 j 09:49 15° ४ max. Earth dist. 855 May 26 j 11:10 8° Ⅲ 33'38 20.12460 A	U
evening set 850 Apr 17 j 12:31 16° 8 02'24 morning rise 855 Jun 12 j 16:01 9° II 34'26	
retrograde 855 Sep 14 j 13:35 12° II 50'11	
conjunction 850 May 04 j 02:40 17°800'04 -0°15'55 opposition 855 Nov 28 j 16:47 10°II48'07 0°02'10	
minimum elong 850 May 04 j 02:40 17°800'04 0°15'54 min. Earth dist. 855 Nov 29 j 01:26 10°II47'12 18.09132 A	U
max. Earth dist. 850 May 04 j 03:42 17°800'13 20.45067 AU direct 856 Feb 11 j 10:15 8°II.46'16	
morning rise 850 May 20 j 19:07 17° ₹58'07 evening set 856 May 13 j 23:35 11° Д59'33	
retrograde 850 Aug 23 j 07:05 21°♂11'14 opposition 850 Nov 07 j 05:23 19°♂10'00 -0°15'54 conjunction 856 May 30 j 17:48 12°耳58'58 0°03'42	
opposition 850 Nov 07 j 05:23 19° \(\begin{array}{cccccccccccccccccccccccccccccccccccc	
direct 851 Jan 20 j 16:36 17°810'18 behind sun begin 856 May 30 j 11:06 12° II 58'00	
evening set 851 Apr 22 j 04:17 20°817'56 behind sun end 856 May 31 j 00:32 12°II 59'57	
max. Earth dist. 856 May 30 j 07:13 12° II 57'25 20.05859 A	U
conjunction 851 May 08 j 19:10 21°815'53 -0°12'50 morning rise 856 Jun 16 j 12:38 13° II 58'32	_
minimum elong 851 May 08 j 19:10 21°815'53 0°12'51 retrograde 856 Sep 18 j 07:18 17° II 14'47	
behind sun begin 851 May 08 j 15:06 21°815'19 opposition 856 Dec 02 j 06:18 15°II 12'37 0°05'54	
behind sun end 851 May 08 j 23:13 21°816'28 min. Earth dist. 856 Dec 02 j 16:04 15°II 11'34 18.02592 A	U
max. Earth dist. 851 May 08 j 17:08 21°815'36 20.38846 AU direct 857 Feb 15 j 01:13 13° II 10'21	
morning rise 851 May 25 j 12:21 22°814'12 evening set 857 May 18 j 20:36 16°II 24'51	
retrograde 851 Aug 27 j 22:50 25° \(\frac{2}{5} \)27'52	
opposition 851 Nov 11 j 16:13 23°826'27 -0°12'26 conjunction 857 Jun 04 j 15:04 17° II 24'32 0°07'02	
min. Earth dist. 851 Nov 11 j 18:05 23°826'16 18.35630 AU minimum elong 857 Jun 04 j 15:04 17° II 24'32 0°07'03	

behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	857 Jun 04 j 08:49 857 Jun 04 j 21:19 857 Jun 04 j 01:37 857 Jun 21 j 10:10 857 Sep 23 j 01:26 857 Dec 06 j 20:38 857 Dec 07 j 08:05 858 Feb 19 j 16:35 858 May 23 j 18:15	18°Д24'21 21°Д41'08 19°Д38'50	19.99397 AU 0°09'37 17.96226 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	863 Jul 03 j 14:58 863 Jul 03 j 14:58 863 Jul 02 j 16:45 863 Jul 20 j 08:32 863 Oct 21 j 05:26 864 Jan 03 j 01:51 864 Jan 03 j 21:05 864 Mar 18 j 06:33 864 Jun 20 j 22:32	15°©37'33 18°©57'19 16°©54'56	0°25'58 0°25'58 19.65098 AU 0°30'27 17.62608 AU
			0010121		- -		0929144
conjunction minimum elong behind sun begin behind sun end	858 Jun 09 j 13:12 858 Jun 09 j 13:12 858 Jun 09 j 07:54 858 Jun 09 j 18:29	21°П51'53 21°П51'53 21°П51'06 21°П52'39	0°10'21 0°10'21	conjunction minimum elong max. Earth dist. morning rise	864 Jul 07 j 17:20 864 Jul 07 j 17:20 864 Jul 06 j 18:10 864 Jul 24 j 10:21	19°514'44 19°514'43 19°511'10 20°515'48	0°28'44 0°28'44 19.60141 AU
max. Earth dist. morning rise	858 Jun 08 j 23:22 858 Jun 26 j 08:06	21° Ⅱ 49'49 22° Ⅱ 51'54	19.93121 AU	retrograde opposition	864 Oct 25 j 04:16 865 Jan 06 j 21:07	23° © 35'57 21° © 33'33	0°33'26
retrograde	858 Sep 27 j 20:58	26° I 109'13	0012010	min. Earth dist.	865 Jan 07 j 16:32	21° © 31'26	17.57772 AU
opposition min. Earth dist.	858 Dec 11 j 11:34 858 Dec 11 j 23:44		0°13'18 17.90058 AU	direct evening set	865 Mar 23 j 05:16 865 Jun 26 j 01:44	19° © 28'40 22° © 52'48	
direct evening set	859 Feb 24 j 09:02 859 May 28 j 16:57	22° Ⅲ 03'51 25° Ⅲ 20'51		conjunction	865 Jul 12 j 20:10	23° © 54'15	0°31'19
			0012120	minimum elong	865 Jul 12 j 20:09	23°954'15	0°31'19
conjunction minimum elong	859 Jun 14 j 11:58 859 Jun 14 j 11:58	26° Ⅱ 21'04 26° Ⅱ 21'04	0°13'38 0°13'38	max. Earth dist. morning rise	865 Jul 11 j 19:34 865 Jul 29 j 12:28	23°950'28 24°955'26	19.55432 AU
behind sun begin	859 Jun 14 j 08:27	26° Ⅱ 20'33		retrograde	865 Oct 30 j 01:43	28°©15'56	0027112
behind sun end max. Earth dist.	859 Jun 14 j 15:28 859 Jun 13 j 19:32	26° Ⅱ 21'35 26° Ⅱ 18'36	19.87073 AU	opposition min. Earth dist.	866 Jan 11 j 17:20 866 Jan 12 j 14:41	26°©13'29 26°©11'09	0°36'13 17.53224 AU
morning rise	859 Jul 01 j 06:55	27° I [21'19		direct	866 Mar 28 j 02:51	24°508'18	
retrograde	859 Aug 25 j 01:30 859 Oct 02 j 16:26	0.ಣ38,08 0.ಣ		evening set	866 Jul 01 j 05:09	27° © 33'26	
•4•	859 Nov 10 j 19:44	30°RⅡ 200Ⅲ36147	0017157	conjunction	866 Jul 17 j 23:05	28°535'01	0°33'43
opposition min. Earth dist.	859 Dec 16 j 03:17 859 Dec 16 j 17:17	28° Ⅱ 36'47 28° Ⅱ 35'16	0°16'56 17.84139 AU	minimum elong max. Earth dist.	866 Jul 17 j 23:05 866 Jul 16 j 21:35	28°©35'01 28°©31'04	0°33'42 19.51049 AU
direct	860 Feb 29 j 01:41	26° I I33'26		morning rise	866 Aug 03 j 14:43	29° © 36'16	
evening set	860 Jun 01 j 16:20 860 Jun 04 j 00:35	29° ∏ 51'41 0° ©		retrograde	866 Aug 10 j 06:07 866 Nov 04 j 00:41	0° Ω 2° Ω 57'05	
				opposition	867 Jan 16 j 13:57	0° Ω 54'35	0°38'46
conjunction minimum elong	860 Jun 18 j 11:40 860 Jun 18 j 11:40	0°952'10	0°16'52 0°16'52	min. Earth dist.	867 Jan 17 j 11:01 867 Feb 07 j 02:57	0° {\2 52'17 30° R ©	17.49022 AU
max. Earth dist.	860 Jun 17 j 18:48		19.81267 AU	direct	867 Apr 02 j 03:34	28° © 49'07	
morning rise retrograde	860 Jul 05 j 06:21 860 Oct 06 j 13:29	1°©52'37 5°©10'58		evening set	867 May 24 j 20:07 867 Jul 06 j 08:57	0°Ω 2°Ω15'10	
opposition	860 Dec 19 j 19:42	3°508'36	0°20'29	max. Earth dist.	867 Jul 22 j 00:31		19.47035 AU
min. Earth dist. direct	860 Dec 20 j 10:19 861 Mar 04 j 19:52	3°507'01 1°504'57	17.78440 AU	conjunction	867 Jul 23 j 02:24	3° Ω 16'50	0°35'53
evening set	861 Jun 06 j 16:55	4° 5 24'28		minimum elong	867 Jul 23 j 02:24	3° Ω 16′50	0°35'53
conjunction	861 Jun 23 j 12:07	5° © 25'11	0°20'00	morning rise retrograde	867 Aug 08 j 17:08 867 Nov 08 j 22:21	4° Ω 18'09 7° Ω 39'13	
minimum elong	861 Jun 23 j 12:07	5°525'11	0°20'00	opposition	868 Jan 21 j 11:14	5° Ω 36'42	
max. Earth dist. morning rise	861 Jun 22 j 16:43 861 Jul 10 j 06:35	5°©22'14 6°©25'49	19.75670 AU	min. Earth dist. direct	868 Jan 22 j 09:50 868 Apr 06 j 02:41	5° {\? 34'13} 3° \? 30'57	17.45230 AU
retrograde	861 Oct 11 j 10:05	9° 5 44'41		evening set	868 Jul 10 j 13:04	6° Ω 57'50	
opposition min. Earth dist.	861 Dec 24 j 12:57 861 Dec 25 j 05:41	7°542'19 7°540'30	0°23'57 17.72960 AU	max. Earth dist.	868 Jul 26 j 02:59	7° Ω 55'25	19.43473 AU
direct	862 Mar 09 j 14:14	5° © 38'21	17.72700110	conjunction	868 Jul 27 j 05:49	7° Ω 59'35	0°37'49
evening set	862 Jun 11 j 18:07	8° © 59'06		minimum elong morning rise	868 Jul 27 j 05:49 868 Aug 12 j 19:50	7° Ω 59'35 9° Ω 00'56	0°37'49
conjunction	862 Jun 28 j 13:22	10°500'02	0°23'03	retrograde	868 Nov 12 j 21:55	12° Ω 22'12	
minimum elong max. Earth dist.	862 Jun 28 j 13:21 862 Jun 27 j 17:13	10°500'02	0°23'04 19.70286 AU	opposition min. Earth dist.	869 Jan 25 j 08:58 869 Jan 26 j 06:59	10° Ω 19'39	0°43'06 17.41909 AU
morning rise	862 Jul 15 j 07:22	11° © 00'50	19.70280 AU	direct	869 Apr 11 j 05:07	8° Ω 13'39	17.41909 AU
retrograde	862 Oct 16 j 08:16	14°920'10	0027117	evening set	869 Jul 15 j 17:17	11° Ω 41'17	10.40206.433
opposition min. Earth dist.	862 Dec 29 j 06:58 862 Dec 30 j 00:06	12°©17'48 12°©15'56	0°27'16 17.67677 AU	max. Earth dist.	869 Jul 31 j 07:11	12-8639.00	19.40396 AU
direct	863 Mar 14 j 10:39	10°©13'33		conjunction	869 Aug 01 j 09:24	12° Ω 43'05	0°39'29
evening set	863 Jun 16 j 19:59	13° © 35'28		minimum elong morning rise	869 Aug 01 j 09:24 869 Aug 17 j 22:17	12° Ω 43'05 13° Ω 44'27	0°39'30

	869 Sep 08 j 17:37	15° Ω		opposition	876 Feb 28 j 07:00	13° m 35'09	0°48'36
retrograde	869 Nov 17 j 20:04	17° Ω 05'52		min. Earth dist.	876 Feb 29 j 03:10	13° m 32'58	17.34891 AU
opposition	870 Jan 30 j 07:24	15° Ω 03'19	0°44'50	direct	876 May 14 j 19:05	11°Mp28'56	
min. Earth dist.	870 Jan 31 j 06:21	15° Ω 00'49	17.39111 AU	evening set	876 Aug 18 j 22:21	14° m 59'06	
	870 Jan 31 j 13:45	15°R Ω		max. Earth dist.	876 Sep 03 j 08:24	15°M 56'51	19.35380 AU
direct	870 Apr 16 j 05:23	12° Ω 57'08					
	870 Jun 26 j 00:58	15° Ω		conjunction	876 Sep 04 j 07:29	16° Mp 00′29	0°43'23
evening set	870 Jul 20 j 21:42	16° Ω 25'25		minimum elong	876 Sep 04 j 07:29	16°Mp00′29	0°43'22
max. Earth dist.	870 Aug 05 j 09:55	17° Ω 23'02	19.37891 AU	morning rise	876 Sep 20 j 12:47	17° m 01'18	
		. = . 0 - =		retrograde	876 Dec 20 j 19:28	20° m 22'44	
conjunction	870 Aug 06 j 12:52	17° Ω 27'14		opposition	877 Mar 04 j 08:14	18° m 20'53	0°48'04
minimum elong	870 Aug 06 j 12:52	17° Ω 27'14 18° Ω 28'35	0°40'55	min. Earth dist.	877 Mar 05 j 04:01	-•	17.36066 AU
morning rise	870 Aug 23 j 00:54 870 Nov 22 j 20:19	21° Ω 50'08		direct	877 May 19 j 21:56	16° m 14'46 19° m 44'50	
retrograde opposition	870 Nov 22 j 20.19 871 Feb 04 j 06:13	19° Ω 47'36	0046!16	evening set	877 Aug 24 j 01:28	19 11/44 30	
min. Earth dist.	871 Feb 04 j 00:13		17.36912 AU	conjunction	877 Sep 09 j 09:32	20° m 46'03	0°42'45
direct	871 Apr 21 j 07:54	17° Ω 41'16	17.50712710	minimum elong	877 Sep 09 j 09:32	20° Mp 46'03	0°42'46
evening set	871 Jul 26 j 01:53	21°Ω10'07		max. Earth dist.	877 Sep 08 j 12:10	-•	19.36776 AU
evening sec	0/13ul 20 j 01.55	21 001007		morning rise	877 Sep 25 j 13:36	21° Mp 46'42	17.50770110
conjunction	871 Aug 11 j 16:21	22° Ω 11'56	0°42'03	retrograde	877 Dec 25 j 19:30	25° m 07'55	
minimum elong	871 Aug 11 j 16:21	22° Ω 11'56		opposition	878 Mar 09 j 09:38	23° m 06'12	0°47'12
max. Earth dist.	871 Aug 10 j 14:50	22° Ω 07'57	19.35990 AU	min. Earth dist.	878 Mar 10 j 04:11	23° m 04'11	17.37667 AU
morning rise	871 Aug 28 j 03:12	23° Ω 13'15		direct	878 May 25 j 03:05	21° m 00'13	
retrograde	871 Nov 27 j 19:46	26° Ω 34'53		evening set	878 Aug 29 j 04:13	24° Mp 30'02	
opposition	872 Feb 09 j 05:38	24° Ω 32'25	0°47'23				
min. Earth dist.	872 Feb 10 j 03:59	24° Ω 29'59	17.35321 AU	conjunction	878 Sep 14 j 11:04	25° m 31'04	0°41'50
direct	872 Apr 25 j 08:58	22° Ω 26′00		minimum elong	878 Sep 14 j 11:04	25° Mp 31'04	
evening set	872 Jul 30 j 06:22	25° Ω 55'20		max. Earth dist.	878 Sep 13 j 14:08	-•	19.38594 AU
		_		morning rise	878 Sep 30 j 14:01	26°My31'33	
conjunction	872 Aug 15 j 19:44	26° Ω 57'07	0°42'54	retrograde	878 Dec 30 j 17:12	29° m 52'31	
minimum elong	872 Aug 15 j 19:44	26° Ω 57'07		opposition	879 Mar 14 j 11:04	27° m 50'53	0°46'01
max. Earth dist.	872 Aug 14 j 17:35		19.34719 AU	min. Earth dist.	879 Mar 15 j 05:19	-•	17.39705 AU
morning rise	872 Sep 01 j 05:40 872 Oct 08 j 04:41	27° Ω 58′23 0° ™		direct	879 May 30 j 05:48	25° m 45'01 29° m 14'29	
retrograde	872 Dec 01 j 20:11	1° Mp 20'04		evening set	879 Sep 03 j 06:12 879 Sep 15 j 10:36	0° ت الأالخ	
retrograde	072 DCC 01 j 20.11	דיייט ביי עווי ז					
	873 Ian 27 i 17:24	30°₽. Ω					
opposition	873 Jan 27 j 17:24 873 Feb 13 j 05:17	30°R Ω 29° Ω 17'42	0°48'11	conjunction		0° ≏ 15'20	0°40'38
opposition min. Earth dist.	873 Feb 13 j 05:17	29° Ω 17'42		conjunction minimum elong	879 Sep 19 j 11:58	0° £ 15'20 0° £ 15'20	
	873 Feb 13 j 05:17 873 Feb 14 j 02:48	29° Ω 17'42	0°48'11 17.34363 AU	conjunction minimum elong max. Earth dist.		0° ≙ 15′20	
min. Earth dist.	873 Feb 13 j 05:17	29° Ω 17'42 29° Ω 15'21		minimum elong	879 Sep 19 j 11:58 879 Sep 19 j 11:58	0° ≙ 15′20	0°40'38
min. Earth dist.	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56	29°Ω17'42 29°Ω15'21 27°Ω11'16		minimum elong max. Earth dist.	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34	0° £ 15′20 0° £ 12′17	0°40'38
min. Earth dist. direct	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30	29° N 17'42 29° N 15'21 27° N 11'16 0° M		minimum elong max. Earth dist. morning rise	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50	0° ⊆ 15'20 0° ⊆ 12'17 1° ⊆ 15'37	0°40'38
min. Earth dist. direct	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09	29° N 17'42 29° N 15'21 27° N 11'16 0° M	17.34363 AU	minimum elong max. Earth dist. morning rise retrograde	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44	0° № 15'20 0° № 12'17 1° № 15'37 4° № 36'15 2° № 34'43	0°40'38 19.40845 AU
min. Earth dist. direct evening set conjunction minimum elong	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09	29° \$\mathcal{O}\$17'42 29° \$\mathcal{O}\$15'21 27° \$\mathcal{O}\$11'16 0° mp 0° mp 40'59 1° mp 42'43 1° mp 42'43	17.34363 AU 0°43'28 0°43'27	minimum elong max. Earth dist. morning rise retrograde opposition	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01	0° Ω 15'20 0° Ω 12'17 1° Ω 15'37 4° Ω 36'15 2° Ω 34'43 2° Ω 32'57 0° Ω 29'01	0°40'38 19.40845 AU 0°44'31
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48	29° \$\mathcal{O}\$17'42 29° \$\mathcal{O}\$15'21 27° \$\mathcal{O}\$11'16 0° mp 0° mp 40'59 1° mp 42'43 1° mp 42'43	17.34363 AU 0°43'28	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54	0° £ 15'20 0° £ 12'17 1° £ 15'37 4° £ 36'15 2° £ 34'43 2° £ 32'57	0°40'38 19.40845 AU 0°44'31
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48	29° \$\Omega 17'42 29° \$\Omega 15'21 27° \$\Omega 11'16 0° \$\Omega 40'59 1° \$\Omega 42'43 1° \$\Omega 42'43 1° \$\Omega 38'54 2° \$\Omega 43'54	17.34363 AU 0°43'28 0°43'27	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37	0°£15'20 0°£12'17 1°£15'37 4°£36'15 2°£34'43 2°£32'57 0°£29'01 3°£58'00	0°40'38 19.40845 AU 0°44'31 17.42145 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37	29° \$\Omega 17'42 29° \$\Omega 15'21 27° \$\Omega 11'16 0° \$\overline{m}\$ 0° \$\overline{m}\$ 40'59 1° \$\overline{m}\$ 42'43 1° \$\overline{m}\$ 42'43 1° \$\overline{m}\$ 38'54 2° \$\overline{m}\$ 43'54 6° \$\overline{m}\$ 05'35	17.34363 AU 0°43'28 0°43'27 19.34063 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37	0° \$\Delta 15'20\) 0° \$\Delta 12'17\) 1° \$\Delta 15'37\) 4° \$\Delta 36'15\) 2° \$\Delta 34'43\) 2° \$\Delta 32'57\) 0° \$\Delta 29'01\) 3° \$\Delta 58'00\) 4° \$\Delta 58'38\)	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35	29° \$\alpha 17'42 29° \$\alpha 15'21 27° \$\alpha 11'16 0° \$\text{m}\$ 0° \$\text{m}\$ 40'59 1° \$\text{m}\$ 42'43 1° \$\text{m}\$ 43'54 2° \$\text{m}\$ 43'54 6° \$\text{m}\$ 05'35 4° \$\text{m}\$ 03'21	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12	0°£15'20 0°£12'17 1°£15'37 4°£36'15 2°£34'43 2°£32'57 0°£29'01 3°£58'00 4°£58'38	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57	29° \$\alpha 17'42 29° \$\alpha 15'21 27° \$\alpha 11'16 0° \$\text{m}\$ 0° \$\text{m}\$ 40'59 1° \$\text{m}\$ 42'43 1° \$\text{m}\$ 43'54 2° \$\text{m}\$ 43'54 6° \$\text{m}\$ 05'35 4° \$\text{m}\$ 03'21 4° \$\text{m}\$ 01'02	17.34363 AU 0°43'28 0°43'27 19.34063 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59	0° \(\Omega\) 15'20 0° \(\Omega\) 12'17 1° \(\Omega\) 15'37 4° \(\Omega\) 36'15 2° \(\Omega\) 3'4'43 2° \(\Omega\) 32'57 0° \(\Omega\) 29'01 3° \(\Omega\) 58'38 4° \(\Omega\) 58'38 4° \(\Omega\) 55'46	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57 874 May 05 j 13:06	29° \$\alpha 17'42 29° \$\alpha 15'21 27° \$\alpha 11'16 0° \$\text{m}\$ 0° \$\text{m}\$ 40'59 1° \$\text{m}\$ 42'43 1° \$\text{m}\$ 42'43 1° \$\text{m}\$ 38'54 2° \$\text{m}\$ 43'54 6° \$\text{m}\$ 03'21 4° \$\text{m}\$ 01'02 1° \$\text{m}\$ 56'58	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59 880 Oct 09 j 12:56	0° \(\Omega\) 15'20 0° \(\Omega\) 12'17 1° \(\Omega\) 15'37 4° \(\Omega\) 36'15 2° \(\Omega\) 34'43 2° \(\Omega\) 32'57 0° \(\Omega\) 29'01 3° \(\Omega\) 58'30 4° \(\Omega\) 58'38 4° \(\Omega\) 55'46 5° \(\Omega\) 58'42	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57 874 May 05 j 13:06 874 Aug 09 j 14:44	29° \$\alpha 17'42 29° \$\alpha 15'21 27° \$\alpha 11'16 0° \$\text{m}\$ 0° \$\text{m}\$ 40'59 1° \$\text{m}\$ 42'43 1° \$\text{m}\$ 38'54 2° \$\text{m}\$ 43'54 6° \$\text{m}\$ 03'21 4° \$\text{m}\$ 01'02 1° \$\text{m}\$ 56'58 5° \$\text{m}\$ 26'57	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39 17.33995 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	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59 880 Oct 09 j 12:56 881 Jan 08 j 13:33	0° \omega 15'20 0° \omega 12'17 1° \omega 15'37 4° \omega 36'15 2° \omega 34'43 2° \omega 32'57 0° \omega 29'01 3° \omega 58'30 4° \omega 58'38 4° \omega 58'38 4° \omega 55'46 5° \omega 58'42 9° \omega 18'59	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09 19.43496 AU
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min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57 874 May 05 j 13:06 874 Aug 09 j 14:44 874 Aug 25 j 01:19	29° \$\mathcal{O}_17'42 29° \$\mathcal{O}_15'21 27° \$\mathcal{O}_11'16 0° my 0° my 40'59 1° my 42'43 1° my 42'43 1° my 38'54 2° my 43'54 6° my 03'21 4° my 01'02 1° my 56'58 5° my 26'57 6° my 24'42	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39 17.33995 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.	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59 880 Oct 09 j 12:56 881 Jan 08 j 13:33 881 Mar 23 j 13:47 881 Mar 24 j 05:55	0° \(\Omega\) 15'20 0° \(\Omega\) 12'17 1° \(\Omega\) 15'37 4° \(\Omega\) 36'15 2° \(\Omega\) 34'43 2° \(\Omega\) 32'57 0° \(\Omega\) 29'01 3° \(\Omega\) 58'00 4° \(\Omega\) 58'38 4° \(\Omega\) 58'42 9° \(\Omega\) 18'59 7° \(\Omega\) 17'31 7° \(\Omega\) 15'48	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09 19.43496 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57 874 May 05 j 13:06 874 Aug 09 j 14:44 874 Aug 25 j 01:19	29° \$\mathcal{O}_17'42 29° \$\mathcal{O}_15'21 27° \$\mathcal{O}_11'16 0° m 0° m 40'59 1° m 42'43 1° m 42'43 1° m 38'54 2° m 43'54 6° m 05'35 4° m 03'21 4° m 01'02 1° m 56'58 5° m 26'57 6° m 24'42 6° m 28'35	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39 17.33995 AU 19.33985 AU 0°43'44	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	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59 880 Oct 09 j 12:56 881 Jan 08 j 13:33 881 Mar 23 j 13:47 881 Mar 24 j 05:55 881 Jun 08 j 13:14	0° \(\Omega\) 15'20 0° \(\Omega\) 12'17 1° \(\Omega\) 15'37 4° \(\Omega\) 36'15 2° \(\Omega\) 34'43 2° \(\Omega\) 32'57 0° \(\Omega\) 29'01 3° \(\Omega\) 58'00 4° \(\Omega\) 58'38 4° \(\Omega\) 58'38 4° \(\Omega\) 58'42 9° \(\Omega\) 18'59 7° \(\Omega\) 17'31 7° \(\Omega\) 15'48 5° \(\Omega\) 11'59	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09 19.43496 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57 874 Aug 09 j 14:44 874 Aug 25 j 01:19	29° \$\alpha 17'42 29° \$\alpha 15'21 27° \$\alpha 11'16 0° m 0° m 40'59 1° m 42'43 1° m 42'43 1° m 38'54 2° m 43'54 6° m 05'35 4° m 03'21 4° m 01'02 1° m 56'58 5° m 26'57 6° m 24'42 6° m 28'35 6° m 28'35	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39 17.33995 AU 19.33985 AU 0°43'44	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.	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59 880 Oct 09 j 12:56 881 Jan 08 j 13:33 881 Mar 23 j 13:47 881 Mar 24 j 05:55	0° \(\Omega\) 15'20 0° \(\Omega\) 12'17 1° \(\Omega\) 15'37 4° \(\Omega\) 36'15 2° \(\Omega\) 34'43 2° \(\Omega\) 32'57 0° \(\Omega\) 29'01 3° \(\Omega\) 58'00 4° \(\Omega\) 58'38 4° \(\Omega\) 58'42 9° \(\Omega\) 18'59 7° \(\Omega\) 17'31 7° \(\Omega\) 15'48	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09 19.43496 AU
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min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set retrograde opposition min. Earth dist. direct evening set max. Earth dist.	873 Feb 13 j 05:17 873 Feb 14 j 02:48 873 Apr 30 j 10:56 873 Jul 24 j 00:30 873 Aug 04 j 10:37 873 Aug 20 j 23:09 873 Aug 20 j 23:09 873 Aug 19 j 22:48 873 Sep 06 j 07:48 873 Dec 06 j 20:37 874 Feb 18 j 05:35 874 Feb 19 j 02:57 874 May 05 j 13:06 874 Aug 20 j 14:44 874 Aug 25 j 01:19 874 Aug 26 j 02:02 874 Aug 26 j 02:02 874 Aug 26 j 02:02 874 Sep 11 j 09:41 874 Dec 11 j 20:25 875 Feb 23 j 06:11 875 Feb 24 j 02:54 875 May 10 j 15:09 875 Aug 30 j 06:03	29° \$\alpha 17'42 29° \$\alpha 15'21 27° \$\alpha 11'16 0° my 0° my 40'59 1° my 42'43 1° my 42'43 1° my 38'54 2° my 43'54 6° my 03'21 4° my 01'02 1° my 56'58 5° my 26'57 6° my 24'42 6° my 28'35 7° my 29'41 10° my 51'21 8° my 49'15 8° my 46'59 6° my 42'55 10° my 13'03 11° my 10'59 11° my 14'35	17.34363 AU 0°43'28 0°43'27 19.34063 AU 0°48'39 17.33995 AU 19.33985 AU 0°43'44 0°43'44 19.34195 AU 19.34442 AU 0°43'42	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 minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	879 Sep 19 j 11:58 879 Sep 19 j 11:58 879 Sep 18 j 16:34 879 Oct 05 j 13:50 880 Jan 04 j 16:44 880 Mar 18 j 12:26 880 Mar 19 j 04:54 880 Jun 03 j 11:01 880 Sep 07 j 07:37 880 Sep 23 j 12:12 880 Sep 23 j 12:12 880 Sep 22 j 17:59 880 Oct 09 j 12:56 881 Jan 08 j 13:33 881 Mar 23 j 13:47 881 Mar 24 j 05:55 881 Jun 08 j 13:14 881 Sep 12 j 08:10 881 Sep 28 j 11:36 881 Sep 28 j 11:36 881 Sep 27 j 18:52 881 Oct 14 j 11:21 882 Jan 13 j 12:22 882 Mar 28 j 14:54 882 Mar 29 j 04:37 882 Jun 13 j 17:30	0° \(\Omega\) 15'20 0° \(\Omega\) 12'17 1° \(\Omega\) 15'37 4° \(\Omega\) 36'15 2° \(\Omega\) 34'43 2° \(\Omega\) 25'57 0° \(\Omega\) 29'01 3° \(\Omega\) 58'00 4° \(\Omega\) 58'38 4° \(\Omega\) 58'38 4° \(\Omega\) 58'42 9° \(\Omega\) 18'59 7° \(\Omega\) 17'31 7° \(\Omega\) 15'48 5° \(\Omega\) 11'59 8° \(\Omega\) 40'24 9° \(\Omega\) 40'46 9° \(\Omega\) 40'46 9° \(\Omega\) 40'46 9° \(\Omega\) 40'38 14° \(\Omega\) 00'30 11° \(\Omega\) 57'39 9° \(\Omega\) 53'45	0°40'38 19.40845 AU 0°44'31 17.42145 AU 0°39'09 0°39'09 19.43496 AU 0°42'43 17.45010 AU 0°37'25 0°37'25 19.46586 AU 0°40'38 17.48308 AU

	002 0-4 02 : 10-04	149 0 21127	0025127		000 E-1- 14: 00:27	169 M 11105	
minimum elong	882 Oct 03 j 10:04	14° £ 21'37		retrograde	889 Feb 14 j 08:27	16°M11'05	
max. Earth dist.	882 Oct 02 j 19:29		19.50112 AU		889 Apr 10 j 07:06	15°RM	0000100
morning rise	882 Oct 19 j 08:45	15° £ 21'14		opposition	889 Apr 30 j 14:26	14°M 10'45	
retrograde	883 Jan 18 j 08:27	18° ≙ 40'41		min. Earth dist.	889 Apr 30 j 15:56		17.83714 AU
opposition	883 Apr 02 j 15:55	16° ≏ 39'22		direct	889 Jul 16 j 20:27	12°M07'50	
min. Earth dist.	883 Apr 03 j 05:00		17.52066 AU		889 Oct 11 j 01:35	15°ML	
direct	883 Jun 18 j 18:46	14° ≏ 34'13		evening set	889 Oct 19 j 04:50	15°M28'56	
evening set	883 Sep 22 j 06:30	18° ഫ 01'10					
				conjunction	889 Nov 04 j 00:11	16°M27'05	0°16'26
conjunction	883 Oct 08 j 07:42	19° ഫ 01'02	0°33'14	minimum elong	889 Nov 04 j 00:11	16°M27'05	0°16'27
minimum elong	883 Oct 08 j 07:42	19° ഫ 01'02	0°33'13	max. Earth dist.	889 Nov 03 j 23:03	16°M26'55	19.86862 AU
max. Earth dist.	883 Oct 07 j 18:33	18° ≙ 58'59	19.54112 AU	morning rise	889 Nov 19 j 17:26	17° M 24'55	
morning rise	883 Oct 24 j 05:32	20° ♀ 00'26		retrograde	890 Feb 19 j 03:50	20°M40'55	
retrograde	884 Jan 23 j 06:24	23° ₽ 19'24		opposition	890 May 05 j 12:43	18° M 40'45	0°16'29
opposition	884 Apr 06 j 16:21	21° ≏ 18'11	0°35'43	min. Earth dist.	890 May 05 j 11:51	18°ML40'51	17.90009 AU
min. Earth dist.	884 Apr 07 j 02:37		17.56295 AU	direct	890 Jul 21 j 19:30	16°M38'14	
direct	884 Jun 22 j 21:27	19° £ 13'18	17.00270110	evening set	890 Oct 23 j 21:22	19°M58'12	
evening set	884 Sep 26 j 04:25	22° ₽ 39'25		evening sec	0,0 00t 25 j 21.22	17 1103012	
evening set	004 5ср 20 ј 04.25	22 -3723		conjunction	890 Nov 08 j 16:08	20°M56'04	0°13'13
aamiumatiam	994 Oat 12:04:29	220 0 20102	0°30'50	,	890 Nov 08 j 16:08	20°M56'04	0°13'13
conjunction	884 Oct 12 j 04:38	23° ₽ 39'02		minimum elong	•		0 13 13
minimum elong	884 Oct 12 j 04:38	23° ₽ 39'02	0°30'50	behind sun begin	890 Nov 08 j 12:11	20°M55'29	
max. Earth dist.	884 Oct 11 j 18:13		19.58582 AU	behind sun end	890 Nov 08 j 20:05	20°M56'40	
morning rise	884 Oct 28 j 01:23	24° ≏ 38'09		max. Earth dist.	890 Nov 08 j 17:54		19.93208 AU
retrograde	885 Jan 27 j 01:50	27° ≏ 56'39		morning rise	890 Nov 24 j 08:41	21°M53'39	
opposition	885 Apr 11 j 16:51	25° ≏ 55'35	0°32'55	retrograde	891 Feb 23 j 19:48	25°M09'05	
min. Earth dist.	885 Apr 12 j 02:10	25° £ 54'36	17.61002 AU	opposition	891 May 10 j 10:32	23°M09'06	0°12'52
direct	885 Jun 27 j 21:24	23° ₽ 51'01		min. Earth dist.	891 May 10 j 08:31	23°M09'18	17.96385 AU
evening set	885 Oct 01 j 01:25	27° ≙ 16'14		direct	891 Jul 26 j 17:29	21°ML07'00	
				evening set	891 Oct 28 j 13:19	24°ML25'47	
conjunction	885 Oct 17 j 00:27	28° ₽ 15'33	0°28'14				
minimum elong	885 Oct 17 j 00:27	28° ₤ 15'33	0°28'15	conjunction	891 Nov 13 j 07:10	25°M23'20	0°09'57
max. Earth dist.	885 Oct 16 j 15:24	28° ≙ 14'09	19.63532 AU	minimum elong	891 Nov 13 j 07:10	25°M23'20	0°09'56
morning rise	885 Nov 01 j 20:30	29° ₽ 14'26		behind sun begin	891 Nov 13 j 01:48	25°M22'32	
morning not	885 Nov 14 j 15:48	0°M		behind sun end	891 Nov 13 j 12:32	25°M24'08	
retrograde	886 Jan 31 j 23:32	2°M32'28		max. Earth dist.	891 Nov 13 j 12:32 891 Nov 13 j 09:28		19.99607 AU
•			0920157		3	26°M20'40	19.99007 AU
opposition	886 Apr 16 j 16:48	0°M31'33	0°29'56	morning rise	891 Nov 28 j 23:24		
min. Earth dist.	886 Apr 16 j 23:05		17.66164 AU	retrograde	892 Feb 28 j 13:24	29°M35'32	
	886 Apr 29 j 07:40	30° ₹ Ω		opposition	892 May 14 j 07:41	27°M35'41	0°09'11
direct	886 Jul 02 j 22:30	28° ≏ 27'21		min. Earth dist.	892 May 14 j 03:44		18.02797 AU
	886 Sep 02 j 03:19	0°M₊		direct	892 Jul 30 j 14:34	25°M33'57	
evening set	886 Oct 05 j 21:30	1°M51'37		evening set	892 Nov 01 j 04:14	28°M51'32	
conjunction	886 Oct 21 j 19:42	2°M50'39	0°25'29	conjunction	892 Nov 16 j 21:34	29°M48'49	0°06'38
minimum elong	886 Oct 21 j 19:42	2°M50'39	0°25'29	minimum elong	892 Nov 16 j 21:35	29°M48'49	0°06'39
max. Earth dist.	886 Oct 21 j 13:41	2°M49'43	19.68903 AU	behind sun begin	892 Nov 16 j 15:26	29° M 47'54	
morning rise	886 Nov 06 j 14:49	3°M49'16		behind sun end	892 Nov 17 j 03:44	29°M49'44	
retrograde	887 Feb 05 j 18:06	7° M .06'48		max. Earth dist.	892 Nov 17 j 02:35	29°M49'33	20.06011 AU
opposition	887 Apr 21 j 16:22	5°M06'05	0°26'47		892 Nov 19 j 22:41	0° ∡ 7	
min. Earth dist.	887 Apr 21 j 21:41		17.71720 AU	morning rise	892 Dec 02 j 13:14	0° ∡ 745'52	
direct	887 Jul 07 j 21:35	3°ML02'18		retrograde	893 Mar 04 j 04:19	4°×700'10	
evening set	887 Oct 10 j 16:51	6°M25'33		opposition	893 May 19 j 04:23	2°×700'26	0°05'28
evening set	887 Oct 10 j 10.31	0 1162333		min. Earth dist.	893 May 18 j 23:01		18.09177 AU
	007.0-4 26:12.50	70 m 24110	092212.5	IIIII. Eartii tist.			18.091// AU
conjunction	887 Oct 26 j 13:59	7°M24'18	0°22'35		893 Jul 29 j 08:47	30°RM	
minimum elong	887 Oct 26 j 13:59	7° M ₊24'18	0°22'36	direct	893 Aug 04 j 11:16	29°M59'04	
max. Earth dist.	887 Oct 26 j 08:59		19.74639 AU		893 Aug 10 j 11:24	0° ∡ ¹	
morning rise	887 Nov 11 j 08:32	8°M22'40		evening set	893 Nov 05 j 18:16	3° ҂ 15′24	
retrograde	888 Feb 10 j 14:56	11°M39'42					
opposition	888 Apr 25 j 15:31	9°M39'10	0°23'28	conjunction	893 Nov 21 j 10:53	4° ≯ 12'23	0°03'18
min. Earth dist.	888 Apr 25 j 18:06	9°M38'54	17.77601 AU	minimum elong	893 Nov 21 j 10:53	4° ҂ 12'23	0°03'18
direct	888 Jul 11 j 21:41	7°MJ35'48		behind sun begin	893 Nov 21 j 04:22	4° ∡ 11′26	
evening set	888 Oct 14 j 11:10	10°M58'01		behind sun end	893 Nov 21 j 17:23	4° х 13′21	
				max. Earth dist.	893 Nov 21 j 16:29	4° ∡ 13'13	20.12372 AU
conjunction	888 Oct 30 j 07:33	11°M56'28	0°19'34	morning rise	893 Dec 07 j 02:24	5° ∡ 09'13	
minimum elong	888 Oct 30 j 07:33	11°ML56'28	0°19'33	retrograde	894 Mar 08 j 20:02	8° ∡ ¹22'56	
max. Earth dist.	888 Oct 30 j 05:36		19.80647 AU	opposition	894 May 24 j 00:21	6°×223'15	0°01'45
morning rise	888 Nov 15 j 01:14	12°M54'34	-2.0001/110	min. Earth dist.	894 May 23 j 17:22		18.15517 AU
morning 1150	888 Dec 24 j 04:59	12 1163434 15°M		direct	894 Aug 09 j 05:53	6 x ·23 38 4° x ⁷ 22'13	10.1331/AU
	000 DCC 24 J U4.39	15 116		uncei	077 Aug 07 J 03.33	T × 22 13	

evening set	894 Nov 10 j 07:20	7° ∡ 37'19		max. Earth dist.	899 Dec 17 j 18:25	29° ₹55'47	20.49523 AU
desc. node	894 Nov 14 j 06:47	7° ₹ '51'32		max. Lartii dist.	899 Dec 18 j 22:40	20×3347	20.47323 AO
dese. Hode	074110V 14 J 00.47	7 7 3132		morning rise	900 Jan 01 j 17:34	0° ರ 48'57	
conjunction	894 Nov 25 j 23:35	8° ₹ 34'01 -0°0	00'07	retrograde	900 Apr 03 j 03:26	3° ප 59'24	
minimum elong	894 Nov 25 j 23:36		00'06	opposition	900 Jun 19 j 08:24	2° ප 00'07	-0°19'27
behind sun begin	894 Nov 25 j 17:19	8° ≯ 33'06	00 00	min. Earth dist.	900 Jun 18 j 16:01		18.52531 AU
behind sun end	894 Nov 26 j 05:53	8° ∡ ³34'57		direct	900 Sep 04 j 05:45	2 ප 01 40	10.32331710
max. Earth dist.	894 Nov 26 j 07:49	8° ₹ 35'15 20.	18677 AU	evening set	900 Dec 04 j 20:19	3°₹09'08	
morning rise	894 Dec 11 j 14:44	9° × ⁷ 30'36	10077110	evening sec	500 Bec 01 j 20.15	3 300 00	
retrograde	895 Mar 13 j 10:11	12° ⊀ 43'42		conjunction	900 Dec 20 j 10:54	4° ට 04'23	-0°19'02
opposition	895 May 28 j 19:23	12 × 43 42 10° × 44'06 -0°(01'57	minimum elong	900 Dec 20 j 10:53	4°る04'23	
min. Earth dist.	895 May 28 j 10:48	10° × 44'58 18.2		max. Earth dist.	900 Dec 21 j 04:56		20.55499 AU
direct	895 Aug 14 j 01:10	8° ₹ 43'22	21702 AO	morning rise	901 Jan 05 j 01:59	4°る59'45	20.334)) AO
evening set	895 Nov 14 j 19:38	11° ₹ 57'13		retrograde	901 Apr 07 j 15:46	8°る09'47	
evening set	693 NOV 14 J 19.36	11 X 3/13		opposition	901 Apr 07 j 13:40 901 Jun 23 j 23:21	6°る10'37	0022120
conjunction	895 Nov 30 j 11:18	12° ₹ 53'39 -0°0	02!20	min. Earth dist.	901 Jun 23 j 23:21 901 Jun 23 j 04:53		18.58424 AU
minimum elong	895 Nov 30 j 11:17		03'30	direct	901 Sep 08 j 19:23	4°る11'53	16.36424 AU
_	895 Nov 30 j 11:17	12 x 53339 0 €	03 30			7° る 18'59	
behind sun begin	,			evening set	901 Dec 09 j 04:08	/ 61839	
behind sun end max. Earth dist.	895 Nov 30 j 17:47	12° 🖈 54'36	24015 ATT		001 D 24:10.24	00=714102	0021151
	895 Nov 30 j 20:15	12° 🗷 54'59 20.3	.24915 AU	conjunction	901 Dec 24 j 18:34	8°る14'03	
morning rise	895 Dec 16 j 02:23	13° ₹ 50'00		minimum elong	901 Dec 24 j 18:34	8° 궁 14'03	
retrograde	896 Mar 17 j 00:15	17° ₹ 02'30	0.510.5	max. Earth dist.	901 Dec 25 j 13:16		20.61295 AU
opposition	896 Jun 01 j 13:53	15° ∡ '02'56 -0°(morning rise	902 Jan 09 j 10:01	9° る 09'16	
min. Earth dist.	896 Jun 01 j 03:53	15° ∡ '03'57 18.2	28009 AU	retrograde	902 Apr 12 j 03:11	12° る 18'55	
direct	896 Aug 17 j 17:25	13° ∡ ′02′29		opposition	902 Jun 28 j 13:50	10° る 19'52	
evening set	896 Nov 18 j 06:45	16° ∡ 15′06		min. Earth dist.	902 Jun 27 j 19:00		18.64122 AU
				direct	902 Sep 13 j 06:41	8° る 21'29	
conjunction	896 Dec 03 j 22:10	17° √ 11'17 -0°0	06'45	evening set	902 Dec 13 j 11:28	11° る 27'38	
minimum elong	896 Dec 03 j 22:10	17° ∡ 11'17 0°0	06'45				
behind sun begin	896 Dec 03 j 16:03	17° ∡ 10′23		conjunction	902 Dec 29 j 02:03	12° る 22'32	
behind sun end	896 Dec 04 j 04:17	17° ∡ 12'11		minimum elong	902 Dec 29 j 02:03	12° る 22'31	0°24'33
max. Earth dist.	896 Dec 04 j 09:52	17° ∡ 13′02 20	31119 AU	max. Earth dist.	902 Dec 29 j 22:24	12° る 25'32	20.66863 AU
morning rise	896 Dec 19 j 13:00	18° ₹ 07'24		morning rise	903 Jan 13 j 17:40	13° る 17'35	
retrograde	897 Mar 21 j 13:41	21° ∡ 19′21		retrograde	903 Apr 16 j 15:08	16° පි 26'53	
opposition	897 Jun 06 j 07:37	19° √ 19'49 -0°0	09'12	min. Earth dist.	903 Jul 02 j 06:51	14° る 30'00	18.69544 AU
min. Earth dist.	897 Jun 05 j 19:31	19° ∡ ′21′03 18.3	34196 AU	opposition	903 Jul 03 j 03:25	14° る 27'57	-0°28'36
direct	897 Aug 22 j 11:10	17° ∡ 19'41		direct	903 Sep 17 j 18:54	12° る 29'55	
evening set	897 Nov 22 j 17:21	20° ∡ ³31′06		evening set	903 Dec 17 j 18:29	15° る 35'09	
conjunction	897 Dec 08 j 08:17	21° × ⁷ 27'01 -0°0	09'57	conjunction	904 Jan 02 j 09:01	16° පි 29'53	-0°27'07
minimum elong	897 Dec 08 j 08:17	21° ∡ 127′01 0°0	09'56	minimum elong	904 Jan 02 j 09:01	16° පි 29'53	0°27'06
behind sun begin	897 Dec 08 j 02:56	21° ∡ ¹26′14		max. Earth dist.	904 Jan 03 j 05:44	16° ප 32'56	20.72122 AU
behind sun end	897 Dec 08 j 13:38	21° ∡ ¹27'48		morning rise	904 Jan 18 j 01:05	17° る 24'50	
max. Earth dist.	897 Dec 08 j 20:54	21° × ⁷ 28'54 20.3	37293 AU	retrograde	904 Apr 20 j 01:30	20° る 33'48	
morning rise	897 Dec 23 j 23:13	22° ₹ ¹22'56		opposition	904 Jul 06 j 16:48	18° る 34'57	-0°31'21
retrograde	898 Mar 26 j 02:36	25° ∡ ³34′21		min. Earth dist.	904 Jul 05 j 20:21	18° る 36'59	18.74646 AU
min. Earth dist.	898 Jun 10 j 11:14	23° ∡ ³36′13 18.4	40373 AU	direct	904 Sep 21 j 05:14	16° ප 37'14	
opposition	898 Jun 11 j 00:34	23° ∡ ³34'52 -0°1	12'43	evening set	904 Dec 21 j 00:53	19° る 41'36	
direct	898 Aug 27 j 01:28	21° ∡ ³35′03					
evening set	898 Nov 27 j 02:56	24° ∡ ¹45′20		conjunction	905 Jan 05 j 15:42	20° පි 36'11	-0°29'31
				minimum elong	905 Jan 05 j 15:42	20° පි 36'11	0°29'31
conjunction	898 Dec 12 j 17:48	25° ∡ ¹41'01 -0°1	13'04	max. Earth dist.	905 Jan 06 j 13:43	20° る 39'25	20.77034 AU
minimum elong	898 Dec 12 j 17:48	25° ∡ '41'01 0°1	13'04	morning rise	905 Jan 21 j 08:03	21° る 31'01	
behind sun begin	898 Dec 12 j 13:46	25° ∡ ¹40′25		retrograde	905 Apr 24 j 13:35	24° ප 39'41	
behind sun end	898 Dec 12 j 21:50	25° ∡ ¹41'36		min. Earth dist.	905 Jul 10 j 07:29	22°る43'05	18.79354 AU
max. Earth dist.	898 Dec 13 j 08:52	25° х ⁴43′16 20.4	43447 AU	opposition	905 Jul 11 j 05:27	22° る 40'53	-0°33'56
morning rise	898 Dec 28 j 08:38	26° ∡ ³36'43		direct	905 Sep 25 j 16:32	20° ප් 43'27	
retrograde	899 Mar 30 j 15:22	29° ∡ ¹47'38		evening set	905 Dec 25 j 07:10	23° る 47'00	
opposition	899 Jun 15 j 16:44	27° ∡ ¹48'15 -0°1	16'08	Č	ž		
min. Earth dist.	899 Jun 15 j 01:14	27° х 49'49 18.4		conjunction	906 Jan 09 j 22:06	24° る 41'27	-0°31'47
direct	899 Aug 31 j 17:00	25° ∡ ′48'48	-	minimum elong	906 Jan 09 j 22:06	24°る41'27	
evening set	899 Dec 01 j 12:00	28° ₹ 57'57		max. Earth dist.	906 Jan 10 j 20:11		20.81519 AU
	077 DCC 01 1 17.00				-		
	899 DCC 01 J 12.00			morning rise	906 Jan 25 i 15:02	25°536'17	
conjunction	-	29° ∡ 753′25 -0°1	16'06	morning rise retrograde	906 Jan 25 j 15:02 906 Apr 28 j 22:27	25°る36'12 28°る44'34	
conjunction	899 Dec 17 j 02:32	29° 尽 53'25 -0°1 29° 尽 53'25 0°1		retrograde	906 Apr 28 j 22:27	28° ⋜ 44'34	-0°36'19
minimum elong	899 Dec 17 j 02:32 899 Dec 17 j 02:32	29° ⋠ 53′25 0°1		retrograde opposition	906 Apr 28 j 22:27 906 Jul 15 j 17:33	28° ප් 44'34 26° ප් 45'48	
·	899 Dec 17 j 02:32			retrograde	906 Apr 28 j 22:27	28° ප් 44'34 26° ප් 45'48	-0°36'19 18.83628 AU

evening set	906 Dec 29 j 12:57	27° る 51'21		conjunction minimum elong	913 Feb 06 j 11:54 913 Feb 06 j 11:54	22°≈51'19 22°≈51'19	
conjunction	907 Jan 14 j 04:19	28° ⋜ 45'42	-0°33'52	max. Earth dist.	913 Feb 07 j 12:58	22° ≈ 54'55	21.01172 AU
minimum elong	907 Jan 14 j 04:19	28° る 45'42	0°33'51	morning rise	913 Feb 22 j 09:26	23° ≈ 45'48	
max. Earth dist.	907 Jan 15 j 03:13	28° る 49'03	20.85560 AU	retrograde	913 May 27 j 12:12	26°≈52'51	
morning rise	907 Jan 29 j 21:41	29° ප් 40'21		opposition	913 Aug 13 j 15:02	24° ≈ 53'39	-0°47'14
	907 Feb 04 j 17:24	0° ≈		min. Earth dist.	913 Aug 12 j 14:49	24° ≈ 56′05	19.01955 AU
retrograde	907 May 03 j 09:52	2° ≈ 48′27		direct	913 Oct 28 j 10:02	22° ≈ 57'09	
min. Earth dist.	907 Jul 19 j 06:20	0° ≈ 51'56	18.87430 AU	evening set	914 Jan 25 j 21:57	25° ≈ 56′02	
opposition	907 Jul 20 j 05:00	0° ≈ 49'40	-0°38'32				
	907 Aug 10 j 14:31	30°Ŗ₹		conjunction	914 Feb 10 j 16:58	26° ≈ 50'04	
direct	907 Oct 04 j 12:26	28° る 52'37		minimum elong	914 Feb 10 j 16:58	26°≈50'04	
	907 Nov 25 j 17:04	0°≈		max. Earth dist.	914 Feb 11 j 17:45		21.02557 AU
evening set	908 Jan 02 j 18:23	1° ≈ 54'39		morning rise	914 Feb 26 j 15:25	27°≈44'35	
. ,.	000 1 10:00 50	2040154	0025146	. 1	914 Apr 15 j 02:00	0° \ 0° \ 51127	
conjunction	908 Jan 18 j 09:59	2°≈48'54		retrograde	914 May 31 j 19:37	0°) 51'37 30° R ≈	
minimum elong max. Earth dist.	908 Jan 18 j 09:59 908 Jan 19 j 08:52	2°≈48'54	0°35'46	annagition	914 Jul 19 j 00:44 914 Aug 17 j 23:12	30°k≈ 28°≈52'23	0047154
morning rise	908 Jan 19 J 08:32 908 Feb 03 j 04:01	2 ≈32 14 3°≈43'29	20.89125 AU	opposition min. Earth dist.	914 Aug 17 j 23:12 914 Aug 17 j 00:08		19.03168 AU
retrograde	908 May 06 j 17:33	6°≈51'20		direct	914 Aug 17 j 00:08 914 Nov 01 j 14:39	26°≈55'57	19.03108 AU
opposition	908 Jul 23 j 16:06	4°≈52'29	-0°40'31	evening set	915 Jan 30 j 02:23	29°≈54'35	
min. Earth dist.	908 Jul 22 j 18:08		18.90780 AU	evening sec	915 Jan 31 j 17:00	0° ₩	
direct	908 Oct 07 j 20:14	2°≈55'34			,	* /\	
evening set	909 Jan 05 j 23:24	5°≈56'54		conjunction	915 Feb 14 j 22:14	0°) 48'39	-0°43'35
Č	,			minimum elong	915 Feb 14 j 22:14	0°) 48'39	0°43'35
conjunction	909 Jan 21 j 15:34	6° ≈ 51'04	-0°37'29	max. Earth dist.	915 Feb 15 j 23:14	0° ¥ 52'14	21.03592 AU
minimum elong	909 Jan 21 j 15:33	6° ≈ 51'04	0°37'28	morning rise	915 Mar 02 j 21:28	1°) 43′12	
max. Earth dist.	909 Jan 22 j 15:18	6° ≈ 54'30	20.92266 AU	retrograde	915 Jun 05 j 04:43	4° ¥ 50′15	
morning rise	909 Feb 06 j 10:09	7° ≈ 45'35		min. Earth dist.	915 Aug 21 j 07:14	2°) 53′24	19.04006 AU
retrograde	909 May 11 j 03:36	10° ≈ 53'12		opposition	915 Aug 22 j 07:06	2° ¥ 51′00	-0°48'21
min. Earth dist.	909 Jul 27 j 03:06	8° ≈ 56'36	18.93716 AU	direct	915 Nov 05 j 21:08	0° ¥ 54'39	
opposition	909 Jul 28 j 02:23	8° ≈ 54'17	-0°42'18	evening set	916 Feb 03 j 06:55	3° ¥ 53′05	
direct	909 Oct 12 j 06:15	6° ≈ 57'27					
evening set	910 Jan 10 j 04:14	9° ≈ 58'08		conjunction	916 Feb 19 j 03:27	4°) 47'12	
	010 7 05:00 15	100 50115	0020100	minimum elong	916 Feb 19 j 03:27	4°) 47'12	
conjunction	910 Jan 25 j 20:47	10°≈52'15		max. Earth dist.	916 Feb 20 j 04:00		21.04225 AU
minimum elong	910 Jan 25 j 20:47	10°≈52'15	0°39'01	morning rise	916 Mar 06 j 03:39	5° 光 41'50 8° 光 48'57	
max. Earth dist. morning rise	910 Jan 26 j 20:33 910 Feb 10 j 16:09	10°≈35°42 11°≈46'45	20.95002 AU	retrograde opposition	916 Jun 08 j 12:19 916 Aug 25 j 15:01	8°π48'37 6° π 49'41	0040122
retrograde	910 May 15 j 10:56	11 ≈40 43 14°≈54'09		min. Earth dist.	916 Aug 24 j 16:36		19.04432 AU
opposition	910 Aug 01 j 12:19	12°≈55'08	-0°43'52	direct	916 Nov 09 j 01:24	4°) 53′22	17.04432 AO
min. Earth dist.	910 Jul 31 j 13:47		18.96279 AU	evening set	917 Feb 06 j 11:45	7° ¥ 51'43	
direct	910 Oct 16 j 12:38	10°≈58'24	10.50275110	evening sec	71, 1 0 0 00 j 11.10	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
evening set	911 Jan 14 j 08:47	13°≈58'31		conjunction	917 Feb 22 j 09:12	8°) 45′54	-0°43'58
Č	,			minimum elong	917 Feb 22 j 09:12	8°) 45′54	0°43'59
conjunction	911 Jan 30 j 01:57	14° ≈ 52'35	-0°40'19	max. Earth dist.	917 Feb 23 j 09:35	8°) 49′23	21.04439 AU
minimum elong	911 Jan 30 j 01:57	14° ≈ 52'35	0°40'19	morning rise	917 Mar 10 j 10:17	9° ∺ 40'36	
max. Earth dist.	911 Jan 31 j 02:27	14° ≈ 56′07	20.97389 AU	retrograde	917 Jun 12 j 22:04	12°) 47′50	
	911 Feb 01 j 05:15	15° ≈		opposition	917 Aug 29 j 22:30	10°) 48′31	
morning rise	911 Feb 14 j 21:55	15° ≈ 47'03		min. Earth dist.	917 Aug 28 j 23:47		19.04409 AU
retrograde	911 May 19 j 19:57	18° ≈ 54'17		direct	917 Nov 13 j 07:38	8° ¥ 52'14	
opposition	911 Aug 05 j 21:29	16°≈55'12		evening set	918 Feb 10 j 17:01	11° ¥ 50′33	
min. Earth dist.	911 Aug 04 j 21:37		18.98496 AU		010 E 1 06:15.15	1201/44/50	00.42151
J: 4	911 Oct 13 j 05:55	15°R≈		conjunction	918 Feb 26 j 15:15	12°) 44'50	
direct	911 Oct 20 j 21:18 911 Oct 28 j 09:30	14°≈58'32 15°≈		minimum elong max. Earth dist.	918 Feb 26 j 15:15 918 Feb 27 j 14:38	12° ¥ 44'50	21.04162 AU
evening set	912 Jan 18 j 13:17	13 ≈ 17°≈58'11		morning rise	918 Mar 14 j 17:19	12 X 48 10	21.04102 AU
ovening set	/12 Juli 10 J 13.1/	17 ~ 30 11		retrograde	918 Jun 17 j 05:41	16° X 47'00	
conjunction	912 Feb 03 j 06:56	18° ≈ 52'13	-0°41'26	min. Earth dist.	918 Sep 02 j 09:16		19.03876 AU
minimum elong	912 Feb 03 j 06:56	18°≈52'13		opposition	918 Sep 02 j 05:10	14°) (47'39	
max. Earth dist.	912 Feb 04 j 07:25		20.99436 AU	direct	918 Nov 17 j 11:54	12° H 51'21	
morning rise	912 Feb 19 j 03:43	19° ≈ 46'41		evening set	919 Feb 14 j 22:27	15°) (49'42	
retrograde	912 May 23 j 03:20	22° ≈ 53'48		Č	y		
min. Earth dist.	912 Aug 08 j 07:28		19.00391 AU	conjunction	919 Mar 02 j 21:39	16°) 44′04	-0°43'31
opposition	912 Aug 09 j 06:33	20° ≈ 54'39	-0°46'20	minimum elong	919 Mar 02 j 21:39	16°) 44′04	
direct	912 Oct 24 j 02:45	18° ≈ 58′04		max. Earth dist.	919 Mar 03 j 20:19	16° ¥ 47'19	21.03366 AU
evening set	913 Jan 21 j 17:30	21° ≈ 57'17		morning rise	919 Mar 19 j 00:36	17° ¥ 38′59	

retrograde	919 Jun 21 j 15:50	20° ¥ 46'31		evening set	926 Mar 14 j 23:10	13° Y 55'41	
opposition	3	18°) 47'05	0047140	evening set	920 Mai 14 j 25.10	13 3341	
	919 Sep 07 j 13:26				026 M 21:05 22	14° Ƴ 51'14	0025122
min. Earth dist.	919 Sep 06 j 16:38		19.02800 AU	conjunction	926 Mar 31 j 05:22		
direct	919 Nov 21 j 18:12	16° ¥ 50'45		minimum elong	926 Mar 31 j 05:22	14° Y 51'14	
evening set	920 Feb 19 j 04:20	19° ∺ 49'10		max. Earth dist.	926 Mar 31 j 20:02		20.84408 AU
				morning rise	926 Apr 16 j 15:17	15° Y 47'19	
conjunction	920 Mar 06 j 04:24	20°) 43′40		retrograde	926 Jul 20 j 08:57	18° Ƴ 56'41	
minimum elong	920 Mar 06 j 04:24	20°) 43′40		opposition	926 Oct 05 j 16:00	16° Ƴ 56′12	
max. Earth dist.	920 Mar 07 j 01:46	20°) 46′43	21.02013 AU	min. Earth dist.	926 Oct 05 j 03:45		18.82418 AU
morning rise	920 Mar 22 j 08:23	21°) 38′42		direct	926 Dec 19 j 08:16	14° Ƴ 58'35	
retrograde	920 Jun 24 j 23:22	24°) 46′26		evening set	927 Mar 19 j 08:02	17° Ƴ 59'25	
opposition	920 Sep 10 j 20:52	22°) 46'53	-0°47'05				
min. Earth dist.	920 Sep 10 j 02:08	22°) 48'46	19.01175 AU	conjunction	927 Apr 04 j 15:17	18° Ƴ 55'12	-0°33'27
direct	920 Nov 24 j 22:49	20° ¥ 50′26		minimum elong	927 Apr 04 j 15:17	18° Ƴ 55'12	
evening set	921 Feb 22 j 10:22	23° ¥ 48'59		max. Earth dist.	927 Apr 05 j 04:40	18° Ƴ 57'07	20.80342 AU
8	, ,			morning rise	927 Apr 21 j 02:09	19° Ƴ 51'30	
conjunction	921 Mar 10 j 11:31	24°) 43′37	-0°42'13	retrograde	927 Jul 24 j 21:45	23° Υ 01'16	
minimum elong	921 Mar 10 j 11:31	24°\(\frac{1}{43}\)37		opposition	927 Oct 09 j 23:35	23 γ 01 10 21° γ '00'40	0°25'50
	-			min. Earth dist.			18.78223 AU
max. Earth dist.	921 Mar 11 j 07:55		21.00135 AU		927 Oct 09 j 11:39		18./8223 AU
morning rise	921 Mar 26 j 16:29	25°) € 38'48		direct	927 Dec 23 j 15:45	19° Y 02'51	
retrograde	921 Jun 29 j 09:40	28°) 46′43		evening set	928 Mar 22 j 17:45	22° Ƴ 04'19	
min. Earth dist.	921 Sep 14 j 09:30		18.99031 AU				
opposition	921 Sep 15 j 04:03	26°) 47′01	-0°46'08	conjunction	928 Apr 08 j 02:00	23° Y 00'20	
direct	921 Nov 29 j 05:06	24°) 50′26		minimum elong	928 Apr 08 j 02:01	23° Y 00'20	0°31'21
evening set	922 Feb 26 j 16:56	27°) 49'11		max. Earth dist.	928 Apr 08 j 14:11	23° Y 02'05	20.76023 AU
				morning rise	928 Apr 24 j 13:47	23° Y 56'52	
conjunction	922 Mar 14 j 19:00	28°) 43′59	-0°41'15	retrograde	928 Jul 28 j 07:56	27° Y 07'04	
minimum elong	922 Mar 14 j 19:00	28° ¥ 43'59	0°41'15	opposition	928 Oct 13 j 07:29	25° Y 06′23	-0°33'25
max. Earth dist.	922 Mar 15 j 14:05	28° ¥ 46'42	20.97745 AU	min. Earth dist.	928 Oct 12 j 21:38	25° Ƴ 07'24	18.73780 AU
morning rise	922 Mar 31 j 01:00	29°) 39′19		direct	928 Dec 26 j 20:57	23° Y ′08′20	
morning rise	922 Apr 06 j 07:06	0°Υ		evening set	929 Mar 27 j 04:12	26°Υ10'31	
retrograde	922 Jul 03 j 17:21	2° Υ '47'27		evening sec	929 Mar 27 J 0 1.12	20 11031	
opposition	922 Sep 19 j 11:09	0° Υ 47'35	0044157	conjunction	929 Apr 12 j 13:32	27° Ƴ 06'47	0°20'04
			18.96413 AU			27° Υ 06'47	0°29'05
min. Earth dist.	922 Sep 18 j 18:41		18.90413 AU	minimum elong	929 Apr 12 j 13:32		
	922 Oct 09 j 13:02	30° ₹ ₩		max. Earth dist.	929 Apr 13 j 00:01	27° Υ 08'18	20.71471 AU
direct	922 Dec 03 j 09:53	28°) 50′49		morning rise	929 Apr 29 j 02:16	28° Y 03'34	
	923 Jan 25 j 04:33	0° Υ			929 Jun 06 j 19:16	0. R	
evening set	923 Mar 02 j 23:44	1° Y 49'50		retrograde	929 Aug 01 j 21:34	1° 8 14'14	
					929 Sep 28 j 10:34	30° ₹Ƴ	
conjunction	923 Mar 19 j 02:52	2° Ƴ 44'47		opposition	929 Oct 17 j 15:40	29° Ƴ 13′27	
minimum elong	923 Mar 19 j 02:52	2° Y 44'47	0°40'04	min. Earth dist.	929 Oct 17 j 06:33	29° Ƴ 14'24	18.69091 AU
max. Earth dist.	923 Mar 19 j 20:59	2° Y '47'23	20.94932 AU	direct	929 Dec 31 j 05:26	27° Ƴ 15′12	
morning rise	923 Apr 04 j 09:50	3° Ƴ 40'17			930 Mar 26 j 05:19	$_{0\circ}$ 8	
retrograde	923 Jul 08 j 03:55	6° Ƴ 48'41		evening set	930 Mar 31 j 15:35	0° 8 18'10	
opposition	923 Sep 23 j 18:13	4° Υ 48'39	-0°43'33	-	-		
min. Earth dist.	923 Sep 23 j 01:52	4° Y ′50′19	18.93400 AU	conjunction	930 Apr 17 j 01:53	1° 8 14'42	-0°26'38
direct	923 Dec 07 j 16:09	2° Y 51'40		minimum elong	930 Apr 17 j 01:53	1° 8 14'42	
evening set	924 Mar 06 j 06:56	5° Υ 51'02		max. Earth dist.	930 Apr 17 j 10:57		20.66640 AU
5 · 5 · · · · · · · · · · · · · · · · ·	,			morning rise	930 May 03 j 15:23	2° 8 11'43	
conjunction	924 Mar 22 j 11:02	6° Ƴ 46'10	0.38143	retrograde	930 Aug 06 j 09:04	5° 8 22'52	
minimum elong	924 Mar 22 j 11:02	6° Υ 46'10		opposition	930 Oct 22 j 00:13	3° 8 22'01	0°28'02
max. Earth dist.	-		20.91733 AU	min. Earth dist.	3		18.64118 AU
	924 Mar 23 j 04:01		20.91733 AU		930 Oct 21 j 17:26		18.04118 AU
morning rise	924 Apr 07 j 19:01	7° Y 41'52		direct	931 Jan 04 j 12:05	1° 8 23'31	
retrograde	924 Jul 11 j 12:17	10° ℃ 50'33		evening set	931 Apr 05 j 03:48	4° 8 27'20	
min. Earth dist.	924 Sep 26 j 11:02		18.90033 AU				
opposition	924 Sep 27 j 01:28	8° Y ′50′21	-0°41'55	conjunction	931 Apr 21 j 15:03	5° 8 24'08	
direct	924 Dec 10 j 20:54	6° Ƴ 53'10		minimum elong	931 Apr 21 j 15:03	5° 8 24'09	0°24'03
evening set	925 Mar 10 j 14:43	9° Ƴ 52'56		max. Earth dist.	931 Apr 21 j 21:54		20.61535 AU
				morning rise	931 May 08 j 05:25	6° 8 21'25	
conjunction	925 Mar 26 j 19:55	10° Ƴ 48'16	-0°37'08	retrograde	931 Aug 10 j 23:13	9° 8 33'04	
minimum elong	925 Mar 26 j 19:55	10° Ƴ 48'16	0°37'08	opposition	931 Oct 26 j 09:11	7° 8 32'07	-0°25'05
max. Earth dist.	925 Mar 27 j 11:49	10° Y ′50′33	20.88221 AU	min. Earth dist.	931 Oct 26 j 03:31		18.58856 AU
morning rise	925 Apr 12 j 04:54	11° Y '44'09		direct	932 Jan 08 j 21:24	5° 8 33'22	
retrograde	925 Jul 15 j 23:53	14° Υ '53'10		evening set	932 Apr 08 j 16:51	8° 8 38'04	
opposition	925 Oct 01 j 08:32	14 γ 53 10 12° γ 52'49	-0°40'06	croning set	752 ript 00 j 10.51	0 0 30 04	
min. Earth dist.			18.86368 AU	conjunction	032 Apr 25:05:06	9° 8 35'10	0021110
direct	925 Sep 30 j 18:21 925 Dec 15 j 03:35	12° Y 54°16 10° Y 55'24	10.00300 AU	conjunction minimum elong	932 Apr 25 j 05:06 932 Apr 25 j 05:06	9° 8 35'10	
direct	723 DCC 13 J 03.33	10 13324		mmmum ciong	752 Apr 25 J 05.00) U33 10	0 211/

max. Earth dist.	932 Apr 25 j 10:20	9° \ 35'55	20.56105 AU	opposition	937 Nov 20 j 00:59	3° Ⅱ 04'56	-0°04'41
morning rise	932 May 11 j 20:11	10° 8 32'42	20.00100110	min. Earth dist.	937 Nov 20 j 06:02		18.21726 AU
retrograde	932 Aug 14 j 12:01	13° 8 44'51		direct	938 Feb 02 j 15:48	1° Ⅱ 03'52	
opposition	932 Oct 29 j 18:46	11° 8 43'47	-0°21'59	evening set	938 May 05 j 17:35	4° Ⅱ 14'45	
min. Earth dist.	932 Oct 29 j 15:31		18.53259 AU	C	, ,		
direct	933 Jan 12 j 06:10	9° 8 44'43		conjunction	938 May 22 j 10:39	5° Ⅱ 13'36	-0°02'39
evening set	933 Apr 13 j 06:57	12° 8 50'21		minimum elong	938 May 22 j 10:39	5° Ⅱ 13'36	0°02'38
C	1 3			behind sun begin	938 May 22 j 03:53	5° Ⅱ 12'38	
conjunction	933 Apr 29 j 20:05	13° 8 47'44	-0°18'26	behind sun end	938 May 22 j 17:25	5° Ⅱ 14'35	
minimum elong	933 Apr 29 j 20:05	13° 8 47'44	0°18'25	max. Earth dist.	938 May 22 j 03:54	5° Ⅱ 12'38	20.18459 AU
max. Earth dist.	933 Apr 29 j 22:34	13° 8 48'05	20.50360 AU	morning rise	938 Jun 08 j 04:58	6° Ⅱ 12'41	
morning rise	933 May 16 j 11:58	14° 8 45'32		retrograde	938 Sep 10 j 06:06	9° Ⅱ 27'54	
	933 May 20 j 18:39	15° ∀		opposition	938 Nov 24 j 13:22	7° Ⅱ 25'54	-0°01'00
retrograde	933 Aug 19 j 02:29	17° 8 58'11		min. Earth dist.	938 Nov 24 j 19:58	7° Ⅱ 25'12	18.15170 AU
opposition	933 Nov 03 j 04:35	15° 8 56'59	-0°18'44	direct	939 Feb 07 j 05:00	5° Ⅱ 24'25	
min. Earth dist.	933 Nov 03 j 02:42	15° 8 57'11	18.47356 AU	asc. node	939 Mar 04 j 05:46	5° Ⅱ 41'01	
	933 Nov 26 j 18:13	15° ₹ 8		evening set	939 May 10 j 12:43	8° Ⅱ 36′29	
direct	934 Jan 16 j 16:32	13° 8 57'33					
	934 Mar 07 j 09:21	15° 8		conjunction	939 May 27 j 06:14	9° Ⅱ 35'37	0°00'47
evening set	934 Apr 17 j 21:51	17° 8 04'10		minimum elong	939 May 27 j 06:13	9° Ⅱ 35'37	0°00'47
				behind sun begin	939 May 26 j 23:27	9° Ⅱ 34'38	
conjunction	934 May 04 j 11:56	18° 8 01'50	-0°15'26	behind sun end	939 May 27 j 12:59	9° Ⅱ 36'36	
minimum elong	934 May 04 j 11:56	18° 8 01'50	0°15'27	max. Earth dist.	939 May 26 j 20:42		20.11943 AU
behind sun begin	934 May 04 j 10:29	18° 8 01'38		morning rise	939 Jun 13 j 00:58	10° Ⅱ 34'57	
behind sun end	934 May 04 j 13:22	18° 8 02'02		retrograde	939 Sep 14 j 23:05	13° Ⅱ 50'43	
max. Earth dist.	934 May 04 j 12:49	_	20.44307 AU	opposition	939 Nov 29 j 02:19	11° Ⅱ 48'35	
morning rise	934 May 21 j 04:21	18° 8 59'53		min. Earth dist.	939 Nov 29 j 10:18		18.08709 AU
retrograde	934 Aug 23 j 16:24	22° 8 13'02		direct	940 Feb 11 j 19:27	9° Ⅱ 46'42	
opposition	934 Nov 07 j 15:03	20° 8 11'41		evening set	940 May 14 j 08:35	12° Ⅱ 59'58	
min. Earth dist.	934 Nov 07 j 15:24	_	18.41170 AU			_	
direct	935 Jan 21 j 03:11	18° 8 11'53		conjunction	940 May 31 j 02:47	13° ∏ 59'24	0°04'11
evening set	935 Apr 22 j 13:26	21° 8 19'29		minimum elong	940 May 31 j 02:46	13° Ⅱ 59'24	0°04'12
				behind sun begin	940 May 30 j 20:05	13° Ⅱ 58'26	
conjunction	935 May 09 j 04:16	22° 8 17'26		behind sun end	940 May 31 j 09:26	14° Ⅱ 00′22	
minimum elong	935 May 09 j 04:15	22° 8 17'26	0°12'21	max. Earth dist.	940 May 30 j 16:43		20.05530 AU
behind sun begin	935 May 08 j 23:54	22° 8 16'49		morning rise	940 Jun 16 j 21:34	14° Ⅱ 58'58	
behind sun end	935 May 09 j 08:36	22° 8 18'04	20 20025 111	retrograde	940 Sep 18 j 16:37	18° Ⅱ 15'16	000 (10 (
max. Earth dist.	935 May 09 j 02:23		20.38025 AU	opposition	940 Dec 02 j 15:59	16° Ⅱ 13'04	0°06'26
morning rise	935 May 25 j 21:24	23° 8 15'45		min. Earth dist.	940 Dec 03 j 01:12		18.02362 AU
retrograde	935 Aug 28 j 07:14	26° 8 29'26 24° 8 27'53	0911152	direct	941 Feb 15 j 10:14 941 May 19 j 05:36	14° Ⅱ 10'49 17° Ⅱ 25'20	
opposition min. Earth dist.	935 Nov 12 j 01:54		-0 11 33 18.34795 AU	evening set	941 May 19 J 05.36 941 Jun 04 j 11:10		10 00266 ATT
direct	935 Nov 12 j 03:36 936 Jan 25 j 14:48	22° 8 27'42	18.34/93 AU	max. Earth dist.	941 Jun 04 J 11:10	18°Щ23'07	19.99266 AU
evening set	936 Apr 26 j 05:57	25° 8 36'19		conjunction	941 Jun 05 j 00:01	18° Ⅲ 25'01	0°07'31
evening set	930 Apr 20 J 03.37	25 030 19		minimum elong	941 Jun 05 j 00:01	18° Ⅱ 25'01	0°07'30
conjunction	936 May 12 j 21:39	26° 8 34'35	-0°09'11	behind sun begin	941 Jun 04 j 17:52	18° Ⅱ 23'01	0 07 30
minimum elong	936 May 12 j 21:40	26° 8 34'35		behind sun end	941 Jun 05 j 06:10	18° II 25'55	
behind sun begin	936 May 12 j 15:59	26° 8 33'46	3 07 11	morning rise	941 Jun 21 j 19:05	18 H 25 55	
behind sun end	936 May 13 j 03:20	26° 8 35'24		retrograde	941 Sep 23 j 10:48	22° Ⅱ 41'42	
max. Earth dist.	936 May 12 j 18:35		20.31570 AU	opposition	941 Dec 07 j 06:16	20° II 39'26	0°10'09
morning rise	936 May 29 j 15:12	27° 8 33'09		min. Earth dist.	941 Dec 07 j 17:01		17.96191 AU
	936 Jul 19 j 09:52	0°П		direct	942 Feb 20 j 01:56	18° Ⅱ 36'50	
retrograde	936 Aug 31 j 22:16	0° Ⅱ 47'19		evening set	942 May 24 j 03:20	21° Ⅲ 52'37	
	936 Oct 15 j 01:32	30° ₹ 8		<i>8</i>	, ,		
opposition	936 Nov 15 j 13:09	28° 8 45'37	-0°08'19	conjunction	942 Jun 09 j 22:14	22° II 52'35	0°10'49
min. Earth dist.	936 Nov 15 j 16:50		18.28283 AU	minimum elong	942 Jun 09 j 22:15	22° I 52'35	
direct	937 Jan 29 j 02:44	26° 8 44'59		behind sun begin	942 Jun 09 j 17:09	22° Ⅲ 51'51	
evening set	937 Apr 30 j 23:26	29° 8 54'44		behind sun end	942 Jun 10 j 03:20	22° Ⅲ 53′20	
Č	937 May 02 j 12:02	0°Щ		max. Earth dist.	942 Jun 09 j 09:00		19.93179 AU
				morning rise	942 Jun 26 j 17:09	23° II 52'37	
conjunction	937 May 17 j 15:45	0°Ⅲ53'17	-0°05'57	retrograde	942 Sep 28 j 06:28	27° Ⅱ 10′02	
minimum elong	937 May 17 j 15:45	0°耳53'17	0°05'56	opposition	942 Dec 11 j 21:20	25° Ⅱ 07'46	0°13'49
behind sun begin	937 May 17 j 09:19	0° Ⅲ 52'22		min. Earth dist.	942 Dec 12 j 09:04	25° Ⅱ 06'30	17.90194 AU
behind sun end	937 May 17 j 22:12	0°Ⅲ54'13		direct	943 Feb 24 j 18:22	23° Ⅲ 04'51	
max. Earth dist.	937 May 17 j 09:50	0°Ⅲ52'26	20.25031 AU	evening set	943 May 29 j 01:59	26° Ⅱ 21'54	
morning rise	937 Jun 03 j 09:54	1° Ⅱ 52'07					
retrograde	937 Sep 05 j 14:05	5° Ⅱ 06'49		conjunction	943 Jun 14 j 20:58	27° Ⅱ 22'08	0°14'06

		_					
minimum elong	943 Jun 14 j 20:58	27° Ⅱ 22'08	0°14'06	morning rise	949 Jul 29 j 21:49	25° © 58'09	
behind sun begin	943 Jun 14 j 17:50	27° Ⅱ 21'40		retrograde	949 Oct 30 j 11:06	29° © 18'41	
behind sun end	943 Jun 15 j 00:05	27° Ⅱ 22'35		opposition	950 Jan 12 j 03:20	27°©16'12	0°36'36
max. Earth dist.	943 Jun 14 j 05:01	27° Ⅱ 19'44	19.87276 AU	min. Earth dist.	950 Jan 13 j 00:38	27°©13'52	17.53169 AU
morning rise	943 Jul 01 j 15:57	28° Ⅲ 22'23		direct	950 Mar 28 j 12:46	25° © 11'00	
	943 Jul 31 j 14:06	0ං ම		evening set	950 Jul 01 j 14:32	28° © 36'05	
retrograde	943 Oct 03 j 01:57	1°9540'21		max. Earth dist.	950 Jul 17 j 07:17	29° © 33'45	19.50983 AU
	943 Dec 08 j 01:16	30° Ŗ Ⅱ					
opposition	943 Dec 16 j 13:11	29° Ⅱ 38′05	0°17'27	conjunction	950 Jul 18 j 08:30	29° 5 37'39	0°34'02
min. Earth dist.	943 Dec 17 j 02:46	29° Ⅱ 36'37	17.84384 AU	minimum elong	950 Jul 18 j 08:30	29° © 37'39	0°34'02
direct	944 Feb 29 j 11:00	27° Ⅲ 34'51			950 Jul 24 j 09:16	$0^{\circ}\Omega$	
	944 May 17 j 12:27	0 \circ \odot		morning rise	950 Aug 04 j 00:10	0° Ω 38'54	
evening set	944 Jun 02 j 01:36	0° © 53'11		retrograde	950 Nov 04 j 10:41	3° Ω 59'43	
				opposition	951 Jan 16 j 23:54	1° Ω 57'10	0°39'07
conjunction	944 Jun 18 j 20:53	1°\$53'40	0°17'19	min. Earth dist.	951 Jan 17 j 20:51	1° Ω 54'53	17.48954 AU
minimum elong	944 Jun 18 j 20:53	1°953'40	0°17'19		951 Mar 15 j 19:40	30° ₹ 5	
max. Earth dist.	944 Jun 18 j 04:23	1° 9 51'11	19.81537 AU	direct	951 Apr 02 j 13:31	29° © 51'40	
morning rise	944 Jul 05 j 15:33	2° 9 54'07			951 Apr 20 j 04:44	$0^{\circ}\Omega$	
retrograde	944 Oct 06 j 23:55	6° © 12'37		evening set	951 Jul 06 j 18:14	3° Ω 17'38	
opposition	944 Dec 20 j 05:38	4°9510'21	0°20'59	max. Earth dist.	951 Jul 22 j 10:00		19.46974 AU
min. Earth dist.	944 Dec 20 j 20:11		17.78719 AU		,		
direct	945 Mar 05 j 05:36	2°506'49		conjunction	951 Jul 23 j 11:42	4° Ω 19'18	0°36'10
evening set	945 Jun 07 j 02:16	5°926'24		minimum elong	951 Jul 23 j 11:42	4° Ω 19'18	0°36'10
evening sec	> 10 tuni 0 / j 02.10	0 -202.		morning rise	951 Aug 09 j 02:31	5° Ω 20'37	0 20 10
conjunction	945 Jun 23 j 21:26	6°527'07	0°20'27	retrograde	951 Nov 09 j 07:45	8° Ω 41'39	
minimum elong	945 Jun 23 j 21:26	6°927'07	0°20'27	opposition	952 Jan 21 j 21:13	6° Ω 39'04	0°41'23
max. Earth dist.	945 Jun 23 j 02:07	6°924'11	19.75940 AU	min. Earth dist.	952 Jan 22 j 19:39		17.45184 AU
morning rise	945 Jul 10 j 15:55	7°927'46	17.75740 AO	direct	952 Apr 06 j 12:46	4° Ω 33'17	17.43104 AC
retrograde	945 Oct 11 j 19:59	10°946'44		evening set	952 Jul 10 j 22:21	8° Ω 00'05	
opposition	945 Dec 24 j 23:03	8°9544'28	0°24'26	evening set	932 Jul 10 j 22.21	8 8600 03	
min. Earth dist.	945 Dec 25 j 15:41		17.73208 AU	conjunction	952 Jul 27 j 15:08	9° Ω 01'49	0°38'04
direct	·	6°9340'36	17.73208 AU	minimum elong	5	9° Ω 01'49	0°38'04
	946 Mar 09 j 23:30			max. Earth dist.	952 Jul 27 j 15:08		19.43452 AU
evening set	946 Jun 12 j 03:22	10°901'24			952 Jul 26 j 12:48		19.43432 AU
	046 1 20:22.26	110503110	0022120	morning rise	952 Aug 13 j 05:10	10° Ω 03'10	
conjunction	946 Jun 28 j 22:36	11°502'19	0°23'29	retrograde	952 Nov 13 j 07:41	13° Ω 24'24	0043133
minimum elong	946 Jun 28 j 22:36	11°902'19	0°23'28	opposition	953 Jan 25 j 18:52	11° Ω 21'47	
max. Earth dist.	946 Jun 28 j 02:39		19.70496 AU	min. Earth dist.	953 Jan 26 j 16:34		17.41926 AU
morning rise	946 Jul 15 j 16:35	12°503'08		direct	953 Apr 11 j 14:41	9° Ω 15'45	
retrograde	946 Oct 16 j 19:10	15°522'34		evening set	953 Jul 16 j 02:36	12° Ω 43'18	
opposition	946 Dec 29 j 17:07	13°520'16					
min. Earth dist.	946 Dec 30 j 10:19		17.67845 AU	conjunction	953 Aug 01 j 18:44	13° Ω 45'05	
direct	947 Mar 14 j 20:17	11° © 16'05		minimum elong	953 Aug 01 j 18:44	13° Ω 45'05	
evening set	947 Jun 17 j 05:25	14° © 38'01		max. Earth dist.	953 Jul 31 j 16:54		19.40461 AU
max. Earth dist.	947 Jul 03 j 02:04	15° © 35'45	19.65220 AU	morning rise	953 Aug 18 j 07:41	14° Ω 46'27	
					953 Aug 22 j 01:28	15° Ω	
conjunction	947 Jul 04 j 00:22	15° © 39'09	0°26'23	retrograde	953 Nov 18 j 05:49	18° Ω 07'51	
minimum elong	947 Jul 04 j 00:22	15° © 39'09	0°26'23	opposition	954 Jan 30 j 17:22	16° Ω 05'15	
morning rise	947 Jul 20 j 17:57	16° © 40'07		min. Earth dist.	954 Jan 31 j 15:57		17.39233 AU
retrograde	947 Oct 21 j 15:22	19° © 59'57			954 Feb 25 j 20:18	15°R Ω	
opposition	948 Jan 03 j 11:52	17° © 57'36	0°30'53	direct	954 Apr 16 j 14:58	13° Ω 59'03	
min. Earth dist.	948 Jan 04 j 07:09	17° © 55'30	17.62687 AU		954 Jun 04 j 07:13	15° Ω	
direct	948 Mar 18 j 16:09	15° © 53'04		evening set	954 Jul 21 j 06:51	17° Ω 27'15	
evening set	948 Jun 21 j 07:56	19° © 16'07					
max. Earth dist.	948 Jul 07 j 03:43	20° © 13'53	19.60177 AU	conjunction	954 Aug 06 j 22:05	18° Ω 29'03	0°41'05
				minimum elong	954 Aug 06 j 22:05	18° Ω 29'03	0°41'05
conjunction	948 Jul 08 j 02:46	20° © 17'25	0°29'07	max. Earth dist.	954 Aug 05 j 19:43	18° Ω 24'56	19.38071 AU
minimum elong	948 Jul 08 j 02:46	20° © 17'25	0°29'07	morning rise	954 Aug 23 j 10:12	19° Ω 30'24	
morning rise	948 Jul 24 j 19:47	21° © 18'30		retrograde	954 Nov 23 j 06:15	22° Ω 51'57	
retrograde	948 Oct 25 j 14:40	24° © 38'42		opposition	955 Feb 04 j 16:11	20° Ω 49'24	0°46'27
opposition	949 Jan 07 j 07:13	22° 5 36'18	0°33'51	min. Earth dist.	955 Feb 05 j 13:43	20° Ω 47'02	17.37150 AU
min. Earth dist.	949 Jan 08 j 02:41	22°534'10	17.57769 AU	direct	955 Apr 21 j 17:27	18° Ω 43'05	
direct	949 Mar 23 j 14:59	20°531'26		evening set	955 Jul 26 j 11:14	22° Ω 11'53	
evening set	949 Jun 26 j 11:05	23° © 55'31		max. Earth dist.	955 Aug 11 j 00:36	23° Ω 09'45	19.36290 AU
max. Earth dist.	949 Jul 12 j 04:53	24° © 53'12	19.55398 AU				
				conjunction	955 Aug 12 j 01:45	23° Ω 13'41	0°42'12
conjunction	949 Jul 13 j 05:29	24° © 56'59	0°31'41	minimum elong	955 Aug 12 j 01:45	23° Ω 13'41	0°42'12
minimum elong	949 Jul 13 j 05:29	24° © 56'58	0°31'41	morning rise	955 Aug 28 j 12:40	24° Ω 15′00	

max. Earth dist.	069 Oat 12:02:54	240 0 20120	10 59700 AII	minimum alana	974 Nov 09 j 01:54	21° M 57'21	0912144
	968 Oct 12 j 03:54		19.58790 AU	minimum elong	,		0 12 44
morning rise	968 Oct 28 j 11:04	25° £ 40'23		behind sun begin	974 Nov 08 j 21:41	21°M.56'43	
retrograde	969 Jan 27 j 11:36	28° ≙ 58'50		behind sun end	974 Nov 09 j 06:06	21°M 57'59	
opposition	969 Apr 12 j 02:20	26° £ 57'46	0°32'30	max. Earth dist.	974 Nov 09 j 03:18		19.93451 AU
min. Earth dist.	969 Apr 12 j 11:28	26° ≏ 56'48	17.61266 AU	morning rise	974 Nov 24 j 18:29	22°M54'55	
direct	969 Jun 28 j 06:44	24° ≙ 53'12		retrograde	975 Feb 24 j 05:17	26°M10'13	
evening set	969 Oct 01 j 11:00	28° ≙ 18′23		opposition	975 May 10 j 19:37	24°M10'12	0°12'19
				min. Earth dist.	975 May 10 j 18:05	24°M10'21	17.96577 AU
conjunction	969 Oct 17 j 10:09	29° ₽ 17'42	0°27'51	direct	975 Jul 27 j 02:41	22°M08'02	
minimum elong	969 Oct 17 j 10:10	29° £ 17'42		evening set	975 Oct 28 j 23:01	25°M26'45	
max. Earth dist.	969 Oct 17 j 01:17		19.63849 AU	evening set	7/3 Oct 20 j 25.01	23 11020 43	
max. Earm uist.			19.03049 AU	. ,.	075 N 12:16 56	260 M 24110	0000127
	969 Oct 28 j 18:11	0°M		conjunction	975 Nov 13 j 16:56	26°M24'18	0°09'27
morning rise	969 Nov 02 j 06:17	0° M ₁6′34		minimum elong	975 Nov 13 j 16:56	26°M24'18	0°09'28
retrograde	970 Feb 01 j 08:51	3°M34'32		behind sun begin	975 Nov 13 j 11:26	26°M23'29	
opposition	970 Apr 17 j 02:09	1°MJ33'39	0°29'29	behind sun end	975 Nov 13 j 22:27	26°M25'07	
min. Earth dist.	970 Apr 17 j 08:22	1°MJ32'59	17.66522 AU	max. Earth dist.	975 Nov 13 j 18:51	26°M24'35	19.99745 AU
	970 May 29 j 02:25	30° Ŗ Ω		morning rise	975 Nov 29 j 09:13	27°M21'37	
direct	970 Jul 03 i 08:04	29° ₽ 29'27		· ·	976 Jan 22 j 17:27	0° ∡ ¹	
	970 Aug 06 j 18:52	0°M		retrograde	976 Feb 28 j 22:14	0° ∡ ³36′21	
evening set	970 Oct 06 j 07:01	2°M53'40		retrograde	976 Apr 07 j 08:07	30°RM	
evening set	970 Oct 00 j 07.01	2 11633 40					0000120
	0.50 0	20M 52112	0005104	opposition	976 May 14 j 16:45	28°M36'27	0°08'38
conjunction	970 Oct 22 j 05:20	3°M52'43	0°25'04	min. Earth dist.	976 May 14 j 13:04	28°M36'50	18.02878 AU
minimum elong	970 Oct 22 j 05:20	3°M52'43	0°25'05	direct	976 Jul 30 j 23:41	26° ™ 34'38	
max. Earth dist.	970 Oct 21 j 23:18	3°ML51'47	19.69292 AU	evening set	976 Nov 01 j 13:46	29°M52'09	
morning rise	970 Nov 07 j 00:33	4°M51'20			976 Nov 03 j 18:11	0° ∡ 7	
retrograde	971 Feb 06 j 03:52	8° M L08'47					
opposition	971 Apr 22 j 01:47	6°ML08'05	0°26'18	conjunction	976 Nov 17 j 07:12	0° ∡ 749′25	0°06'09
min. Earth dist.	971 Apr 22 j 07:13		17.72126 AU	minimum elong	976 Nov 17 j 07:12	0° ∡ 749'25	0°06'09
direct	971 Jul 08 j 07:07	4°ML04'18	17.72120110	behind sun begin	976 Nov 17 j 00:58	0° ∡ 1923	0 00 0)
				•			
evening set	971 Oct 11 j 02:25	7°M27'31		behind sun end	976 Nov 17 j 13:25	0° ₹ 50'21	20.06040.411
				max. Earth dist.	976 Nov 17 j 11:53		20.06040 AU
conjunction	971 Oct 26 j 23:37	8°M26'15	0°22'09	morning rise	976 Dec 02 j 22:54	1° ∡ ′46′29	
minimum elong	971 Oct 26 j 23:38	8°M26'15	0°22'08	retrograde	977 Mar 04 j 13:49	5° ₹ ′00′38	
max. Earth dist.	971 Oct 26 j 18:38	8°M25'29	19.75050 AU	opposition	977 May 19 j 13:19	3° ҂ 00'50	0°04'55
morning rise	971 Nov 11 j 18:14	9°M24'36		min. Earth dist.	977 May 19 j 08:23	3° ∡ 01'21	18.09160 AU
retrograde	972 Feb 10 j 23:49	12°M41'32		direct	977 Aug 04 j 20:38	0° ₹ '59'23	
opposition	972 Apr 26 j 00:51	10°M41'02	0°22'58	evening set	977 Nov 06 j 03:46	4° ∡ 15'40	
min. Earth dist.	972 Apr 26 j 03:34		17.78007 AU	evening see	> / / 1.01 00 j 05.10	. ,. 10 .0	
			17.78007 AU		077 N 21 : 20-26	59.712120	0002140
direct	972 Jul 12 j 07:22	8°M37'39		conjunction	977 Nov 21 j 20:26	5° 🖈 12'39	
evening set	972 Oct 14 j 20:50	11°ML59'48		minimum elong	977 Nov 21 j 20:27	5° ∡ 12'39	0°02′50
				behind sun begin	977 Nov 21 j 13:55	5° ∡ 11'41	
conjunction	972 Oct 30 j 17:17	12°M58'15	0°19'07	behind sun end	977 Nov 22 j 02:59	5° ∡ 13'37	
minimum elong	972 Oct 30 j 17:17	12°M58'15	0°19'07	max. Earth dist.	977 Nov 22 j 01:44	5° ∡ 13'25	20.12320 AU
max. Earth dist.	972 Oct 30 j 15:10	12°M57'56	19.81039 AU	morning rise	977 Dec 07 j 12:01	6° ∡ 09'27	
morning rise	972 Nov 15 j 11:02	13°M56'20		retrograde	978 Mar 09 j 05:10	9° ∡ ¹23'02	
-	972 Dec 03 j 18:49	15° M ₊		opposition	978 May 24 j 08:57	7° ∡ "23′18	0°01'12
retrograde	973 Feb 14 j 17:49	17°ML12'45		min. Earth dist.	978 May 24 j 02:09		18.15442 AU
opposition	973 Apr 30 j 23:45	15°ML12'25	0°19'31	direct	978 Aug 09 j 15:30	5° ∡ 122'09	10.10 1 12 110
min. Earth dist.	973 Apr 30 j 23:43 973 May 01 j 01:36		17.84086 AU	desc. node	978 Sep 21 j 11:20	6° ₹ 08'30	
min. Earth dist.			17.04000 AU			8° 🗷 37'12	
11.	973 May 05 j 23:07	15°RM		evening set	978 Nov 10 j 16:36	8° X '3/12	
direct	973 Jul 17 j 06:03	13°ML09'28				-	
	973 Sep 22 j 16:56	15° M ₊		conjunction	978 Nov 26 j 08:58	9° ∡ ³33'55	
evening set	973 Oct 19 j 14:24	16° M ₊30′29		minimum elong	978 Nov 26 j 08:58	9° ∡ ³33'55	0°00'38
				behind sun begin	978 Nov 26 j 02:26	9° ∡ 32'57	
conjunction	973 Nov 04 j 09:50	17°ML28'38	0°15'58	behind sun end	978 Nov 26 j 15:29	9° ∡ ¹34'53	
minimum elong	973 Nov 04 j 09:50	17°ML28'38	0°15'57	max. Earth dist.	978 Nov 26 j 17:03	9° ∡ "35′07	20.18592 AU
behind sun begin	973 Nov 04 j 08:36	17°ML28'27		morning rise	978 Dec 12 j 00:08	10° ∡ ³30′29	-
behind sun end	973 Nov 04 j 00:30	17°M28'49		retrograde	979 Mar 13 j 19:03	13° × ⁷ 43'28	
max. Earth dist.	•		19.87199 AU	-		13 x · 43 28 11° x 43 48	0.05150
	973 Nov 04 j 08:30		17.0/177 AU	opposition	979 May 29 j 04:00		
morning rise	973 Nov 20 j 03:09	18°M26'28		min. Earth dist.	979 May 28 j 19:36		18.21707 AU
retrograde	974 Feb 19 j 12:27	21°M42'20		direct	979 Aug 14 j 10:25	9° ∡ ¹42'59	
opposition	974 May 05 j 21:59	19°M42'10	0°15'57	evening set	979 Nov 15 j 04:42	12° ∡ 756'48	
min. Earth dist.	974 May 05 j 21:23	19°M42'14	17.90303 AU				
direct	974 Jul 22 j 04:41	17°M39'36		conjunction	979 Nov 30 j 20:23	13° ₹ 753'14	-0°03'58
evening set	974 Oct 24 j 07:04	20°M59'30		minimum elong	979 Nov 30 j 20:24	13° ₹ 53'14	0°03'58
Ç	, and the second			behind sun begin	979 Nov 30 j 13:56	13° ∡ ¹52'17	
conjunction	974 Nov 09 j 01:54	21°M57'21	0°12'44	behind sun end	979 Dec 01 j 02:52	13° × 52'17	
2011,011011	,,, 0, j 01.04	HW3/21	II	ouming built only	200 org 02.02	15 6 5T11	

max. Earth dist.	979 Dec 01 j 05:18	120,75424	20.24863 AU	conjunction	985 Dec 25 j 03:39	9° る 14'09	0°22'15
morning rise	979 Dec 01 j 03:18	14° × 749'35	20.24803 AU	minimum elong	985 Dec 25 j 03:39	9° る 14'09	
retrograde	980 Mar 17 j 09:12	18°×7'02'01		max. Earth dist.	985 Dec 25 j 22:15		20.61911 AU
opposition	980 Jun 01 j 22:20	16° ₹ 02'01 16° ₹ 02'24	-0°06'08	morning rise	986 Jan 09 j 19:05	9 01034 10°る09'21	20.01911 AU
min. Earth dist.	980 Jun 01 j 12:07		18.27998 AU	retrograde	986 Apr 12 j 11:56	10 3 0721	
direct	980 Aug 18 j 03:08	14° × 03 20	18.27998 AU	opposition	986 Jun 28 j 22:03	13 3 1838	-0°26'07
evening set	980 Nov 18 j 15:49	17° ×7 14'32		min. Earth dist.	986 Jun 28 j 03:23		18.64758 AU
evening set	900 NOV 10 J 13.49	1/ 🗶 14 32		direct	986 Sep 13 j 14:31	9° る 21'43	16.04/36 AU
aamiumatiam	000 Dec 04: 07:10	100.710142	0007112			9 3 21 43 12° 3 27'53	
conjunction	980 Dec 04 j 07:18	18° × 10'42		evening set	986 Dec 13 j 20:36	12 02/33	
minimum elong	980 Dec 04 j 07:17	18° ₹ 10'42	0°0/13	. ,.	00(D 20:11.10	120=22246	0024157
behind sun begin	980 Dec 04 j 01:15	18° ∡ 09'49		conjunction	986 Dec 29 j 11:10	13° ♂ 22'46	
behind sun end	980 Dec 04 j 13:19	18° ∡ 11'35	20.21162.177	minimum elong	986 Dec 29 j 11:10	13° る 22'46	
max. Earth dist.	980 Dec 04 j 19:03		20.31162 AU	max. Earth dist.	986 Dec 30 j 07:31		20.67508 AU
morning rise	980 Dec 19 j 22:08	19° ∡ ¹06'49 −		morning rise	987 Jan 14 j 02:45	14° る 17'49	
retrograde	981 Mar 21 j 22:06	22° ∡ 18'42 −		retrograde	987 Apr 16 j 23:41	17° る 27'03	
opposition	981 Jun 06 j 15:58	20° ∡ 19'11 −		opposition	987 Jul 03 j 11:48	15° පි 28'11	
min. Earth dist.	981 Jun 06 j 03:46		18.34304 AU	min. Earth dist.	987 Jul 02 j 15:36		18.70188 AU
direct	981 Aug 22 j 19:50	18° ≯ 19'03		direct	987 Sep 18 j 03:52	13° る 30'12	
evening set	981 Nov 23 j 02:15	21° ∡ ³30′29		evening set	987 Dec 18 j 03:34	16° る 35'26	
	001 5 00:17.14	220 726124	0010122		000 1 02:10.04	170-720100	0007100
conjunction	981 Dec 08 j 17:14	22° ∡ ¹26'24		conjunction	988 Jan 02 j 18:04	17° る 30'09	
minimum elong	981 Dec 08 j 17:15	22° ∡ ¹26'24	0°10'23	minimum elong	988 Jan 02 j 18:04	17° 云 30'09	
behind sun begin	981 Dec 08 j 12:03	22° ∡ ¹25'39 −		max. Earth dist.	988 Jan 03 j 14:31		20.72752 AU
behind sun end	981 Dec 08 j 22:27	22° ₹ 27'10		morning rise	988 Jan 18 j 10:05	18° る 25'04	
max. Earth dist.	981 Dec 09 j 05:51	22° ∡ °28′17	20.37472 AU	retrograde	988 Apr 20 j 10:24	21° る 33'58	
morning rise	981 Dec 24 j 08:13	23° ∡ ′22'19		min. Earth dist.	988 Jul 06 j 05:01		18.75253 AU
retrograde	982 Mar 26 j 11:16	26° х ³33'42		opposition	988 Jul 07 j 01:10	19° る 35'09	-0°31'45
opposition	982 Jun 11 j 08:54	24° ∡ °34'17	-0°13'13	direct	988 Sep 21 j 13:41	17° る 37'27	
min. Earth dist.	982 Jun 10 j 19:14	24° ₹ 35'40	18.40619 AU	evening set	988 Dec 21 j 10:04	20° ♂ 41'47	
direct	982 Aug 27 j 10:04	22° ҂ ³34'30					
evening set	982 Nov 27 j 11:52	25° х 44'49		conjunction	989 Jan 06 j 00:52	21° පි 36'21	-0°29'52
	-			minimum elong	989 Jan 06 j 00:52	21° පි 36'21	0°29'52
conjunction	982 Dec 13 j 02:47	26° х 40′30	-0°13'30	max. Earth dist.	989 Jan 06 j 22:38	21° る 39'32	20.77606 AU
minimum elong	982 Dec 13 j 02:47	26° ∡ ′40′30		morning rise	989 Jan 21 j 17:10	22° る 31'09	
behind sun begin	982 Dec 12 j 23:00	26° ⋌ ³39'57		retrograde	989 Apr 24 j 21:04	25° ♂ 39'42	
behind sun end	982 Dec 13 j 06:33	26° × ⁷ 41'03		opposition	989 Jul 11 j 13:44	23° る 40'55	-0°34'18
max. Earth dist.	982 Dec 13 j 17:56		20.43762 AU	min. Earth dist.	989 Jul 10 j 16:13		18.79889 AU
morning rise	982 Dec 28 j 17:36	27° × ⁷ 36'13	20.10702110	direct	989 Sep 26 j 01:53	21°₹43'27	10.7,500,110
morning risc	983 Feb 15 j 16:42	0° る		evening set	989 Dec 25 j 16:15	24° ♂ 46'56	
retrograde	983 Mar 30 j 23:49	0°る47'06		evening set	989 Dec 25 j 10.15	24 04030	
retrograde		0°R.∡7		conjunction	990 Jan 10 j 07:10	25° る 41'22	0022106
i. Faul die	983 May 15 j 01:50		18.46870 AU		•		
min. Earth dist.	983 Jun 15 j 09:26			minimum elong	990 Jan 10 j 07:10	25° る 41'22	
opposition	983 Jun 16 j 00:59	28° х 47'49	-0°16'3/	max. Earth dist.	990 Jan 11 j 04:43		20.82011 AU
direct	983 Sep 01 j 01:25	26° ₹ 48'25		morning rise	990 Jan 26 j 00:04	26° る 36'04	
evening set	983 Dec 01 j 21:00	29° ₹ 57'38		retrograde	990 Apr 29 j 06:58	29° る 44'18	10.04074.433
	983 Dec 02 j 13:15	0° ප		min. Earth dist.	990 Jul 15 j 04:47		18.84074 AU
	002 D 15:11.24	00750106	001 (101	opposition	990 Jul 16 j 01:51	27° る 45'30	-0°36'40
conjunction	983 Dec 17 j 11:34	0°る53'06		direct	990 Sep 30 j 10:40	25°る48'13	
minimum elong	983 Dec 17 j 11:33	0° る 53'06		evening set	990 Dec 29 j 21:52	28°る50'53	
max. Earth dist.	983 Dec 18 j 03:25		20.49970 AU			_	
morning rise	984 Jan 02 j 02:37	1° る 48'38		conjunction	991 Jan 14 j 13:12	29° ⋜ 45'12	
retrograde	984 Apr 03 j 12:05	4° る 59'04		minimum elong	991 Jan 14 j 13:12	29° る 45'12	
opposition	984 Jun 19 j 16:43	2° る 59'54	-0°19'55	max. Earth dist.	991 Jan 15 j 11:50		20.85967 AU
min. Earth dist.	984 Jun 19 j 00:10	3° る 01'34	18.53030 AU		991 Jan 18 j 18:35	0° ≈	
direct	984 Sep 04 j 13:28	1° る 00'53		morning rise	991 Jan 30 j 06:29	0° ≈ 39'49	
evening set	984 Dec 05 j 05:14	4° る 09'02		retrograde	991 May 03 j 16:31	3° ≈ 47'44	
				opposition	991 Jul 20 j 13:09	1° ≈ 48'54	-0°38'50
conjunction	984 Dec 20 j 19:50	5° る 04'17	-0°19'26	min. Earth dist.	991 Jul 19 j 14:46	1° ≈ 51'09	18.87805 AU
minimum elong	984 Dec 20 j 19:50	5° る 04'17	0°19'26		991 Sep 16 j 16:37	30°Ŗる	
max. Earth dist.	984 Dec 21 j 14:01	5° る 06'59	20.56047 AU	direct	991 Oct 04 j 21:22	29° る 51'46	
morning rise	985 Jan 05 j 10:55	5° る 59'38			991 Oct 22 j 19:19	0° ≈	
retrograde	985 Apr 08 j 00:35	9° る 09'40		evening set	992 Jan 03 j 03:15	2° ≈ 53'41	
opposition	985 Jun 24 j 07:44	7° る 10'36	-0°23'05	- C	,		
min. Earth dist.	985 Jun 23 j 13:24		18.59008 AU	conjunction	992 Jan 18 j 18:48	3° ≈ 47'54	-0°36'02
direct	985 Sep 09 j 03:53	5° ਰ 11'58		minimum elong	992 Jan 18 j 18:48	3°≈47'54	
evening set	985 Dec 09 j 13:14	8° ට 1190		max. Earth dist.	992 Jan 19 j 17:18		20.89487 AU
		5 -17 00		morning rise	992 Feb 03 j 12:47	4°≈42'27	110
					//2100 05 J 12.7/		

retrograde	992 May 07 j 01:14	7°≈50'06		opposition	998 Aug 18 j 07:09	29° ≈ 50'15	-0°48'00
min. Earth dist.	992 Jul 23 j 02:14		18.91139 AU	direct	998 Nov 01 j 22:06	27°≈53'56	0 40 00
opposition	992 Jul 24 i 00:07	5°≈51'12		uncet	999 Jan 14 j 04:14	0° ∺	
direct	992 Oct 08 j 05:13	3°≈54'12	0 10 10	evening set	999 Jan 30 j 10:49	0°) 52'38	
evening set	993 Jan 06 j 08:02	6°≈55'25			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,	
844	, , , , , , , , , , , , , , , , , , ,			conjunction	999 Feb 15 j 06:35	1°) 46'41	-0°43'40
conjunction	993 Jan 22 j 00:09	7° ≈ 49'33	-0°37'43	minimum elong	999 Feb 15 j 06:35	1°) 46'41	0°43'39
minimum elong	993 Jan 22 j 00:09	7° ≈ 49'33	0°37'44	max. Earth dist.	999 Feb 16 j 07:36	1° ¥ 50'17	21.04254 AU
max. Earth dist.	993 Jan 22 j 23:51	7° ≈ 52'59	20.92632 AU	morning rise	999 Mar 03 j 05:42	2°) 41′14	
morning rise	993 Feb 06 j 18:39	8° ≈ 44'02		retrograde	999 Jun 05 j 13:57	5°) 48′19	
retrograde	993 May 11 j 10:45	11° ≈ 51′28		opposition	999 Aug 22 j 15:09	3°) (49′13	-0°48'25
min. Earth dist.	993 Jul 27 j 11:03	9° ≈ 54'50	18.94101 AU	min. Earth dist.	999 Aug 21 j 15:34	3°) 51′34	19.04644 AU
opposition	993 Jul 28 j 10:19	9° ≈ 52'31	-0°42'33	direct	999 Nov 06 j 05:11	1° 米 52'59	
direct	993 Oct 12 j 14:11	7° ≈ 55'37		evening set	1000 Feb 03 j 15:36	4°) 51′30	
evening set	994 Jan 10 j 12:53	10° ≈ 56′13					
				conjunction	1000 Feb 19 j 12:01	5°) 45'37	-0°43'56
conjunction	994 Jan 26 j 05:20	11° ≈ 50'17	-0°39'12	minimum elong	1000 Feb 19 j 12:01	5°) 45′37	
minimum elong	994 Jan 26 j 05:20	11° ≈ 50′17	0°39'12	max. Earth dist.	1000 Feb 20 j 12:10		21.04830 AU
max. Earth dist.	994 Jan 27 j 04:54	11° ≈ 53'42	20.95414 AU	morning rise	1000 Mar 06 j 12:07	6°) 40′14	
morning rise	994 Feb 11 j 00:36	12° ≈ 44'45		retrograde	1000 Jun 08 j 21:20	9° ∺ 47'25	
	994 Mar 30 j 00:44	15° ≈		opposition	1000 Aug 25 j 23:09	7°) 48′17	
retrograde	994 May 15 j 18:22	15° ≈ 52'00		min. Earth dist.	1000 Aug 25 j 01:10		19.04990 AU
	994 Jul 03 j 02:56	15°R ≈		direct	1000 Nov 09 j 09:28	5°) 52′06	
opposition	994 Aug 01 j 20:01	13° ≈ 52'59		evening set	1001 Feb 06 j 20:28	8° ¥ 50'31	
min. Earth dist.	994 Jul 31 j 21:25		18.96729 AU				
direct	994 Oct 16 j 20:57	11° ≈ 56'12		conjunction	1001 Feb 22 j 17:51	9°) (44'43	
evening set	995 Jan 14 j 17:20	14°≈56'17		minimum elong	1001 Feb 22 j 17:51	9°) (44'43	
	995 Jan 15 j 19:43	15° ≈		max. Earth dist.	1001 Feb 23 j 17:51		21.04929 AU
	005 7 00:10.00	150 50110	0040120	morning rise	1001 Mar 10 j 18:48	10°) (39′25	
conjunction	995 Jan 30 j 10:26	15°≈50'19		retrograde	1001 Jun 13 j 06:58	13°) (46'42	10.04010.411
minimum elong	995 Jan 30 j 10:26	15°≈50'19		min. Earth dist.	1001 Aug 29 j 08:34		19.04818 AU
max. Earth dist.	995 Jan 31 j 11:00		20.97878 AU	opposition	1001 Aug 30 j 06:49	11° 米 47'31 9° 米 51'21	-0°48′33
morning rise	995 Feb 15 j 06:17	16°≈44'45		direct	1001 Nov 13 j 16:10	12° H 49'44	
retrograde min. Earth dist.	995 May 20 j 04:14	19°≈51'52	18.99026 AU	evening set	1002 Feb 11 j 01:50	12° π 49'44	
opposition	995 Aug 05 j 05:19 995 Aug 06 j 05:15	17 ≈53 13 17°≈52'49		conjunction	1002 Feb 26 j 23:57	13°) 44′00	0042151
direct	995 Oct 21 j 04:44	17 ≈5249 15°≈56'10	-0 43 24	minimum elong	1002 Feb 26 j 23:57	13° X 44'00	
evening set	996 Jan 18 j 21:40	13 ≈ 55'46		max. Earth dist.	1002 Feb 27 j 22:34		21.04477 AU
evening set	770 Jan 10 j 21.40	10 ~33 40		morning rise	1002 New 27 j 22:54	14° H 38'48	21.044// AO
conjunction	996 Feb 03 j 15:14	19° ≈ 49'47	-0°41'36	retrograde	1002 Jun 17 j 14:36	17°) 46'13	
minimum elong	996 Feb 03 j 15:14	19° ≈ 49'47		opposition	1002 Sep 03 j 14:24	15°) (46'57	-0°48'16
max. Earth dist.	996 Feb 04 i 15:39		21.00006 AU	min. Earth dist.	1002 Sep 02 j 18:07		19.04091 AU
morning rise	996 Feb 19 j 11:57	20° ≈ 44'14		direct	1002 Nov 17 j 20:30	13°) € 50'44	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
retrograde	996 May 23 j 11:21	23° ≈ 51'17		evening set	1003 Feb 15 j 07:17	16°) 49′08	
opposition	996 Aug 09 j 14:20	21° ≈ 52'12	-0°46'29	C	,		
min. Earth dist.	996 Aug 08 j 15:13	21° ≈ 54'31	19.00994 AU	conjunction	1003 Mar 03 j 06:25	17°) 43′30	-0°43'29
direct	996 Oct 24 j 10:19	19° ≈ 55'40		minimum elong	1003 Mar 03 j 06:25	17°) 43′30	0°43'28
evening set	997 Jan 22 j 01:58	22° ≈ 54'54		max. Earth dist.	1003 Mar 04 j 04:30	17°) 46′40	21.03479 AU
				morning rise	1003 Mar 19 j 09:15	18° ¥ 38′25	
conjunction	997 Feb 06 j 20:19	23° ≈ 48'54	-0°42'29	retrograde	1003 Jun 22 j 00:03	21°) 45′59	
minimum elong	997 Feb 06 j 20:19	23° ≈ 48'54	0°42'29	opposition	1003 Sep 07 j 21:50	19°) 46′35	-0°47'44
max. Earth dist.	997 Feb 07 j 21:29	23° ≈ 52'31	21.01804 AU	min. Earth dist.	1003 Sep 07 j 01:27		19.02807 AU
morning rise	997 Feb 22 j 17:45	24° ≈ 43′22		direct	1003 Nov 22 j 03:10	17° ∺ 50′16	
retrograde	997 May 27 j 21:16	27° ≈ 50′23		evening set	1004 Feb 19 j 12:59	20°) 48'43	
opposition	997 Aug 13 j 22:45	25° ≈ 51'17	-0°47'22				
min. Earth dist.	997 Aug 12 j 22:38		19.02609 AU	conjunction	1004 Mar 06 j 12:58	21°) 43′12	
direct	997 Oct 28 j 17:36	23° ≈ 54'52		minimum elong	1004 Mar 06 j 12:58	21°) 43'12	
evening set	998 Jan 26 j 06:26	26° ≈ 53'47		max. Earth dist.	1004 Mar 07 j 09:41		21.01927 AU
	000 F	0 mc · ·	00.40:	morning rise	1004 Mar 22 j 16:53	22°\(\)38'14	
conjunction	998 Feb 11 j 01:22	27°≈47'49		retrograde	1004 Jun 25 j 07:51	25°) (45'58	10.00005 : *=
minimum elong	998 Feb 11 j 01:22	27°≈47'49		min. Earth dist.	1004 Sep 10 j 10:55		19.00996 AU
max. Earth dist.	998 Feb 12 j 02:00		21.03226 AU	opposition	1004 Sep 11 j 05:17	23°) 46'24	-0~46'59
morning rise	998 Feb 26 j 23:44	28° ≈ 42'19		direct	1004 Nov 25 j 07:26	21°) 49'57	
ratro are do	998 Mar 23 j 14:37	0° ₩		evening set	1005 Feb 22 j 18:59	24° ∺ 48'30	
retrograde	998 Jun 01 j 04:17	1° ¥ 49′21		agniumation	1005 Mar. 10 : 20:04	250142100	0042104
min. Earth dist.	998 Aug 14 j 05:39 998 Aug 17 j 08:15	30°R≈ 20°≈52'33	19.03839 AU	conjunction minimum elong	1005 Mar 10 j 20:04 1005 Mar 10 j 20:04	25°) 43'08 25°) 43'08	
mm. Darm UISt.	770 Aug 1/J 00.13	∠, ~ 3∠33	17.03037 AU	mmmum ciong	1005 Mai 10 J 20.04	25 八 +308	0 72 00

max. Earth dist.	1005 Mar 11 j 16:12	25° ¥ 46′01	20.99884 AU	min. Earth dist.	1011 Oct 09 j 20:03	22° Y 00'34	18.77868 AU
morning rise	1005 Mar 27 j 00:56	26° ₩ 38'19	20.5500.110	direct	1011 Dec 24 j 00:28	20° Υ 01'30	10.77000110
retrograde	1005 Jun 29 j 17:32	29°) 46'13		evening set	1012 Mar 23 j 02:08	23° Υ 03'00	
opposition	1005 Sep 15 j 12:17	27°) (46'28	-0°45'59	evening set	1012 Mai 25 j 02.00	23 1 03 00	
min. Earth dist.	1005 Sep 14 j 17:57		18.98717 AU	conjunction	1012 Apr 08 j 10:18	23° Y 59'01	0°31'02
direct	1005 Sep 14 j 17:57 1005 Nov 29 j 14:08	25° H 49'49	16.96/1/ AU	minimum elong	1012 Apr 08 j 10:18	23° Υ 59'01	
	1005 Nov 29 j 14:08 1006 Feb 27 j 01:28	28° H 48'35		max. Earth dist.	1012 Apr 08 j 22:22		20.75666 AU
evening set	1000 Feb 2/ J 01.28	26 X 4633				24 Y 00 43 24° Y 55'34	20.73000 AU
agniumation	1006 Mar 15: 02:25	29° ∺ 43'22	0941106	morning rise	1012 Apr 24 j 22:01 1012 Jul 28 j 15:58	24 γ 33 34 28° γ 05'49	
conjunction	1006 Mar 15 j 03:25			retrograde			0022102
minimum elong	1006 Mar 15 j 03:25	29°\(\)43'22	0°41'06	opposition	1012 Oct 13 j 16:05	26° Y 05'07	
max. Earth dist.	1006 Mar 15 j 22:12		20.97388 AU	min. Earth dist.	1012 Oct 13 j 06:23		18.73407 AU
	1006 Mar 19 j 23:50	0° Υ		direct	1012 Dec 27 j 06:27	24°Υ07'06	
morning rise	1006 Mar 31 j 09:20	0° Υ 38'41		evening set	1013 Mar 27 j 12:45	27° Y 09′20	
retrograde	1006 Jul 04 j 01:25	3° Y 46′48					
opposition	1006 Sep 19 j 19:29	1° Y 46'53		conjunction	1013 Apr 12 j 21:59	28° Y 05'37	
min. Earth dist.	1006 Sep 19 j 03:08		18.96024 AU	minimum elong	1013 Apr 12 j 21:59	28° Y 05'37	
	1006 Nov 14 j 00:23	30° ₹		max. Earth dist.	1013 Apr 13 j 08:27		20.71072 AU
direct	1006 Dec 03 j 18:20	29° ¥ 50′02		morning rise	1013 Apr 29 j 10:36	29° Y 02′24	
	1006 Dec 23 j 08:07	$0^{\circ}\mathbf{\Upsilon}$			1013 May 17 j 04:27	0°8	
evening set	1007 Mar 03 j 08:03	2° Ƴ 49'03		retrograde	1013 Aug 02 j 05:30	2° 8 13'08	
				opposition	1013 Oct 18 j 00:14	0° 8 12'22	
conjunction	1007 Mar 19 j 11:05	3° Ƴ 43'59	-0°39'54	min. Earth dist.	1013 Oct 17 j 15:17		18.68650 AU
minimum elong	1007 Mar 19 j 11:05	3° Ƴ 43'59	0°39'55		1013 Oct 22 j 23:41	30° Ŗϓ	
max. Earth dist.	1007 Mar 20 j 05:20	3° Ƴ 46'36	20.94520 AU	direct	1013 Dec 31 j 14:27	28° Ƴ 14'07	
morning rise	1007 Apr 04 j 17:56	4° Ƴ 39'29			1014 Mar 07 j 17:36	$8^{\circ 0}$	
retrograde	1007 Jul 08 j 11:50	7° Ƴ 47'52		evening set	1014 Apr 01 j 00:17	1° 8 17'10	
min. Earth dist.	1007 Sep 23 j 10:08	5° Ƴ 49'26	18.92978 AU				
opposition	1007 Sep 24 j 02:33	5° Ƴ 47'45	-0°43'20	conjunction	1014 Apr 17 j 10:28	2° 8 13'43	-0°26'16
direct	1007 Dec 08 j 01:00	3° Ƴ 50'43		minimum elong	1014 Apr 17 j 10:28	2° 8 13'43	0°26'16
evening set	1008 Mar 06 j 15:21	6° Y 50′03		max. Earth dist.	1014 Apr 17 j 19:08	2° 8 14'57	20.66147 AU
-	·			morning rise	1014 May 03 j 23:54	3° 8 10'45	
conjunction	1008 Mar 22 j 19:19	7° Ƴ 45'11	-0°38'30	retrograde	1014 Aug 06 j 17:07	6° 8 22'00	
minimum elong	1008 Mar 22 j 19:19	7° Ƴ 45'11	0°38'29	opposition	1014 Oct 22 j 09:04	4° 8 21'09	-0°27'36
max. Earth dist.	1008 Mar 23 j 12:15	7° Ƴ 47'36	20.91310 AU	min. Earth dist.	1014 Oct 22 j 02:35	4° 8 21'49	18.63557 AU
morning rise	1008 Apr 08 j 03:12	8° Ƴ 40'52		direct	1015 Jan 04 j 21:13	2° 8 22'39	
retrograde	1008 Jul 11 j 20:23	11° Y 49'32		evening set	1015 Apr 05 j 12:28	5° 8 26'33	
opposition	1008 Sep 27 j 09:44	9° Ƴ 49'16	-0°41'41	Ü	1 3	_	
min. Earth dist.	1008 Sep 26 j 19:19		18.89618 AU	conjunction	1015 Apr 21 j 23:38	6° 8 23'22	-0°23'39
direct	1008 Dec 11 j 05:38	7° Υ 52'01		minimum elong	1015 Apr 21 j 23:38	6° 8 23'22	
evening set	1009 Mar 10 j 23:04	10° Y 51'47		max. Earth dist.	1015 Apr 22 j 06:14		20.60893 AU
evening sec	1009 11111 10 1 20.01	10 101		morning rise	1015 May 08 j 13:55	7° 8 20'40	20.00093110
conjunction	1009 Mar 27 j 04:11	11° Y 47'06	-0°36'54	retrograde	1015 Aug 11 j 08:04	10° 8 32'27	
minimum elong	1009 Mar 27 j 04:11	11° Υ 47'06		opposition	1015 Aug 11 j 00:04 1015 Oct 26 j 18:13	8° 8 31'28	-0°24'38
max. Earth dist.	1009 Mar 27 j 20:16		20.87813 AU	min. Earth dist.	1015 Oct 26 j 12:43		18.58122 AU
morning rise	1009 Apr 12 j 13:02	12° Υ 42'59	20.07013110	direct	1016 Jan 09 j 06:46	6° 8 32'41	10.50122 110
retrograde	1009 Jul 16 j 07:36	15° Υ 51'59		evening set	1016 Apr 09 j 01:42	9° 8 37'28	
opposition	1009 Oct 01 j 16:56	13° Υ 51'34	0.30,40	evening set	1010 Apr 07 j 01.42) 03/28	
min. Earth dist.	1009 Oct 01 j 10:30		18.85972 AU	conjunction	1016 Apr 25 j 13:51	10° 8 34'35	-0°20'53
direct	1009 Dec 15 j 12:15	13 γ 53 03	10.03772 AC	minimum elong	1016 Apr 25 j 13:51	10° 8 34'35	
evening set	1010 Mar 15 j 07:28	14° Υ 54'23		max. Earth dist.	1016 Apr 25 j 18:31		20.55277 AU
evening set	1010 Wai 13 j 07.28	14 3423		morning rise	1016 May 12 j 04:52	11° 8 32'09	20.33277 AU
conjunction	1010 Mar 31 j 13:31	15° Ƴ 49'56	0025100	retrograde	1016 May 12 j 04:32 1016 Aug 14 j 20:28	14° 8 44'25	
minimum elong	1010 Mar 31 j 13:31	15° Y 49′56		opposition	1016 Aug 14 j 20.28 1016 Oct 30 j 03:48	12° 8 43'19	0021120
max. Earth dist.	1010 Mai 31 j 13.31 1010 Apr 01 j 04:11		20.84023 AU	min. Earth dist.	1016 Oct 30 j 00:51		18.52337 AU
		15 1 32 02 16° Y 46′01	20.84023 AU		1016 Oct 30 j 00.31 1017 Jan 12 j 14:37	12 8 43 37	16.32337 AU
morning rise	1010 Apr 16 j 23:20	16 ↑ 46 01 19° Y 55'24		direct	3		
retrograde	1010 Jul 20 j 17:07	19° γ '55'24 17° γ '54'52	0037146	evening set	1017 Apr 13 j 15:45	13° 8 49'55	
opposition	1010 Oct 06 j 00:23			aaniu	1017 4 20:04.51	140 47110	0017150
min. Earth dist.	1010 Oct 05 j 12:07		18.82047 AU	conjunction	1017 Apr 30 j 04:51	14° 8 47'19	
direct	1010 Dec 19 j 17:30	15° Y 57'14		minimum elong	1017 Apr 30 j 04:50	14° 8 47'19	
evening set	1011 Mar 19 j 16:26	18° Ƴ 58'05		max. Earth dist.	1017 Apr 30 j 07:03		20.49351 AU
	1011 4 04:22 22	10000	0022110		1017 May 03 j 19:44	15° 8	
conjunction	1011 Apr 04 j 23:35	19° Y 53'51		morning rise	1017 May 16 j 20:39	15° 8 45'08	
minimum elong	1011 Apr 04 j 23:35	19° Y 53'51	0°33'10	retrograde	1017 Aug 19 j 12:07	18° 8 57'56	
max. Earth dist.	1011 Apr 05 j 13:09		20.79983 AU	opposition	1017 Nov 03 j 13:44	16° 8 56'39	
morning rise	1011 Apr 21 j 10:21	20° Y 50′09		min. Earth dist.	1017 Nov 03 j 11:56		18.46263 AU
retrograde	1011 Jul 25 j 05:16	23° Y 59′57			1018 Jan 06 j 18:12	15° ₹ 8	
opposition	1011 Oct 10 j 08:01	21° Y 59′20	-0°35'30	direct	1018 Jan 17 j 01:56	14° 8 57'10	

evening set	1018 Jan 27 j 10:08 1018 Apr 18 j 06:32	15° ප 18° ප 03'51		conjunction minimum elong behind sun begin	1023 May 27 j 14:41 1023 May 27 j 14:41 1023 May 27 j 07:55	10°Д36'12 10°Д36'12 10°Д35'13	
conjunction	1018 May 04 j 20:29	19° 8 01'33 -(0°14'59	behind sun end	1023 May 27 j 21:27	10° Ⅲ 37'11	
minimum elong	1018 May 04 j 20:30	19° 8 01'33 (0°14'59	max. Earth dist.	1023 May 27 j 05:43	10° Ⅱ 34'53	20.10768 AU
behind sun begin	1018 May 04 j 18:18	19° 8 01'14		morning rise	1023 Jun 13 j 09:27	11° Ⅱ 35'34	
behind sun end	1018 May 04 j 22:42	19° 8 01'52		retrograde	1023 Sep 15 j 08:16	14° Ⅱ 51'32	
max. Earth dist.	1018 May 04 j 21:07	19° 8 01'38 2	20.43146 AU	opposition	1023 Nov 29 j 11:42	12° Ⅱ 49'19	0°03'14
morning rise	1018 May 21 j 12:52	19° 8 59'38		min. Earth dist.	1023 Nov 29 j 19:13	12° Ⅱ 48'31	18.07580 AU
retrograde	1018 Aug 24 j 01:01	23° 8 12'56		direct	1024 Feb 12 j 04:22	10° Ⅲ 47'24	
opposition	1018 Nov 08 j 00:10	21° 8 11'29 -(evening set	1024 May 14 j 17:14	14° Ⅱ 00'48	
min. Earth dist.	1018 Nov 08 j 00:40	21° 8 11'26 1	18.39952 AU		102434 21:11.22	150 1100115	000 4120
direct	1019 Jan 21 j 11:09	19° 8 11'36		conjunction	1024 May 31 j 11:22	15° Ⅱ 00'15	0°04'39
evening set	1019 Apr 22 j 22:09	22° 8 19'18		minimum elong	1024 May 31 j 11:22	15° Ⅱ 00'15 14° Ⅱ 59'18	0°04'38
conjunction	1019 May 09 j 12:55	23° 8 17'18 -(0011/53	behind sun begin behind sun end	1024 May 31 j 04:44 1024 May 31 j 18:00	14 Д 3918 15° Д 01'13	
minimum elong	1019 May 09 j 12:55	23° 8 17'18 (max. Earth dist.	1024 May 31 j 18:00 1024 May 31 j 01:45		20.04452 AU
behind sun begin	1019 May 09 j 12:33	23° 8 16'38	0 11 54	morning rise	1024 Jun 17 j 06:10	15° I I59'52	20.04432 AO
behind sun end	1019 May 09 j 17:31	23° 8 17'57		retrograde	1024 Sep 19 j 01:47	19° Ⅱ 16'21	
max. Earth dist.	1019 May 09 j 11:07	23° 8 17'02 2	20 36767 AU	opposition	1024 Dec 03 j 01:23	17° Ⅱ 10′21	0°06'57
morning rise	1019 May 26 j 06:00	24° 8 15'39	20.50707110	min. Earth dist.	1024 Dec 03 j 10:21		18.01336 AU
retrograde	1019 Aug 28 j 17:10	27° 8 29'27		direct	1025 Feb 15 j 19:12	15° Ⅱ 11'51	10.01330110
opposition	1019 Nov 12 j 10:56	25° 8 27'49 -(0°11'22	evening set	1025 May 19 j 14:21	18° Ⅲ 26′28	
min. Earth dist.	1019 Nov 12 j 12:33	25° 8 27'39 1					
direct	1020 Jan 25 j 23:54	23° 8 27'31		conjunction	1025 Jun 05 j 08:45	19° Ⅲ 26′13	0°07'58
evening set	1020 Apr 26 j 14:35	26° 8 36'17		minimum elong	1025 Jun 05 j 08:45	19° Ⅲ 26′13	0°07'58
C	1 3			behind sun begin	1025 Jun 05 j 02:43	19° Ⅲ 25′20	
conjunction	1020 May 13 j 06:14	27° 8 34'35 -(0°08'43	behind sun end	1025 Jun 05 j 14:47	19° Ⅲ 27′05	
minimum elong	1020 May 13 j 06:14	27° 8 34'35 (0°08'42	max. Earth dist.	1025 Jun 04 j 20:24	19° Ⅲ 24′22	19.98293 AU
behind sun begin	1020 May 13 j 00:24	27° 8 33'45		morning rise	1025 Jun 22 j 03:49	20° Ⅲ 26′04	
behind sun end	1020 May 13 j 12:03	27° 8 35'25		retrograde	1025 Sep 23 j 20:32	23° II 43'07	
max. Earth dist.	1020 May 13 j 03:12	27° 8 34'09 2	20.30266 AU	opposition	1025 Dec 07 j 15:53	21° Ⅱ 40'49	0°10'39
morning rise	1020 May 29 j 23:45	28° 8 33'11		min. Earth dist.	1025 Dec 08 j 02:14		17.95260 AU
	1020 Jun 25 j 23:40	Π $^{\circ}0$		direct	1026 Feb 20 j 10:58	19° Ⅲ 38′13	
retrograde	1020 Sep 01 j 06:57	1° Ⅱ 47'31		evening set	1026 May 24 j 12:08	22° Ⅱ 54'07	
	1020 Nov 10 j 07:34	30° ₹ 8					
opposition	1020 Nov 15 j 22:18	29° 8 45'43 -(conjunction	1026 Jun 10 j 07:01	23° ∏ 54'08	0°11'17
min. Earth dist.	1020 Nov 16 j 01:57	29° 8 45'20 1	8.26974 AU	minimum elong	1026 Jun 10 j 07:00	23° I 54'08	0°11'16
direct	1021 Jan 29 j 11:02	27° 8 45'00		behind sun begin	1026 Jun 10 j 02:06	23° ∏ 53′24	
	1021 Apr 14 j 20:07	0°II		behind sun end	1026 Jun 10 j 11:54	23° Ⅱ 54'51	10.00004 444
evening set	1021 May 01 j 08:01	0° Ⅱ 54'52		max. Earth dist.	1026 Jun 09 j 18:12		19.92284 AU
	1021 M 10 : 00-16	1° Ⅱ 53'27 -(0005120	morning rise	1026 Jun 27 j 01:54	24° ∏ 54'12 28° ∏ 11'48	
conjunction	1021 May 18 j 00:16	1° Д 53'27 -0		retrograde	1026 Sep 28 j 15:58	28°Щ11'48 26°Щ09'30	0014120
minimum elong behind sun begin	1021 May 18 j 00:16 1021 May 17 j 17:46	1° II 5327 (0 03 28	opposition min. Earth dist.	1026 Dec 12 j 07:06 1026 Dec 12 j 18:43		17.89324 AU
behind sun end	1021 May 17 j 17:40 1021 May 18 j 06:47	1° I I52'30		direct	1027 Feb 25 j 03:26	24° I 106'36	17.07324 AO
max. Earth dist.	1021 May 17 j 18:43	1° II 52'39 2	20 23726 AU	evening set	1027 May 29 j 11:09	27° Ⅲ 23'45	
morning rise	1021 Jun 03 j 18:21	2° П 52'19	0.23720110	evening sec	1027 May 29 J 11:09	2, 225 10	
retrograde	1021 Sep 05 j 23:29	6° Ⅲ 07′10		conjunction	1027 Jun 15 j 06:05	28° Ⅲ 24'01	0°14'33
opposition	1021 Nov 20 j 10:04	4° Ⅱ 05'13 -(0°04'10	minimum elong	1027 Jun 15 j 06:05	28° Ⅲ 24′01	0°14'33
min. Earth dist.	1021 Nov 20 j 14:49	4° Ⅲ 04'42 1	8.20441 AU	behind sun begin	1027 Jun 15 j 03:25	28° Ⅲ 23'38	
direct	1022 Feb 03 j 00:41	2° Ⅲ 04'04		behind sun end	1027 Jun 15 j 08:45	28° Ⅲ 24'25	
evening set	1022 May 06 j 02:11	5° Ⅱ 15'05		max. Earth dist.	1027 Jun 14 j 14:22	28° Ⅲ 21'40	19.86420 AU
				morning rise	1027 Jul 02 j 01:04	29° Ⅱ 24'19	
conjunction	1022 May 22 j 19:11	6° Ⅱ 13'58 -0	0°02'10		1027 Jul 12 j 08:29	0 \circ 60	
minimum elong	1022 May 22 j 19:11		0°02'10	retrograde	1027 Oct 03 j 12:05	2° 5 42'27	
behind sun begin	1022 May 22 j 12:25	6° Ⅱ 12'59		opposition	1027 Dec 16 j 22:59	0° 5 40'09	
behind sun end	1022 May 23 j 01:58	6° Ⅱ 14'56		min. Earth dist.	1027 Dec 17 j 12:24		17.83534 AU
max. Earth dist.	1022 May 22 j 12:46	6° Ⅱ 13'03 2	20.17201 AU		1028 Jan 01 j 16:51	30°RⅡ	
morning rise	1022 Jun 08 j 13:29	7° I 13'05		direct	1028 Feb 29 j 20:42	28° Ⅱ 36'54	
retrograde	1022 Sep 10 j 14:58	10° Ⅱ 28′28	0000100		1028 Apr 27 j 06:48	0.©	
opposition	1022 Nov 24 j 22:35	8° Ⅱ 26'23 -(evening set	1028 Jun 02 j 10:58	1° © 55'20	
min. Earth dist.	1022 Nov 25 j 04:58	8° Ⅱ 25'42 1	10.13932 AU	agniunction	1020 Jun 10:06:14	200255151	0017146
asc. node direct	1023 Jan 11 j 13:53	6°Ⅱ43'51 6°Ⅱ24'52		conjunction minimum elong	1028 Jun 19 j 06:14 1028 Jun 19 j 06:14	2° © 55'51 2° © 55'51	0°17'46 0°17'46
evening set	1023 Feb 07 j 13:49			=			
evening set	1023 Feb 07 j 13.49 1023 May 10 j 21:12	9° П 37'02		max. Earth dist.	1028 Jun 18 j 13:51 1028 Jul 06 j 00:53		19.80677 AU

retrograde	1028 Oct 07 j 09:06	7° © 14'58		evening set	1035 Jul 07 j 04:00	4° Ω 20'07	
opposition	1028 Dec 20 j 15:44	5° © 12'39	0°21'29	evening set	1033 Jul 07 J 04.00	4 062007	
min. Earth dist.	1028 Dec 20 j 15:44 1028 Dec 21 j 06:16		17.77848 AU	conjunction	1035 Jul 23 j 21:28	5° Ω 21'49	0°36'27
direct	1029 Mar 05 j 15:12	3°909'05	17.77040710	minimum elong	1035 Jul 23 j 21:28	5° Ω 21'49	0°36'27
evening set	1029 Jun 07 j 11:45	6°\$28'44		max. Earth dist.	1035 Jul 22 j 20:08		19.46309 AU
max. Earth dist.	1029 Jun 23 j 11:33		19.75049 AU	morning rise	1035 Aug 09 j 12:21	6°Ω23'10	17.10307 110
max. Darm dist.	1029 Juli 25 j 11.55	7 - 2033	19.75019710	retrograde	1035 Nov 09 j 18:38	9° Ω 44'19	
conjunction	1029 Jun 24 j 06:52	7° © 29'28	0°20'53	opposition	1036 Jan 22 j 07:34	7° Ω 41'41	0°41'41
minimum elong	1029 Jun 24 j 06:52	7° © 29'28	0°20'53	min. Earth dist.	1036 Jan 23 j 05:33		17.44593 AU
morning rise	1029 Jul 11 j 01:20	8°930'09	0 2000	direct	1036 Apr 06 j 21:55	5°Ω35'52	17.1.1035110
retrograde	1029 Oct 12 j 06:02	11° © 49'16		evening set	1036 Jul 11 j 08:08	9° Ω 02'45	
opposition	1029 Dec 25 j 09:14	9°5946'54	0°24'55	max. Earth dist.	1036 Jul 26 j 23:14		19.42938 AU
min. Earth dist.	1029 Dec 26 j 01:39		17.72300 AU	man. Barm dist.	1050 tui 20 j 25.11.	10 000001	15.1.2550110
direct	1030 Mar 10 j 10:11	7° © 42'59	17.72300110	conjunction	1036 Jul 28 j 00:58	10° Ω 04'31	0°38'19
evening set	1030 Jun 12 j 13:03	11°503'50		minimum elong	1036 Jul 28 j 00:58	10°Ω04'31	0°38'18
				morning rise	1036 Aug 13 j 15:03	11°Ω05'53	
conjunction	1030 Jun 29 j 08:17	12° © 04'47	0°23'54	retrograde	1036 Nov 13 j 18:30	14° Ω 27'15	
minimum elong	1030 Jun 29 j 08:17	12°504'47	0°23'55	opposition	1037 Jan 26 j 05:22	12° Ω 24'37	0°43'37
max. Earth dist.	1030 Jun 28 j 12:24		19.69573 AU	min. Earth dist.	1037 Jan 27 j 02:31		17.41496 AU
morning rise	1030 Jul 16 j 02:16	13°905'37	19.09075110	direct	1037 Apr 12 j 00:23	10°Ω18'38	17.11.50110
retrograde	1030 Oct 17 j 04:03	16°\$25'09		evening set	1037 Jul 16 j 12:22	13° Ω 46'16	
opposition	1030 Dec 30 j 03:21	14°9522'45	0°28'12	max. Earth dist.	1037 Aug 01 j 03:07		19.40116 AU
min. Earth dist.	1030 Dec 30 j 20:26		17.66913 AU	max. Earth dist.	1057 Hag 01 j 05.07	11.0011.00	19.10110110
direct	1030 Dec 30 j 20:20 1031 Mar 15 j 06:43	12°5018'30	17.00713710	conjunction	1037 Aug 02 j 04:31	14° Ω 48'05	0°39'56
evening set	1031 Jun 17 j 15:06	15°9540'28		minimum elong	1037 Aug 02 j 04:31	14°Ω48'05	0°39'56
max. Earth dist.	1031 Jul 03 j 11:45		19.64288 AU	minimum clong	1037 Aug 02 j 04:31 1037 Aug 05 j 09:04	15° Ω	0 37 30
max. Earth dist.	1031 Jul 03 J 11.43	10 30 15	19.04200 AU	morning rise	1037 Aug 03 j 09.04 1037 Aug 18 j 17:32	15° Ω 49'28	
	1021 1-1 04:10-04	1.00541127	0026147	-			
conjunction	1031 Jul 04 j 10:04	16°541'37	0°26'47	retrograde	1037 Nov 18 j 16:27	19° Ω 11'01	0°45'17
minimum elong	1031 Jul 04 j 10:04	16°541'37	0°26'46	opposition	1038 Jan 31 j 03:54	17° Ω 08'27	
morning rise	1031 Jul 21 j 03:43	17°542'37		min. Earth dist.	1038 Feb 01 j 02:00		17.38975 AU
retrograde	1031 Oct 22 j 01:27	21°502'33	0021110	direct	1038 Apr 17 j 00:10	15° Ω 02'20	
opposition	1032 Jan 03 j 22:14	19°500'05	0°31'19	evening set	1038 Jul 21 j 16:51	18° Ω 30'39	10.25000 177
min. Earth dist.	1032 Jan 04 j 17:14	18°958'01	17.61755 AU	max. Earth dist.	1038 Aug 06 j 06:18	19° 8 (28'27	19.37898 AU
direct	1032 Mar 19 j 02:49	16°955'28			1020 1 07:00 00	100 00000	004444
evening set	1032 Jun 21 j 17:42	20° © 18'33		conjunction	1038 Aug 07 j 08:08	19° Ω 32'29	0°41'17
				minimum elong	1038 Aug 07 j 08:08	19° Ω 32'29	0°41'16
conjunction	1032 Jul 08 j 12:33	21° © 19'53	0°29'30	morning rise	1038 Aug 23 j 20:19	20° Ω 33'52	
minimum elong	1032 Jul 08 j 12:33	21° © 19'53	0°29'30	retrograde	1038 Nov 23 j 17:07	23° Ω 55'34	
many Earth dist		_					
max. Earth dist.	1032 Jul 07 j 13:45		19.59257 AU	opposition	1039 Feb 05 j 02:40	21° Ω 53′06	0°46'38
morning rise	1032 Jul 25 j 05:35	22°520'59	19.59257 AU	min. Earth dist.	1039 Feb 05 j 23:48	21° Ω 50'47	0°46'38 17.37050 AU
morning rise retrograde	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23	22°\$20'59 25°\$41'16		min. Earth dist. direct	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18	21° Ω 50'47 19° Ω 46'54	
morning rise retrograde opposition	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33	22°520'59	0°34'15	min. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21	21° Ω 50'47 19° Ω 46'54 23° Ω 15'49	17.37050 AU
morning rise retrograde	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47	22°\$20'59 25°\$41'16	0°34'15	min. Earth dist. direct	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18	21° Ω 50'47 19° Ω 46'54 23° Ω 15'49	
morning rise retrograde opposition	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48	0°34'15	min. Earth dist. direct evening set max. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21	21° \$\mathcal{Q} 50'47 19° \$\mathcal{Q} 46'54 23° \$\mathcal{Q} 15'49 24° \$\mathcal{Q} 13'47	17.37050 AU 19.36255 AU
morning rise retrograde opposition min. Earth dist.	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40	0°34'15	min. Earth dist. direct evening set max. Earth dist. conjunction	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57	21° Ω 50'47 19° Ω 46'54 23° Ω 15'49	17.37050 AU 19.36255 AU
morning rise retrograde opposition min. Earth dist. direct	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48	0°34'15	min. Earth dist. direct evening set max. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07	21° \$\mathcal{Q} 50'47 19° \$\mathcal{Q} 46'54 23° \$\mathcal{Q} 15'49 24° \$\mathcal{Q} 13'47	17.37050 AU 19.36255 AU
morning rise retrograde opposition min. Earth dist. direct	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48	0°34'15 17.56869 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57	21° Ω 50'47 19° Ω 46'54 23° Ω 15'49 24° Ω 13'47 24° Ω 17'40	17.37050 AU 19.36255 AU 0°42'21
morning rise retrograde opposition min. Earth dist. direct evening set	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jun 26 j 20:53	22°©20'59 25°©41'16 23°©38'45 23°©36'40 21°©33'48 24°©57'56	0°34'15 17.56869 AU 0°32'01	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57	21°\Omega 50'47 19°\Omega 46'54 23°\Omega 15'49 24°\Omega 17'40 24°\Omega 17'40	17.37050 AU 19.36255 AU 0°42'21
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morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jun 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$59'24	0°34'15 17.56869 AU 0°32'01 0°32'01	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24	21°\Omega 50'47 19°\Omega 46'54 23°\Omega 15'49 24°\Omega 17'40 24°\Omega 17'40 25°\Omega 19'01 28°\Omega 40'48 26°\Omega 38'28	17.37050 AU 19.36255 AU 0°42'21 0°42'21
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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	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jun 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 12 j 13:45 1034 Jul 02 j 00:09 1034 Jul 07 j 21:54	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega\$21'14 30°\$\S\$28°\$18'40 28°\$16'22 26°\$13'23 29°\$38'30 0°\$\Omega\$	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21	21° \$\lambda 50'47 19° \$\lambda 46'54 23° \$\lambda 15'49 24° \$\lambda 17'40 24° \$\lambda 17'40 25° \$\lambda 19'01 28° \$\lambda 40'48 26° \$\lambda 36'04 24° \$\lambda 32'14 28° \$\lambda 03'28 29° \$\lambda 03'28 29° \$\lambda 03'28 29° \$\lambda 03'40 3° \$\lambda 04'46 3° \$\lambda 26'37 1° \$\lambda 24'24	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU
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	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jun 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 13 j 10:39 1034 Mar 28 j 22:40 1034 Jul 02 j 00:09 1034 Jul 07 j 21:54 1034 Jul 18 j 18:10 1034 Jul 18 j 18:10	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega\$21'14 30°\$\S\$28°\$18'40 28°\$16'22 26°\$13'23 29°\$38'30 0°\$\Omega\$40'05 0°\$\Omega\$40'05	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21 1041 Feb 14 j 02:07 1041 Feb 14 j 23:09	21° \$\alpha 50'47 19° \$\alpha 46'54 23° \$\alpha 15'49 24° \$\alpha 17'40 24° \$\alpha 17'40 25° \$\alpha 19'01 28° \$\alpha 40'48 26° \$\alpha 36'04 24° \$\alpha 32'14 28° \$\alpha 01'40 29° \$\alpha 03'28 10° \$\mathref{m} 04'46 30° \$\mathref{m} 26'37 10° \$\mathref{m} 22'07	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU
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.	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jun 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 12 j 13:45 1034 Jan 13 j 10:39 1034 Mar 28 j 22:40 1034 Jul 07 j 21:54 1034 Jul 18 j 18:10 1034 Jul 18 j 18:10 1034 Jul 17 j 17:30	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega\$21'14 30°\$\S\$28°\$18'40 28°\$16'22 26°\$13'23 29°\$38'30 0°\$\Omega\$40'05 0°\$\Omega\$40'05 0°\$\Omega\$6'17	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21 1041 Feb 14 j 02:07 1041 Feb 14 j 23:09 1041 Mar 21 j 11:20	21° \$\alpha 50'47 19° \$\alpha 46'54 23° \$\alpha 15'49 24° \$\alpha 17'40 24° \$\alpha 17'40 25° \$\alpha 19'01 28° \$\alpha 40'48 26° \$\alpha 38'28 26° \$\alpha 36'04 24° \$\alpha 32'14 28° \$\alpha 01'40 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 20° \$\alpha 03'44 3° \$\mathref{m} 26'37 1° \$\mathref{m} 24'24 1° \$\mathref{m} 22'07 30° \$\alpha \alpha \alpha \alpha \alpha \alpha \alpha 13'40	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU
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	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jun 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 12 j 13:45 1034 Jul 02 j 00:09 1034 Jul 07 j 21:54 1034 Jul 18 j 18:10 1034 Jul 18 j 18:10 1034 Jul 17 j 17:30 1034 Aug 04 j 09:54	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega\$21'14 30°\$\S\$28°\$18'40 28°\$16'22 26°\$13'23 29°\$38'30 0°\$\Omega\$40'05 0°\$\Omega\$40'05 0°\$\Omega\$41'123	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21 1041 Feb 14 j 02:07 1041 Feb 14 j 23:09 1041 May 01 j 07:12	21° \$\alpha 50'47 19° \$\alpha 46'54 23° \$\alpha 15'49 24° \$\alpha 17'40 24° \$\alpha 17'40 25° \$\alpha 19'01 28° \$\alpha 40'48 26° \$\alpha 36'04 24° \$\alpha 32'14 28° \$\alpha 01'40 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'44 3° \$\mathref{m} 26'37 1° \$\mathref{m} 22'07 30° \$\alpha \alpha 22'07 30° \$\alpha \alpha 22'07 30° \$\alpha \alpha 22'07	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU
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	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jul 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 13 j 10:39 1034 Mar 28 j 22:40 1034 Jul 02 j 00:09 1034 Jul 07 j 21:54 1034 Jul 18 j 18:10 1034 Jul 18 j 18:10 1034 Jul 17 j 17:30 1034 Aug 04 j 09:54 1034 Nov 04 j 21:09	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega\$21'14 30°\$\Sigma\$28°\$\Sigma\$18'40 28°\$\Sigma\$16'22 26°\$\Sigma\$3'23 29°\$\Sigma\$8'30 0°\$\Omega\$40'05 0°\$\Omega\$40'05 0°\$\Omega\$40'05 0°\$\Omega\$41'23 5°\$\Omega\$02'17	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU 0°34'21 0°34'21 19.50202 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21 1041 Feb 14 j 02:07 1041 Feb 14 j 23:09 1041 Mar 21 j 11:20 1041 May 01 j 07:12 1041 Jun 10 j 08:09	21° \$\alpha 50'47 19° \$\alpha 46'54 23° \$\alpha 15'49 24° \$\alpha 17'40 24° \$\alpha 17'40 25° \$\alpha 19'01 28° \$\alpha 40'48 26° \$\alpha 38'28 26° \$\alpha 36'04 24° \$\alpha 32'14 28° \$\alpha 01'40 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 21° \$\alpha 03'28 22° \$\alpha 03'28 22° \$\alpha 03'28 22° \$\alpha 03'28 22° \$\alpha 03'28 23° \$\alpha	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU
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	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jul 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 13 j 10:39 1034 Mar 28 j 22:40 1034 Jul 02 j 00:09 1034 Jul 07 j 21:54 1034 Jul 18 j 18:10 1034 Jul 18 j 18:10 1034 Jul 17 j 17:30 1034 Aug 04 j 09:54 1034 Nov 04 j 21:09 1035 Jan 17 j 10:21	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega_21'14 30°\$\Sigma_28^\$\$16'22 26°\$13'23 29°\$38'30 0°\$\Omega_40'05	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU 0°34'21 0°34'21 19.50202 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21 1041 Feb 14 j 02:07 1041 Feb 14 j 23:09 1041 May 01 j 07:12	21° \$\alpha 50'47 19° \$\alpha 46'54 23° \$\alpha 15'49 24° \$\alpha 17'40 24° \$\alpha 17'40 25° \$\alpha 19'01 28° \$\alpha 40'48 26° \$\alpha 36'04 24° \$\alpha 32'14 28° \$\alpha 01'40 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'44 3° \$\mathref{m} 26'37 1° \$\mathref{m} 22'07 30° \$\alpha \alpha 22'07 30° \$\alpha \alpha 22'07 30° \$\alpha \alpha 22'07	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU
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	1032 Jul 25 j 05:35 1032 Oct 26 j 00:23 1033 Jan 07 j 17:33 1033 Jan 08 j 12:47 1033 Mar 24 j 01:32 1033 Jul 26 j 20:53 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 13 j 15:17 1033 Jul 12 j 14:53 1033 Jul 30 j 07:42 1033 Oct 03 j 02:28 1033 Oct 03 j 02:28 1033 Oct 30 j 21:47 1033 Nov 27 j 23:24 1034 Jan 12 j 13:45 1034 Jan 13 j 10:39 1034 Mar 28 j 22:40 1034 Jul 02 j 00:09 1034 Jul 07 j 21:54 1034 Jul 18 j 18:10 1034 Jul 18 j 18:10 1034 Jul 17 j 17:30 1034 Aug 04 j 09:54 1034 Nov 04 j 21:09	22°\$20'59 25°\$41'16 23°\$38'45 23°\$36'40 21°\$33'48 24°\$57'56 25°\$59'24 25°\$59'24 25°\$55'39 27°\$00'37 0°\$\Omega_21'14 30°\$\Sigma_28^\$\$16'22 26°\$13'23 29°\$38'30 0°\$\Omega_40'05	0°34'15 17.56869 AU 0°32'01 0°32'01 19.54532 AU 0°36'58 17.52341 AU 0°34'21 0°34'21 19.50202 AU	min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1039 Feb 05 j 23:48 1039 Apr 22 j 03:18 1039 Jul 26 j 21:21 1039 Aug 11 j 11:07 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 12 j 11:57 1039 Aug 28 j 22:58 1039 Nov 28 j 16:24 1040 Feb 10 j 02:13 1040 Feb 11 j 00:09 1040 Apr 26 j 04:13 1040 Jul 31 j 02:06 1040 Aug 16 j 15:35 1040 Aug 16 j 15:35 1040 Aug 15 j 14:05 1040 Aug 31 j 18:33 1040 Sep 02 j 01:40 1040 Dec 02 j 17:21 1041 Feb 14 j 02:07 1041 Feb 14 j 23:09 1041 Mar 21 j 11:20 1041 May 01 j 07:12 1041 Jun 10 j 08:09	21° \$\alpha 50'47 19° \$\alpha 46'54 23° \$\alpha 15'49 24° \$\alpha 17'40 24° \$\alpha 17'40 25° \$\alpha 19'01 28° \$\alpha 40'48 26° \$\alpha 38'28 26° \$\alpha 36'04 24° \$\alpha 32'14 28° \$\alpha 01'40 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 29° \$\alpha 03'28 21° \$\alpha 03'28 22° \$\alpha 03'28 22° \$\alpha 03'28 22° \$\alpha 03'28 22° \$\alpha 03'28 23° \$\alpha	17.37050 AU 19.36255 AU 0°42'21 0°42'21 0°47'41 17.35683 AU 0°43'08 0°43'09 19.35161 AU

minimum elong	1041 Aug 21 j 19:16	3° m 49'43	0°43'37	opposition	1048 Mar 19 j 09:26	4° Ω 42'41	0°44'04
max. Earth dist.	1041 Aug 20 j 19:13	~	19.34573 AU	min. Earth dist.	1048 Mar 20 j 02:03	. — . –	17.41955 AU
morning rise	1041 Sep 07 j 04:04	4° m 50'56		direct	1048 Jun 04 j 07:39	2° £ 36'53	
retrograde	1041 Dec 07 j 17:42	8° m) 12'47		evening set	1048 Sep 08 j 04:10	6° Ω 05'46	
opposition	1042 Feb 19 i 02:37	6° m 10'42	0°48'47	8			
min. Earth dist.	1042 Feb 20 j 00:03		17.34506 AU	conjunction	1048 Sep 24 j 08:55	7° ჲ 06'23	0°38'43
direct	1042 May 06 j 09:08	4° m 04'29		minimum elong	1048 Sep 24 j 08:55	7° Ω 06'23	0°38'43
evening set	1042 Aug 10 j 11:00	7° m 34'32		max. Earth dist.	1048 Sep 23 j 14:42		19.43318 AU
C	e j	Î		morning rise	1048 Oct 10 j 09:53	8° ഫ 06'28	
conjunction	1042 Aug 26 j 22:28	8° m 36'11	0°43'49	retrograde	1049 Jan 09 j 10:37	11° ≏ 26'40	
minimum elong	1042 Aug 26 j 22:28	8° m 36'11	0°43'49	opposition	1049 Mar 24 j 10:40	9° Ω 25'05	0°42'11
max. Earth dist.	1042 Aug 25 j 21:44	8° m 32'18	19.34467 AU	min. Earth dist.	1049 Mar 25 j 02:27	9° ≏ 23'24	17.44867 AU
morning rise	1042 Sep 12 j 06:18	9° m 37'19		direct	1049 Jun 09 j 10:04	7° ≙ 19'26	
retrograde	1042 Dec 12 j 18:07	12° m 59'06		evening set	1049 Sep 13 j 04:34	10° Ω 47'44	
opposition	1043 Feb 24 i 03:21	10° m 57'06	0°48'50	<u>8</u>			
min. Earth dist.	1043 Feb 24 j 23:59		17.34631 AU	conjunction	1049 Sep 29 j 08:13	11° ≏ 48'07	0°36'54
direct	1043 May 11 j 12:03	8° m 50'55		minimum elong	1049 Sep 29 j 08:13	11° ≏ 48'07	0°36'53
evening set	1043 Aug 15 j 15:08	12° m) 21'05		max. Earth dist.	1049 Sep 28 j 16:06		19.46501 AU
max. Earth dist.	1043 Aug 31 j 02:37		19.34811 AU	morning rise	1049 Oct 15 j 08:07	12° £ 47'59	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		.,,		retrograde	1050 Jan 14 j 08:57	16° Ω 07'46	
conjunction	1043 Sep 01 j 01:41	13° m 22'38	0°43'42	opposition	1050 Mar 29 j 11:35	14° Ω 06'16	0°40'01
minimum elong	1043 Sep 01 j 01:41	13° m/22'38	0°43'42	min. Earth dist.	1050 Mar 30 j 00:57		17.48308 AU
morning rise	1043 Sep 17 j 08:13	14° m 23'37	0 .5 .2	direct	1050 Jun 14 j 14:15	12° ⊆ 00'50	17.10500110
retrograde	1043 Dec 17 j 18:23	17° Mp 45'16		evening set	1050 Sep 18 j 04:07	15° ≏ 28'27	
opposition	1044 Feb 29 j 04:21	15° m 43'23	0°48'33	5 · • · · · · · · · · · · · · · · · · ·			
min. Earth dist.	1044 Mar 01 j 00:52		17.35188 AU	conjunction	1050 Oct 04 j 06:39	16° ≏ 28'36	0°34'51
direct	1044 May 15 j 15:33	13° m 37'14	17.50100110	minimum elong	1050 Oct 04 j 06:39	16° £ 28'36	
evening set	1044 Aug 19 j 19:05	17° m 07'24		max. Earth dist.	1050 Oct 03 j 16:21	16° ≏ 26'22	
max. Earth dist.	1044 Sep 04 j 04:51		19.35594 AU	morning rise	1050 Oct 20 j 05:32	17° £ 28'13	19.0021.110
man. Darvir alov.	10.1.5 c p 0.1501	10 19 00 07	17.5007 . 110	retrograde	1051 Jan 19 j 04:57	20° £ 47'35	
conjunction	1044 Sep 05 j 04:21	18° m 08'48	0°43'17	opposition	1051 Apr 03 j 12:25	18° Ω 46'13	0°37'36
minimum elong	1044 Sep 05 j 04:21	18° Mp 08'48	0°43'17	min. Earth dist.	1051 Apr 04 j 00:53		17.52290 AU
morning rise	1044 Sep 21 j 09:50	19° m 09'39	0 13 17	direct	1051 Jun 19 j 15:20	16° Ω 41'03	17.02230110
retrograde	1044 Dec 21 j 17:25	22° mp 31'07		evening set	1051 Sep 23 j 02:55	20° £ 07'56	
opposition	1045 Mar 05 j 05:37	20° m 29'18	0°47'55	evening sec	1031 Бер 23 ј 02.33	20 -07 30	
min. Earth dist.	1045 Mar 06 j 01:23	20° m 27'09	17.36197 AU	conjunction	1051 Oct 09 j 04:19	21° ≏ 07'48	0°32'35
direct	1045 May 20 j 18:50	18° m 23'12	17.50157 110	minimum elong	1051 Oct 09 j 04:19	21° ⊆ 07'48	0°32'34
evening set	1045 Aug 24 j 22:11	21° m 53'14		max. Earth dist.	1051 Oct 08 j 15:51		19.54463 AU
max. Earth dist.	1045 Sep 09 j 08:58		19.36827 AU	morning rise	1051 Oct 05 j 13:51 1051 Oct 25 j 02:16	22° ⊆ 07'11	17.54405 710
max. Earth dist.	то 12 вер оз ј ос.20	22 1931 00	19.50027 110	retrograde	1052 Jan 24 j 02:50	25° Ω 26'06	
conjunction	1045 Sep 10 j 06:28	22° m 54'29	0°42'34	opposition	1052 Apr 07 j 12:49	23° Ω 24'54	0°34'57
minimum elong	1045 Sep 10 j 06:28	22° m 54'29	0°42'35	min. Earth dist.	1052 Apr 07 j 22:32		17.56770 AU
morning rise	1045 Sep 26 j 10:42	23° m 55'09	0 42 33	direct	1052 Jun 23 j 18:11	21° ⊆ 20'04	17.50770710
retrograde	1045 Dec 26 j 17:08	27° m 16'23		evening set	1052 Sep 27 j 00:52	24° Ω 46'08	
opposition	1046 Mar 10 j 06:58	25° m/ 14'37	0°46'57	evening set	1032 Sep 27 J 00.32	24 -40 00	
min. Earth dist.	1046 Mar 11 j 01:51	-	17.37643 AU	conjunction	1052 Oct 13 j 01:14	25° £ 45'45	0°30'07
direct	1046 May 25 j 23:30	23° m 08'37	17.57045710	minimum elong	1052 Oct 13 j 01:14	25° Ω 45'45	0°30'07
evening set	1046 Aug 30 j 00:57	26° m 38'22		max. Earth dist.	1052 Oct 13 j 01:14 1052 Oct 12 j 15:05		19.59184 AU
max. Earth dist.	1046 Sep 14 j 10:40		19.38509 AU	morning rise	1052 Oct 28 j 22:11	26° Ω 44'53	17.57101110
max. Earth dist.	10 10 Бер 11 ј 10.10	27 143003	17.50507 110	morning rise	1053 Jan 17 j 00:21	0°M	
conjunction	1046 Sep 15 j 07:58	27° m 39'26	0°41'34	retrograde	1053 Jan 27 j 22:19	0°M03'20	
minimum elong	1046 Sep 15 j 07:58	27° m/39'26	0°41'33	retrograde	1053 Feb 08 j 01:02	30°R <u>Ω</u>	
morning rise	1046 Oct 01 j 11:11	28° m 39'55	0 41 33	opposition	1053 Apr 12 j 13:12	28° ഫ 02'20	0°32'06
morning 1130	1046 Oct 24 j 10:46	0° ರ		min. Earth dist.	1053 Apr 12 j 22:06		17.61711 AU
retrograde	1046 Dec 31 j 14:52	° - 2° - 00'51		direct	1053 Jun 28 j 17:36	25° ⊆ 57'51	17.01711710
opposition	1047 Mar 15 j 08:10	29° m 59'09	0°45'40	evening set	1053 Oct 01 j 21:51	29° ⊆ 23'03	
оррозиюн	1047 Mar 15 j 00:10	30°R ™	0 43 40	evening set	1053 Oct 01 j 21:31 1053 Oct 11 j 21:40	0° ™	
min. Earth dist.	1047 Mar 15 j 00:12 1047 Mar 16 j 02:24		17.39564 AU		1000 Oct 11 j 21.70	V IIV	
direct	1047 May 31 j 02:41	27° m 53'13	11.57507 AU	conjunction	1053 Oct 17 j 21:08	0°M22'22	0°27'28
ancei	1047 May 31 j 02.41 1047 Aug 11 j 07:59	0° ت		minimum elong	1053 Oct 17 j 21:08 1053 Oct 17 j 21:08	0°M22'22	0°27'28
evening set	1047 Aug 11 j 07:39 1047 Sep 04 j 02:56	1° £ 22'36		max. Earth dist.	1053 Oct 17 j 21:08 1053 Oct 17 j 12:29		19.64334 AU
evening set	107/ Sep 04 J 02.30	1 == 22 30		morning rise	1053 Nov 02 j 17:21	1°M21'15	17.0 1 334 AU
conjunction	1047 Sep 20 j 08:55	2° ჲ 23'27	0°40'16	retrograde	1053 Nov 02 j 17:21 1054 Feb 01 j 20:08	4°M39'14	
minimum elong	1047 Sep 20 j 08:55 1047 Sep 20 j 08:56	2° £ 23'27	0°40'16 0°40'17	opposition	1054 Apr 17 j 13:03	2°M38'26	0°29'02
max. Earth dist.	1047 Sep 20 j 08:36 1047 Sep 19 j 13:38		19.40672 AU	min. Earth dist.	1054 Apr 17 j 15:05 1054 Apr 17 j 19:10		17.67028 AU
		3° £ 20′25	17.400/4 AU	direct		0°M34'20	17.07020 AU
morning rise retrograde	1047 Oct 06 j 10:58 1048 Jan 05 j 13:49	3° ± 23′45 6° £ 44'19		evening set	1054 Jul 03 j 19:07 1054 Oct 06 j 18:04	3°M58'35	
renograue	1070 Jan 03 J 13.49	0 ==44 19		evening set	1007 Oct 00 J 10.04	ود ودماا د	

conjunction	1054 Oct 22 j 16:27	4°M57'38	0°24'39	min. Earth dist.	1060 May 14 j 23:54	29° m. 42'11	18.02978 AU
minimum elong	1054 Oct 22 j 16:27	4°M57'38	0°24'39	direct	1060 Jul 31 j 11:04	27°M39'58	10.029,0110
max. Earth dist.	1054 Oct 22 j 10:18		19.69811 AU		1060 Oct 16 j 08:35	0° ⊼ ¹	
morning rise	1054 Nov 07 j 11:44	5°M56'15		evening set	1060 Nov 02 j 00:42	0° ∡ 757'25	
retrograde	1055 Feb 06 j 14:29	9° M 13'43		C	,		
opposition	1055 Apr 22 j 12:35	7° M 13'08	0°25'49	conjunction	1060 Nov 17 j 18:12	1° ∡ 754'41	0°05'36
min. Earth dist.	1055 Apr 22 j 18:07	7°M12'33	17.72645 AU	minimum elong	1060 Nov 17 j 18:13	1° ₹ 54'41	0°05'37
direct	1055 Jul 08 j 17:26	5°M09'26		behind sun begin	1060 Nov 17 j 11:54	1° ₹ 53'45	
evening set	1055 Oct 11 j 13:35	8°M32'41		behind sun end	1060 Nov 18 j 00:31	1° ∡ ¹55'37	
				max. Earth dist.	1060 Nov 17 j 22:36	1° ∡ ¹55'19	20.06105 AU
conjunction	1055 Oct 27 j 10:52	9°M31'26	0°21'42	morning rise	1060 Dec 03 j 09:59	2° ₹ 51'44	
minimum elong	1055 Oct 27 j 10:52	9°M31'26	0°21'43	retrograde	1061 Mar 04 j 23:52	6° ∡ 05'47	
max. Earth dist.	1055 Oct 27 j 05:44	9°M30'38	19.75559 AU	opposition	1061 May 19 j 23:43	4° ∡ 05'54	0°04'19
morning rise	1055 Nov 12 j 05:32	10°M29'47		min. Earth dist.	1061 May 19 j 19:09	4° ∡ 06'23	18.09202 AU
retrograde	1056 Feb 11 j 11:41	13°M46'44		direct	1061 Aug 05 j 07:13	2° ≯ 04'22	
opposition	1056 Apr 26 j 11:44	11° M 46'19	0°22'27	evening set	1061 Nov 06 j 14:26	5° х 20′33	
min. Earth dist.	1056 Apr 26 j 14:35	11° M 46'01	17.78493 AU				
direct	1056 Jul 12 j 18:01	9° M 43'01		conjunction	1061 Nov 22 j 07:13	6° х 17′31	0°02'16
evening set	1056 Oct 15 j 07:57	13°M05'12		minimum elong	1061 Nov 22 j 07:12	6° ҂ 17'31	0°02'15
				behind sun begin	1061 Nov 22 j 00:39	6° х 16′33	
conjunction	1056 Oct 31 j 04:27	14°M03'39	0°18'38	behind sun end	1061 Nov 22 j 13:45	6° ≯ 18'29	
minimum elong	1056 Oct 31 j 04:27	14°M03'39	0°18'37	max. Earth dist.	1061 Nov 22 j 12:23	6° ≯ 18'16	20.12352 AU
max. Earth dist.	1056 Oct 31 j 01:59	14° ™ 03'16	19.81491 AU	morning rise	1061 Dec 07 j 22:51	7° ∡ 14'19	
morning rise	1056 Nov 15 j 22:15	15°M01'44		retrograde	1062 Mar 09 j 15:23	10° ∡ 127′46	
	1056 Nov 15 j 10:46	15°M		opposition	1062 May 24 j 19:17	8° ∡ 127'56	0°00'36
retrograde	1057 Feb 15 j 04:54	18°M18'08		min. Earth dist.	1062 May 24 j 12:29	8° ≯ 28'38	18.15477 AU
opposition	1057 May 01 j 10:37	16° ™ 17'54	0°18'58	desc. node	1062 Jul 24 j 04:02	6° х 33′52	
min. Earth dist.	1057 May 01 j 12:45		17.84499 AU	direct	1062 Aug 10 j 02:29	6° ≯ 26'42	
	1057 Jun 04 j 05:25	15°RM		evening set	1062 Nov 11 j 03:11	9° ∡ 41'39	
direct	1057 Jul 17 j 15:51	14°M14'59					
	1057 Aug 28 j 19:54	15° ™		conjunction	1062 Nov 26 j 19:34	10° ≯ 38'20	
evening set	1057 Oct 20 j 01:38	17° M 36'02		minimum elong	1062 Nov 26 j 19:34	10° ∡ 38′20	0°01'10
				behind sun begin	1062 Nov 26 j 13:02	10° ₹ 37'22	
conjunction	1057 Nov 04 j 21:09	18°M34'11	0°15'28	behind sun end	1062 Nov 27 j 02:07	10° ∡ 39'18	
minimum elong	1057 Nov 04 j 21:09	18°M34'11	0°15'28	max. Earth dist.	1062 Nov 27 j 03:44		20.18645 AU
behind sun begin	1057 Nov 04 j 19:06	18°M33'53		morning rise	1062 Dec 12 j 10:46	11° ₹ 34'53	
behind sun end	1057 Nov 04 j 23:11	18°M34'30		retrograde	1063 Mar 14 j 04:53	14° √ 47'44	
max. Earth dist.	1057 Nov 04 j 19:25	18°M33'56	19.87563 AU	opposition	1063 May 29 j 14:06	12° ₹ 47'58	
morning rise	1057 Nov 20 j 14:30	19°M32'01		min. Earth dist.	1063 May 29 j 05:46		18.21795 AU
retrograde	1058 Feb 20 j 00:24	22°M47'51	001.5122	direct	1063 Aug 14 j 20:59	10° 🗷 47'04	
opposition	1058 May 06 j 08:40	20°M47'44	0°15'23	evening set	1063 Nov 15 j 15:15	14° ∡ ¹00'47	
min. Earth dist.	1058 May 06 j 08:21		17.90617 AU		10(2 D 01:0(50	1.40 7.5711.0	000 4120
direct	1058 Jul 22 j 15:40	18°M45'11		conjunction	1063 Dec 01 j 06:59 1063 Dec 01 j 06:59	14° 🗷 57'12	
evening set	1058 Oct 24 j 18:15	22°M05'05		minimum elong	,	14° 🗷 57'12	0 04 30
agnismation	1059 Nov. 00 : 12:00	229M 02156	0012112	behind sun begin behind sun end	1063 Dec 01 j 00:34	14° ₹ 56'15 14° ₹ 58'08	
conjunction minimum elong	1058 Nov 09 j 13:09 1058 Nov 09 j 13:09	23°M02'56 23°M02'56	0°12'13 0°12'13	max. Earth dist.	1063 Dec 01 j 13:24 1063 Dec 01 j 15:59		20.24999 AU
behind sun begin	1058 Nov 09 j 08:41	23°M02'16	0 12 13	morning rise	1063 Dec 16 j 22:08	15° 🖈 53'31	20.24999 AU
behind sun end	1058 Nov 09 j 17:37	23°M02'10		retrograde	1064 Mar 17 j 18:56	19° ₹ 05'48	
max. Earth dist.	1058 Nov 09 j 14:04		19.93708 AU	opposition	1064 Jun 02 j 08:21	17° ₹ 06'07	-0°06'43
morning rise	1058 Nov 25 j 05:48	24°M00'30	17.75700 AC	min. Earth dist.	1064 Jun 01 j 21:54		18.28189 AU
retrograde	1059 Feb 24 j 16:03	27°M15'45		direct	1064 Aug 18 j 13:29	17 ₹ 07 11	10.2010) AU
opposition	1059 May 11 j 06:22	25°M15'45	0°11'44	evening set	1064 Nov 19 j 02:11	18° ≯ 18'05	
min. Earth dist.	1059 May 11 j 05:15		17.96778 AU	evening sec	10011101 19 1 02:11	10 % 10 03	
direct	1059 Jul 27 j 12:56	23°M13'34	17.50770110	conjunction	1064 Dec 04 j 17:42	19° ∡ 14'14	-0°07'44
evening set	1059 Oct 29 j 10:02	26°M32'15		minimum elong	1064 Dec 04 j 17:42	19° х 14'14	
	J 10.02			behind sun begin	1064 Dec 04 j 11:46	19° ₹ 13'22	
conjunction	1059 Nov 14 j 04:02	27°M29'48	0°08'55	behind sun end	1064 Dec 04 j 23:38	19° х 15'06	
minimum elong	1059 Nov 14 j 04:02	27°M29'48	0°08'55	max. Earth dist.	1064 Dec 05 j 05:41		20.31410 AU
behind sun begin	1059 Nov 13 j 22:22	27°M28'57		morning rise	1064 Dec 20 j 08:33	20° ₹ 10′20	
behind sun end	1059 Nov 14 j 09:41	27°M30'39		retrograde	1065 Mar 22 j 08:07	23° × 22'05	
max. Earth dist.	1059 Nov 14 j 05:34		19.99893 AU	opposition	1065 Jun 07 j 01:53	21°×22'31	-0°10'17
morning rise	1059 Nov 29 j 20:22	28°M27'06		min. Earth dist.	1065 Jun 06 j 13:42		18.34607 AU
0	1059 Dec 27 j 18:05	0° √		direct	1065 Aug 23 j 06:15	19° 🖈 22'20	
retrograde	1060 Feb 29 j 09:35	1° ⋌ ¹41'46		evening set	1065 Nov 23 j 12:39	22° × 33'42	
<u> </u>	1060 May 07 j 18:25	30°RM.		<i>3</i>	J>		
opposition	1060 May 15 j 03:20	29°M41'50	0°08'02	conjunction	1065 Dec 09 j 03:42	23° ∡ ¹29'36	-0°10'54
* *	J J	- •		J	J		

1065 Dec 09 i 03:41

1065 Dec 08 j 22:40

1065 Dec 09 j 08:42

1065 Dec 09 j 16:22

1065 Dec 24 j 18:40

1066 Mar 26 j 21:14

1066 Jun 11 j 18:35

1066 Jun 11 j 04:50

1066 Aug 27 j 20:40

1066 Nov 27 j 22:15

1066 Dec 13 j 13:12

1066 Dec 13 j 13:11

1066 Dec 13 j 09:44

1066 Dec 13 j 16:39

1066 Dec 14 j 04:28

1066 Dec 29 j 04:01

1067 Jan 22 j 18:57

1067 Mar 31 j 09:46

1067 Jun 12 j 13:38

1067 Jun 16 j 10:46

1067 Jun 15 j 19:21

1067 Sep 01 j 11:33

1067 Nov 14 i 05:55

1067 Dec 02 j 07:16

1067 Dec 17 j 21:50

1067 Dec 17 j 21:50

1067 Dec 18 j 13:39

1068 Jan 02 j 12:54

1068 Apr 03 j 22:09

1068 Jun 19 j 09:56

1068 Jun 20 j 02:27

1068 Sep 05 j 00:36

1068 Dec 05 j 15:38

1068 Dec 21 j 06:15

1068 Dec 21 j 06:15

1068 Dec 22 j 00:19

1069 Jan 05 j 21:18

1069 Apr 08 j 10:08

1069 Jun 24 j 17:21

1069 Jun 23 j 23:20

1069 Sep 09 j 13:46

1069 Dec 09 j 23:37

1069 Dec 25 j 14:01

1069 Dec 25 j 14:01

1069 Dec 26 j 08:13

1070 Jan 10 i 05:27

1070 Apr 12 j 21:38

1070 Jun 29 j 07:47

1070 Jun 28 j 13:16

1070 Sep 14 j 01:19

1070 Dec 14 j 06:58

1070 Dec 29 j 21:31

1070 Dec 29 j 21:31

1070 Dec 30 j 17:30

1071 Jan 14 j 13:01

1071 Apr 17 j 09:07

1071 Jul 03 j 21:29

1071 Jul 03 j 01:38

1071 Sep 18 j 13:35

1071 Dec 18 j 14:02

1072 Jan 03 j 04:30

14°る32'35

17°**る**37'49

18°る32'31 -0°27'54

minimum elong

max. Earth dist.

morning rise

1078 Jan 26 j 15:02

1078 Jan 27 j 14:45

1078 Feb 11 j 10:15

1078 Mar 06 j 10:45

12°≈52'02

13°≈46'29

15°**≈**

0°39'27

12°≈55'28 20.95867 AU

0°る

30°R*x*7

0°정

minimum elong behind sun begin

behind sun end

max. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

behind sun begin

behind sun end

max. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

max. Earth dist.

min. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition min. Earth dist.

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition min. Earth dist.

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

direct

min. Earth dist.

direct

direct

direct

direct

min. Earth dist.

direct

min. Earth dist.

1084 Aug 25 j 10:39

min. Earth dist.

8°**¥**51'55 19.05891 AU

conjunction	1091 Mar 19 j 20:10	4° Ƴ 43'50	-0°39'46	min. Earth dist.	1097 Oct 18 j 00:50	1° X 14'37	18.69040 AU
minimum elong	1091 Mar 19 j 20:10	4°Υ43'50	0°39'45	mm. Darm dist.	1097 Nov 19 j 09:19	30°RY	10.00010710
max. Earth dist.	1091 Mar 20 j 14:29		20.94960 AU	direct	1097 Dec 31 j 23:33	29° Y 15'33	
morning rise	1091 Apr 05 j 02:52	5° Υ 39'19	20.74700 AC	uncet	1097 Bec 31 j 25:35 1098 Feb 11 j 15:45	0° 8	
=	1091 Jul 08 j 20:30	8° Υ 47'39		evening set	1098 Apr 01 j 09:27	2° 8 18'36	
retrograde opposition	1091 Jul 08 j 20:30 1091 Sep 24 j 11:26	6°Υ47'35	0942110	evening set	1096 Apr 01 J 09.27	2 018 30	
min. Earth dist.	1091 Sep 24 j 11.26 1091 Sep 23 j 18:55		18.93442 AU	agniumation	1000 Apr. 17: 10:20	3° 8 15'08	0025155
direct	1091 Sep 23 j 18.33 1091 Dec 08 j 10:33	4°Υ50'36	18.93442 AU	conjunction minimum elong	1098 Apr 17 j 19:29 1098 Apr 17 j 19:29	3° 8 15'08	
	1091 Dec 08 j 10.33 1092 Mar 07 j 00:24	7° Υ 49'56		max. Earth dist.		_	20.66454 AU
evening set	1092 Mai 07 J 00.24	/ 14930			1098 Apr 18 j 03:45		20.00434 AU
	100034 00:0446	000045100	0020120	morning rise	1098 May 04 j 08:50	4° 8 12'10	
conjunction	1092 Mar 23 j 04:16	8° Υ 45'03		retrograde	1098 Aug 07 j 02:44	7° 8 23'27	0007110
minimum elong	1092 Mar 23 j 04:16	8° Υ 45'03	0°38'20	opposition	1098 Oct 22 j 18:28	5° 8 22'38	
max. Earth dist.	1092 Mar 23 j 21:06		20.91797 AU	min. Earth dist.	1098 Oct 22 j 12:22		18.63774 AU
morning rise	1092 Apr 08 j 12:04	9° Y 40'43		direct	1099 Jan 05 j 06:43	3° 8 24'10	
retrograde	1092 Jul 12 j 05:07	12° Y 49′23		evening set	1099 Apr 05 j 21:42	6° 8 28'02	
opposition	1092 Sep 27 j 18:42	10° Y 49'11					
min. Earth dist.	1092 Sep 27 j 04:09		18.90129 AU	conjunction	1099 Apr 22 j 08:48	7° 8 24'51	
direct	1092 Dec 11 j 14:47	8° Y 52'01		minimum elong	1099 Apr 22 j 08:48	7° 8 24'51	
evening set	1093 Mar 11 j 08:06	11° Y 51'47		max. Earth dist.	1099 Apr 22 j 15:08	_	20.61015 AU
				morning rise	1099 May 08 j 22:59	8° 8 22'08	
conjunction	1093 Mar 27 j 13:07	12° Ƴ 47'06	-0°36'43	retrograde	1099 Aug 11 j 16:42	11° 8 33'54	
minimum elong	1093 Mar 27 j 13:07	12° Ƴ 47'06	0°36'42	opposition	1099 Oct 27 j 03:33	9° 8 32'55	-0°24'12
max. Earth dist.	1093 Mar 28 j 05:20	12° Ƴ 49'26	20.88347 AU	min. Earth dist.	1099 Oct 26 j 22:21	9° 8 33'27	18.58149 AU
morning rise	1093 Apr 12 j 21:50	13° Y 42'58		direct	1100 Jan 09 j 16:10	7° 8 34'06	
retrograde	1093 Jul 16 j 16:24	16° Ƴ 51'59		evening set	1100 Apr 09 j 10:49	10° 8 38'50	
min. Earth dist.	1093 Oct 01 j 11:19	14° Y 53'10	18.86525 AU				
opposition	1093 Oct 02 j 01:48	14° Y 51'41	-0°39'36	conjunction	1100 Apr 25 j 22:53	11° 8 35'56	-0°20'29
direct	1093 Dec 15 j 21:41	12° Y 54'20		minimum elong	1100 Apr 25 j 22:53	11° 8 35'56	0°20'29
evening set	1094 Mar 15 j 16:31	15° Y 54'38		max. Earth dist.	1100 Apr 26 j 03:06	11° 8 36'32	20.55218 AU
•	·			morning rise	1100 May 12 j 13:51	12° 8 33'29	
conjunction	1094 Mar 31 j 22:28	16° Ƴ 50'11	-0°34'54	Č	1100 Jul 03 j 00:51	15° 8	
minimum elong	1094 Mar 31 j 22:28	16° Ƴ 50'11	0°34'54	retrograde	1100 Aug 15 j 05:30	15° 8 45'43	
max. Earth dist.	1094 Apr 01 j 13:04		20.84597 AU		1100 Sep 28 j 01:32	15° ₹ 8	
morning rise	1094 Apr 17 j 08:12	17° Ƴ 46'15		opposition	1100 Oct 30 j 13:11	13° 8 44'33	-0°21'03
retrograde	1094 Jul 21 j 01:51	20°Υ55'40		min. Earth dist.	1100 Oct 30 j 10:35		18.52193 AU
opposition	1094 Oct 06 j 09:25	18° Y 55'16	-0°37'30	direct	1101 Jan 13 j 00:57	11° 8 45'23	10.32173710
min. Earth dist.	1094 Oct 05 j 21:04		18.82630 AU	evening set	1101 Apr 14 j 00:42	14° 8 51'01	
direct	1094 Dec 20 j 02:03	16°Υ57'45	10.02030 710	evening set	1101 Apr 14 j 00:42	15° 8	
evening set	1094 Bee 20 j 02:03 1095 Mar 20 j 01:22	19° Υ 58'38			1101 Apr 10 j 13.40	13 0	
evening set	1075 Wai 20 J 01.22	17 3030		conjunction	1101 Apr 30 j 13:42	15° 8 48'24	0°17'35
conjunction	1095 Apr 05 j 08:27	20° Y ′54'24	0°32'55	minimum elong	1101 Apr 30 j 13:43	15° 8 48'24	
minimum elong	1095 Apr 05 j 08:27	20° Υ 54'24		max. Earth dist.	1101 Apr 30 j 15:51	_	20.49137 AU
max. Earth dist.	1095 Apr 05 j 08.27 1095 Apr 05 j 22:12		20.80569 AU	morning rise	1101 May 17 j 05:25	16° 8 46'12	20.49137 AU
morning rise		20° 750° 22° 21° 9750° 42°	20.80309 AU	-	• •	19° 8 58'56	
Č	1095 Apr 21 j 19:06	25° \begin{pmatrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		retrograde opposition	1101 Aug 19 j 19:55	17° 8 57'34	0017146
retrograde	1095 Jul 25 j 14:38	23° Υ 00'04	0025112	* *	1101 Nov 03 j 22:56		
opposition	1095 Oct 10 j 17:09		-0°35 12 18.78439 AU	min. Earth dist.	1101 Nov 03 j 21:15	1/-03/44	18.45989 AU
min. Earth dist.	1095 Oct 10 j 05:08	23° Y 01'18 21° Y 02'22	18.78439 AU				
direct	1095 Dec 24 j 09:42						
evening set	1096 Mar 23 j 11:17	24° Ƴ 03'55					
aamine -ti	1006 4 00:10:10	2400050156	0920145				
conjunction	1096 Apr 08 j 19:19	24°Y59'56					
minimum elong	1096 Apr 08 j 19:19	24°Υ59'56					
max. Earth dist.	1096 Apr 09 j 07:14		20.76216 AU				
morning rise	1096 Apr 25 j 06:57	25° Y 56′28					
retrograde	1096 Jul 29 j 01:12	29° Y 06'47					
opposition	1096 Oct 14 j 01:12	27° Y ′06′12					
min. Earth dist.	1096 Oct 13 j 15:43		18.73918 AU				
direct	1096 Dec 27 j 15:08	25° Y 08'17					
evening set	1097 Mar 27 j 21:58	28° Y 10′34					
	1007 4 12:07.05	2000000000	0020125				
conjunction	1097 Apr 13 j 07:06	29° Υ 06'50					
minimum elong	1097 Apr 13 j 07:06	29° Υ 06'50					
max. Earth dist.	1097 Apr 13 j 17:29		20.71530 AU				
	1097 Apr 28 j 17:59	0° 8					
morning rise	1097 Apr 29 j 19:35	0° 8 03'36					
retrograde	1097 Aug 02 j 14:50	3° 8 14'24					
opposition	1097 Oct 18 j 09:34	1° 8 13'43	-0°30'03				