evening set	2600 Mar 17 18:25	12° Y ′00′53		conjunction	2606 Apr 27 1	11:34	6° 8 52'21	-0°28'47
				minimum elong	2606 Apr 27 1	11:34	6° 8 52'21	0°28'48
conjunction	2600 Apr 02 17:15	12° Υ 55'02 -0°40	0'04	max. Earth dist.	2606 Apr 28 (01:54	6° 8 54'24	20.93487 AU
minimum elong	2600 Apr 02 17:15	12° Y 55′02 0°40	0'04	morning rise	2606 May 13 1		7° 8 48'02	
max. Earth dist.	2600 Apr 03 14:51	12° Υ '58'07 21.08		retrograde	2606 Aug 16 1		10° 8 56'28	
	2600 Apr 18 19:36	13° Y 49'42		-	2606 Nov 01 2		8° 8 56'30	0920126
morning rise	=			opposition			_	
retrograde	2600 Jul 22 04:57	16° Υ 56'16	0005 444	min. Earth dist.	2606 Nov 01 (_	18.91396 AU
min. Earth dist.	2600 Oct 07 08:08	14° Y 58'59 19.08		direct	2607 Jan 15 1		6° 8 59'24	
opposition	2600 Oct 08 04:09	14° Y 56′58 -0°43	3'29	evening set	2607 Apr 15 1	15:03	9° 8 59'16	
direct	2600 Dec 22 12:35	13° Y 00'41						
evening set	2601 Mar 21 23:13	15° Ƴ 58'31		conjunction	2607 May 01 2	20:32	10° 8 54'38	-0°26'19
				minimum elong	2607 May 01 2	20:32	10° 8 54'38	0°26'18
conjunction	2601 Apr 06 22:49	16° Y 52'47 -0°38	8'38	max. Earth dist.	2607 May 02 (09:02	10° 8 56'25	20.89184 AU
minimum elong	2601 Apr 06 22:49	16° Ƴ 52'47 0°38		morning rise	2607 May 18 (11° 8 50'32	
max. Earth dist.	2601 Apr 07 19:17	16° Υ 55'42 21.07		retrograde	2607 Aug 20 2		14° 8 59'20	
	-	17° Υ 47'36		•	C		12° 8 59'10	0027120
morning rise	2601 Apr 23 02:13			opposition	2607 Nov 06 (_	
retrograde	2601 Jul 26 12:12	20° Y ′54′24		min. Earth dist.	2607 Nov 05 1			18.86884 AU
opposition	2601 Oct 12 11:00	18° Y 55′03 -0°41		direct	2608 Jan 19 2	23:42	11° 8 01'48	
min. Earth dist.	2601 Oct 11 16:52	18° Y 56'53 19.06	6540 AU	evening set	2608 Apr 18 2	23:32	14° 8 02'12	
direct	2601 Dec 26 16:08	16° Ƴ 58'45						
evening set	2602 Mar 26 04:30	19° Ƴ 56'46		conjunction	2608 May 05 (06:06	14° 8 57'48	-0°23'43
3				minimum elong	2608 May 05 (14° 8 57'48	
aamiumatiam	2602 Amr. 11 05:00	20° Y ′51'11 -0°37	710.1	minimum clong	•		15° と	0 23 43
conjunction	2602 Apr 11 05:09			E (1.11)	2608 May 05 2		_	20.04407.411
minimum elong	2602 Apr 11 05:09	20° Υ 51'11 0°37		max. Earth dist.	2608 May 05 1		_	20.84497 AU
max. Earth dist.	2602 Apr 12 01:09	20° Y 54'02 21.05		morning rise	2608 May 21		15° 8 53'56	
morning rise	2602 Apr 27 09:25	21° Y '46'08		retrograde	2608 Aug 24 (9:16	19° 8 03'08	
retrograde	2602 Jul 30 22:03	24° Ƴ 53'13		opposition	2608 Nov 09 1	12:16	17° 8 02'45	-0°24'41
opposition	2602 Oct 16 17:33	22°Υ53'49 -0°39	9'54	min. Earth dist.	2608 Nov 09 (02:11	17° 8 03'48	18.82017 AU
min. Earth dist.	2602 Oct 15 23:31	22° Y 55'38 19.04	4573 AU	direct	2609 Jan 23 (07:23	15° 8 05'05	
direct	2602 Dec 30 21:17	20° Ƴ 57'26		evening set	2609 Apr 23 (08:40	18° 8 06'07	
evening set	2603 Mar 30 10:26	23° Y '55'43		evening sec	2007 pr 25 (,	10 00007	
evening set	2003 Wai 30 10.20	23 33 43		conjunction	2609 May 09 1	16:10	19° 8 01'58	0°20'50
	2602 A 15 11.55	2400050110 0025	511.2	•	•		_	
conjunction	2603 Apr 15 11:55	24° Υ ′50'18 -0°35		minimum elong	2609 May 09 1		19° 8 01'58	
minimum elong	2603 Apr 15 11:55	24° Y 50'18 0°35		max. Earth dist.	2609 May 10 (20.79468 AU
max. Earth dist.	2603 Apr 16 06:13	24° Y 52'54 21.03		morning rise	2609 May 26 (19° 8 58'20	
morning rise	2603 May 01 17:14	25° Y 45′25		retrograde	2609 Aug 28 1	18:35	23° 8 08'00	
retrograde	2603 Aug 04 06:09	28° Ƴ 52'49		opposition	2609 Nov 13 2	20:05	21° 8 07'25	-0°21'36
min. Earth dist.	2603 Oct 20 08:41	26° Y 54'55 19.02	2083 AU	min. Earth dist.	2609 Nov 13 1	12:11	21° 8 08'14	18.76843 AU
opposition	2603 Oct 21 00:28	26° Y 53'19 -0°37	7'49	direct	2610 Jan 27 1	12:45	19° 8 09'26	
direct	2604 Jan 04 01:24	24° Y 56'51		evening set	2610 Apr 27 1		22° 8 11'10	
evening set	2604 Apr 02 16:42	27° Y ′55'27						
e vennig see	200171p1 02 10:12	27 13327		conjunction	2610 May 14 (03.00	23° 8 07'17	0.18,08
	2004 A 10 10.14	28° Y 50'12 -0°33	211.5	·	•		23° 8 07'17	
conjunction	2604 Apr 18 19:14			minimum elong	2610 May 14 (
minimum elong	2604 Apr 18 19:14	28° Y 50'12 0°33		max. Earth dist.	2610 May 14 1		_	20.74172 AU
max. Earth dist.	2604 Apr 19 12:36	28° Y 52'40 21.00	0614 AU	morning rise	2610 May 30 1		24° 8 03'54	
morning rise	2604 May 05 01:25	29° Ƴ 45'29		retrograde	2610 Sep 02 0	07:26	27° 8 14'02	
	2604 May 09 10:26	0° 8		opposition	2610 Nov 18 ()3:54	25° 8 13'16	-0°18'24
retrograde	2604 Aug 07 16:37	2° 8 53'13		min. Earth dist.	2610 Nov 17 2	20:26	25° 8 14'03	18.71421 AU
opposition	2604 Oct 24 07:22	0° 8 53'36 -0°35	5'32	direct	2611 Jan 31 2	21:13	23° 8 14'59	
min. Earth dist.	2604 Oct 23 15:52	0° 8 55'11 18.99		evening set	2611 May 02 (26° 8 17'31	
min. Lutin dist.	2604 Nov 16 03:54	30°R Y	0010710	evening sec	2011 May 02	,5.17	20 017 31	
J:		•			2611 Mars 10 1	14.40	270 🔾 1 215 4	0015!11
direct	2605 Jan 07 07:17	28° Y 56'59		conjunction	2611 May 18 1		27° 8 13'54	
	2605 Feb 26 14:36	0° 8		minimum elong	2611 May 18 1		27° 8 13'54	0°15'11
evening set	2605 Apr 06 23:39	1° 8 55'56		behind sun begin	2611 May 18 1		27° 8 13'37	
				behind sun end	2611 May 18 1	16:49	27° 8 14'11	
conjunction	2605 Apr 23 03:05	2° 8 50'53 -0°31	1'06	max. Earth dist.	2611 May 18 2	21:51	27° 8 14'54	20.68633 AU
minimum elong	2605 Apr 23 03:05	2° 8 50'53 0°31	1'05	morning rise	2611 Jun 04 ()3:32	28° 8 10'46	
max. Earth dist.	2605 Apr 23 18:32	2° 8 53'05 20.97	7305 AU		2611 Jul 09 2	23:13	$\Pi^{\circ}0$	
morning rise	2605 May 09 10:19	3° 8 46'22		retrograde	2611 Sep 06 1		1° Ⅲ 21'25	
retrograde	2605 Aug 12 01:06	6° 8 54'26			2611 Nov 06 (30°R 8	
opposition	2605 Oct 28 14:30	4° 8 54'40 -0°33	3'04	opposition	2611 Nov 22 1		29° 8 20'30	-0°15'04
* *				* *				
min. Earth dist.	2605 Oct 28 01:22	4° 8 56'00 18.95	54/0 AU	min. Earth dist.	2611 Nov 22 (18.65781 AU
direct	2606 Jan 11 11:54	2° 8 57'50		direct	2612 Feb 05 (27° 8 21'55	
evening set	2606 Apr 11 07:00	5° 8 57'12			2612 Apr 28 ($\Pi^{\circ}0$	
				evening set	2612 May 05 1	16:37	0° Ⅱ 25′18	

conjunction	2612 May 22 03:07	1° Ⅱ 21'58	-0°12'09	retrograde	2617 Oct 02 08:53	26°∏42'28	
minimum elong	2612 May 22 03:06	1° Ⅱ 21'58	0°12'08	opposition	2617 Dec 17 01:25	24° Ⅱ 40′56	0°06'23
behind sun begin	2612 May 21 22:38	1° Ⅱ 21′20		min. Earth dist.	2617 Dec 17 05:13	24° Ⅱ 40′32	18.28284 AU
behind sun end	2612 May 22 07:35	1° Ⅱ 22'36		direct	2618 Mar 01 14:46	22° Ⅱ 40′30	
max. Earth dist.	2612 May 22 08:47	1° Ⅱ 22'46	20.62912 AU	evening set	2618 Jun 01 09:55	25° Ⅱ 50′23	
morning rise	2612 Jun 07 16:39	2° Ⅱ 19'06					
retrograde	2612 Sep 10 07:59	5° Ⅱ 30′20		conjunction	2618 Jun 18 01:23	26° Ⅱ 48'55	0°07'27
opposition	2612 Nov 25 21:10	3° Ⅱ 29'16	-0°11'39	minimum elong	2618 Jun 18 01:22	26° ∏ 48'54	0°07'27
min. Earth dist.	2612 Nov 25 16:15	3° Ⅱ 29'47	18.59969 AU	behind sun begin	2618 Jun 17 19:14	26° Ⅱ 48'01	
direct	2613 Feb 08 12:35	1° Ⅱ 30′24		behind sun end	2618 Jun 18 07:31	26° Ⅱ 49'47	
evening set	2613 May 10 05:01	4° Ⅱ 34'43		max. Earth dist.	2618 Jun 17 19:27		20.24868 AU
				morning rise	2618 Jul 04 18:43	27° Ⅱ 47'43	
conjunction	2613 May 26 16:25	5° Ⅱ 31'41			2618 Aug 17 17:31	0 \circ \odot	
minimum elong	2613 May 26 16:26	5° Ⅱ 31'41	0°09'02	retrograde	2618 Oct 07 01:20	1° 5 02'48	
behind sun begin	2613 May 26 10:43	5° Ⅱ 30'52			2618 Nov 27 10:20	30°Ŗ Ⅱ	
behind sun end	2613 May 26 22:08	5° Ⅱ 32'29		opposition	2618 Dec 21 13:37	29° Ⅱ 01'07	
max. Earth dist.	2613 May 26 20:37		20.57014 AU	min. Earth dist.	2618 Dec 21 18:43		18.21363 AU
morning rise	2613 Jun 12 06:44	6° Ⅱ 29'05		direct	2619 Mar 06 04:11	27° Ⅱ 00′16	
retrograde	2613 Sep 14 20:27	9° Ⅱ 40'55	0000100		2619 Jun 02 21:09	0.ee	
opposition	2613 Nov 30 06:29	7° Ⅱ 39'45		evening set	2619 Jun 06 04:17	0° © 11'22	
min. Earth dist.	2613 Nov 30 03:46		18.53991 AU		2610 1 22 20 20	10610110	0010145
direct	2614 Feb 12 20:11	5° Ⅱ 40'35		conjunction	2619 Jun 22 20:28	1°5510'12	0°10'45
evening set	2614 May 14 18:20	8° Ⅱ 45'55		minimum elong	2619 Jun 22 20:28	1°5010'12	0°10'45
:	2614 Mars 21 06:42	00 Π 42111	0005151	behind sun begin	2619 Jun 22 15:21	1°509'28	
conjunction	2614 May 31 06:42	9° Ⅱ 43'11 9° Ⅱ 43'11	0°05'51	behind sun end	2619 Jun 23 01:35	1°510'57	20 17970 ATT
minimum elong	2614 May 31 06:42 2614 May 31 00:16	9° Д 43'11	0-0551	max. Earth dist.	2619 Jun 22 13:09 2619 Jul 09 14:03	2°909'17	20.17860 AU
behind sun begin behind sun end	2614 May 31 10:16 2614 May 31 13:07	9° ∏ 44'06		morning rise	2619 Oct 11 17:44	5°\$24'59	
max. Earth dist.	2614 May 31 19:05		20.50968 AU	retrograde opposition	2619 Dec 26 02:36	3°\$23'09	0°13'43
morning rise	2614 Jun 16 21:47	10° I I40'52	20.50700 AC	min. Earth dist.	2619 Dec 26 09:45		18.14294 AU
retrograde	2614 Sep 19 11:30	13° I I53'20		direct	2620 Mar 09 17:31	1° © 21'53	10.142)4 AO
opposition	2614 Dec 04 16:15	11° II 52'05	-0°04'35	evening set	2620 Jun 09 23:26	4°934'12	
min. Earth dist.	2614 Dec 04 14:18		18.47857 AU	evening sec	2020 3411 07 23.20	. 03.12	
direct	2615 Feb 17 06:03	9° ∏ 52'38		conjunction	2620 Jun 26 16:07	5° © 33'20	0°14'00
evening set	2615 May 19 08:41	12° ∏ 59'02		minimum elong	2620 Jun 26 16:07	5° © 33'20	0°14'00
8				behind sun begin	2620 Jun 26 12:54	5° © 32'52	
conjunction	2615 Jun 04 21:50	13° Ⅱ 56'37	-0°02'36	behind sun end	2620 Jun 26 19:21	5° © 33'48	
minimum elong	2615 Jun 04 21:52	13° Ⅱ 56'37	0°02'36	max. Earth dist.	2620 Jun 26 06:05	5° © 31'51	20.10760 AU
behind sun begin	2615 Jun 04 15:08	13° Ⅱ 55'40		morning rise	2620 Jul 13 10:11	6° ॐ 32'41	
behind sun end	2615 Jun 05 04:36	13° Ⅱ 57'34		retrograde	2620 Oct 15 11:32	9° 5 349'02	
max. Earth dist.	2615 Jun 04 22:43	13° Ⅱ 56'42	20.44736 AU	opposition	2620 Dec 29 16:08	7° 5 347'00	0°17'19
morning rise	2615 Jun 21 13:30	14° Ⅱ 54'35		min. Earth dist.	2620 Dec 30 00:35	7° 5 346'06	18.07173 AU
retrograde	2615 Sep 24 01:34	18° Ⅲ 07'42		direct	2621 Mar 14 08:46	5° 5 °45'16	
opposition	2615 Dec 09 02:41	16° Ⅱ 06′22	-0°00'57	evening set	2621 Jun 14 19:38	8° 9 58'50	
min. Earth dist.	2615 Dec 09 03:03	16° Ⅱ 06′20	18.41532 AU				
direct	2616 Feb 21 15:43	14° Ⅱ 06'38					
asc. node				conjunction	2621 Jul 01 12:59	9° © 58'17	0°17'12
evening set	2616 Mar 15 00:05	14° Ⅱ 19'47		minimum elong	2621 Jul 01 12:59	9° © 58'17	0°17'12
-	2616 Mar 15 00:05 2616 May 23 00:04	14° Ⅱ 19'47 17° Ⅱ 14'10		minimum elong max. Earth dist.	2621 Jul 01 12:59 2621 Jul 01 02:01	9°\$58'17 9°\$56'39	
-	2616 May 23 00:04	17° Ⅱ 14'10		minimum elong max. Earth dist. morning rise	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08	9°©58'17 9°©56'39 10°©57'54	0°17'12
conjunction	2616 May 23 00:04 2616 Jun 08 14:02	17° Ⅱ 14'10 18° Ⅱ 12'03	0°00'48	minimum elong max. Earth dist. morning rise retrograde	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15	9°558'17 9°556'39 10°557'54 14°514'49	0°17'12 20.03625 AU
minimum elong	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 14:02	17° Д 14'10 18° Д 12'03 18° Д 12'03	0°00'48 0°00'48	minimum elong max. Earth dist. morning rise retrograde opposition	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14	9°958'17 9°956'39 10°957'54 14°914'49 12°912'38	0°17'12 20.03625 AU 0°20'50
minimum elong behind sun begin	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 14:02 2616 Jun 08 07:17	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06		minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26	9°958'17 9°956'39 10°957'54 14°914'49 12°912'38 12°911'32	0°17'12 20.03625 AU
minimum elong behind sun begin behind sun end	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01	0°00'48	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39	9°\$55'17 9°\$56'39 10°\$57'54 14°\$14'49 12°\$12'38 12°\$11'32	0°17'12 20.03625 AU 0°20'50
minimum elong behind sun begin behind sun end max. Earth dist.	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55		minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26	9°958'17 9°956'39 10°957'54 14°914'49 12°912'38 12°911'32	0°17'12 20.03625 AU 0°20'50
minimum elong behind sun begin behind sun end max. Earth dist. morning rise	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55 19°Д10'18	0°00'48	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jun 19 16:51	9°\$55'17 9°\$56'39 10°\$57'54 14°\$14'49 12°\$12'38 12°\$11'32 10°\$10'27 13°\$25'16	0°17'12 20.03625 AU 0°20'50 18.00053 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55 19°Д10'18 22°Д24'06	0°00'48 20.38326 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30	9°558'17 9°556'39 10°557'54 14°514'49 12°512'38 12°511'32 10°510'27 13°525'16	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 07:17 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01 18°Д10'18 22°Д24'06 20°Д22'40	0°00'48 20.38326 AU 0°02'42	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30 2622 Jul 06 10:30	9°\$58'17 9°\$56'39 10°\$57'54 14°\$14'49 12°\$12'38 12°\$11'32 10°\$10'27 13°\$25'16 14°\$25'00 14°\$25'00	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55 19°Д10'18 22°Д24'06 20°Д22'40 20°Д22'30	0°00'48 20.38326 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jun 19 16:51 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47	9°558'17 9°556'39 10°557'54 14°514'49 12°512'38 12°511'32 10°510'27 13°525'16 14°525'00 14°525'00 14°522'57	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56	17° Д 14'10 18° Д 12'03 18° Д 11'06 18° Д 11'06 18° Д 11'55 19° Д 10'18 22° Д 24'06 20° Д 22'40 20° Д 22'40 18° Д 12'30 18° Д 22'35	0°00'48 20.38326 AU 0°02'42	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57	9°958'17 9°956'39 10°957'54 14°914'49 12°912'38 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°922'57 15°924'52	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07	17°Д14'10 18°Д12'03 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55 19°Д10'18 22°Д24'06 20°Д22'40 20°Д22'30	0°00'48 20.38326 AU 0°02'42	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jun 19 16:51 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19	9°958'17 9°956'39 10°957'54 14°914'49 12°912'38 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°925'57 15°924'52 18°942'24	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56 2617 May 27 16:25	17°Д14'10 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55 19°Д10'18 22°Д24'06 20°Д22'40 20°Д22'30 18°Д22'35 21°Д31'17	0°00'48 20.38326 AU 0°02'42 18.35021 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	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19 2623 Jan 07 21:03	9°958'17 9°956'39 10°957'54 14°914'49 12°912'38 12°911'32 10°910'27 13°925'16 14°925'00 14°922'57 15°924'52 18°942'24 16°940'02	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 02:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56 2617 May 27 16:25	17°Д14'10 18°Д12'03 18°Д11'06 18°Д13'01 18°Д11'55 19°Д10'18 22°Д24'06 20°Д22'40 20°Д22'30 18°Д22'35 21°Д31'17	0°00'48 20.38326 AU 0°02'42 18.35021 AU 0°04'09	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.	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jun 19 16:51 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19 2623 Jan 07 21:03 2623 Jan 08 08:34	9°958'17 9°956'39 10°957'54 14°914'49 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°922'57 15°924'52 18°942'24 16°940'02 16°938'48	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56 2617 May 27 16:25 2617 Jun 13 07:14 2617 Jun 13 07:13	17° Д 14'10 18° Д 12'03 18° Д 11'06 18° Д 13'01 18° Д 11'55 19° Д 10'18 22° Д 24'06 20° Д 22'40 20° Д 22'35 21° Д 31'17 22° Д 29'30 22° Д 29'30	0°00'48 20.38326 AU 0°02'42 18.35021 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	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19 2623 Jan 07 21:03 2623 Jan 08 08:34 2623 Mar 23 15:57	9°958'17 9°956'39 10°957'54 14°914'49 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°925'00 14°922'57 15°924'52 18°942'24 16°940'02 16°938'48 14°937'23	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56 2617 May 27 16:25 2617 Jun 13 07:14 2617 Jun 13 07:13 2617 Jun 13 00:34	17° Д 14'10 18° Д 12'03 18° Д 11'06 18° Д 13'01 18° Д 11'55 19° Д 10'18 22° Д 24'06 20° Д 22'40 20° Д 22'35 21° Д 31'17 22° Д 29'30 22° Д 29'30 22° Д 28'33	0°00'48 20.38326 AU 0°02'42 18.35021 AU 0°04'09	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.	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jun 19 16:51 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19 2623 Jan 07 21:03 2623 Jan 08 08:34	9°958'17 9°956'39 10°957'54 14°914'49 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°922'57 15°924'52 18°942'24 16°940'02 16°938'48	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 07:17 2616 Jun 08 20:46 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56 2617 May 27 16:25 2617 Jun 13 07:14 2617 Jun 13 07:13	17° Д 14'10 18° Д 12'03 18° Д 11'06 18° Д 13'01 18° Д 11'55 19° Д 10'18 22° Д 24'06 20° Д 22'40 20° Д 22'30 18° Д 22'35 21° Д 31'17 22° Д 29'30 22° Д 29'30 22° Д 28'33 22° Д 30'27	0°00'48 20.38326 AU 0°02'42 18.35021 AU 0°04'09	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	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19 2623 Jan 07 21:03 2623 Jan 08 08:34 2623 Mar 23 15:57	9°958'17 9°956'39 10°957'54 14°914'49 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°925'00 14°922'57 15°924'52 18°942'24 16°940'02 16°938'48 14°937'23	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong behind sun begin behind sun end	2616 May 23 00:04 2616 Jun 08 14:02 2616 Jun 08 07:17 2616 Jun 08 07:17 2616 Jun 08 12:34 2616 Jun 08 12:34 2616 Jun 25 06:21 2616 Sep 27 17:21 2616 Dec 12 13:40 2616 Dec 12 15:07 2617 Feb 25 02:56 2617 May 27 16:25 2617 Jun 13 07:14 2617 Jun 13 07:13 2617 Jun 13 00:34 2617 Jun 13 13:52	17° Д 14'10 18° Д 12'03 18° Д 11'06 18° Д 13'01 18° Д 11'55 19° Д 10'18 22° Д 24'06 20° Д 22'40 20° Д 22'30 18° Д 22'35 21° Д 31'17 22° Д 29'30 22° Д 29'30 22° Д 28'33 22° Д 30'27	0°00'48 20.38326 AU 0°02'42 18.35021 AU 0°04'09 0°04'10	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	2621 Jul 01 12:59 2621 Jul 01 02:01 2621 Jul 18 07:08 2621 Oct 20 05:15 2622 Jan 03 06:14 2622 Jan 03 16:26 2622 Mar 18 23:39 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 06 10:30 2622 Jul 05 20:47 2622 Jul 23 04:57 2622 Oct 25 00:19 2623 Jan 07 21:03 2623 Jan 08 08:34 2623 Mar 23 15:57 2623 Jun 24 14:40	9°958'17 9°956'39 10°957'54 14°914'49 12°911'32 10°910'27 13°925'16 14°925'00 14°925'00 14°925'57 15°924'52 18°94'52 18°94'02 16°938'48 14°937'23 17°953'29	0°17'12 20.03625 AU 0°20'50 18.00053 AU 0°20'19 0°20'19 19.96544 AU 0°24'15 17.93033 AU

max. Earth dist. morning rise retrograde opposition min. Earth dist.	2623 Jul 10 18:42 2623 Jul 28 03:07 2623 Oct 29 19:59 2624 Jan 12 12:36 2624 Jan 13 01:15	19°©53'37 23°©11'44 21°©09'13	19.89582 AU 0°27'32 17.86165 AU	morning rise retrograde opposition min. Earth dist. direct	2629 Aug 25 07:39 2629 Nov 26 07:18 2630 Feb 08 01:28 2630 Feb 08 19:39 2630 Apr 24 06:20	17°\O24'09 20°\O45'31 18°\O42'43 18°\O40'43 16°\O37'41	0°43'24 17.51484 AU
direct evening set	2624 Mar 27 08:35 2624 Jun 28 13:34	19° © 06'08 22° © 23'30		evening set	2630 Jul 28 00:14 2630 Aug 13 18:16	20°Ω02'28 21°Ω04'07	0°39'48
conjunction	2624 Jul 15 07:49	23° © 23'47	0°26'12	minimum elong	2630 Aug 13 18:16	21° Ω 04'07	0°39'48
minimum elong	2624 Jul 15 07:48	23° © 23'47	0°26'13	max. Earth dist.	2630 Aug 12 19:14	21° Ω 00′33	19.49129 AU
max. Earth dist.	2624 Jul 14 15:11	23° 5 21'17	19.82828 AU	morning rise	2630 Aug 30 10:33	22° Ω 05'31	
morning rise	2624 Aug 01 02:16	24°524'08		retrograde	2630 Dec 01 05:23	25° Ω 27'19	
retrograde	2624 Nov 02 16:01	27°542'50	0020141	opposition	2631 Feb 12 22:30	23° £ 24'31	
opposition min. Earth dist.	2625 Jan 16 04:47 2625 Jan 16 18:43	25°540'11 25°538'40	0°30'41 17.79552 AU	min. Earth dist. direct	2631 Feb 13 18:23 2631 Apr 29 04:29	23° β (22'20' 21° Ω 19'13	17.46915 AU
direct	2625 Apr 01 01:37	23° © 36'40	17.79332 AU	evening set	2631 Apr 29 04:29 2631 Aug 02 04:20	24° Ω 45'05	
evening set	2625 Jul 03 13:11	26°\$55'19		evening sec	20311148 02 01.20	2.00.000	
Č				conjunction	2631 Aug 18 22:04	25° Ω 46'52	0°41'17
conjunction	2625 Jul 20 07:49	27° © 55'53	0°28'57	minimum elong	2631 Aug 18 22:04	25° Ω 46′52	0°41'17
minimum elong	2625 Jul 20 07:49	27° © 55'53	0°28'56	max. Earth dist.	2631 Aug 17 22:40		19.44726 AU
max. Earth dist.	2625 Jul 19 15:04		19.76345 AU	morning rise	2631 Sep 04 13:42	26° Ω 48'22	
morning rise	2625 Aug 06 02:00	28°956'27			2631 Nov 16 18:22	0° m)	
	2625 Aug 24 17:36	0°Ω 2°Ω1 <i>5</i> 142		retrograde	2631 Dec 06 06:21	0° m 10'33	
retrograde opposition	2625 Nov 07 13:46 2626 Jan 20 21:48	2°Ω15'43 0°Ω12'58	0°33'39	opposition	2631 Dec 25 19:56 2632 Feb 17 20:04	30°RΩ 28°Ω07'45	0.046,43
min. Earth dist.	2626 Jan 21 12:25		17.73223 AU	min. Earth dist.	2632 Feb 17 20:04 2632 Feb 18 15:45		17.42685 AU
mm. Lattii dist.	2626 Jan 25 21:13	30°RS	17.73223 AO	direct	2632 May 03 05:38	26° Ω 02'13	17.42003 AO
direct	2626 Apr 05 20:17	28°509'05		evening set	2632 Aug 06 09:07	29° Ω 29'03	
	2626 Jun 11 19:54	$0^{\circ}\Omega$		C	2632 Aug 14 19:04	0° m p	
evening set	2626 Jul 08 13:52	1° Ω 29'00		max. Earth dist.	2632 Aug 22 01:52	0° الله 27′09	19.40670 AU
conjunction	2626 Jul 25 08:24	2° Ω 29'49	0°31'31	conjunction	2632 Aug 23 02:21	0° Mp 30'57	0°42'29
minimum elong	2626 Jul 25 08:24	2° Ω 29'49	0°31'31	minimum elong	2632 Aug 23 02:21	0° Mp 30'57	0°42'29
max. Earth dist. morning rise	2626 Jul 24 13:19 2626 Aug 11 02:30	2°8 (26°55 3° Ω 30'36	19.70183 AU	morning rise retrograde	2632 Sep 08 17:14 2632 Dec 10 04:44	1° Mp 32'32 4° Mp 55'02	
retrograde	2626 Nov 12 10:22	6° Ω 50'25		opposition	2633 Feb 21 18:18	2° my 52'12	0°47'54
opposition	2627 Jan 25 15:33	4° Ω 47'37	0°36'25	min. Earth dist.	2633 Feb 22 15:37	-	17.38831 AU
min. Earth dist.	2627 Jan 26 07:31		17.67250 AU	direct	2633 May 08 05:26	0° m/46'26	
direct	2627 Apr 10 14:34	2° Ω 43′23		evening set	2633 Aug 11 14:14	4° mp 14'10	
evening set	2627 Jul 13 15:10	6° Ω 04'35		max. Earth dist.	2633 Aug 27 05:52	5° Mp 12'15	19.37019 AU
conjunction	2627 Jul 30 09:53	7° Ω 05'38		conjunction	2633 Aug 28 06:57	5° m 16'09	0°43'24
minimum elong max. Earth dist.	2627 Jul 30 09:53 2627 Jul 29 14:53	7° Ω 05'38	0°33'55 19.64388 AU	minimum elong morning rise	2633 Aug 28 06:57 2633 Sep 13 21:07	5° Mp 16'09 6° Mp 17'48	0°43'23
morning rise	2627 Aug 16 03:33	8° Ω 06'36	19.04388 AU	retrograde	2633 Dec 15 06:04	9° m 40'32	
retrograde	2627 Nov 17 09:42	11° Ω 26'58		opposition	2634 Feb 26 17:04	7° mp 37'42	0°48'46
opposition	2628 Jan 30 10:04	9° Ω 24'08	0°38'59	min. Earth dist.	2634 Feb 27 13:51	•	17.35390 AU
min. Earth dist.	2628 Jan 31 02:24	9° Ω 22'21	17.61637 AU	direct	2634 May 13 08:25	5° m/31′42	
direct	2628 Apr 14 11:15	7° Ω 19'38		evening set	2634 Aug 16 19:30	9° ™ 00'12	
evening set	2628 Jul 17 17:22	10° Ω 42'04		max. Earth dist.	2634 Sep 01 10:28	9° m ,58′20	19.33795 AU
conjunction	2628 Aug 03 11:51	11° Ω 43'20	0°36'06	conjunction	2634 Sep 02 11:37	10° m 02'16	0°44'00
minimum elong	2628 Aug 03 11:51	11° Ω 43'20		minimum elong	2634 Sep 02 11:37 2634 Sep 02 11:37	10° Mp 02'16	0°44'01
max. Earth dist.	2628 Aug 02 14:49		19.58957 AU	morning rise	2634 Sep 19 00:48	11° m 03'56	
morning rise	2628 Aug 20 05:16	12° Ω 44'28		retrograde	2634 Dec 20 05:05	14° m/26'52	
-	2628 Oct 02 09:38	15° Ω		opposition	2635 Mar 03 16:30	12° m 24'01	0°49'17
retrograde	2628 Nov 21 07:03	16° Ω 05'22		min. Earth dist.	2635 Mar 04 14:30	12°M 21'36	17.32414 AU
	2629 Jan 11 09:30	15°R Ω		direct	2635 May 18 09:44	10° m 17'49	
opposition	2629 Feb 03 05:28	14° Ω 02'32		evening set	2635 Aug 22 00:55	13° m 47'00	
min. Earth dist.	2629 Feb 03 23:25		17.56394 AU		2625.5	1.40 % .4010 =	0044440
direct	2629 Apr 19 07:28	11° Ω 57'45		conjunction	2635 Sep 07 16:15	14° Mp 49'05	0°44'19
avaning set	2629 Jul 16 20:09 2629 Jul 22 20:23	15° Ω 15° Ω 21'24		minimum elong max. Earth dist.	2635 Sep 07 16:15	14° m 49'05 14° m 45'04	0°44'19 19.31080 AU
evening set	2027 Jul 22 20:23	15° Ω 21'24		max. Earth dist.	2635 Sep 06 14:34 2635 Sep 24 04:40	14° 110 45'04 15° 110 50'46	17.31U0U AU
conjunction	2629 Aug 08 14:49	16° Ω 22'52	0°38'04	retrograde	2635 Dec 25 06:41	19° Mp 13'49	
minimum elong	2629 Aug 08 14:49	16° Ω 22'52		opposition	2636 Mar 07 16:12	17° Mp 10'57	0°49'28
max. Earth dist.	2629 Aug 07 17:35		19.53880 AU	min. Earth dist.	2636 Mar 08 13:17		17.29967 AU

1:	2626 M 22 12 21	1.50 m. 0.412.2			2642.0 + 11 10.24	100 0 22120	0020100
direct	2636 May 22 13:31	15° m/04'33		minimum elong	2642 Oct 11 19:34	18° £ 22'30	
evening set	2636 Aug 26 06:14	18° m 34'18		max. Earth dist.	2642 Oct 11 00:26		19.29511 AU
				morning rise	2642 Oct 28 00:32	19° ≏ 23'31	
conjunction	2636 Sep 11 20:56	19° m 36'24	0°44'19	retrograde	2643 Jan 27 09:42	22° ≏ 45'55	
minimum elong	2636 Sep 11 20:56	19° m 36'24	0°44'19	opposition	2643 Apr 11 00:29	20° ≏ 43'42	0°41'18
max. Earth dist.	2636 Sep 10 20:11	19° m 32'31	19.28907 AU	min. Earth dist.	2643 Apr 11 17:08	20° ≏ 41'54	17.30608 AU
morning rise	2636 Sep 28 08:17	20° m/38'04		direct	2643 Jun 26 13:38	18° ≏ 37'29	
retrograde	2636 Dec 29 06:22	24° m/01'10		evening set	2643 Sep 30 14:18	22° ഫ 08'01	
opposition	2637 Mar 12 16:32	21° m/ 58'18	0°49'18	8			
min. Earth dist.	2637 Mar 13 14:18		17.28087 AU	conjunction	2643 Oct 16 21:55	23° ≏ 09'24	0°35'58
direct		19° m) 51'46	17.20007 AU	minimum elong	2643 Oct 16 21:55	23° ⊆ 09'24 23° ⊆ 09'24	0°35'58
	2637 May 27 15:10			- C			
evening set	2637 Aug 31 11:42	23° m/21'57	10.00000 177	max. Earth dist.	2643 Oct 16 03:04		19.31791 AU
max. Earth dist.	2637 Sep 16 00:11	24° m) 20'04	19.27338 AU	morning rise	2643 Nov 02 01:53	24° ≙ 10'14	
				retrograde	2644 Feb 01 09:05	27° ≏ 32'20	
conjunction	2637 Sep 17 01:23	24° m 24'02	0°44'00	opposition	2644 Apr 15 02:22	25° ≏ 30'16	0°38'54
minimum elong	2637 Sep 17 01:23	24° m 24'02	0°44'01	min. Earth dist.	2644 Apr 15 18:21	25° ≏ 28'33	17.33151 AU
morning rise	2637 Oct 03 11:53	25° m 25'39		direct	2644 Jun 30 18:00	23° ≏ 24'15	
retrograde	2638 Jan 03 08:16	28° m/48'45		evening set	2644 Oct 04 17:12	26° £ 54'26	
opposition	2638 Mar 17 17:02	26° m 45'55	0°48'48	Č			
min. Earth dist.	2638 Mar 18 13:36		17.26839 AU	conjunction	2644 Oct 20 23:50	27° £ 55'36	0°33'42
direct	2638 Jun 01 19:16	24° Mp 39'16	17.20037110	minimum elong	2644 Oct 20 23:50	27° £ 55'36	
	2638 Sep 05 16:51			max. Earth dist.	2644 Oct 20 06:52		19.34576 AU
evening set		28° Mp 09'48	10.26416.447				19.34376 AU
max. Earth dist.	2638 Sep 21 06:22	29°11008'09	19.26416 AU	morning rise	2644 Nov 06 02:39	28° ≙ 56'14	
					2644 Nov 24 01:33	0° M ₊	
conjunction	2638 Sep 22 05:47	29° Mp 11'50	0°43'23	retrograde	2645 Feb 05 08:48	2°M17'57	
minimum elong	2638 Sep 22 05:47	29° m 11'50	0°43'23	opposition	2645 Apr 20 04:23	0°M16'04	0°36'14
	2638 Oct 05 00:34	0∘ ত		min. Earth dist.	2645 Apr 20 18:52	0°M14'30	17.36149 AU
morning rise	2638 Oct 08 15:02	0° ₽ 13'23			2645 Apr 26 09:55	30° ₹ Ω	
retrograde	2639 Jan 08 08:22	3° £ 36′25		direct	2645 Jul 05 22:58	28° ♀ 10'15	
opposition	2639 Mar 22 18:09	1° ₽ 33'39	0°47'56		2645 Sep 10 13:15	0° M ₊	
min. Earth dist.	2639 Mar 23 14:39		17.26257 AU	evening set	2645 Oct 09 19:33	1°M39'56	
mm. zam and.	2639 May 01 23:08	30°R MD	17.20207110	max. Earth dist.	2645 Oct 25 08:45		19.37795 AU
direct	2639 Jun 06 21:04	29° M) 26'58		max. Earth dist.	2043 Oct 23 00.43	2 1103020	17.57775710
direct					2645.0 + 26.00.50	20 m 40152	0021112
	2639 Jul 12 08:08	0° ™		conjunction	2645 Oct 26 00:58	2°M40'53	0°31'12
evening set	2639 Sep 10 21:46	2° £ 57'43		minimum elong	2645 Oct 26 00:58	2°M40'53	0°31'11
max. Earth dist.	2639 Sep 26 10:01	3° £ 55'57	19.26189 AU	morning rise	2645 Nov 11 02:42	3°M41'18	
				retrograde	2646 Feb 10 07:08	7°M02'36	
conjunction	2639 Sep 27 09:34	3° ≏ 59'40	0°42'28	opposition	2646 Apr 25 06:22	5°M00'52	0°33'19
minimum elong	2639 Sep 27 09:35	3° ≙ 59'40	0°42'28	min. Earth dist.	2646 Apr 25 20:22	4°M59'22	17.39584 AU
morning rise	2639 Oct 13 17:57	5° ≙ 01'07		direct	2646 Jul 11 02:05	2°M55'15	
retrograde	2640 Jan 13 09:48	8° £ 24'06		evening set	2646 Oct 14 21:05	6°M24'21	
opposition	2640 Mar 26 19:22	6° £ 21′23	0°46'45	max. Earth dist.	2646 Oct 30 10:52	7° M .22'45	19.41440 AU
min. Earth dist.	2640 Mar 27 14:32		17.26378 AU				
direct	2640 Jun 11 01:25	4° £ 14'45	17.20370110	conjunction	2646 Oct 31 01:25	7°M25'02	0°28'30
evening set	2640 Sep 15 02:24	7° £ 45'37		minimum elong	2646 Oct 31 01:25	7°M25'02	0°28'30
evening set	2040 Sep 13 02.24	/ ==4337		•			0 28 30
	2640.0 + 01 12.24	00.0 47100	004111.5	morning rise	2646 Nov 16 02:07	8°M25'13	
conjunction	2640 Oct 01 13:24	8° £ 47'29	0°41'15	retrograde	2647 Feb 15 06:48	11°M46'02	0020111
minimum elong	2640 Oct 01 13:24	8° £ 47'29	0°41'15	opposition	2647 Apr 30 08:04	9°M44'27	
max. Earth dist.	2640 Sep 30 16:01		19.26653 AU	min. Earth dist.	2647 Apr 30 20:04	9°M43'10	17.43412 AU
morning rise	2640 Oct 17 20:33	9° ≏ 48'48		direct	2647 Jul 16 06:48	7°M39'04	
retrograde	2641 Jan 17 09:36	13° ≏ 11'37		evening set	2647 Oct 19 21:42	11°ML07'26	
opposition	2641 Mar 31 20:48	11° ≏ 09'04	0°45'14	max. Earth dist.	2647 Nov 04 11:47	12°ML05'48	19.45462 AU
min. Earth dist.	2641 Apr 01 15:29	11° ≏ 07'02	17.27166 AU				
direct	2641 Jun 16 04:13	9° ഫ 02'32		conjunction	2647 Nov 05 00:57	12°ML07'52	0°25'36
evening set	2641 Sep 20 06:56	12° £ 33'25		minimum elong	2647 Nov 05 00:57	12°ML07'52	0°25'37
<i>3</i>	-г	32 -0		morning rise	2647 Nov 21 00:39	13°ML07'48	
conjunction	2641 Oct 06 16:43	13° ≏ 35'08	0°39'46		2647 Dec 24 13:57	15°M	
·	2641 Oct 06 16:43	13° ⊆ 35'08	0°39'46	retrograda		16°M28'07	
minimum elong				retrograde	2648 Feb 20 03:47		
max. Earth dist.	2641 Oct 05 19:19		19.27776 AU	*.*	2648 Apr 21 04:51	15°RM	0026:52
morning rise	2641 Oct 22 22:54	14° £ 36'19		opposition	2648 May 04 09:36	14°M26'39	
retrograde	2642 Jan 22 10:11	17° ≙ 58'57		min. Earth dist.	2648 May 04 21:11		17.47623 AU
opposition	2642 Apr 05 22:32	15° ≏ 56'33		direct	2648 Jul 20 08:33	12°M21'29	
min. Earth dist.	2642 Apr 06 16:12	15° ≏ 54'38	17.28603 AU		2648 Oct 10 03:37	15° M ₊	
direct	20:2:1p: 00 10:12						
	2642 Jun 21 09:11	13° ≙ 50'10		evening set	2648 Oct 23 21:32	15° M ₊49'03	
evening set	•	13° ♀ 50'10 17° ♀ 20'57		evening set	2648 Oct 23 21:32	15° M 49'03	
evening set	2642 Jun 21 09:11			evening set conjunction	2648 Oct 23 21:32 2648 Nov 08 23:41	15°M49'03 16°M49'12	0°22'34
evening set	2642 Jun 21 09:11		0°38'00	-			

max. Earth dist.	2648 Nov 08 11:54	16° M .47'21	19.49865 AU	evening set	2654 Nov 20 23:09	13° ∡ '21'30	
morning rise	2648 Nov 24 22:29	17°ML48'52	17.17000110	evening sec	20011101 20 20.09	13 7. 2130	
retrograde	2649 Feb 24 02:32	21°ML08'36		conjunction	2654 Dec 06 19:25	14° х 19'49	0°02'25
opposition	2649 May 09 10:33	19° M .07'16	0°23'24	minimum elong	2654 Dec 06 19:25	14° √ 19'49	0°02'26
min. Earth dist.	2649 May 09 19:46	19° M .06'17	17.52195 AU	behind sun begin	2654 Dec 06 12:51	14° ∡ °18'49	
direct	2649 Jul 25 12:31	17°M02'20		behind sun end	2654 Dec 07 02:00	14° ∡ °20'48	
evening set	2649 Oct 28 20:21	20°M29'00		max. Earth dist.	2654 Dec 06 19:18		19.84232 AU
8				morning rise	2654 Dec 22 13:32	15° ∡ 17'48	
conjunction	2649 Nov 13 21:29	21°M28'52	0°19'23	retrograde	2655 Mar 23 22:38	18° ∡ ³33'49	
minimum elong	2649 Nov 13 21:30	21°M28'52	0°19'24	opposition	2655 Jun 07 07:11	16° х 33′24	0°00'43
max. Earth dist.	2649 Nov 13 11:48		19.54627 AU	min. Earth dist.	2655 Jun 07 05:14		17.87628 AU
morning rise	2649 Nov 29 19:17	22°M28'16		desc. node	2655 Aug 15 06:28	14° ∡ ³32'19	
retrograde	2650 Feb 28 22:14	25°M47'24		direct	2655 Aug 23 13:57	14° ∡ ³30'34	
opposition	2650 May 14 11:24	23°M46'10	0°19'47	evening set	2655 Nov 25 15:54	17° ∡ 50'40	
min. Earth dist.	2650 May 14 19:59		17.57148 AU	<i>8</i>			
direct	2650 Jul 30 13:08	21°M41'30		conjunction	2655 Dec 11 11:33	18° ∡ °48'40	-0°01'09
evening set	2650 Nov 02 18:02	25°ML07'10		minimum elong	2655 Dec 11 11:33	18° ≯ ¹48'40	0°01'09
				behind sun begin	2655 Dec 11 04:59	18° ₹ '47'41	
conjunction	2650 Nov 18 18:04	26°ML06'43	0°16'06	behind sun end	2655 Dec 11 18:07	18° × ⁷ 49'39	
minimum elong	2650 Nov 18 18:04	26°ML06'43	0°16'06	max. Earth dist.	2655 Dec 11 14:25		19.91117 AU
behind sun begin	2650 Nov 18 17:34	26°M06'39	0 10 00	morning rise	2655 Dec 27 04:57	19°×746'22	17.71117 110
behind sun end	2650 Nov 18 18:35	26°M06'48		retrograde	2656 Mar 27 15:21	23°×701'45	
max. Earth dist.	2650 Nov 18 09:50		19.59783 AU	opposition	2656 Jun 11 04:45	21°×701'34	0°02'07
	2650 Dec 04 15:07	20 11L0527 27°11L05'51	19.39763 AU	min. Earth dist.	2656 Jun 11 04:43		17.94597 AU
morning rise	2651 Feb 03 23:01	27 IICUS 31 0° ⊀ 7		direct		18° х 59'11	17.94397 AU
					2656 Aug 27 11:34		
retrograde	2651 Mar 05 19:40	0° ⊀ 24'22		evening set	2656 Nov 29 07:57	22° ⊀ 18′05	
•,•	2651 Apr 05 08:08	30°RM	0017104		2656 D 15 02 40	220 715146	0004127
opposition	2651 May 19 11:35	28°M23'15	0°16'04	conjunction	2656 Dec 15 02:40	23° 🖈 15'46	
min. Earth dist.	2651 May 19 17:19		17.62492 AU	minimum elong	2656 Dec 15 02:39	23°×15'46	0°04'3/
direct	2651 Aug 04 15:47	26°M18'51		behind sun begin	2656 Dec 14 20:13	23° ∡ 14'48	
evening set	2651 Nov 07 14:45	29°M43'28		behind sun end	2656 Dec 15 09:05	23°×16'44	10.00160.111
	2651 Nov 12 02:44	0° ∡ ¹		max. Earth dist.	2656 Dec 15 06:15		19.98160 AU
				morning rise	2656 Dec 30 19:40	24° ₹ 13'11	
conjunction	2651 Nov 23 13:54	0° ∡ ¹42'44	0°12'45	retrograde	2657 Apr 01 08:02	27° ₹ 27'58	
minimum elong	2651 Nov 23 13:54	0° ∡ ¹42'44	0°12'45	opposition	2657 Jun 16 01:38	25° ₹ 27'59	
behind sun begin	2651 Nov 23 09:42	0° ≯ 42'06		min. Earth dist.	2657 Jun 15 20:19		18.01695 AU
behind sun end	2651 Nov 23 18:06	0° ≯ 43'22		direct	2657 Sep 01 08:37	23° ≯ 26′03	
max. Earth dist.	2651 Nov 23 08:23		19.65324 AU	evening set	2657 Dec 03 22:59	26° ≯ 43'44	
morning rise	2651 Dec 09 10:00	1° ≯ 41'35					
retrograde	2652 Mar 09 14:19	4° ₹ 759'27		conjunction	2657 Dec 19 17:08	27° ҂ ¹41'06	-0°07'59
opposition	2652 May 23 11:15	2° ₹ 58'28	0°12'17	minimum elong	2657 Dec 19 17:08	27° ҂ ¹41'06	0°07'59
min. Earth dist.	2652 May 23 16:09	2° ₹ '57'57	17.68236 AU	behind sun begin	2657 Dec 19 11:15	27° ∡ ¹40'14	
direct	2652 Aug 08 15:05	0° ∡ 754'24		behind sun end	2657 Dec 19 23:01	27° ∡ ¹41'59	
evening set	2652 Nov 11 10:37	4° ∡ 17'57		max. Earth dist.	2657 Dec 19 23:33	27° ∡ ¹42'04	20.05287 AU
				morning rise	2658 Jan 04 09:31	28° ₹ 38'15	
conjunction	2652 Nov 27 08:41	5° ∡ 16'53	0°09'20		2658 Jan 28 17:05	o°ප	
minimum elong	2652 Nov 27 08:40	5° ∡ 16'53	0°09'20	retrograde	2658 Apr 05 23:42	1° る 52'24	
behind sun begin	2652 Nov 27 03:07	5° ≯ 16′03			2658 Jun 17 22:19	30°₽ ⋌ 7	
behind sun end	2652 Nov 27 14:14	5° ∡ 17'44		opposition	2658 Jun 20 22:03	29° ⋌ ¹52'38	-0°10'39
max. Earth dist.	2652 Nov 27 04:26	5° ∡ 16'15	19.71273 AU	min. Earth dist.	2658 Jun 20 15:40	29° ⋌ ¹53'17	18.08834 AU
morning rise	2652 Dec 13 04:08	6° ∡ 15'27		direct	2658 Sep 06 04:32	27° ҂ 751′08	
retrograde	2653 Mar 14 10:24	9° ∡ ³32'42			2658 Nov 18 16:00	8°0	
opposition	2653 May 28 10:26	7° ∡ ³31'52	0°08'26	evening set	2658 Dec 08 13:11	1° る 07'35	
min. Earth dist.	2653 May 28 12:18	7° ∡ ³31'41	17.74370 AU				
direct	2653 Aug 13 16:14	5° ∡ ¹28'11		conjunction	2658 Dec 24 06:33	2° る 04'38	-0°11'18
evening set	2653 Nov 16 05:16	8° ∡ 750'36		minimum elong	2658 Dec 24 06:32	2° る 04'38	0°11'18
				behind sun begin	2658 Dec 24 01:40	2°る03'55	
conjunction	2653 Dec 02 02:33	9° × 749'14	0°05'54	behind sun end	2658 Dec 24 11:24	2° ප 05'21	
minimum elong	2653 Dec 02 02:33	9° ,7 49'14	0°05'53	max. Earth dist.	2658 Dec 24 13:26	2° る 05'40	20.12421 AU
behind sun begin	2653 Dec 01 20:15	9° ∡ ¹48'17		morning rise	2659 Jan 08 22:44	3° ප 01'31	
behind sun end	2653 Dec 02 08:51	9° ∡ 750'11		retrograde	2659 Apr 10 15:16	6° る 15'02	
max. Earth dist.	2653 Dec 02 01:22		19.77588 AU	opposition	2659 Jun 25 17:42	4°る15'27	-0°14'18
morning rise	2653 Dec 17 21:08	10° ∡ ¹47'30		min. Earth dist.	2659 Jun 25 09:27		18.15951 AU
retrograde	2654 Mar 19 04:06	14° ∡ °04′08		direct	2659 Sep 10 23:25	2°る14'21	=-
opposition	2654 Jun 02 09:14	12° ∡ °03'30	0°04'35	evening set	2659 Dec 13 02:29	5° る 29'34	
min. Earth dist.	2654 Jun 02 10:02		17.80851 AU		v=.=/		
direct	2654 Aug 18 14:52	10°×700'14		conjunction	2659 Dec 28 19:26	6° පි 26'19	-0°14'32
	100 10 11.02	7. 50 17				. 02017	

minimum elong	2659 Dec 28 19:26	6° පි 26'19	0°14'32	morning rise	2666 Feb 06 22:28	2°≈50'52	
behind sun begin	2659 Dec 28 16:24	6° る 25'52		retrograde	2666 May 10 09:22	6° ≈ 00'11	
behind sun end	2659 Dec 28 22:29	6° ප 26'46		opposition	2666 Jul 26 14:39	4° ≈ 01'08	-0°35'51
max. Earth dist.	2659 Dec 29 04:47	6° る 27'44	20.19487 AU	min. Earth dist.	2666 Jul 25 21:11	4°≈02'54	18.61610 AU
morning rise	2660 Jan 13 11:07	7° る 22'56		direct	2666 Oct 11 12:58	2° ≈ 02'16	
retrograde	2660 Apr 14 05:29	10° る 35'49		evening set	2667 Jan 10 23:50	5° ≈ 09'06	
opposition	2660 Jun 29 12:35	8° る 36'23	-0°17'50				
min. Earth dist.	2660 Jun 29 03:18	8° る 37'20	18.22956 AU	conjunction	2667 Jan 26 14:34	6° ≈ 04'04	-0°33'28
direct	2660 Sep 14 17:27	6° ප 35'41		minimum elong	2667 Jan 26 14:33	6° ≈ 04'04	0°33'28
evening set	2660 Dec 16 15:07	9° る 49'39		max. Earth dist.	2667 Jan 27 08:22	6° ≈ 06'42	20.64573 AU
		_		morning rise	2667 Feb 11 06:09	6° ≈ 59'08	
conjunction	2661 Jan 01 07:23	10° ろ 46'07		retrograde	2667 May 14 19:42	10° ≈ 08′00	
minimum elong	2661 Jan 01 07:23	10°る46'07		min. Earth dist.	2667 Jul 30 10:14		18.67519 AU
max. Earth dist.	2661 Jan 01 16:57		20.26424 AU	opposition	2667 Jul 31 04:24	8°≈09'01	-0°38'11
morning rise	2661 Jan 16 22:59	11°る42'28		direct	2667 Oct 15 23:39	6°≈10'28	
retrograde	2661 Apr 18 20:03	14° る 54'44	0021115	evening set	2668 Jan 15 06:43	9° ≈ 16'18	
opposition	2661 Jul 04 06:56	12°る55'25	-0°21′15 18.29823 AU	. ,.	2669 1 20 21 24	10011104	0025120
min. Earth dist. direct	2661 Jul 03 20:10	12° る 55'02	18.29823 AU	conjunction minimum elong	2668 Jan 30 21:34 2668 Jan 30 21:34	10°≈11'04 10°≈11'04	
evening set	2661 Sep 19 10:40 2661 Dec 21 02:32	10 3 3302 14° る 07'46		max. Earth dist.	2668 Jan 31 17:25		20.70380 AU
evening set	2001 Dec 21 02.32	14 00/40		morning rise	2668 Feb 15 13:14	10 ≈13 39 11°≈05'58	20.70380 AU
conjunction	2662 Jan 05 18:32	15° る 03'57	-0°20'41	retrograde	2668 May 18 06:26	11 ≈03 38 14°≈14'23	
minimum elong	2662 Jan 05 18:33	15°る03'57		opposition	2668 Aug 03 17:22	12°≈15'31	-0°40'19
max. Earth dist.	2662 Jan 06 06:29		20.33197 AU	min. Earth dist.	2668 Aug 02 21:36		18.73211 AU
morning rise	2662 Jan 21 09:49	16°る00'03	20.55177110	direct	2668 Oct 19 12:09	10°≈17'18	10.75211110
retrograde	2662 Apr 23 09:17	19° る 11'41		evening set	2669 Jan 18 13:14	13° ≈ 22'11	
opposition	2662 Jul 09 00:31	17° る 12'28	-0°24'31	evening sec	2009 0411 10 13.11	13 14 22 11	
min. Earth dist.	2662 Jul 08 12:29		18.36500 AU	conjunction	2669 Feb 03 03:59	14° ≈ 16'46	-0°37'20
direct	2662 Sep 24 03:19	15° る 12'25		minimum elong	2669 Feb 03 03:59	14°≈16'46	0°37'19
evening set	2662 Dec 25 13:20	18° る 23'53		max. Earth dist.	2669 Feb 04 00:03	14° ≈ 19'43	20.75953 AU
•					2669 Feb 15 11:58	15° ≈	
conjunction	2663 Jan 10 04:50	19° る 19'47	-0°23'34	morning rise	2669 Feb 18 20:05	15° ≈ 11'32	
minimum elong	2663 Jan 10 04:49	19° る 19'47	0°23'34	retrograde	2669 May 22 16:24	18° ≈ 19'35	
max. Earth dist.	2663 Jan 10 17:03	19° る 21'37	20.39785 AU	min. Earth dist.	2669 Aug 07 09:56	16° ≈ 22'49	18.78664 AU
morning rise	2663 Jan 25 20:11	20° る 15'40		opposition	2669 Aug 08 05:59	16° ≈ 20'48	-0°42'14
retrograde	2663 Apr 27 22:13	23° る 26'41			2669 Sep 14 06:21	15°R ≈	
opposition	2663 Jul 13 17:08	21° る 27'29	-0°27'38	direct	2669 Oct 23 21:04	14° ≈ 22'55	
min. Earth dist.	2663 Jul 13 04:00		18.43010 AU		2669 Dec 01 07:46	15° ≈	
direct	2663 Sep 28 18:31	19° る 27'44		evening set	2670 Jan 22 19:02	17° ≈ 26′54	
evening set	2663 Dec 29 23:03	22° る 37'59					
				conjunction	2670 Feb 07 10:04	18°≈21'20	
conjunction	2664 Jan 14 14:26	23° る 33'38		minimum elong	2670 Feb 07 10:04		0°38'59
minimum elong	2664 Jan 14 14:26	23° そ 33'38		max. Earth dist.	2670 Feb 08 07:51		20.81254 AU
max. Earth dist.	2664 Jan 15 04:59 2664 Jan 30 05:36	23° る 35°48 24° る 29'17	20.46203 AU	morning rise	2670 Feb 23 02:24	19°≈15'58	
morning rise retrograde	2664 May 01 10:28	24 3 2917 27° る 39'41		retrograde opposition	2670 May 27 02:29 2670 Aug 12 17:54	22°≈23'41 20°≈25'01	0942156
opposition	2664 Jul 17 09:01	27 3 3941 25° る 40'33	0°30'34	min. Earth dist.	2670 Aug 11 20:26		18.83798 AU
min. Earth dist.	2664 Jul 16 18:22		18.49344 AU	direct	2670 Oct 28 08:28	18°≈27'28	10.03770 AC
direct	2664 Oct 02 10:02	23°る42'05	10.47544 710	evening set	2671 Jan 27 00:46	21°≈30'36	
evening set	2665 Jan 02 08:04	26° ප් 50'08		evening sec	2071 3411 27 00.10	21 70 30 30	
5. J.	2000 tan 02 00.04	_0 _0000		conjunction	2671 Feb 11 15:50	22° ≈ 24'54	-0°40'25
conjunction	2665 Jan 17 23:01	27° る 45'32	-0°28'52	minimum elong	2671 Feb 11 15:50	22° ≈ 24'54	
minimum elong	2665 Jan 17 23:01	27° る 45'32		max. Earth dist.	2671 Feb 12 13:27		20.86205 AU
max. Earth dist.	2665 Jan 18 14:05	27° る 47'46	20.52461 AU	morning rise	2671 Feb 27 08:42	23° ≈ 19′25	
morning rise	2665 Feb 02 14:21	28° る 40'58		retrograde	2671 May 31 12:13	26° ≈ 26'51	
	2665 Feb 26 18:00	0° ≈		min. Earth dist.	2671 Aug 16 08:04	24° ≈ 30′22	18.88568 AU
retrograde	2665 May 05 21:51	1° ≈ 50'49		opposition	2671 Aug 17 05:13	24° ≈ 28'15	-0°45'24
	2665 Jul 18 13:58	30°Rる		direct	2671 Nov 01 16:08	22° ≈ 31′00	
min. Earth dist.	2665 Jul 21 08:33	29° る 53'18	18.55549 AU	evening set	2672 Jan 31 06:00	25° ≈ 33'23	
opposition	2665 Jul 22 00:17	29° る 51'42	-0°33'18				
direct	2665 Oct 06 23:02	27° る 52'32		conjunction	2672 Feb 15 21:27	26° ≈ 27'33	-0°41'39
	2665 Dec 19 11:49	0° ≈		minimum elong	2672 Feb 15 21:27	26° ≈ 27'33	
evening set	2666 Jan 06 16:15	1° ≈ 00'27		max. Earth dist.	2672 Feb 16 20:16		20.90762 AU
				morning rise	2672 Mar 02 14:38	27°≈21'59	
conjunction	2666 Jan 22 07:12	1°≈55'37		_	2672 Apr 30 06:37	0°) {	
minimum elong	2666 Jan 22 07:12	1°≈55'37		retrograde	2672 Jun 03 21:26	0°) €29'09	
max. Earth dist.	2666 Jan 23 00:36	1~≈58′12	20.58592 AU		2672 Jul 09 07:36	30° ₹ ≈	

opposition	2672 Aug 20 16:04	28° ≈ 30'38	-0°46'39	minimum elong	2679 Mar 15 07:02	24°) 24'15	0°44'19
min. Earth dist.	2672 Aug 19 17:47		18.92899 AU	max. Earth dist.	2679 Mar 16 05:36		21.08709 AU
direct	2672 Nov 05 02:19	26° ≈ 33'39		morning rise	2679 Mar 31 05:01	25°) 18'31	
evening set	2673 Feb 03 11:00	29° ≈ 35'18		retrograde	2679 Jul 03 03:54	28°) €24'37	
C	2673 Feb 10 15:48	0° ₩		min. Earth dist.	2679 Sep 18 10:03	26°) €27'47	19.09189 AU
				opposition	2679 Sep 19 07:06	26°) 25'41	-0°48'42
conjunction	2673 Feb 19 02:35	0°) 29′22	-0°42'41	direct	2679 Dec 04 02:07	24°) € 29'22	
minimum elong	2673 Feb 19 02:35	0°) 29′22	0°42'41	evening set	2680 Mar 02 16:03	27°) €27'31	
max. Earth dist.	2673 Feb 20 00:58	0°) 32′37	20.94851 AU				
morning rise	2673 Mar 06 20:25	1° ¥ 23'44		conjunction	2680 Mar 18 11:37	28° ∺ 21′21	-0°43'50
retrograde	2673 Jun 08 06:33	4° ∺ 30'41		minimum elong	2680 Mar 18 11:37	28° ∺ 21′21	0°43'50
min. Earth dist.	2673 Aug 24 05:01	2°) 34′21	18.96751 AU	max. Earth dist.	2680 Mar 19 10:47	28°) € 24'40	21.09485 AU
opposition	2673 Aug 25 02:39	2°) 32′11	-0°47'40	morning rise	2680 Apr 03 10:18	29° ∺ 15'40	
direct	2673 Nov 09 09:32	0° ∺ 35'25			2680 Apr 17 01:51	0 ° Υ	
evening set	2674 Feb 07 15:44	3°) ₹36′25		retrograde	2680 Jul 06 12:17	2° Y 21'45	
				opposition	2680 Sep 22 14:27	0° Y 22'44	
conjunction	2674 Feb 23 07:51	4° ∺ 30'24		min. Earth dist.	2680 Sep 21 16:31		19.09772 AU
minimum elong	2674 Feb 23 07:51	4° ∺ 30′24			2680 Oct 02 03:05	30° ₹ ₩	
max. Earth dist.	2674 Feb 24 07:02		20.98439 AU	direct	2680 Dec 07 08:16	28° ∺ 26′27	
morning rise	2674 Mar 11 02:07	5°) 24'42			2681 Feb 07 14:49	0°Υ	
retrograde	2674 Jun 12 15:15	8° ∺ 31′26		evening set	2681 Mar 06 19:53	1° Y 24'22	
opposition	2674 Aug 29 12:27	6° ∺ 32'57					
min. Earth dist.	2674 Aug 28 13:57		19.00068 AU	conjunction	2681 Mar 22 16:04	2° Y 18'16	
direct	2674 Nov 13 18:21	4°) (36′21		minimum elong	2681 Mar 22 16:04	2°Υ18'16	
evening set	2675 Feb 11 20:20	7°) ₹36'43		max. Earth dist.	2681 Mar 23 14:26	-	21.09879 AU
				morning rise	2681 Apr 07 15:44	3° Y 12'38	
conjunction	2675 Feb 27 12:46	8° ∺ 30'38		retrograde	2681 Jul 10 18:32	6° Y 18'47	
minimum elong	2675 Feb 27 12:46	8°) € 30'38		opposition	2681 Sep 26 21:44	4° Υ 19'41	
max. Earth dist.	2675 Feb 28 11:10		21.01480 AU	min. Earth dist.	2681 Sep 26 01:03		19.09982 AU
morning rise	2675 Mar 15 07:49	9°) 24′54		direct	2681 Dec 11 12:08	2°Υ23'25	
retrograde	2675 Jun 16 22:54	12°) 31'27	0040150	evening set	2682 Mar 10 23:51	5° Y 21'11	
opposition min. Earth dist.	2675 Sep 02 21:59	10° ¥ 32'54	-0°48′58 19.02842 AU	:	2692 Mar. 26, 20.59	6° Ƴ 15'09	0942117
direct	2675 Sep 02 00:30 2675 Nov 18 01:05	8°\dagger 36'25	19.02842 AU	conjunction	2682 Mar 26 20:58 2682 Mar 26 20:59	6° Υ 15'09	
evening set	2676 Feb 16 00:28	8 ₹3623 11°¥36'13		minimum elong max. Earth dist.	2682 Mar 27 19:42		21.09903 AU
evening set	2070 100 10 00.28	11 //3013		morning rise	2682 Apr 11 21:26	7° Υ 09'36	21.09903 AU
conjunction	2676 Mar 02 17:32	12° ¥ 30′05	-0°44'29	retrograde	2682 Jul 15 03:10	10° Υ 15'50	
minimum elong	2676 Mar 02 17:32	12°\(\frac{1}{30}\)'05	0°44'29	min. Earth dist.	2682 Sep 30 07:16		19.09801 AU
max. Earth dist.	2676 Mar 03 16:40		21.03989 AU	opposition	2682 Oct 01 04:31	8° Υ 16'41	
morning rise	2676 Mar 18 13:07	13° ∺ 24'19	21.03707710	direct	2682 Dec 15 17:40	6° Υ 20'26	0 40 03
retrograde	2676 Jun 20 07:20	16°) € 30'42		evening set	2683 Mar 15 04:14	9° Υ 18'09	
min. Earth dist.	2676 Sep 05 08:31		19.05088 AU	overmig sec	2003 1/201 10 0 1.11	, 1100,	
opposition	2676 Sep 06 06:51	14°) 32′05		conjunction	2683 Mar 31 02:03	10° Y 12'12	-0°41'10
direct	2676 Nov 21 09:04	12°) 35′40		minimum elong	2683 Mar 31 02:03	10° Y 12'12	
evening set	2677 Feb 19 04:36	15°) 34′56		max. Earth dist.	2683 Mar 31 23:37	10° Ƴ 15'17	21.09518 AU
C				morning rise	2683 Apr 16 03:33	11° Υ 06'45	
conjunction	2677 Mar 06 22:04	16° ¥ 28'46	-0°44'39	retrograde	2683 Jul 19 10:11	14° Ƴ 13'08	
minimum elong	2677 Mar 06 22:04	16°) 28′46	0°44'40	opposition	2683 Oct 05 11:29	12° Υ 13'55	-0°44'46
max. Earth dist.	2677 Mar 07 20:34	16°) 32′00	21.05993 AU	min. Earth dist.	2683 Oct 04 15:49	12° Y 15′54	19.09209 AU
morning rise	2677 Mar 22 18:30	17° ¥ 23′00		direct	2683 Dec 19 21:10	10° Ƴ 17'41	
retrograde	2677 Jun 24 13:44	20° ∺ 29'15		evening set	2684 Mar 18 08:38	13° Y 15′25	
opposition	2677 Sep 10 15:28	18°) 30′31	-0°49'19				
min. Earth dist.	2677 Sep 09 18:10	18°) 32′39	19.06873 AU	conjunction	2684 Apr 03 07:26	14° Ƴ 09'35	-0°39'53
direct	2677 Nov 25 14:37	16°) 34′09		minimum elong	2684 Apr 03 07:26	14° Ƴ 09'35	0°39'54
evening set	2678 Feb 23 08:21	19°) 32′58		max. Earth dist.	2684 Apr 04 05:05		21.08715 AU
				morning rise	2684 Apr 19 09:43	15° Y 04'14	
conjunction	2678 Mar 11 02:36	20° ∺ 26'47	-0°44'35	retrograde	2684 Jul 22 19:16	18° Ƴ 10'49	
minimum elong	2678 Mar 11 02:36	20° ∺ 26'47		opposition	2684 Oct 08 18:15	16° Y 11'33	
max. Earth dist.	2678 Mar 12 01:53		21.07561 AU	min. Earth dist.	2684 Oct 07 22:16		19.08172 AU
morning rise	2678 Mar 26 23:41	21°) €21'01		direct	2684 Dec 23 02:55	14° Y 15'18	
retrograde	2678 Jun 28 22:07	24° ∺ 27'10		evening set	2685 Mar 22 13:43	17° Ƴ 13'09	
opposition	2678 Sep 14 23:28	22°) € 28′20					
min. Earth dist.	2678 Sep 14 01:16		19.08227 AU	conjunction	2685 Apr 07 13:16	18° Y 07'26	
direct	2678 Nov 29 21:45	20°) 32′00		minimum elong	2685 Apr 07 13:16	18° Y 07'26	
evening set	2679 Feb 27 12:18	23°) 30′26		max. Earth dist.	2685 Apr 08 09:29		21.07444 AU
	2670 M 15 07 02	2401/24117	0044110	morning rise	2685 Apr 23 16:37	19° Y 02'14	
conjunction	2679 Mar 15 07:02	24° ∺ 24'15	-0 44 19	retrograde	2685 Jul 27 02:56	22° Y 09′03	

retrograde opposition	2697 Sep 15 10:32 2697 Nov 30 20:31	10°II54'52 8°II53'47 -0°07'29	evening set	2703 May 12 14:44 2703 Jun 07 17:51	0°ഇ 1° ഇ 24'39	
min. Earth dist. direct	2697 Nov 30 17:39 2698 Feb 13 09:37	8°П54'05 18.54324 A) 6°П54'42	conjunction	2703 Jun 24 09:58	2° 5 23'28	0°11'22
evening set	2698 May 15 08:17	10° Ⅲ 00'02	minimum elong	2703 Jun 24 09:58	2° 9 23'28	0°11'21
e vennig sec	2090 1114 10 00:17	10 200 02	behind sun begin	2703 Jun 24 05:06	2°522'46	V 11-21
conjunction	2698 May 31 20:33	10° Ⅱ 57'18 -0°05'14	behind sun end	2703 Jun 24 14:50	2° 5 24'10	
minimum elong	2698 May 31 20:34	10° Ⅱ 57'18 0°05'14	max. Earth dist.	2703 Jun 24 02:41	2°522'24	20.17879 AU
behind sun begin	2698 May 31 14:03	10° Ⅲ 56′22	morning rise	2703 Jul 11 03:31	3° 5 22'31	
behind sun end	2698 Jun 01 03:04	10° Ⅲ 58′13	retrograde	2703 Oct 13 06:46	6° 5 38'07	
max. Earth dist.	2698 May 31 23:06	10° I 57′38 20.51317 A	U opposition	2703 Dec 27 16:24	4° © 36'10	0°14'24
morning rise	2698 Jun 17 11:32	11° Ⅱ 54'59	min. Earth dist.	2703 Dec 27 23:39		18.14302 AU
retrograde	2698 Sep 20 01:59	15° Ⅱ 07′28	direct	2704 Mar 11 07:37	2° © 34'47	
opposition	2698 Dec 05 06:10	13° I 06'16 -0°03'54	evening set	2704 Jun 11 12:59	5° © 46'58	
min. Earth dist.	2698 Dec 05 04:08	13° I 106'29 18.48207 A		2504 7 20 05 20	60016101	001.410.6
direct	2699 Feb 17 20:21	11° Ⅲ 06'53	conjunction	2704 Jun 28 05:38	6°5946'04	0°14'36
evening set	2699 May 19 22:42	14° Ⅱ 13'17	minimum elong	2704 Jun 28 05:38	6°5946'04	0°14'36
i	2600 Inn. 05 11.47	150 T 10151 0001150	behind sun begin	2704 Jun 28 03:00	6°545'41	
conjunction minimum elong	2699 Jun 05 11:47 2699 Jun 05 11:47	15°耳10'51 -0°01'58 15°耳10'51 0°01'57	behind sun end max. Earth dist.	2704 Jun 28 08:16 2704 Jun 27 19:50	6°546'27	20.10770 AU
behind sun begin	2699 Jun 05 05:03	15° Ц 09'54	morning rise	2704 Jul 27 19:30 2704 Jul 14 23:38	0 \$344 38 7°\$45'24	20.10770 AU
behind sun end	2699 Jun 05 18:32	15° Ⅱ 11'49	retrograde	2704 Jul 14 23:38 2704 Oct 17 00:48	11°901'36	
max. Earth dist.	2699 Jun 05 12:28	15° I 10'55 20.45075 A	- C	2704 Dec 31 05:42	8°959'28	0°17'58
morning rise	2699 Jun 22 03:22	16° I 108'49	min. Earth dist.	2704 Dec 31 03:42 2704 Dec 31 14:02		18.07199 AU
retrograde	2699 Sep 24 15:05	19° Д 21'56	direct	2705 Mar 15 22:37	6° 9 57'38	10.071777110
opposition	2699 Dec 09 16:41	17° Д 20'38 -0°00'16	evening set	2705 Jun 16 09:00	10°911'03	
min. Earth dist.	2699 Dec 09 17:10	17° Д 20'35 18.41846 А	•			
asc. node	2700 Jan 05 03:33	16° Ⅱ 17'16	conjunction	2705 Jul 03 02:17	11° © 10'28	0°17'47
direct	2700 Feb 22 05:06	15° Ⅲ 20′55	minimum elong	2705 Jul 03 02:17	11° © 10'28	0°17'47
evening set	2700 May 24 13:57	18° Ⅲ 28′25	max. Earth dist.	2705 Jul 02 15:33	11° © 08'53	20.03676 AU
			morning rise	2705 Jul 19 20:24	12° © 10'03	
conjunction	2700 Jun 10 03:53	19° Ⅲ 26'17 0°01'27	retrograde	2705 Oct 21 18:13	15° 5 26'52	
minimum elong	2700 Jun 10 03:52	19° Ⅱ 26'17 0°01'27	opposition	2706 Jan 04 19:48	13° 5 24'34	0°21'28
behind sun begin	2700 Jun 09 21:08	19° Ⅱ 25'19	min. Earth dist.	2706 Jan 05 05:52	13° 5 23'29	18.00145 AU
behind sun end	2700 Jun 10 10:37	19° Ⅱ 27'15	direct	2706 Mar 20 13:22	11° 5 22'17	
max. Earth dist.	2700 Jun 10 02:20	19° Д 26'07 20.38599 А	U evening set	2706 Jun 21 06:00	14° © 36'59	
morning rise	2700 Jun 26 20:07	20° Ⅱ 24'31				
retrograde	2700 Sep 29 07:41	23° I 38'16	conjunction	2706 Jul 07 23:35	15° © 36'41	0°20'52
opposition	2700 Dec 14 03:44	21° II 36'50 0°03'25	minimum elong	2706 Jul 07 23:35	15°936'41	0°20'52
min. Earth dist.	2700 Dec 14 05:15	21°耳36'40 18.35243 A) 19°耳36'45		2706 Jul 07 10:19		19.96682 AU
direct	2701 Feb 26 17:56	19°Щ3643 22°Щ45'22	morning rise retrograde	2706 Jul 24 17:59 2706 Oct 26 13:12	16° © 36'31 19° © 53'57	
evening set	2701 May 29 06:22	22 1143 22	opposition	2706 Oct 26 13.12 2707 Jan 09 10:28	19 \$33 37 17°\$51'30	0°24'51
conjunction	2701 Jun 14 21:05	23° I I43'34 0°04'47	min. Earth dist.	2707 Jan 09 10:28 2707 Jan 09 21:32		17.93235 AU
minimum elong	2701 Jun 14 21:06	23° I 43'34 0°04'46	direct	2707 Mar 25 05:42	15°548'47	17.95255 110
behind sun begin	2701 Jun 14 14:31	23° I I42'37	evening set	2707 Jun 26 03:46	19° 5 04'46	
behind sun end	2701 Jun 15 03:42	23° I I44'30	,			
max. Earth dist.	2701 Jun 14 17:42	23° Ⅲ 43′06 20.31868 A	U conjunction	2707 Jul 12 21:50	20°504'45	0°23'51
morning rise	2701 Jul 01 13:49	24° Ⅱ 42′04	minimum elong	2707 Jul 12 21:50	20° © 04'45	0°23'52
retrograde	2701 Oct 03 21:46	27° II 56'26	max. Earth dist.	2707 Jul 12 08:09	20°9502'42	19.89854 AU
opposition	2701 Dec 18 15:20	25° II 54'51 0°07'05	morning rise	2707 Jul 29 16:07	21° 5 04'50	
min. Earth dist.	2701 Dec 18 19:23	25° Ⅲ 54'25 18.28405 A	U retrograde	2707 Oct 31 08:18	24°9522'51	
direct	2702 Mar 03 04:42	23° Ⅱ 54′21	opposition	2708 Jan 14 01:56	22° © 20'18	0°28'07
evening set	2702 Jun 02 23:45	27° Ⅱ 04′08	min. Earth dist.	2708 Jan 14 14:14		17.86522 AU
		_	direct	2708 Mar 28 21:58	20° © 17'12	
conjunction	2702 Jun 19 15:10	28° I 102'38 0°08'05	evening set	2708 Jun 30 02:27	23° © 34'27	
minimum elong	2702 Jun 19 15:10	28° I 102'38 0°08'05		2700 1 1 6 20 41	240	000 (140
behind sun begin	2702 Jun 19 09:11	28° Ⅱ 01'46	conjunction	2708 Jul 16 20:41	24°534'43	0°26'43
behind sun end max. Earth dist.	2702 Jun 19 21:09 2702 Jun 19 09:14	28°П03'29 28°П01'46 20.24947 A	minimum elong U max. Earth dist.	2708 Jul 16 20:41	24°534'43	0°26'42 19.83268 AU
max. Earth dist.	2702 Jun 19 09:14 2702 Jul 06 08:27	28° I I 01'46 20.24947 A) 29° I I 01'25	max. Earth dist. morning rise	2708 Jul 16 04:33 2708 Aug 02 15:08	24°932'18 25°935'02	17.03200 AU
morning 1150	2702 Jul 06 08.27 2702 Jul 23 23:22	0°9	retrograde	2708 Aug 02 13:08 2708 Nov 04 04:53	23 \$33 02 28° \$53'41	
retrograde	2702 Jul 23 23:22 2702 Oct 08 15:09	2° © 16'23	opposition	2709 Jan 17 18:09	26°951'02	0°31'14
opposition	2702 Oct 08 13:09 2702 Dec 23 03:32	0°5014'37 0°10'46	min. Earth dist.	2709 Jan 17 18:09 2709 Jan 18 07:30		17.80079 AU
min. Earth dist.	2702 Dec 23 08:41	0°514'04 18.21405 A		2709 Apr 02 15:36	24°947'33	
	2702 Dec 28 21:31	30°RⅡ	evening set	2709 Jul 05 02:04	28°906'07	
direct	2703 Mar 07 18:45	28° Ⅱ 13'42	Č			

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conjunction	2709 Jul 21 20:40	29° 5 06'40	0°29'25	conjunction	2715 Aug 20 10:49	26° Ω 58'27	0°41'34
minimum elong	2709 Jul 21 20:40	29° 5 06'40	0°29'26	minimum elong	2715 Aug 20 10:49	26° Ω 58'27	0°41'34
max. Earth dist.	2709 Jul 21 04:23	29° © 04'12	19.76959 AU	morning rise	2715 Sep 06 02:26	27° Ω 59'56	
	2709 Aug 05 14:17	$0^{\circ}\Omega$			2715 Oct 12 21:12	0° ™	
morning rise	2709 Aug 07 14:49	0° Ω 07'12		retrograde	2715 Dec 07 19:09	1° Mp 22'06	
retrograde	2709 Nov 09 01:50	3° Ω 26′25			2716 Feb 03 14:41	30°R Ω	
opposition	2710 Jan 22 11:02	1° Ω 23'44		opposition	2716 Feb 19 09:11	29° Ω 19'20	
min. Earth dist.	2710 Jan 23 01:18		17.73920 AU	min. Earth dist.	2716 Feb 20 05:02		17.43260 AU
1.	2710 Feb 26 18:24	30°R≌		direct	2716 May 04 18:17	27° Ω 13'52	
direct	2710 Apr 07 09:19	29° © 19'56			2716 Jul 27 11:29	0° M)	
avaning got	2710 May 16 10:48 2710 Jul 10 02:44	0° Ω 2° Ω 39'49		evening set	2716 Aug 07 21:47	0° Mp 40′37	
evening set	2/10 Jul 10 02.44	2 66 3949		conjunction	2716 Aug 24 15:01	1° m/42'30	0°42'44
conjunction	2710 Jul 26 21:15	3° Ω 40'36	0°31'58	minimum elong	2716 Aug 24 15:01	1° m/ 42'30	0°42'43
minimum elong	2710 Jul 26 21:15	3° Ω 40'36		max. Earth dist.	2716 Aug 23 14:11		19.41179 AU
max. Earth dist.	2710 Jul 26 02:34		19.70960 AU	morning rise	2716 Sep 10 05:57	2° m/44'05	-,,,,,,,,,
morning rise	2710 Aug 12 15:21	4° Ω 41'21		retrograde	2716 Dec 11 17:54	6° m 06'32	
retrograde	2710 Nov 14 00:04	8° Ω 01′10		opposition	2717 Feb 23 07:26	4° Mp 03'44	0°48'09
opposition	2711 Jan 27 04:50	5° Ω 58′28	0°36'55	min. Earth dist.	2717 Feb 24 04:51	4° m) 01'23	17.39275 AU
min. Earth dist.	2711 Jan 27 20:22	5° Ω 56'47	17.68088 AU	direct	2717 May 09 18:27	1° m 57'59	
direct	2711 Apr 12 04:13	3° £ 54′22		evening set	2717 Aug 13 02:49	5° m 25'37	
evening set	2711 Jul 15 03:54	7° Ω 15'32					
				conjunction	2717 Aug 29 19:32	6° Mg 27′35	0°43'36
conjunction	2711 Jul 31 22:35	8° Ω 16'34		minimum elong	2717 Aug 29 19:32	6° Mg 27′35	
minimum elong	2711 Jul 31 22:35	8° Ω 16'34		max. Earth dist.	2717 Aug 28 18:22	~	19.37405 AU
max. Earth dist.	2711 Jul 31 03:56		19.65272 AU	morning rise	2717 Sep 15 09:42	7° m 29'13	
morning rise	2711 Aug 17 16:14	9° Ω 17'30		retrograde	2717 Dec 16 18:39	10° m 51'54	0040150
retrograde	2711 Nov 18 22:29	12° Ω 37'53	0920127	opposition	2718 Feb 28 06:03	8° Mp 49'03	0°48'58
opposition min. Earth dist.	2712 Jan 31 23:22 2712 Feb 01 15:34	10° Ω 35'12	17.62547 AU	min. Earth dist. direct	2718 Mar 01 02:56	6° Mp 43'03	17.35722 AU
direct	2712 Feb 01 13:34 2712 Apr 15 23:51	8° Ω 30'49	17.02347 AU	evening set	2718 May 14 21:34 2718 Aug 18 08:04	10° M) 11'27	
evening set	2712 Apr 13 23:31 2712 Jul 19 06:15	11° Ω 53'14		max. Earth dist.	2718 Sep 02 22:49		19.34087 AU
max. Earth dist.	2712 Aug 04 03:40		19.59872 AU	max. Earth dist.	2710 Sep 02 22.49	11 11/0752	17.54007 710
	_,,	000		conjunction	2718 Sep 04 00:10	11° m) 13'30	0°44'10
conjunction	2712 Aug 05 00:42	12° Ω 54'29	0°36'30	minimum elong	2718 Sep 04 00:10	11° m) 13'30	0°44'09
minimum elong	2712 Aug 05 00:41	12° Ω 54'29	0°36'30	morning rise	2718 Sep 20 13:24	12° m 15'09	
morning rise	2712 Aug 21 18:06	13° Ω 55'36		retrograde	2718 Dec 21 17:46	15° m)38'01	
	2712 Sep 09 10:36	15° Ω		opposition	2719 Mar 05 05:26	13° m 35'08	0°49'26
retrograde	2712 Nov 22 21:20	17° Ω 16'31		min. Earth dist.	2719 Mar 06 03:28	13° m 32'43	17.32672 AU
opposition	2713 Feb 04 18:41	15° Ω 13'49		direct	2719 May 19 22:30	11° M 28'54	
min. Earth dist.	2713 Feb 05 12:32		17.57300 AU	evening set	2719 Aug 23 13:15	14° m 57'57	
	2713 Feb 10 01:26	15°R Ω		max. Earth dist.	2719 Sep 08 03:03	15° m 56'01	19.31314 AU
direct	2713 Apr 20 20:14	13° Ω 09'10			2510.0	1.00 00 00100	00449
	2713 Jun 26 17:40	15° Ω		conjunction minimum elong	2719 Sep 09 04:37	16° Mp 00'02	
evening set max. Earth dist.	2713 Jul 24 09:15	16° Ω 32'47	19.54753 AU	morning rise	2719 Sep 09 04:37 2719 Sep 25 17:06	16° Mp 00'02 17° Mp 01'42	0°44'26
max. Earm dist.	2713 Aug 09 06:21	1/ 66303/	19.54/33 AU	retrograde	2719 Sep 23 17.06 2719 Dec 26 19:16	20° Mg 24'41	
conjunction	2713 Aug 10 03:40	17° Ω 34'14	0°38'26	opposition	2720 Mar 09 05:06	18° M) 21'46	0°49'34
minimum elong	2713 Aug 10 03:39	17° Ω 34'14		min. Earth dist.	2720 Mar 10 02:06		17.30181 AU
morning rise	2713 Aug 26 20:28	18° £ 35'30		direct	2720 May 24 02:16	16° m) 15'20	
retrograde	2713 Nov 27 20:42	21° Ω 56'53		evening set	2720 Aug 27 18:36	19° m 44'57	
opposition	2714 Feb 09 14:48	19° Ω 54'11	0°43'47	max. Earth dist.	2720 Sep 12 08:34	20° m 43'10	19.29114 AU
min. Earth dist.	2714 Feb 10 09:02	19° Ω 52'11	17.52315 AU				
direct	2714 Apr 25 18:48	17° Ω 49'16		conjunction	2720 Sep 13 09:18	20° Mp 47° 02	0°44'23
evening set	2714 Jul 29 12:58	21° Ω 14′00		minimum elong	2720 Sep 13 09:18	20° Mp 47° 02	0°44'22
max. Earth dist.	2714 Aug 14 07:37	22° Ω 12'01	19.49901 AU	morning rise	2720 Sep 29 20:41	21°Mp48'41	
				retrograde	2720 Dec 30 19:00	25° Mp 11'43	
conjunction	2714 Aug 15 06:56	22° Ω 15'37		opposition	2721 Mar 14 05:16	23° Mp 08'49	
minimum elong	2714 Aug 15 06:56	22° Ω 15'37	0°40'08	min. Earth dist.	2721 Mar 15 03:00		17.28300 AU
morning rise	2714 Aug 31 23:13	23° Ω 17'01		direct	2721 May 29 03:59	21° Mp 02'14	
retrograde opposition	2714 Dec 02 19:13	26° \Omega 38'49 24° \Omega 36'05	0045122	evening set	2721 Sep 02 00:02	24° m 32'19	
min. Earth dist.	2715 Feb 14 11:46 2715 Feb 15 07:40		17.47626 AU	conjunction	2721 Sep 18 13:45	25° m/34'23	0°44'01
direct	2715 Apr 30 17:07	24 δ(33 33 22° Ω 30'54	17.77020 AU	minimum elong	2721 Sep 18 13:45 2721 Sep 18 13:45	25° m) 34'23	0°44'01
evening set	2715 Apr 30 17:07 2715 Aug 03 17:07	25° Ω 56'41		max. Earth dist.	2721 Sep 17 12:48		19.27565 AU
max. Earth dist.	2715 Aug 19 11:14		19.45368 AU	morning rise	2721 Oct 05 00:16	26° m/36'00	
	5		-	retrograde	2722 Jan 04 20:31	29° m 59'02	

2734 Nov 20 07:18

2734 Nov 20 07:18

conjunction

minimum elong

2728 Oct 22 12:55

conjunction

29°**2**06'40 0°33'24

27°M18'54 0°15'35

0°15'35

27°M18'54

behind sun begin	2734 Nov 20 05:32	27° M 18'38		morning rise	2739 Dec 28 18:37	20° ₹ 59'26	
behind sun end	2734 Nov 20 09:04	27° M 19'11		retrograde	2740 Mar 29 04:28	24° ≯ 14'52	
max. Earth dist.	2734 Nov 19 23:15	27°M17'40	19.59063 AU	opposition	2740 Jun 12 18:14	22° ҂ 14'40	
morning rise	2734 Dec 06 04:24	28°M18'04		min. Earth dist.	2740 Jun 12 15:30		17.94051 AU
	2735 Jan 05 11:20	0° ∡ ¹		direct	2740 Aug 29 00:36	20° ≯ 12'15	
retrograde	2735 Mar 07 09:12	1° ∡ 736′39		evening set	2740 Nov 30 21:45	23° ∡ ³31′13	
	2735 May 11 07:12	30°RM₊				=	
opposition	2735 May 21 00:45	29°M35'29	0°15'28	conjunction	2740 Dec 16 16:29	24° ₹ 28'55	
min. Earth dist.	2735 May 21 06:20		17.61797 AU	minimum elong	2740 Dec 16 16:29	24° ₹ 28'55	0°05'14
direct	2735 Aug 06 04:33	27°M31'02		behind sun begin	2740 Dec 16 10:08	24° ₹ 27'58	
	2735 Oct 24 08:11	0° ∡ 7		behind sun end	2740 Dec 16 22:51	24° 🖈 29'52	10.07507 444
evening set	2735 Nov 09 03:57	0° ∡ 755'45		max. Earth dist.	2740 Dec 16 19:51		19.97587 AU
. ,.	2725 31 25 02 10	10 755102	0012112	morning rise	2741 Jan 01 09:33	25° ₹ 26'22	
conjunction	2735 Nov 25 03:10	1° 🖈 55'03	0°12'12	retrograde	2741 Apr 02 22:33	28° 🗷 41'10	0007127
minimum elong	2735 Nov 25 03:09	1° 🖈 55'02	0°12'12	opposition	2741 Jun 17 15:16	26° ₹ 41'10	
behind sun begin behind sun end	2735 Nov 24 22:40 2735 Nov 25 07:38	1° х 54′22 1° х 55′43		min. Earth dist. direct	2741 Jun 17 10:09	24° × '41'41	18.01086 AU
	2735 Nov 24 21:41		19.64657 AU		2741 Sep 02 22:06 2741 Dec 05 12:48	24 x ·39 10 27° x 56'55	
max. Earth dist.	2735 Nov 24 21:41 2735 Dec 10 23:20	2° 🖈 53'55	19.0403 / AU	evening set	2/41 Dec 05 12:48	2/° x '30'33	
morning rise	2736 Mar 11 03:38	2 x ·33 33 6° x 11'52		conjunction	2741 Dec 21 07:00	28° ₹ 54'18	0000126
retrograde opposition	2736 May 25 00:35	6 x ·11 32 4° x 10′52	0°11'40	minimum elong	2741 Dec 21 07:00 2741 Dec 21 07:00	28° 🖈 54'18	0°08'36
min. Earth dist.	2736 May 25 05:14		17.67604 AU	behind sun begin	2741 Dec 21 07:00 2741 Dec 21 01:15	28° 🖈 53'27	0 00 30
direct	2736 Aug 10 04:21	2° × 10 22	17.07004 AU	behind sun end	2741 Dec 21 01:13 2741 Dec 21 12:44	28° 🖈 55'10	
evening set	2736 Nov 12 23:49	5° ₹ 30′23		max. Earth dist.	2741 Dec 21 12:44 2741 Dec 21 13:06		20.04631 AU
evening set	2/30 NOV 12 23.49	3 X 30 23		morning rise	2741 Dec 21 13:00 2742 Jan 05 23:25	28 × 53 13 29° × 51'28	20.04031 AU
conjunction	2736 Nov 28 21:57	6° ₹ 29'22	0°08'46	morning risc	2742 Jan 08 08:51	29 × 31 28	
minimum elong	2736 Nov 28 21:57 2736 Nov 28 21:57	6° ₹ 29′22	0°08'46	retrograde	2742 Apr 07 13:20	3° ろ 05'39	
behind sun begin	2736 Nov 28 16:14	6°×728'30	0 00 40	opposition	2742 Apr 07 13:20 2742 Jun 22 11:47	1°る05'50	-0°11'21
behind sun end	2736 Nov 29 03:40	6°×730'14		min. Earth dist.	2742 Jun 22 05:49		18.08128 AU
max. Earth dist.	2736 Nov 28 17:52		19.70676 AU	mm. Latin dist.	2742 Jul 20 16:05	30°R <i>≯</i> 7	10.00120710
morning rise	2736 Dec 14 17:28	7°×727'57	17.70070710	direct	2742 Sep 07 18:07	29° х 04'15	
retrograde	2737 Mar 16 00:10	10° × ⁷ 45'17		uncer	2742 Oct 24 20:12	29 ਨ 04 13	
opposition	2737 May 29 23:44	8° × ⁷ 44'27	0°07'48	evening set	2742 Dec 10 03:14	2° පි 20'45	
min. Earth dist.	2737 May 30 01:22		17.73804 AU	· · · · · · · · · · · · · · · · · · ·	_,		
direct	2737 Aug 15 05:21	6° х 40'44	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	conjunction	2742 Dec 25 20:38	3°₹17'50	-0°11'55
evening set	2737 Nov 17 18:38	10° ₹ '03'15		minimum elong	2742 Dec 25 20:38	3° ප 17'50	0°11'55
8				behind sun begin	2742 Dec 25 16:02	3° ට 17'09	
conjunction	2737 Dec 03 15:59	11° ∡ *01'55	0°05'19	behind sun end	2742 Dec 26 01:15	3° ರ 18'31	
minimum elong	2737 Dec 03 15:59	11° ∡ *01'55	0°05'19	max. Earth dist.	2742 Dec 26 03:08	3° ⋜ 18'48	20.11657 AU
behind sun begin	2737 Dec 03 09:36	11° ∡ ¹00'57		morning rise	2743 Jan 10 12:51	4° ප 14'44	
behind sun end	2737 Dec 03 22:22	11° ∡ *02'53		retrograde	2743 Apr 12 05:41	7° る 28'17	
max. Earth dist.	2737 Dec 03 14:46	11° ∡ *01'45	19.77051 AU	opposition	2743 Jun 27 07:19	5° ⋜ 28'36	-0°14'59
morning rise	2737 Dec 19 10:39	12° ∡ 00'13		min. Earth dist.	2743 Jun 26 23:26	5° る 29'25	18.15128 AU
retrograde	2738 Mar 20 17:23	15° ∡ 16'55		direct	2743 Sep 12 13:15	3° る 27'24	
opposition	2738 Jun 03 22:34	13° ∡ 16'17	0°03'55	evening set	2743 Dec 14 16:36	6° ප 42'41	
min. Earth dist.	2738 Jun 03 23:18	13° ∡ 16′13	17.80334 AU				
direct	2738 Aug 20 03:55	11° ∡ 13′00		conjunction	2743 Dec 30 09:37	7° る 39'28	-0°15'09
evening set	2738 Nov 22 12:31	14° ∡ ³34'21		minimum elong	2743 Dec 30 09:36	7° る 39'28	0°15'09
				behind sun begin	2743 Dec 30 07:09	7° る 39'07	
conjunction	2738 Dec 08 08:53	15° ∡ 32'42	0°01'49	behind sun end	2743 Dec 30 12:04	7° る 39'50	
minimum elong	2738 Dec 08 08:53	15° ∡ 32'42	0°01'48	max. Earth dist.	2743 Dec 30 18:34		20.18601 AU
behind sun begin	2738 Dec 08 02:18	15° ∡ 31'42		morning rise	2744 Jan 15 01:20	8° ප 36'06	
behind sun end	2738 Dec 08 15:28	15° ∡ 33'41		retrograde	2744 Apr 15 19:30	11° る 49'00	
max. Earth dist.	2738 Dec 08 08:44	15° ∡ ³32'41	19.83724 AU	opposition	2744 Jul 01 02:22	9° る 49'29	-0°18'31
morning rise							
retrograde	2738 Dec 24 03:05	16° ₹ 30'42		min. Earth dist.	2744 Jun 30 17:33	9° ප් 50'23	18.22011 AU
opposition	2739 Mar 25 12:39	19° ∡ ¹46'47		direct	2744 Jun 30 17:33 2744 Sep 16 07:59	9° ප් 50'23 7° ප් 48'39	18.22011 AU
• •	2739 Mar 25 12:39 2739 Jun 08 20:39	19° ∡ 46'47 17° ∡ 46'22	0°00'03		2744 Jun 30 17:33	9° ප් 50'23	18.22011 AU
min. Earth dist.	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40	19° ₹ 46'47 17° ₹ 46'22 17° ₹ 46'34	0°00'03 17.87114 AU	direct evening set	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08	9°る50'23 7°る48'39 11°る02'40	
min. Earth dist. desc. node	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01	19° ₹ 46'47 17° ₹ 46'22 17° ₹ 46'34 17° ₹ 34'54		direct evening set conjunction	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28	9°る50'23 7°る48'39 11°る02'40 11°る59'10	-0°18'16
min. Earth dist. desc. node direct	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01 2739 Aug 25 03:25	19° ₹ 46'47 17° ₹ 46'22 17° ₹ 46'34 17° ₹ 34'54 15° ₹ 43'30		direct evening set conjunction minimum elong	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 02 21:28	9°ට 50'23 7°ට 48'39 11°ට 02'40 11°ට 59'10 11°ට 59'10	-0°18'16 0°18'15
min. Earth dist. desc. node	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01	19° ₹ 46'47 17° ₹ 46'22 17° ₹ 46'34 17° ₹ 34'54		direct evening set conjunction minimum elong max. Earth dist.	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 02 21:28 2745 Jan 03 06:44	9° ට 50'23 7° ට 48'39 11° ට 02'40 11° ට 59'10 11° ට 59'10 12° ට 00'33	-0°18'16
min. Earth dist. desc. node direct evening set	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01 2739 Aug 25 03:25 2739 Nov 27 05:30	19° ₹46'47 17° ₹46'22 17° ₹46'34 17° ₹34'54 15° ₹43'30 19° ₹03'41	17.87114 AU	direct evening set conjunction minimum elong max. Earth dist. morning rise	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 02 21:28 2745 Jan 03 06:44 2745 Jan 18 13:06	9°550'23 7°548'39 11°602'40 11°659'10 11°659'10 12°600'33 12°655'33	-0°18'16 0°18'15
min. Earth dist. desc. node direct evening set	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01 2739 Aug 25 03:25 2739 Nov 27 05:30 2739 Dec 13 01:13	19° ₹ 46'47 17° ₹ 46'22 17° ₹ 46'34 17° ₹ 34'54 15° ₹ 43'30 19° ₹ 03'41 20° ₹ 01'42	17.87114 AU -0°01'46	direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 03 06:44 2745 Jan 18 13:06 2745 Apr 20 09:59	9° ට 50'23 7° ට 48'39 11° ට 02'40 11° ට 59'10 11° ට 59'10 12° ට 00'33 12° ට 55'33 16° ට 07'50	-0°18'16 0°18'15 20.25424 AU
min. Earth dist. desc. node direct evening set conjunction minimum elong	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01 2739 Aug 25 03:25 2739 Nov 27 05:30 2739 Dec 13 01:13 2739 Dec 13 01:11	19° ₹ 46'47 17° ₹ 46'22 17° ₹ 46'34 17° ₹ 34'54 15° ₹ 43'30 19° ₹ 03'41 20° ₹ 01'42 20° ₹ 01'42	17.87114 AU	direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 02 21:28 2745 Jan 03 06:44 2745 Jan 18 13:06 2745 Apr 20 09:59 2745 Jul 05 20:40	9° ට 50'23 7° ට 48'39 11° ට 02'40 11° ට 59'10 11° ට 59'10 12° ට 00'33 12° ට 55'33 16° ට 07'50 14° ට 08'24	-0°18'16 0°18'15 20.25424 AU -0°21'55
min. Earth dist. desc. node direct evening set conjunction minimum elong behind sun begin	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01 2739 Aug 25 03:25 2739 Nov 27 05:30 2739 Dec 13 01:11 2739 Dec 13 1:11 2739 Dec 12 18:36	19° ₹46'47 17° ₹46'22 17° ₹46'34 17° ₹34'54 15° ₹43'30 19° ₹03'41 20° ₹01'42 20° ₹01'42 20° ₹00'43	17.87114 AU -0°01'46	direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 02 21:28 2745 Jan 03 06:44 2745 Jan 18 13:06 2745 Apr 20 09:59 2745 Jul 05 20:40 2745 Jul 05 10:08	9° 550'23 7° 548'39 11° 559'10 11° 559'10 12° 500'33 12° 555'33 16° 507'50 14° 508'24 14° 509'28	-0°18'16 0°18'15 20.25424 AU
min. Earth dist. desc. node direct evening set conjunction minimum elong	2739 Mar 25 12:39 2739 Jun 08 20:39 2739 Jun 08 18:40 2739 Jun 13 11:01 2739 Aug 25 03:25 2739 Nov 27 05:30 2739 Dec 13 01:13 2739 Dec 13 01:11	19° ₹46'47 17° ₹46'22 17° ₹46'34 17° ₹34'54 15° ₹43'30 19° ₹03'41 20° ₹01'42 20° ₹01'42 20° ₹00'43 20° ₹02'41	17.87114 AU -0°01'46	direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2744 Jun 30 17:33 2744 Sep 16 07:59 2744 Dec 18 05:08 2745 Jan 02 21:28 2745 Jan 02 21:28 2745 Jan 03 06:44 2745 Jan 18 13:06 2745 Apr 20 09:59 2745 Jul 05 20:40	9° ට 50'23 7° ට 48'39 11° ට 02'40 11° ට 59'10 11° ට 59'10 12° ට 00'33 12° ට 55'33 16° ට 07'50 14° ට 08'24	-0°18'16 0°18'15 20.25424 AU -0°21'55

conjunction minimum elong	2746 Jan 07 08:40 2746 Jan 07 08:40	16°පි16'53 16°පි16'53	0°21'16	retrograde	2752 Apr 16 00:48 2752 May 19 20:50	15° ≈ 15° ≈ 28'24	
max. Earth dist.	2746 Jan 07 20:28		20.32117 AU	· F d F	2752 Jun 23 14:04	15°R≈	10.70706 AU
morning rise	2746 Jan 22 23:59 2746 Apr 24 22:42	17°පි13'01 20°පි24'40		min. Earth dist.	2752 Aug 04 11:18		18.72796 AU
retrograde opposition	2746 Apr 24 22:42 2746 Jul 10 14:06	18° る 25'19	0°25'10	opposition direct	2752 Aug 05 07:14 2752 Oct 21 00:56	13°≈29'35 11°≈31'26	-0-404/
min. Earth dist.	2746 Jul 10 14:00 2746 Jul 10 02:23		18.35403 AU	evening set	2752 Oct 21 00:30 2753 Jan 20 03:23	11 ≈31 20 14°≈36'27	
direct	2746 Sep 25 17:57	16° පි 25'08	10.55405 710	evening set	2753 Jan 26 22:11	15° ≈	
evening set	2746 Dec 27 03:14	19° る 36'40			2700 000 20 22.11	10 .0.	
Č				conjunction	2753 Feb 04 18:09	15° ≈ 31'04	-0°37'44
conjunction	2747 Jan 11 18:48	20° る 32'36	-0°24'07	minimum elong	2753 Feb 04 18:09	15° ≈ 31'04	0°37'44
minimum elong	2747 Jan 11 18:48	20° る 32'36	0°24'07	max. Earth dist.	2753 Feb 05 14:19	15° ≈ 34′01	20.75599 AU
max. Earth dist.	2747 Jan 12 07:01	20° る 34'26	20.38687 AU	morning rise	2753 Feb 20 10:17	16° ≈ 25'52	
morning rise	2747 Jan 27 10:13	21° る 28'31		retrograde	2753 May 24 07:04	19° ≈ 34′02	
retrograde	2747 Apr 29 11:45	24° る 39'34		opposition	2753 Aug 09 19:58	17° ≈ 35'19	
opposition	2747 Jul 15 06:47	22° ⋜ 40'16		min. Earth dist.	2753 Aug 08 23:40		18.78362 AU
min. Earth dist.	2747 Jul 14 17:34		18.41929 AU	direct	2753 Oct 25 11:06	15°≈37'30	
direct	2747 Sep 30 08:33	20°₹40'23		evening set	2754 Jan 24 09:26	18° ≈ 41'36	
evening set	2747 Dec 31 12:56	23° る 50'43		conjunction	2754 Feb 09 00:28	19° ≈ 36'04	0°30'21
conjunction	2748 Jan 16 04:20	24° ♂ 46'24	-0°26'50	minimum elong	2754 Feb 09 00:28 2754 Feb 09 00:28	19°≈36'04	
minimum elong	2748 Jan 16 04:20	24°₹46′24		max. Earth dist.	2754 Feb 09 22:21		20.80996 AU
max. Earth dist.	2748 Jan 16 19:07		20.45152 AU	morning rise	2754 Feb 24 16:47	20°≈30'43	20.00770710
morning rise	2748 Jan 31 19:30	25° る 42'05		retrograde	2754 May 28 17:37	23° ≈ 38'32	
retrograde	2748 May 02 23:22	28° る 52'33		min. Earth dist.	2754 Aug 13 10:25	21° ≈ 42′03	18.83577 AU
opposition	2748 Jul 18 22:38	26° る 53'20	-0°31'09	opposition	2754 Aug 14 07:51	21° ≈ 39'55	-0°44'20
min. Earth dist.	2748 Jul 18 07:53	26° る 54'49	18.48347 AU	direct	2754 Oct 29 21:45	19° ≈ 42′24	
direct	2748 Oct 03 23:42	24° る 53'47		evening set	2755 Jan 28 15:15	22° ≈ 45'39	
evening set	2749 Jan 03 22:02	28° る 02'57					
		_		conjunction	2755 Feb 13 06:19	23° ≈ 39'58	
conjunction	2749 Jan 19 13:01	28° ⋜ 58'23		minimum elong	2755 Feb 13 06:19	23° ≈ 39'58	
minimum elong	2749 Jan 19 13:01	28°る58'23	0°29'22	max. Earth dist.	2755 Feb 14 03:53		20.86010 AU
max. Earth dist.	2749 Jan 20 04:17	29° ろ 00'39	20.51527 AU	morning rise	2755 Feb 28 23:11	24°≈34'31	
morning rise	2749 Feb 04 04:22 2749 Feb 05 22:48	29° ⊘ 33'31		retrograde opposition	2755 Jun 02 02:24 2755 Aug 18 19:25	27°≈42'00 25°≈43'27	0015116
retrograde	2749 May 07 11:40	0 ∞ 3°≈03'48		min. Earth dist.	2755 Aug 17 19:25 2755 Aug 17 22:14		18.88391 AU
opposition	2749 Jul 23 13:54	1°≈04'39	-0°33'51	direct	2755 Nov 03 06:36	23°≈46'13	10.00371710
min. Earth dist.	2749 Jul 22 21:49		18.54690 AU	evening set	2756 Feb 01 20:32	26°≈48'40	
	2749 Aug 20 18:40	30°Rる		<i>3</i>			
direct	2749 Oct 08 12:39	29° ප් 05'26		conjunction	2756 Feb 17 11:58	27° ≈ 42'51	-0°41'58
	2749 Nov 24 08:03	0° ≈		minimum elong	2756 Feb 17 11:57	27° ≈ 42'51	0°41'58
evening set	2750 Jan 08 06:08	2° ≈ 13′29		max. Earth dist.	2756 Feb 18 10:48	27° ≈ 46′10	20.90587 AU
				morning rise	2756 Mar 04 05:06	28° ≈ 37'17	
conjunction	2750 Jan 23 21:09	3°≈08'42		_	2756 Mar 30 06:06	0° ∀	
minimum elong	2750 Jan 23 21:09	3°≈08'42		retrograde	2756 Jun 05 12:29	1°) 44′29	
max. Earth dist.	2750 Jan 24 14:51		20.57809 AU	i in al li a	2756 Aug 16 09:28	30°R≈	10.02722 ATT
morning rise retrograde	2750 Feb 08 12:27 2750 May 11 22:47	4°≈03'58 7°≈13'25		min. Earth dist. opposition	2756 Aug 21 08:14 2756 Aug 22 06:21	29°≈48'11 29°≈45'59	18.92722 AU
min. Earth dist.	2750 Jul 27 10:40		18.60903 AU	direct	2756 Nov 06 16:36	27°≈48'59	-0 4038
opposition	2750 Jul 28 04:22	5°≈14'22		direct	2757 Jan 20 14:25	0° ∀	
direct	2750 Oct 13 01:47	3°≈15'31	0 30 22	evening set	2757 Feb 05 01:44	0°) 50'40	
evening set	2751 Jan 12 13:53	6° ≈ 22'30		<i>3</i>			
C				conjunction	2757 Feb 20 17:19	1°) 44'44	-0°42'57
conjunction	2751 Jan 28 04:39	7° ≈ 17'30	-0°33'55	minimum elong	2757 Feb 20 17:19	1°){ 44'44	0°42'57
minimum elong	2751 Jan 28 04:38	7° ≈ 17'30	0°33'55	max. Earth dist.	2757 Feb 21 15:30	1°) 47′57	20.94664 AU
max. Earth dist.	2751 Jan 28 22:36	7° ≈ 20'09	20.63946 AU	morning rise	2757 Mar 08 11:07	2°) €39'06	
morning rise	2751 Feb 12 20:16	8° ≈ 12'36		retrograde	2757 Jun 09 20:15	5°) 46′03	
retrograde	2751 May 16 10:07	11° ≈ 21'34		opposition	2757 Aug 26 16:55	3°) 47′31	
opposition	2751 Aug 01 18:04	9°≈22'38		min. Earth dist.	2757 Aug 25 19:26		18.96552 AU
min. Earth dist.	2751 Jul 31 23:34		18.66965 AU	direct	2757 Nov 10 23:56	1° ¥ 50'42	
direct	2751 Oct 17 13:08	7°≈24'08		evening set	2758 Feb 09 06:22	4° ∺ 51'41	
evening set	2752 Jan 16 20:52	10° ≈ 30′07		conjunction	2758 Feb 24 22:31	5°){ 45'40	-0°43'44
conjunction	2752 Feb 01 11:46	11° ≈ 24'55	-0°35'55	minimum elong	2758 Feb 24 22:31 2758 Feb 24 22:31	5°) (45'40	
minimum elong	2752 Feb 01 11:46	11°≈24'55		max. Earth dist.	2758 Feb 25 21:39		20.98225 AU
max. Earth dist.	2752 Feb 02 07:49		20.69900 AU	morning rise	2758 Mar 12 16:47	6°) (39'58	
morning rise	2752 Feb 17 03:27	12° ≈ 19'51		retrograde	2758 Jun 14 05:18	9°) 46′38	

min. Earth dist.	2758 Aug 30 04:30		18.99838 AU	conjunction	2765 Mar 24 06:24	3° Ƴ 31'52	
opposition	2758 Aug 31 02:46	7°) 48′05	-0°48'40	minimum elong	2765 Mar 24 06:24	3° Y 31'52	
direct	2758 Nov 15 09:19	5°) € 51'24		max. Earth dist.	2765 Mar 25 04:51		21.10281 AU
evening set	2759 Feb 13 10:57	8° ¥ 51'43		morning rise	2765 Apr 09 06:02	4° Y 26′14	
				retrograde	2765 Jul 12 09:37	7° Y 32'22	
conjunction	2759 Mar 01 03:22	9°) 45'38		opposition	2765 Sep 28 11:43	5° Y 33'21	
minimum elong	2759 Mar 01 03:22	9°) 45'38	0°44'17	min. Earth dist.	2765 Sep 27 14:52		19.10434 AU
max. Earth dist.	2759 Mar 02 01:41		21.01248 AU	direct	2765 Dec 13 02:02	3° Y 37'10	
morning rise	2759 Mar 16 22:24	10°) ₹39'53		evening set	2766 Mar 12 14:14	6° Ƴ 34'59	
retrograde	2759 Jun 18 12:31	13° ¥ 46′20	0040100		27// 14 20 11 21	70000057	0042110
opposition	2759 Sep 04 12:07	11°) 47'43	-0°49′09 19.02616 AU	conjunction	2766 Mar 28 11:21	7° Y 28'57 7° Y 28'57	
min. Earth dist.	2759 Sep 03 14:43	9° H 51'07	19.02010 AU	minimum elong	2766 Mar 28 11:21		21.10395 AU
direct	2759 Nov 19 15:21	12° H 50'51		max. Earth dist.	2766 Mar 29 10:15	8° Υ 23'24	21.10393 AU
evening set	2760 Feb 17 15:03	12 X 30 31		morning rise retrograde	2766 Apr 13 11:47 2766 Jul 16 18:13	6 1 23 24 11° Υ 29'40	
conjunction	2760 Mar 04 08:07	13°) 44'42	-0°44'37	opposition	2766 Oct 02 18:42	9° Υ 30'37	-0°45'58
minimum elong	2760 Mar 04 08:07	13° X 44'42		min. Earth dist.	2766 Oct 01 21:25		19.10319 AU
max. Earth dist.	2760 Mar 05 07:21		21.03787 AU	direct	2766 Dec 17 07:53	7° Υ 34'29	19.10319 AU
morning rise	2760 Mar 20 03:40	14°) 38'55	21.03767 AC	evening set	2767 Mar 16 18:41	10° Υ 32'16	
retrograde	2760 Jun 21 20:33	17°) (45'11		evening set	2/0/ Wiai 10 10.41	10 32 10	
opposition	2760 Sep 07 20:57	15°) 46'29	-0°49'24	conjunction	2767 Apr 01 16:26	11° Y 26'19	-0°41'02
min. Earth dist.	2760 Sep 06 22:36		19.04922 AU	minimum elong	2767 Apr 01 16:26	11° Υ 26'19	
direct	2760 Nov 22 23:41	13° ¥ 49'58	19.01922710	max. Earth dist.	2767 Apr 02 14:01		21.10052 AU
evening set	2761 Feb 20 18:58	16°) (49'10		morning rise	2767 Apr 17 17:53	12° Υ 20'52	21.10032710
e venning see	2701100 20 10.50	10 /(1) 10		retrograde	2767 Jul 21 01:05	15° Y 27'18	
conjunction	2761 Mar 08 12:25	17°) 42′59	-0°44'45	min. Earth dist.	2767 Oct 06 06:08		19.09745 AU
minimum elong	2761 Mar 08 12:25	17°) 42'59		opposition	2767 Oct 07 01:42	13° Y 28'14	
max. Earth dist.	2761 Mar 09 11:01		21.05873 AU	direct	2767 Dec 21 11:23	11° Υ 32'06	
morning rise	2761 Mar 24 08:50	18°) 37'12		evening set	2768 Mar 19 23:18	14° Y 29'56	
retrograde	2761 Jun 26 03:53	21°) 43'20		<i>8</i>			
min. Earth dist.	2761 Sep 11 07:58		19.06810 AU	conjunction	2768 Apr 04 22:04	15° Y 24'05	-0°39'43
opposition	2761 Sep 12 05:29	19°) 44′32		minimum elong	2768 Apr 04 22:04	15° Y 24′05	
direct	2761 Nov 27 04:46	17°) 48′05		max. Earth dist.	2768 Apr 05 19:41	15° Y 27'10	21.09240 AU
evening set	2762 Feb 24 22:46	20°) 46′50		morning rise	2768 Apr 21 00:17	16° Ƴ 18'45	
•				retrograde	2768 Jul 24 10:21	19° Ƴ 25'24	
conjunction	2762 Mar 12 16:59	21°) 40′39	-0°44'39	opposition	2768 Oct 10 08:34	17° Y 26′16	-0°43'02
minimum elong	2762 Mar 12 16:59	21°) 40′39	0°44'39	min. Earth dist.	2768 Oct 09 12:53	17° Y 28'15	19.08669 AU
max. Earth dist.	2762 Mar 13 16:27	21°) 44'01	21.07560 AU	direct	2768 Dec 24 17:04	15° Ƴ 30′08	
morning rise	2762 Mar 28 14:01	22°) ₹34′52		evening set	2769 Mar 24 04:25	18° Ƴ 28'04	
retrograde	2762 Jun 30 11:29	25°) 40′55					
opposition	2762 Sep 16 13:16	23°) 42′03	-0°49'10	conjunction	2769 Apr 09 03:55	19° Ƴ 22'21	-0°38'12
min. Earth dist.	2762 Sep 15 14:53	23°) 44′17	19.08297 AU	minimum elong	2769 Apr 09 03:56	19° Ƴ 22'21	0°38'12
direct	2762 Dec 01 11:47	21°) 45′40		max. Earth dist.	2769 Apr 09 23:49	19° Ƴ 25'11	21.07897 AU
evening set	2763 Mar 01 02:39	24°) 44′05		morning rise	2769 Apr 25 07:15	20° Ƴ 17'09	
				retrograde	2769 Jul 28 17:37	23° Y 24'02	
conjunction	2763 Mar 16 21:21	25° ∺ 37'53	-0°44'20	opposition	2769 Oct 14 15:36	21° Y 24'49	
minimum elong	2763 Mar 16 21:21	25°) 37′53		min. Earth dist.	2769 Oct 13 22:01		19.07050 AU
max. Earth dist.	2763 Mar 17 19:59		21.08850 AU	direct	2769 Dec 28 20:58	19° Y 28'37	
morning rise	2763 Apr 01 19:19	26° ∺ 32'09		evening set	2770 Mar 28 09:55	22° Y 26′43	
retrograde	2763 Jul 04 18:42	29°) 38′10				00	
opposition	2763 Sep 20 21:02	27°) € 39'14		conjunction	2770 Apr 13 10:30	23° Y 21'08	
min. Earth dist.	2763 Sep 19 23:39		19.09402 AU	minimum elong	2770 Apr 13 10:30	23° Υ 21'08	
direct	2763 Dec 05 16:06	25°) 42′56		max. Earth dist.	2770 Apr 14 05:52		21.05997 AU
evening set	2764 Mar 04 06:15	28°) 41′03		morning rise	2770 Apr 29 14:39	24°Υ16'05	
. ,.	27(4) 4 20 01 40	200 1/2 4/5 4	0042140	retrograde	2770 Aug 02 03:13	27° Y 23'12	0020116
conjunction minimum elong	2764 Mar 20 01:48 2764 Mar 20 01:48	29° H 34'54 29° H 34'54		opposition min. Earth dist.	2770 Oct 18 22:18 2770 Oct 18 04:56	25° Y 23'53	-0°39'16 19.04852 AU
•			0 43 49 21.09765 AU			23° Y $27'34$	19.04832 AU
max. Earth dist.	2764 Mar 21 01:13 2764 Mar 27 09:29	29°π3815 0°Υ	41.07/03 AU	direct evening set	2771 Jan 02 02:39 2771 Apr 01 15:55	26° Y 25'53	
morning rise	2764 Mar 27 09:29 2764 Apr 05 00:26	0° Υ 29'12		evening set	2111 Apr 01 13.33	20 1 23 33	
retrograde	2764 Apr 03 00:26 2764 Jul 08 02:34	3° Υ 35'15		conjunction	2771 Apr 17 17:19	27° Y 20′28	-0°34'36
min. Earth dist.	2764 Sep 23 06:15		19.10115 AU	minimum elong	2771 Apr 17 17:19 2771 Apr 17 17:19	27° Y 20'28	
opposition	2764 Sep 24 04:26	1° Υ 36'17		max. Earth dist.	2771 Apr 18 10:36		21.03513 AU
эррозион	2764 Nov 10 08:33	30°R) €	3 1001	morning rise	2771 Apr 18 10:36 2771 May 03 22:33	28° Υ 15'35	21.03313 AU
direct	2764 Dec 08 22:17	29°) (40'02			2771 Jun 07 11:19	0° 8	
	2765 Jan 05 20:24	0°Υ		retrograde	2771 Aug 06 10:55	1° 8 22'57	
evening set	2765 Mar 08 10:15	2° Υ 37'58			2771 Oct 07 22:20	30°RY	
-0		. 5, 20				· • •	

opposition	2771 Oct 23 05:20	29° Y ′23'29	-0°37'05	evening set	2778 Apr 29 22:55	24° 8 39'19	
min. Earth dist.	2771 Oct 22 14:11		19.02088 AU	0.0	_,,,,,, _F , _, _,		
direct	2772 Jan 06 07:02	27° Y ′26'59		conjunction	2778 May 16 07:24	25° 8 35'25	-0°17'03
	2772 Mar 28 03:32	0° 8		minimum elong	2778 May 16 07:24	25° 8 35'25	0°17'03
evening set	2772 Apr 04 22:00	0° 8 25'34		max. Earth dist.	2778 May 16 16:34	25° 8 36'43	20.74108 AU
				morning rise	2778 Jun 01 19:07	26° 8 32'00	
conjunction	2772 Apr 21 00:31	1° 8 20'19		retrograde	2778 Sep 04 10:55	29° 8 42'07	
minimum elong	2772 Apr 21 00:31	1° 8 20'19		opposition	2778 Nov 20 08:13	27° 8 41'21	
max. Earth dist.	2772 Apr 21 17:18	_	21.00493 AU	min. Earth dist.	2778 Nov 20 00:16	. —	18.71447 AU
morning rise	2772 May 07 06:38	2° 8 15'36		direct	2779 Feb 03 01:51	25° 8 43'04	
retrograde	2772 Aug 09 20:57	5° 8 23'16	0024142	evening set	2779 May 04 09:35	28° 8 45'36	
opposition min. Earth dist.	2772 Oct 26 12:14	3° 8 23'36	-0°34′43 18.98803 AU	agniumation	2770 May 20 19:56	29° 8 41'58	0014104
direct	2772 Oct 25 21:14 2773 Jan 09 13:20	1° 8 26'54	18.98803 AU	conjunction minimum elong	2779 May 20 18:56 2779 May 20 18:56	29° 8 41'58	
evening set	2773 Apr 09 04:50	4° 8 25'49		behind sun begin	2779 May 20 15:44	29° 8 41'31	0 14 04
evening set	2773 Apr 09 04.30	4 02349		behind sun end	2779 May 20 13:44 2779 May 20 22:08	29° 8 42'25	
conjunction	2773 Apr 25 08:12	5° 8 20'45	-0°30'19	max. Earth dist.	2779 May 21 02:14		20.68746 AU
minimum elong	2773 Apr 25 08:13	5° 8 20'45		man. Barar alov.	2779 May 25 23:44	0°II	20.007.0110
max. Earth dist.	2773 Apr 25 23:03	_	20.96974 AU	morning rise	2779 Jun 06 07:34	0° П 38'50	
morning rise	2773 May 11 15:25	6° 8 16'13		retrograde	2779 Sep 08 22:07	3° Ⅱ 49'30	
retrograde	2773 Aug 14 05:04	9° 8 24'12		opposition	2779 Nov 24 16:44	1° Ⅱ 48'37	-0°13'49
opposition	2773 Oct 30 19:11	7° 8 24'19	-0°32'10	min. Earth dist.	2779 Nov 24 11:03	1° Ⅱ 49'13	18.65975 AU
min. Earth dist.	2773 Oct 30 06:25	7° 8 25'37	18.95065 AU		2780 Jan 18 19:36	30° ₹ 8	
direct	2774 Jan 13 17:40	5° 8 27'22		direct	2780 Feb 07 08:00	29° 8 50'05	
evening set	2774 Apr 13 12:01	8° 8 26'41			2780 Feb 26 19:05	$\Pi^{\circ}0$	
				evening set	2780 May 07 20:52	2° Ⅱ 53′29	
conjunction	2774 Apr 29 16:32	9° 8 21'49					
minimum elong	2774 Apr 29 16:32	9° 8 21'49		conjunction	2780 May 24 07:18	3° Ⅱ 50′09	-0°10'59
max. Earth dist.	2774 Apr 30 06:49		20.93041 AU	minimum elong	2780 May 24 07:17	3° ∏ 50′09	0°10'59
morning rise	2774 May 16 00:36	10° 8 17'30		behind sun begin	2780 May 24 02:17	3° ∏ 49'26	
retrograde	2774 Aug 18 16:01	13° 8 25'49		behind sun end	2780 May 24 12:18	3° Ⅱ 50'51	
opposition	2774 Nov 04 02:08	11° 8 25'44		max. Earth dist.	2780 May 24 13:28		20.63175 AU
min. Earth dist.	2774 Nov 03 13:30	9° 8 28'31	18.90934 AU	morning rise	2780 Jun 09 20:43	4° Ⅱ 47'16 7° Ⅱ 58'32	
direct evening set	2775 Jan 18 00:39 2775 Apr 17 19:47	12° 8 28'19		retrograde opposition	2780 Sep 12 12:06 2780 Nov 28 01:33	7 П 38 32 5° П 57'34	0°10'21
evening set	27/3 Apr 17 19.47	12 02019		min. Earth dist.	2780 Nov 28 01:33 2780 Nov 27 20:23		18.60279 AU
conjunction	2775 May 04 01:08	13° 8 23'40	-0°25'24	direct	2781 Feb 10 16:53	3° П 58'46	10.00277 AC
minimum elong	2775 May 04 01:08	13° 8 23'40		evening set	2781 May 12 09:26	7° I 03'07	
max. Earth dist.	2775 May 04 13:37	_	20.88730 AU	0.08 000	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
morning rise	2775 May 20 10:13	14° 8 19'33		conjunction	2781 May 28 20:42	8° Ⅱ 00'05	-0°07'50
-	2775 Jun 01 19:11	15° 8		minimum elong	2781 May 28 20:43	8° Ⅱ 00'05	0°07'50
retrograde	2775 Aug 23 00:30	17° 8 28'16		behind sun begin	2781 May 28 14:41	7° Ⅱ 59'13	
opposition	2775 Nov 08 09:23	15° 8 27'59	-0°26'35	behind sun end	2781 May 29 02:44	8° Ⅱ 00'56	
min. Earth dist.	2775 Nov 07 22:51	15° 8 29'03	18.86464 AU	max. Earth dist.	2781 May 29 00:50	8° Ⅱ 00′39	20.57351 AU
	2775 Nov 19 20:48	15° ₹ 8		morning rise	2781 Jun 14 10:56	8° Ⅱ 57'29	
direct	2776 Jan 22 05:04	13° 8 30'30		retrograde	2781 Sep 17 01:00	12° ∏ 09'22	
	2776 Mar 22 18:58	15° 8		opposition	2781 Dec 02 10:54	10° ∏ 08'18	
evening set	2776 Apr 21 04:04	16° 8 30'51		min. Earth dist.	2781 Dec 02 08:22		18.54326 AU
. ,.	2776 M 07 10 22	170 4000	0022144	direct	2782 Feb 15 00:31	8° Ⅱ 09'13	
conjunction minimum elong	2776 May 07 10:33 2776 May 07 10:33	17° 8 26'26 17° 8 26'26		evening set	2782 May 16 22:54	11° Ⅱ 14'36	
max. Earth dist.	2776 May 07 10.33 2776 May 07 22:26	_	20.84122 AU	conjunction	2782 Jun 02 11:08	12° Ⅱ 11'51	0°04'37
morning rise	2776 May 23 20:29	18° 8 22'33	20.84122 AU	minimum elong	2782 Jun 02 11:08 2782 Jun 02 11:08	12 Ⅲ 11'51	
retrograde	2776 Aug 26 12:34	21° 8 31'41		behind sun begin	2782 Jun 02 04:33	12° Ⅲ 10'55	0 0137
opposition	2776 Nov 11 16:40	19° 8 31'13	-0°23'34	behind sun end	2782 Jun 02 17:43	12° I 12'47	
min. Earth dist.	2776 Nov 11 06:15		18.81710 AU	max. Earth dist.	2782 Jun 02 13:30		20.51271 AU
direct	2777 Jan 25 12:38	17° 8 33'27		morning rise	2782 Jun 19 02:03	13° Ⅱ 09'32	
evening set	2777 Apr 25 13:09	20° 8 34'27		retrograde	2782 Sep 21 16:10	16° Ⅲ 22'03	
-	-			opposition	2782 Dec 06 20:47	14° Ⅱ 20′53	-0°03'12
conjunction	2777 May 11 20:32	21° 8 30'17	-0°19'57	min. Earth dist.	2782 Dec 06 19:03	14° Ⅲ 21′04	18.48101 AU
minimum elong	2777 May 11 20:33	21° 8 30'17	0°19'57	direct	2783 Feb 19 10:32	12° Ⅱ 21'30	
max. Earth dist.	2777 May 12 06:36		20.79233 AU	evening set	2783 May 21 13:16	15° Ⅱ 27'56	
morning rise	2777 May 28 07:28	22° 8 26'38					
retrograde	2777 Aug 30 22:06	25° 8 36'15		conjunction	2783 Jun 07 02:19	16° Ⅱ 25'30	
opposition	2777 Nov 16 00:25	23° 8 35'37		minimum elong	2783 Jun 07 02:17	16° Ⅲ 25'30	0°01'19
min. Earth dist.	2777 Nov 15 16:11		18.76696 AU	behind sun begin	2783 Jun 06 19:33	16° Ⅲ 24'32	
direct	2778 Jan 29 17:42	21° 8 37'36		behind sun end	2783 Jun 07 09:02	16° Ⅱ 26'27	

max. Earth dist.	2783 Jun 07 02:31	16° Ⅲ 25'31 20.4489	3 AU opposition	2788 Dec 31 20:11	10°5514'12 0°18'40
morning rise	2783 Jun 23 17:50	17° Ⅲ 23′28	min. Earth dist.	2789 Jan 01 04:18	10°€13'20 18.06470 AU
retrograde	2783 Sep 26 06:14	20° Ⅲ 36'37	direct	2789 Mar 16 13:19	8° © 12'19
asc. node	2783 Oct 27 08:31	20° Ⅲ 12'40	evening set	2789 Jun 16 23:14	11°9525'47
opposition	2783 Dec 11 07:24	18° Ⅲ 35'19 0°00'27	•		
min. Earth dist.	2783 Dec 11 08:16	18° 耳 35'13 18.4158	3 AU conjunction	2789 Jul 03 16:27	12°9525'13 0°18'23
direct	2784 Feb 23 20:15	16° Ⅱ 35'35	minimum elong	2789 Jul 03 16:27	12°9525'13 0°18'24
evening set	2784 May 25 04:38	19° Ⅱ 43'06	max. Earth dist.	2789 Jul 03 05:45	12°523'38 20.02956 AU
	•		morning rise	2789 Jul 20 10:32	13° 5 24'49
conjunction	2784 Jun 10 18:30	20° II 40'59 0°02'06	retrograde	2789 Oct 22 08:10	16°9541'42
minimum elong	2784 Jun 10 18:31	20° II 40'59 0°02'06		2790 Jan 05 10:11	14°939'21 0°22'08
behind sun begin	2784 Jun 10 11:46	20° Ⅱ 40′02	min. Earth dist.	2790 Jan 05 20:06	14°938'17 17.99449 AU
behind sun end	2784 Jun 11 01:15	20° Ⅱ 41'57	direct	2790 Mar 21 03:33	12°937'01
max. Earth dist.	2784 Jun 10 16:37	20° Ⅱ 40'46 20.3825	2 AU evening set	2790 Jun 21 20:10	15° 9 51'46
morning rise	2784 Jun 27 10:42	21° Ⅲ 39'14	C		
retrograde	2784 Sep 29 22:03	24° Ⅲ 53′01	conjunction	2790 Jul 08 13:43	16°951'29 0°21'28
opposition	2784 Dec 14 18:21	22° I 51'33 0°04'08	·	2790 Jul 08 13:43	16°951'29 0°21'28
min. Earth dist.	2784 Dec 14 20:08	22° I 51'22 18.3481	-	2790 Jul 08 00:45	16°5549'33 19.96018 AU
direct	2785 Feb 27 07:52	20° Ⅲ 51′25	morning rise	2790 Jul 25 08:05	17°951'20
evening set	2785 May 29 20:58	24° Ⅱ 00'05	retrograde	2790 Oct 27 03:28	21°908'50
S	J		opposition	2791 Jan 10 00:55	19°506'20 0°25'30
conjunction	2785 Jun 15 11:39	24° Ц 58'17 0°05'26	**	2791 Jan 10 11:37	19° © 05'11 17.92611 AU
minimum elong	2785 Jun 15 11:39	24° Ц 58'17 0°05'26		2791 Mar 25 20:11	17° © 03'36
behind sun begin	2785 Jun 15 05:09	24° Ⅱ 57′21	evening set	2791 Jun 26 17:45	20°519'37
behind sun end	2785 Jun 15 18:10	24° Ⅲ 59'13	C		
max. Earth dist.	2785 Jun 15 07:47	24° П 57'44 20.3136	5 AU conjunction	2791 Jul 13 11:48	21°519'38 0°24'26
morning rise	2785 Jul 02 04:21	25° Ⅱ 56'48	minimum elong	2791 Jul 13 11:47	21°519'38 0°24'25
retrograde	2785 Oct 04 13:03	29° Ⅱ 11'12	max. Earth dist.	2791 Jul 12 22:26	21°517'38 19.89274 AU
opposition	2785 Dec 19 06:01	27° I 109'34 0°07'49		2791 Jul 30 06:04	22°519'44
min. Earth dist.	2785 Dec 19 10:17	27° I 109'07 18.2783	-	2791 Oct 31 22:42	25°937'51
direct	2786 Mar 03 19:25	25° Ⅱ 09'01	opposition	2792 Jan 14 16:29	23°\$35'16 0°28'44
evening set	2786 Jun 03 14:11	28° Ⅱ 18'50	min. Earth dist.	2792 Jan 15 04:31	23°533'58 17.85990 AU
8			direct	2792 Mar 29 12:13	21°932'09
conjunction	2786 Jun 20 05:33	29° Ⅱ 17'21 0°08'44	evening set	2792 Jun 30 16:33	24°5549'28
minimum elong	2786 Jun 20 05:33	29° П 17'21 0°08'43	_		
behind sun begin	2786 Jun 19 23:44	29° Ⅱ 16'30	conjunction	2792 Jul 17 10:45	25°\$49'45 0°27'16
behind sun end	2786 Jun 20 11:22	29° Ⅱ 18'11	minimum elong	2792 Jul 17 10:45	25°\$49'45 0°27'16
max. Earth dist.	2786 Jun 19 23:27	29° I 16'28 20.2431		2792 Jul 16 19:03	25°\$47'23 19.82788 AU
man. Darm dist.	2786 Jul 02 07:26	0°95	morning rise	2792 Aug 03 05:11	26°\$50'05
morning rise	2786 Jul 06 22:46	0°9516'08		2792 Oct 17 17:05	0° N
retrograde	2786 Oct 09 05:28	3° © 31'10	retrograde	2792 Nov 04 19:14	0° Ω 08'49
opposition	2786 Dec 23 18:04	1°529'20 0°11'29	•	2792 Nov 23 00:01	30° №
min. Earth dist.	2786 Dec 23 23:13	1°528'47 18.2073		2793 Jan 18 08:36	28°506'09 0°31'49
min. Darm dige.	2787 Feb 01 03:49	30°RⅡ	min. Earth dist.	2793 Jan 18 21:37	28°\$04'45 17.79646 AU
direct	2787 Mar 08 09:03	29° ∏ 28′21	direct	2793 Apr 03 05:39	26° © 02'41
	2787 Apr 12 03:23	0.ಪ	evening set	2793 Jul 05 16:13	29° © 21'19
evening set	2787 Jun 08 08:17	2° © 39'21	**************************************	2793 Jul 16 10:29	0° N
					• ••
conjunction	2787 Jun 25 00:20	3°538'11 0°12'00	conjunction	2793 Jul 22 10:47	0° Ω 21'52 0°29'57
minimum elong	2787 Jun 25 00:20	3°538'11 0°12'01	·	2793 Jul 22 10:46	0° Ω 21'52 0°29'56
behind sun begin	2787 Jun 24 19:48	3°537'31	max. Earth dist.	2793 Jul 21 18:52	0° Ω 19'28 19.76572 AU
behind sun end	2787 Jun 25 04:53	3° © 38'50	morning rise	2793 Aug 08 04:55	1° Ω 22'25
max. Earth dist.	2787 Jun 24 16:49	3°537'05 20.1717	-	2793 Nov 09 16:50	4° Ω 41'45
morning rise	2787 Jul 11 17:52	4° 9 37'15	opposition	2794 Jan 23 01:40	2° Ω 39'04 0°34'44
•	2787 Oct 13 21:17	7° 9 52'54	min. Earth dist.	2794 Jan 23 15:48	2°Ω37'32 17.73568 AU
retrograde	2787 Dec 28 06:51	5° © 50'53 0°15'06			0° Ω 35'17
opposition min. Earth dist.		5° © 50'06 18.1358		2794 Apr 07 23:38	3° Ω 55'13
	2787 Dec 28 14:07		1 AU evening set	2794 Jul 10 16:53	3 66 33 13
direct	2788 Mar 11 21:45	3°549'27		2704 I-1 27 11-20	49.05.0101 0922129
evening set	2788 Jun 12 03:14	7° 5 01'40	conjunction	2794 Jul 27 11:20	4° Ω 56'01 0°32'28
	2700 I 20 10 51	00600147 0015114	minimum elong	2794 Jul 27 11:20	4°Ω56'01 0°32'28
conjunction	2788 Jun 28 19:51	8°500'47 0°15'14		2794 Jul 26 17:00	4° Ω 53'14 19.70633 AU
minimum elong	2788 Jun 28 19:51	8°500'47 0°15'14	· ·	2794 Aug 13 05:25	5° Ω 56'47
behind sun begin	2788 Jun 28 18:04	8°500'32	retrograde	2794 Nov 14 14:15	9° Ω 16'42
behind sun end	2788 Jun 28 21:39	8°501'03	opposition	2795 Jan 27 19:30	7°Ω14'00 0°37'27
max. Earth dist.	2788 Jun 28 10:08	7°559'21 20.1004		2795 Jan 28 10:54	7°Ω12'20 17.67773 AU
morning rise	2788 Jul 15 13:51	9° 5 00'08	direct	2795 Apr 12 18:28	5° Ω 09'55
retrograde	2788 Oct 17 15:10	12° © 16'24	evening set	2795 Jul 15 18:20	8° Ω 31′08

	2705 4 01 12 50	00.022110	0024140		2001 4 20 10 11	70 m. 40145	00.42140
conjunction	2795 Aug 01 12:58	9° £ 32′10		conjunction	2801 Aug 30 10:11	7° Mp 42'45	0°43'49
minimum elong max. Earth dist.	2795 Aug 01 12:58	9° Ω 32'10	0°34'48	minimum elong	2801 Aug 30 10:11	7° Mp 42'45	0°43'48
	2795 Jul 31 18:29		19.64957 AU	morning rise	2801 Sep 16 00:22	8° Mp 44'23	
morning rise	2795 Aug 18 06:35	10° £ 33'08		retrograde	2801 Dec 17 09:36	12° Mp 07'04	0940!11
retrograde	2795 Nov 19 13:30 2796 Feb 01 14:05	13° Ω 53'35 11° Ω 50'53	0°39'57	opposition	2802 Feb 28 20:59 2802 Mar 01 17:38	10° Mp 04'09	0°49'11
opposition min. Earth dist.	2796 Feb 01 14.03 2796 Feb 02 06:25		0 3937 17.62226 AU	min. Earth dist. direct		10° Mp 01'53	17.35345 AU
direct	2796 Apr 16 14:41	9° Ω 46'31	17.02220 AU	evening set	2802 May 15 11:54 2802 Aug 18 22:29	7° my 58'05 11° my 26'27	
evening set	2796 Apr 10 14.41 2796 Jul 19 20:49	13° Ω 08'57		evening set	2002 Aug 10 22.29	11 111/2027	
evening set	2/90 Jul 19 20.49	13 060037		conjunction	2802 Sep 04 14:35	12° m 28'30	0°44'20
conjunction	2796 Aug 05 15:13	14° Ω 10'13	0°36'56	minimum elong	2802 Sep 04 14:34	12° m/28'30	0°44'20
minimum elong	2796 Aug 05 15:13	14°Ω10'13		max. Earth dist.	2802 Sep 04 14:34 2802 Sep 03 13:33	~	19.33755 AU
max. Earth dist.	2796 Aug 03 13:13 2796 Aug 04 18:11		19.59531 AU	morning rise	2802 Sep 03 13:53 2802 Sep 21 03:51	13° m 30'10	17.55755 AC
max. Lattii dist.	2796 Aug 19 05:15	1 4 % € 00 3 <i>y</i>	17.57551 AO	retrograde	2802 Dec 22 08:19	16° Mp 53'03	
morning rise	2796 Aug 17 03:15 2796 Aug 22 08:36	15° Ω 11'20		opposition	2802 Dec 22 08:19 2803 Mar 05 20:19	14° Mp 50'05	0°49'36
retrograde	2796 Nov 23 11:25	18°Ω32'18		min. Earth dist.	2803 Mar 06 18:01	14° Mp 47'42	
opposition	2797 Feb 05 09:36	16° Ω 29'34	0°42'13	direct	2803 May 20 13:20	12° Mp 43'49	17.32372 AC
min. Earth dist.	2797 Feb 06 03:29		17.56935 AU	evening set	2803 Aug 24 03:43	16° M) 12'52	
iiiii. Lattii dist.	2797 Mar 15 14:19	10 8ℓ2 737	17.50755 AO	evening set	2003 Aug 24 03.43	10 11/12 32	
direct	2797 Apr 21 11:32	13 \82 14° \2 24'53		conjunction	2803 Sep 09 19:06	17° m) 14'57	0°44'33
direct	2797 May 27 23:12	14 8ℓ2 4 33		minimum elong	2803 Sep 09 19:06	17° Mg 14'57	0°44'32
evening set	2797 Jul 24 23:54	17° Ω 48'31		max. Earth dist.	2803 Sep 09 19:00 2803 Sep 08 18:04	-•	19.31092 AU
evening set	2/9/Jul 24 23.34	1/064031		morning rise	2803 Sep 06 18:04 2803 Sep 26 07:35	18° Mp 16'37	19.31092 AU
conjunction	2797 Aug 10 18:16	18° Ω 49'58	0°38'50	retrograde	2803 Sep 20 07:33 2803 Dec 27 09:42	21° mp 39'38	
minimum elong	2797 Aug 10 18:16 2797 Aug 10 18:16	18° Ω 49'58	0°38'51	opposition	2804 Mar 09 19:50	19° Mp 36'41	0°49'40
max. Earth dist.	2797 Aug 10 18:10 2797 Aug 09 21:01		19.54357 AU	min. Earth dist.	2804 Mar 10 16:27	-•	17.30029 AU
morning rise	2797 Aug 07 21:01 2797 Aug 27 11:02	19° Ω 51'15	17.54557 AO	direct	2804 May 24 16:55	17° Mp 30'15	17.30027 AC
retrograde	2797 Nov 28 11:27	23°Ω12'39		evening set	2804 Aug 28 09:05	20° m 59'53	
opposition	2798 Feb 10 05:45	23° Ω 09'54	0°44'12	evening set	2004 Aug 20 07.03	20 III 3733	
min. Earth dist.	2798 Feb 11 00:07		17.51894 AU	conjunction	2804 Sep 13 23:46	22° m 01'59	0°44'27
direct	2798 Apr 26 10:01	19° Ω 04'56	17.516)4 AC	minimum elong	2804 Sep 13 23:46	22° mp 01'59	0°44'27
evening set	2798 Jul 30 03:43	22° Ω 29'40		max. Earth dist.	2804 Sep 13 23:46 2804 Sep 12 23:25		19.29035 AU
evening set	2776 Jul 30 03.43	22 0627 40		morning rise	2804 Sep 30 11:11	23° m 03'38	17.27033 AC
conjunction	2798 Aug 15 21:41	23° Ω 31'17	0°40'30	retrograde	2804 Dec 31 09:12	26° m) 26'43	
minimum elong	2798 Aug 15 21:41 2798 Aug 15 21:41	$23^{\circ} \Omega 31'17$ $23^{\circ} \Omega 31'17$	0°40'29	opposition	2804 Dec 31 09:12 2805 Mar 14 20:08	24° m 23'49	0°49'24
max. Earth dist.	2798 Aug 14 22:19		19.49461 AU	min. Earth dist.	2805 Mar 15 17:24	~	17.28300 AU
morning rise	2798 Sep 01 13:58	24°Ω32'41	17.47401 AU	direct	2805 May 29 18:34	22°M) 17'18	17.20300 AC
retrograde	2798 Dec 03 09:45	27°Ω54'30		evening set	2805 Sep 02 14:25	25° Mp 47'25	
opposition	2798 Bec 03 09:43 2799 Feb 15 02:44	27° Ω 54'30' 25° Ω 51'42	0°45'55	max. Earth dist.	2805 Sep 02 14:25 2805 Sep 18 03:42		19.27642 AU
min. Earth dist.	2799 Feb 15 22:37		17.47171 AU	max. Lartii dist.	2003 Sep 10 03.42	20 IIJ +3 30	17.27042 AC
direct	2799 May 01 08:37	23° Ω 46'25	17.4/1/1 AO	conjunction	2805 Sep 19 04:09	26° Mp 49'29	0°44'02
evening set	2799 Aug 04 07:44	27°Ω12'12		minimum elong	2805 Sep 19 04:09	26° Mp 49'29	0°44'03
max. Earth dist.	2799 Aug 20 02:04		19.44906 AU	morning rise	2805 Oct 05 14:41	27° My 51'06	0 44 03
max. Lattii dist.	277) Aug 20 02.04	20 661020	17.44700 AC	morning 1130	2805 Nov 14 00:59	ە <u>م</u> 0° <u>م</u>	
conjunction	2799 Aug 21 01:29	28° Ω 13'58	0°41'53	retrograde	2806 Jan 05 11:32	0 – 1° ⊆ 14'14	
minimum elong	2799 Aug 21 01:29	28° Ω 13'58		retrograde	2806 Feb 28 20:34	1 <u>—</u> 1414 30°R, Mp	
morning rise	2799 Sep 06 17:07	29° Ω 15'28	0 41 33	opposition	2806 Mar 19 20:42	29° m) 11'25	0°48'47
morning risc	2799 Sep 19 07:05	0° m		min. Earth dist.	2806 Mar 20 16:30	~	17.27238 AU
retrograde	2799 Dec 08 10:17	2° mp 37'38		direct	2806 Jun 03 22:40	27° Mp 04'52	17.27230 AC
opposition	2800 Feb 20 00:14	0° Mp 34'47	0°47'20	direct	2806 Aug 29 00:56	27 IIV 04 32 0° Ω	
min. Earth dist.	2800 Feb 20 00:14 2800 Feb 20 20:02		17.42794 AU	evening set	2806 Sep 07 19:37	0° - 35'22	
iiiii. Lattii dist.	2800 Mar 04 09:52	30°RΩ	17.42774 AO	max. Earth dist.	2806 Sep 23 09:42		19.26911 AU
direct	2800 May 05 09:13	28° Ω 29'14		max. Lartii dist.	2000 Sep 25 07.42	1 -33 40	17.20711 AC
direct	2800 Jul 04 07:42	0° m		conjunction	2806 Sep 24 08:36	1° ≏ 37'24	0°43'20
evening set	2800 Jul 04 07:42 2800 Aug 08 12:29	1° m)55'57		minimum elong	2806 Sep 24 08:36	1° ⊆ 37′24	0°43'20
max. Earth dist.	2800 Aug 08 12.29 2800 Aug 24 04:56		19.40723 AU	morning rise	2806 Oct 10 17:57	2° £ 38'57	0 43 20
max. Earth dist.	2000 Aug 24 04.30	2 11/3400	19.40/23 AU	retrograde	2807 Jan 10 11:37	2 = 3637 6° ⊆ 02'04	
agniumation	2000 Aug 25 05:42	20 m 57151	0042100			3° £ 59'23	0°47'50
conjunction minimum elong	2800 Aug 25 05:43 2800 Aug 25 05:43	2° Mp 57'51 2° Mp 57'51	0°43'00 0°43'00	opposition min. Earth dist.	2807 Mar 24 21:45 2807 Mar 25 17:52		17.26835 AU
morning rise	2800 Aug 23 03:43 2800 Sep 10 20:39	3° Mp 59'26	0 TJ 00	direct	2807 Jun 09 00:04	1° £ 52'52	17.20033 AU
retrograde	2800 Sep 10 20:39 2800 Dec 12 08:38	7° My 21'53		evening set	2807 Sep 13 00:43	5° £ 32'32	
•		-	0°48'25	evening set	2007 Sep 13 00.43	J == 23 38	
opposition	2801 Feb 23 22:20	5°Mp18'59	17.38835 AU	conjunction	2807 San 20 12-29	60.0.25127	0°42'19
min. Earth dist.	2801 Feb 24 19:36		17.30033 AU	conjunction	2807 Sep 29 12:38	6° £ 25'37	
direct evening set	2801 May 10 09:19	3° Mp 13'10 6° Mp 40'46		minimum elong max. Earth dist.	2807 Sep 29 12:38 2807 Sep 28 13:30	6° Ω 25'37	0°42'20 19.26837 AU
max. Earth dist.	2801 Aug 29 00:22	-	10 36002 ATT		2807 Oct 15 21:08	0° ± 21′38 7° £ 27′04	17.2003 / AU
max. Earth Uist.	2801 Aug 29 09:22	ננ פנ עוו	19.36993 AU	morning rise retrograde	2807 Oct 15 21:08 2808 Jan 15 14:04	10° £ 27'04	
				renograue	2000 Jan 13 14.04	10 == 30 08	

opposition	2808 Mar 28 23:01	8° £ 47'35		conjunction	2814 Nov 02 05:44	9°M53'44	
min. Earth dist.	2808 Mar 29 17:51		17.27061 AU	minimum elong	2814 Nov 02 05:44	9°M53'44	0°27'42
direct	2808 Jun 13 04:28	6° £ 41'08		max. Earth dist.	2814 Nov 01 14:53 2814 Nov 18 06:35	10°M53'56	19.40924 AU
evening set	2808 Sep 17 05:37	10° £ 12'05		morning rise	2814 Nov 18 06:33 2815 Feb 17 11:01		
aaniumatian	2808 Oct 03 16:41	11° ≙ 13'57	0°41'01	retrograde opposition	2815 May 02 12:32	14°M14'48 12°M13'08	0°29'16
conjunction minimum elong	2808 Oct 03 16:41 2808 Oct 03 16:41	11 ≗ 13 3 / 11° ≗ 13'57	0°41'01	min. Earth dist.	2815 May 03 01:03		17.42790 AU
max. Earth dist.	2808 Oct 03 10:41 2808 Oct 02 19:27		19.27351 AU	direct	2815 Jul 18 11:16	10°M07'40	17.42790 AU
morning rise	2808 Oct 02 19:27 2808 Oct 19 23:55	11 ≅ 10 30	19.27331 AU	evening set	2815 Oct 22 01:57	13°M36'02	
retrograde	2809 Jan 19 14:03	12 — 13 18 15° — 38'14		evening set	2013 Oct 22 01.37	13 11030 02	
opposition	2809 Apr 03 00:44	13° ⊆ 35'51	0°44'56	conjunction	2815 Nov 07 05:20	14°M36'30	0°24'44
min. Earth dist.	2809 Apr 03 19:35		17.27852 AU	minimum elong	2815 Nov 07 05:20	14°M36'30	0°24'45
direct	2809 Jun 18 06:56	11° ⊆ 29'31	17.27032110	max. Earth dist.	2815 Nov 06 15:41	14°M34'22	
evening set	2809 Sep 22 10:22	15° ⊆ 00'28		max. Earth dist.	2815 Nov 13 10:44	15°M	17.11757110
e venning see	2007 Sep 22 10.22	10 -0020		morning rise	2815 Nov 23 05:13	15°M36'28	
conjunction	2809 Oct 08 20:13	16° ≏ 02'13	0°39'26	retrograde	2816 Feb 22 08:05	18° M 56'47	
minimum elong	2809 Oct 08 20:13	16° ♀ 02'13	0°39'26	opposition	2816 May 06 14:00	16°M55'13	0°25'52
max. Earth dist.	2809 Oct 07 22:42	15° £ 58'49		min. Earth dist.	2816 May 07 01:45		17.46856 AU
morning rise	2809 Oct 25 02:30	17° ♀ 03'25			2816 Jul 02 18:50	15°RM	
retrograde	2810 Jan 24 15:29	20° £ 26'10		direct	2816 Jul 22 13:29	14°M49'56	
opposition	2810 Apr 08 02:40	18° ≏ 23'56	0°43'00		2816 Aug 11 03:50	15° M	
min. Earth dist.	2810 Apr 08 20:23	18° ≏ 22'00	17.29186 AU	evening set	2816 Oct 26 01:39	18°M17'30	
direct	2810 Jun 23 12:16	16° ≏ 17'43		C			
evening set	2810 Sep 27 14:22	19° ≏ 48'33		conjunction	2816 Nov 11 03:58	19° M 17'40	0°21'37
Č	1			minimum elong	2816 Nov 11 03:58	19° M 17'40	0°21'37
conjunction	2810 Oct 13 23:19	20° ≏ 50'08	0°37'34	max. Earth dist.	2816 Nov 10 16:21	19° M 15'51	19.49062 AU
minimum elong	2810 Oct 13 23:19	20° ♀ 50'08	0°37'34	morning rise	2816 Nov 27 02:52	20°M17'22	
max. Earth dist.	2810 Oct 13 03:55	20° ≙ 47'04	19.30005 AU	retrograde	2817 Feb 26 06:22	23°M37'07	
morning rise	2810 Oct 30 04:22	21° ≏ 51'10		opposition	2817 May 11 15:02	21°M35'39	0°22'19
retrograde	2811 Jan 29 14:44	25° £ 13'41		min. Earth dist.	2817 May 12 00:16	21°M34'40	17.51383 AU
opposition	2811 Apr 13 04:49	23° £ 11'35	0°40'46	direct	2817 Jul 27 17:19	19°M30'37	
min. Earth dist.	2811 Apr 13 21:59	23° ჲ 09'43	17.31002 AU	evening set	2817 Oct 31 00:27	22°M57'16	
direct	2811 Jun 28 16:27	21° ≏ 05'30					
evening set	2811 Oct 02 18:12	24° ≏ 36'06		conjunction	2817 Nov 16 01:41	23°M57'10	0°18'23
max. Earth dist.	2811 Oct 18 06:24	25° ≏ 34'25	19.32062 AU	minimum elong	2817 Nov 16 01:41	23°M57'10	0°18'24
				max. Earth dist.	2817 Nov 15 16:06	23°M55'40	19.53834 AU
conjunction	2811 Oct 19 01:55	25° ≏ 37'29	0°35'27	morning rise	2817 Dec 01 23:37	24°M56'36	
minimum elong	2811 Oct 19 01:55	25° ≏ 37'29	0°35'26	retrograde	2818 Mar 03 02:17	28°M15'46	
morning rise	2811 Nov 04 06:00	26° ≏ 38′21		opposition	2818 May 16 15:48	26°M14'25	0°18'38
	2812 Jan 30 07:13	0°M₊		min. Earth dist.	2818 May 17 00:03	26°M13'33	17.56406 AU
retrograde	2812 Feb 03 14:33	0°M00'32		direct	2818 Aug 01 17:52	24°M09'39	
	2812 Feb 07 21:53	30° ₹ Ω		evening set	2818 Nov 04 22:09	27°M35'22	
opposition	2812 Apr 17 06:48	27° £ 58'33	0°38'16				
min. Earth dist.	2812 Apr 17 23:06		17.33291 AU	conjunction	2818 Nov 20 22:21	28°M34'57	
direct	2812 Jul 02 21:40	25° £ 52'36		minimum elong	2818 Nov 20 22:21	28°M34'57	0°15'02
evening set	2812 Oct 06 21:18	29° ≙ 22'50		behind sun begin	2818 Nov 20 19:52	28°M34'35	
	2812 Oct 16 19:49	0° M ,		behind sun end	2818 Nov 21 00:50	28°M35'20	
max. Earth dist.	2812 Oct 22 10:36	0°∏L21'16	19.34577 AU	max. Earth dist.	2818 Nov 20 14:37		19.59105 AU
	2012 0 . 22 04 02	0074101	0022105	morning rise	2818 Dec 06 19:30	29°M34'07	
conjunction	2812 Oct 23 04:03	0°M24'01	0°33'05		2818 Dec 13 23:30	0° 🔏 53/41	
minimum elong	2812 Oct 23 04:03	0°M24'01	0°33'05	retrograde	2819 Mar 07 23:43	2° 🖈 52'41	001.4152
morning rise	2812 Nov 08 06:57	1°M24'40		opposition	2819 May 21 15:56	0° 🗷 51'30	
retrograde	2813 Feb 07 13:41	4°M46'28	0025120	min. Earth dist.	2819 May 21 21:16		17.61896 AU
opposition	2813 Apr 22 08:56	2°M44'37	0°35'29 17.36012 AU	direct	2819 Jun 11 14:30	30°RM 28°M47'05	
min. Earth dist.	2813 Apr 23 00:04	2°M42'59	17.30012 AU	direct	2819 Aug 06 19:59		
direct	2813 Jul 08 02:41	0°M38'50 4°M08'32		avaning set	2819 Sep 29 16:22 2819 Nov 09 19:01	0° ҂ 2° ҂ 11'47	
evening set	2813 Oct 11 23:42	+ IILU8 32		evening set	2017 INUV UZ 17.UI	∠ X:114/	
conjunction	2813 Oct 28 05:13	5°M09'30	0°30'30	conjunction	2819 Nov 25 18:16	3° ∡ 11'05	0°11'39
minimum elong	2813 Oct 28 05:13 2813 Oct 28 05:13	5°11L09'30	0°30'30 0°30'29	minimum elong	2819 Nov 25 18:16 2819 Nov 25 18:16	3° × '11'05 3° × '11'05	0°11'39 0°11'39
max. Earth dist.	2813 Oct 28 03.13 2813 Oct 27 12:17		19.37525 AU	behind sun begin	2819 Nov 25 13:32	3° ₹ 11'03	0 11 37
morning rise	2813 Oct 27 12.17 2813 Nov 13 07:07	6°ML09'57	17.31323 AU	behind sun begin	2819 Nov 25 13:32 2819 Nov 25 23:00	3° x °10′21 3° x ¹ 11′48	
retrograde	2814 Feb 12 12:08	9°M231'19		max. Earth dist.	2819 Nov 25 12:58		19.64816 AU
opposition	2814 Feb 12 12:08 2814 Apr 27 10:58	7°M29'33	0°32'29	morning rise	2819 Nov 23 12:38 2819 Dec 11 14:29	4° ₹ 1010	27.0 7010 AU
min. Earth dist.	2814 Apr 28 01:16		17.39185 AU	retrograde	2820 Mar 11 18:54	7° ₹ 27'55	
direct	2814 Jul 13 06:37	5°M23'54	.,,100 /10	opposition	2820 May 25 15:41	5° ₹ 26'57	0°11'02
evening set	2814 Oct 17 01:14	8°M53'01		min. Earth dist.	2820 May 25 13:41 2820 May 25 20:10		17.67815 AU
- · 8	VI.IT	5 11000 01			20 20.10	- 7. 2020	

marning rise	2022 Eak 01 10:20	26° る 58'45		rotro aro do	2020 May 20, 07-20	24% 054100	
morning rise	2832 Feb 01 10:39			retrograde	2838 May 29 07:30	24°≈54'09	0044144
	2832 Apr 14 17:08	0° ≈		opposition	2838 Aug 14 22:39	22°≈55'33	
retrograde	2832 May 03 14:15	0°≈09'08		min. Earth dist.	2838 Aug 14 01:32		18.83770 AU
	2832 May 22 19:31	30°₹ ⋜		direct	2838 Oct 30 12:42	20°≈58'03	
opposition	2832 Jul 19 13:29	28° පි 09'51		evening set	2839 Jan 29 06:25	24° ≈ 01'18	
min. Earth dist.	2832 Jul 18 22:36		18.48270 AU				
direct	2832 Oct 04 15:04	26° る 10'14		conjunction	2839 Feb 13 21:27	24° ≈ 55'36	-0°41'06
evening set	2833 Jan 04 12:59	29° る 19'20		minimum elong	2839 Feb 13 21:27	24° ≈ 55'36	0°41'06
	2833 Jan 16 00:53	0° ≈		max. Earth dist.	2839 Feb 14 18:40	24° ≈ 58'42	20.86163 AU
				morning rise	2839 Mar 01 14:17	25° ≈ 50′09	
conjunction	2833 Jan 20 04:00	0° ≈ 14'46	-0°29'54	retrograde	2839 Jun 02 17:34	28° ≈ 57'37	
minimum elong	2833 Jan 20 03:59	0° ≈ 14'45	0°29'54	opposition	2839 Aug 19 10:06	26° ≈ 59'05	-0°46'07
max. Earth dist.	2833 Jan 20 19:24	0° ≈ 17'03	20.51507 AU	min. Earth dist.	2839 Aug 18 13:09	27° ≈ 01'10	18.88502 AU
morning rise	2833 Feb 04 19:22	1°≈10′13		direct	2839 Nov 03 20:58	25°≈01'50	
retrograde	2833 May 08 02:16	4°≈20'05		evening set	2840 Feb 02 11:45	28° ≈ 04'18	
opposition	2833 Jul 24 04:41	2° ≈ 20'53	-0°34'26	8.11			
min. Earth dist.	2833 Jul 23 12:20		18.54723 AU	conjunction	2840 Feb 18 03:12	28° ≈ 58'29	-0°42'16
direct	2833 Oct 09 03:40	0°≈21'37	10.5 1725 710	minimum elong	2840 Feb 18 03:12	28°≈58'29	
evening set	2834 Jan 08 21:09	3°≈29'37		max. Earth dist.	2840 Feb 19 01:39		20.90651 AU
evening set	2034 Jan 00 21.09	3 82931				29 ≈01 43 29°≈52'55	20.90031 AU
:	2024 I 24 12:11	4924140	0022114	morning rise	2840 Mar 04 20:19	29 ≈ 32 33	
conjunction	2834 Jan 24 12:11	4°≈24'49			2840 Mar 06 22:25		
minimum elong	2834 Jan 24 12:11	4°≈24'49	0°32'14	retrograde	2840 Jun 06 02:29	3° ₩ 00'06	
max. Earth dist.	2834 Jan 25 06:03		20.57894 AU	opposition	2840 Aug 22 21:03	1° 米 01'35	
morning rise	2834 Feb 09 03:29	5° ≈ 20'05		min. Earth dist.	2840 Aug 21 23:14		18.92739 AU
retrograde	2834 May 12 13:24	8° ≈ 29'27			2840 Sep 18 23:04	30° R ≈	
opposition	2834 Jul 28 18:59	6° ≈ 30′23	-0°36'55	direct	2840 Nov 07 07:03	29° ≈ 04'35	
min. Earth dist.	2834 Jul 28 01:18	6° ≈ 32'09	18.61035 AU		2840 Dec 24 13:20	0° ℋ	
direct	2834 Oct 13 17:17	4° ≈ 31'29		evening set	2841 Feb 05 16:48	2° ₩ 06'16	
evening set	2835 Jan 13 04:51	7° ≈ 38'26					
				conjunction	2841 Feb 21 08:24	3°) €00′20	-0°43'13
conjunction	2835 Jan 28 19:38	8° ≈ 33'25	-0°34'24	minimum elong	2841 Feb 21 08:24	3° ₩ 00'20	0°43'13
minimum elong	2835 Jan 28 19:38	8° ≈ 33'25	0°34'23	max. Earth dist.	2841 Feb 22 06:09	3° ₩ 03'30	20.94637 AU
max. Earth dist.	2835 Jan 29 13:42	8° ≈ 36'05	20.64119 AU	morning rise	2841 Mar 09 02:14	3°) 54'42	
morning rise	2835 Feb 13 11:16	9° ≈ 28'31		retrograde	2841 Jun 10 11:37	7° ₩ 01'37	
retrograde	2835 May 17 00:35	12° ≈ 37'26		min. Earth dist.	2841 Aug 26 10:12		18.96482 AU
opposition	2835 Aug 02 08:48	10°≈38'29	-0°39'11	opposition	2841 Aug 27 07:34	5° ₩ 03'05	
min. Earth dist.	2835 Aug 01 14:14		18.67167 AU	direct	2841 Nov 11 14:44	3° ₩ 06'14	0 1012
direct	2835 Oct 18 03:50	8°≈39'57	10.0/10/ AC	evening set	2842 Feb 09 21:24	6° ₩ 07'13	
	2836 Jan 17 11:46	0 ≈3937 11°≈45'55		evening set	2042 FCU 09 21.24	0 7(0/13	
evening set	2830 Jan 1/ 11.40	11 ≈43 33			2042 E-L 25 12-24	70 1112	0942157
	2026 E 1 02 02 41	100 - 10110	0026122	conjunction	2842 Feb 25 13:34	7° ₩ 01'12	
conjunction	2836 Feb 02 02:41	12°≈40'42		minimum elong	2842 Feb 25 13:34	7° ₩ 01'12	
minimum elong	2836 Feb 02 02:40	12°≈40'42		max. Earth dist.	2842 Feb 26 12:28		20.98132 AU
max. Earth dist.	2836 Feb 02 22:53		20.70124 AU	morning rise	2842 Mar 13 07:49	7° ¥ 55′29	
morning rise	2836 Feb 17 18:21	13° ≈ 35'37		retrograde	2842 Jun 14 19:50	11°) €02'08	
	2836 Mar 15 00:37	15° ≈		opposition	2842 Aug 31 17:10	9° ∺ 03'33	
retrograde	2836 May 20 11:01	16° ≈ 44'07		min. Earth dist.	2842 Aug 30 19:03		18.99733 AU
	2836 Jul 30 19:10	15°R ≈		direct	2842 Nov 15 23:24	7° ₩ 06'50	
opposition	2836 Aug 05 21:59	14° ≈ 45'19	-0°41'15	evening set	2843 Feb 14 01:50	10°) €07'10	
min. Earth dist.	2836 Aug 05 02:12	14° ≈ 47'18	18.73034 AU				
direct	2836 Oct 21 16:17	12° ≈ 47'10		conjunction	2843 Mar 01 18:15	11° ∺ 01'04	-0°44'28
	2837 Jan 05 00:36	15° ≈		minimum elong	2843 Mar 01 18:15	11°) €01'04	0°44'28
evening set	2837 Jan 20 18:28	15°≈52'10		max. Earth dist.	2843 Mar 02 16:28	11°) 04′16	21.01156 AU
-				morning rise	2843 Mar 17 13:17	11° 米 55'19	
conjunction	2837 Feb 05 09:14	16°≈46'46	-0°38'09	retrograde	2843 Jun 19 03:20	15°) €01'44	
minimum elong	2837 Feb 05 09:13	16° ≈ 46'46		min. Earth dist.	2843 Sep 04 04:59		19.02552 AU
max. Earth dist.	2837 Feb 06 05:20		20.75841 AU	opposition	2843 Sep 05 02:32	13°) €03'06	
morning rise	2837 Feb 21 01:20	10 ≈ 47 43 17° ≈ 41'33	_0.,2011 /10	direct	2843 Nov 20 06:16	11° X 06'29	V .2 12
retrograde	2837 Pcb 21 01:20 2837 May 24 21:42	20°≈49'41		evening set	2844 Feb 18 05:43	14° H 06'12	
opposition	•	20 ≈4941 18°≈50'59	0.43,06	evening set	2077160 10 03.43	17 八 00 12	
	2837 Aug 10 10:40			aaniumatian	2944 Mar 04 22:46	15°) €00'04	0011116
min. Earth dist.	2837 Aug 09 14:30		18.78600 AU	conjunction	2844 Mar 04 22:46		
direct	2837 Oct 26 01:29	16°≈53'09		minimum elong	2844 Mar 04 22:46	15° ¥ 00'04	
evening set	2838 Jan 25 00:29	19° ≈ 57'16		max. Earth dist.	2844 Mar 05 22:16		21.03766 AU
				morning rise	2844 Mar 20 18:18	15° ¥ 54'17	
conjunction	2838 Feb 09 15:33	20° ≈ 51'43		retrograde	2844 Jun 22 11:44	19° 米 00′31	
minimum elong	2838 Feb 09 15:33	20° ≈ 51'43		opposition	2844 Sep 08 11:19	17° ∺ 01'48	
max. Earth dist.	2838 Feb 10 13:19	20° ≈ 54'54	20.81215 AU	min. Earth dist.	2844 Sep 07 12:48		19.04962 AU
morning rise	2838 Feb 25 07:51	21° ≈ 46′22		direct	2844 Nov 23 13:55	15°) €05'18	

evening set	2845 Feb 21 09:42	18°) 04'30		max. Earth dist.	2851 Apr 03 04:33		21.11043 AU
				morning rise	2851 Apr 18 08:29	13° Y 36′20	
conjunction	2845 Mar 09 03:07	18° ¥ 58'18 -		retrograde	2851 Jul 21 15:54	16° Y 42'41	
minimum elong	2845 Mar 09 03:07	18° ¥ 58'19		opposition	2851 Oct 07 16:04	14° Y 43'40	
max. Earth dist.	2845 Mar 10 01:59	19°) €01'35 2	21.05986 AU	min. Earth dist.	2851 Oct 06 20:30		19.10746 AU
morning rise	2845 Mar 24 23:31	19°) € 52'31		direct	2851 Dec 22 01:43	12° Y 47'37	
retrograde	2845 Jun 26 18:08	22°) € 58'38	00.40100	evening set	2852 Mar 20 13:56	15° Y 45′21	
opposition	2845 Sep 12 19:43	20°) 59′51 -			2052 4 05 12 20	1.600020120	0020122
min. Earth dist.	2845 Sep 11 21:54	21°) (02'02 1	19.07010 AU	conjunction	2852 Apr 05 12:39	16° Y 39'29	
direct	2845 Nov 27 19:18	19°) 03′25 22°) 02′11		minimum elong	2852 Apr 05 12:39	16° Y 39'29	0°39'33 21.10233 AU
evening set	2846 Feb 25 13:23	22° X 02'11		max. Earth dist.	2852 Apr 06 10:09	10° γ 42′33 17° Υ 34′07	21.10233 AU
agniumation	2846 Mar 13 07:35	22°) 55'59 -	0044142	morning rise	2852 Apr 21 14:49 2852 Jul 25 00:40	20° Y 40'39	
conjunction minimum elong	2846 Mar 13 07:35	22 X 55'59 -		retrograde opposition	2852 Jul 23 00.40 2852 Oct 10 22:59	18° Υ 41'35	0942!40
max. Earth dist.	2846 Mar 14 07:29	22° X 59'25 2		min. Earth dist.	2852 Oct 10 22:39 2852 Oct 10 03:27		19.09642 AU
morning rise	2846 Mar 29 04:36	23° H 50'12	21.07647 AU	direct	2852 Dec 25 07:45	16° Υ 45'29	19.09042 AU
retrograde	2846 Jul 01 02:34	26°) 56'14		evening set	2853 Mar 24 19:10	19° Υ 43'19	
min. Earth dist.	2846 Sep 16 04:57	24°) 59'40	19 08676 ATT	evening set	2033 Wai 24 17.10	17 (43 17	
opposition	2846 Sep 17 03:36	24°) 57'24 -		conjunction	2853 Apr 09 18:38	20° Ƴ 37'34	-0°37'59
direct	2846 Dec 02 02:10	23°) 01'04	0 49 12	minimum elong	2853 Apr 09 18:38	20° Υ 37'34	
evening set	2847 Mar 01 17:10	25°) 59'28		max. Earth dist.	2853 Apr 10 14:08		21.08837 AU
e vennig see	2017 1141 01 17.10	20 7(0) 20		morning rise	2853 Apr 25 21:54	21° Υ 32'21	21.0003, 110
conjunction	2847 Mar 17 11:51	26° ¥ 53'17 -	-0°44'21	retrograde	2853 Jul 29 08:28	24° Υ 39'05	
minimum elong	2847 Mar 17 11:51	26° ¥ 53'17		opposition	2853 Oct 15 05:55	22° Y ′39'54	-0°41'00
max. Earth dist.	2847 Mar 18 10:52	26° ¥ 56'34 2	21.09321 AU	min. Earth dist.	2853 Oct 14 12:30	22° Y 41'39	19.07951 AU
morning rise	2847 Apr 02 09:46	27°) 47'31		direct	2853 Dec 29 11:26	20° Ƴ 43'43	
Č	2847 May 18 17:06	0° Ƴ		evening set	2854 Mar 29 00:34	23° Y 41'41	
retrograde	2847 Jul 05 08:46	0° Ƴ 53'31		C			
	2847 Aug 23 13:48	30° Ŗ ₩		conjunction	2854 Apr 14 01:08	24° Y 36'05	-0°36'15
opposition	2847 Sep 21 11:20	28° ¥ 54'39 -	-0°48'42	minimum elong	2854 Apr 14 01:08	24° Y 36'05	0°36'15
min. Earth dist.	2847 Sep 20 13:37	28° ¥ 56'49 1	19.09965 AU	max. Earth dist.	2854 Apr 14 20:16	24° Y 38'48	21.06856 AU
direct	2847 Dec 06 06:22	26°) 58′24		morning rise	2854 Apr 30 05:14	25° Ƴ 30'59	
evening set	2848 Mar 04 20:52	29° ¥ 56'31		retrograde	2854 Aug 02 17:31	28° Ƴ 37'57	
	2848 Mar 05 21:50	℃		opposition	2854 Oct 19 12:42	26° Ƴ 38'38	-0°38'58
				min. Earth dist.	2854 Oct 18 19:29	26° Ƴ 40′22	19.05669 AU
conjunction	2848 Mar 20 16:24	0° Υ ′50′20 -	-0°43'48	direct	2855 Jan 02 17:50	24° Y 42'19	
minimum elong	2848 Mar 20 16:24	0° Ƴ 50′20	0°43'48	evening set	2855 Apr 02 06:21	27° Y 40'29	
max. Earth dist.	2848 Mar 21 16:13		21.10417 AU				
morning rise	2848 Apr 05 15:00	1° Y 44'38		conjunction	2855 Apr 18 07:42	28° Ƴ 35′02	
retrograde	2848 Jul 08 17:05	4° Ƴ 50'38		minimum elong	2855 Apr 18 07:42	28° Ƴ 35′02	
opposition	2848 Sep 24 18:43	2° Υ 51'44 -		max. Earth dist.	2855 Apr 19 00:50		21.04301 AU
min. Earth dist.	2848 Sep 23 20:21		19.10850 AU	morning rise	2855 May 04 12:53	29° Ƴ 30′06	
direct	2848 Dec 09 12:36	0° Y ′55'34		_	2855 May 13 15:40	0°8	
evening set	2849 Mar 09 00:47	3° Y 53'28		retrograde	2855 Aug 07 01:12	2° 8 37'20	
				opposition	2855 Oct 23 19:38	0° 8 37'50	
conjunction	2849 Mar 24 20:55	4°Υ47'21 -		min. Earth dist.	2855 Oct 23 04:32	_	19.02853 AU
minimum elong	2849 Mar 24 20:55	4° Υ 47'21	0°43′02 21.11092 AU	r: .	2855 Nov 08 16:10	30° ₹Υ 28° Υ 41'20	
max. Earth dist.	2849 Mar 25 19:35	5° Υ 41'42	21.11092 AU	direct	2856 Jan 06 21:50	0°8	
morning rise retrograde	2849 Apr 09 20:33 2849 Jul 12 24:00	5°γ41'42 8° γ 47'47		evening set	2856 Mar 03 13:39 2856 Apr 05 12:27	1° 8 39'46	
min. Earth dist.	2849 Sep 28 05:01		19.11307 AU	evening set	2830 Apr 03 12.27	1 03940	
opposition	2849 Sep 29 02:04	6° Υ 48'51 -		conjunction	2856 Apr 21 14:55	2° 8 34'29	0°32'13
direct	2849 Dec 13 16:20	4° Υ ′52'44	-0 4/00	minimum elong	2856 Apr 21 14:55	2° 8 34'29	
evening set	2850 Mar 13 04:52	7° Υ ′50'31		max. Earth dist.	2856 Apr 22 07:47		21.01251 AU
evening set	2030 Will 13 04.32	7 1 30 31		morning rise	2856 May 07 20:57	3° 8 29'44	21.01231710
conjunction	2850 Mar 29 01:57	8° Υ '44'28 -	-0°42'04	retrograde	2856 Aug 10 10:45	6° 8 37'14	
minimum elong	2850 Mar 29 01:57	8° Y '44'28		min. Earth dist.	2856 Oct 26 11:22		18.99567 AU
max. Earth dist.	2850 Mar 30 00:59		21.11319 AU	opposition	2856 Oct 27 02:19	4° 8 37'33	
morning rise	2850 Apr 14 02:18	9° Υ '38'53		direct	2857 Jan 10 04:17	2° 8 40'51	=-
retrograde	2850 Jul 17 08:21	12° Y 45'04		evening set	2857 Apr 09 19:07	5° 8 39'38	
min. Earth dist.	2850 Oct 02 11:39	10° Y 48'15 1	19.11283 AU	Č	1		
opposition	2850 Oct 03 08:56	10° Ƴ 46'07 -		conjunction	2857 Apr 25 22:26	6° 8 34'32	-0°29'58
direct	2850 Dec 17 22:08	8° Y 50'03		minimum elong	2857 Apr 25 22:26	6° 8 34'32	
evening set	2851 Mar 17 09:23	11° Ƴ 47'47		max. Earth dist.	2857 Apr 26 13:21		20.97755 AU
S				morning rise	2857 May 12 05:35	7° 8 29'58	
conjunction	2851 Apr 02 07:06	12° Ƴ 41'48 -	-0°40'54	retrograde	2857 Aug 14 18:48	10° 8 37'49	
minimum elong	2851 Apr 02 07:06	12° Y ′41'48	0°40'54	opposition	2857 Oct 31 09:15	8° 8 37'56	-0°31'46
-	-						

min. Earth dist.	2857 Oct 30 20:24	_	18.95874 AU	opposition	2863 Nov 25 06:37	3° Ц 02'17	
direct	2858 Jan 14 08:39	6° 8 41'00		min. Earth dist.	2863 Nov 25 00:53		18.67318 AU
evening set	2858 Apr 14 02:11	9° 8 40'12		direct	2864 Feb 07 21:23	1° Ⅱ 03'55	
	2050 1 20 06 27	100 425110	0027122	evening set	2864 May 08 10:47	4° Ⅱ 07'17	
conjunction	2858 Apr 30 06:37	10° 8 35'19		agniumation	2064 May 24 21:00	5° Ⅱ 03'54	0910120
minimum elong max. Earth dist.	2858 Apr 30 06:37 2858 Apr 30 21:10	. •	20.93881 AU	conjunction	2864 May 24 21:08	5° П 03'54	
morning rise	2858 May 16 14:35	10 8 37 23	20.93881 AU	minimum elong behind sun begin	2864 May 24 21:08 2864 May 24 15:56	5° П 03'10	0 1030
retrograde	2858 Aug 19 05:03	14° 8 39'09		behind sun end	2864 May 25 02:20	5° Π 0310	
opposition	2858 Nov 04 16:00	12° 8 39'06	-0°29'02	max. Earth dist.	2864 May 25 03:22		20.64519 AU
min. Earth dist.	2858 Nov 04 10:00 2858 Nov 04 03:14	_	18.91820 AU	morning rise	2864 Jun 10 10:28	6° П 01'00	20.04317 AC
direct	2859 Jan 18 14:54	10° 8 41'55	10.71020710	retrograde	2864 Sep 13 02:48	9° Ⅱ 12'14	
evening set	2859 Apr 18 09:55	13° 8 41'38		opposition	2864 Nov 28 15:20	7° Ⅱ 11′25	-0°09'47
evening see	2009 ripi 10 09.00	13 🔾 11 30		min. Earth dist.	2864 Nov 28 10:15		18.61608 AU
conjunction	2859 May 04 15:12	14° 8 36'58	-0°25'00	direct	2865 Feb 11 06:34	5° Ⅱ 12'45	10.01000710
minimum elong	2859 May 04 15:12	_	0°25'00	evening set	2865 May 12 23:22	8° I 17'04	
max. Earth dist.	2859 May 05 03:48	_	20.89668 AU	evening sec	2000 1114) 12 25.22	0 217 01	
	2859 May 11 08:10	15° 8		conjunction	2865 May 29 10:33	9° Ⅱ 13'59	-0°07'19
morning rise	2859 May 21 00:12	15° 8 32'49		minimum elong	2865 May 29 10:33	9° Ⅱ 13'59	
retrograde	2859 Aug 23 14:09	18° 8 41'26		behind sun begin	2865 May 29 04:24	9° Ⅱ 13'07	
opposition	2859 Nov 08 23:13	16° 8 41'13	-0°26'08	behind sun end	2865 May 29 16:42	9° Ⅱ 14'51	
min. Earth dist.	2859 Nov 08 12:30		18.87459 AU	max. Earth dist.	2865 May 29 14:24		20.58647 AU
min. Eurin Gigt.	2859 Dec 28 13:12	15°R 8	10.07 105 110	morning rise	2865 Jun 15 00:42	10° Ⅱ 11'22	20.00017110
direct	2860 Jan 22 19:45	14° 8 43'48		retrograde	2865 Sep 17 14:46	13° Ⅱ 23'11	
	2860 Feb 16 19:23	15° 8		opposition	2865 Dec 03 00:49	11° Ⅱ 22'14	-0°06'14
evening set	2860 Apr 21 18:00	17° 8 44'05		min. Earth dist.	2865 Dec 02 22:26	11° Ⅱ 22'29	18.55576 AU
<i>8</i>	r			direct	2866 Feb 15 13:49	9° Ⅱ 23'16	
conjunction	2860 May 08 00:27	18° 8 39'39	-0°22'19	evening set	2866 May 17 12:43	12° Ⅱ 28'33	
minimum elong	2860 May 08 00:27	18° 8 39'39		C	,		
max. Earth dist.	2860 May 08 12:36	18° 8 41'23	20.85172 AU	conjunction	2866 Jun 03 00:52	13° Ⅱ 25'47	-0°04'05
morning rise	2860 May 24 10:18	19° 8 35'44		minimum elong	2866 Jun 03 00:52	13° Ⅱ 25'47	0°04'05
retrograde	2860 Aug 27 01:33	22° 8 44'48		behind sun begin	2866 Jun 02 18:14	13° Ⅱ 24'50	
opposition	2860 Nov 12 06:31	20° 8 44'26	-0°23'06	behind sun end	2866 Jun 03 07:30	13° Ⅱ 26'43	
min. Earth dist.	2860 Nov 11 19:54	20° 8 45'32	18.82816 AU	max. Earth dist.	2866 Jun 03 03:03	13° Ⅱ 26′03	20.52458 AU
direct	2861 Jan 26 02:18	18° 8 46'47		morning rise	2866 Jun 19 15:40	14° Ⅱ 23'25	
evening set	2861 Apr 26 03:06	21° 8 47'44		retrograde	2866 Sep 22 06:26	17° Ⅱ 35'51	
				opposition	2866 Dec 07 10:36	15° ∏ 34'44	-0°02'36
conjunction	2861 May 12 10:25	22° 8 43'32	-0°19'31	min. Earth dist.	2866 Dec 07 09:01	15° Ⅱ 34'54	18.49220 AU
minimum elong	2861 May 12 10:25	22° 8 43'32	0°19'31	direct	2867 Feb 20 00:57	13° ∏ 35′25	
max. Earth dist.	2861 May 12 20:33	22° 8 44'59	20.80395 AU	evening set	2867 May 22 03:04	16° Ⅱ 41'43	
morning rise	2861 May 28 21:18	23° 8 39'52					
retrograde	2861 Aug 31 11:51	26° 8 49'24		conjunction	2867 Jun 07 16:00	17° Ⅲ 39'15	-0°00'45
opposition	2861 Nov 16 14:08	24° 8 48'55	-0°19'56	minimum elong	2867 Jun 07 16:00	17° Ⅱ 39'15	0°00'45
min. Earth dist.	2861 Nov 16 05:45	24° 8 49'47	18.77909 AU	behind sun begin	2867 Jun 07 09:17	17° Ⅱ 38'18	
direct	2862 Jan 30 07:40	22° 8 51'01		behind sun end	2867 Jun 07 22:44	17° Ⅱ 40'12	
evening set	2862 Apr 30 12:48	25° 8 52'42		max. Earth dist.	2867 Jun 07 15:50	17° ∏ 39'14	20.45945 AU
				morning rise	2867 Jun 24 07:29	18° Ⅱ 37'10	
conjunction	2862 May 16 21:15	26° 8 48'47		asc. node	2867 Aug 27 14:57	21° Ⅱ 27'16	
minimum elong	2862 May 16 21:15	26° 8 48'47		retrograde	2867 Sep 26 19:09	21° II 50'11	
max. Earth dist.	2862 May 17 06:38		20.75370 AU	opposition	2867 Dec 11 21:06	19° Ⅱ 48'54	
morning rise	2862 Jun 02 08:55	27° 8 45'21		min. Earth dist.	2867 Dec 11 22:11		18.42567 AU
	2862 Jul 18 21:54	$\Pi^{\circ 0}$		direct	2868 Feb 24 09:47	17° ∏ 49'11	
retrograde	2862 Sep 05 00:52	0° I 55′26		evening set	2868 May 25 18:10	20° Ⅱ 56'32	
	2862 Oct 24 02:49	30° ₹ 8				_	
opposition	2862 Nov 20 22:05	28° 8 54'49		conjunction	2868 Jun 11 08:02	21° ∏ 54'22	0°02'40
min. Earth dist.	2862 Nov 20 13:57		18.72746 AU	minimum elong	2868 Jun 11 08:01	21° I I54'22	0°02'40
direct	2863 Feb 03 15:20	26° 8 56'42		behind sun begin	2868 Jun 11 01:17	21° II 53'25	
evening set	2863 May 04 23:20	29° 8 59'11		behind sun end	2868 Jun 11 14:45	21° II 55'20	20.20177
	2863 May 05 05:09	Π $^{\circ}$ 0		max. Earth dist.	2868 Jun 11 06:00		20.39175 AU
	20/23/4 24 22 2	00115	0012225	morning rise	2868 Jun 28 00:09	22° I 52'34	
conjunction	2863 May 21 08:37	0° I 55'32		retrograde	2868 Sep 30 11:28	26° I I06'11	
minimum elong	2863 May 21 08:36	0° П 55'32	0°13'35	opposition	2868 Dec 15 07:57	24° ∏ 04'42	
behind sun begin	2863 May 21 05:01	0°II55'01		min. Earth dist.	2868 Dec 15 09:53		18.35678 AU
behind sun end	2863 May 21 12:12	0° I I56′02	20.70076 ***	direct	2869 Feb 27 22:38	22° I I04'33	
max. Earth dist.	2863 May 21 15:58		20.70076 AU	evening set	2869 May 30 10:21	25° Ⅱ 13'00	
morning rise	2863 Jun 06 21:12	1° I 52′22			20/0 L 1/ 00 55	20T11100	0905150
retrograde	2863 Sep 09 12:00	5° Ⅱ 03'00		conjunction	2869 Jun 16 00:57	26° Ⅱ 11'09	0 03/39

minimum elong	2869 Jun 16 00:57	26° Ⅱ 11'09	0°05'59	conjunction	2875 Jul 13 23:54	22° © 28'56	0°24'53
behind sun begin	2869 Jun 15 18:31	26° Ⅱ 10'14		minimum elong	2875 Jul 13 23:54	22° © 28'56	0°24'53
behind sun end	2869 Jun 16 07:22	26° Ⅱ 12'04		max. Earth dist.	2875 Jul 13 10:41	22° © 26'58	19.90183 AU
max. Earth dist.	2869 Jun 15 20:52	26° Ⅱ 10'35	20.32185 AU	morning rise	2875 Jul 30 18:07	23°529'00	
morning rise	2869 Jul 02 17:35	27° Ⅱ 09'37		retrograde	2875 Nov 01 10:34	26°9547'00	
	2869 Sep 04 11:01	0 \circ \odot		opposition	2876 Jan 15 04:57	24°9544'26	0°29'15
retrograde	2869 Oct 05 01:06	0°\$23'50		min. Earth dist.	2876 Jan 15 16:53	24°5543'09	17.86921 AU
	2869 Nov 04 21:44	30° Ŗ Ⅱ		direct	2876 Mar 30 00:35	22°5641'23	
opposition	2869 Dec 19 19:21	28° II 22'08	0°08'25	evening set	2876 Jul 01 04:39	25°\$58'34	
min. Earth dist.	2869 Dec 19 23:48	28° Ⅲ 21'40	18.28617 AU	•			
direct	2870 Mar 04 09:11	26° Ⅲ 21'32		conjunction	2876 Jul 17 22:48	26° © 58'49	0°27'42
evening set	2870 Jun 04 03:20	29° Ⅱ 31'08		minimum elong	2876 Jul 17 22:48	26° © 58'49	0°27'42
	2870 Jun 12 09:54	0°ಅ		max. Earth dist.	2876 Jul 17 07:14		19.83733 AU
	20,00011 12 05.01	0 0		morning rise	2876 Aug 03 17:11	27° © 59'07	17.05,55110
conjunction	2870 Jun 20 18:38	0°929'35	0°09'16	morning rise	2876 Sep 10 22:53	0°Ω	
minimum elong	2870 Jun 20 18:39	0°929'35	0°09'17	retrograde	2876 Nov 05 07:26	1° Ω 17'46	
behind sun begin	2870 Jun 20 13:00	0°928'46	0 0717	retrograde	2877 Jan 01 05:03	30°RS	
behind sun end	2870 Jun 20 13:00 2870 Jun 21 00:17	0°930'24		omnosition	2877 Jan 01 03:03 2877 Jan 18 21:05	29° © 15'10	0°32'18
			20.25002.411	opposition min. Earth dist.			
max. Earth dist.	2870 Jun 20 12:41		20.25082 AU		2877 Jan 19 09:55		17.80588 AU
morning rise	2870 Jul 07 11:48	1°528'20		direct	2877 Apr 03 18:22	27°©11'47	
retrograde	2870 Oct 09 18:15	4°543'09			2877 Jun 27 11:42	0° N	
opposition	2870 Dec 24 07:18	2° © 41'15	0°12'05	evening set	2877 Jul 06 04:17	0° Ω 30'19	
min. Earth dist.	2870 Dec 24 12:26		18.21480 AU			_	
direct	2871 Mar 08 23:00	0°940'12		conjunction	2877 Jul 22 22:45	1° Ω 30'51	0°30'22
evening set	2871 Jun 08 21:03	3°950'58		minimum elong	2877 Jul 22 22:45	1° Ω 30'51	0°30'23
				max. Earth dist.	2877 Jul 22 06:46		19.77496 AU
conjunction	2871 Jun 25 13:03	4° 5 49'44	0°12'32	morning rise	2877 Aug 08 16:50	2° Ω 31'22	
minimum elong	2871 Jun 25 13:03	4° 5 49'44	0°12'32	retrograde	2877 Nov 10 04:13	5° Ω 50'39	
behind sun begin	2871 Jun 25 08:47	4° 5 49'07		opposition	2878 Jan 23 14:02	3° Ω 48′03	0°35'11
behind sun end	2871 Jun 25 17:18	4°950'21		min. Earth dist.	2878 Jan 24 04:20	3° Ω 46'30	17.74460 AU
max. Earth dist.	2871 Jun 25 05:38	4° 5 48'39	20.17920 AU	direct	2878 Apr 08 12:02	1° Ω 44'22	
morning rise	2871 Jul 12 06:32	5° © 48'45		evening set	2878 Jul 11 04:59	5° Ω 04'14	
retrograde	2871 Oct 14 09:30	9° 5 04'12					
opposition	2871 Dec 28 19:58	7°ഇ02'06	0°15'41	conjunction	2878 Jul 27 23:23	6° Ω 05'00	0°32'52
min. Earth dist.	2871 Dec 29 03:15	7° © 01'20	18.14327 AU	minimum elong	2878 Jul 27 23:23	6° Ω 05'00	0°32'52
direct	2872 Mar 12 11:26	5° © 00'37		max. Earth dist.	2878 Jul 27 04:49	6° Ω 02'11	19.71477 AU
evening set	2872 Jun 12 15:53	8°912'36		morning rise	2878 Aug 13 17:25	7° Ω 05'44	
3				retrograde	2878 Nov 15 02:40	10°Ω25'38	
conjunction	2872 Jun 29 08:27	9° © 11'40	0°15'45	opposition	2879 Jan 28 07:51	8° Ω 23'00	0°37'53
minimum elong	2872 Jun 29 08:27	9°9511'40		min. Earth dist.	2879 Jan 28 23:20	_	17.68555 AU
max. Earth dist.	2872 Jun 28 23:02		20.10796 AU	direct	2879 Apr 13 07:14	6° Ω 19'00	17.00555710
morning rise	2872 Jul 16 02:22	10°9510'58	20.10790710	evening set	2879 Jul 16 06:17	9° Ω 40'09	
retrograde	2872 Jul 10 02:22 2872 Oct 18 03:28	10 \$10 38 13°\$27'02		max. Earth dist.	2879 Aug 01 06:02		19.65659 AU
opposition	2872 Oct 18 03:28 2873 Jan 01 09:01	13 32 7 02	0°19'14	max. Lartii dist.	2079 Aug 01 00.02	10 663617	19.03039 AU
min. Earth dist.				agnismation	2070 Aug 02 00.52	10° Ω 41'10	0°35'11
	2873 Jan 01 16:58		18.07243 AU	conjunction	2879 Aug 02 00:53		0°35'11
direct	2873 Mar 17 02:11	9°522'49		minimum elong	2879 Aug 02 00:53	10° Ω 41'10	0-35/11
evening set	2873 Jun 17 11:42	12° © 36'05		morning rise	2879 Aug 18 18:29	11° Ω 42'06	
	2072 1 04 04 50	1220025122	0010154		2879 Nov 10 09:15	15° Ω	
conjunction	2873 Jul 04 04:50	13°935'28	0°18'54	retrograde	2879 Nov 20 01:06	15° Ω 02'32	
minimum elong	2873 Jul 04 04:50	13° © 35'27			2879 Nov 29 16:47	15°R Ω	
max. Earth dist.	2873 Jul 03 18:19		20.03751 AU	opposition	2880 Feb 02 02:30	12° Ω 59'53	
morning rise	2873 Jul 20 22:51	14° © 35'00		min. Earth dist.	2880 Feb 02 19:07		17.62839 AU
retrograde	2873 Oct 22 20:37	17° © 51'43		direct	2880 Apr 17 03:00	10° Ω 55'34	
opposition	2874 Jan 05 23:00	15° © 49'19	0°22'41	evening set	2880 Jul 20 08:44	14° Ω 17'57	
min. Earth dist.	2874 Jan 06 08:46	15° © 48'16	18.00273 AU		2880 Jul 31 22:03	15° Ω	
direct	2874 Mar 21 16:31	13° © 46'58		max. Earth dist.	2880 Aug 05 05:35	15° Ω 15'53	19.60049 AU
evening set	2874 Jun 22 08:20	17° 5 01'30					
				conjunction	2880 Aug 06 03:06	15° Ω 19'11	0°37'16
conjunction	2874 Jul 09 01:48	18° © 01'11	0°21'57	minimum elong	2880 Aug 06 03:06	15° Ω 19'11	0°37'17
minimum elong	2874 Jul 09 01:48	18° © 01'11	0°21'56	morning rise	2880 Aug 22 20:28	16° Ω 20′18	
max. Earth dist.	2874 Jul 08 13:13	17° 9 59'18	19.96869 AU	retrograde	2880 Nov 24 00:07	19° Ω 41'14	
morning rise	2874 Jul 25 20:06	19° 5 00'59		opposition	2881 Feb 05 21:49	17° Ω 38'32	0°42'34
retrograde	2874 Oct 27 15:39	22°518'21		min. Earth dist.	2881 Feb 06 15:51		17.57356 AU
opposition	2875 Jan 10 13:35	20°©15'50	0°26'02	direct	2881 Apr 21 23:41	15° Ω 33'52	
min. Earth dist.	2875 Jan 10 23:56		17.93492 AU	evening set	2881 Jul 25 11:41	18° Ω 57'26	
direct	2875 Mar 26 08:40	18°913'07		max. Earth dist.	2881 Aug 10 08:25		19.54685 AU
evening set	2875 Jun 27 05:57	21°528'58					
	2, 00.07						

conjunction	2881 Aug 11 06:03	19° Ω 58'53	0°39'08	opposition	2888 Mar 10 07:24	20° m 44'09	0°49'43
minimum elong	2881 Aug 11 06:03	19° Ω 58'53	0°39'08	min. Earth dist.	2888 Mar 11 03:41	-•	17.29989 AU
morning rise	2881 Aug 27 22:48	21°Ω00'08	0 37 00	direct	2888 May 25 04:17	18° m 37'41	17.27707110
retrograde	2881 Nov 28 23:22	24° Ω 21'31		evening set	2888 Aug 28 19:58	22° mp 07'15	
opposition	2882 Feb 10 17:56	22°Ω18'46	0°44'31	max. Earth dist.	2888 Sep 13 10:35		19.29043 AU
min. Earth dist.	2882 Feb 11 12:32		17.52131 AU	max. Earth dist.	2000 Sep 13 10.33	25 11/0554	17.27043710
direct	2882 Apr 26 22:02	20° Ω 13'48	17.32131710	conjunction	2888 Sep 14 10:41	23° m 09'20	0°44'28
evening set	2882 Jul 30 15:12	23° Ω 38'27		minimum elong	2888 Sep 14 10:41	23° m 09'20	0°44'28
max. Earth dist.	2882 Aug 15 09:28		19.49616 AU	morning rise	2888 Sep 30 22:08	24° m 10'59	0 44 20
max. Lattii dist.	2002 Aug 13 09.20	24 063024	19.49010 AU	•	2888 Dec 31 20:43	27° m) 34'04	
:	2002 A 16 00-00	249 0 40102	0940145	retrograde	2889 Mar 15 07:36	~	0940124
conjunction	2882 Aug 16 09:09	24° Ω 40′03	0°40'45	opposition min. Earth dist.		25° m 31'08	0°49'24
minimum elong	2882 Aug 16 09:08	24° Ω 40'03	0°40'46		2889 Mar 16 04:35		17.28356 AU
morning rise	2882 Sep 02 01:28	25° Ω 41'27		direct	2889 May 30 05:40	23° m 24'37	
retrograde	2882 Dec 03 21:55	29° Ω 03'15	004649	evening set	2889 Sep 03 01:22	26° Mp 54'41	
opposition	2883 Feb 15 14:46	27° Ω 00′24			2000 0 10 15 10	250 7 50146	004400
min. Earth dist.	2883 Feb 16 10:43		17.47247 AU	conjunction	2889 Sep 19 15:10	27° m 56'46	0°44'02
direct	2883 May 01 20:07	24° Ω 55'07		minimum elong	2889 Sep 19 15:10	27° m 56'46	0°44'02
evening set	2883 Aug 04 19:11	28° Ω 20'48		max. Earth dist.	2889 Sep 18 15:10	27° m 52'59	19.27749 AU
				morning rise	2889 Oct 06 01:46	28° m 58'23	
conjunction	2883 Aug 21 12:56	29° Ω 22'34			2889 Oct 23 10:40	0∘ ರಾ	
minimum elong	2883 Aug 21 12:56	29° £ 22'34	0°42'06	retrograde	2890 Jan 05 22:42	2° ≏ 21'31	
max. Earth dist.	2883 Aug 20 13:25	29° Ω 18'55	19.44917 AU	opposition	2890 Mar 20 08:12	0° ≏ 18'42	0°48'45
	2883 Aug 31 14:57	0° m)		min. Earth dist.	2890 Mar 21 03:46	0° ჲ 16'33	17.27381 AU
morning rise	2883 Sep 07 04:35	0° Mp 24'03			2890 Mar 27 11:32	30°R, Mp	
retrograde	2883 Dec 08 21:43	3° m 46'12		direct	2890 Jun 04 09:35	28° Mp 12'10	
opposition	2884 Feb 20 12:00	1° m)43'17	0°47'33		2890 Aug 09 02:49	0∘ ত	
min. Earth dist.	2884 Feb 21 07:59	1° Mp 41'05	17.42749 AU	evening set	2890 Sep 08 06:31	1° ≏ 42'38	
	2884 Apr 06 17:06	30°RΩ		Č	1		
direct	2884 May 05 21:03	29° Ω 37'41		conjunction	2890 Sep 24 19:33	2° £ 44'40	0°43'17
	2884 Jun 03 19:26	0°m		minimum elong	2890 Sep 24 19:33	2° £ 44'40	0°43'18
evening set	2884 Aug 08 23:47	3° Mp 04'20		max. Earth dist.	2890 Sep 23 20:55		19.27085 AU
evening sec	2001 Hug 00 23:17	3 1120120		morning rise	2890 Oct 11 05:00	3° £ 46'13	19.27003710
conjunction	2884 Aug 25 17:00	4° Mp 06'13	0°43'11	retrograde	2891 Jan 10 23:13	7° ⊆ 09'22	
minimum elong	2884 Aug 25 17:00	4° Mp 06'13	0°43'11	opposition	2891 Mar 25 09:21	7 ⊆ 0722 5° ⊆ 06'42	0°47'45
max. Earth dist.	2884 Aug 24 16:06	4° Mp 02'21		min. Earth dist.	2891 Mar 26 05:28		17.27019 AU
			19.40030 AU	direct	2891 Jun 09 11:50	3° ⊆ 0430	17.27019 AU
morning rise	2884 Sep 11 08:00	5° Mp 07'47			2891 Sep 13 11:51	6° £ 30'58	
retrograde	2884 Dec 12 20:10	8° Mp 30'13	0040127	evening set	2891 Sep 13 11.31	0 == 30 38	
opposition	2885 Feb 24 10:04	6° Mp 27'14	0°48'36		2001 G 20 22 40	70 0 22156	0042114
min. Earth dist.	2885 Feb 25 07:18		17.38716 AU	conjunction	2891 Sep 29 23:48	7° Ω 32'56	
direct	2885 May 10 20:53	4° m) 21'21		minimum elong	2891 Sep 29 23:48	7° £ 32'56	
evening set	2885 Aug 14 04:29	7° m 48'52		max. Earth dist.	2891 Sep 29 00:52		19.27019 AU
				morning rise	2891 Oct 16 08:22	8° £ 34'24	
conjunction	2885 Aug 30 21:14	8° m 50'50	0°43'57	retrograde	2892 Jan 16 01:00	11° ≏ 57'29	
minimum elong	2885 Aug 30 21:14	8° m 50'50	0°43'58	opposition	2892 Mar 29 10:36	9° ≙ 54'58	0°46'26
max. Earth dist.	2885 Aug 29 20:39		19.36853 AU	min. Earth dist.	2892 Mar 30 05:29		17.27228 AU
morning rise	2885 Sep 16 11:25	9° m ,52'28		direct	2892 Jun 13 15:59	7° ≏ 48'33	
retrograde	2885 Dec 17 20:39	13° m 15'08		evening set	2892 Sep 17 16:54	11° ≏ 19'28	
opposition	2886 Mar 01 08:36	11° m) 12'07		max. Earth dist.	2892 Oct 03 06:45	12° ≏ 18′00	19.27490 AU
min. Earth dist.	2886 Mar 02 05:10		17.35200 AU				
direct	2886 May 15 23:48	9° m 05'59		conjunction	2892 Oct 04 04:01	12° ≙ 21'21	0°40'54
evening set	2886 Aug 19 09:31	12°M/34'16		minimum elong	2892 Oct 04 04:01	12° ≏ 21'21	0°40'54
max. Earth dist.	2886 Sep 04 00:42	13° m 32'25	19.33618 AU	morning rise	2892 Oct 20 11:18	13° ≏ 22'42	
				retrograde	2893 Jan 20 01:49	16° ≏ 45'39	
conjunction	2886 Sep 05 01:36	13° m 36'18	0°44'26	opposition	2893 Apr 03 12:29	14° ≙ 43'18	0°44'46
minimum elong	2886 Sep 05 01:36	13° Mp 36'18	0°44'25	min. Earth dist.	2893 Apr 04 07:34	14° ≏ 41'13	17.27951 AU
morning rise	2886 Sep 21 14:56	14° m) 37'58		direct	2893 Jun 18 19:15	12° ≏ 36'59	
retrograde	2886 Dec 22 19:29	18° m 00'49		evening set	2893 Sep 22 21:39	16° ≏ 07'56	
opposition	2887 Mar 06 07:46	15° m) 57'47	0°49'41	max. Earth dist.	2893 Oct 08 09:56		19.28467 AU
min. Earth dist.	2887 Mar 07 05:15		17.32281 AU			,,	
direct	2887 May 21 00:27	13° m 51'27		conjunction	2893 Oct 09 07:32	17° ჲ 09'40	0°39'16
evening set	2887 Aug 24 14:37	17° Mp 20'25		minimum elong	2893 Oct 09 07:32 2893 Oct 09 07:32	17° ⊆ 09'40	0°39'16
max. Earth dist.	2887 Sep 09 05:25	-	19.31012 AU	morning rise	2893 Oct 09 07:32 2893 Oct 25 13:53	17 ≥ 0940 18° ⊆ 10'53	3 37 10
max. Darui uist.	2007 Sep 09 03.23	10 11/10 20	17.31012 AU	retrograde	2894 Jan 25 02:44	21° £ 33'41	
conjunction				-			00.42140
e a management	2887 San 10 06:02	180 mm 22120	0°14'36	onnocition			
	2887 Sep. 10, 06:03	18° Mp 22'30		opposition	2894 Apr 08 14:27	19° Ω 31'27	0°42'48
minimum elong	2887 Sep 10 06:03	18° m 22'30	0°44'36 0°44'37	min. Earth dist.	2894 Apr 09 08:18	19° ≏ 29'30	0°42′48 17.29171 AU
	•	=			•		

	2004 0-4 14 10.52	21° ≙ 57'40	0927122		2000 N 12 15.45	200 m 26111	0921115
conjunction	2894 Oct 14 10:53			minimum elong	2900 Nov 12 15:45	20°M26'11	
minimum elong	2894 Oct 14 10:54	21° ♀ 57'40	0°37'22	max. Earth dist.	2900 Nov 12 04:17		19.48376 AU
max. Earth dist.	2894 Oct 13 15:16		19.29919 AU	morning rise	2900 Nov 28 14:44	21°M25'55	
morning rise	2894 Oct 30 16:00	22° ≏ 58'44		retrograde	2901 Feb 27 18:12	24°M45'47	
retrograde	2895 Jan 30 03:15	26° ≏ 21'16		opposition	2901 May 13 02:52	22°M44'20	0°21'53
opposition	2895 Apr 13 16:30	24° ≙ 19'10	0°40'32	min. Earth dist.	2901 May 13 11:57	22°M43'22	17.50716 AU
min. Earth dist.	2895 Apr 14 10:03	24° ₽ 17'16	17.30846 AU	direct	2901 Jul 29 04:46	20°M39'18	
direct	2895 Jun 29 04:00	22° ₽ 13'05		evening set	2901 Nov 01 12:08	24°M06'06	
evening set	2895 Oct 03 05:47	25° ♀ 43'42					
-				conjunction	2901 Nov 17 13:26	25°M06'02	0°18'00
conjunction	2895 Oct 19 13:34	26° ≗ 45'07	0°35'13	minimum elong	2901 Nov 17 13:26	25°M06'02	0°17'59
minimum elong	2895 Oct 19 13:34	26° £ 45'07	0°35'13	max. Earth dist.	2901 Nov 17 03:52		19.53190 AU
max. Earth dist.	2895 Oct 19 13:34 2895 Oct 18 17:44	26° - 41'59		morning rise	2901 Nov 17 03:32 2901 Dec 03 11:29	26°M05'31	17.33170 AC
			19.31626 AU	-			
morning rise	2895 Nov 04 17:45	27° £ 46'00		retrograde	2902 Mar 04 14:29	29°M24'50	
_	2895 Dec 16 00:15	0° M ₊		opposition	2902 May 18 03:42	27°M23'31	
retrograde	2896 Feb 04 02:35	1°ML08'14		min. Earth dist.	2902 May 18 11:43		17.55788 AU
	2896 Mar 27 07:27	30° ₹ Ω		direct	2902 Aug 03 05:08	25°M18'48	
opposition	2896 Apr 17 18:37	29° ≏ 06'14	0°37'59	evening set	2902 Nov 06 10:05	28°M44'40	
min. Earth dist.	2896 Apr 18 11:07	29° ₽ 04'27	17.32980 AU				
direct	2896 Jul 03 08:34	27° ♀ 00'16		conjunction	2902 Nov 22 10:24	29°M44'19	0°14'38
	2896 Sep 28 23:17	0°M₊		minimum elong	2902 Nov 22 10:23	29°M44'19	0°14'39
evening set	2896 Oct 07 08:52	0°ML30'33		behind sun begin	2902 Nov 22 07:31	29°M43'52	
evening set	2070 001 07 00.32	0 1103033		behind sun end	2902 Nov 22 13:16	29°M44'45	
:	2006 0-4 22 15.42	1° M L31'46	0922140				10 50514 ATT
conjunction	2896 Oct 23 15:42		0°32'49	max. Earth dist.	2902 Nov 22 02:48		19.58514 AU
minimum elong	2896 Oct 23 15:42	1°M31'46	0°32'48		2902 Nov 26 14:35	0° ⊼	
max. Earth dist.	2896 Oct 22 22:03		19.34187 AU	morning rise	2902 Dec 08 07:37	0° ≯ 43'31	
morning rise	2896 Nov 08 18:39	2°M32'26		retrograde	2903 Mar 09 12:36	4° ≯ 02'14	
retrograde	2897 Feb 08 02:07	5° M 54'18		opposition	2903 May 23 03:50	2° ₹ 01'08	0°14'24
opposition	2897 Apr 22 20:43	3°M52'25	0°35'11	min. Earth dist.	2903 May 23 09:07	2° ҂ ¹00'34	17.61324 AU
min. Earth dist.	2897 Apr 23 12:12	3°M50'45	17.35552 AU		2903 Jul 28 02:02	30°RM₊	
direct	2897 Jul 08 14:10	1°ML46'37		direct	2903 Aug 08 07:22	29°M56'45	
evening set	2897 Oct 12 11:22	5°M16'23			2903 Aug 19 11:03	0° ⊼	
Č				evening set	2903 Nov 11 07:10	3° ҂ ¹21'39	
conjunction	2897 Oct 28 16:58	6°ML17'23	0°30'11				
minimum elong	2897 Oct 28 16:58	6°M17'23	0°30'12	conjunction	2903 Nov 27 06:30	4° ∡ °20'59	0°11'13
max. Earth dist.	2897 Oct 27 23:44		19.37001 AU	minimum elong	2903 Nov 27 06:30	4°×720'59	0°11'13
			19.37001 AU	_			0 11 13
morning rise	2897 Nov 13 18:58	7°M17'51		behind sun begin	2903 Nov 27 01:35	4°×720'14	
retrograde	2898 Feb 13 00:06	10°MJ39'17		behind sun end	2903 Nov 27 11:25	4° ₹ 21'44	
opposition	2898 Apr 27 22:39	8°MJ37′29		max. Earth dist.	2903 Nov 27 01:06		19.64263 AU
min. Earth dist.	2898 Apr 28 13:06		17.38606 AU	morning rise	2903 Dec 13 02:49	5° ∡ 19'55	
direct	2898 Jul 13 18:04	6° M 31'49		retrograde	2904 Mar 13 07:31	8° ≯ 38'02	
evening set	2898 Oct 17 12:46	10°M01'00		opposition	2904 May 27 03:52	6° ₰ ³37'08	0°10'33
				min. Earth dist.	2904 May 27 08:20	6° х 36′40	17.67266 AU
conjunction	2898 Nov 02 17:25	11° M .01'46	0°27'22	direct	2904 Aug 12 06:35	4° ∡ ³33'09	
minimum elong	2898 Nov 02 17:25	11° M .01'46	0°27'22	evening set	2904 Nov 15 03:14	7° ∡¹ 56'59	
max. Earth dist.	2898 Nov 02 02:31	10°ML59'25	19.40298 AU				
morning rise	2898 Nov 18 18:21	12°ML02'00		conjunction	2904 Dec 01 01:32	8° ∡ 756'01	0°07'45
	2899 Jan 20 06:35	15°M		minimum elong	2904 Dec 01 01:32	8° ∡ 756'01	0°07'45
retrograde	2899 Feb 17 22:49	15°M22'57		behind sun begin	2904 Nov 30 19:34	8° ₹ 55'07	0 07 15
retrograde		15°RM		behind sun end	2904 Nov 30 17:34 2904 Dec 01 07:30	8° ₹ 56'55	
***	2899 Mar 19 06:29		0020152				10.70204 ATT
opposition	2899 May 03 00:20	13°M21'15		max. Earth dist.	2904 Nov 30 21:43		19.70384 AU
min. Earth dist.	2899 May 03 13:00		17.42129 AU	morning rise	2904 Dec 16 21:10	9° ∡ 754'39 −	
direct	2899 Jul 18 23:03	11°M15'46		retrograde	2905 Mar 18 04:51	13° ≯ 12'11	
evening set	2899 Oct 22 13:33	14° M 44'14		opposition	2905 Jun 01 03:21	11° √ 11′29	
	2899 Oct 26 19:40	15° M ₊		min. Earth dist.	2905 Jun 01 05:00	11° ∤ 711'18	17.73529 AU
				direct	2905 Aug 17 08:00	9° ₰ 07'54	
conjunction	2899 Nov 07 17:00	15° M .44'44	0°24'23	evening set	2905 Nov 19 22:26	12° ∡ ³30'38	
minimum elong	2899 Nov 07 17:00	15°M44'44	0°24'22				
max. Earth dist.	2899 Nov 07 03:14		19.44074 AU	conjunction	2905 Dec 05 19:52	13° ∡ °29′21	0°04'15
morning rise	2899 Nov 23 16:58	16°M44'44		minimum elong	2905 Dec 05 19:53	13°×29'21	0°04'16
retrograde	2900 Feb 22 19:48	20°ML05'10		behind sun begin	2905 Dec 05 13:23	13° 🖈 29'21'	3 0710
•			0025120	•			
opposition	2900 May 08 01:44	18°M03'34		behind sun end	2905 Dec 06 02:22	13° ₹ 30'20	10.7/770 433
min. Earth dist.	2900 May 08 13:22		17.46165 AU	max. Earth dist.	2905 Dec 05 18:30		19.76778 AU
direct	2900 Jul 24 01:23	15°M58'16		morning rise	2905 Dec 21 14:41	14° 🗷 27'42	
evening set	2900 Oct 27 13:21	19°M25'57		retrograde	2906 Mar 22 22:15	17° ∡ °44'36 −	
				opposition	2906 Jun 06 02:21	15° ∡ °44'07	0°02'43
conjunction	2900 Nov 12 15:45	20°M26'11	0°21'15	min. Earth dist.	2906 Jun 06 03:24	15° ∡ ¹44'00	17.80041 AU

direct	2906 Aug 22 06:17	13° ∡ ¹40'56		conjunction	2912 Jan 01 14:53	10° る 09'47	-0°16'18
evening set	2906 Nov 24 16:43	17° ₹ '02'32		minimum elong	2912 Jan 01 14:53	10°る09'47	
		-, , , , , , , , , , , , , , , , , , ,		max. Earth dist.	2912 Jan 01 23:20		20.17213 AU
conjunction	2906 Dec 10 13:13	18° ∡ 00'55	0°00'41	morning rise	2912 Jan 17 06:43	11° る 06'27	
minimum elong	2906 Dec 10 13:13	18° ∡ 00'55	0°00'40	retrograde	2912 Apr 18 00:35	14° る 19'24	
behind sun begin	2906 Dec 10 06:39	17° ∡ 59′56		opposition	2912 Jul 03 07:10	12° る 19'44	-0°19'48
behind sun end	2906 Dec 10 19:47	18° ₹ '01'55		min. Earth dist.	2912 Jul 02 22:53	12° る 20'35	18.20548 AU
max. Earth dist.	2906 Dec 10 12:51	18° ∡ ¹00'54	19.83386 AU	direct	2912 Sep 18 13:06	10° る 18'44	
morning rise	2906 Dec 26 07:31	18° ₹ 58'59		evening set	2912 Dec 20 10:11	13° る 32'50	
desc. node	2907 Feb 17 11:19	21° ∡ ³36′22					
retrograde	2907 Mar 27 18:02	22° 渘 15'15		conjunction	2913 Jan 05 02:37	14° る 29'22	-0°19'25
opposition	2907 Jun 11 00:43	20° ∡ 14'56	-0°01'12	minimum elong	2913 Jan 05 02:37	14° る 29'22	0°19'24
min. Earth dist.	2907 Jun 10 23:08	20° ₹ 15'06	17.86716 AU	max. Earth dist.	2913 Jan 05 11:43	14° る 30'43	20.23920 AU
direct	2907 Aug 27 06:37	18° ∡ 12'10		morning rise	2913 Jan 20 18:22	15° る 25'46	
evening set	2907 Nov 29 10:02	21° ₹ 32'34		retrograde	2913 Apr 22 14:58	18° る 38'06	
				opposition	2913 Jul 08 01:23	16° る 38'29	
conjunction	2907 Dec 15 05:49	22° ∡ 30′39		min. Earth dist.	2913 Jul 07 14:51		18.27256 AU
minimum elong	2907 Dec 15 05:48	22° ҂ 30′39	0°02'55	direct	2913 Sep 23 06:36	14° る 37'47	
behind sun begin	2907 Dec 14 23:15	22° ≯ 29'40		evening set	2913 Dec 24 21:37	17° る 50'38	
behind sun end	2907 Dec 15 12:22	22° ≯ 31'38				_	
max. Earth dist.	2907 Dec 15 07:54		19.90109 AU	conjunction	2914 Jan 09 13:46	18° ⋜ 46'53	
morning rise	2907 Dec 30 23:20	23° ≯ 28′25		minimum elong	2914 Jan 09 13:46	18° ⋜ 46'53	
retrograde	2908 Mar 31 09:59	26° ₹ 44'02		max. Earth dist.	2914 Jan 10 01:41		20.30615 AU
opposition	2908 Jun 14 22:40	24° ₹ 43'55		morning rise	2914 Jan 25 05:10	19° る 43'03	
min. Earth dist.	2908 Jun 14 20:33		17.93481 AU	retrograde	2914 Apr 27 03:23	22°る54'44	
direct	2908 Aug 31 03:48	22° х 41'32		opposition	2914 Jul 12 18:42	20° ප 55'13	
evening set	2908 Dec 03 02:32	26° ₹ 00'43		min. Earth dist.	2914 Jul 12 07:00		18.33952 AU
	2000 D 10 21 22	260 75007	0006122	direct	2914 Sep 27 23:08	18°る54'51	
conjunction	2908 Dec 18 21:23	26° ₹ 58′27		evening set	2914 Dec 29 08:20	22° る 06'29	
minimum elong	2908 Dec 18 21:24	26° ₹ 58′28	0°06'23	. ,.	2015 1 12 22 57	2207020	0005111
behind sun begin	2908 Dec 18 15:12	26° ₹ 57'32		conjunction	2915 Jan 13 23:57	23° ろ 02'28	
behind sun end max. Earth dist.	2908 Dec 19 03:36 2908 Dec 19 00:12	26° 🖈 59'23	19.96905 AU	minimum elong max. Earth dist.	2915 Jan 13 23:57 2915 Jan 14 12:23	23°₹02'28	0°25'11 20.37309 AU
morning rise	2908 Dec 19 00.12 2909 Jan 03 14:32	20 x ·3831 27° x 55'57	19.90903 AU	morning rise	2915 Jan 29 15:23	23°る58'23	20.37309 AU
morning rise	2909 Jan 03 14.32 2909 Feb 11 16:01	27 メ ・33 37 0° る		retrograde	2915 May 01 16:28	23 3 38 23	
retrograde	2909 Apr 05 04:15	1°る10'55		opposition	2915 Jul 17 11:19	27 30929 25° る 10'04	-0°29'24
retrograde	2909 May 30 10:29	30°R. ₹		min. Earth dist.	2915 Jul 16 21:37		18.40648 AU
opposition	2909 Jun 19 19:53	29° х 10'56	-0°08'54	direct	2915 Oct 02 14:00	23° ප 10'04	10.10010110
min. Earth dist.	2909 Jun 19 15:16		18.00289 AU	evening set	2916 Jan 02 18:00	26° පි 20'31	
direct	2909 Sep 05 02:20	27°×708'55	10.00207110	evening sec	2910 3411 02 10.00	20 02031	
	2909 Nov 30 03:17	0°ප		conjunction	2916 Jan 18 09:28	27° る 16'14	-0°27'51
evening set	2909 Dec 07 17:49	0° පි 26'51		minimum elong	2916 Jan 18 09:27	27° ♂ 16'14	
<i>3</i> - 1 - 1				max. Earth dist.	2916 Jan 19 00:37	27° る 18'30	20.43978 AU
conjunction	2909 Dec 23 12:09	1° る 24'18	-0°09'46	morning rise	2916 Feb 03 00:39	28° る 11'56	
minimum elong	2909 Dec 23 12:09	1° る 24'18	0°09'46	•	2916 Mar 08 05:32	0°≈	
behind sun begin	2909 Dec 23 06:44	1° る 23'29		retrograde	2916 May 05 04:04	1° ≈ 22'29	
behind sun end	2909 Dec 23 17:33	1° る 25'06			2916 Jul 05 17:29	30°₹ ⋜	
max. Earth dist.	2909 Dec 23 17:28	1° る 25'05	20.03705 AU	opposition	2916 Jul 21 03:17	29° පි 23'11	-0°32'15
morning rise	2910 Jan 08 04:41	2° る 21'30		min. Earth dist.	2916 Jul 20 12:16	29° る 24'43	18.47289 AU
retrograde	2910 Apr 09 18:51	5° る 35'48		direct	2916 Oct 06 04:28	27° る 23'34	
opposition	2910 Jun 24 16:29	3° る 35'57	-0°12'39		2916 Dec 27 12:16	0° ≈	
min. Earth dist.	2910 Jun 24 11:17		18.07077 AU	evening set	2917 Jan 06 03:08	0° ≈ 32'53	
direct	2910 Sep 09 22:20	1° る 34'18					
evening set	2910 Dec 12 08:22	4° る 50'57		conjunction	2917 Jan 21 18:11	1° ≈ 28′21	-0°30'20
		_		minimum elong	2917 Jan 21 18:11	1° ≈ 28'21	
conjunction	2910 Dec 28 01:55	5° る 48'05		max. Earth dist.	2917 Jan 22 09:45		20.50586 AU
minimum elong	2910 Dec 28 01:55	5° る 48'05	0°13'05	morning rise	2917 Feb 06 09:35	2° ≈ 23'51	
behind sun begin	2910 Dec 27 21:54	5° る 47'29		retrograde	2917 May 09 16:35	5°≈33'53	
behind sun end	2910 Dec 28 05:56	5° る 48'41	20.10.101	opposition	2917 Jul 25 18:30	3°≈34'43	
max. Earth dist.	2910 Dec 28 07:43		20.10481 AU	min. Earth dist.	2917 Jul 25 01:55		18.53857 AU
morning rise	2911 Jan 12 18:13	6°₹45'01		direct	2917 Oct 10 17:35	1°≈35'28	
retrograde	2911 Apr 14 11:09	9° る 58'39	00177	evening set	2918 Jan 10 11:23	4° ≈ 43'42	
opposition	2911 Jun 29 12:04	7°る58'54			2010 1 26 22 22	E0 2015 1	0022120
min. Earth dist.	2911 Jun 29 04:38		18.13834 AU	conjunction	2918 Jan 26 02:28	5°≈38'56	
direct	2911 Sep 14 18:31	5°る57'34		minimum elong	2918 Jan 26 02:28	5°≈38'56	
evening set	2911 Dec 16 21:46	9° る 12'57		max. Earth dist.	2918 Jan 26 20:26		20.57075 AU
				morning rise	2918 Feb 10 17:48	6° ≈ 34'14	

retrograde	2918 May 14 03:40	9° ≈ 43'46		opposition	2924 Aug 24 11:37	2° ₩ 17'44	-0°47'31
opposition	2918 Jul 30 09:01	7° ≈ 44'46	-0°37'22	min. Earth dist.	2924 Aug 23 14:04	2°) 19′53	18.91849 AU
min. Earth dist.	2918 Jul 29 15:18	7° ≈ 46'33	18.60255 AU	direct	2924 Nov 08 22:09	0°) 20′36	
direct	2918 Oct 15 06:06	5° ≈ 45'54		evening set	2925 Feb 07 07:41	3°) 22′19	
evening set	2919 Jan 14 19:13	8° ≈ 53'04					
				conjunction	2925 Feb 22 23:18	4°) 16′23	-0°43'25
conjunction	2919 Jan 30 10:01	9° ≈ 48'05	-0°34'47	minimum elong	2925 Feb 22 23:18	4°) 16′23	
minimum elong	2919 Jan 30 10:01	9° ≈ 48′05	0°34'48	max. Earth dist.	2925 Feb 23 20:59		20.93739 AU
max. Earth dist.	2919 Jan 31 04:03		20.63370 AU	morning rise	2925 Mar 10 17:09	5°) 10'46	
morning rise	2919 Feb 15 01:39	10° ≈ 43'13		retrograde	2925 Jun 12 01:14	8° ∺ 17'38	
retrograde	2919 May 18 15:13	13° ≈ 52'18		opposition	2925 Aug 28 21:57	6° ★ 18'58	
opposition	2919 Aug 03 22:52	11°≈53'25		min. Earth dist.	2925 Aug 28 00:41		18.95588 AU
min. Earth dist.	2919 Aug 03 04:12		18.66441 AU	direct	2925 Nov 13 05:31	4°) €21'58	
direct	2919 Oct 19 17:56	9°≈54'55		evening set	2926 Feb 11 12:09	7°) €22'57	
evening set	2920 Jan 19 02:23	13°≈01'04		conjunction	2926 Feb 27 04:21	8°){ 16'56	0°44'06
conjunction	2920 Feb 03 17:19	13° ≈ 55'54	-0°36'44	minimum elong	2926 Feb 27 04:21 2926 Feb 27 04:21	8° X 16'56	
minimum elong	2920 Feb 03 17:19 2920 Feb 03 17:19	13°≈55'54		max. Earth dist.	2926 Feb 28 03:24		20.97257 AU
max. Earth dist.	2920 Feb 04 13:25		20.69415 AU	morning rise	2926 Mar 14 22:37	9°) 11'14	20.71231 AU
morning rise	2920 Feb 19 08:59	14°≈50'51	20.07413710	retrograde	2926 Jun 16 09:31	12°) 17'49	
morning rise	2920 Feb 22 00:53	15° ≈		min. Earth dist.	2926 Sep 01 09:31		18.98897 AU
retrograde	2920 May 22 01:59	17°≈59'31		opposition	2926 Sep 02 07:38	10°) 19'06	
opposition	2920 Aug 07 12:14	16°≈00'45	-0°41'39	direct	2926 Nov 17 14:47	8°) €22'14	* ** *-
min. Earth dist.	2920 Aug 06 16:34	16° ≈ 02'43	18.72333 AU	evening set	2927 Feb 15 16:28	11°) 22′32	
	2920 Sep 03 00:18	15°R≈					
direct	2920 Oct 23 05:30	14° ≈ 02'37		conjunction	2927 Mar 03 08:52	12°) 16′26	-0°44'34
	2920 Dec 10 07:58	15° ≈		minimum elong	2927 Mar 03 08:52	12°) 16′26	0°44'34
evening set	2921 Jan 22 09:08	17° ≈ 07'47		max. Earth dist.	2927 Mar 04 07:20	12° ₩ 19'41	21.00370 AU
				morning rise	2927 Mar 19 03:53	13°) 1 0′41	
conjunction	2921 Feb 06 23:55	18° ≈ 02′26	-0°38'29	retrograde	2927 Jun 20 17:13	16° ∺ 17'03	
minimum elong	2921 Feb 06 23:55	18° ≈ 02'26	0°38'30	opposition	2927 Sep 06 16:55	14° ∺ 18'16	
max. Earth dist.	2921 Feb 07 19:49		20.75137 AU	min. Earth dist.	2927 Sep 05 19:05		19.01837 AU
morning rise	2921 Feb 22 16:02	18° ≈ 57'15		direct	2927 Nov 21 20:41	12° ∺ 21'31	
retrograde	2921 May 26 12:31	22°≈05'30	10.55000 111	evening set	2928 Feb 19 20:25	15° ∺ 21'14	
min. Earth dist.	2921 Aug 11 04:57		18.77883 AU		2020.14	1.601/1.510.5	004440
opposition	2921 Aug 12 01:02	20°≈06'50	-0°43'28	conjunction	2928 Mar 06 13:28	16° ¥ 15'05	
direct	2921 Oct 27 15:57	18°≈09'00		minimum elong max. Earth dist.	2928 Mar 06 13:28	16° ¥ 15′05	21.03128 AU
evening set	2922 Jan 26 15:23	21°≈13'15		max. Earth dist.	2928 Mar 07 13:17 2928 Mar 22 08:58	17° X 18'30	21.03128 AU
conjunction	2922 Feb 11 06:27	22° ≈ 07'44	-0°40'02	retrograde	2928 Jun 24 00:49	20° H 15'29	
minimum elong	2922 Feb 11 06:27 2922 Feb 11 06:27	22°≈07'44		min. Earth dist.	2928 Sep 09 02:52		19.04416 AU
max. Earth dist.	2922 Feb 12 03:57		20.80474 AU	opposition	2928 Sep 10 01:39	18°) 16'40	
morning rise	2922 Feb 26 22:44	23°≈02'24	20.00 .7	direct	2928 Nov 25 04:40	16° ¥ 20′03	0 .55.
retrograde	2922 May 30 22:45	26°≈10'17		evening set	2929 Feb 23 00:17	19°) 19'14	
opposition	2922 Aug 16 13:00	24° ≈ 11'40	-0°45'03	S			
min. Earth dist.	2922 Aug 15 16:12	24°≈13'45	18.83002 AU	conjunction	2929 Mar 10 17:43	20°) 13′03	-0°44'52
direct	2922 Nov 01 02:51	22° ≈ 14'07		minimum elong	2929 Mar 10 17:43	20°) 13′03	0°44'51
evening set	2923 Jan 30 21:22	25° ≈ 17'30		max. Earth dist.	2929 Mar 11 16:49	20° ∺ 16′22	21.05531 AU
				morning rise	2929 Mar 26 14:07	21°) €07'16	
conjunction	2923 Feb 15 12:26	26° ≈ 11'49	-0°41'22	retrograde	2929 Jun 28 08:50	24°) 1 3′20	
minimum elong	2923 Feb 15 12:26	26° ≈ 11'49	0°41'22	min. Earth dist.	2929 Sep 13 11:48		19.06648 AU
max. Earth dist.	2923 Feb 16 09:19		20.85365 AU	opposition	2929 Sep 14 10:05	22° ∺ 14'29	-0°49'29
morning rise	2923 Mar 03 05:17	27°≈06′23		direct	2929 Nov 29 09:32	20° ★ 18'00	
	2923 May 11 13:54	0° ∀		evening set	2930 Feb 27 04:00	23°) 16′45	
retrograde	2923 Jun 04 07:51	0°) 13'54		. ,.	2020 14 22 12	2401/10122	0044141
i. Dardh diad	2923 Jun 28 10:33	30°R≈	10.07((O.AII	conjunction	2930 Mar 14 22:12	24°) 10'33	
min. Earth dist.	2923 Aug 20 03:51	28°≈17'23 28°≈15'18	18.87669 AU	minimum elong max. Earth dist.	2930 Mar 14 22:12 2930 Mar 15 22:23	24° ¥ 10'33	0°44'41 21.07576 AU
opposition direct	2923 Aug 21 00:38 2923 Nov 05 11:53	28°≈15′18 26°≈17′59	-0 +0 24	max. Earth dist.	2930 Mar 15 22:23 2930 Mar 30 19:10	24° X 14'01 25° X 04'46	21.0/3/0 AU
evening set	2924 Feb 04 02:36	20 ≈1739 29°≈20'30		retrograde	2930 Jul 02 16:10	28° H 10'46	
J. Ching Sot	2924 Feb 15 13:02	29 ≈ 20 30		opposition	2930 Sep 18 17:52	26° X 10'40	-0°49'10
	2,2.100 10 10.02	~ /\		min. Earth dist.	2930 Sep 17 18:53		19.08499 AU
conjunction	2924 Feb 19 18:04	0°) 14'42	-0°42'30	direct	2930 Dec 03 16:12	24° X 15'33	
minimum elong	2924 Feb 19 18:04	0°) 14'42		evening set	2931 Mar 03 07:50	27°) 13'58	
max. Earth dist.	2924 Feb 20 16:24		20.89788 AU	Č			
morning rise	2924 Mar 06 11:13	1°) 09′09		conjunction	2931 Mar 19 02:29	28°) €07'46	-0°44'18
retrograde	2924 Jun 07 17:17	4°) 16′20		minimum elong	2931 Mar 19 02:29	28°) €07'46	0°44'18

max. Earth dist.	2931 Mar 20 01:43	28°) 11′06	21.09238 AU	min. Earth dist.	2937 Oct 16 03:01	23° Y 57'01	19.08304 AU
morning rise	2931 Apr 04 00:24	29°) €02'01		direct	2937 Dec 31 02:32	21° Y 59'05	
	2931 Apr 22 01:38	0 ° $\mathbf{\Upsilon}$		evening set	2938 Mar 30 15:14	24° Y 57'02	
retrograde	2931 Jul 06 23:58	2° Y 08'00					
min. Earth dist.	2931 Sep 22 03:33		19.09966 AU	conjunction	2938 Apr 15 15:45	25° Y 51′25	
opposition	2931 Sep 23 01:41	0° Y 09'09	-0°48'37	minimum elong	2938 Apr 15 15:45	25° Y 51′25	0°35'56
	2931 Sep 26 21:22	30° ₹		max. Earth dist.	2938 Apr 16 10:55	25° Ƴ 54'08	21.07217 AU
direct	2931 Dec 07 20:37	28° 升 12'55		morning rise	2938 May 01 19:47	26° Ƴ 46'18	
	2932 Feb 12 23:19	0 ° $\mathbf{\gamma}$		retrograde	2938 Aug 04 07:31	29° Ƴ 53'12	
evening set	2932 Mar 06 11:26	1° Ƴ 11'03		min. Earth dist.	2938 Oct 20 09:46		19.06049 AU
				opposition	2938 Oct 21 02:58	27° Y 53'54	-0°38'37
conjunction	2932 Mar 22 06:58	2° Y ′04'53		direct	2939 Jan 04 08:29	25° Y 57'34	
minimum elong	2932 Mar 22 06:58	2° Y ′04'53	0°43'42	evening set	2939 Apr 03 20:57	28° Y 55'41	
max. Earth dist.	2932 Mar 23 07:06		21.10499 AU			••	
morning rise	2932 Apr 07 05:32	2° Y 59'10		conjunction	2939 Apr 19 22:14	29° Y 50′13	
retrograde	2932 Jul 10 07:58	6°Υ05'11		minimum elong	2939 Apr 19 22:14	29° Y 50′13	
min. Earth dist.	2932 Sep 25 10:32		19.11001 AU	max. Earth dist.	2939 Apr 20 15:24		21.04717 AU
opposition	2932 Sep 26 09:09	4°Υ06'20	-0°47'51		2939 Apr 22 18:55	0° 8	
direct	2932 Dec 11 02:34	2°Υ10'13		morning rise	2939 May 06 03:23	0° 8 45'16	
evening set	2933 Mar 10 15:31	5° Y 08′09		retrograde	2939 Aug 08 14:56	3° 8 52'24	000 (100
		ca000 a a sa		opposition	2939 Oct 25 09:47	1° 8 52'54	
conjunction	2933 Mar 26 11:37	6°Υ02'02		min. Earth dist.	2939 Oct 24 18:31	_	19.03315 AU
minimum elong	2933 Mar 26 11:37	6° Y 02'02			2939 Dec 27 15:14	30°RΥ	
max. Earth dist.	2933 Mar 27 10:28		21.11308 AU	direct	2940 Jan 08 12:39	29° Y 56′23	
morning rise	2933 Apr 11 11:13	6°Υ56'23			2940 Jan 20 07:30	0°8	
retrograde	2933 Jul 14 15:13	10° Y 02'29	0046151	evening set	2940 Apr 07 02:47	2° 8 54'44	
opposition	2933 Sep 30 16:22	8° Υ 03'37		. ,.	2040 4 22 05 12	20 40126	0021152
min. Earth dist.	2933 Sep 29 19:11	6° Υ 07'35	19.11576 AU	conjunction	2940 Apr 23 05:13	3° 8 49'26	
direct	2933 Dec 15 06:39	9° Υ 05'25		minimum elong	2940 Apr 23 05:13	3° 8 49'26	21.01768 AU
evening set	2934 Mar 14 19:39	9 1 05 25		max. Earth dist.	2940 Apr 23 22:19	4° 8 44'39	21.01/08 AU
aaniunatian	2934 Mar 30 16:41	9° Υ 59'21	0041155	morning rise	2940 May 09 11:12	7° 8 52'03	
conjunction minimum elong	2934 Mar 30 16:41	9 γ 3921 9° γ 59'21	0°41'54	retrograde opposition	2940 Aug 12 00:19 2940 Oct 28 16:24	5° 8 52'23	0022156
max. Earth dist.	2934 Mar 31 15:56		21.11629 AU	min. Earth dist.	2940 Oct 28 10:24 2940 Oct 28 01:13		19.00147 AU
morning rise	2934 Apr 15 16:59	10° Υ 53'47	21.11029 AO	direct	2941 Jan 11 18:47	3° 8 55'39	19.00147 AU
retrograde	2934 Jul 18 23:54	13° Υ 59'59		evening set	2941 Apr 11 09:23	6° 8 54'21	
opposition	2934 Oct 04 23:25	12° Υ 01'07	-0°45'38	evening set	2)41 Apr 11 07.23	0 03421	
min. Earth dist.	2934 Oct 04 02:10		19.11624 AU	conjunction	2941 Apr 27 12:38	7° 8 49'13	-0°29'35
direct	2934 Dec 19 12:30	10° Υ 05'08	19.11021710	minimum elong	2941 Apr 27 12:38	7° 8 49'13	
evening set	2935 Mar 19 00:09	13° Y 02'54		max. Earth dist.	2941 Apr 28 03:42	. —	20.98403 AU
				morning rise	2941 May 13 19:44	8° 8 44'38	
conjunction	2935 Apr 03 21:48	13° Y 56'55	-0°40'43	retrograde	2941 Aug 16 08:26	11° 8 52'20	
minimum elong	2935 Apr 03 21:48	13° Y 56'55		opposition	2941 Nov 01 23:07	9° 8 52'29	-0°31'20
max. Earth dist.	2935 Apr 04 19:18	13° Y 59'59	21.11400 AU	min. Earth dist.	2941 Nov 01 09:56		18.96599 AU
morning rise	2935 Apr 19 23:08	14° Y 51'27		direct	2942 Jan 15 22:41	7° 8 55'32	
retrograde	2935 Jul 23 06:48	17° Y 57'49		evening set	2942 Apr 15 16:18	10° 8 54'38	
min. Earth dist.	2935 Oct 08 11:04	16° Ƴ 00'50	19.11112 AU				
opposition	2935 Oct 09 06:35	15° Ƴ 58'53	-0°44'12	conjunction	2942 May 01 20:42	11° 8 49'43	-0°27'09
direct	2935 Dec 23 16:26	14° Y 02'53		minimum elong	2942 May 01 20:42	11° 8 49'43	0°27'09
evening set	2936 Mar 22 04:51	17° Ƴ 00'40		max. Earth dist.	2942 May 02 11:34	11° 8 51'50	20.94684 AU
				morning rise	2942 May 18 04:36	12° 8 45'19	
conjunction	2936 Apr 07 03:31	17° Ƴ 54'47	-0°39'19		2942 Jul 04 07:32	15° 8	
minimum elong	2936 Apr 07 03:32	17° Ƴ 54'47	0°39'18	retrograde	2942 Aug 20 18:51	15° 8 53'23	
max. Earth dist.	2936 Apr 08 01:00		21.10597 AU		2942 Oct 08 08:40	15° ₹ 8	
morning rise	2936 Apr 23 05:38	18° Ƴ 49'25		opposition	2942 Nov 06 05:55	13° 8 53'22	-0°28'34
retrograde	2936 Jul 26 15:43	21° Y 55'57		min. Earth dist.	2942 Nov 05 16:47		18.92703 AU
opposition	2936 Oct 12 13:26	19° Y 56′56		direct	2943 Jan 20 05:20	11° 8 56'13	
min. Earth dist.	2936 Oct 11 18:04		19.10002 AU	evening set	2943 Apr 19 23:48	14° 8 55'48	
direct	2936 Dec 26 22:27	18° Y 00′53			2943 Apr 21 05:49	15° 8	
evening set	2937 Mar 26 09:58	20° Y 58'42		_			
				conjunction	2943 May 06 05:01	15° 8 51'05	
conjunction	2937 Apr 11 09:25	21°Υ52'57		minimum elong	2943 May 06 05:01	15° 8 51'05	
minimum elong	2937 Apr 11 09:25	21°Υ52'57		max. Earth dist.	2943 May 06 17:56		20.90629 AU
max. Earth dist.	2937 Apr 12 04:47		21.09193 AU	morning rise	2943 May 22 14:00	16° 8 46'55	
morning rise	2937 Apr 27 12:39	22°\dagger47'43		retrograde	2943 Aug 25 03:47	19° 8 55'24	000 5:20
retrograde	2937 Jul 30 22:42	25° Y 54'25	0040141	opposition	2943 Nov 10 13:08	17° 8 55'13	
opposition	2937 Oct 16 20:23	23° Y 55′16	-U-4U41	min. Earth dist.	2943 Nov 10 02:03	1/2036/21	18.88494 AU

direct	2944 Jan 24 09:25	15° 8 57'51	opposition	2949 Dec 04 14:41	12° Д 35'16 -0°05'38	
evening set	2944 Apr 23 07:56	18° 8 58'00	min. Earth dist.	2949 Dec 04 12:38	12° I 35'29 18.56669 A	ΑU
agnismation	2044 May 00, 14-20	19° 8 53'32 -0°21'53	direct	2950 Feb 17 04:39	10° Ⅲ 36'21 13° Ⅲ 41'31	
conjunction minimum elong	2944 May 09 14:20 2944 May 09 14:20	19°853'32 -0°21'53	evening set	2950 May 19 02:37	13 Д4131	
max. Earth dist.	2944 May 10 02:55	19° 8 55'20 20.86278 A	AU conjunction	2950 Jun 04 14:42	14° Д 38'42 -0°03'33	
morning rise	2944 May 26 00:08	20° 8 49'34	minimum elong	2950 Jun 04 14:42	14° II 38'42 0° 03'32	
retrograde	2944 Aug 28 15:31	23° 8 58'30	behind sun begin	2950 Jun 04 08:02	14° Д 30°42 — 0°03°32 14° Д 37'45	
opposition	2944 Nov 13 20:19	21° 8 58'12 -0°22'36	behind sun end	2950 Jun 04 21:22	14° Ⅱ 39'39	
min. Earth dist.	2944 Nov 13 09:26	21° 8 59'19 18.83986 A		2950 Jun 04 16:34	14°II38'55 20.53480 A	ΔIJ
direct	2945 Jan 27 16:41	20° 8 00'37	morning rise	2950 Jun 21 05:26	15° ∏ 36'18	
evening set	2945 Apr 27 17:00	23° 8 01'26	retrograde	2950 Sep 23 19:17	18° Ⅱ 48'36	
8	r		opposition	2950 Dec 09 00:28	16° I I47'33 -0°02'00	
conjunction	2945 May 14 00:15	23° 8 57'12 -0°19'03	min. Earth dist.	2950 Dec 08 23:07	16° Ⅱ 47'41 18.50169 A	ΑU
minimum elong	2945 May 14 00:15	23° 8 57'12 0°19'04	direct	2951 Feb 21 14:46	14° Ⅱ 48'16	
max. Earth dist.	2945 May 14 10:38	23° 8 58'41 20.81624 A	AU evening set	2951 May 23 16:42	17° Ⅱ 54′26	
morning rise	2945 May 30 11:05	24° 8 53'29	C	,		
retrograde	2945 Sep 02 01:32	28° 8 02'55	conjunction	2951 Jun 09 05:35	18° 耳 51′55 -0°00′11	
opposition	2945 Nov 18 04:04	26° 8 02'30 -0°19'25	minimum elong	2951 Jun 09 05:34	18° I 51'55 0°00'11	
min. Earth dist.	2945 Nov 17 19:29	26° 8 03'23 18.79183 A	AU behind sun begin	2951 Jun 08 22:54	18° Ⅲ 50'59	
direct	2946 Jan 31 21:41	24° 8 04'41	behind sun end	2951 Jun 09 12:14	18° Ⅲ 52'52	
evening set	2946 May 02 02:38	27° 8 06'15	max. Earth dist.	2951 Jun 09 05:00	18° Ⅲ 51'53 20.46831 A	A U
C	•		morning rise	2951 Jun 25 21:02	19° Ⅱ 49'49	
conjunction	2946 May 18 10:59	28° 8 02'17 -0°16'07	asc. node	2951 Jun 28 22:28	20° Ⅲ 00′13	
minimum elong	2946 May 18 10:59	28° 8 02'17 0°16'08	retrograde	2951 Sep 28 08:54	23° II 02'43	
max. Earth dist.	2946 May 18 20:42	28° 8 03'40 20.76675 A	AU opposition	2951 Dec 13 10:53	21° II 01'28 0°01'40	
morning rise	2946 Jun 03 22:34	28° 8 58'49	min. Earth dist.	2951 Dec 13 12:12	21° I [01'19 18.43391 A	ΑU
-	2946 Jun 22 21:32	Π°	direct	2952 Feb 26 00:11	19° Ⅲ 01'46	
retrograde	2946 Sep 06 14:17	2° I 108'46	evening set	2952 May 27 07:45	22° II 09'00	
opposition	2946 Nov 22 11:58	0° I 08'15 -0°16'07				
min. Earth dist.	2946 Nov 22 03:49	0° 耳 09'06 18.74069 A	AU conjunction	2952 Jun 12 21:32	23° II 06'48 0°03'13	
	2946 Nov 25 19:55	30° ₹ 8	minimum elong	2952 Jun 12 21:33	23° II 06'48 0°03'13	
direct	2947 Feb 05 05:35	28° 8 10'14	behind sun begin	2952 Jun 12 14:50	23° Ⅲ 05'51	
	2947 Apr 13 18:44	Π \circ 0	behind sun end	2952 Jun 13 04:15	23° Ⅲ 07'45	
evening set	2947 May 06 13:20	1° Ⅱ 12'36	max. Earth dist.	2952 Jun 12 19:25	23° II 06'32 20.39952 A	A U
			morning rise	2952 Jun 29 13:36	24° Ⅲ 04'58	
conjunction	2947 May 22 22:30	2° Ⅱ 08'54 -0°13'06	retrograde	2952 Oct 02 00:37	27° Ⅱ 18′28	
minimum elong	2947 May 22 22:30	2° II 08'54 0°13'06	opposition	2952 Dec 16 21:29	25° I I17'00 0°05'21	
behind sun begin	2947 May 22 18:36	2° Ⅱ 08′21	min. Earth dist.	2952 Dec 16 23:30	25° Ⅱ 16'48 18.36416 A	ΑU
behind sun end	2947 May 23 02:25	2° Ⅱ 09'27	direct	2953 Mar 01 11:53	23° Ⅱ 16′52	
max. Earth dist.	2947 May 23 05:50	2° Ⅱ 09'57 20.71403 A	AU evening set	2953 May 31 23:47	26° Ⅲ 25′13	
morning rise	2947 Jun 08 11:01	3° Ⅲ 05'42				
retrograde	2947 Sep 11 01:49	6° Ⅱ 16'14	conjunction	2953 Jun 17 14:18	27° II 23'20 0°06'31	
opposition	2947 Nov 26 20:29	4° Ⅱ 15'37 -0°12'43	minimum elong	2953 Jun 17 14:18	27° I I23'20 0°06'32	
min. Earth dist.	2947 Nov 26 14:56	4° П 16'11 18.68633 А	C	2953 Jun 17 07:58	27° Ⅲ 22′26	
direct	2948 Feb 09 11:57	2° Ⅲ 17′19	behind sun end	2953 Jun 17 20:37	27° Ⅱ 24'14	
evening set	2948 May 10 00:45	5° Ⅱ 20′35	max. Earth dist.	2953 Jun 17 10:04	27° Ⅲ 22'44 20.32898 A	ΑU
	2040.14 26 11 02	60 T 15110 0000150	morning rise	2953 Jul 04 06:53	28° Ⅲ 21'47	
conjunction	2948 May 26 11:02	6°II17'10 -0°09'59		2953 Aug 04 07:16	0°©	
minimum elong	2948 May 26 11:02	6° Ⅱ 17'10 0°09'58	retrograde	2953 Oct 06 14:57	1°935'53	
behind sun begin	2948 May 26 05:38	6° Ⅱ 16'25		2953 Dec 11 03:32	30°RII	
behind sun end max. Earth dist.	2948 May 26 16:26	6° І 17'56 6° І 18'02 20.65797 А	opposition AU min. Earth dist.	2953 Dec 21 08:53	29° П 34'14 0°09'02 29° П 33'45 18.29314 A	ATT
	2948 May 26 17:10 2948 Jun 12 00:18	6 П 1802 20.63797 <i>F</i> 7° П 14'14		2953 Dec 21 13:20 2954 Mar 05 22:37	27°II33'40	40
morning rise		10° I I25'20	direct		2/°⊞3340 0°©	
retrograde opposition	2948 Sep 14 15:40 2948 Nov 30 05:18	8° П 24'37 -0°09'13	ovening set	2954 May 23 20:05 2954 Jun 05 16:29	0°\$43'09	
min. Earth dist.	2948 Nov 30 03:18 2948 Nov 30 00:28	8° Д 24'37' -0 09'13' 8° Д 25'07' 18.62836 А	evening set	2757 Jun 05 10.29	U 🔾 7 J U 9	
direct	2949 Feb 12 20:45	6° П 26'02	conjunction	2954 Jun 22 07:44	1° © 41'35 0°09'49	
evening set	2949 May 14 13:21	9° Д 30'14	minimum elong	2954 Jun 22 07:43	1°5641'35 0°09'48	
Svennig set	2)7) way 17 13.21) <u>H</u> JU 17	behind sun begin	2954 Jun 22 07:45 2954 Jun 22 02:15	1°5640'47	
conjunction	2949 May 31 00:26	10° Ⅲ 27′06 -0°06′48	behind sun begin	2954 Jun 22 13:12	1°54047 1°542'22	
minimum elong	2949 May 31 00:26	10° I I27'06 0°06'48	max. Earth dist.	2954 Jun 22 01:56	1°542'22 1°540'44 20.25769 A	ΔU
behind sun begin	2949 May 30 18:10	10° I I26'13	morning rise	2954 Jul 09 00:48	2°\$40'17	
behind sun end	2949 May 31 06:41	10° Ⅲ 2013 10° Ⅲ 27'59	retrograde	2954 Oct 11 07:34	5°\$55'03	
max. Earth dist.	2949 May 31 03:49	10° Д 27'34 20.59811 А	•	2954 Dec 25 20:42	3°553'10 0°12'41	
morning rise	2949 Jun 16 14:30	10 H 2734 20.33811 F	min. Earth dist.	2954 Dec 26 01:38	3°552'39 18.22170 A	411
retrograde	2949 Sep 19 04:32	14° I I36'08	direct	2955 Mar 10 12:09	1°\$52'10	10
1011051440	27.750p 17 07.32	11 <u>14</u> 30 00	anout	2755 Hui 10 12.07	1 -5210	

evening set	2955 Jun 10 10:15	5° © 02'50	conjunction	2961 Jul 24 11:35	2° Ω 42'42 0°30'49
<i>Ş</i>			minimum elo		2° Ω 42'42 0°30'48
conjunction	2955 Jun 27 02:08	6°901'35 0°	max. Earth dis	-	2° Ω 40'16 19.78288 AU
minimum elong	2955 Jun 27 02:08	6°€01'35 0°	13'05 morning rise	2961 Aug 10 05:38	3° Ω 43'12
behind sun begin	2955 Jun 26 22:13	6°€01'01	retrograde	2961 Nov 11 17:31	7° Ω 02'26
behind sun end	2955 Jun 27 06:03	6° © 02'09	opposition	2962 Jan 25 03:15	4° Ω 59'52 0°35'40
max. Earth dist.	2955 Jun 26 18:44	6°900'30 20.	**	t. 2962 Jan 25 17:51	4° Ω 58'17 17.75191 AU
morning rise	2955 Jul 13 19:33	7° © 00'35	direct	2962 Apr 10 00:58	2° Ω 56'14
retrograde	2955 Oct 15 22:50	10° © 15'57	evening set	2962 Jul 12 17:42	6° Ω 15'59
opposition	2955 Dec 30 09:12	8°\$13'54 0°	16'17		
min. Earth dist.	2955 Dec 30 16:20	8° 5 13'09 18.	.15046 AU conjunction	2962 Jul 29 12:03	7° Ω 16'44 0°33'17
direct	2956 Mar 13 24:00	6° © 12'28	minimum elo	ong 2962 Jul 29 12:03	7° Ω 16'44 0°33'17
evening set	2956 Jun 14 04:56	9° 5 24'22	max. Earth dis	t. 2962 Jul 28 17:20	7° Ω 13'53 19.72129 AU
			morning rise	2962 Aug 15 06:05	8° Ω 17'27
conjunction	2956 Jun 30 21:25	10°523'25 0°	retrograde	2962 Nov 16 15:22	11° Ω 37'16
minimum elong	2956 Jun 30 21:25	10° © 23'25 0°	16'16 opposition	2963 Jan 29 21:04	9° Ω 34'38 0°38'19
max. Earth dist.	2956 Jun 30 12:15	10°\$22'04 20.	.11535 AU min. Earth dist	t. 2963 Jan 30 12:46	9° Ω 32'56 17.69121 AU
morning rise	2956 Jul 17 15:16	11° © 22'41	direct	2963 Apr 14 20:35	7° Ω 30′38
retrograde	2956 Oct 19 16:56	14° 5 38'42	evening set	2963 Jul 17 19:04	10° Ω 51'39
opposition	2957 Jan 02 22:17		19'48		
min. Earth dist.	2957 Jan 03 05:55	12° © 35'41 18.	.08010 AU conjunction	2963 Aug 03 13:38	11° Ω 52'39 0°35'34
direct	2957 Mar 18 15:35	10° © 34'38	minimum elo	ong 2963 Aug 03 13:38	11° Ω 52'39 0°35'34
evening set	2957 Jun 19 00:36	13° © 47'49	max. Earth dis	2	11° Ω 49'43 19.66132 AU
			morning rise	2963 Aug 20 07:12	12° Ω 53'33
conjunction	2957 Jul 05 17:38	14°547'10 0°	19'24	2963 Sep 29 03:10	15° Ω
minimum elong	2957 Jul 05 17:38		retrograde retrograde	2963 Nov 21 13:43	16° Ω 13'54
max. Earth dist.	2957 Jul 05 07:15	14°545'38 20.	.04545 AU	2964 Jan 15 10:25	15°R Ω
morning rise	2957 Jul 22 11:35	15° © 46'41	opposition	2964 Feb 03 15:33	14° Ω 11'12 0°40'46
retrograde	2957 Oct 24 09:20	19° © 03'22	min. Earth dist		14° Ω 09'21 17.63219 AU
opposition	2958 Jan 07 12:09		23'15 direct	2964 Apr 18 16:21	12° Ω 06'51
min. Earth dist.	2958 Jan 07 21:44	17° © 00'00 18.		2964 Jul 13 15:38	15° Ω
direct	2958 Mar 23 04:58	14° © 58'47	evening set	2964 Jul 21 21:24	15° Ω 29'05
evening set	2958 Jun 23 21:13	18° © 13'16			
			conjunction	2964 Aug 07 15:44	16° Ω 30'17 0°37'38
conjunction	2958 Jul 10 14:39		minimum elo	c c	16° Ω 30'17 0°37'37
minimum elong	2958 Jul 10 14:39		max. Earth dis	2	16° Ω 26'57 19.60339 AU
max. Earth dist.	2958 Jul 10 02:21	19°5511'04 19.	0	2964 Aug 24 09:07	17° Ω 31'22
morning rise	2958 Jul 27 08:53	20°5512'42	retrograde	2964 Nov 25 11:59	20°Ω52'13
retrograde	2958 Oct 29 05:00	23°530'01	opposition	2965 Feb 07 10:52	18° Ω 49'25 0°42'56
opposition	2959 Jan 12 02:41	21°527'36 0°			18° Ω 47'26 17.57557 AU
min. Earth dist.	2959 Jan 12 12:50	21°526'31 17.		2965 Apr 23 13:36	16° Ω 44'42
direct	2959 Mar 27 21:51	19° © 24'59 22° © 40'47	evening set	2965 Jul 27 00:06	20° Ω 08'06
evening set	2959 Jun 28 18:43	22 304047	conjunction	2965 Aug 12 18:26	21° Ω 09'31 0°39'27
conjunction	2959 Jul 15 12:38	23°5540'44 0°	25'22 minimum elo	•	$21^{\circ}\Omega09'31 0''39'28$
minimum elong	2959 Jul 15 12:38		25'22 max. Earth dis		21° Ω 06'10 19.54803 AU
max. Earth dist.	2959 Jul 14 23:33	23° © 38'46 19.		2965 Aug 29 11:10	22° Ω 10'45
morning rise	2959 Aug 01 06:51	24°5540'46	retrograde	2965 Nov 30 11:16	25°Ω32'02
retrograde	2959 Nov 02 23:39	27° 9 58'44	opposition	2966 Feb 12 06:49	23° Ω 29'10 0°44'51
opposition	2960 Jan 16 18:08		29'46 min. Earth dist		23°Ω27'06 17.52176 AU
min. Earth dist.	2960 Jan 17 06:07	25° © 54'58 17.		2966 Apr 28 11:20	21° Ω 24'07
direct	2960 Mar 31 13:19	23° © 53'19	evening set	2966 Aug 01 03:34	24° Ω 48'36
evening set	2960 Jul 02 17:30	27°©10'27	Č	S	
C			conjunction	2966 Aug 17 21:30	25° Ω 50'12 0°41'02
conjunction	2960 Jul 19 11:36	28°910'40 0°	28'10 minimum elo	•	25° Ω 50'12 0°41'01
minimum elong	2960 Jul 19 11:35	28°9510'40 0°	28'10 max. Earth dis	t. 2966 Aug 16 21:38	25° Ω 46'31 19.49598 AU
max. Earth dist.	2960 Jul 18 20:09	28°508'20 19.		2966 Sep 03 13:50	26° € 51'34
morning rise	2960 Aug 05 05:56	29° © 10'56	· ·	2966 Nov 13 11:55	0° mp
-	2960 Aug 19 13:00	$0^{\circ}\Omega$	retrograde	2966 Dec 05 09:51	0° m 13'16
retrograde	2960 Nov 06 20:35	2° Ω 29'34	Č	2966 Dec 27 10:51	30°R Ω
opposition	2961 Jan 20 10:10	0° Ω 27′02 0°	32'48 opposition	2967 Feb 17 03:25	28° Q 10'18 0°46'28
min. Earth dist.		00.005120 17	.81428 AU min. Earth dist	t. 2967 Feb 17 23:28	28° Ω 08'06 17.47176 AU
	2961 Jan 20 23:06	0° Ω 25'38 17.	.01 120 110 IIIII. Eartii disi		
	2961 Jan 20 23:06 2961 Jan 30 21:59	0°8 (25'38 17. 30° ୧ ତ	direct	2967 May 03 10:02	26° Ω 04'54
direct					
direct	2961 Jan 30 21:59	30° ₹ 5	direct	2967 May 03 10:02	26° Ω 04'54
direct evening set	2961 Jan 30 21:59 2961 Apr 05 07:22	30°Rூ 28°♀23'44	direct	2967 May 03 10:02 2967 Aug 06 07:21 2967 Aug 14 09:00	26° Ω 04'54 29° Ω 30'27

max. Earth dist.	2980 Oct 24 10:29	2° M 39'37	19.33556 AU	conjunction	2986 Nov 22 22:56	0° ₹ 54'03	0°14'10
	2000 0 4 25 04 10	2° M .42'24	0022120	minimum elong	2986 Nov 22 22:56	0° ₹ 54'03	0°14'10
conjunction	2980 Oct 25 04:10			behind sun begin	2986 Nov 22 19:40	0° 🗷 53'33	
minimum elong	2980 Oct 25 04:10	2°M42'24	0°32'30	behind sun end	2986 Nov 23 02:13	0° ₹ 54'33	19.58487 AU
morning rise	2980 Nov 10 07:12	3°M43'06		max. Earth dist. morning rise	2986 Nov 22 15:39		19.5848 / AU
retrograde	2981 Feb 09 14:07	7°M04'57	0024140	C	2986 Dec 08 20:14	1°×753'16	
opposition	2981 Apr 24 09:16	5°M02'58	0°34'48	retrograde	2987 Mar 10 00:47	5°×712'02	0012152
min. Earth dist.	2981 Apr 25 00:47		17.34919 AU	opposition	2987 May 23 16:27	3° ₹ 10'58	0°13'52
direct	2981 Jul 10 02:23	2°M57'03		min. Earth dist.	2987 May 23 21:42		17.61330 AU
evening set	2981 Oct 13 23:32	6°M26'48		direct	2987 Aug 08 19:47	1° 🗷 06'38 4° 🗷 31'35	
agnismation	2981 Oct 30 05:14	7° M 27'48	0°29'50	evening set	2987 Nov 11 19:43	4 X.3133	
conjunction	2981 Oct 30 05:14 2981 Oct 30 05:14	7°M27'48	0°29'50	conjunction	2987 Nov 27 19:05	5° ∡ ³30'57	0°10'44
minimum elong max. Earth dist.			19.36382 AU	minimum elong		5° x 30'57	0°10'44
morning rise	2981 Oct 29 12:04 2981 Nov 15 07:22	8°M28'17	19.30362 AU	behind sun begin	2987 Nov 27 19:06 2987 Nov 27 13:59	5° x '30'37	0 1044
retrograde	2981 Nov 13 07.22 2982 Feb 14 12:44	11°M49'43		behind sun end	2987 Nov 28 00:12	5° x 30 10 5° x 31'44	
opposition	2982 Feb 14 12:44 2982 Apr 29 11:10	9° M 47'47	0°31'43	max. Earth dist.	2987 Nov 27 13:44		19.64290 AU
min. Earth dist.	2982 Apr 30 01:23		17.38010 AU	morning rise	2987 Dec 13 15:30	6° ₹ 29'53	19.04290 AU
direct	2982 Apr 30 01:23 2982 Jul 15 06:47	7°ML42'00	17.38010 AU	retrograde	2988 Mar 13 20:38	9° х 48'05	
evening set	2982 Jul 13 00:47 2982 Oct 19 01:00	11°ML11'08		opposition	2988 May 27 16:33	7° × ⁷ 47'15	0°09'59
evening set	2982 Oct 19 01.00	11 1161100		min. Earth dist.	2988 May 27 10.33 2988 May 27 21:03		17.67301 AU
conjunction	2982 Nov 04 05:44	12°M11'54	0°26'59	direct	2988 Aug 12 19:19	5° × ⁷ 43'19	17.07301 AC
minimum elong	2982 Nov 04 05:44 2982 Nov 04 05:44	12°M11'54	0°26'59	evening set	2988 Nov 15 16:01	9° × ⁷ 07'15	
max. Earth dist.	2982 Nov 04 03.44 2982 Nov 03 15:08		19.39741 AU	evening set	2988 NOV 13 10.01	9 8.0/13	
morning rise	2982 Nov 03 13:08 2982 Nov 20 06:45	13°M12'09	19.39/41 AU	conjunction	2988 Dec 01 14:24	10° √ 06'18	0°07'15
morning risc	2982 Nov 20 00:43 2982 Dec 22 06:02	15°M		minimum elong	2988 Dec 01 14:24 2988 Dec 01 14:24	10 ≯ 00 18 10° ≯ 06'18	0°07'15
retrograde	2982 Dec 22 00:02 2983 Feb 19 11:03	16°M33'04		behind sun begin	2988 Dec 01 14.24 2988 Dec 01 08:19	10°× 00°18 10°× 05'23	0 07 13
retrograde	2983 Apr 23 06:16	10 11633 04 15°RM		behind sun end	2988 Dec 01 08:19 2988 Dec 01 20:28	10 x 03 23	
opposition	2983 Apr 23 00:10 2983 May 04 12:42	14°MJ31'16	0°28'27	max. Earth dist.	2988 Dec 01 20:28 2988 Dec 01 10:39		19.70413 AU
min. Earth dist.	2983 May 04 12:42 2983 May 05 01:14		17.41624 AU	morning rise	2988 Dec 17 10:04	11°× 03 43	17.70413 AO
direct	2983 Jul 20 11:09	12°M25'40	17.41024 AO	retrograde	2989 Mar 18 17:21	14° × 22'34	
direct	2983 Oct 08 21:15	15°M		opposition	2989 Jun 01 16:07	12° x ⁷ 21'57	0°06'04
evening set	2983 Oct 24 01:49	15°M54'06		min. Earth dist.	2989 Jun 01 17:56		17.73542 AU
evening set	2703 Oct 24 01.47	13 1103 + 00		direct	2989 Aug 17 20:00	10° ₹ 18'26	17.75542710
conjunction	2983 Nov 09 05:19	16°M54'36	0°23'59	evening set	2989 Nov 20 11:16	13°×741'16	
minimum elong	2983 Nov 09 05:19	16°M54'36	0°23'59	evening set	2707 1107 20 11.10	13 🗡 41 10	
max. Earth dist.	2983 Nov 08 15:49	16°M52'29		conjunction	2989 Dec 06 08:47	14° ≯ ′40′01	0°03'44
morning rise	2983 Nov 25 05:23	17°ML54'37	17.13031710	minimum elong	2989 Dec 06 08:47	14° × ⁷ 40'01	0°03'43
retrograde	2984 Feb 24 08:28	21°ML15'01		behind sun begin	2989 Dec 06 02:15	14°×739'02	0 03 13
opposition	2984 May 08 14:13	19°M13'20	0°25'00	behind sun end	2989 Dec 06 15:19	14° ✓ 41'00	
min. Earth dist.	2984 May 09 01:27		17.45799 AU	max. Earth dist.	2989 Dec 06 07:12		19.76759 AU
direct	2984 Jul 24 13:44	17° M .07'58		morning rise	2989 Dec 22 03:40	15° ∡ ³38'24	
evening set	2984 Oct 28 01:32	20°M35'38		retrograde	2990 Mar 23 12:09	18° ₹ 55'23	
3				opposition	2990 Jun 06 15:18	16° ∡ 754'59	0°02'08
conjunction	2984 Nov 13 04:01	21°M35'51	0°20'49	min. Earth dist.	2990 Jun 06 16:34		17.79981 AU
minimum elong	2984 Nov 13 04:01	21°M35'51	0°20'49	direct	2990 Aug 22 18:41	14° √ 51'52	
max. Earth dist.	2984 Nov 12 17:03	21°M34'09	19.48086 AU	evening set	2990 Nov 25 05:46	18° ∡ 13'35	
morning rise	2984 Nov 29 03:03	22°M35'36		C			
retrograde	2985 Feb 28 06:36	25°M55'29		conjunction	2990 Dec 11 02:21	19° ∡ 12′00	0°00'08
opposition	2985 May 13 15:21	23°M53'58	0°21'24	minimum elong	2990 Dec 11 02:20	19° ∡ 12'00	0°00'08
min. Earth dist.	2985 May 14 00:12	23°M53'02	17.50501 AU	behind sun begin	2990 Dec 10 19:53	19° ∡ 11'02	
direct	2985 Jul 29 17:12	21°M48'55		behind sun end	2990 Dec 11 08:46	19° ∡ 12'58	
evening set	2985 Nov 02 00:31	25°M15'44		max. Earth dist.	2990 Dec 11 01:47	19° ∡ 11'57	19.83273 AU
				desc. node	2990 Dec 24 10:07	20° ∡ *01'13	
conjunction	2985 Nov 18 01:54	26°M15'41	0°17'32	morning rise	2990 Dec 26 20:38	20° х 10′05	
minimum elong	2985 Nov 18 01:54	26°M15'41	0°17'33	retrograde	2991 Mar 28 07:20	23° ∡ ¹26′27	
max. Earth dist.	2985 Nov 17 16:33	26°ML14'13	19.53049 AU	opposition	2991 Jun 11 13:39	21° ≯ ¹26′13	-0°01'48
morning rise	2985 Dec 04 00:02	27°ML15'10		min. Earth dist.	2991 Jun 11 12:22	21° ₹ '26'21	17.86546 AU
-	2986 Jan 28 16:07	0° ∡ ¹		direct	2991 Aug 27 18:22	19° ∡ ′23′30	
retrograde	2986 Mar 05 03:04	0° ҂ ³34'30		evening set	2991 Nov 29 23:17	22° ҂ ⁴44'02	
-	2986 Apr 10 16:54	30°RML		-			
opposition	2986 May 18 16:06	28°MJ33'11	0°17'41	conjunction	2991 Dec 15 19:05	23° ҂ ⁴42'08	-0°03'28
min. Earth dist.	2986 May 18 23:54	28°M32'22	17.55709 AU	minimum elong	2991 Dec 15 19:06	23° ∡ ¹42'08	0°03'28
direct	2986 Aug 03 17:53	26° ML $28'28$		behind sun begin	2991 Dec 15 12:34	23° ∡ ′41′09	
evening set	2986 Nov 06 22:32	29°M54'24		behind sun end	2991 Dec 16 01:37	23° ∡ °43′07	
	2986 Nov 08 11:14	0° ⊼ ¹		max. Earth dist.	2991 Dec 15 20:49	23° ∡ ¹42'21	19.89876 AU
	_,						
	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			morning rise	2991 Dec 31 12:40	24° ∡ ³39'56	

retrograde	2992 Apr 01 00:17	27° ₹ 155'39	max. Earth dist.	2998 Jan 10 15:10	20° ට 01'26 20.30093 AU
opposition	2992 Jun 15 11:45	25° ₹ 155'35 -0°05'41	morning rise	2998 Jan 25 18:41	20°පි55'50
min. Earth dist.	2992 Jun 15 11:43 2992 Jun 15 09:57	25° ₹ 55'46 17.93183 AU	retrograde	2998 Apr 27 16:38	24°る07'34
			•		
direct	2992 Aug 31 16:39	23° 🖈 53'15	opposition	2998 Jul 13 07:53	22°る08'03 -0°26'55
evening set	2992 Dec 03 15:45	27° ∡ 12'33	min. Earth dist.	2998 Jul 12 20:06	22°る09'14 18.33477 AU
			direct	2998 Sep 28 11:58	20° ろ 07'40
conjunction	2992 Dec 19 10:42	28° ≯ 10′20 -0°06′55	evening set	2998 Dec 29 21:49	23° る 19'24
minimum elong	2992 Dec 19 10:42	28° ≯ 10'19 0°06'55			
behind sun begin	2992 Dec 19 04:35	28° ₹ 09'25	conjunction	2999 Jan 14 13:29	24° ප 15'23 -0°25'40
behind sun end	2992 Dec 19 16:48	28° ⊀ 11'14	minimum elong	2999 Jan 14 13:29	24°る15'23 0°25'41
max. Earth dist.	2992 Dec 19 13:13	28° ⊀ 10'41 19.96538 AU	max. Earth dist.	2999 Jan 15 01:58	24°る17'15 20.36878 AU
morning rise	2993 Jan 04 03:53	29° ₹ 07'51	morning rise	2999 Jan 30 04:56	25° ප 11'20
	2993 Jan 19 03:33	0°පි	retrograde	2999 May 02 06:23	28° ろ 22'29
retrograde	2993 Apr 05 17:46	2° る 22'54	min. Earth dist.	2999 Jul 17 10:39	26°る24'29 18.40260 AU
•	2993 Apr 03 17:40 2993 Jun 20 09:00	2 ර22 54 0° ට 22'57 -0°09'30		2999 Jul 17 10:39 2999 Jul 18 00:32	26°る23'04 -0°29'56
opposition			opposition		
min. Earth dist.	2993 Jun 20 04:39	0°중23'24 17.99854 AU	direct	2999 Oct 03 03:09	24°중23'04
	2993 Jun 29 16:46	30°R. ✓	evening set	3000 Jan 03 07:40	27° る 33'37
direct	2993 Sep 05 14:55	28° ∡ ¹20'57			
	2993 Nov 08 06:06	0° る	conjunction	3000 Jan 18 23:11	28° ට 29'21 -0°28'19
evening set	2993 Dec 08 07:13	1° る 39'00	minimum elong	3000 Jan 18 23:10	28° る 29'21 0°28'19
			max. Earth dist.	3000 Jan 19 14:21	28°る31'37 20.43633 AU
conjunction	2993 Dec 24 01:36	2° ප 36'28 -0°10'19	morning rise	3000 Feb 03 14:24	29° ප් 25'04
minimum elong	2993 Dec 24 01:36	2° る 36'28 0°10'18	3 3	3000 Feb 13 18:58	0° ≈
behind sun begin	2993 Dec 23 20:21	2°る35'41	retrograde	3000 May 06 18:01	2°≈35'40
behind sun end	2993 Dec 24 06:50	2°る37'15	opposition	3000 Jul 22 16:40	0°≈36'23 -0°32'45
max. Earth dist.	2993 Dec 24 06:31	2°る37'12 20.03210 AU	min. Earth dist.	3000 Jul 22 01:42	0°≈37'54 18.46976 AU
morning rise	2994 Jan 08 18:12	3° る 33'42		3000 Aug 06 21:53	30°₹ ろ
retrograde	2994 Apr 10 08:47	6° る 48'05	direct	3000 Oct 07 17:55	28° る 36'47
opposition	2994 Jun 25 05:28	4°る48'14 -0°13'15		3000 Dec 05 00:54	0° ≈
min. Earth dist.	2994 Jun 25 00:36	4°る48'44 18.06530 AU	evening set	3001 Jan 07 16:50	1° ≈ 46′10
direct	2994 Sep 10 11:35	2° る 46'34			
evening set	2994 Dec 12 21:46	6° る 03'20	conjunction	3001 Jan 23 07:57	2°≈41'40 -0°30'47
-			minimum elong	3001 Jan 23 07:57	2°≈41'39 0°30'47
conjunction	2994 Dec 28 15:23	7° る 00'29 -0°13'37	max. Earth dist.	3001 Jan 23 23:32	2°≈43'59 20.50299 AU
minimum elong	2994 Dec 28 15:23	7°る00'29 0°13'37	morning rise	3001 Feb 07 23:24	3°≈37'11
behind sun begin	2994 Dec 28 11:41	6° る 59'56	retrograde	3001 Nay 11 06:46	6°≈47'16
behind sun end		0 03930 7°る01'02	Č	•	
	2994 Dec 28 19:05	· · ·	opposition	3001 Jul 27 08:03	4°≈48'07 -0°35'24
max. Earth dist.	2994 Dec 28 20:57	7°る01'19 20.09895 AU	min. Earth dist.	3001 Jul 26 15:28	4°≈49'47 18.53580 AU
morning rise	2995 Jan 13 07:45	7° る 57'27	direct	3001 Oct 12 06:50	2°≈48'53
retrograde	2995 Apr 15 00:32	11° ට 11'08	evening set	3002 Jan 12 01:19	5°≈57'11
opposition	2995 Jun 30 01:10	9° ට 11'21 -0°16'53			
min. Earth dist.	2995 Jun 29 17:49	9° る 12'07 18.13220 AU	conjunction	3002 Jan 27 16:26	6°≈52'27 -0°33'05
direct	2995 Sep 15 07:48	7° る 09'59	minimum elong	3002 Jan 27 16:26	6°≈52'27 0°33'05
evening set	2995 Dec 17 11:04	10° る 25'28	max. Earth dist.	3002 Jan 28 10:21	6°≈55'06 20.56804 AU
C			morning rise	3002 Feb 12 07:47	7° ≈ 47'46
conjunction	2996 Jan 02 04:14	11°る22'19 -0°16'50	retrograde	3002 May 15 17:40	10°≈57'21
minimum elong	2996 Jan 02 04:14	11°る22'19 0°16'50	opposition	3002 Jul 31 22:37	8°≈58'21 -0°37'50
max. Earth dist.	2996 Jan 02 12:34	11°る23'34 20.16587 AU	min. Earth dist.	3002 Jul 31 05:13	9°≈00'06 18.59977 AU
	2996 Jan 17 20:06	11 82334 20.10387 AU 12°る19'00	direct	3002 Jul 31 03:13 3002 Oct 16 20:30	6°≈59'30
morning rise		12°る19'00 15°る32'02			
retrograde	2996 Apr 18 13:48		evening set	3003 Jan 16 09:23	10°≈06'45
opposition	2996 Jul 03 20:17	13°る32'19 -0°20'23			
min. Earth dist.	2996 Jul 03 12:01	13° る 33'10 18.19931 AU	conjunction	3003 Feb 01 00:12	11°≈01'47 -0°35'12
direct	2996 Sep 19 02:14	11° る 31'16	minimum elong	3003 Feb 01 00:12	11°≈01'47 0°35'11
evening set	2996 Dec 20 23:38	14° る 45'28	max. Earth dist.	3003 Feb 01 18:06	11°≈04′26 20.63079 AU
			morning rise	3003 Feb 16 15:51	11°≈56'56
conjunction	2997 Jan 05 16:07	15°る42'00 -0°19'55		3003 May 04 17:47	15° ≈
minimum elong	2997 Jan 05 16:07	15°る42'00 0°19'56	retrograde	3003 May 20 05:31	15°≈06'04
max. Earth dist.	2997 Jan 06 01:12	15°る43'22 20.23321 AU	S	3003 Jun 04 21:52	15°R≈
morning rise	2997 Jan 21 07:53	16°පි38'26	opposition	3003 Aug 05 12:44	13°≈07'11 -0°40'03
retrograde	2997 Apr 23 04:34	19°る50'49	min. Earth dist.	3003 Aug 03 12:44 3003 Aug 04 18:16	13°≈09'03 18.66125 AU
•	-			•	
opposition	2997 Jul 08 14:25	17°る51'10 -0°23'44	direct	3003 Oct 21 07:35	11°≈08'42
min. Earth dist.	2997 Jul 08 03:42	17°る52'16 18.26695 AU	evening set	3004 Jan 20 16:36	14°≈14'56
direct	2997 Sep 23 19:47	15° る 50'26		3004 Feb 02 13:17	15° ≈
evening set	2997 Dec 25 11:02	19° る 03'23			
			conjunction	3004 Feb 05 07:33	15° ≈ 09'46 -0°37'07
conjunction	2998 Jan 10 03:15	19°る59'39 -0°22'52	conjunction minimum elong	3004 Feb 05 07:33 3004 Feb 05 07:33	15°≈09'46 -0°37'07 15°≈09'46 0°37'08
conjunction minimum elong		19°る59'39 -0°22'52 19°る59'39 0°22'52	·		

morning rise	3004 Feb 20 23:13	16° ≈ 04'44		direct	3010 Nov 19 04:05	9° ∺ 36′21	
retrograde	3004 May 23 15:41	19° ≈ 13'27		evening set	3011 Feb 17 06:54	12°) 36′44	
min. Earth dist.	3004 Aug 08 07:01	17°≈16'37	18.71935 AU	Ü			
opposition	3004 Aug 09 02:15	17° ≈ 14'41		conjunction	3011 Mar 04 23:18	13°) 30′40	-0°44'41
direct	3004 Oct 24 20:07	15°≈16'32	0 12 03	minimum elong	3011 Mar 04 23:18	13° ₩ 30'40	
				_			
evening set	3005 Jan 23 23:36	18° ≈ 21'47		max. Earth dist.	3011 Mar 05 21:50		20.99639 AU
				morning rise	3011 Mar 20 18:17	14°) 24′56	
conjunction	3005 Feb 08 14:24	19° ≈ 16′27	-0°38'50	retrograde	3011 Jun 22 07:26	17° ¥ 31′22	
minimum elong	3005 Feb 08 14:24	19° ≈ 16′27	0°38'49	min. Earth dist.	3011 Sep 07 08:48	15°) 34'47	19.01163 AU
max. Earth dist.	3005 Feb 09 09:57	19° ≈ 19'19	20.74682 AU	opposition	3011 Sep 08 06:57	15°) 32'34	-0°49'31
morning rise	3005 Feb 24 06:32	20°≈11'16		direct	3011 Nov 23 10:52	13°) €35'48	
retrograde	3005 May 28 02:44	23° ≈ 19'35		evening set	3012 Feb 21 10:43	16° ¥ 35'36	
opposition	3005 Aug 13 15:01	21°≈20'53	-0°43'50	evening sec	3012100 21 10.13	10 7(3030	
min. Earth dist.	•		18.77369 AU	agniumation	3012 Mar 08 03:46	17° ₩ 29'28	0044152
	3005 Aug 12 19:17		16.77309 AU	conjunction			
direct	3005 Oct 29 06:00	19° ≈ 23'01		minimum elong	3012 Mar 08 03:46	17° ∺ 29'28	
evening set	3006 Jan 28 05:55	22° ≈ 27'21		max. Earth dist.	3012 Mar 09 03:50		21.02514 AU
				morning rise	3012 Mar 23 23:15	18° ¥ 23'42	
conjunction	3006 Feb 12 21:00	23° ≈ 21'51	-0°40'21	retrograde	3012 Jun 25 15:56	21° ∺ 29'59	
minimum elong	3006 Feb 12 21:00	23° ≈ 21'51	0°40'22	opposition	3012 Sep 11 15:41	19° ∺ 31'10	-0°49'37
max. Earth dist.	3006 Feb 13 18:06	23° ≈ 24'56	20.79891 AU	min. Earth dist.	3012 Sep 10 16:45	19°) 33′27	19.03864 AU
morning rise	3006 Feb 28 13:18	24° ≈ 16'32		direct	3012 Nov 26 18:10	17°) 34'33	
retrograde	3006 Jun 01 12:03	27° ≈ 24'27		evening set	3013 Feb 24 14:40	20°) 33′50	
min. Earth dist.			18.82352 AU	evening set	3013100 24 14.40	20 7(3330	
	3006 Aug 17 06:49				2012.14 12 00 06	210)/27140	0044152
opposition	3006 Aug 18 03:11	25°≈25'48	-0°45′23	conjunction	3013 Mar 12 08:06	21° H 27'40	
direct	3006 Nov 02 17:03	23° ≈ 28'12		minimum elong	3013 Mar 12 08:06	21°) 27'40	
evening set	3007 Feb 01 11:50	26° ≈ 31'38		max. Earth dist.	3013 Mar 13 07:23	21°) 31'01	21.05044 AU
				morning rise	3013 Mar 28 04:28	22° ∺ 21'54	
conjunction	3007 Feb 17 02:55	27° ≈ 25'58	-0°41'39	retrograde	3013 Jun 29 22:47	25° ∺ 28′03	
minimum elong	3007 Feb 17 02:55	27° ≈ 25'58	0°41'39	opposition	3013 Sep 15 23:58	23° ∺ 29'13	-0°49'29
max. Earth dist.	3007 Feb 17 23:24	27°≈28'58	20.84651 AU	min. Earth dist.	3013 Sep 15 01:31	23°₩31'28	19.06222 AU
morning rise	3007 Mar 04 19:46	28° ≈ 20'33		direct	3013 Nov 30 23:28	21°) 32'45	
morning rise	3007 Apr 05 17:57	0° ∀		evening set	3014 Feb 28 18:24	24°) (31'37	
ratra ara da	•			evening set	30141100 20 10.24	24 N 3137	
retrograde	3007 Jun 05 22:08	1° ¥ 28′07					
	3007 Aug 09 17:28	30° R ≈		conjunction	3014 Mar 16 12:36	25° ¥ 25′26	
opposition	3007 Aug 22 14:48	29° ≈ 29'28	-0°46'42	minimum elong	3014 Mar 16 12:36	25° ∺ 25'26	
min. Earth dist.	3007 Aug 21 18:13	29° ≈ 31'31	18.86898 AU	max. Earth dist.	3014 Mar 17 13:02	25° ∺ 28'57	21.07210 AU
direct	3007 Nov 07 02:09	27° ≈ 32′03		morning rise	3014 Apr 01 09:33	26° ∺ 19'40	
	3008 Jan 26 07:41	0°) €		retrograde	3014 Jul 04 07:13	29°) €25'44	
evening set	3008 Feb 05 17:08	0°) 34'38		min. Earth dist.	3014 Sep 19 08:56	27° ₩ 29'13	19.08184 AU
8				opposition	3014 Sep 20 07:56	27°) €26'55	
conjunction	3008 Feb 21 08:38	1° ¥ 28'51	-0°42'44	direct	3014 Dec 05 06:15	25° ₩ 30'36	0 .5 00
minimum elong	3008 Feb 21 08:38	1° ∺ 28'51			3015 Mar 04 22:10	28° H 29'06	
				evening set	3013 Mai 04 22.10	28 X 2900	
max. Earth dist.	3008 Feb 22 06:41		20.88976 AU			>/	
morning rise	3008 Mar 08 01:47	2° ∺ 23'19		conjunction	3015 Mar 20 16:49	29° ₩ 22'55	
retrograde	3008 Jun 09 06:38	5° ∺ 30'32		minimum elong	3015 Mar 20 16:49	29° ∺ 22'55	0°44'15
min. Earth dist.	3008 Aug 25 04:24	3°) 34′00	18.91011 AU	max. Earth dist.	3015 Mar 21 16:13	29° ∺ 26'16	21.08971 AU
opposition	3008 Aug 26 01:43	3° ∺ 31'52	-0°47'46		3015 Mar 31 12:40	0 ° Υ	
direct	3008 Nov 10 11:48	1° ∺ 34'39		morning rise	3015 Apr 05 14:42	0° Υ 17'10	
evening set	3009 Feb 08 22:04	4°) 36′25		retrograde	3015 Jul 08 14:09	3° Y 23'14	
				opposition	3015 Sep 24 15:49	1° Y 24'24	-0°48'32
conjunction	3009 Feb 24 13:43	5°) 30'31	-0°43'36	min. Earth dist.	3015 Sep 23 17:37		19.09737 AU
minimum elong	3009 Feb 24 13:43	5°) (30'31		min Daruf Gige.	3015 Nov 03 00:23	30° ₹	19.09,757,110
max. Earth dist.	3009 Feb 25 11:15		20.92892 AU	direct	3015 Dec 09 10:33	29° H 28'12	
			20.92692 AU	unect			
morning rise	3009 Mar 12 07:35	6°) 24'54		_	3016 Jan 13 21:56	0° Υ	
retrograde	3009 Jun 13 15:35	9°) 31′49		evening set	3016 Mar 08 02:00	2° Y 26′25	
opposition	3009 Aug 30 12:04	7° ₩ 33'05					
min. Earth dist.	3009 Aug 29 14:41	7° ∺ 35'14	18.94747 AU	conjunction	3016 Mar 23 21:30	3° Y 20′16	-0°43'36
direct	3009 Nov 14 19:48	5° ∺ 36′01		minimum elong	3016 Mar 23 21:30	3° Y 20′16	0°43'37
evening set	3010 Feb 13 02:34	8°) €37'04		max. Earth dist.	3016 Mar 24 21:44	3° Y 23'44	21.10299 AU
-				morning rise	3016 Apr 08 20:02	4° Υ 14'34	
conjunction	3010 Feb 28 18:43	9°) 31′04	-0°44'15	retrograde	3016 Jul 11 22:14	7° Υ 20'38	
minimum elong	3010 Feb 28 18:43	9°) 31'04		opposition	3016 Sep 27 23:15	5° Υ 21'48	-0°47'43
_	3010 Mar 01 17:49		20.96436 AU		=		19.10823 AU
max. Earth dist.			20.70430 AU	min. Earth dist.	3016 Sep 27 00:50		17.10623 AU
morning rise	3010 Mar 16 12:57	10° ¥ 25′23		direct	3016 Dec 12 17:01	3° Y 25'42	
retrograde	3010 Jun 17 23:39	13°) 32′02		evening set	3017 Mar 12 06:09	6° Y 23'42	
opposition	3010 Sep 03 21:37	11° ∺ 33'16					
min. Earth dist.	3010 Sep 02 23:25	11° ∺ 35′29	18.98115 AU	conjunction	3017 Mar 28 02:13	7° Ƴ 17'35	-0°42'46

minimum elong	3017 Mar 28 02:14	7° Y 17'35	0°42'46	opposition	3023 Oct 26 23:59	3° 8 06'57	-0°35'57
max. Earth dist.	3017 Mar 29 00:56		21.11138 AU	min. Earth dist.	3023 Oct 26 08:23		19.03181 AU
morning rise	3017 Apr 13 01:48	8° Υ 11'57	21.11130110	direct	3024 Jan 10 03:17	1° 8 10'22	17.03101710
retrograde	3017 Jul 16 05:52	11° Υ 18'05		evening set	3024 Apr 08 17:08	4° 8 08'40	
min. Earth dist.	3017 Oct 01 09:35		19.11403 AU	evening sec	302171p1 00 17.00	. 000 10	
opposition	3017 Oct 01 05:33 3017 Oct 02 06:41	9° Υ 19'13		conjunction	3024 Apr 24 19:31	5° 8 03'21	-0°31'28
direct	3017 Oct 02 00:41 3017 Dec 16 20:56	7° Υ 23'10	-0 4040	minimum elong	3024 Apr 24 19:31 3024 Apr 24 19:32	5° 8 03'21	
		10° Y 21'02		max. Earth dist.		_	21.01717 AU
evening set	3018 Mar 16 10:22	10 12102			3024 Apr 25 13:08	_	21.01/1/ AU
	2010 4 01 07 21	1100014150	0041144	morning rise	3024 May 11 01:27	5° 8 58'33	
conjunction	3018 Apr 01 07:21	11° Υ 14'59		retrograde	3024 Aug 13 14:23	9° 8 05'53	0022120
minimum elong	3018 Apr 01 07:21	11° Υ 14'59		opposition	3024 Oct 30 06:27	7° 8 06'09	
max. Earth dist.	3018 Apr 02 06:23		21.11436 AU	min. Earth dist.	3024 Oct 29 14:57		19.00198 AU
morning rise	3018 Apr 17 07:36	12° Y ′09'25		direct	3025 Jan 13 09:19	5° 8 09'24	
retrograde	3018 Jul 20 13:40	15° Y 15'37		evening set	3025 Apr 12 23:38	8° 8 08'02	
opposition	3018 Oct 06 13:46	13° Y 16'44					
min. Earth dist.	3018 Oct 05 16:43		19.11408 AU	conjunction	3025 Apr 29 02:51	9° 8 02'54	-0°29'10
direct	3018 Dec 21 03:08	11° Y 20'42		minimum elong	3025 Apr 29 02:51	9° 8 02'54	0°29'11
evening set	3019 Mar 20 14:59	14° Ƴ 18′29		max. Earth dist.	3025 Apr 29 18:25	9° 8 05'07	20.98560 AU
				morning rise	3025 May 15 09:54	9° 8 58'18	
conjunction	3019 Apr 05 12:37	15° Ƴ 12'30	-0°40'29	retrograde	3025 Aug 17 22:27	13° 8 05'57	
minimum elong	3019 Apr 05 12:37	15° Ƴ 12'30	0°40'29	opposition	3025 Nov 03 13:15	11° 8 06'05	-0°30'52
max. Earth dist.	3019 Apr 06 09:43	15° Ƴ 15'30	21.11155 AU	min. Earth dist.	3025 Nov 02 23:36	11° 8 07'29	18.96872 AU
morning rise	3019 Apr 21 13:55	16° Ƴ 07'01		direct	3026 Jan 17 13:27	9° 8 09'09	
retrograde	3019 Jul 24 21:36	19° Ƴ 13′21		evening set	3026 Apr 17 06:24	12° 8 08'14	
opposition	3019 Oct 10 20:59	17° Ƴ 14'22	-0°43'56	8	r		
min. Earth dist.	3019 Oct 10 01:33		19.10836 AU	conjunction	3026 May 03 10:44	13° 8 03'17	-0°26'43
direct	3019 Dec 25 07:06	15° Υ 18'18	17.10050710	minimum elong	3026 May 03 10:44	13° 8 03'17	
evening set	3020 Mar 23 19:33	18° Y 16′02		max. Earth dist.	3026 May 04 02:16	_	20.95072 AU
evening set	3020 Wai 23 17.33	10 11002		morning rise	3026 May 19 18:33	13° 8 58'52	20.73072 AO
conjunction	3020 Apr 08 18:14	19° Ƴ 10'10	0020102	morning risc	3026 Jun 07 20:51	15° 8	
		19 1 10 10 19° Y 10′10		ratra ara da	3026 Aug 22 08:34	13 8 17° 8 06'54	
minimum elong	3020 Apr 08 18:14	19 Y 10 10 19° Y 13'11		retrograde		_	0020104
max. Earth dist.	3020 Apr 09 15:27		21.10292 AU	opposition	3026 Nov 07 20:02	15° 8 06'55	
morning rise	3020 Apr 24 20:20	20° Y 04'47		min. Earth dist.	3026 Nov 07 06:26		18.93215 AU
retrograde	3020 Jul 28 05:34	23° Y 11'14	10.00671.177		3026 Nov 10 15:55	15°R 8	
min. Earth dist.	3020 Oct 13 08:36		19.09671 AU	direct	3027 Jan 21 19:29	13° 8 09'50	
opposition	3020 Oct 14 03:52	21°Υ12'08	-0°42'14		3027 Mar 30 16:27	15° 8	
direct	3020 Dec 28 13:13	19° Ƴ 15'59		evening set	3027 Apr 21 13:58	16° 8 09'24	
evening set	3021 Mar 28 00:38	22° Y 13'45					
				conjunction	3027 May 07 19:08	17° 8 04'40	-0°24'07
conjunction	3021 Apr 13 00:03	23° Ƴ 07'59		minimum elong	3027 May 07 19:08	17° 8 04'40	0°24'08
minimum elong	3021 Apr 13 00:04	23° Ƴ 07'59		max. Earth dist.	3027 May 08 08:33	17° 8 06'35	20.91264 AU
max. Earth dist.	3021 Apr 13 19:15	23° Y 10'43	21.08855 AU	morning rise	3027 May 24 04:04	18° 8 00'28	
morning rise	3021 Apr 29 03:16	24° Y 02'44		retrograde	3027 Aug 26 17:41	21° 8 08'56	
retrograde	3021 Aug 01 13:10	27° Y 09'21		opposition	3027 Nov 12 03:10	19° 8 08'50	-0°25'08
opposition	3021 Oct 18 10:36	25° Ƴ 10′05	-0°40'20	min. Earth dist.	3027 Nov 11 15:35	19° 8 10'01	18.89253 AU
min. Earth dist.	3021 Oct 17 17:11	25° Ƴ 11'51	19.07970 AU	direct	3028 Jan 26 00:07	17° 8 11'34	
direct	3022 Jan 01 17:13	23° Ƴ 13'49		evening set	3028 Apr 24 22:02	20° 8 11'43	
evening set	3022 Apr 01 05:46	26° Ƴ 11'41					
-	•			conjunction	3028 May 11 04:23	21° 8 07'13	-0°21'24
conjunction	3022 Apr 17 06:17	27° Ƴ 06′03	-0°35'37	minimum elong	3028 May 11 04:23	21° 8 07'13	0°21'24
minimum elong	3022 Apr 17 06:17	27° Y ′06′03		max. Earth dist.	3028 May 11 17:29		20.87151 AU
max. Earth dist.	3022 Apr 18 01:36		21.06910 AU	morning rise	3028 May 27 14:07	22° 8 03'15	
morning rise	3022 May 03 10:16	28° Υ '00'56		retrograde	3028 Aug 30 05:08	25° 8 12'09	
morning rise	3022 Jun 12 22:19	0°8		opposition	3028 Nov 15 10:25	23° 8 11'59	-0°22'04
retrograde	3022 July 12 22:19 3022 Aug 05 21:33	1° 8 07'44		min. Earth dist.	3028 Nov 14 23:08		18.84966 AU
retrograde	3022 Aug 03 21:33 3022 Sep 30 15:21	1 007 44 30°RΥ		direct	3029 Jan 29 06:35	23° 8 13'09	18.84900 AU
opposition	3022 Scp 30 13:21 3022 Oct 22 17:13	29° Y 08'19	0020114	evening set	3029 Apr 29 07:07	24° 8 15'21	
**				evening set	3029 Apr 29 07.07	24 01321	
min. Earth dist.	3022 Oct 21 23:52		19.05783 AU	aanivti	2020 M 15 14 16	250 41100	0010124
direct	3023 Jan 05 23:17	27° Y 11'54		conjunction	3029 May 15 14:16	25° 8 11'06	
. ,	3023 Apr 02 11:21	0°8		minimum elong	3029 May 15 14:16	25° 8 11'06	
evening set	3023 Apr 05 11:15	0° 8 09'56		max. Earth dist.	3029 May 16 00:58		20.82698 AU
				morning rise	3029 Jun 01 01:01	26° 8 07'21	
conjunction	3023 Apr 21 12:31	1° 8 04'27		retrograde	3029 Sep 03 15:27	29° 8 16'46	
minimum elong	3023 Apr 21 12:31	1° 8 04'27		opposition	3029 Nov 19 18:02	27° 8 16'30	
max. Earth dist.	3023 Apr 22 06:01		21.04510 AU	min. Earth dist.	3029 Nov 19 09:07		18.80342 AU
morning rise	3023 May 07 17:38	1° 8 59'30		direct	3030 Feb 02 11:46	25° 8 18'50	
retrograde	3023 Aug 10 05:12	5° 8 06'33		evening set	3030 May 03 16:47	28° 8 20'24	

conjunction	3030 May 20 01:04	29° 8 16'24	-0°15'37	behind sun end	3035 Jun 11 01:55	20° I I06'32	
minimum elong	3030 May 20 01:04	29° 8 16'24		max. Earth dist.	3035 Jun 10 18:44		20.48142 AU
behind sun begin	3030 May 19 23:49	29° 8 16'14	0 13 3 7	morning rise	3035 Jun 27 10:36	21° I I03'25	20.10112110
behind sun end	3030 May 20 02:19	29° 8 16'35		retrograde	3035 Sep 29 21:39	24° I 16'07	
max. Earth dist.	3030 May 20 11:03		20.77902 AU	opposition	3035 Dec 15 00:27	22° I 14'52	0°02'16
max. Dartii dist.	3030 Jun 01 17:06	0°II	20.77702110	min. Earth dist.	3035 Dec 15 01:41		18.44723 AU
morning rise	3030 Jun 05 12:33	0° Ⅱ 12'54		direct	3036 Feb 27 14:01	20° Ⅱ 15'11	10.44725710
retrograde	3030 Sep 08 04:26	3° I I22'50		evening set	3036 May 28 21:14	23° I I22'12	
opposition	3030 Nov 24 01:58	1° II 22'29	-0°15'33	evening set	3030 Way 20 21.14	23 112 12	
min. Earth dist.	3030 Nov 24 01:38 3030 Nov 23 17:38		18.75349 AU	conjunction	3036 Jun 14 10:58	24° Ⅱ 19'56	0°03'45
mm. Earm dist.	3030 Nov 23 17:38 3030 Dec 30 23:11	30°R 8	16.73349 AU	minimum elong	3036 Jun 14 10:58	24° Ⅱ 19'56	0°03'45
direct	3030 Bec 30 23:11 3031 Feb 06 19:34	29° 8 24'36		behind sun begin	3036 Jun 14 04:18	24° Ⅱ 19′50	0 03 43
unect	3031 Nar 15 21:55	29 O 24 30 0° I		behind sun end	3036 Jun 14 17:38	24° II 20'53	
. ,							20 41212 411
evening set	3031 May 08 03:25	2° Ⅱ 26'57		max. Earth dist.	3036 Jun 14 09:10	24°Щ19'43 25°Щ18'02	20.41313 AU
:	2021 M 24 12-21	20П22112	0012124	morning rise	3036 Jul 01 02:56		
conjunction	3031 May 24 12:31	3° Ⅱ 23'13		retrograde	3036 Oct 03 13:32	28° Ⅲ 31'19	0005157
minimum elong	3031 May 24 12:31	3° Ⅱ 23'13	0°12′34	opposition	3036 Dec 18 10:59	26° Ⅱ 29'51	0°05'56
behind sun begin	3031 May 24 08:16	3° Ⅱ 22'37		min. Earth dist.	3036 Dec 18 12:48	26° Ⅱ 29'40	18.37814 AU
behind sun end	3031 May 24 16:45	3° Ⅱ 23'49		direct	3037 Mar 03 02:17	24° Ⅲ 29'44	
max. Earth dist.	3031 May 24 19:51		20.72714 AU	evening set	3037 Jun 02 13:01	27° Ⅱ 37'50	
morning rise	3031 Jun 10 00:58	4° Ⅱ 19'59				_	
retrograde	3031 Sep 12 15:41	7° Ⅱ 30′28		conjunction	3037 Jun 19 03:25	28° Ⅱ 35'53	0°07'03
opposition	3031 Nov 28 10:32	5° Ⅱ 29'59		minimum elong	3037 Jun 19 03:24	28° Ⅲ 35'53	0°07'03
min. Earth dist.	3031 Nov 28 04:53		18.69960 AU	behind sun begin	3037 Jun 18 21:11	28° Ⅱ 34'59	
direct	3032 Feb 11 01:30	3° Ⅱ 31'50		behind sun end	3037 Jun 19 09:38	28° Ⅱ 36'46	
evening set	3032 May 11 14:54	6° Ⅲ 35′01		max. Earth dist.	3037 Jun 18 23:26		20.34338 AU
				morning rise	3037 Jul 05 19:55	29° Ⅲ 34'15	
conjunction	3032 May 28 01:07	7° Ⅱ 31'34	-0°09'27		3037 Jul 13 10:18	0 \circ \mathfrak{S}	
minimum elong	3032 May 28 01:07	7° Ⅱ 31'34	0°09'27	retrograde	3037 Oct 08 03:07	2° 5 48'07	
behind sun begin	3032 May 27 19:33	7° Ⅱ 30'47		opposition	3037 Dec 22 22:10	0°9346'28	0°09'36
behind sun end	3032 May 28 06:41	7° Ⅲ 32'21		min. Earth dist.	3037 Dec 23 02:24	0°9346'01	18.30808 AU
max. Earth dist.	3032 May 28 07:14	7° Ⅱ 32'26	20.67124 AU		3038 Jan 10 16:32	30° Ŗ Ⅱ	
morning rise	3032 Jun 13 14:16	8° Ⅱ 28'35		direct	3038 Mar 07 12:32	28° Ⅱ 45'54	
retrograde	3032 Sep 16 06:17	11° Ⅱ 39'37			3038 Apr 30 20:06	0°9	
opposition	3032 Dec 01 19:13	9° Ⅱ 38'59	-0°08'37	evening set	3038 Jun 07 05:34	1° 9 55'08	
min. Earth dist.	3032 Dec 01 14:23	9° Ⅱ 39'29	18.64157 AU	C			
direct	3033 Feb 14 11:02	7° Ⅱ 40'30		conjunction	3038 Jun 23 20:44	2° © 53'29	0°10'19
evening set	3033 May 16 03:24	10° Ⅱ 44'35		minimum elong	3038 Jun 23 20:44	2° © 53'29	0°10'20
Č	,			behind sun begin	3038 Jun 23 15:27	2° © 52'44	
conjunction	3033 Jun 01 14:24	11° Ⅱ 41′26	-0°06'15	behind sun end	3038 Jun 24 02:01	2° 9 54'15	
minimum elong	3033 Jun 01 14:24	11° Ⅱ 41′26		max. Earth dist.	3038 Jun 23 15:24		20.27320 AU
behind sun begin	3033 Jun 01 08:03	11° Ⅱ 40′32		morning rise	3038 Jul 10 13:43	3°952'08	
behind sun end	3033 Jun 01 20:45	11° II 42'19		retrograde	3038 Oct 12 20:00	7° 5 06'38	
max. Earth dist.	3033 Jun 01 17:41		20.61124 AU	opposition	3038 Dec 27 09:48	5° © 04'47	0°13'14
morning rise	3033 Jun 18 04:25	12° Ⅲ 38'43		min. Earth dist.	3038 Dec 27 14:26		18.23788 AU
retrograde	3033 Sep 20 17:54	15° Ⅱ 50'17		direct	3039 Mar 12 01:44	3°903'48	10.25,00110
opposition	3033 Dec 06 04:37	13° Ⅱ 49'28	-0°05'02	evening set	3039 Jun 11 23:04	6°9514'12	
min. Earth dist.	3033 Dec 06 02:33		18.57972 AU	evening sec	3037 Juli 11 23.01	0 01112	
direct	3034 Feb 18 18:13	11° II 50'37	10.57772110	conjunction	3039 Jun 28 14:52	7°9512'52	0°13'34
evening set	3034 May 20 16:22	14° II 55'38		minimum elong	3039 Jun 28 14:52	7°512'52	
evening set	3034 Way 20 10.22	14 11 33 30		behind sun begin	3039 Jun 28 11:18	7° © 12'21	0 13 33
conjunction	3034 Jun 06 04:24	15° Ⅱ 52'46	0.03,00	behind sun end	3039 Jun 28 18:27	7°512'23	
minimum elong	3034 Jun 06 04:23	15° II 52'46		max. Earth dist.	3039 Jun 28 07:47		20.20301 AU
•	3034 Jun 05 21:41	15° I 51'49	0 03 01		3039 Jul 15 08:16	8°9511'48	20.20301 AU
behind sun begin behind sun end	3034 Jun 06 11:05	15 I I 51 49 15° I I 53'42		morning rise		11°©26'55	
			20 5 4770 ATT	retrograde	3039 Oct 17 11:18	9° © 24'55	091740
max. Earth dist.	3034 Jun 06 06:26		20.54778 AU	opposition	3039 Dec 31 22:16		0°16'49
morning rise	3034 Jun 22 19:02	16° Ⅱ 50'19		min. Earth dist.	3040 Jan 01 05:07		18.16797 AU
retrograde	3034 Sep 25 09:13	20° Ⅱ 02'27	0901124	direct	3040 Mar 15 13:42	7°523'31	
opposition	3034 Dec 10 14:17	18° Ⅱ 01'26		evening set	3040 Jun 15 17:36	10° © 35'10	
min. Earth dist.	3034 Dec 10 12:52		18.51467 AU		2040 1 1 02 10 07	11000 400	0017147
direct	3035 Feb 23 05:17	16° Ⅱ 02'11		conjunction	3040 Jul 02 10:02	11°934'08	0°16'45
asc. node	3035 May 01 02:17	17° II 50'35		minimum elong	3040 Jul 02 10:02	11°934'08	0°16'45
evening set	3035 May 25 06:26	19° Ⅱ 08'09		max. Earth dist.	3040 Jul 02 01:21		20.13352 AU
	2025 1 22 22	•••	000017	morning rise	3040 Jul 19 03:47	12°933'20	
conjunction	3035 Jun 10 19:12	20° Ⅱ 05'35		retrograde	3040 Oct 21 05:17	15° © 49'07	
minimum elong	3035 Jun 10 19:13	20° Ⅱ 05'35	0°00'23	opposition	3041 Jan 04 11:08	13° © 46'59	
behind sun begin	3035 Jun 10 12:30	20° Ⅱ 04'38		min. Earth dist.	3041 Jan 04 18:24	13°5546'12	18.09894 AU

direct	2041 Mar 20, 04:01	11° 5 45'12		agniunation	2047 Aug 05 01:17	13° Ω 01'15	0°35'53
direct evening set	3041 Mar 20 04:01 3041 Jun 20 13:09	11 \$343 12 14°\$58'08		conjunction minimum elong	3047 Aug 05 01:17 3047 Aug 05 01:17	13° Ω 01'15	0°35'53
evening set	3041 Juli 20 13.09	14 30000		morning rise	3047 Aug 03 01:17 3047 Aug 21 18:50	13 δ 01 13	0 33 33
conjunction	3041 Jul 07 06:07	15° © 57'25	0°19'52	morning rise	3047 Aug 21 16:30 3047 Sep 07 14:08	15°Ω	
minimum elong	3041 Jul 07 06:06	15°957'25	0°19'51	retrograde	3047 Nov 23 00:52	17° Ω 22'15	
max. Earth dist.	3041 Jul 06 20:00		20.06494 AU	opposition	3048 Feb 05 03:39	15° Ω 19'38	0°41'05
morning rise	3041 Jul 24 00:02	16°956'52	20.00 15 1.110	min. Earth dist.	3048 Feb 05 20:51		17.64822 AU
retrograde	3041 Oct 25 22:26	20°513'19			3048 Feb 12 16:32	15°RΩ	-,,,,,,,
opposition	3042 Jan 09 01:01	18°911'06	0°23'45	direct	3048 Apr 20 04:48	13°Ω15'22	
min. Earth dist.	3042 Jan 09 10:19	18° © 10'06	18.03102 AU		3048 Jun 24 00:33	15° Ω	
direct	3042 Mar 24 17:52	16°908'59		evening set	3048 Jul 23 08:51	16° Ω 37'22	
evening set	3042 Jun 25 09:30	19° © 23'12		max. Earth dist.	3048 Aug 08 05:09	17° Ω 35′08	19.61877 AU
conjunction	3042 Jul 12 02:53	20°522'47	0°22'53	conjunction	3048 Aug 09 03:07	17° Ω 38'30	0°37'55
minimum elong	3042 Jul 12 02:52	20° 5 22'47	0°22'53	minimum elong	3048 Aug 09 03:07	17° Ω 38'30	0°37'55
max. Earth dist.	3042 Jul 11 14:59	20°521'01	19.99774 AU	morning rise	3048 Aug 25 20:27	18° Ω 39'32	
morning rise	3042 Jul 28 21:04	21° © 22'30		retrograde	3048 Nov 26 23:29	22° Ω 00′11	
retrograde	3042 Oct 30 17:35	24° © 39'39		opposition	3049 Feb 08 22:37	19° Ω 57'27	
opposition	3043 Jan 13 15:28	22°537'21	0°27'03	min. Earth dist.	3049 Feb 09 16:51		17.59034 AU
min. Earth dist.	3043 Jan 14 01:20		17.96443 AU	direct	3049 Apr 25 01:34	17° Ω 52'48	
direct	3043 Mar 29 09:52	20°534'54		evening set	3049 Jul 28 11:20	21°Ω15'57	10.56001.444
evening set	3043 Jun 30 07:05	23°950'28	10.021 <i>(</i> 1.AII	max. Earth dist.	3049 Aug 13 07:44	22°8713'56	19.56231 AU
max. Earth dist.	3043 Jul 16 11:50	24*2048*23	19.93161 AU	agnismation	2040 Aug 14 05:29	22° Ω 17'18	0°39'42
conjunction	3043 Jul 17 00:53	24°950'21	0°25'47	conjunction minimum elong	3049 Aug 14 05:38 3049 Aug 14 05:38	$22^{\circ}\Omega^{17'18}$ $22^{\circ}\Omega^{17'18}$	0°39'42 0°39'41
minimum elong	3043 Jul 17 00:53	24 \$3021 24°\$50'21	0°25'48	morning rise	3049 Aug 30 22:21	$23^{\circ}\Omega 18'28$	0 3941
morning rise	3043 Aug 02 19:03	24 \$3021 25°\$50'19	0 23 46	retrograde	3049 Aug 30 22:21 3049 Dec 01 22:23	26° Ω 39'34	
retrograde	3043 Nov 04 12:21	29°508'07		opposition	3050 Feb 13 18:22	24° Ω 36'44	0°45'06
opposition	3044 Jan 18 06:43	27° © 05'47	0°30'13	min. Earth dist.	3050 Feb 14 13:21		17.53559 AU
min. Earth dist.	3044 Jan 18 18:45		17.89891 AU	direct	3050 Apr 29 23:13	22°Ω31'44	17.00007110
direct	3044 Apr 02 01:36	25°903'00	17.05051110	evening set	3050 Aug 02 14:25	25°Ω55'58	
evening set	3044 Jul 04 05:45	28° © 19'55		max. Earth dist.	3050 Aug 18 08:26		19.50945 AU
Č					C		
conjunction	3044 Jul 20 23:46	29° 5 20'04	0°28'34	conjunction	3050 Aug 19 08:19	26° Ω 57′29	0°41'14
minimum elong	3044 Jul 20 23:46	29° 5 20'04	0°28'33	minimum elong	3050 Aug 19 08:19	26° Ω 57'29	0°41'15
max. Earth dist.	3044 Jul 20 08:18	29° 5 17'45	19.86662 AU	morning rise	3050 Sep 05 00:41	27° Ω 58'49	
	3044 Aug 01 01:12	$0^{\circ}\Omega$			3050 Oct 12 10:18	0° ™	
morning rise	3044 Aug 06 18:02	0° Ω 20'17		retrograde	3050 Dec 06 20:53	1° m 20'19	
retrograde	3044 Nov 08 09:01	3° Ω 38'44			3051 Feb 02 00:59	30°R Ω	
opposition	3045 Jan 21 22:45	1° Ω 36'21		opposition	3051 Feb 18 14:46	29° Ω 17'22	
min. Earth dist.	3045 Jan 22 11:40		17.83444 AU	min. Earth dist.	3051 Feb 19 10:42		17.48488 AU
	3045 Mar 05 15:52	30° ₹ 5		direct	3051 May 04 20:55	27° Ω 12'00	
direct	3045 Apr 06 19:45	29° © 33'13			3051 Jul 28 05:40	0° m/y	
	3045 May 08 14:13	0° Ω		evening set	3051 Aug 07 17:59	0° m 37'17	
evening set	3045 Jul 09 05:12	2° Ω 51'28		· · · · · · · · · · · · ·	2051 A 24 11.44	10 7 20150	0942120
agniunation	3045 Jul 25 23:30	3° Ω 51'53	0°31'11	conjunction minimum elong	3051 Aug 24 11:44 3051 Aug 24 11:44	1° Mp 38'58 1° Mp 38'58	0°42'30 0°42'29
conjunction minimum elong	3045 Jul 25 23:30	3°Ω51'53		max. Earth dist.	3051 Aug 24 11:44 3051 Aug 23 12:20		19.46087 AU
max. Earth dist.	3045 Jul 25 07:06		19.80245 AU	morning rise	3051 Sep 10 03:22	2° Mp 40'23	17.40007 110
morning rise	3045 Aug 11 17:28	4° Ω 52'19	19.00213710	retrograde	3051 Dec 11 20:34	6° Mp 02'14	
retrograde	3045 Nov 13 05:09	8° Ω 11'23		opposition	3052 Feb 23 11:41	3° mp 59'13	0°47'56
opposition	3046 Jan 26 15:43	6° Ω 08'57	0°36'04	min. Earth dist.	3052 Feb 24 07:45		17.43867 AU
min. Earth dist.	3046 Jan 27 06:29		17.77084 AU	direct	3052 May 08 21:04	1° m 53'33	
direct	3046 Apr 11 13:28	4° Ω 05'27		evening set	3052 Aug 11 22:11	5° m) 19'48	
evening set	3046 Jul 14 05:39	7° Ω 24'59		-	•	•	
				conjunction	3052 Aug 28 15:21	6°Mp21′37	0°43'29
conjunction	3046 Jul 30 23:57	8° Ω 25'39	0°33'38	minimum elong	3052 Aug 28 15:21	6° ™ 21'37	0°43'28
minimum elong	3046 Jul 30 23:57	8° Ω 25'39		max. Earth dist.	3052 Aug 27 14:32		19.41719 AU
max. Earth dist.	3046 Jul 30 04:58		19.73951 AU	morning rise	3052 Sep 14 06:23	7° m 23'07	
morning rise	3046 Aug 16 17:54	9° Ω 26'18		retrograde	3052 Dec 15 18:47	10° m 45'18	
retrograde	3046 Nov 18 03:05	12° Ω 45'57		opposition	3053 Feb 27 09:26	8° Mp 42'13	0°48'53
opposition	3047 Jan 31 09:15	10° Ω 43'25		min. Earth dist.	3053 Feb 28 06:18		17.39786 AU
min. Earth dist.	3047 Feb 01 01:01		17.70870 AU	direct	3053 May 13 20:15	6° Mp 36'16	
direct	3047 Apr 16 09:10	8° Ω 39'32		evening set	3053 Aug 17 02:25	10° Mp 03'26	
evening set	3047 Jul 19 06:46	12° Ω 00'19	10 67007 411	aaminus -ti	2052 9 02 10 10	110 0 0 0 0 0 0	0044!10
max. Earth dist.	3047 Aug 04 05:48	12,9128,16	19.67807 AU	conjunction	3053 Sep 02 19:10	11° Mp 05'20 11° Mp 05'20	0°44'10 0°44'10
				minimum elong	3053 Sep 02 19:10	11 IIJUS 20	0 44 10

max. Earth dist.	3053 Sep 01 19:09	11° m 01'36	19.37920 AU	evening set	3060 Sep 20 14:35	13° ≏ 32'40	
morning rise	3053 Sep 19 09:23	12° Mp 06'54		max. Earth dist.	3060 Oct 06 03:40	14° ≏ 31′03	19.27597 AU
retrograde	3053 Dec 20 19:11	15° m 29'22					
opposition	3054 Mar 04 07:43	13° m 26'16	0°49'30	conjunction	3060 Oct 07 01:47	14° ≙ 34'33	0°40'34
min. Earth dist.	3054 Mar 05 03:59	13° m 24'03	17.36281 AU	minimum elong	3060 Oct 07 01:47	14° ≙ 34'33	0°40'34
direct	3054 May 18 22:23	11° m 20'09		morning rise	3060 Oct 23 09:13	15° ≙ 35'54	
evening set	3054 Aug 22 07:13	14° m 48'07		retrograde	3061 Jan 22 23:30	18° ≏ 58'53	
				opposition	3061 Apr 06 10:53	16° ≏ 56'29	0°44'21
conjunction	3054 Sep 07 23:19	15° m 50'06	0°44'34	min. Earth dist.	3061 Apr 07 06:38	16° ≏ 54'20	17.27877 AU
minimum elong	3054 Sep 07 23:18	15° m 50'06	0°44'33	direct	3061 Jun 21 17:31	14° ≙ 50'08	
max. Earth dist.	3054 Sep 06 22:36	15° Mp 46'14	19.34719 AU	evening set	3061 Sep 25 19:13	18° ≏ 21'01	
morning rise	3054 Sep 24 12:44	16° m 51'43		max. Earth dist.	3061 Oct 11 06:58	19° ≏ 19'15	19.28206 AU
retrograde	3054 Dec 25 17:52	20° m 14'24					
opposition	3055 Mar 09 06:34	18° Mp 11'21	0°49'47	conjunction	3061 Oct 12 05:16	19° ≏ 22'46	0°38'51
min. Earth dist.	3055 Mar 10 03:38		17.33399 AU	minimum elong	3061 Oct 12 05:16	19° ≙ 22'46	0°38'51
direct	3055 May 23 22:42	16° Mp 05′04		morning rise	3061 Oct 28 11:49	20° £ 24'01	
evening set	3055 Aug 27 12:14	19° m 33'48		retrograde	3062 Jan 28 00:53	23° ≏ 46'49	
max. Earth dist.	3055 Sep 12 03:36	20° Mp 32'04	19.32148 AU	opposition	3062 Apr 11 12:40	21° ≏ 44'30	0°42'18
				min. Earth dist.	3062 Apr 12 06:57	21° ≙ 42'30	17.28730 AU
conjunction	3055 Sep 13 03:45	20° m/35'50	0°44'39	direct	3062 Jun 26 22:15	19° ≏ 38'12	
minimum elong	3055 Sep 13 03:45	20° m/35'50	0°44'40	evening set	3062 Sep 30 23:24	23° ≏ 09'00	
morning rise	3055 Sep 29 16:19	21° Mp 37'28				_	
retrograde	3055 Dec 30 19:25	25° m 00'21		conjunction	3062 Oct 17 08:36	24° £ 10'37	
opposition	3056 Mar 13 06:00	22° m 57'23	0°49'44	minimum elong	3062 Oct 17 08:36	24° £ 10'37	0°36'53
min. Earth dist.	3056 Mar 14 02:09		17.31121 AU	max. Earth dist.	3062 Oct 16 12:15		19.29308 AU
direct	3056 May 28 02:11	20° m 51'02		morning rise	3062 Nov 02 13:54	25° ≙ 11'42	
evening set	3056 Aug 31 17:30	24° m/20'25		retrograde	3063 Feb 02 00:47	28° £ 34'14	
max. Earth dist.	3056 Sep 16 08:05	25° m) 18'42	19.30160 AU	opposition	3063 Apr 16 14:35	26° £ 32'01	0°39'57
				min. Earth dist.	3063 Apr 17 08:48	26° £ 30'03	17.30078 AU
conjunction	3056 Sep 17 08:13	25° m/22'29	0°44'27	direct	3063 Jul 02 01:49	24° £ 25'48	
minimum elong	3056 Sep 17 08:13	25° m 22'29	0°44'27	evening set	3063 Oct 06 03:15	27° £ 56′23	
morning rise	3056 Oct 03 19:48	26° Mp 24'07			20/20 + 22 11 12	200 0 57150	0024120
retrograde	3057 Jan 03 18:57	29° m/47'09	0040100	conjunction	3063 Oct 22 11:13	28° £ 57'50	0°34'39
opposition	3057 Mar 18 06:08	27° Mp 44'17	0°49'20	minimum elong	3063 Oct 22 11:13	28° £ 57'50	0°34'40
min. Earth dist.	3057 Mar 19 03:09	~	17.29429 AU	max. Earth dist.	3063 Oct 21 14:50		19.30927 AU
direct	3057 Jun 02 03:25	25° m 37'54		morning rise	3063 Nov 07 15:36	29° £ 58'45	
evening set	3057 Sep 05 22:51	29° m 07'50		. 1	3063 Nov 07 23:46	0°M	
	3057 Sep 19 21:52	0∘ ಹ		retrograde	3064 Feb 07 00:45	3°M20'59	0027110
· · · · · · · · · · · ·	2057 9 22 12:44	00 0 00152	0942155	opposition	3064 Apr 20 16:33	1°M 18'49	
conjunction	3057 Sep 22 12:44 3057 Sep 22 12:44	0° ₽ 09'53	0°43'55	min. Earth dist.	3064 Apr 21 09:12		17.31961 AU
minimum elong max. Earth dist.		0° ₽ 09'53	0°43'56 19.28752 AU	direct	3064 May 23 12:33 3064 Jul 06 06:36	30°R ≏ 29° ≏ 12'42	
morning rise	3057 Sep 21 12:50 3057 Oct 08 23:25	0 2 20008 1° 2 11'29	19.28/32 AU	direct	3064 Aug 18 00:58	0°M	
retrograde	3058 Jan 08 21:04	4° £ 34'37		evening set	3064 Oct 10 06:07	2°M42'56	
opposition	3058 Mar 23 06:37	2° £ 31'52	0°48'35	evening set	3004 Oct 10 00.07	2 11642 30	
min. Earth dist.	3058 Mar 24 02:28		17.28288 AU	conjunction	3064 Oct 26 13:09	3° M 44'11	0°32'11
direct	3058 Jun 07 07:39	2 = 2942 0° £ 25'28	17.28288 AU	minimum elong	3064 Oct 26 13:09	3°M44'11	0°32'11
evening set	3058 Sep 11 04:09	3° £ 55'50		max. Earth dist.	3064 Oct 25 19:21		19.33082 AU
e venning see	5050 Бер 11 01.05	3 —33 30		morning rise	3064 Nov 11 16:18	4°M44'54	17.55002 110
conjunction	3058 Sep 27 17:16	4° £ 57'52	0°43'06	retrograde	3065 Feb 10 23:48	8°M06'46	
minimum elong	3058 Sep 27 17:16	4° £ 57'52	0°43'07	opposition	3065 Apr 25 18:34	6°M04'42	0°34'27
max. Earth dist.	3058 Sep 26 18:00		19.27866 AU	min. Earth dist.	3065 Apr 26 10:20		17.34386 AU
morning rise	3058 Oct 14 02:51	5° £ 59'24	19.2,000110	direct	3065 Jul 11 11:10	3°M58'43	17.0 .000 110
retrograde	3059 Jan 13 21:16	9° £ 22'33		evening set	3065 Oct 15 08:30	7°M28'28	
opposition	3059 Mar 28 07:45	7° £ 19'56	0°47'30	evening see	3000 000 10 00.50	, 110,20,20	
min. Earth dist.	3059 Mar 29 04:25		17.27659 AU	conjunction	3065 Oct 31 14:17	8°M29'30	0°29'31
direct	3059 Jun 12 09:55	5° £ 13'31		minimum elong	3065 Oct 31 14:17	8°M29'30	0°29'31
evening set	3059 Sep 16 09:32	8° £ 44'12		max. Earth dist.	3065 Oct 30 21:00		19.35803 AU
<i>5</i>	-r			morning rise	3065 Nov 16 16:32	9°M30'01	
conjunction	3059 Oct 02 21:36	9° Ω 46'09	0°41'59	retrograde	3066 Feb 15 22:16	12°M51'29	
minimum elong	3059 Oct 02 21:36	9° £ 46'09	0°41'58	opposition	3066 Apr 30 20:15	10°M49'30	0°31'21
max. Earth dist.	3059 Oct 01 22:08		19.27490 AU	min. Earth dist.	3066 May 01 10:25		17.37405 AU
morning rise	3059 Oct 19 06:15	10° Ω 47'38		direct	3066 Jul 16 15:31	8°M43'39	
retrograde	3060 Jan 18 23:11	14° £ 10'43		evening set	3066 Oct 20 09:58	12°M12'52	
opposition	3060 Apr 01 09:02	12° ♀ 08'12	0°46'05	<i>3 ,</i>			
min. Earth dist.	3060 Apr 02 04:24		17.27524 AU	conjunction	3066 Nov 05 14:48	13°ML13'40	0°26'39
direct	3060 Jun 16 14:43	10° Ω 01'49		minimum elong	3066 Nov 05 14:48		0°26'39
				3			

max. Earth dist.	3066 Nov 05 00:16		19.39119 AU	conjunction	3072 Dec 03 00:17	11° х 10'39	0°06'49
morning rise	3066 Nov 21 15:55	14°M13'56		minimum elong	3072 Dec 03 00:17	11°× 7 10'39	0°06'49
ratra ara da	3066 Dec 04 11:22	15°M 17°M34'57		behind sun begin behind sun end	3072 Dec 02 18:08	11° 尽 09'43 11° 尽 11'35	
retrograde	3067 Feb 20 20:26		0020102	max. Earth dist.	3072 Dec 03 06:26		10 60715 AII
opposition min. Earth dist.	3067 May 05 21:56	15°M33'06	0°28'03 17.41003 AU	max. Earth dist.	3072 Dec 02 20:22 3072 Dec 18 20:02	11° × °10'05 12° × ⁷ 09'21	19.69715 AU
IIIII. Eartii dist.	3067 May 06 10:27 3067 May 18 22:09	15 11631 40 15°RM	17.41003 AU	retrograde	3072 Dec 18 20.02 3073 Mar 20 04:12	12 x ·0921 15° x ⁷ 27'05	
direct	3067 Jul 21 20:05	13°ML27'30		opposition	3073 Jun 03 01:56	13° x 27 03 13° x 26′28	0°05'35
direct	3067 Sep 20 15:24	15°M		min. Earth dist.	3073 Jun 03 04:04		17.72797 AU
evening set	3067 Oct 25 10:48	16°M56'02		direct	3073 Aug 19 06:02	11° × 2015	17.72797 AU
evening set	3007 Oct 23 10.46	10 11030 02		evening set	3073 Nov 21 21:24	14° × 45'55	
conjunction	3067 Nov 10 14:23	17°M56'35	0°23'37	evening set	30/31107 21 21.24	14 7 43 33	
minimum elong	3067 Nov 10 14:23	17°M56'35	0°23'37	conjunction	3073 Dec 07 18:58	15° ∡ ¹44'42	0°03'17
max. Earth dist.	3067 Nov 10 14:25		19.43019 AU	minimum elong	3073 Dec 07 18:59	15° х 44'42	0°03'17
morning rise	3067 Nov 26 14:34	18°M56'37	17.43017710	behind sun begin	3073 Dec 07 12:26	15° х 43'42	0 05 17
retrograde	3068 Feb 25 17:59	22°ML17'09		behind sun end	3073 Dec 08 01:32	15° × 45'41	
opposition	3068 May 09 23:24	20°MJ15'29	0°24'35	max. Earth dist.	3073 Dec 07 16:53		19.75959 AU
min. Earth dist.	3068 May 10 10:23		17.45196 AU	morning rise	3073 Dec 23 13:57	16° х 43'07	19.,0909110
direct	3068 Jul 25 22:45	18°ML10'08	17.13170110	retrograde	3074 Mar 24 21:50	20°×100'12	
evening set	3068 Oct 29 10:40	21°MJ37'57		opposition	3074 Jun 08 01:06	17° × 59'46	0°01'38
evening sec	2000 000 27 10.10	21 1103707		min. Earth dist.	3074 Jun 08 02:45		17.79127 AU
conjunction	3068 Nov 14 13:18	22°MJ38'14	0°20'27	direct	3074 Aug 24 04:15	15° ₹ 56'36	
minimum elong	3068 Nov 14 13:18	22°MJ38'14	0°20'27	desc. node	3074 Nov 07 21:34	18° х 13′22	
max. Earth dist.	3068 Nov 14 02:25		19.47499 AU	evening set	3074 Nov 26 16:05	19° ∡ 18′26	
morning rise	3068 Nov 30 12:26	23°MJ38'01		7 · · · · · · · · · · · · · · · · · · ·		-, ,	
retrograde	3069 Mar 01 16:09	26°M58'02		conjunction	3074 Dec 12 12:45	20° х 16′53	-0°00'21
opposition	3069 May 15 00:34	24°M56'34	0°20'58	minimum elong	3074 Dec 12 12:45	20° х 16′53	0°00'21
min. Earth dist.	3069 May 15 09:24	24°M.55'38	17.49924 AU	behind sun begin	3074 Dec 12 06:12	20° х 15′54	
direct	3069 Jul 31 01:59	22°M51'34		behind sun end	3074 Dec 12 19:18	20° ∡ 17'52	
evening set	3069 Nov 03 09:42	26°M18'33		max. Earth dist.	3074 Dec 12 11:49	20° ∡ 16'48	19.82356 AU
C				morning rise	3074 Dec 28 07:07	21° ≯ 15′00	
conjunction	3069 Nov 19 11:13	27°M18'32	0°17'09	retrograde	3075 Mar 29 17:49	24° ₹ 31'27	
minimum elong	3069 Nov 19 11:13	27°M18'32	0°17'09	opposition	3075 Jun 12 23:41	22° х 31′09	-0°02'18
max. Earth dist.	3069 Nov 19 01:42	27°M17'04	19.52481 AU	min. Earth dist.	3075 Jun 12 22:48	22° ₹ 31'15	17.85564 AU
morning rise	3069 Dec 05 09:30	28°ML18'05		direct	3075 Aug 29 05:08	20° ∡ 28′21	
	3070 Jan 04 13:17	0°⊀		evening set	3075 Dec 01 09:40	23° х 48′59	
retrograde	3070 Mar 06 12:57	1° ∡ ³37'35					
	3070 May 10 16:47	30°RM		conjunction	3075 Dec 17 05:33	24° ₰ 47'07	-0°03'55
opposition	3070 May 20 01:29	29°M36'19	0°17'14	minimum elong	3075 Dec 17 05:33	24° ₹ 47'07	0°03'54
min. Earth dist.	3070 May 20 09:11	29°M35'30	17.55135 AU	behind sun begin	3075 Dec 16 23:03	24° х 46′09	
direct	3070 Aug 05 02:32	27°ML31'39		behind sun end	3075 Dec 17 12:03	24° х ⁴48′06	
	3070 Oct 22 23:24	0° ∡		max. Earth dist.	3075 Dec 17 06:43	24° ∡ ⁴47'16	19.88829 AU
evening set	3070 Nov 08 07:57	0° ∡ 757'45		morning rise	3076 Jan 01 23:13	25° ∡ ¹44'57	
				retrograde	3076 Apr 02 10:00	29° ₹ 00'44	
conjunction	3070 Nov 24 08:28	1° ∡ 757′28	0°13'46	opposition	3076 Jun 16 21:51	27° ₹ 00'34	-0°06'12
minimum elong	3070 Nov 24 08:28	1° ∡ 757′28	0°13'46	min. Earth dist.	3076 Jun 16 20:27	27° ₹ 00'43	17.92074 AU
behind sun begin	3070 Nov 24 04:54	1° ∡ 756'55		direct	3076 Sep 02 02:13	24° ₹ 58'06	
behind sun end	3070 Nov 24 12:02	1° ≯ 58'00		evening set	3076 Dec 05 02:17	28° ҂ 17'30	
max. Earth dist.	3070 Nov 24 01:09		19.57902 AU				
morning rise	3070 Dec 10 05:50	2° ∡ 56'43		conjunction	3076 Dec 20 21:20	29° х 15′19 −	
retrograde	3071 Mar 11 11:06	6° ∡ 15'39		minimum elong	3076 Dec 20 21:20	29° х 15′19	0°07'23
opposition	3071 May 25 01:54	4°×14'38	0°13'24	behind sun begin	3076 Dec 20 15:19	29° х 14′25	
min. Earth dist.	3071 May 25 07:19		17.60726 AU	behind sun end	3076 Dec 21 03:22	29°×16'13	
direct	3071 Aug 10 05:02	2°×10'20		max. Earth dist.	3076 Dec 20 23:31		19.95373 AU
evening set	3071 Nov 13 05:25	5° ∡ 35'28			3077 Jan 02 01:14	0°る	
	2071 N. 20 04 52	(0.70.4150	0010110	morning rise	3077 Jan 05 14:35	0°る12'52	
conjunction	3071 Nov 29 04:53	6° ₹ 34'52	0°10'19	retrograde	3077 Apr 07 04:07	3°る27'58	0010101
minimum elong	3071 Nov 29 04:52	6° ₹ 34'52	0°10'18	opposition	3077 Jun 21 19:00	1°る27'54	
behind sun begin	3071 Nov 28 23:37	6°×734'04		min. Earth dist.	3077 Jun 21 15:02		17.98640 AU
behind sun end	3071 Nov 29 10:08	6° ₹35'40	10.62662 ATT	direct	3077 Jul 31 08:36	30°₹ ৴ 20° √ 72546	
max. Earth dist.	3071 Nov 28 23:12		19.63663 AU	direct	3077 Sep 07 01:24	29° ₹ 25'46	
morning rise	3071 Dec 15 01:23	7°× 7 33'52		ovening set	3077 Oct 13 16:12	0°る 2° ろ 4353	
retrograde	3072 May 29 02:13	10° ₹ 52'12	0°09'31	evening set	3077 Dec 09 17:43	2° る 43'53	
opposition min. Earth dist.	3072 May 29 02:13 3072 May 29 06:51	8° ≯ 51'23	17.66643 AU	conjunction	3077 Dec 25 12:12	3° ⋜ 41'24	0010146
direct	JU12 IVIAY 27 UU.JI	o x 3034	17.00043 AU	COMMUNICATION	JULI DEC 23 12.12	J U 4124	-0 1040
	•			v		30=7/11/2/	0°10'46
evening set	3072 Aug 14 04:11 3072 Nov 17 01:48	6° х 47′29 10° х 11′34		minimum elong behind sun begin	3077 Dec 25 12:12 3077 Dec 25 07:07	3° ට 41'24 3° ට 40'39	0°10'46

behind sun end	3077 Dec 25 17:16	3°₹42'10	opposition	3084 Jul 23 03:46	1°≈43'29 -0°33'10
max. Earth dist.	3077 Dec 25 16:48	3°ත්42'05 20.01958	**	3084 Jul 22 12:57	1°≈44'59 18.45981 AU
morning rise	3078 Jan 10 04:54	4°る38'41	710 mm. Earth dist.	3084 Sep 12 14:14	30°Rる
retrograde	3078 Apr 11 18:53	7° る 53'05	direct	3084 Oct 08 04:23	29° る 43'56
opposition	3078 Jun 26 15:40	5°る53'07 -0°13'45	direct	3084 Nov 02 06:06	0°≈
min. Earth dist.	3078 Jun 26 11:06	5°る53'35 18.05252	AU evening set	3085 Jan 08 04:30	2°≈53'37
direct	3078 Sep 11 21:08	3°る51'18	To croming sec	5005 tu li 00 0 1.50	2 17 03 3 7
evening set	3078 Dec 14 08:15	7°る08'10	conjunction	3085 Jan 23 19:40	3°≈49'10 -0°31'09
		, ••••	minimum elong	3085 Jan 23 19:40	3°≈49'10 0°31'09
conjunction	3078 Dec 30 01:57	8°る05'21 -0°14'04	max. Earth dist.	3085 Jan 24 11:06	3°≈51'28 20.49306 AU
minimum elong	3078 Dec 30 01:57	8°る05'21 0°14'05	morning rise	3085 Feb 08 11:08	4°≈44'44
behind sun begin	3078 Dec 29 22:34	8° る 04'51	retrograde	3085 May 11 18:57	7°≈55'04
behind sun end	3078 Dec 30 05:20	8° る 05'51	opposition	3085 Jul 27 19:14	5°≈56'01 -0°35'48
max. Earth dist.	3078 Dec 30 07:32	8° ප 06'11 20.08603	**	3085 Jul 27 02:45	5°≈57'41 18.52579 AU
morning rise	3079 Jan 14 18:22	9° る 02'21	direct	3085 Oct 12 18:13	3°≈56'51
retrograde	3079 Apr 16 11:15	12° る 16'06	evening set	3086 Jan 12 13:15	7°≈05'28
opposition	3079 Jul 01 11:23	10°る16'13 -0°17'22	**************************************		
min. Earth dist.	3079 Jul 01 04:07	10°る16'58 18.11933	AU conjunction	3086 Jan 28 04:23	8°≈00'47 -0°33'26
direct	3079 Sep 16 18:02	8° 궁 14'43	minimum elong	3086 Jan 28 04:23	8°≈00'47 0°33'26
evening set	3079 Dec 18 21:44	11° る 30'19	max. Earth dist.	3086 Jan 28 22:02	8°≈03'24 20.55784 AU
			morning rise	3086 Feb 12 19:46	8°≈56'10
conjunction	3080 Jan 03 14:57	12°る27'13 -0°17'16	retrograde	3086 May 16 06:02	12°≈06'00
minimum elong	3080 Jan 03 14:57	12°る27'13 0°17'17	opposition	3086 Aug 01 10:12	10°≈07'06 -0°38'13
max. Earth dist.	3080 Jan 03 23:18	12°る28'29 20.15317	* *	3086 Jul 31 17:07	10°≈08'49 18.58932 AU
morning rise	3080 Jan 19 06:53	13° る 23'57	direct	3086 Oct 17 06:46	8°≈08'19
retrograde	3080 Apr 20 00:55	16° る 37'03	evening set	3087 Jan 16 21:29	11°≈15'51
opposition	3080 Jul 05 06:37	14°る37'16 -0°20'51	7 , tg	200,000	
min. Earth dist.	3080 Jul 04 22:24	14°る38'07 18.18694	AU conjunction	3087 Feb 01 12:20	12°≈10'57 -0°35'32
direct	3080 Sep 20 12:12	12° る 36'08	minimum elong	3087 Feb 01 12:20	12°≈10'57 0°35'33
evening set	3080 Dec 22 10:17	15° る 50'30	max. Earth dist.	3087 Feb 02 05:53	12°≈13'32 20.61994 AU
evening sec	3000 200 22 10.17	15 65050	morning rise	3087 Feb 17 03:59	13°≈06'08
conjunction	3081 Jan 07 02:52	16°る47'05 -0°20'20		3087 Mar 25 23:33	15° ≈
minimum elong	3081 Jan 07 02:52	16°る47'05 0°20'20	retrograde	3087 May 20 18:04	16°≈15'32
max. Earth dist.	3081 Jan 07 12:08	16°る48'29 20.22120	•	3087 Jul 18 15:30	15°R≈
morning rise	3081 Jan 22 18:42	17°る43'34	min. Earth dist.	3087 Aug 05 06:18	14°≈18'33 18.64994 AU
retrograde	3081 Apr 24 15:42	20° る 56'04	opposition	3087 Aug 06 00:33	14°≈16'43 -0°40'25
opposition	3081 Jul 10 00:55	18°る56'24 -0°24'11	direct	3087 Oct 21 19:26	12°≈18'16
min. Earth dist.	3081 Jul 09 14:03	18°る57'31 18.25531		3088 Jan 13 22:27	15° ≈
direct	3081 Sep 25 06:17	16° る 55'38	evening set	3088 Jan 21 05:05	15°≈24'47
evening set	3081 Dec 26 21:58	20° ろ 08'48	7 , tg		
		_, _,,	conjunction	3088 Feb 05 20:03	16°≈19'41 -0°37'26
conjunction	3082 Jan 11 14:15	21°る05'07 -0°23'17	minimum elong	3088 Feb 05 20:02	16°≈19'41 0°37'25
minimum elong	3082 Jan 11 14:14	21°る05'07 0°23'17	max. Earth dist.	3088 Feb 06 15:31	16°≈22'33 20.67874 AU
max. Earth dist.	3082 Jan 12 02:12	21°る06'55 20.28970		3088 Feb 21 11:43	17°≈14'42
morning rise	3082 Jan 27 05:43	22° ろ 01'20	retrograde	3088 May 24 04:39	20°≈23'38
retrograde	3082 Apr 29 04:30	25° る 13'15	opposition	3088 Aug 09 14:15	18°≈24'55 -0°42'24
opposition	3082 Jul 14 18:27	23°る13'44 -0°27'22	min. Earth dist.	3088 Aug 08 19:29	18°≈26'48 18.70690 AU
min. Earth dist.	3082 Jul 14 06:43	23° る 14'56 18.32391		3088 Oct 25 07:09	16°≈26'46
direct	3082 Sep 29 22:27	21° る 13'23	evening set	3089 Jan 24 12:13	19° ≈ 32'16
evening set	3082 Dec 31 08:59	24°る25'21	<i>5</i>		
S			conjunction	3089 Feb 09 03:04	20°≈26'58 -0°39'08
conjunction	3083 Jan 16 00:43	25°る21'24 -0°26'04	minimum elong	3089 Feb 09 03:04	20°≈26'58 0°39'08
minimum elong	3083 Jan 16 00:43	25° る 21'24 0°26'03	max. Earth dist.	3089 Feb 09 22:05	20°≈29'46 20.73372 AU
max. Earth dist.	3083 Jan 16 13:16	25° る 23'17 20.35830		3089 Feb 24 19:12	21°≈21'51
morning rise	3083 Jan 31 16:13	26° る 17'24	retrograde	3089 May 28 15:26	24°≈30'22
retrograde	3083 May 03 18:04	29° る 28'46	min. Earth dist.	3089 Aug 13 07:49	22°≈33'36 18.75990 AU
opposition	3083 Jul 19 11:24	27°る29'24 -0°30'22	opposition	3089 Aug 14 03:17	22°≈31'39 -0°44'09
min. Earth dist.	3083 Jul 18 21:24	27° る 30'49 18.39235	**	3089 Oct 29 18:09	20°≈33'45
direct	3083 Oct 04 14:05	25° る 29'27	evening set	3090 Jan 28 18:41	23°≈38'18
evening set	3084 Jan 04 18:58	28° る 40'16		2 - 4	-
<i>5</i>		*	conjunction	3090 Feb 13 09:48	24°≈32'50 -0°40'37
conjunction	3084 Jan 20 10:31	29° ට 36'04 -0°28'42	minimum elong	3090 Feb 13 09:48	24°≈32'50 0°40'36
minimum elong	3084 Jan 20 10:31	29°る36'04 0°28'42	max. Earth dist.	3090 Feb 14 06:29	24°≈35'52 20.78450 AU
max. Earth dist.	3084 Jan 21 01:41	29°る38'19 20.42629		3090 Mar 01 02:05	25°≈27'34
Luitii uist.	3084 Jan 27 02:29	0°≈	retrograde	3090 Jun 02 01:05	28°≈35'39
morning rise	3084 Feb 05 01:48	0	opposition	3090 Aug 18 15:31	26°≈36'57 -0°45'39
retrograde	3084 Pcb 03 01:48 3084 May 07 06:02	3°≈42'40	min. Earth dist.	3090 Aug 17 19:35	26°≈38'57 18.80855 AU
- Un o Brudo	500. maj 07 00.02	5	Dartii dist.	50,0.1ug 1/ 17.55	_5

t' .	200031 02 05 20	240 - 2011 6			2007.14 12 21 22	2201/20122	0044150
direct	3090 Nov 03 05:28	24°≈39'16		minimum elong	3097 Mar 12 21:32	22°) 39'33 0	
evening set	3091 Feb 02 00:45	27° ≈ 42'52		max. Earth dist.	3097 Mar 13 20:52	22°) 42'54 2'	1.03968 AU
				morning rise	3097 Mar 28 17:55	23° ∺ 33'49	
conjunction	3091 Feb 17 15:52	28° ≈ 37'15	-0°41'53	retrograde	3097 Jun 30 12:38	26°) 40′04	
minimum elong	3091 Feb 17 15:52	28° ≈ 37'15	0°41'53	opposition	3097 Sep 16 13:07	24°) 41′13 -0)°49'28
max. Earth dist.	3091 Feb 18 12:05	28° ≈ 40′12	20.83119 AU	min. Earth dist.	3097 Sep 15 14:26	24°) 43'28 19	9.05195 AU
morning rise	3091 Mar 05 08:44	29° ≈ 31'52		direct	3097 Dec 01 12:14	22°) 44'42	
	3091 Mar 13 17:30	0° ∀		evening set	3098 Mar 01 07:55	25°) 43′42	
retrograde	3091 Jun 06 10:34	2°) 39'33		Ü			
min. Earth dist.	3091 Aug 22 06:48		18.85340 AU	conjunction	3098 Mar 17 02:06	26°) 37'34 -0	0°44'37
opposition	3091 Aug 23 03:15	0°) (40'48		minimum elong	3098 Mar 17 02:06	26°) 37'34 0	
оррозиюн	•	30°R≈	-0 -0 50	max. Earth dist.	3098 Mar 18 02:37	26°\(\frac{4}{4}\)1'05 2'	
t' .	3091 Sep 09 11:47						1.06223 AU
direct	3091 Nov 07 14:39	28°≈43'17		morning rise	3098 Apr 01 23:01	27° ∺ 31'49	
	3092 Jan 02 15:56	0° ∀			3098 May 25 21:51	0° Ƴ	
evening set	3092 Feb 06 05:59	1° ∺ 46′01		retrograde	3098 Jul 04 20:06	0° Ƴ 38'01	
					3098 Aug 14 17:54	30° Ŗ ₩	
conjunction	3092 Feb 21 21:31	2°) 40′16	-0°42'56	opposition	3098 Sep 20 21:15	28° ∺ 39'11 -0)°49'03
minimum elong	3092 Feb 21 21:31	2°) 40′16	0°42'56	min. Earth dist.	3098 Sep 19 22:11	28°) 41'29 19	9.07235 AU
max. Earth dist.	3092 Feb 22 19:34	2°) 43′29	20.87412 AU	direct	3098 Dec 05 18:47	26° ¥ 42'51	
morning rise	3092 Mar 08 14:40	3°) €34'46		evening set	3099 Mar 05 11:58	29°) 41′30	
retrograde	3092 Jun 09 19:13	6° ¥ 42'05		evening sec	3099 Mar 10 23:18	0°Υ	
•		4°) (43'18	0047157		3077 Ividi 10 23.10	0 1	
opposition	3092 Aug 26 14:15				2000 14 21 06 26	000005101	2044100
min. Earth dist.	3092 Aug 25 17:07		18.89456 AU	conjunction	3099 Mar 21 06:36	0° Υ 35'21 -0	
direct	3092 Nov 11 01:00	2°) 45′57		minimum elong	3099 Mar 21 06:36)°44'09
evening set	3093 Feb 09 11:07	5°) 47′51		max. Earth dist.	3099 Mar 22 05:58	0° Y 38'41 2	1.08052 AU
				morning rise	3099 Apr 06 04:28	1° Ƴ 29'38	
conjunction	3093 Feb 25 02:46	6°) 41′59	-0°43'45	retrograde	3099 Jul 09 04:30	4° Ƴ 35'49	
minimum elong	3093 Feb 25 02:46	6°) 41'59	0°43'45	min. Earth dist.	3099 Sep 24 07:00	2° Υ 39'14 19	9.08836 AU
max. Earth dist.	3093 Feb 26 00:22		20.91361 AU	opposition	3099 Sep 25 05:17	2° Y '37'00 -0	
morning rise	3093 Mar 12 20:37	7° ∺ 36'25	20.91301110	direct	3099 Dec 09 23:46	0° Υ '40'47	, 10 23
•		10° X 43'25				3° Υ 39'10	
retrograde	3093 Jun 14 03:52		10.02257.437	evening set	3100 Mar 09 15:53	3 1 39 10	
min. Earth dist.	3093 Aug 30 03:04		18.93257 AU				
opposition	3093 Aug 31 00:30	8°) 44'34	-0°48'44	conjunction	3100 Mar 25 11:23	4° Ƴ 33'03 -0	
direct	3093 Nov 15 08:22	6°) (47′22		minimum elong	3100 Mar 25 11:23	4° Ƴ 33'03 0)°43'29
evening set	3094 Feb 13 15:41	9°) 48′33		max. Earth dist.	3100 Mar 26 11:33	4° Ƴ 36'30 2	1.09402 AU
				morning rise	3100 Apr 10 09:55	5° Ƴ 27'22	
conjunction	3094 Mar 01 07:51	10°) 42'35	-0°44'22	retrograde	3100 Jul 13 12:41	8° Ƴ 33'35	
minimum elong	3094 Mar 01 07:51	10°) 42'35	0°44'22	opposition	3100 Sep 29 12:56	6° Ƴ 34'46 -0	0°47'33
max. Earth dist.	3094 Mar 02 07:06		20.94995 AU	min. Earth dist.	3100 Sep 28 14:40	6° Y 36'59 19	
	3094 Mar 17 02:04	10 X 4337	20.94993 AU		3100 Sep 28 14:40 3100 Dec 14 05:49	4° Υ 38'39	9.09917 AU
morning rise				direct			
retrograde	3094 Jun 18 11:43	14°) (43'39		evening set	3101 Mar 13 20:16	7° Ƴ 36'49	
opposition	3094 Sep 04 10:17	12°) 44′48					
min. Earth dist.	3094 Sep 03 12:04		18.96733 AU	conjunction	3101 Mar 29 16:19	8° Ƴ 30'44 -0	
direct	3094 Nov 19 17:20	10°) (47′46		minimum elong	3101 Mar 29 16:19	8° Ƴ 30'44 0)°42'36
evening set	3095 Feb 17 20:00	13° ¥ 48'17		max. Earth dist.	3101 Mar 30 14:46	8° Ƴ 33'56 2	1.10211 AU
				morning rise	3101 Apr 14 15:50	9° Ƴ 25'07	
conjunction	3095 Mar 05 12:24	14°) 42′15	-0°44'45	retrograde	3101 Jul 17 20:08	12° Ƴ 31′23	
minimum elong	3095 Mar 05 12:24	14°) (42'15		opposition	3101 Oct 03 20:21	10° Y 32'32 -0)°46'28
max. Earth dist.	3095 Mar 06 11:07		20.98317 AU	min. Earth dist.	3101 Oct 03 23:25	10° Y 34'37 19	
	3095 Mar 21 07:23	15°) (36'32	20.76317 AC	direct	3101 Dec 18 10:36	8° Υ 36'28	7.10 11 0 AC
morning rise				direct	3101 Dec 18 10.30	8 1 30 28	
retrograde	3095 Jun 22 20:23	18°) (43′04					
opposition	3095 Sep 08 19:44	16°) 44′11					
min. Earth dist.	3095 Sep 07 21:21	16° ¥ 46′25	18.99904 AU				
direct	3095 Nov 23 23:26	14°) (47′20					
evening set	3096 Feb 22 00:02	17° ¥ 47'16					
conjunction	3096 Mar 08 17:06	18° ∺ 41'10	-0°44'55				
minimum elong	3096 Mar 08 17:06	18°) 41′10	0°44'56				
max. Earth dist.	3096 Mar 09 17:19		21.01318 AU				
morning rise	3096 Mar 24 12:35	19°) ₹35′26					
retrograde	3096 Jun 26 03:54	22°) (41'48					
•			10.02720 411				
min. Earth dist.	3096 Sep 11 05:32		19.02730 AU				
opposition	3096 Sep 12 04:32	20°) 42′56	-0~49′38				
direct	3096 Nov 27 07:00	18°) (46′15					
evening set	3097 Feb 25 04:05	21°) (45'41					
conjunction	3007 Mar 12 21:32	220 X 30133	00/1/153				

conjunction

3097 Mar 12 21:32 22°**米**39'33 -0°44'53