: c :	11(01.0-+ 11.14-07	000 02145	4910122		11(02 C 12 01.40	1.49 • 2015.4	
inferior conj	11601 Oct 11 14:07	0°M03'45		evening set	11602 Sep 13 01:40	14° £ 30′54	
minimum elong	11601 Oct 11 04:08	0°M18'13	4°16'11	desc. node	11602 Sep 13 14:48	14° £ 24'16	2021120
i matri	11601 Oct 11 16:42	30° ₹ Ω	0.54506.444	inferior conj	11602 Sep 21 17:40	10° £ 23'34	
min. Earth dist.	11601 Oct 12 19:10	29° £ 21'38	0.54706 AU	minimum elong	11602 Sep 21 11:00	10° ♀ 34'24	
morning rise	11601 Oct 19 19:29	26° Ω 03'17		min. Earth dist.	11602 Sep 24 06:15	8° £ 45'31	0.55672 AU
direct	11601 Oct 24 03:23	25° Ω 22'57		morning rise	11602 Sep 29 17:53	5° 2 52′23	
	11601 Nov 04 08:17	0°M		direct	11602 Oct 04 21:48	4° £ 52'05	
morning max el	11601 Nov 06 11:11		23°31'47	morning max el	11602 Oct 18 21:58	11° ≏ 55'27	25°17'30
asc. node	11601 Nov 20 07:42	20°M31'02			11602 Nov 01 19:13	0° M ₊	
_	11601 Nov 25 10:08	0° ∡ 7		asc. node	11602 Nov 07 04:33	9° M 26'51	
morning set	11601 Nov 30 04:07	9° ∡ ¹47'21		morning set	11602 Nov 14 15:44	24° M .31'13	
		_			11602 Nov 17 04:21	0° ∡ ¹	
superior conj	11601 Dec 07 01:39	24° ₹ 43′20	1°38'21				
minimum elong	11601 Dec 07 02:13	24° ∡ ¹46′25	1°39'04	superior conj	11602 Nov 21 11:03	9° ∡ ¹26'34	1°38'27
	11601 Dec 09 12:45	್ರಂ		minimum elong	11602 Nov 21 10:30	9° ∡ ¹23'32	
max. Earth dist.	11601 Dec 09 20:09	0° る 39'16	1.33153 AU	max. Earth dist.	11602 Nov 22 23:27	12° ∡ ¹46'41	1.32074 AU
evening rise	11601 Dec 14 17:58	10° る 45'36		evening rise	11602 Nov 28 15:04	24° ₹ 750'45	
desc. node	11601 Dec 23 15:25	27° る 22'34			11602 Dec 01 04:04	0°ಕ	
	11601 Dec 25 04:02	0° ≈		desc. node	11602 Dec 10 12:24	17° る 11'44	
	11602 Jan 15 16:11	0° ∀			11602 Dec 18 17:27	0° ≈	
evening max el	11602 Jan 17 22:39	2° ∺ 16′52	27°23'21	evening max el	11602 Dec 31 09:20	15° ≈ 14'39	27°30'53
retrograde	11602 Jan 31 13:23	9° ∺ 41'34		retrograde	11603 Jan 14 05:25	22° ≈ 33'59	
evening set	11602 Feb 07 09:01	7°) 10′22		evening set	11603 Jan 21 04:55	20° ≈ 12'33	
min. Earth dist.	11602 Feb 11 05:09	3°) 41′26	0.64411 AU	min. Earth dist.	11603 Jan 24 22:38	17° ≈ 11'15	0.62489 AU
inferior conj	11602 Feb 13 16:44	1°) €02'38	-0°50'44	inferior conj	11603 Jan 27 20:08	14° ≈ 25'56	-2°03'57
minimum elong	11602 Feb 13 18:17	0° ∺ 58′29	0°49'40	minimum elong	11603 Jan 28 00:18	14° ≈ 15'59	2°01'41
	11602 Feb 14 16:26	30° R ≈		asc. node	11603 Feb 03 03:38	9° ≈ 36′21	
asc. node	11602 Feb 16 06:21	28° ≈ 25'54		morning rise	11603 Feb 03 22:10	9° ≈ 18′08	
morning rise	11602 Feb 20 05:27	25° ≈ 38'16		direct	11603 Feb 06 04:24	8° ≈ 54'46	
direct	11602 Feb 22 18:10	25° ≈ 05'30		morning max el	11603 Feb 12 21:20	12° ≈ 19'52	17°47'12
morning max el	11602 Mar 01 03:55	28° ≈ 25′06	17°51'49		11603 Feb 24 21:25	0° ∀	
	11602 Mar 02 15:35	0°) €		morning set	11603 Feb 28 19:37	6° ¥ 53'16	
morning set	11602 Mar 18 06:27	24°) €05'04		desc. node	11603 Mar 08 13:02	20° ¥ 21′50	
desc. node	11602 Mar 21 16:25	29°) 48′07					
	11602 Mar 21 19:16	0° Y		superior conj	11603 Mar 12 10:53	26° ¥ 59'31	-0°29'34
				minimum elong	11603 Mar 12 07:58	26° ¥ 47'17	0°29'01
superior conj	11602 Mar 31 18:36	16° Ƴ 19'16	-1°11'17		11603 Mar 14 06:13	0° Y	
minimum elong	11602 Mar 31 11:03	15° Ƴ 48'58	1°10'28	max. Earth dist.	11603 Mar 19 05:13	8° Ƴ 05'48	1.43968 AU
max. Earth dist.	11600 4 05 10 00	23° Y ′50′23	1 45170 ATT	arramina riaa			
	11602 Apr 05 12:03	23 30 23	1.45179 AU	evening rise	11603 Mar 27 04:30	20° Ƴ 39'56	
	11602 Apr 05 12:03 11602 Apr 09 10:22	0° 8	1.451/9 AU	evening rise	11603 Mar 27 04:30 11603 Apr 02 07:21	20° Y 39'56 0° と	
evening rise	1		1.451/9 AU	evening rise			
evening rise	11602 Apr 09 10:22	9° 8	1.451/9 AU	evening rise	11603 Apr 02 07:21	0°B 8°0	21°13'52
evening rise greatest brilliancy	11602 Apr 09 10:22 11602 Apr 16 15:30	0° と 11° と 08'42	-0.6m	Ç	11603 Apr 02 07:21 11603 Apr 23 20:17	0°B 8°0	21°13'52
C	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10	0°႘ 11°႘08'42 0°Д		evening max el	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33	0° В 0° П 3° П 03'18	21°13'52
greatest brilliancy	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47	0°8 11°808'42 0°Ⅲ 3°Ⅲ45'39	-0.6m	evening max el asc. node	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58	0° В 0°П 3°П03'18 7°П16'38	21°13'52
greatest brilliancy evening max el	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01	0° 8 11° 8 08'42 0°П 3°П45'39 19°П17'47	-0.6m	evening max el asc. node retrograde	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16	0°8 0°用 3°用03'18 7°用16'38 8°用08'45	21°13'52 3°05'27
greatest brilliancy evening max el asc. node	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45	0° 8 11° 8 08'42 0° П 3° П 45'39 19° П 17'47 20° П 40'00	-0.6m	evening max el asc. node retrograde evening set	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58	0° В 0° П 3° П 03'18 7° П 16'38 8° П 08'45 6° П 24'52	
greatest brilliancy evening max el asc. node retrograde	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41	0° 8 11° 8 08'42 0° П 3° П 45'39 19° П 17'47 20° П 40'00 23° П 42'44	-0.6m	evening max el asc. node retrograde evening set inferior conj	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24	0°Н 0°П 3°П03'18 7°П16'38 8°П08'45 6°П24'52 0°П11'38	3°05'27
greatest brilliancy evening max el asc. node retrograde evening set	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14	0° 8 11° 8 08'42 0° П 3° П 45'39 19° П 17'47 20° П 40'00 23° П 42'44 22° П 14'54	-0.6m 20°05'31	evening max el asc. node retrograde evening set inferior conj	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08	0°Н 0°П 3°П03'18 7°П16'38 8°П08'45 6°П24'52 0°П11'38 0°П16'03	3°05'27
greatest brilliancy evening max el asc. node retrograde evening set inferior conj	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36	0° 8 11° 8 08'42 0° П 3° П 45'39 19° П 17'47 20° П 40'00 23° П 42'44 22° П 14'54 16° П 13'21	-0.6m 20°05'31 3°15'06	evening max el asc. node retrograde evening set inferior conj minimum elong	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45	0°8 0°П 3°П03'18 7°П16'38 8°П08'45 6°П24'52 0°П11'38 0°П16'03 30°R8	3°05'27 3°04'41
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15	0° 8 11° 8 08'42 0° П 3° П 45'39 19° П 17'47 20° П 40'00 23° П 42'44 22° П 14'54 16° П 13'21 16° П 14'32	-0.6m 20°05'31 3°15'06 3°14'23	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24	0°8 0°П 3°П03'18 7°П16'38 8°П08'45 6°П24'52 0°П11'38 0°П16'03 30°R8 29°843'51	3°05'27 3°04'41
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11	0°8 11°808'42 0°Ш 3°П45'39 19°П17'47 20°П40'00 23°П42'44 22°П14'54 16°П13'21 16°П14'32 15°П00'07	-0.6m 20°05'31 3°15'06 3°14'23	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05	0°₩ 0°Ш 3°Ш03'18 7°Ш16'38 8°Ш08'45 6°Ш24'52 0°Ш11'38 0°Ш16'03 30°R₩ 29°₩43'51 23°₩55'551	3°05'27 3°04'41 0.68521 AU
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56	0°8 11°808'42 0°Ш 3°Ш45'39 19°Ш17'47 20°Ш40'00 23°Ш42'44 22°Ш14'54 16°Ш13'21 16°Ш14'32 15°Ш00'07 9°Ш53'08	-0.6m 20°05'31 3°15'06 3°14'23	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37	0°8 0°П 3°П03'18 7°П16'38 8°П08'45 6°П24'52 0°П11'38 0°П16'03 30°R8 29°843'51 23°855'551 21°839'38	3°05'27 3°04'41 0.68521 AU
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16	0°8 11°808'42 0°Ш 3°Ш45'39 19°Ш17'47 20°Ш40'00 23°Ш42'44 22°Ш14'54 16°Ш13'21 16°Ш14'32 15°Ш00'07 9°Ш53'08 7°Ш20'46	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09	0°8 0°11 3°1103'18 7°1116'38 8°1108'45 6°1124'52 0°111'38 0°1116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57	3°05'27 3°04'41 0.68521 AU
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 31 12:11 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11	0°8 11°808'42 0°Ш 3°Ш45'39 19°Ш17'47 20°Ш40'00 23°Ш42'44 22°Ш14'54 16°Ш13'21 16°Ш14'32 15°Ш00'07 9°Щ53'08 7°Ш20'46 10°Ш18'28	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°1116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29	3°05'27 3°04'41 0.68521 AU
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04	0°8 11°808'42 0°Ш 3°Ш45'39 19°Ш17'47 20°Ш40'00 23°Ш42'44 22°Ш14'54 16°Ш13'21 16°Ш14'32 15°Ш00'07 9°Ш53'08 7°Ш20'46 10°Ш18'28 14°Ш18'56	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 25 06:37 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 06 16:40	0°8 0°1 3°1103'18 7°116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°11	3°05'27 3°04'41 0.68521 AU
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:15 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 04 23:49	0°8 11°808'42 0°Ш 3°Ш45'39 19°Ш17'47 20°Ш40'00 23°Ш42'44 22°Ш14'54 16°Ш13'21 16°Ш14'32 15°Ш00'07 9°Ш53'08 7°Ш20'46 10°Ш18'28 14°Ш18'56 0°\$	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 25 06:24 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 28 15:25	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°11 0°©	3°05'27 3°04'41 0.68521 AU
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 04 23:49 11602 Jul 24 10:44	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 28 15:25 11603 Jul 09 07:45	0°8 0°11 3°1103'18 7°1116'38 8°1108'45 6°1124'52 0°111'38 0°1116'03 30°88 29°843'51 21°839'38 27°848'57 27°846'29 0°11 0°55 17°5505'37	3°05'27 3°04'41 0.68521 AU 23°13'29
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 04 23:49 11602 Jul 24 10:44 11602 Jul 28 00:41	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 15:09 11603 Jun 06 16:40 11603 Jun 28 15:25 11603 Jul 09 07:45 11603 Jul 13 12:07	0°8 0°11 3°1103'18 7°1116'38 8°1108'45 6°1124'52 0°111'38 0°1116'03 30°88 29°843'51 21°839'38 27°848'57 27°846'29 0°11 0°55 17°5505'37 24°5512'13	3°05'27 3°04'41 0.68521 AU 23°13'29
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 04 23:49 11602 Jul 24 10:44 11602 Jul 28 00:41	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 15:09 11603 Jun 06 16:40 11603 Jun 28 15:25 11603 Jul 09 07:45 11603 Jul 13 12:07	0°8 0°11 3°1103'18 7°1116'38 8°1108'45 6°1124'52 0°111'38 0°1116'03 30°88 29°843'51 21°839'38 27°848'57 27°846'29 0°11 0°55 17°5505'37 24°5512'13	3°05'27 3°04'41 0.68521 AU 23°13'29
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 28 00:41 11602 Jul 31 14:40	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 04 14:10 11603 Jun 08 16:40 11603 Jun 09 07:45 11603 Jul 13 12:07 11603 Jul 16 19:22	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°11 0°50 17°505'37 24°512'13 0°Ω 7°Ω59'10	3°05'27 3°04'41 0.68521 AU 23°13'29
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 28 00:41 11602 Jul 31 14:40 11602 Aug 07 10:30	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 15:09 11603 Jun 06 16:40 11603 Jun 28 15:25 11603 Jul 13 12:07 11603 Jul 16 19:22	0°8 0°Π 3°Π03'18 7°Π16'38 8°Π08'45 6°Π24'52 0°Π11'38 0°Π16'03 30°R8 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°Π 0°© 17°©05'37 24°©12'13 0°Ω	3°05'27 3°04'41 0.68521 AU 23°13'29 1.39592 AU -1°08'42
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 24 10:44 11602 Jul 31 14:40 11602 Aug 07 10:30 11602 Aug 07 10:30 11602 Aug 07 10:30	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 08 15:25 11603 Jul 10 9 07:45 11603 Jul 10 19:22 11603 Jul 21 05:03 11603 Jul 21 05:03 11603 Jul 21 05:03	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°11 0°5 17°505'37 24°512'13 0°Ω 7°Ω59'10 8°Ω21'23	3°05'27 3°04'41 0.68521 AU 23°13'29 1.39592 AU -1°08'42
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 28 00:41 11602 Jul 31 14:40 11602 Aug 07 10:30 11602 Aug 07 10:30 11602 Aug 07 17:40	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 28 15:25 11603 Jul 09 07:45 11603 Jul 13 12:07 11603 Jul 16 19:22 11603 Jul 21 05:03 11603 Jul 21 05:03 11603 Jul 21 09:51 11603 Jul 29 00:10	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°11 0°\$ 17°\$05'37 24°\$12'13 0°\$ 7°\$\Oxedot{\Oxedot	3°05'27 3°04'41 0.68521 AU 23°13'29 1.39592 AU -1°08'42
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 28 00:41 11602 Jul 31 14:40 11602 Aug 07 10:30 11602 Aug 07 12:48 11602 Aug 09 17:40 11602 Aug 09 17:40 11602 Aug 09 17:40 11602 Aug 09 17:40	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 08 15:25 11603 Jul 13 12:07 11603 Jul 13 12:07 11603 Jul 21 05:03 11603 Jul 21 05:03 11603 Jul 21 09:51 11603 Jul 29 00:10 11603 Jul 30 17:23	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°846'29 0°11 0°5 17°505'37 24°512'13 0°1 8°12'123 22°145'04 26°103'28	3°05'27 3°04'41 0.68521 AU 23°13'29 1.39592 AU -1°08'42
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 28 00:41 11602 Jul 28 00:41 11602 Jul 31 14:40 11602 Aug 07 10:30 11602 Aug 07 12:48 11602 Aug 09 17:40 11602 Aug 11 03:24 11602 Aug 15 21:51	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 09 07:45 11603 Jul 13 12:07 11603 Jul 13 12:07 11603 Jul 21 05:03 11603 Jul 21 05:03 11603 Jul 21 09:51 11603 Jul 29 00:10 11603 Jul 30 17:23 11603 Aug 01 18:45	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°848'57 27°846'29 0°11 0°5 17°505'37 24°512'13 0°Ω 7°Ω59'10 8°Ω21'23 22°Ω45'04 26°Ω03'28 0°10	3°05'27 3°04'41 0.68521 AU 23°13'29 1.39592 AU -1°08'42 1°08'36
greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	11602 Apr 09 10:22 11602 Apr 16 15:30 11602 Apr 29 03:10 11602 May 01 16:47 11602 May 13 17:01 11602 May 15 03:45 11602 May 21 09:41 11602 May 25 07:14 11602 May 30 14:36 11602 May 30 14:15 11602 May 31 12:11 11602 Jun 04 20:56 11602 Jun 10 14:16 11602 Jun 17 17:11 11602 Jun 22 05:04 11602 Jul 24 10:44 11602 Jul 24 10:44 11602 Jul 31 14:40 11602 Aug 07 10:30 11602 Aug 07 12:48 11602 Aug 07 12:48 11602 Aug 11 03:24 11602 Aug 15 21:51 11602 Aug 15 50:50	0°8 11°808'42 0°	-0.6m 20°05'31 3°15'06 3°14'23 0.67827 AU 24°42'57 1.37284 AU -0°34'47 0°34'50	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	11603 Apr 02 07:21 11603 Apr 23 20:17 11603 Apr 26 15:33 11603 May 02 00:58 11603 May 05 08:16 11603 May 09 15:58 11603 May 14 22:24 11603 May 14 21:08 11603 May 15 01:45 11603 May 15 06:24 11603 May 20 02:05 11603 May 25 06:37 11603 Jun 04 15:09 11603 Jun 04 14:10 11603 Jun 06 16:40 11603 Jun 28 15:25 11603 Jul 13 12:07 11603 Jul 13 12:07 11603 Jul 16 19:22 11603 Jul 21 05:03 11603 Jul 21 09:51 11603 Jul 29 00:10 11603 Jul 30 17:23 11603 Aug 01 18:45 11603 Aug 15 19:06	0°8 0°11 3°1103'18 7°1116'38 8°108'45 6°1124'52 0°111'38 0°116'03 30°88 29°843'51 23°855'51 21°839'38 27°846'29 0°11 0°5 17°505'37 24°512'13 0°0 7°059'10 8°021'23 22°045'04 26°003'28 0°10	3°05'27 3°04'41 0.68521 AU 23°13'29 1.39592 AU -1°08'42 1°08'36

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evening max el	11605 Jul 12 17:22		18°03'57	retrograde	11606 Jul 02 16:05	4° Ω 45'24	
retrograde	11605 Jul 19 05:05	21° Ω 16'27		evening set	11606 Jul 05 15:06	3° Ω 58′03	
evening set	11605 Jul 21 19:55	20° Ω 42'57			11606 Jul 10 07:06	30° ₹ 5	
inferior conj	11605 Jul 28 06:58	15° Ω 36′26	1°56'52	inferior conj	11606 Jul 11 13:50	28° © 34'07	2°40'53
minimum elong	11605 Jul 28 09:37	15° Ω 29'40	1°55'30	minimum elong	11606 Jul 11 16:11	28° © 27'26	2°39'42
min. Earth dist.	11605 Jul 31 07:05	12° Ω 34'13	0.61816 AU	min. Earth dist.	11606 Jul 14 01:08	25°5946'06	0.63960 AU
morning rise	11605 Aug 03 20:56	9° £ 32′05		morning rise	11606 Jul 17 15:48	22° © 17'29	
desc. node	11605 Aug 04 06:56	9° Ω 15′06		desc. node	11606 Jul 22 04:12	19° © 56'08	
direct	11605 Aug 10 13:08	7° Ω 11'34		direct	11606 Jul 24 07:36	19° © 40'28	
morning max el	11605 Aug 24 17:35	15° Ω 12'57	27°57'30	morning max el	11606 Aug 07 02:52		27°37'29
morning max ci	11605 Sep 05 18:39	0° m)	21 3137	morning max ci	11606 Aug 09 07:17	0°Ω	21 312)
	•	0∘ ت المال			•		
	11605 Sep 23 14:17				11606 Aug 30 12:30	0° m)	
morning set	11605 Sep 27 09:20	7° ≏ 34'46		morning set	11606 Sep 11 02:38	21° m) 14'57	
asc. node	11605 Sep 27 18:50	8° ഫ 23'37		asc. node	11606 Sep 14 15:32	28° m 25'37	
max. Earth dist.	11605 Oct 02 22:44	19° ≙ 21'51	1.31781 AU		11606 Sep 15 09:41	0∘ ऌ	
				max. Earth dist.	11606 Sep 15 22:22	1° ≏ 06′24	1.32701 AU
superior conj	11605 Oct 04 19:57	23° ₽ 29'31	1°04'22				
minimum elong	11605 Oct 04 17:43	23° ₽ 17'11	1°04'14	superior conj	11606 Sep 19 02:11	7° - 49'45	0°42'19
8	11605 Oct 07 18:43	0° M ,		minimum elong	11606 Sep 19 00:19	7° £ 39'45	0°42'00
evening rise	11605 Oct 11 14:03	8°ML19'12		evening rise	11606 Sep 26 01:25	22° £ 54'22	0 42 00
evening rise				evening rise	-		
	11605 Oct 22 15:54	0° ∡ ¹			11606 Sep 29 10:44	0°M	
desc. node	11605 Oct 31 03:56	12° × 747'11		desc. node	11606 Oct 18 01:14	29°M06'09	
evening max el	11605 Nov 06 02:40	19° ∡ ′28′21	24°37'50	evening max el	11606 Oct 18 13:12	29°M35'42	22°57'13
retrograde	11605 Nov 19 21:09	26° ∡ ¹22'02			11606 Oct 18 23:21	0° ∡ ¹	
evening set	11605 Nov 25 05:35	25° ∡ 18′22		retrograde	11606 Oct 31 18:22	6° ₮ 10'01	
min. Earth dist.	11605 Nov 30 14:13	22° ∡ ³30′54	0.56395 AU	evening set	11606 Nov 04 17:08	5° х 36′07	
inferior conj	11605 Dec 03 02:26	20° ₹ 55'32	-5°33'19	min. Earth dist.	11606 Nov 11 22:10	2° ҂ 18'25	0.55080 AU
minimum elong	11605 Dec 03 08:12	20° × ⁷ 46'22		inferior conj	11606 Nov 13 05:55	1° × 732'54	
morning rise	11605 Dec 11 12:59	16° × 51'31	3 31 30	minimum elong	11606 Nov 13 04:06	1°×735'30	
•				minimum clong			3 40 20
direct	11605 Dec 13 23:36	16° ∡ ³35'15			11606 Nov 16 00:27	30°RM₁	
morning max el	11605 Dec 23 16:52	21° ∡ 14′28	19°31'53	morning rise	11606 Nov 21 16:39	27°M43'33	
asc. node	11605 Dec 24 19:11	22° × 21'03		direct	11606 Nov 24 18:10	27°M21'36	
	11605 Dec 30 14:07	0°₹			11606 Dec 02 16:17	0° ∡ ¹	
morning set	11606 Jan 09 23:40	19° る 08'39		morning max el	11606 Dec 06 00:24	2° ҂ ¹42′05	20°51'01
_	11606 Jan 15 09:04	0° ≈		asc. node	11606 Dec 11 16:12	9° х 19′33	
					11606 Dec 23 10:41	0°ಕ	
superior conj	11606 Jan 17 23:30	5° ≈ 09'17	1°07'40	morning set	11606 Dec 25 07:39	3° る 50'39	
minimum elong	11606 Jan 18 02:26	5°≈23'39	1°07'56	morning set	11000 Dec 25 07.57	3 03037	
_					11/07 1 01 17 12	100-712121	1025100
max. Earth dist.	11606 Jan 24 08:19	17°≈15'51	1.37858 AU	superior conj	11607 Jan 01 17:12	19°る13'31	
desc. node	11606 Jan 27 03:05	22° ≈ 17'53		minimum elong	11607 Jan 01 19:30	19° ට 25'19	
evening rise	11606 Jan 28 01:45	23° ≈ 58′11		max. Earth dist.	11607 Jan 06 17:04	29° る 13'57	1.35769 AU
	11606 Jan 31 13:32	0° ℋ			11607 Jan 07 02:32	0° ≈	
	11606 Feb 20 08:00	0 ° Υ		evening rise	11607 Jan 10 16:01	6° ≈ 45'54	
evening max el	11606 Mar 04 13:02	14° Ƴ 29'07	25°09'15	desc. node	11607 Jan 13 23:55	12° ≈ 48'55	
retrograde	11606 Mar 16 13:28	21° Y 27'31			11607 Jan 24 07:58	0° ∀	
evening set	11606 Mar 22 07:40	19° Ƴ 03'55		evening max el	11607 Feb 15 02:41	28° 升 18'14	26°16'20
asc. node	11606 Mar 22 16:57	18° Υ 43'36		evening max er	11607 Feb 16 22:27	0°Υ	20 10 20
		14° Υ 08'45	0.67887 AU	4 1 -		5° Υ 34'33	
min. Earth dist.	11606 Mar 26 17:50			retrograde	11607 Feb 27 22:22		
inferior conj	11606 Mar 27 22:56	12° Y ′33'40	1°36'06	evening set	11607 Mar 06 04:00	3° Y ′03'42	
minimum elong	11606 Mar 27 20:58	12° Y 40′05	1°35'20		11607 Mar 09 05:52	30° ₹ ₩	
morning rise	11606 Apr 02 10:37	6° Ƴ 38'40		asc. node	11607 Mar 09 14:16	29°) 35′43	
direct	11606 Apr 06 00:37	5° Ƴ 24'51		min. Earth dist.	11607 Mar 10 07:56	28°) 43′16	0.66835 AU
morning max el	11606 Apr 13 03:06	9° Ƴ 19'34	19°23'04	inferior conj	11607 Mar 12 01:02	26°) 37′18	0°46'49
desc. node	11606 Apr 25 04:36	25° Ƴ 01'16		minimum elong	11607 Mar 11 23:53	26°) 40′52	0°46'29
greatest brilliancy	11606 Apr 25 21:04	26° Y ′02'00	-0.7m	morning rise	11607 Mar 17 20:34	20°) 52′20	
groutest ormane,	11606 Apr 28 12:50	0°8	0.7111	direct	11607 Mar 20 23:38	19° ¥ 56'58	
morning got	-						10024120
morning set	11606 May 07 19:46	14° 8 10'23		morning max el	11607 Mar 27 13:22	23° ¥ 28'27 0° Ƴ	18°34'20
	11606 May 18 00:23	0°II			11607 Apr 01 23:57		
max. Earth dist.	11606 May 20 11:10	3° Ⅱ 50'57	1.45040 AU	desc. node	11607 Apr 12 01:18	15° Y 03'30	
				morning set	11607 Apr 17 12:39	23° Y 39'02	
superior conj	11606 May 24 05:54	9° Ⅱ 50′16	-2°13'19		11607 Apr 21 13:36	9° 8	
minimum elong	11606 May 24 05:50	9° Ⅱ 49'59	2°14'00	max. Earth dist.	11607 May 03 05:45	18° 8 16'12	1.45684 AU
-	11606 Jun 05 15:45	0ಂಣ					
evening rise	11606 Jun 07 11:23	3°900'55		superior conj	11607 May 03 14:41	18° 8 51'06	-2°02'46
•					•	18° 8 22'30	
asc node	11606 liin 1x 14.55	/1.5014.10		minim einno	TIDO/ WISV US U/://		2°02'51
asc. node	11606 Jun 18 14:55	21°9514'19		minimum elong	11607 May 03 07:22		2*02*51
asc. node evening max el	11606 Jun 18 14:55 11606 Jun 25 00:10 11606 Jun 26 07:17	0°Ω 1°Ω22'40	18°15'56	evening rise	11607 May 10 17:24 11607 May 19 05:37	0°П 13°П27'05	2°02'51

greatest brilliancy	11607 May 27 12:40	26° Ⅱ 36'16	-0.8m		11608 Apr 13 06:19	0° ႘	
· ·	11607 May 29 16:56	0ಂತ		max. Earth dist.	11608 Apr 15 02:07	2° 8 51'56	1.45574 AU
asc. node	11607 Jun 05 11:57	9° © 55'52		evening rise	11608 Apr 28 02:49	23° 8 06'08	
evening max el	11607 Jun 09 18:59	15° © 00'40	18°45'37		11608 May 02 14:20	$\Pi^{\circ}0$	
retrograde	11607 Jun 16 09:53	18°538'14		greatest brilliancy	11608 May 11 08:19	13° Ⅱ 16′05	-0.7m
evening set	11607 Jun 19 17:16	17° © 35'30		asc. node	11608 May 22 09:04	27° Ⅱ 59'22	
inferior conj	11607 Jun 25 07:28	11° © 55'39	3°05'54	evening max el	11608 May 23 02:17	28° Ⅱ 43'59	19°31'58
minimum elong	11607 Jun 25 08:51	11° © 51'19	3°05'00		11608 May 24 10:33	0 \circ \odot	
min. Earth dist.	11607 Jun 27 03:57	9° © 37'45	0.65794 AU	retrograde	11608 May 30 07:30	2°9548'47	
morning rise	11607 Jun 30 23:40	5° © 34'07		evening set	11608 Jun 02 23:41	1° © 30'03	
direct	11607 Jul 07 09:28	2°951'25			11608 Jun 04 17:15	30°RⅡ	
desc. node	11607 Jul 09 01:24	3°501'08		inferior conj	11608 Jun 08 08:40	25° Ⅱ 35'44	3°15'29
morning max el	11607 Jul 20 13:36	10° © 39'53	26°46'02	minimum elong	11608 Jun 08 08:56	25° Ⅱ 34'51	3°14'45
	11607 Aug 04 21:01	0° N		min. Earth dist.	11608 Jun 09 14:20	23° I 57'39	0.67213 AU
	11607 Aug 23 01:11	0° Mp		morning rise	11608 Jun 13 17:48	19° Ⅱ 14'06	
morning set	11607 Aug 25 09:00	4° M) 21'52	1 24127 ATT	direct	11608 Jun 19 17:45	16° Ⅱ 35'46	
max. Earth dist.	11607 Aug 29 12:31	12° Mp 27'11	1.34137 AU	desc. node	11608 Jun 24 22:31	18° Ⅱ 10'51	25021150
asc. node	11607 Sep 01 12:13	18° m 30'53		morning max el	11608 Jul 02 00:09 11608 Jul 07 09:58	23° Ⅱ 56'39 0° ©	25°31'59
aumariar aani	11607 San 02 02:21	21° m 48'29	0°15'24		11608 Jul 07 09:38 11608 Jul 28 06:28	0° U	
superior conj minimum elong	11607 Sep 03 02:21 11607 Sep 03 01:33	21° Mp 44'18	0°15'03	morning set	11608 Jul 28 06.28 11608 Aug 07 00:45	0 δι 16° Ω 46'46	
behind sun begin	11607 Sep 03 01:33 11607 Sep 02 23:31	21° Mp 33'41	0 13 03	max. Earth dist.	11608 Aug 10 16:43	23° Ω 33'30	1.36036 AU
behind sun begin	11607 Sep 02 23:31 11607 Sep 03 03:35	21° m) 54'56		max. Earth dist.	11608 Aug 10 10:43	0° m)	1.30030 AU
bennia sun ena	11607 Sep 05 03:33 11607 Sep 06 23:40	0° ⊽			11000 Aug 14 01.13	עוו ט	
evening rise	11607 Sep 00 23:40 11607 Sep 10 11:23	o — 7° ⊆ 22'32		superior conj	11608 Aug 16 17:48	5° m) 19'15	-0°15'38
evening rise	11607 Sep 10 11:25 11607 Sep 22 12:24	0°ML		minimum elong	11608 Aug 16 17:40	5° m ₂ 24'09	0°15'49
evening max el	11607 Sep 22 12:24 11607 Sep 30 05:11	9° M .49'50	21°20'36	behind sun begin	11608 Aug 16 17:33	5° m) 18'01	0 15 47
desc. node	11607 Oct 04 22:36	13°ML36'27	21 20 30	behind sun end	11608 Aug 16 20:00	5° m) 30'17	
retrograde	11607 Oct 12 06:23	15°ML49'05		asc. node	11608 Aug 18 08:56	8° mp 36'08	
evening set	11607 Oct 14 21:33	15°MJ33'05		evening rise	11608 Aug 24 17:51	21° mp 38'20	
inferior conj	11607 Oct 23 22:20	11°ML38'04	-5°07'42	<i>8</i>	11608 Aug 28 22:04	0∘ ⊽	
minimum elong	11607 Oct 23 13:21	11°ML50'40	5°05'25	evening max el	11608 Sep 11 09:48	20° ≏ 41'24	20°00'19
min. Earth dist.	11607 Oct 24 04:50	11°ML28'57	0.54576 AU	desc. node	11608 Sep 20 19:58	25° ≏ 50'12	
morning rise	11607 Nov 01 05:55	7°ML48'14		retrograde	11608 Sep 21 20:23	25° ≏ 53'03	
direct	11607 Nov 05 02:35	7°ML16'07		evening set	11608 Sep 23 18:46	25° ≏ 43'10	
morning max el	11607 Nov 17 18:46	13°M19'36	22°29'52	inferior conj	11608 Oct 02 17:51	21° ≙ 43'19	-3°35'50
asc. node	11607 Nov 28 13:09	27°ML13'41		minimum elong	11608 Oct 02 08:42	21° ≏ 57′08	3°32'33
	11607 Nov 30 04:53	0° ∡ ¹		min. Earth dist.	11608 Oct 04 13:37	20° ≏ 37'17	0.55010 AU
morning set	11607 Dec 09 18:30	18° ∡ ³37'36		morning rise	11608 Oct 10 21:24	17° £ 31'36	
	11607 Dec 15 02:02	0°ಕ		direct	11608 Oct 15 13:43	16° ≏ 43'56	
				morning max el	11608 Oct 29 06:04	23° ≏ 27'34	24°17'55
superior conj	11607 Dec 16 19:05		1°35'27		11608 Nov 04 03:20	0° M ₊	
minimum elong	11607 Dec 16 20:19	3° る 45'43	1°36'08	asc. node	11608 Nov 14 10:02	15°M50'07	
max. Earth dist.	11607 Dec 20 08:38	11° ろ 07'21	1.33993 AU		11608 Nov 21 15:45	0° ∡ 7	
evening rise	11607 Dec 24 20:52	20°る10'10		morning set	11608 Nov 23 06:20	3° ∡ ¹24'13	
	11607 Dec 30 02:32	0° ≈					
desc. node	11607 Dec 31 20:47	3°≈08'27		superior conj	11608 Nov 30 02:25	18° ∡ 18'10	1°39'08
avanina may al	11608 Jan 18 07:42 11608 Jan 28 16:16	0°) {	27905142	minimum elong	11608 Nov 30 02:30	18° ∡ 18'38	1°39'51
evening max el	11608 Jan 28 16:16 11608 Feb 11 01:17	11° ¥ 56'21 19° ¥ 20'02	27°05'42	max. Earth dist.	11608 Dec 02 07:55	23°♂08'14 0°♂	1.32636 AU
retrograde evening set	11608 Feb 17 16:49	19 X 20 02 16° X 46'57		evening rise	11608 Dec 05 13:41 11608 Dec 07 12:54	0 3 4° 3 02'34	
min. Earth dist.	11608 Feb 17 16:49 11608 Feb 21 15:28	13° X 40'37	0.65398 AU	desc. node	11608 Dec 07 12:34 11608 Dec 17 17:44	4 302 34 23° る 10'53	
inferior conj	11608 Feb 23 20:30	10° H 30'43		desc. Hode	11608 Dec 17 17:44 11608 Dec 21 20:11	23 ℃ 10 33	
minimum elong	11608 Feb 23 20:51	10° X 29'44	0°11'53	evening max el	11609 Jan 10 04:22		27°30'16
transit middle	11608 Feb 23 20:51	10°)(29'44	0°11'53	evening max er	11609 Jan 16 04:22	0° \	27 30 10
transit begin	11608 Feb 23 18:50	10°) ₹35'26	0 1133	retrograde	11609 Jan 23 21:39	2°) 35′02	
transit end	11608 Feb 23 22:51	10°) € 24'03		evening set	11609 Jan 30 19:46	0°) €06'37	
asc. node	11608 Feb 24 11:35	9° \(\) 48'20			11609 Jan 30 23:27	30°R≈	
morning rise	11608 Mar 01 02:19	4°) 58'11		min. Earth dist.	11609 Feb 03 14:25	26°≈50'29	0.63627 AU
direct	11608 Mar 03 19:52	4°) 18′08		inferior conj	11609 Feb 06 06:38	24° ≈ 07'11	
morning max el	11608 Mar 10 04:44	7°) €38'37	18°02'27	minimum elong	11609 Feb 06 09:14	24° ≈ 00'33	1°19'20
-	11608 Mar 25 15:11	$0^{\circ}\mathbf{\Upsilon}$		asc. node	11609 Feb 10 08:54	20° ≈ 21'55	
morning set	11608 Mar 28 09:55	4° Ƴ 32'51		morning rise	11609 Feb 13 00:54	18° ≈ 49'48	
desc. node	11608 Mar 28 21:57	5° Ƴ 22'03		direct	11609 Feb 15 10:36	18° ≈ 21'30	
				morning max el	11609 Feb 21 22:23	21° ≈ 41'58	17°47'42
superior conj	11608 Apr 12 00:08	28° Y ′01′04			11609 Feb 28 08:33	0° ∀	
minimum elong	11608 Apr 11 14:54	27° Y 24'38	1°32'52	morning set	11609 Mar 10 10:13	16°) 44′31	

Septical color 1600 Mar 28 02.75 579/074 0-751/0	desc. node	11609 Mar 15 18:35 11609 Mar 18 05:45	25°) 51'30 0° Υ		desc. node	11610 Mar 02 15:13	16°) 28′12	
munimoding minimoding					superior conj	11610 Mar 04 05:47	19°) 14′09	-0°12'21
1600 Apr 18 29 09	superior conj	11609 Mar 23 02:43	8° Ƴ 02'45	-0°53'40	minimum elong	11610 Mar 04 04:40	19° ₩ 09'21	0°11'57
1609 Apr 0.1 1609 Apr 0.2 133	minimum elong	11609 Mar 22 21:05	7° Ƴ 39'43	0°52'55	behind sun begin	11610 Mar 03 22:57	18°) 44′51	
Continger	max. Earth dist.	11609 Mar 28 20:50	17° Ƴ 18'19	1.44736 AU	behind sun end	11610 Mar 04 10:23	19°) 33′48	
1609 May 60 0615 1571158 1600 May 60 0615 1571158 1600 May 10 0616 1571158 1600 May 10 1000 May 12 1002 1771156 1600 May 10 1003 1711548 1711546 1600 May 12 1003 1711544 1711548 1711549 1600 May 12 1003 May 12 1003 1711544 1711548 1711549 1600 May 12 1003 May 12 1003 1711544 1711548 1711549 1711549 1600 May 12 1003 1711544 1711549 1711549 1600 May 12 1003 1711544 1711549 1		11609 Apr 05 23:38	9° 8			11610 Mar 10 16:03	$0^{\circ}\mathbf{\Upsilon}$	
Control 1600 May 060 15 1718 1718 1610 161	evening rise	11609 Apr 07 14:13	2° 8 28'21		max. Earth dist.	11610 Mar 11 11:55	1° Y 21'08	1.43272 AU
1600 May 10 00 160		11609 Apr 26 04:02	$\Pi^{\circ}0$		evening rise	11610 Mar 18 07:36	12° Υ 13'55	
Integrate 1.600 May 14 0.622 7°H 10°A sex node 1610 Apr 21 1108 0°H 1600 May 18 14°A 0°H 128°A 31°20 sex node 1610 Apr 26 0.632 1°H 138′A	evening max el	11609 May 06 03:56	12° Ⅲ 28'35	20°33'10		11610 Mar 30 01:02	9° 8	
	asc. node	11609 May 09 06:16	15° Ⅱ 11'58		evening max el	11610 Apr 19 00:10	26° 8 14'26	21°45'55
inferioncoing immismand collaborary 1160 May 2 1 14-35 by 9TLS748 <	retrograde	11609 May 14 06:22	17° Ⅱ 10′36		-	11610 Apr 23 11:08	$\Pi^{\circ}0$	
minimeding	evening set	11609 May 18 08:06	15° Ⅱ 35'50		asc. node	11610 Apr 26 03:32	1° Ⅱ 18'47	
minimeding	inferior conj	11609 May 23 14:45	9° Ⅱ 28'48	3°12'20	retrograde	11610 Apr 28 04:33	1° Ⅱ 38'46	
min. Earth dist 11000 May 2 10 62-14 8°T 14'S 0.88175 AU evening set 11610 May 0 21-64 29°C487S 25°C10 micror on micror on 1610 May 0 21-52 22°C42 20		11609 May 23 13:59	9° Ⅱ 31'27	3°11'37	C	11610 May 02 11:01	30°R ∀	
morning rice 1160 May 28 19-36 of 1740 May 28 19-36 of 1600 May 07 23-22 32*83622 2*5722 desc. node 1160 May 10 11 19-33 of 2745575 of 1600 May 10 11 19-33 of 2745575 of 1600 May 10 11 19-33 of 2745751 of 1600 May 10 10 12 70 74 74 74 74 74 74 74 74 74 74 74 74 74	•	11609 May 24 06:24	8° Ⅱ 34'58	0.68175 AU	evening set	11610 May 02 16:44	29° 8 48'28	
direct 1169 Jun 10 3 0728 o"T4497 minimum dom 11610 May 07 2152 22*85202 25*7272 dece node 11609 Jul 12 1030 "T2230 24*0510 minimum dom 11610 May 13 0248 17*81705 68*67 AU morning set 11609 Jul 12 01212 25*21724 december 11610 May 13 0248 17*81705 25*8272 68*874 max. Earth dist 11609 Jul 12 02050 0°L december 11610 May 27 1210 22*85100 0°E8*033 22*3524 superior conj 11609 Jul 30 0216 18*21238 34*913 oversion minimum dom 11610 Jul 30 0216 4*82421 4 minimum dolog 11609 Jul 30 0216 8*22372 8*2239 0*910 max. Earth dist 11610 Jul 30 10*2 12*20*2 12*20*1 4.0657 AU superior conj 11609 Jul 30 0130 8*2217 ************************************	morning rise	•	3° Ⅱ 10′06		•	•		2°58'11
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moming max el 1160 Pale 18 100 °T23 00 24°0510 moming set direct 11610 May 18 0138 17°81705 ************************************						,	_	
Marcing 11609 10 20 1211 28° 28' 135 28° 28' 138' 28' 16' 16' 16' 19' 12' 12' 12' 12' 138' 138' 16' 16' 19' 12' 12' 138' 138' 16' 16' 19' 12' 138' 138' 16' 16' 16' 19' 12' 138' 138' 16' 16' 16' 19' 12' 13' 16' 16' 18' 18' 18' 18' 18' 18' 18' 18' 18' 18				24°05'10		,	_	
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min. Earth dist. 11609 Sep 16 02:56 0°£18'58 0.56319 AU inferior conj 11610 Aug 25 14:25 13° \$3905 0°00715 moming rise 11609 Sep 16 14:23 30°R\$ minimum elong 11610 Aug 25 14:25 13° \$3905 0°0002 direct 11609 Sep 26 13:46 26°R\$124' transit end 11610 Aug 25 16:54 13° \$3915 10° \$4000 morning max el 11609 Oct 10 18:22 3°\$£37'24 25°58'05 desc. node 11610 Aug 25 14:54 13° \$3835'5 10°\$£8'12 asc. node 11609 Nov 10 16:52 4°R\$58'9 morning fise 11610 Aug 28 2:14 10°\$\$8'12 0.58265 AU morning set 11609 Nov 13 03:50 0°\$\$ morning fise 11610 Sep 20 14:54 0°\$\$\$ 10°\$\$\$ 0°\$\$\$ 11610 Sep 20 14:54 0°\$\$\$		-			-	•		
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moming rise 11609 Sep 2 l 2 c 13.14 27° ₹3127 2.24 transit middle 11610 Aug 2 5 14.25 13° ₹3905 0°0002 direct 11609 Sep 2 c 13.46 26° ₹2041 2.24 transit begin 11610 Aug 2 5 10.54 13° ₹3155	min. Earth dist.	1		0.56319 AU	3	-	-	
direct 11609 Sep 26 13:46 26°m20'41 transit begin 11610 Aug 25 10:54 13°m46'14 Heavily 150 New 1		•			_	Č	-•	
morning max el 1609 Oct 0 10:24 0°	Č	•	-			=	=	0~00.02
morning max el 11609 Oct 10 18:22 3°\$\text{3}*24 25°\$\text{8}*05 desc. node 11610 Aug 25 14:45 13°\text{1}\text{3}*03*825 0.58265 AU asc. node 11609 Nov 01 06:52 48'\text{1}\text{5}\text{9} morning rise 11610 Aug 28 22:19 10°\text{5}\text{8}*10 0.58265 AU asc. node 11609 Nov 01 06:52 48'\text{1}\text{5}\text{9} morning rise 11610 Aug 28 22:19 10°\text{5}\text{8}*10 0.58265 AU asc. node 11609 Nov 07 17:28 18°\text{1}\text{5}\text{0}*9 morning max el 11610 Sep 08 04:29 66'\text{3}\text{6}\text{1}\text{6}\text{1}\text{6}\text{1}\text{6}\text{1}\te	direct	•	-		Č	•		
1609 Oct 29 14:54 0°IL min. Earth dist. 11610 Aug 28 22:19 10°IS 812 0.58265 AU asc. node 11609 Nov 01 06:52 4°IL5809 morning rise 11610 Sep 02 00:45 8°IL511 Page 15 1009 Nov 07 17:28 18°IL0539 direct 11610 Sep 02 00:45 8°IL511 Page 15 1009 Nov 13 03:50 0°IL morning max el 11610 Nov 13 03:50 0°IL Page 15 1009 Nov 14 12:58 3°IL0539 1°36'42 asc. node 11610 Oct 05 03:22 0°IL minimum elong 11609 Nov 14 12:05 3°IS924 13175 AU morning set 11610 Oct 23 02:10 2°IL36'28 Page 15 1009 Nov 14 12:00 13:12 18°IL514 Page 15 1009 Nov 14 13:12 18°IL514 Page 15 1009 Nov 14 13:12 18°IL514 Page 15 1009 Nov 14 13:12 18°IL514 Page 15 1009 Nov 15 13:27 5°IL514 Page 15 1009 Nov 15 13:29 Page 15 1009 Nov 15 13:29 Page 15 1009 Nov 15 13:29 Page 15 1009 Nov 15 1009 No				25050105		Č	-	
Superior conj 1609 Nov 1 06:52 12.58 13.0539 morning rise 1610 Sep 02 01:45 03:609 03:6	morning max el			25°58'05		•	-•	0.50265.441
Minimum elong 11609 Nov 07 17.28 18° ILoS'39 Minimum elong 11600 Nov 13 03:50 0° ネ Minimum elong 11600 Nov 14 12:58 3° 水 03:50 1°36'42 Minimum elong 11600 Nov 14 12:58 3° 水 03:50 1°36'42 Minimum elong 11600 Nov 14 12:58 3° 水 03:50 1°36'42 Minimum elong 11600 Nov 14 12:00 2° 水 58'27 1371'15 Minimum elong 11600 Nov 15 13:27 5° 水 19°24 1.31752 AU Morning set 11610 Oct 23 02:10 2° IL\36'28	,					Č	-	0.58265 AU
Morning max el 11609 Nov 13 03:50 0°\$\frac{\f					=	=		
superior conj	morning set						-	27012115
superior conj 11609 Nov 14 12:58 3°\$\tilde{\pi}05'50 1°36'42 asc. node 11610 Oct 19 03:39 24°\tilde{\tilde{\pi}28'5}\$ 4 22°\tilde{\pi}58'27 1°37'17 1610 Oct 21 20:26 0°\$\tilde{\tilde{\pi}16'}\$ 0°\$\tilde{\pi}16'09 Nov 15 13:27 5°\$\tilde{\pi}19'24 1.31752 AU morning set 11610 Oct 23 0:210 2°\$\tilde{\pi}36'28 2°\$\tilde{\pi}36'28 evening rise 11609 Nov 27 10:06 0°\$\tilde{\pi}\$ superior conj 11610 Oct 30 0:041 17°\$\tilde{\pi}49'15 1°28'29 desc. node 11609 Dec 16 09:38 0°\$\tilde{\pi}\$ superior conj 11610 Oct 29 2:11 17°\$\tilde{\pi}49'15 1°28'49 evening max el 11609 Dec 23 13:04 7°\$\tilde{\pi}31'3 27°24'08 11610 Nov 04 13:01 0°\$\tilde{\pi}\$ 1331369 AU evening set 11610 Jan 13 05:33 12°\$\tilde{\pi}52'15'1 2°\$\tilde{\pi}40'8 11610 Nov 04 13:01 0°\$\tilde{\pi}40'8 1331369 AU evening max el 11610 Jan 13 05:33 12°\$\tilde{\pi}52'15'15'15'15'26'10'15'15'15'15'15'15'15'15'15'15'15'15'15'		11609 Nov 13 03:50	0° X '		morning max el	=	-•	2/°13′15
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Max. Earth dist. 11610 Oct 29 22:11 17° IL 35'18 1.31369 AU evening max el 11609 Dec 23 13:04 7°≈53'13 27°24'08 11610 Nov 04 13:01 0° ₹ retrograde 11610 Jan 13 109:53 12°≈55'21 11610 Nov 05 19:13 2° ₹ 42'11 evening set 11610 Jan 13 09:53 12°≈55'21 11610 Nov 20 07:35 0° ₹ min. Earth dist. 11610 Jan 17 03:28 10°≈03'47 0.61602 AU desc. node 11610 Nov 21 11:55 1° ₹ 52'04 inferior conj 11610 Jan 20 04:23 7°≈19'23 -2°36'49 evening max el 11610 Dec 05 15:45 19° ₹ 47'50 26° 43'43 minimum elong 11610 Jan 20 09:45 7°≈07'13 2°34'06 retrograde 11610 Dec 19 14:26 26° ₹ 56'02 morning rise 11610 Jan 28 06:11 2°≈08'33 min. Earth dist. 11610 Dec 30 05:56 22° ₹ 26'24 0.59466 AU direct 11610 Feb 05 15:07 5°≈30'07 17°50'49 minimum elong 11611 Jan 02 17:52 19° ₹ 41'09 3°51'45 morning set 11610 Feb 21 07:35 29°≈56'05 morning rise 11611 Jan 10 07:22 15° ₹ 17'51 10° ₹ 41'09 3°51'45 morning set 11610 Feb 21 07:35 29°≈56'05 morning rise 11611 Jan 10 07:22 15° ₹ 17'51 10° ₹ 41'09 3°51'45 morning set 11610 Feb 21 07:35 29°≈56'05 morning rise 11611 Jan 10 07:22 15° ₹ 17'51 10° ₹ 41'09 3°51'45 morning set 11610 Feb 21 07:35 29°≈56'05 morning rise 11611 Jan 10 07:22 15° ₹ 17'51 10° ₹ 41'09 3°51'45 morning rise 11610 Feb 21 07:35 29°≈56'05 morning rise 11611 Jan 10 07:22 15° ₹ 17'51 10° ₹ 41'09 3°51'45 morning rise 11610 Feb 21 07:35 29°≈56'05 morning rise 11611 Jan 10 07:22 15° ₹ 17'51 10° ₹ 1								
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,	11611 1 15 02 24	150-720120			11611 D 17 14 45	200- 7	
asc. node	11611 Jan 15 03:24	15° る 30'38			11611 Dec 17 14:45	30°₹ ⋌ ¹	
morning max el	11611 Jan 20 03:15	18° る 51'42	18°13'11	morning rise	11611 Dec 23 03:49	27° ⋌ ¹32'57	
	11611 Jan 28 05:40	0° ≈		direct	11611 Dec 25 09:35	27° ∡ 17'44	
morning set	11611 Feb 04 19:54	13° ≈ 48′27			11612 Jan 01 10:46	0° ろ	
	11611 Feb 13 12:15	0° ∀		asc. node	11612 Jan 02 00:32	0° る 27'38	
				morning max el	11612 Jan 03 06:54	1° る 36'03	18°56'41
superior conj	11611 Feb 14 08:07	1° ¥ 30′04	0°24'29	morning set	11612 Jan 19 18:26	28° る 07'39	
minimum elong	11611 Feb 14 09:56	1° ¥ 38′15	0°24'37		11612 Jan 20 17:15	0° ≈	
desc. node	11611 Feb 17 11:53	7° ∺ 07'54					
max. Earth dist.	11611 Feb 21 22:37	14°) (48′27	1.41336 AU	superior conj	11612 Jan 28 05:20	14° ≈ 38'15	0°54'08
evening rise	11611 Feb 26 18:21	22°) 48′21		minimum elong	11612 Jan 28 08:15	14° ≈ 52′08	0°54'18
	11611 Mar 03 06:31	0° Y		max. Earth dist.	11612 Feb 04 05:47	27° ≈ 34'40	1.39141 AU
	11611 Mar 24 01:42	0° 8		desc. node	11612 Feb 04 08:36	27° ≈ 47'11	
evening max el	11611 Apr 01 16:19	10° 8 02'27	23°05'24		11612 Feb 05 14:41	0° ∀	
retrograde	11611 Apr 12 00:25	16° 8 08'30		evening rise	11612 Feb 08 02:23	4° 光 18′23	
asc. node	11611 Apr 13 00:51	16° 8 03'36			11612 Feb 24 09:34	0° Y	
evening set	11611 Apr 16 23:59	14° 8 03'35		evening max el	11612 Mar 14 06:15	23° Y 52'48	24°25'32
inferior conj	11611 Apr 22 08:46	7° 8 38'11	2°33'57		11612 Mar 22 17:09	9° 8	
minimum elong	11611 Apr 22 06:42	7° 8 45'20	2°33'03	retrograde	11612 Mar 25 16:47	0° 8 34'32	
min. Earth dist.	11611 Apr 21 22:46	8° 8 12'48	0.68718 AU		11612 Mar 28 11:46	30° ₹Ƴ	
morning rise	11611 Apr 27 13:19	1° 8 30'48		asc. node	11612 Mar 29 22:11	29° Ƴ 13'40	
	11611 Apr 30 05:03	30° ŖƳ		evening set	11612 Mar 31 04:17	28° Ƴ 16'47	
direct	11611 May 01 22:57	29° Y '43'38		min. Earth dist.	11612 Apr 04 18:35	23° Y 01'40	0.68316 AU
	11611 May 03 18:35	0° ႘		inferior conj	11612 Apr 05 16:48	21° Y 47'07	2°00'02
morning max el	11611 May 10 12:30	4° 8 39'42	21°11'10	minimum elong	11612 Apr 05 14:39	21° Y 54'20	1°59'09
desc. node	11611 May 16 13:21	11° 8 37'06		morning rise	11612 Apr 11 01:09	15° Ƴ 47'26	
	11611 May 29 16:55	$\Pi^{\circ}0$		direct	11612 Apr 14 22:05	14° Ƴ 21'49	
morning set	11611 Jun 10 11:51	17° Ⅲ 58'46		morning max el	11612 Apr 22 11:13	18° Ƴ 35′05	19°58'23
max. Earth dist.	11611 Jun 17 16:18	29° Ⅲ 29'01	1.42684 AU	-	11612 May 01 16:56	9° 8	
	11611 Jun 17 23:53	0°ಲಾ		desc. node	11612 May 02 10:08	1° 8 00'15	
				morning set	11612 May 19 13:02	26° 8 32'20	
superior conj	11611 Jun 24 22:16	11° © 35'10	-1°51'44	•	11612 May 21 18:51	$\Pi^{\circ}0$	
minimum elong	11611 Jun 25 04:57	12° © 03'41	1°51'53	max. Earth dist.	11612 May 30 03:30	13° Ⅱ 07'04	1.44357 AU
	11611 Jul 05 09:37	$0^{\circ}\Omega$			•		
evening rise	11611 Jul 06 10:57	1° Ω 53'53		superior conj	11612 Jun 04 12:23	21° Ⅱ 45′28	-2°10'11
asc. node	11611 Jul 09 23:23	8° Ω 12'32		minimum elong	11612 Jun 04 16:09	22° Ⅱ 00'45	2°10'48
evening max el	11611 Jul 22 20:28	27° Ω 39'25	18°05'30	Č	11612 Jun 09 12:38	0°ಅ	
C	11611 Jul 25 19:42	0° m)		evening rise	11612 Jun 17 18:08	13° © 54'16	
retrograde	11611 Jul 29 14:07	1° m 06'01		asc. node	11612 Jun 25 20:19	27° © 36'12	
evening set	11611 Aug 01 00:27	0° mp 39'18			11612 Jun 27 07:50	$0^{\circ}\Omega$	
C	11611 Aug 02 10:54	30° ₽.Ω		evening max el	11612 Jul 05 10:21	10° Ω 57'30	18°06'46
inferior conj	11611 Aug 07 20:18	25° Ω 43'26	1°21'21	retrograde	11612 Jul 11 19:37	14° Ω 17'50	
minimum elong	11611 Aug 07 22:34	25° Ω 38'07	1°20'06	evening set	11612 Jul 14 13:57	13° Ω 38'35	
min. Earth dist.	11611 Aug 11 01:36	22° Ω 42'47	0.60512 AU	inferior conj	11612 Jul 20 19:14	8° Ω 24'07	2°18'07
desc. node	11611 Aug 12 12:07	21° Ω 28'57		minimum elong	11612 Jul 20 21:53	8° Ω 17'01	
morning rise	11611 Aug 14 17:49	19° Ω 51'04					
direct				min. Earth dist.			0.62758 AU
	11611 Aug 21 07:26	17° Ω 44'22			11612 Jul 23 14:10 11612 Jul 27 03:53	5° Ω 25'55 2° Ω 13'25	0.62758 AU
morning max el	11611 Aug 21 07:26 11611 Sep 04 14:22	17° Ω 44'22 25° Ω 39'34	27°52'39	morning rise	11612 Jul 23 14:10 11612 Jul 27 03:53	5° Ω 25'55 2° Ω 13'25	0.62758 AU
morning max el	11611 Sep 04 14:22	25° Ω 39'34	27°52'39		11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26	5°Ω25'55 2°Ω13'25 0°Ω50'27	0.62758 AU
morning max el	11611 Sep 04 14:22 11611 Sep 08 14:59	25° Ω 39'34 0° m	27°52'39	morning rise desc. node	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46	5° N 25'55 2° N 13'25 0° N 50'27 30° R S	0.62758 AU
	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08	25° Ω 39'34 0° m 0° ⊆	27°52'39	morning rise	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31	5° N25'55 2° N13'25 0° N50'27 30° RS 29° S45'03	0.62758 AU
asc. node	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23	25° Q 39'34 0° M 0° Ω 14° Ω 16'15	27°52'39	morning rise desc. node direct	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55	5° Ω25'55 2° Ω13'25 0° Ω50'27 30° RS 29° S45'03 0° Ω	
	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38	25° N 39'34 0° M 0° Ω 14° Ω 16'15 16° Ω 52'25	27°52'39	morning rise desc. node	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48	5° N25'55 2° N13'25 0° N50'27 30° RS 29° S45'03 0° N 7° N47'22	
asc. node morning set	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48	25° Q 39'34 0° m 0° a 14° a 16'15 16° a 52'25 0° m		morning rise desc. node direct	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06	5° N 25'55 2° N 13'25 0° N 50'27 30° R 5 29° 545'03 0° N 7° N 47'22 0° M	
asc. node	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38	25° N 39'34 0° M 0° Ω 14° Ω 16'15 16° Ω 52'25	27°52'39 1.31491 AU	morning rise desc. node direct morning max el	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20	5° N25'55 2° N13'25 0° N50'27 30° RS 29° S45'03 0° N 7° N47'22 0° M 0° Ω	
asc. node morning set max. Earth dist.	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 13 06:34	25° ብ 39'34 0° ሙ 0° ው 14° ው 16'15 16° ው 52'25 0° ጤ 29° ው 47'42	1.31491 AU	morning rise desc. node direct morning max el	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41	5° N25'55 2° N13'25 0° N50'27 30° R\$ 29° \$45'03 0° N 7° N47'22 0° M 0° \$\Oldsymbol{\Omega}\$ 0° \$\Oldsymbol{\Omega}\$ 0° \$\Oldsymbol{\Omega}\$	
asc. node morning set max. Earth dist. superior conj	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 13 06:34	25° Q 39'34 0° m 0° a 14° a 16'15 16° a 52'25 0° m		morning rise desc. node direct morning max el	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05	5° N25'55 2° N13'25 0° N50'27 30° RS 29° S45'03 0° N 7° N47'22 0° M 0° Ω	
asc. node morning set max. Earth dist. superior conj minimum elong	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 14 06:34 11611 Oct 14 11:46 11611 Oct 14 09:34	25° \mathbb{\Omega}39'34 0° \mathbb{\Omega} 0° \mathbb{\Omega} 14° \mathbb{\Omega}16'15 16° \mathbb{\Omega}52'25 0° \mathbb{\Omega}47'42 2° \mathbb{\Omega}29'20 2° \mathbb{\Omega}17'05	1.31491 AU 1°14'44	morning rise desc. node direct morning max el morning set asc. node	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41	5° \O25'55 2° \O13'25 0° \O25'27 30° \RS 29° \Sigma 45'03 0° \O47'22 0° \mathred{m} 0° \O26 0° \O47'15 4° \O213'59	27°53'25
asc. node morning set max. Earth dist. superior conj	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 13 06:34	25° \mathbb{\alpha}39'34 0° \mathbb{\mathbb{m}} 0° \mathbb{\mathbb{\mathbb{\mathbb{m}}}16'15 16° \mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{m}}}}52'25} 0° \mathbb{\mathbb{m}} 29° \mathbb{\mathbb{\mathbb{\mathbb{m}}}47'42 2° \mathbb{\mathbb{m}}29'20	1.31491 AU 1°14'44	morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38	5° \O25'55 2° \O13'25 0° \O25'27 30° \RS 29° \Sigma 45'03 0° \O47'22 0° \mathred{m} 0° \O26 0° \O47'15 4° \O213'59	27°53'25
asc. node morning set max. Earth dist. superior conj minimum elong	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 14 11:46 11611 Oct 14 11:46 11611 Oct 14 09:34 11611 Oct 21 04:51	25° \mathbb{\alpha}39'34 0° \bar{\bar{\bar{\bar{\bar{\bar{\bar{\b	1.31491 AU 1°14'44	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38	5° \O25'55 2° \O13'25 0° \O50'27 30° \RS 29° \Signature 45'03 0° \O47'22 0° \mathred{m} 0° \Omega 0° \Omega 47'15 4° \Omega 13'59 11° \Omega 45'27	27°53'25 1.32115 AU
asc. node morning set max. Earth dist. superior conj minimum elong evening rise	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 13 08:48 11611 Oct 13 06:34 11611 Oct 14 11:46 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29	25° € 339'34 0° № 0° № 14° № 16'15 16° № 52'25 0° № 29° № 47'42 2° № 29'20 2° № 17'05 17° № 16'33 0° ₹	1.31491 AU 1°14'44	morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 20:18 11612 Sep 27 18:08	5° \O25'55 2° \O25'55 2° \O25'27 30° \O25'27 30° \O25'27 30° \O25'23 0° \O25'23 0° \O25'23 0° \O25'22 0° \O25'22 0° \O25'22 10° \O25'27 16° \O257'54 16° \O257'54	27°53'25 1.32115 AU 0°55'38
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 13 08:48 11611 Oct 13 06:34 11611 Oct 14 11:46 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29 11611 Nov 08 09:08 11611 Nov 16 13:40	25° € 339'34 0° № 0° № 14° № 16'15 16° № 52'25 0° № 29° № 47'42 2° № 29'20 2° № 17'05 17° № 16'33 0° ₹ 7 20° ₹ 06'54 0° ₹	1.31491 AU 1°14'44 1°14'46	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 20:18 11612 Sep 27 18:08 11612 Oct 03 19:13	5° \O25'55 2° \O25'55 2° \O25'27 30° \O25'27 30° \O25'27 30° \O25'27 29° \O25'45'03 0° \O25'22 0° \O25'22 0° \O25'22 10° \O25'27 16° \O25'554 16° \O25'554 16° \O25'554	27°53'25 1.32115 AU 0°55'38
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 06:34 11611 Oct 14 11:46 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29 11611 Nov 08 09:08 11611 Nov 16 13:40 11611 Nov 17 10:15	25° € 339'34 0° № 0° № 14° № 16'15 16° № 52'25 0° № 29° № 47'42 2° № 29'20 2° № 17'05 17° № 16'33 0° ₹ 20° ₹ 06'54 0° ₹	1.31491 AU 1°14'44	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 20:18 11612 Sep 27 18:08 11612 Oct 03 19:13 11612 Oct 04 16:04	5° \O25'55 2° \O25'55 2° \O25'27 30° \O25'27 30° \O25'27 30° \O25'23 0° \O25'23 0° \O25'23 0° \O25'22 0° \O25'22 0° \O25'22 10° \O25'27 16° \O257'54 16° \O257'54	27°53'25 1.32115 AU 0°55'38
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 13 08:48 11611 Oct 13 06:34 11611 Oct 14 11:46 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29 11611 Nov 08 09:08 11611 Nov 16 13:40 11611 Nov 17 10:15 11611 Dec 01 07:09	25° € 339'34 0° № 0° № 14° № 16'15 16° № 52'25 0° № 29° № 47'42 2° № 29'20 2° № 17'05 17° № 16'33 0° ₹ 20° ₹ 06'54 0° ₹ 50'06	1.31491 AU 1°14'44 1°14'46	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 18:08 11612 Oct 03 19:13 11612 Oct 04 16:04 11612 Oct 19 20:00	5° \O25'55 2° \Omega 13'25 0° \Omega 50'27 30° \Omega 50'27 30° \Omega 50'27 30° \Omega 50'3 0° \Omega 7° \Omega 47'15 4° \Omega 13'59 11° \Omega 45'27 16° \Omega 57'54 16° \Omega 46'09 0° \Omega 1° \Omega 52'33 0° \neq 7	27°53'25 1.32115 AU 0°55'38
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 14 06:34 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29 11611 Nov 16 13:40 11611 Nov 16 13:40 11611 Nov 17 10:15 11611 Dec 01 07:09 11611 Dec 07 07:06	25° \$\alpha 39'34 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 14° \$\mathbf{n}\$ 16'15 16° \$\mathbf{n}\$ 52'25 0° \$\mathbf{m}\$ 29° \$\mathbf{n}\$ 47'42 2° \$\mathbf{m}\$ 29'20 2° \$\mathbf{m}\$ 16'33 0° \$\mathbf{n}\$ 20° \$\mathbf{n}\$ 06'54 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 50'06 7° \$\mathbf{n}\$ 49'03 6° \$\mathbf{n}\$ 26'34	1.31491 AU 1°14'44 1°14'46 25°30'45	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 20:18 11612 Sep 27 18:08 11612 Oct 03 19:13 11612 Oct 04 16:04 11612 Oct 19 20:00 11612 Oct 25 06:25	5° \$\Omega 25'55 2° \$\Omega 13'25 0° \$\Omega 50'27 30° \$\Psi \\ 29° \$\Sigma 45'03 0° \$\Omega \\ 7° \$\Omega 47'15 4° \$\Omega 13'59 11° \$\Omega 45'27 16° \$\Omega 57'54 16° \$\Omega 46'09 0° \$\Omega \\ 1° \$\Omega 52'33 0° \$\neq 7° \$\neq 14'42	27°53'25 1.32115 AU 0°55'38 0°55'24
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 14 11:46 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29 11611 Nov 08 09:08 11611 Nov 16 13:40 11611 Nov 17 10:15 11611 Dec 01 07:09 11611 Dec 07 07:06 11611 Dec 11 22:31	25° \$\alpha 39'34 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 14° \$\mathbf{n}\$ 16'15 16° \$\mathbf{n}\$ 52'25 0° \$\mathbf{m}\$ 29° \$\mathbf{n}\$ 47'42 2° \$\mathbf{m}\$ 29'20 2° \$\mathbf{m}\$ 17'05 17° \$\mathbf{m}\$ 16'33 0° \$\mathbf{n}\$ 20° \$\mathbf{n}\$ 06'54 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 50'06 7° \$\mathbf{n}\$ 49'03 6° \$\mathbf{n}\$ 26'34 3° \$\mathbf{n}\$ 48'24	1.31491 AU 1°14'44 1°14'46 25°30'45 0.57428 AU	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 18:08 11612 Oct 03 19:13 11612 Oct 04 16:04 11612 Oct 04 16:04 11612 Oct 19 20:00 11612 Oct 25 06:25 11612 Oct 28 21:37	5° \$\Omega 25'55 2° \$\Omega 13'25 0° \$\Omega 50'27 30° \$\Psi \\ 29° \$\Sigma 45'03 0° \$\Omega \\ 7° \$\Omega 47'12 0° \$\Omega \\ 0° \$\Omega 47'15 4° \$\Omega 13'59 11° \$\Omega 45'27 16° \$\Omega 57'54 16° \$\Omega 46'09 0° \$\Omega \\ 1° \$\Omega 52'33 0° \$\neq \\ 7° \$\neq 14'42 11° \$\neq 08'28	27°53'25 1.32115 AU 0°55'38 0°55'24
asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set	11611 Sep 04 14:22 11611 Sep 08 14:59 11611 Sep 28 15:08 11611 Oct 06 00:23 11611 Oct 07 06:38 11611 Oct 13 08:48 11611 Oct 14 06:34 11611 Oct 14 09:34 11611 Oct 21 04:51 11611 Oct 27 09:29 11611 Nov 16 13:40 11611 Nov 16 13:40 11611 Nov 17 10:15 11611 Dec 01 07:09 11611 Dec 07 07:06	25° \$\alpha 39'34 0° \$\mathbf{m}\$ 0° \$\mathbf{n}\$ 14° \$\mathbf{n}\$ 16'15 16° \$\mathbf{n}\$ 52'25 0° \$\mathbf{m}\$ 29° \$\mathbf{n}\$ 47'42 2° \$\mathbf{m}\$ 29'20 2° \$\mathbf{m}\$ 16'33 0° \$\mathbf{n}\$ 20° \$\mathbf{n}\$ 06'54 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 50'06 7° \$\mathbf{n}\$ 49'03 6° \$\mathbf{n}\$ 26'34	1.31491 AU 1°14'44 1°14'46 25°30'45 0.57428 AU -5°04'22	morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	11612 Jul 23 14:10 11612 Jul 27 03:53 11612 Jul 29 09:26 11612 Jul 31 16:46 11612 Aug 02 20:31 11612 Aug 05 01:55 11612 Aug 16 21:48 11612 Sep 02 23:06 11612 Sep 19 19:20 11612 Sep 20 04:41 11612 Sep 21 21:05 11612 Sep 25 10:38 11612 Sep 27 20:18 11612 Sep 27 18:08 11612 Oct 03 19:13 11612 Oct 04 16:04 11612 Oct 19 20:00 11612 Oct 25 06:25	5° \$\Omega 25'55 2° \$\Omega 13'25 0° \$\Omega 50'27 30° \$\Psi \\ 29° \$\Sigma 45'03 0° \$\Omega \\ 7° \$\Omega 47'15 4° \$\Omega 13'59 11° \$\Omega 45'27 16° \$\Omega 57'54 16° \$\Omega 46'09 0° \$\Omega \\ 1° \$\Omega 52'33 0° \$\neq 7° \$\neq 14'42	27°53'25 1.32115 AU 0°55'38 0°55'24

min. Earth dist.	11612 Nov 22 08:10	140 7 07'16	0.55753 AU	min. Earth dist.	11613 Nov 03 15:15	23°M 25'12	0.54749 AU
inferior conj	11612 Nov 24 10:09	12° × 52'00		inferior conj	11613 Nov 04 07:26	23°M12'25	
minimum elong		12 x 32 00	5°45'25	•		23°M20'04	
Č	11612 Nov 24 13:11		5-45-25	minimum elong	11613 Nov 04 02:00		5-3/43
morning rise	11612 Dec 02 21:33	8° ∡ ¹55'57		morning rise	11613 Nov 12 17:00	19°M25'17	
direct	11612 Dec 05 13:50	8° 🗷 37'47	20002176	direct	11613 Nov 16 02:04	18°M59'48	21021114
morning max el	11612 Dec 15 22:26	13° ₹ 33'22	20°02'56	morning max el	11613 Nov 28 00:06	24°M38'55	21°31'14
asc. node	11612 Dec 18 21:35	16° ⊀ ¹46'20			11613 Dec 02 18:53	0° ∡ 7	
	11612 Dec 27 11:21	0°る		asc. node	11613 Dec 05 18:34	4° √ 10'17	
morning set	11613 Jan 02 23:44	12° る 43'31		morning set	11613 Dec 18 09:08	27° ∡ °28′09	
					11613 Dec 19 14:04	0°る	
superior conj	11613 Jan 10 16:44	28°₹25'38	1°16'01		11(12)	100710110	1020122
minimum elong	11613 Jan 10 19:29	28° る 39'21	1°16'22	superior conj	11613 Dec 25 14:17	12°る40'12	1°30'22
	11613 Jan 11 11:40	0° ≈		minimum elong	11613 Dec 25 16:10	12° ろ 50'01	1°30'58
max. Earth dist.	11613 Jan 16 12:27	9° ≈ 44'59	1.36935 AU	max. Earth dist.	11613 Dec 29 23:21	21° පි 37'11	1.34956 AU
evening rise	11613 Jan 20 06:29	16° ≈ 39'58		evening rise	11614 Jan 03 03:21	29° る 44'15	
desc. node	11613 Jan 21 05:22	18° ≈ 22'28			11614 Jan 03 06:41	0° ≈	
	11613 Jan 28 00:27	0° ∀		desc. node	11614 Jan 08 02:10	8° ≈ 49'10	
	11613 Feb 17 20:20	0° Υ			11614 Jan 21 04:00	0° ∀	
evening max el	11613 Feb 24 19:34	7° Y '43'24	25°39'28	evening max el	11614 Feb 07 09:02	21° ¥ 28′20	26°39'59
retrograde	11613 Mar 09 04:44	14° Y 51'04		retrograde	11614 Feb 20 11:24	28° ¥ 50′00	
evening set	11613 Mar 15 04:03	12° Y 23'31		evening set	11614 Feb 26 21:27	26° ∺ 17'18	
asc. node	11613 Mar 16 19:30	10° Y ′50′13		min. Earth dist.	11614 Mar 02 22:54	22° ∺ 11′26	0.66259 AU
min. Earth dist.	11613 Mar 19 11:20	7° Ƴ 43'32	0.67487 AU	asc. node	11614 Mar 03 16:50	21° ∺ 18'42	
inferior conj	11613 Mar 20 21:39	5° Ƴ 54'14	1°16'24	inferior conj	11614 Mar 04 21:12	19° ⊁ 54′08	0°22'54
minimum elong	11613 Mar 20 19:57	5° Ƴ 59'40	1°15'47	minimum elong	11614 Mar 04 20:35	19° ⊁ 55'58	0°22'52
morning rise	11613 Mar 26 12:22	0° Ƴ 03'33		morning rise	11614 Mar 10 20:49	14° ∺ 14'17	
	11613 Mar 26 14:37	30° Ŗ ₩		direct	11614 Mar 13 19:32	13° ¥ 26′01	
direct	11613 Mar 29 21:32	28° ¥ 58′02		morning max el	11614 Mar 20 06:27	16° ¥ 51'45	18°18'45
	11613 Apr 02 08:09	0 ° Υ			11614 Mar 30 03:44	0° Y	
morning max el	11613 Apr 05 17:41	2° Y 41'16	19°00'26	desc. node	11614 Apr 06 03:29	11° Y ′00'24	
greatest brilliancy	11613 Apr 19 02:32	20° Y 34'23	-0.7m	morning set	11614 Apr 08 22:26	15° Ƴ 27'38	
desc. node	11613 Apr 19 06:51	20° Ƴ 50'42			11614 Apr 18 02:11	9° 8	
	11613 Apr 25 06:15	$_{0\circ}$ 8					
morning set	11613 Apr 28 18:04	5° 8 24'18		superior conj	11614 Apr 24 11:42	10° 8 02'29	-1°52'18
max. Earth dist.	11613 May 12 19:56	27° 8 19'38	1.45402 AU	minimum elong	11614 Apr 24 02:41	9° 8 27'17	1°52'01
	11613 May 14 12:46	Π° 0		max. Earth dist.	11614 Apr 25 14:59	11° 8 49'09	1.45724 AU
					11614 May 07 06:27	Π° 0	
superior conj	11613 May 15 04:54	1° Ⅱ 03'29	-2°11'23	evening rise	11614 May 10 10:53	4° Ⅱ 59'00	
minimum elong	11613 May 15 01:31	0° Ⅱ 50′09	2°11'55	greatest brilliancy	11614 May 21 01:09	21° Ⅲ 28'52	-0.8m
evening rise	11613 May 30 02:31	24° Ⅲ 55'52			11614 May 26 19:12	0°9	
	11613 Jun 02 05:09	0°99		asc. node	11614 May 30 14:25	5° 5 02'52	
asc. node	11613 Jun 12 17:20	16° © 35'52		evening max el	11614 Jun 02 09:36	8° © 11'19	19°03'23
evening max el	11613 Jun 18 23:35	24°530'20	18°26'19	retrograde	11614 Jun 09 05:50	11° © 59'16	
retrograde	11613 Jun 25 10:04	27° 9 58'09		evening set	11614 Jun 12 16:47	10° 5 49'59	
evening set	11613 Jun 28 12:30	27°504'30		inferior conj	11614 Jun 18 04:25	5° 5 03'58	3°11'39
inferior conj	11613 Jul 04 07:10	21° 5 33'27	2°53'34	minimum elong	11614 Jun 18 05:20	5° 5 01'02	3°10'50
minimum elong	11613 Jul 04 09:09	21° 5 27'33	2°52'31	min. Earth dist.	11614 Jun 19 18:38	3°501'47	0.66452 AU
min. Earth dist.	11613 Jul 06 12:13	18° © 56'36	0.64786 AU		11614 Jun 22 08:49	30° Ŗ Ⅱ	
morning rise	11613 Jul 10 04:39	15° © 13'39		morning rise	11614 Jun 23 17:15	28° Ⅱ 41'44	
desc. node	11613 Jul 16 06:41	12° 5 33'47		direct	11614 Jun 29 23:16	25° Ⅲ 59'27	
direct	11613 Jul 16 18:18	12° 5 32'58		desc. node	11614 Jul 03 03:50	26° Ⅲ 35′21	
morning max el	11613 Jul 30 08:16	20°531'17	27°18'54		11614 Jul 08 19:38	0°©	
-	11613 Aug 07 12:04	$0^{\circ}\Omega$		morning max el	11614 Jul 12 19:05	3° 5 38'47	26°16'38
	11613 Aug 27 01:32	o∘ mp			11614 Aug 01 19:51	$0^{\circ}\Omega$	
morning set	11613 Sep 03 17:46	14° m) 14'30		morning set	11614 Aug 17 18:31	27° Ω 05'42	
max. Earth dist.	11613 Sep 08 06:32	23° m 19'52	1.33252 AU	· ·	11614 Aug 19 07:34	0° m/	
asc. node	11613 Sep 08 17:47	24° m 17'54		max. Earth dist.	11614 Aug 21 16:01	4° m/31'39	1.34890 AU
	11613 Sep 11 11:07	0∘ <u>⊽</u>			-	•	
	-			superior conj	11614 Aug 26 21:07	14° m 58'00	0°02'41
superior conj	11613 Sep 12 00:13	1° ₾ 09'32	0°31'27	minimum elong	11614 Aug 26 20:59	14° m 57'19	0°02'23
minimum elong	11613 Sep 11 22:43	1° ჲ 01'36	0°31'05	behind sun begin	11614 Aug 26 15:04	14° m 27'04	
evening rise	11613 Sep 19 03:04	16° ≙ 25'10		behind sun end	11614 Aug 27 02:53	15° m 27'37	
-	11613 Sep 25 20:01	0° M		asc. node	11614 Aug 26 14:30	14° m 24'07	
evening max el	11613 Oct 10 09:04	21°M13'21	22°14'37	evening rise	11614 Sep 03 11:51	0° - 49′12	
desc. node	11613 Oct 12 03:45	22°M51'01			11614 Sep 03 02:23	0∘ ⊽	
retrograde	11613 Oct 23 04:33	27°M35'36			11614 Sep 20 15:29	0° M	
evening set	11613 Oct 26 12:26	27°M11'04		evening max el	11614 Sep 22 06:06	1°M42'12	20°44'05

desc. node	11614 Sep 29 01:07	6° ™ 27'00			11615 Aug 26 12:24	0∘ ⊽	
retrograde	11614 Oct 03 15:47	7°M21'48		evening max el	11615 Sep 04 16:55	0 — 12° Ω 54'46	19°32'31
evening set	11614 Oct 05 21:28	7°M09'41		retrograde	11615 Sep	17° Ω 44'51	17 32 31
inferior conj	11614 Oct 14 23:30	3°M14'37	-4°33'28	desc. node	11615 Sep 15 22:32	17° ⊆ 38'13	
minimum elong	11614 Oct 14 13:31	3°M28'54		evening set	11615 Sep 16 06:28	17° Ω 35'03	
min. Earth dist.	11614 Oct 15 22:57	2°M41'01	0.54642 AU	inferior conj	11615 Sep 25 00:37	13° Ω 29'55	-2°48'39
min. Burur dist.	11614 Oct 21 05:17	30°R Ω	0.0.10.2110	minimum elong	11615 Sep 24 17:13	13° Ω 41'42	2°45'49
morning rise	11614 Oct 23 05:26	29° ₽ 17'31		min. Earth dist.	11615 Sep 27 09:15	12° ⊆ 00'04	0.55477 AU
direct	11614 Oct 27 10:30	28° ₽ 39'26		morning rise	11615 Oct 03 01:49	9° Ω 04'15	
	11614 Nov 02 10:05	0°M		direct	11615 Oct 08 02:52	8° ഫ 07'27	
morning max el	11614 Nov 09 14:34	5°M01'28	23°15'33	morning max el	11615 Oct 22 01:11	15° Ω 05'39	25°02'29
asc. node	11614 Nov 22 15:30	22°M24'24		5 5	11615 Nov 02 21:41	0°M₊	
	11614 Nov 26 19:56	0° ⊼		asc. node	11615 Nov 09 12:22	11°M15'34	
morning set	11614 Dec 02 20:38	12° ∡ 15'54		morning set	11615 Nov 17 08:24	27°M00'54	
S				S	11615 Nov 18 17:37	0° ∡ ¹	
superior conj	11614 Dec 09 18:50	27° ∡ 13′00	1°37'47				
minimum elong	11614 Dec 09 19:35	27° ∡ °17′02	1°38'30	superior conj	11615 Nov 24 03:48	11° ₹ 55'30	1°38'49
C	11614 Dec 11 01:59	ರ°0		minimum elong	11615 Nov 24 03:25	11° ₹ '53'23	1°39'30
max. Earth dist.	11614 Dec 12 18:07	3° ප 32'36	1.33358 AU	max. Earth dist.	11615 Nov 25 20:34	15° ∡ ³38'58	1.32209 AU
evening rise	11614 Dec 17 13:26	13° る 22'18		evening rise	11615 Dec 01 09:22	27° х 24′40	
desc. node	11614 Dec 25 23:06	29° る 02'36		C	11615 Dec 02 15:51	8°0	
	11614 Dec 26 12:18	0° ≈		desc. node	11615 Dec 12 20:07	18° る 55'47	
	11615 Jan 16 04:56	0° ∀			11615 Dec 19 19:06	0° ≈	
evening max el	11615 Jan 20 22:19	4° ¥ 58'56	27°19'39	evening max el	11616 Jan 03 09:31	18° ≈ 02'05	27°31'43
retrograde	11615 Feb 03 11:46	12° ¥ 23′26		retrograde	11616 Jan 17 04:52	25° ≈ 22'13	
evening set	11615 Feb 10 06:24	9°) 51'38		evening set	11616 Jan 24 04:15	22° ≈ 58'47	
min. Earth dist.	11615 Feb 14 03:11	6° ¥ 18'04	0.64678 AU	min. Earth dist.	11616 Jan 27 22:08	19° ≈ 53'51	0.62793 AU
inferior conj	11615 Feb 16 13:03	3° ¥ 41′28	-0°40'21	inferior conj	11616 Jan 30 18:21	17° ≈ 08'43	-1°52'23
minimum elong	11615 Feb 16 14:16	3°) 38′10	0°39'26	minimum elong	11616 Jan 30 22:06	16° ≈ 59'38	1°50'19
asc. node	11615 Feb 18 14:08	1° ¥ 32'46		asc. node	11616 Feb 05 11:25	12° ≈ 32'28	
	11615 Feb 20 06:39	30° R ≈		morning rise	11616 Feb 06 18:20	11° ≈ 58'19	
morning rise	11615 Feb 22 23:55	28° ≈ 14'44		direct	11616 Feb 09 01:27	11° ≈ 33'44	
direct	11615 Feb 25 13:49	27° ≈ 40'11		morning max el	11616 Feb 15 16:42	14° ≈ 57'11	17°46'45
	11615 Mar 02 20:53	0° ∀			11616 Feb 26 05:02	0° ∀	
morning max el	11615 Mar 03 23:05	0°) 59'43	17°53'58	morning set	11616 Mar 02 17:52	9°) 36′04	
morning set	11615 Mar 21 07:46	26° ¥ 56'15		desc. node	11616 Mar 09 20:46	21°) 56'58	
C	11615 Mar 23 03:54	0° Y					
desc. node	11615 Mar 24 00:07	1° Y 23'56		superior conj	11616 Mar 14 15:26	0° Υ 00'15	-0°35'52
				minimum elong	11616 Mar 14 11:49	29°) (45'11	0°35'15
superior conj	11615 Apr 04 02:46	19° Ƴ 29'55	-1°17'21	C	11616 Mar 14 15:23	0° Y	
minimum elong	11615 Apr 03 18:39	18° Y 57'28	1°16'33	max. Earth dist.	11616 Mar 21 04:32	10° Ƴ 41'26	1.44185 AU
max. Earth dist.	11615 Apr 08 10:40	26° Y ′21'37	1.45304 AU	evening rise	11616 Mar 29 14:09	23° Y 53'38	
	11615 Apr 10 18:20	0°8		C	11616 Apr 02 13:57	0°8	
evening rise	11615 Apr 20 01:59	14° 8 25'28			11616 Apr 23 14:43	$\Pi^{\circ}0$	
C	11615 Apr 30 08:08	$\Pi^{\circ}0$		evening max el	11616 Apr 28 14:02	5° Ⅱ 41'17	21°03'00
greatest brilliancy	11615 May 04 20:39	6° Ⅱ 41'22	-0.6m	asc. node	11616 May 03 08:48	9° ∏ 33′20	
evening max el	11615 May 16 14:40	21° Ⅱ 55'42	19°56'27	retrograde	11616 May 07 02:51	10° ∏ 40′29	
asc. node	11615 May 17 11:34	22° II 46'25		evening set	11616 May 11 09:01	8° Ⅱ 58'50	
retrograde	11615 May 24 04:07	26° Ⅱ 15′00		inferior conj	11616 May 16 15:25	2° ∏ 47'07	3°07'37
evening set	11615 May 28 00:17	24° ∏ 49'29		minimum elong	11616 May 16 14:17	2° ∏ 51′06	3°06'51
inferior conj	11615 Jun 02 07:59	18° ∏ 49'49	3°15'35	min. Earth dist.	11616 May 17 01:21	2° ∏ 12'42	0.68445 AU
minimum elong	11615 Jun 02 07:47	18° Ⅱ 50′28	3°14'51		11616 May 18 16:32	30° ₹ 8	
min. Earth dist.	11615 Jun 03 07:38	17° Ⅲ 30′05	0.67682 AU	morning rise	11616 May 21 19:20	26° 8 30'36	
morning rise	11615 Jun 07 14:58	12° Ⅱ 29'16		direct	11616 May 27 01:46	24° 8 11'48	
direct	11615 Jun 13 10:06	9° Ⅱ 55'07		desc. node	11616 Jun 05 21:53	29° 8 46'27	
desc. node	11615 Jun 20 00:54	12° Ⅲ 28'47			11616 Jun 06 03:26	0°II	
morning max el	11615 Jun 25 05:01		24°55'58	morning max el	11616 Jun 06 15:01	0°∏28′52	23°26'56
-	11615 Jul 06 00:46	0∘ ©		-	11616 Jun 28 21:25	0°ಅ	
	11615 Jul 25 19:22	$0^{\circ}\Omega$		morning set	11616 Jul 11 13:21	20°513'34	
morning set	11615 Jul 31 02:39	9° Ω 09'12		max. Earth dist.	11616 Jul 15 14:05	27° © 07'47	1.39247 AU
max. Earth dist.	11615 Aug 03 16:34	15° Ω 37'19	1.36953 AU		11616 Jul 17 05:19	$0^{\circ}\Omega$	
	5		-				
superior conj	11615 Aug 10 07:54	28° Ω 14'56	-0°29'40	superior conj	11616 Jul 23 04:53	10° Ω 51'40	-1°03'37
minimum elong	11615 Aug 10 09:50	28° Ω 24'24		minimum elong	11616 Jul 23 09:19	11° Ω 12'21	
U	11615 Aug 11 05:16	0° my		asc. node	11616 Jul 30 08:03	24° Ω 27'20	
asc. node	11615 Aug 13 11:14	4° m/28'23		evening rise	11616 Aug 01 13:03	28° Ω 44'11	
evening rise	11615 Aug 18 16:06	14° m 57'49		C	11616 Aug 02 04:44	0° m y	

evening max el	11616 Aug 17 16:15	24° Mp 53'44	18°42'24	asc. node	11617 Jul 17 04:53	14° Ω 16′12	
retrograde	11616 Aug 25 21:28	29° Mp 00'53			11617 Jul 26 05:04	0° m)	
evening set	11616 Aug 27 20:12	28° mp 47'48		evening max el	11617 Aug 01 00:19	7° mp 31'02	18°13'16
desc. node	11616 Sep 01 19:55	26° m/32'31		retrograde	11617 Aug 08 03:53	11° m)08'21	
	•	24° m) 24'00	0057115	•	11617 Aug 10 09:30	10° mp 47'45	
inferior conj	11616 Sep 04 21:06	•		evening set	_		000000
minimum elong	11616 Sep 04 18:45	24° m 28'21	0°56'28	inferior conj	11617 Aug 17 15:23	6° Mp 03′32	
min. Earth dist.	11616 Sep 08 00:41	22° Mp 04'46	0.57093 AU	minimum elong	11617 Aug 17 16:37	6° Mg 00'52	0°36'49
morning rise	11616 Sep 12 13:56	19° m 20'33		desc. node	11617 Aug 19 17:17	4° m) 14'52	
direct	11616 Sep 18 08:51	17° m 58'25		min. Earth dist.	11617 Aug 20 23:23	3° Mp 11'20	0.59197 AU
morning max el	11616 Oct 02 15:45	25° m 25'20	26°33'55	morning rise	11617 Aug 24 20:21	0° m) 25'54	
morning max cr		~	20 33 33	morning risc	•		
	11616 Oct 06 22:30	0∘ ⊽			11617 Aug 25 15:28	30°R Ω	
asc. node	11616 Oct 26 09:12	0° M 34′21		direct	11617 Aug 31 04:52	28° Ω 34'48	
	11616 Oct 26 02:09	0°M₊			11617 Sep 05 23:44	0° ™	
morning set	11616 Oct 31 18:45	11°M38'33		morning max el	11617 Sep 14 13:32	6° m 22'59	27°34'46
Č				Ü	11617 Oct 02 05:52	0° ق	
aumorior comi	11616 Nov. 07 15:05	26°M41'36	1922152	asc. node		ა _ 20° ჲ 13'01	
superior conj	11616 Nov 07 15:05		1°33'53		11617 Oct 13 05:58		
minimum elong	11616 Nov 07 13:44	26°M34'05	1°34'23	morning set	11617 Oct 16 01:56	26° ≏ 04'04	
max. Earth dist.	11616 Nov 08 04:06	27°M53'58	1.31536 AU		11617 Oct 17 22:11	0°M₊	
	11616 Nov 09 02:47	0° ∡ 7		max. Earth dist.	11617 Oct 22 13:11	10°M09'49	1.31356 AU
evening rise	11616 Nov 14 12:24	11° ∡ ¹44'05					
evening rise	11616 Nov 23 20:05	0°る		superior conj	11617 Oct 23 02:47	11°M25'35	1°23'19
desc. node	11616 Nov 28 17:13	8° る 20'24		minimum elong	11617 Oct 23 00:46	11°M14'24	1°23'32
	11616 Dec 15 05:46	0° ≈		evening rise	11617 Oct 29 20:12	26° M 14'33	
evening max el	11616 Dec 15 15:58	0° ≈ 24'22	27°11'02		11617 Oct 31 14:45	0° ∡ ¹	
retrograde	11616 Dec 29 13:51	7° ≈ 37'19		desc. node	11617 Nov 15 14:23	27° ∡ ¹05'17	
•	11617 Jan 05 11:42	5° ≈ 30'43		dese. Hode	11617 Nov 17 14:17	0°중	
evening set			0.60500.433				0.001.011.0
min. Earth dist.	11617 Jan 09 06:25	2° ≈ 47'03	0.60702 AU	evening max el	11617 Nov 27 15:07	11° る 56'29	26°16'12
inferior conj	11617 Jan 12 09:41	0° ≈ 06'53	-3°10'11	retrograde	11617 Dec 11 13:32	19° る 01'36	
minimum elong	11617 Jan 12 16:13	29° る 52'55	3°07'08	evening set	11617 Dec 18 00:36	17° る 20'56	
•	11617 Jan 12 12:54	30°R₹		min. Earth dist.	11617 Dec 22 04:24	14°₹345'34	0.58570 AU
morning rise	11617 Jan 19 23:33	25° පි 16'06		inferior conj	11617 Dec 25 07:32	12° ろ 26'28	
morning rise				3			
direct	11617 Jan 22 02:30	24° ろ 57'58		minimum elong	11617 Dec 25 15:49	12° る 11'05	4°23'21
asc. node	11617 Jan 22 08:41	24° る 58'14		morning rise	11618 Jan 02 09:47	7° る 57'41	
morning max el	11617 Jan 29 07:56	28° る 35'06	17°57'56	direct	11618 Jan 04 12:37	7°る42'33	
•	11617 Jan 30 16:01	0° ≈		asc. node	11618 Jan 09 05:51	9° ට 02'18	
morning set	11617 Feb 13 22:13	23°≈06'44		morning max el	11618 Jan 12 17:05	11° る 43'14	18°20'02
morning set				morning max ci			10 29 02
	11617 Feb 17 16:22	0° ∀			11618 Jan 24 20:20	0° ≈	
				morning set	11618 Jan 28 15:24	7°≈12'15	
superior conj	11617 Feb 24 04:51	11°) 40′22	0°04'05				
minimum elong	11617 Feb 24 05:13	11°) 41'58	0°04'20	superior conj	11618 Feb 06 15:54	24° ≈ 21'01	0°37'59
behind sun begin	11617 Feb 23 21:24	11° ¥ 07'46		minimum elong	11618 Feb 06 18:23	24° ≈ 32'28	0°38'05
•		12° € 16'05		minimum ciong		0° ∀	0 30 03
behind sun end	11617 Feb 24 13:01				11618 Feb 09 18:14		
desc. node	11617 Feb 24 17:25	12° ∺ 35′18		desc. node	11618 Feb 11 14:07	3° ∺ 15'39	
max. Earth dist.	11617 Mar 03 18:08	24°) €31'32	1.42490 AU	max. Earth dist.	11618 Feb 14 02:47	7°) 40′39	1.40414 AU
	11617 Mar 07 02:34	$0^{\circ}\Upsilon$		evening rise	11618 Feb 18 09:40	14° ¥ 55'53	
evening rise	11617 Mar 09 13:55	3° Ƴ 57'27			11618 Feb 27 20:56	0° Y	
evening rise		0°8				0°8	
	11617 Mar 26 22:19		22010114		11618 Mar 21 21:26		22020144
evening max el	11617 Apr 11 08:11	19° 8 27'12	22°19'14	evening max el	11618 Mar 24 23:00	3° 8 15'40	23°39'44
asc. node	11617 Apr 20 06:05	25° 8 07'10		retrograde	11618 Apr 04 18:55	9° 8 38'41	
retrograde	11617 Apr 21 00:15	25° 8 09'55		asc. node	11618 Apr 07 03:23	9° 8 12'49	
evening set	11617 Apr 25 17:16	23° 8 12'57		evening set	11618 Apr 09 23:26	7° と 27'59	
inferior conj	11617 May 01 00:36	16° 8 51'29	2°49'06	inferior conj	11618 Apr 15 09:36	0° 8 59'58	2°20'45
					-		
minimum elong	11617 Apr 30 22:46	16° 8 57'51	2°48'15	minimum elong	11618 Apr 15 07:27	1° 8 07'22	
min. Earth dist.	11617 Apr 30 21:38	17° 8 01'50	0.68744 AU	min. Earth dist.	11618 Apr 14 18:21	1° 8 52'13	0.68598 AU
morning rise	11617 May 06 04:09	10° 8 40'24			11618 Apr 16 03:11	30° ŖƳ	
direct	11617 May 10 21:14	8° 8 41'17		morning rise	11618 Apr 20 15:26	24° Y 55'33	
morning max el	11617 May 20 03:40	14° 8 06'26	21°58'36	direct	11618 Apr 24 19:29	23° Y °17'44	
desc. node		18° 8 05'00	2. 5550		-	27° Υ 54'45	20°38'30
uesc. noue	11617 May 23 18:47			morning max el	11618 May 02 22:02		20 38 30
	11617 Jun 01 22:10	Π °0			11618 May 04 21:26	0°8	
morning set	11617 Jun 21 22:25	0° © 08'16		desc. node	11618 May 10 15:36	7° 8 08'10	
	11617 Jun 21 20:21	0 \circ \odot			11618 May 26 10:43	$\Pi^{\circ}0$	
max. Earth dist.	11617 Jun 27 14:24	9° 5 24'03	1.41504 AU	morning set	11618 Jun 01 07:32	9° Ⅱ 00'08	
Zaran dist.	-101, Juli 2/ 17.27	, -2703	1201710	max. Earth dist.	11618 Jun 09 20:49	22° Ⅱ 31'39	1.43459 AU
	11/17 1 1 05 07 50	2206226150	1025152	man. Darui Uist.			1. 4 5457 AU
superior conj	11617 Jul 05 07:28	22° © 36'58			11618 Jun 14 10:43	0 \circ 60	
minimum elong							
_	11617 Jul 05 13:56	23° © 05'28	1°35'49				
	11617 Jul 05 13:56 11617 Jul 09 10:39	23°€05'28 0° Ω	1°35'49	superior conj	11618 Jun 16 11:30	3° © 22'34	-2°01'16
evening rise			1°35'49	superior conj minimum elong	11618 Jun 16 11:30 11618 Jun 16 17:33	3°\$22'34 3°\$47'47	

		.					
evening rise	11618 Jun 28 17:17	24° © 27'45		asc. node	11619 Jun 20 22:43	23° © 04'34	
	11618 Jul 01 20:50	$0^{\circ}\Omega$			11619 Jun 25 16:14	0 $^{\circ}\Omega$	
asc. node	11618 Jul 04 01:46	3° Ω 50′26		evening max el	11619 Jun 29 03:10	4° Ω 02'28	18°13'00
evening max el	11618 Jul 15 13:09	20° Ω 36'58	18°03'49	retrograde	11619 Jul 05 11:43	7° Ω 24'01	
retrograde	11618 Jul 22 02:05	23° Ω 59'10		evening set	11619 Jul 08 09:34	6° Ω 38'45	
evening set	11618 Jul 24 15:45	23° Ω 27'32		inferior conj	11619 Jul 14 09:52	1° Ω 17'14	
inferior conj	11618 Jul 31 04:58	18° Ω 23'50	1°48'14	minimum elong	11619 Jul 14 12:19	1° Ω 10′21	2°34'17
minimum elong	11618 Jul 31 07:34	18° Ω 17'20	1°46'53		11619 Jul 15 13:17	30° ₹ 🥯	
min. Earth dist.	11618 Aug 03 06:41	15° Ω 21'15	0.61478 AU	min. Earth dist.	11619 Jul 16 23:14	28° © 26'05	0.63658 AU
morning rise	11618 Aug 06 20:51	12° Ω 22'19		morning rise	11619 Jul 20 13:31	25° © 01'59	
desc. node	11618 Aug 06 14:37	12° Ω 33'11		desc. node	11619 Jul 24 11:53	22° © 52'24	
direct	11618 Aug 13 12:41	10° Ω 05′00		direct	11619 Jul 27 05:45	22° 5 26'54	
morning max el	11618 Aug 27 17:51	18° Ω 05'15	27°57'37		11619 Aug 09 15:06	0 $^{\circ}$ Ω	
	11618 Sep 06 17:30	0° m		morning max el	11619 Aug 10 02:38	0° Ω 28'42	27°42'42
	11618 Sep 25 00:46	0∘ ⊽			11619 Aug 31 19:20	0° m)	
morning set	11618 Sep 30 03:56	10° ഫ 11'38		morning set	11619 Sep 13 22:30	23° m 55'25	
asc. node	11618 Sep 30 02:41	10° ≙ 05'10		asc. node	11619 Sep 16 23:22	0° ഫ 06'00	
max. Earth dist.	11618 Oct 05 19:57	22° £ 15'57	1.31685 AU		11619 Sep 16 22:12	0° ∿	
				max. Earth dist.	11619 Sep 18 20:50	4° £ 03'53	1.32532 AU
superior conj	11618 Oct 07 13:00	26° ₽ 01'29	1°07'18		•		
minimum elong	11618 Oct 07 10:45	25° ≏ 49'04	1°07'12	superior conj	11619 Sep 21 19:51	10° £ 23'45	0°46'00
Č	11618 Oct 09 08:09	0°M		minimum elong	11619 Sep 21 17:54	10° £ 13'11	0°45'41
evening rise	11618 Oct 14 06:42	10°ML49'59		evening rise	11619 Sep 28 18:03	25° £ 25'18	
	11618 Oct 23 22:00	0° ∡ 7		0.00000	11619 Sep 30 22:01	0°M	
desc. node	11618 Nov 02 11:38	14° ₹ 54'24			11619 Oct 19 01:17	0° ∡ 7	
evening max el	11618 Nov 09 06:08	22° ₹ 38'04	24°52'13	desc. node	11619 Oct 20 08:55	1° × 726'44	
retrograde	11618 Nov 23 01:34	29° х 33'14	24 32 13	evening max el	11619 Oct 20 08:33	2°×746'55	23°12'21
evening set	11618 Nov 28 14:21	28° × ⁷ 24'48		retrograde	11619 Nov 04 00:24	9° ×7 24'47	23 12 21
min. Earth dist.	11618 Dec 03 17:58	25° × 24 46	0.56648 AU	evening set	11619 Nov 04 00:24 11619 Nov 08 04:36	8° x ⁷ 46'56	
inferior conj		23° 🖈 40 10		min. Earth dist.		5° ₹ 34'56	0.55234 AU
,	11618 Dec 06 09:05				11619 Nov 15 02:06		
minimum elong	11618 Dec 06 15:35	23° х 47′52	3 23 08	inferior conj	11619 Nov 16 14:58	4° 🗷 41'32	
morning rise	11618 Dec 14 19:02	19° 🖈 51'13		minimum elong	11619 Nov 16 14:29	4° 🖈 42'13	5-49-34
direct	11618 Dec 17 04:08	19° 🖈 35'22	10001157	morning rise	11619 Nov 25 02:02	0° ₹ 50'51	
morning max el	11618 Dec 26 16:03	24° ₹ 09'05	19°21'57	direct	11619 Nov 28 01:04	0° ₹ 129'58	20025140
asc. node	11618 Dec 27 02:57	24° ₹ 35'56		morning max el	11619 Dec 09 01:35	5° ∡ ¹43'46	20°37'49
	11618 Dec 31 13:40	0°る		asc. node	11619 Dec 13 23:59	11° ∡ ¹24'03	
morning set	11619 Jan 12 17:12	21° る 39'28			11619 Dec 24 21:40	0° る	
	11619 Jan 16 21:05	0° ≈		morning set	11619 Dec 28 00:32	6° る 19'44	
	11610 7 20 10 10	5 0 45 11 6	100.412.0		11/20 7 04 11 10	210716155	1000150
superior conj	11619 Jan 20 19:42	7° ≈ 47'16		superior conj	11620 Jan 04 11:49	21°る46'57	
minimum elong	11619 Jan 20 22:39	8°≈01'41	1°04'34	minimum elong	11620 Jan 04 14:16	21° る 59'21	1°23'26
max. Earth dist.	11619 Jan 27 08:49	20°≈08'22	1.38192 AU		11620 Jan 08 14:26	0° ≈	
desc. node	11619 Jan 29 10:51	23° ≈ 53'41		max. Earth dist.	11620 Jan 09 16:59	2° ≈ 09'08	1.36067 AU
evening rise	11619 Jan 31 02:38	26°≈49'07		evening rise	11620 Jan 13 14:20	9° ≈ 29'51	
	11619 Feb 01 22:46	0° ∀		desc. node	11620 Jan 16 07:39	14° ≈ 25'37	
	11619 Feb 21 09:32	0° Υ			11620 Jan 25 14:25	0° ∀	
evening max el	11619 Mar 07 12:34	17° Y 06'42	24°58'09		11620 Feb 17 03:31	0° Y	
retrograde	11619 Mar 19 09:33	24° Y 00′57		evening max el	11620 Feb 18 02:10	0° Y 56′16	26°07'16
evening set	11619 Mar 25 02:00	21° Y 38'53		retrograde	11620 Mar 01 19:11	8° Y 10′24	
asc. node	11619 Mar 25 00:42	21° Y 41'38		evening set	11620 Mar 07 23:16	5° Ƴ 40′16	
min. Earth dist.	11619 Mar 29 13:14	16° Ƴ 38'28	0.68015 AU	asc. node	11620 Mar 10 22:02	2° Ƴ 43'53	
inferior conj	11619 Mar 30 16:31	15° Y 08'39	1°42'44	min. Earth dist.	11620 Mar 12 04:03	1° Y 14'51	0.67018 AU
minimum elong	11619 Mar 30 14:30	15° Ƴ 15′20	1°41'56		11620 Mar 13 04:18	30° ₹ ₩	
morning rise	11619 Apr 05 03:15	9° Ƴ 12'18		inferior conj	11620 Mar 13 19:24	29° ∺ 13′02	0°54'56
direct	11619 Apr 08 19:03	7° Y 55'23		minimum elong	11620 Mar 13 18:04	29° ∺ 17'10	0°54'31
morning max el	11619 Apr 15 23:59	11° Y 54'27	19°31'41	morning rise	11620 Mar 19 13:35	23° ∺ 26'34	
desc. node	11619 Apr 27 12:21	26° Ƴ 43'47		direct	11620 Mar 22 18:15	22° ∺ 28'36	
greatest brilliancy	11619 Apr 28 16:36	28° Ƴ 27'12	-0.7m	morning max el	11620 Mar 29 09:19	26° ₩ 02'35	18°40'35
	11619 Apr 29 17:45	9° 8			11620 Apr 01 21:20	0 ° Υ	
morning set	11619 May 11 07:19	17° 8 32'28		desc. node	11620 Apr 13 09:02	16° Ƴ 42'57	
	11619 May 19 08:11	Π $^{\circ}$ 0		morning set	11620 Apr 19 20:40	26° Ƴ 50′21	
max. Earth dist.	11619 May 23 10:08	6° Ⅱ 24'48	1.44887 AU	-	11620 Apr 21 21:07	9° 8	
	ş : -			max. Earth dist.	11620 May 05 04:33	20° 8 48'16	1.45636 AU
superior conj	11619 May 27 15:41	13° Ⅱ 08'18	-2°13'07		3 · · · · · · · · · · · · · · · · · · ·		-
minimum elong	11619 May 27 16:43	13° Ⅱ 12'29		superior conj	11620 May 06 01:59	22° 8 12'07	-2°05'40
	11619 Jun 06 23:59	0ංම 		minimum elong	11620 May 05 19:33	21° 8 46'58	
evening rise	11619 Jun 10 15:08	6°903'14			11620 May 11 01:15	0°II	-
	10 10.00	00 11					

	11624 Feb 14 23:04	0°) €		superior conj	11625 Jan 30 02:37	17° ≈ 18'16	0°50'09
				minimum elong	11625 Jan 30 05:27	17° ≈ 31'42	0°50'16
superior conj	11624 Feb 17 07:55	4°) (17′02	0°19'21	desc. node	11625 Feb 05 16:23	29° ≈ 21'41	
minimum elong	11624 Feb 17 09:24	4°) €23'43	0°19'29		11625 Feb 06 01:01	0° ∀	
desc. node	11624 Feb 19 19:41	8°) 42′13		max. Earth dist.	11625 Feb 06 06:26	0°) 23′54	1.39468 AU
max. Earth dist.	11624 Feb 24 22:54	17°) €31'40	1.41644 AU	evening rise	11625 Feb 10 04:50	7°) 12′10	
evening rise	11624 Mar 01 00:02	25°) € 50'43			11625 Feb 24 14:37	0° Y	
	11624 Mar 03 14:25	0° Y		evening max el	11625 Mar 17 05:39	26° Y 29'14	24°13'48
	11624 Mar 24 01:44	9° 8			11625 Mar 21 04:55	0° 8	
evening max el	11624 Apr 03 15:38	12° 8 39'43	22°53'21	retrograde	11625 Mar 28 12:28	3° 8 06'31	
retrograde	11624 Apr 13 19:30	18° 8 39'38		asc. node	11625 Apr 01 05:53	2° 8 03'03	
asc. node	11624 Apr 14 08:35	18° 8 38'13		evening set	11625 Apr 02 22:12	0° 8 50'24	
evening set	11624 Apr 18 17:23	16° 8 36'41			11625 Apr 03 19:59	30° ŖƳ	
min. Earth dist.	11624 Apr 23 17:32	10° 8 40'43	0.68741 AU	min. Earth dist.	11625 Apr 07 13:35	25° Y 30′03	0.68401 AU
inferior conj	11624 Apr 24 01:45	10° 8 12'15	2°38'15	inferior conj	11625 Apr 08 10:03	24° Y ′21′00	2°05'48
minimum elong	11624 Apr 23 23:44	10° 8 19'15	2°37'22	minimum elong	11625 Apr 08 07:53	24° Y ′28'19	2°04'56
morning rise	11624 Apr 29 05:57	4° 8 03'58		morning rise	11625 Apr 13 17:40	18° Y ′20′07	
direct	11624 May 03 17:33	2° 8 13'40		direct	11625 Apr 17 16:24	16° Y 51′26	
morning max el	11624 May 12 11:15	7° 8 16'49	21°23'09	morning max el	11625 Apr 25 08:50	21° Y 10'30	20°08'23
desc. node	11624 May 17 21:05	13° 8 26'03			11625 May 02 17:50	0°8	
	11624 May 29 21:59	0°П		desc. node	11625 May 04 17:52	2° 8 44'13	
morning set	11624 Jun 12 22:47	21° Ⅱ 20′12		morning set	11625 May 23 01:27	29° 8 57'00	
The state of	11624 Jun 18 08:32	0°€	1 40005 4 7 7	F 4 F	11625 May 23 02:14	0°II	
max. Earth dist.	11624 Jun 19 16:58	2° © 12'35	1.42395 AU	max. Earth dist.	11625 Jun 02 03:03	15°Щ43'32	1.44144 AU
	11/24 1 27 02 42	1.40€20120	1047151		11/25 1 07 20 24	240TF0126	2000122
superior conj	11624 Jun 27 02:42	14°539'20		superior conj	11625 Jun 07 20:24	24° Ⅱ 58'36	
minimum elong	11624 Jun 27 09:26	15° © 08'19 0° Ω	1°4/'56	minimum elong	11625 Jun 08 00:56	25° Ⅱ 17'07	2°08'54
	11624 Jul 05 19:13	0°37 4°Ω42'29			11625 Jun 10 21:31	0°95	
evening rise	11624 Jul 08 09:40	9° Ω 57'02		evening rise	11625 Jun 20 19:55	16°950'59	
asc. node	11624 Jul 11 07:15 11624 Jul 24 07:32			asc. node	11625 Jun 28 04:09 11625 Jun 28 12:55	29° © 23'37 0° Ω	
evening max el	11624 Jul 24 07.32 11624 Jul 24 16:25	0° Т р 0° Т р 22'26	18°06'51	evening max el	11625 Jul 08 06:06	13° Ω 37'27	18°05'23
retrograde	11624 Jul 31 12:17	3° Mp 51'24	18 00 31	retrograde	11625 Jul 14 16:03	$16^{\circ}\Omega 57'56$	18 03 23
evening set	11624 Aug 02 21:22	3°My 26'21		evening set	11625 Jul 17 09:08	16° Ω 20'47	
evening set	11624 Aug 08 05:13	30°RΩ		inferior conj	11625 Jul 23 16:22	10° Ω 09'01	2°10'55
inferior conj	11624 Aug 09 19:43	28° Ω 33'18	1°10'36	minimum elong	11625 Jul 23 19:02	11° Ω 01'58	2°09'35
minimum elong	11624 Aug 09 21:46	28° Ω 28'33	1°09'27	min. Earth dist.	11625 Jul 26 13:11	8° Ω 09'00	0.62432 AU
min. Earth dist.	11624 Aug 13 01:56	25° Ω 34'12	0.60171 AU	morning rise	11625 Jul 30 02:50	5° Ω 00'15	0.02.02.110
desc. node	11624 Aug 13 19:45	24° Ω 56′01		desc. node	11625 Jul 31 17:04	3° Ω 58'47	
morning rise	11624 Aug 16 19:10	22° Ω 44'24		direct	11625 Aug 05 19:24	2° Ω 34'28	
direct	11624 Aug 23 07:39	20° Ω 41'43		morning max el	11625 Aug 19 22:00	10° Ω 36'50	27°55'41
morning max el	11624 Sep 06 15:11	28° Ω 35′07	27°49'16		11625 Sep 04 02:38	0° m	
-	11624 Sep 08 00:30	0° m			11625 Sep 21 07:05	0∘ ⊽	
	11624 Sep 28 23:31	0∘ ⊽		morning set	11625 Sep 22 23:48	3° ≏ 24'42	
asc. node	11624 Oct 07 08:16	15° ≏ 57'46		asc. node	11625 Sep 24 04:59	5° ≏ 54'21	
morning set	11624 Oct 09 00:37	19° ≏ 26'12		max. Earth dist.	11625 Sep 28 08:22	14° ≙ 40'05	1.31984 AU
	11624 Oct 13 22:31	0° M					
max. Earth dist.	11624 Oct 15 03:28	2°M39'48	1.31442 AU	superior conj	11625 Sep 30 13:34	19° ≏ 29'33	
				minimum elong	11625 Sep 30 11:22	19° ≏ 17'31	0°58'41
superior conj	11624 Oct 16 04:32	4° ™ 58'49	1°17'10		11625 Oct 05 08:20	0°M	
minimum elong	11624 Oct 16 02:22	4° ™ 46'46	1°17'15	evening rise	11625 Oct 07 08:40	4° ጤ 22'14	
evening rise	11624 Oct 22 21:34	19° M 46'11			11625 Oct 20 20:40	0° ∡ ¹	
	11624 Oct 27 19:52	0° ∡ ¹		desc. node	11625 Oct 27 14:05	9° ∡ ¹26′09	
desc. node	11624 Nov 09 16:50	22° ∡ ¹06'32		evening max el	11625 Nov 01 01:08	14° ∡ 18′20	24°10'32
	11624 Nov 15 19:31	0°る	25042110	retrograde	11625 Nov 14 16:57	21° ×7 08'12	
evening max el	11624 Nov 19 13:03	3°る54'35	25°43'19	evening set	11625 Nov 19 16:59	20° 🗷 13'14	0.550(2.44)
retrograde	11624 Dec 03 10:19	10°る55'04 9°る27'38		min. Earth dist.	11625 Nov 25 12:04	17° 🗷 19'19	
evening set	11624 Dec 09 13:37		0.57712 AII	inferior conj	11625 Nov 27 17:58	15° x 56'45	
min. Earth dist.	11624 Dec 14 01:27	6°550'52 4° 5 46'04	0.57713 AU	minimum elong	11625 Nov 27 22:05	15° х 50′26 11° х 58′09	3 41 38
inferior conj minimum elong	11624 Dec 17 01:10 11624 Dec 17 09:17	4°る46'04 4°る31'53		morning rise direct	11625 Dec 06 05:15 11625 Dec 08 19:20	11° x ′58′09 11° x ′40′48	
morning rise	11624 Dec 17 09:17 11624 Dec 25 07:26	4° る 31°33 0° る 26'41	+ 3434	morning max el	11625 Dec 08 19:20 11625 Dec 18 22:32	11° × ′40′48 16° × ′30′28	19°51'35
direct	11624 Dec 25 07:26 11624 Dec 27 12:16	0°る2641 0°る11'35		asc. node	11625 Dec 18 22:32 11625 Dec 21 05:23	18° x ' 55'48	17 31 33
asc. node	11625 Jan 03 08:17	0 311 33 2° 3 47'59		use. Houc	11625 Dec 28 18:23	0° ろ	
morning max el	11625 Jan 05 04:53	4°る24'54	18°48'51	morning set	11626 Jan 05 16:55	0 8 15° る 12'39	
morning max or	11625 Jan 21 04:33	0°≈	10 .001		11626 Jan 12 23:58	0°≈	
morning set	11625 Jan 21 12:26	0°≈38'32			12 25.50	÷ · • ·	

superior conj	11626 Jan 13 12:12	1°≈00'52	1°13'09		11626 Dec 21 02:36	0°ಕ	
minimum elong	11626 Jan 13 15:02	1°≈14'55	1°13'29				
max. Earth dist.	11626 Jan 19 12:39	12° ≈ 37'48	1.37254 AU	superior conj	11626 Dec 28 08:29	15° ට 11'57	1°28'37
evening rise	11626 Jan 23 06:11	19° ≈ 26'54		minimum elong	11626 Dec 28 10:31	15° ප 22'31	1°29'12
desc. node	11626 Jan 23 13:08	19° ≈ 57'55		max. Earth dist.	11627 Jan 01 22:40	24° ප 31'16	1.35235 AU
	11626 Jan 29 08:59	0°)			11627 Jan 04 18:10	0° ≈	
	11626 Feb 18 17:42	0° Y		evening rise	11627 Jan 06 00:50	2° ≈ 25'34	
evening max el	11626 Feb 27 18:56	10° Ƴ 19'46	25°29'07	desc. node	11627 Jan 10 09:57	10° ≈ 26′10	
retrograde	11626 Mar 12 01:14	17° Y ′24'39			11627 Jan 22 08:39	0° ∀	
evening set	11626 Mar 17 22:45	14° Ƴ 58'21		evening max el	11627 Feb 10 08:31	24°) €06'19	26°32'06
asc. node	11626 Mar 19 03:12	13° Y 52'43			11627 Feb 18 01:51	0 ° $\mathbf{\Upsilon}$	
min. Earth dist.	11626 Mar 22 07:00	10° Y 13′03	0.67636 AU	retrograde	11627 Feb 23 08:44	1° Y 26′24	
inferior conj	11626 Mar 23 15:30	8° Y 28'31	1°23'42		11627 Feb 28 04:18	30° ₹ ₩	
minimum elong	11626 Mar 23 13:42	8° Ƴ 34'20	1°23'00	evening set	11627 Mar 01 17:14	28° ¥ 54'17	
morning rise	11626 Mar 29 05:06	2° Y 36′18		min. Earth dist.	11627 Mar 05 19:33	24°) 43′17	0.66468 AU
direct	11626 Apr 01 15:55	1° Y 27'58		asc. node	11627 Mar 06 00:33	24° ∺ 28′29	
morning max el	11626 Apr 08 14:10	5° Y 15′01	19°08'00	inferior conj	11627 Mar 07 16:01	22°) €29'47	0°31'43
greatest brilliancy	11626 Apr 21 15:30	22° Y 34'16	-0.7m	minimum elong	11627 Mar 07 15:11	22°) € 32'16	0°31'33
desc. node	11626 Apr 21 14:36	22° Y 30′55		morning rise	11627 Mar 13 14:08	16°) 48′01	
	11626 Apr 26 12:54	0°8		direct	11627 Mar 16 14:20	15° ¥ 57′21	10000150
morning set	11626 May 02 04:19	8° 8 41'22		morning max el	11627 Mar 23 02:06	19°) €24'56	18°23'50
E 41 E 4	11626 May 15 20:55	0°II	1 45201 ATT	1 1	11627 Mar 31 07:43	0° Υ 12° Υ 38'03	
max. Earth dist.	11626 May 15 18:28	29° 8 50'21	1.45291 AU	desc. node	11627 Apr 08 11:17	12°° Y '38'03	
aumorior coni	11626 May 18 15:37	4° Ⅱ 22'41	2012/20	morning set	11627 Apr 12 04:31 11627 Apr 19 10:22	0°8	
superior conj	11626 May 18 13:37	4 II 2241 4° II 14'00			1102/ Apr 19 10.22	0.0	
minimum elong	11626 May 18 13:25 11626 Jun 02 07:50	28° Д 01'11	2-1307	aumorior coni	11627 Apr. 27 22:46	13° 8 21'31	1956192
evening rise	11626 Jun 03 12:48	28 п ог гг 0° ©		superior conj minimum elong	11627 Apr 27 22:46 11627 Apr 27 14:13	13 8 2131	
asc. node	11626 Jun 15 01:07	18° 9 27'11		max. Earth dist.	11627 Apr 27 14:13 11627 Apr 28 13:22	14° 8 18'34	1.45723 AU
evening max el	11626 Jun 21 19:37	27°908'31	18°22'19	max. Lartii dist.	11627 Apr 28 13:22 11627 May 08 14:14	0°II	1.43723 AU
evening max er	11626 Jun 25 16:50	0°Ω	10 22 17	evening rise	11627 May 13 19:36	8° Ⅱ 12'10	
retrograde	11626 Jun 28 05:22	0° Ω 34'20		greatest brilliancy	11627 May 23 15:39	23° II 36'55	-0.8m
retrograde	11626 Jun 30 17:06	30°RS		greatest stimately	11627 May 27 20:54	0°95	0.0111
evening set	11626 Jul 01 06:34	29° © 42'57		asc. node	11627 Jun 01 22:11	6°959'52	
inferior conj	11626 Jul 07 02:35	24°9514'24	2°49'23	evening max el	11627 Jun 05 06:20	10°549'04	18°56'50
minimum elong	11626 Jul 07 04:43	24° © 08'11	2°48'16	retrograde	11627 Jun 12 00:30	14°533'02	
min. Earth dist.	11626 Jul 09 09:53	21° © 33'15	0.64505 AU	evening set	11627 Jun 15 10:13	13°9526'04	
morning rise	11626 Jul 13 01:36	17° © 55'31		inferior conj	11627 Jun 20 22:40	7°5542'17	3°09'53
desc. node	11626 Jul 18 14:19	15° © 19'48		minimum elong	11627 Jun 20 23:46	7° 5 38'49	3°09'01
direct	11626 Jul 19 16:06	15°515'49		min. Earth dist.	11627 Jun 22 15:06	5°534'22	0.66230 AU
morning max el	11626 Aug 02 08:05	23° © 15'43	27°25'59	morning rise	11627 Jun 26 12:39	1°520'12	
	11626 Aug 08 07:47	$0^{\circ}\Omega$			11627 Jun 28 07:30	30° Ŗ Ⅱ	
	11626 Aug 28 10:16	0° m		direct	11627 Jul 02 20:05	28° Ⅲ 37'32	
morning set	11626 Sep 06 14:24	16° m 56'32		desc. node	11627 Jul 05 11:30	29° Ⅱ 02'09	
max. Earth dist.	11626 Sep 11 05:34	26° Mp 17^\prime 40	1.33046 AU		11627 Jul 07 19:24	0 \circ \odot	
asc. node	11626 Sep 11 01:41	25° m 57'35		morning max el	11627 Jul 15 18:54	6°\$20'20	26°27'20
	11626 Sep 13 00:06	0∘ ⊽			11627 Aug 03 00:53	$0 {\circ} \Omega$	
				morning set	11627 Aug 20 17:15	29° Ω 53'43	
superior conj	11626 Sep 14 18:20	3° ≙ 44'10			11627 Aug 20 18:35	0° m	
minimum elong	11626 Sep 14 16:42	3° Ω 35'25	0°35'05	max. Earth dist.	11627 Aug 24 16:40	7° m/32'25	1.34620 AU
evening rise	11626 Sep 21 19:49	18° ≙ 55'40		asc. node	11627 Aug 28 22:24	16° Mp 03'43	
	11626 Sep 27 05:11	0°M,	22220124		11/07 1 00 1/00	1507 26145	0005110
evening max el	11626 Oct 13 12:03	24°M23'05	22°29'24	superior conj	11627 Aug 29 16:30	17° Mp 36'47	0°07'19
desc. node	11626 Oct 14 11:24	25°M18'07		minimum elong	11627 Aug 29 16:06	17° Mp 34'45	0°07'01
	11626 Oct 21 19:55	0° ⊀¹ 0° ⋅₹50100		behind sun begin	11627 Aug 29 10:46	17° Mp 07'16	
retrograde evening set	11626 Oct 26 11:22 11626 Oct 30 00:16	0° х 50'00 0° х 22'31		behind sun end	11627 Aug 29 21:27 11627 Sep 04 14:37	18° ™ 02'17 0° ≏	
evening set	11626 Oct 31 06:57	30°RM		ovonina rico	•	ა 3° 21'29	
min. Earth dist.	11626 Nov 06 19:26	26°M53'19	0.54844 AU	evening rise	11627 Sep 06 05:07 11627 Sep 21 04:10	0°M	
inferior conj	11626 Nov 07 17:12	26°M22'31		evening max el	11627 Sep 21 04:10 11627 Sep 25 07:14	4°M46'20	20°56'26
minimum elong	11626 Nov 07 17:12 11626 Nov 07 13:00	26°M28'28	5°42'56	desc. node	11627 Sep 23 07.14 11627 Oct 01 08:46	9°M14'00	20 30 20
morning rise	11626 Nov 16 03:13	20°M34'57	3 12 30	retrograde	11627 Oct 01 08:40 11627 Oct 06 22:29	10°M32'48	
direct	11626 Nov 19 09:33	22°M10'48		evening set	11627 Oct 00 22:29 11627 Oct 09 07:08	10°M19'33	
morning max el				•			
	11626 Dec 01 02:14	27°ML43'35	21°16'46	inferior coni	11627 Oct 18 09:03	6°11L24'51	-4°46'37
	11626 Dec 01 02:14 11626 Dec 03 07:18	27° M .43'35 0° √	21°16'46	inferior conj minimum elong	11627 Oct 18 09:03 11627 Oct 17 23:15	6°M24'51 6°M38'45	-4°46'37 4°43'48
asc. node			21°16'46				
asc. node morning set	11626 Dec 03 07:18	0° ∡ ¹	21°16'46	minimum elong	11627 Oct 17 23:15	6° M 38'45	4°43'48

direct	11627 Oct 30 17:46	1° M .54'47			11628 Nov 02 21:55	0°M	
morning max el	11627 Nov 12 17:51	8°M10'27	22°59'27	asc. node	11628 Nov 10 20:17	13°M04'21	
asc. node	11627 Nov 24 23:23	24°ML18'08	22 3721	morning set	11628 Nov 19 01:05	29°M29'34	
asc. node	11627 Nov 24 25:25 11627 Nov 28 04:50	0° ₹		morning set	11628 Nov 19 06:45	0° √	
morning set	11627 Dec 05 13:13	14° × 743'46			110201107 17 00.15	· ,	
morning sec	1102/ 200 00 10:10	1.7.15.10		superior conj	11628 Nov 25 20:38	14° ₹ 23'40	1°39'03
superior conj	11627 Dec 12 12:10	29° х 42′09	1°37'03	minimum elong	11628 Nov 25 20:24	14° ₹ 22'27	1°39'45
minimum elong	11627 Dec 12 13:06	29° ∡ ¹47'08	1°37'47	max. Earth dist.	11628 Nov 27 17:48	18° ∡ ³30′27	1.32346 AU
C	11627 Dec 12 15:30	ರ°0		evening rise	11628 Dec 03 03:49	29° ₹ 57'58	
max. Earth dist.	11627 Dec 15 16:21	6° පි 25'41	1.33573 AU	-	11628 Dec 03 04:13	8°0	
evening rise	11627 Dec 20 09:11	15° る 58'52		desc. node	11628 Dec 14 03:51	20° る 38'27	
	11627 Dec 27 21:23	0° ≈			11628 Dec 19 22:28	0° ≈	
desc. node	11627 Dec 28 06:52	0° ≈ 41'40		evening max el	11629 Jan 05 09:37	20° ≈ 48′00	27°31'55
	11628 Jan 16 22:15	0° ∀		retrograde	11629 Jan 19 04:14	28° ≈ 09'11	
evening max el	11628 Jan 23 22:00	7°) 39′52	27°15'20	evening set	11629 Jan 26 03:20	25° ≈ 43'50	
retrograde	11628 Feb 06 09:59	15°) €04'04		min. Earth dist.	11629 Jan 29 21:24	22° ≈ 35'13	0.63089 AU
evening set	11628 Feb 13 03:36	12°) 31′47		inferior conj	11629 Feb 01 16:19	19° ≈ 50′26	-1°41'00
min. Earth dist.	11628 Feb 17 01:03	8° ¥ 53'35		minimum elong	11629 Feb 01 19:39	19° ≈ 42'13	1°39'05
inferior conj	11628 Feb 19 09:13	6° ∺ 19'21		asc. node	11629 Feb 06 19:13	15° ≈ 30'18	
minimum elong	11628 Feb 19 10:06	6° ¥ 16'54	0°29'23	morning rise	11629 Feb 08 14:16	14° ≈ 37'33	
asc. node	11628 Feb 20 21:55	4°) 40′30		direct	11629 Feb 10 22:16	14° ≈ 11'43	
morning rise	11628 Feb 25 18:16	0° ¥ 50′28		morning max el	11629 Feb 17 12:05	17° ≈ 33'49	17°46'43
direct	11628 Feb 28 09:26	0°) 14′02			11629 Feb 26 11:42	0° ∀	
morning max el	11628 Mar 05 18:21	3°) (33′39	17°56'34	morning set	11629 Mar 05 16:33	12°) 19'33	
morning set	11628 Mar 23 09:43	29°) (48′44		desc. node	11629 Mar 12 04:35	23°) €31'55	
	11628 Mar 23 12:26	0°Υ 2° 20 50140			11629 Mar 16 00:42	$0^{\circ}\Upsilon$	
desc. node	11628 Mar 25 07:56	2° Y 59'48			11(20 M 17 20 27	200002110	0042112
	11/20 4 0/ 11-21	22° Y '41'40	1922117	superior conj	11629 Mar 17 20:37	3° Υ 02'10 2° Υ 44'16	
superior conj	11628 Apr 06 11:31	22° Y 07'26		minimum elong max. Earth dist.	11629 Mar 17 16:17	13°Υ15'55	1.44392 AU
minimum elong max. Earth dist.	11628 Apr 06 02:54 11628 Apr 10 09:24	28° Y 52'33			11629 Mar 24 03:48	13° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.44392 AU
max. Earm dist.	11628 Apr 11 02:35	0° 8	1.43412 AU	evening rise	11629 Apr 02 00:07 11629 Apr 03 21:05	0° 8	
evening rise	11628 Apr 11 02.33	17° 8 42'00			11629 Apr 03 21:03 11629 Apr 24 12:42	0°U	
evening rise	11628 Apr 30 13:52	0°Ⅱ		evening max el	11629 May 01 12:22	8° П 18'19	20°52'20
greatest brilliancy	11628 May 06 20:06	9° Ⅱ 20'53	-0.6m	asc. node	11629 May 05 16:34	11° ∏ 47'19	20 32 20
evening max el	11628 May 18 12:13	24° I I33'06	19°47'37	retrograde	11629 May 09 21:26	13° Ⅱ 11′23	
asc. node	11628 May 18 19:21	24° I I50'49	17 17 37	evening set	11629 May 14 02:04	11° I I32'04	
retrograde	11628 May 25 22:37	28° I I47'04		inferior conj	11629 May 19 08:30	5° ∏ 21'54	3°09'30
evening set	11628 May 29 17:24	27° I I23'52		minimum elong	11629 May 19 07:29	5°∏25'25	3°08'45
inferior conj	11628 Jun 04 01:29	21° II 26'04	3°15'47	min. Earth dist.	11629 May 19 20:23		0.68361 AU
minimum elong	11628 Jun 04 01:27				11629 May 23 13:53	30°R ∀	
min. Earth dist.	11628 Jun 05 03:13	19° Ⅲ 59'52	0.67527 AU	morning rise	11629 May 24 12:41	29° 8 04'35	
morning rise	11628 Jun 09 09:10	15° Ⅱ 05'09		direct	11629 May 29 21:00	26° 8 43'16	
direct	11628 Jun 15 06:03	12° Ⅲ 29′24			11629 Jun 06 04:29	Π $^{\circ}0$	
desc. node	11628 Jun 21 08:37	14° Ⅱ 40′30		desc. node	11629 Jun 08 05:37	1° Ⅱ 46′53	
morning max el	11628 Jun 27 05:02	19° Ⅲ 39'37	25°08'49	morning max el	11629 Jun 09 14:59	3° Ⅱ 08′07	23°40'18
	11628 Jul 06 00:26	0 \circ \odot			11629 Jun 30 03:10	0 \circ \odot	
	11628 Jul 26 03:50	$0^{\circ}\Omega$		morning set	11629 Jul 14 18:19	23° © 18'42	
morning set	11628 Aug 02 04:10	12° Ω 05′00		max. Earth dist.	11629 Jul 18 15:59	0° Ω 02'49	1.38900 AU
max. Earth dist.	11628 Aug 05 18:30		1.36629 AU		11629 Jul 18 15:21	0 $^{\circ}$ Ω	
	11628 Aug 11 17:04	0° m)					
	11/20 :	00 == 5-:-	000 412 5	superior conj	11629 Jul 26 04:14	13° Ω 41'43	
superior conj	11628 Aug 12 05:01	0° m 58'50		minimum elong	11629 Jul 26 08:18	14° Ω 00'46	0°58'24
minimum elong	11628 Aug 12 06:35	1° Mp 06'38	0°24'43	asc. node	11629 Aug 01 15:54	26° Ω 08'11	
asc. node	11628 Aug 14 19:08	6° Mp 08'26			11629 Aug 03 15:25	0° m/y	
evening rise	11628 Aug 20 10:13	17° Tp 32'56		evening rise	11629 Aug 04 08:25	1° Mp 22'53	10040120
avanir 1	11628 Aug 26 19:16	0° ⊽	10041144	evening max el	11629 Aug 20 13:32	27° Mp 43'40	18°48'30
evening max el	11628 Sep 06 15:54	15° Ω 51'29	19°41'44	ratragrada	11629 Aug 23 06:21	0° <u>ი</u>	
retrograde desc. node	11628 Sep 16 14:57 11628 Sep 17 06:10	20° Ω 49'00 20° Ω 47'52		retrograde evening set	11629 Aug 28 23:37 11629 Aug 30 21:31	1° £ 56'38 1° £ 44'23	
evening set	11628 Sep 17 06:10 11628 Sep 18 11:54	20° £ 47'32 20° £ 39'16		desc. node	11629 Sep 04 03:33	0° £ 00'18	
inferior conj	11628 Sep 18 11:54 11628 Sep 27 07:59	20° 2 39′16 16° 2 36′05	-3°05'30	acsc. Hour	11629 Sep 04 03:33 11629 Sep 04 03:45	30°RM)	
minimum elong	11628 Sep 26 23:53			inferior conj	11629 Sep 04 03.43 11629 Sep 08 01:16	30 หูแม่ 27°Mg23'41	-1°13'25
min. Earth dist.	11628 Sep 20 23:33 11628 Sep 29 12:23	16 ≅ 4843		minimum elong	11629 Sep 08 01:10 11629 Sep 07 22:12	27° m) 29'14	
morning rise	11628 Oct 05 10:04	13° ⊆ 14'30' 12° ⊆ 15'35	5.55500 AU	min. Earth dist.	11629 Sep 07 22:12 11629 Sep 11 03:01	25° m 10'50	0.56810 AU
direct	11628 Oct 10 08:07	11° ⊆ 22'09		morning rise	11629 Sep 15 19:32	22° m/25'40	0.00010710
morning max el	11628 Oct 24 04:32	11° ⊆ 22'09 18° ⊆ 15'12	24°47'11	direct	11629 Sep 21 11:56	21° m 07'38	
	000 21 01.32		= : :/ 		50p 21 11.50	y, 3/ 30	

morning max el	11629 Oct 05 18:16	28° Mp 31'12	26°22'00	morning rise	11630 Aug 27 23:13	3°M)23'46	
	11629 Oct 07 05:49	0∘ ত		direct	11630 Sep 03 06:12	1° m) 36'45	
	11629 Oct 27 12:01	0° M		morning max el	11630 Sep 17 14:51	9° m ,22′33	27°28'02
asc. node	11629 Oct 28 17:05	2°M19'29			11630 Oct 03 10:19	0∘ ত	
morning set	11629 Nov 03 11:42	14° M .08'41		asc. node	11630 Oct 15 13:49	21° ≏ 55'50	
. 8				morning set	11630 Oct 18 19:27	28° ₽ 36'39	
superior conj	11629 Nov 10 07:40	29°M09'43	1°35'01	morning sec	11630 Oct 19 11:09	0°M	
minimum elong	11629 Nov 10 06:27	29°M02'56	1°35'33		11030 001 17 11.07	O IIIG	
minimum ciong		29 11 1 02 30	1 33 33		11(20.0-4.25.10-24	120 M 54150	1935119
	11629 Nov 10 16:43			superior conj	11630 Oct 25 19:24		1°25'18
max. Earth dist.	11629 Nov 11 00:42	0° ∡ ¹44'21 −	1.31600 AU	minimum elong	11630 Oct 25 17:28		1°25'33
evening rise	11629 Nov 17 05:55	14° ∡ 15'15		max. Earth dist.	11630 Oct 25 09:41	13°M00'44	1.31350 AU
	11629 Nov 25 05:01	0°₹		evening rise	11630 Nov 01 13:07	28° M 44'51	
desc. node	11629 Dec 01 00:55	10° る 08'04			11630 Nov 02 03:13	0° ∡ ¹	
	11629 Dec 15 11:44	0° ≈		desc. node	11630 Nov 17 22:04	29° ∡ ¹00'00	
evening max el	11629 Dec 18 16:49	3°≈16'51	27°16'20		11630 Nov 18 13:58	0°ರ	
retrograde	11630 Jan 01 14:39	10° ≈ 31'27		evening max el	11630 Nov 30 17:11	14°る57'01	26°26'26
evening set	11630 Jan 08 13:10	8° ≈ 21'41		retrograde	11630 Dec 14 15:50	22° る 03'20	
min. Earth dist.	11630 Jan 12 07:18	5°≈35'33	0.61017 AU	evening set	11630 Dec 21 05:04	20°る18'27	
inferior conj	11630 Jan 15 09:55	2°≈53'30		min. Earth dist.	11630 Dec 25 06:51	17°る42'39	0.58882 AU
,						17 3 42 39	
minimum elong	11630 Jan 15 16:04	2°≈40'08	2°55'21	inferior conj	11630 Dec 28 10:32		
	11630 Jan 18 23:51	30°Ŗる		minimum elong	11630 Dec 28 18:42	15° る 03'55	4°12'21
morning rise	11630 Jan 22 21:45	27° る 59'46		morning rise	11631 Jan 05 11:09	10° る 47'09	
asc. node	11630 Jan 24 16:28	27° る 41'29		direct	11631 Jan 07 13:36	10° る 31'50	
direct	11630 Jan 25 01:03	27° る 40'57		asc. node	11631 Jan 11 13:38	11° る 30'32	
	11630 Jan 30 18:04	0° ≈		morning max el	11631 Jan 15 14:10	14° る 28'36	18°23'02
morning max el	11630 Feb 01 03:55	1°≈15'32	17°55'03		11631 Jan 26 05:09	0° ≈	
morning set	11630 Feb 16 18:33	25° ≈ 43'46		morning set	11631 Jan 31 10:05	9° ≈ 44'48	
8 2 2 2	11630 Feb 19 02:46	0°) €		. 8			
	11030100 19 02:10	٠,٨		superior conj	11631 Feb 09 14:32	27° ≈ 04'40	0°33'19
aumorior aoni	11620 Eab 27 06:29	14°) 32'31	0901142	minimum elong	11631 Feb 09 16:48	27°≈15'05	0°33'25
superior conj	11630 Feb 27 06:28			minimum elong			0-33-25
minimum elong	11630 Feb 27 06:20	14°) (31'58	0°01′25		11631 Feb 11 05:02	0° ∀	
behind sun begin	11630 Feb 26 22:09	13° ¥ 56′21		desc. node	11631 Feb 13 21:55	4° ¥ 50′00	
behind sun end	11630 Feb 27 14:31	15° ∺ 07'30		max. Earth dist.	11631 Feb 17 02:59	10° ∺ 25′09	1.40742 AU
desc. node	11630 Feb 27 01:14	14°) €09'46		evening rise	11631 Feb 21 13:58	17° ¥ 54'30	
max. Earth dist.	11630 Mar 06 17:53	27° ∺ 10′33	1.42773 AU		11631 Mar 01 03:59	0° Y	
	11630 Mar 08 11:21	$0^{\circ}\mathbf{\Upsilon}$			11631 Mar 22 15:12	$_{0\circ}$ 8	
evening rise	11630 Mar 12 21:26	7° Y ′04'34		evening max el	11631 Mar 27 22:21	5° 8 52'13	23°27'44
Ü	11630 Mar 28 02:25	0° ႘		retrograde	11631 Apr 07 14:14	12° 8 09'30	
evening max el	11630 Apr 14 07:09	22° 8 03'55	22°07'25	asc. node	11631 Apr 09 11:06	11° 8 53'06	
asc. node	11630 Apr 22 13:49	27° 8 33'13	22 07 23	evening set	11631 Apr 12 17:00	10° 8 00'51	
	-	27° 8 40'22		Č	•		0.69650 AII
retrograde	11630 Apr 23 19:10			min. Earth dist.	11631 Apr 17 13:15	4° 8 19'46	0.68650 AU
evening set	11630 Apr 28 10:27	25° 8 45'42		inferior conj	11631 Apr 18 02:39	3° 8 33'41	2°25'41
inferior conj	11630 May 03 17:31	19° 8 25'26	2°52'32	minimum elong	11631 Apr 18 00:31	3° 8 41'01	2°24'46
minimum elong	11630 May 03 15:46	19° 8 31'32	2°51'42		11631 Apr 20 19:48	30° Ŗ ♈	
min. Earth dist.	11630 May 03 16:27	19° 8 29'10	0.68732 AU	morning rise	11631 Apr 23 07:58	27° Y 28'06	
morning rise	11630 May 08 20:57	13° 8 13'20		direct	11631 Apr 27 13:57	25° Ƴ 47′00	
direct	11630 May 13 16:01	11° 8 11'04			11631 May 05 07:43	$_{0\circ}$ 8	
morning max el	11630 May 23 02:59	16° 8 44'10	22°11'17	morning max el	11631 May 05 20:14	0° 8 30'31	20°49'37
desc. node	11630 May 26 02:31	19° 8 57'22		desc. node	11631 May 12 23:23	8° 8 54'51	
	11630 Jun 03 00:17	$\Pi^{\circ}0$			11631 May 27 17:08	$\Pi^{\circ}0$	
	11630 Jun 23 04:24	0∘ ௐ		morning set	11631 Jun 04 19:24	12° Ⅲ 23'28	
morning set	11630 Jun 25 07:17	3°523'56		max. Earth dist.	11631 Jun 12 20:37		1.43198 AU
•			1 41170 ATT	max. Earth dist.		0°95	1.43196 AU
max. Earth dist.	11630 Jun 30 15:11	12° © 09'57	1.41178 AU		11631 Jun 15 19:35	0 3	
	11/20 1 1 00 00 50	252002511.4	1021110		11/21 7 10 15 25		1050100
superior conj	11630 Jul 08 09:50	25° © 35'14		superior conj	11631 Jun 19 17:27	6° ॐ 30′25	
minimum elong	11630 Jul 08 16:05	26°503'02	1°31'13	minimum elong	11631 Jun 19 23:48	6° 9 57'11	1°58'26
	11630 Jul 10 20:55	0 \circ Ω		evening rise	11631 Jul 01 17:09	27°519'09	
evening rise	11630 Jul 18 20:12	14° Ω 41'59			11631 Jul 03 05:24	$0^{\circ}\Omega$	
asc. node	11630 Jul 19 12:43	15° Ω 58'55		asc. node	11631 Jul 06 09:34	5° Ω 35'42	
	11630 Jul 27 08:16	0° m		evening max el	11631 Jul 18 08:58	23° Ω 18'42	18°04'03
evening max el	11630 Aug 03 20:35	10° m) 16'18	18°16'25	retrograde	11631 Jul 24 23:18	26° Ω 42'05	
retrograde	11630 Aug 11 03:16	13° mp 57'02		evening set	11631 Jul 27 11:49	26° Ω 12'12	
evening set	11630 Aug 13 07:43	13° m 37'49		inferior conj	11631 Aug 03 03:17	21°Ω11'18	1°39'07
•	-		0°24'44	-	-	21° Ω 05'08	1°37'47
inferior conj	11630 Aug 20 16:22	8° Mp 56'48		minimum elong	11631 Aug 03 05:48		
minimum elong	11630 Aug 20 17:12	8° m 55'02	0°24'05	min. Earth dist.	11631 Aug 06 06:26	18° Ω 08'53	0.61139 AU
desc. node	11630 Aug 22 00:53	7° m/47'28		desc. node	11631 Aug 08 22:14	15° Ω 53'28	
min. Earth dist.	11630 Aug 24 00:35	6°Mp08′05	0.58861 AU	morning rise	11631 Aug 09 21:08	15° Ω 12'50	

direct	11631 Aug 16 12:22	12° Ω 59'02		morning rise	11632 Jul 22 11:34	27° © 46'42	
morning max el	11631 Aug 30 18:11	20° Ω 57'42	27°56'44	desc. node	11632 Jul 25 19:33	25° © 51'33	
	11631 Sep 07 14:06	0° m		direct	11632 Jul 29 04:05	25° © 13'48	
	11631 Sep 26 10:52	0∘ ⊽			11632 Aug 08 13:20	$0^{\circ}\Omega$	
asc. node	11631 Oct 02 10:32	11° ≏ 46'17		morning max el	11632 Aug 12 02:33	3° Ω 15'47	27°47'08
morning set	11631 Oct 02 22:20	12° ≙ 47'05			11632 Sep 01 01:32	0° Mp	
max. Earth dist.	11631 Oct 08 17:04	25° ♀ 09'03	1.31603 AU	morning set	11632 Sep 15 18:10	26° № 34'31	
					11632 Sep 17 10:41	0∘ ⊽	
superior conj	11631 Oct 10 05:56	28° ≏ 32'15	1°10'05	asc. node	11632 Sep 18 07:15	1° ≏ 45'58	
minimum elong	11631 Oct 10 03:42	28° ♀ 19'50	1°10'02	max. Earth dist.	11632 Sep 20 19:06	7° ഫ 00'07	1.32374 AU
	11631 Oct 10 21:48	0° M					
evening rise	11631 Oct 16 23:19	13°M19'56		superior conj	11632 Sep 23 13:25	12° ≏ 56'34	0°49'33
	11631 Oct 25 05:41	0° ∡ ¹		minimum elong	11632 Sep 23 11:23	12° ≏ 45'30	0°49'16
desc. node	11631 Nov 04 19:16	16° ₹ 58'43		evening rise	11632 Sep 30 10:40	27° ≏ 55'23	
evening max el	11631 Nov 12 09:27	25° ₹ 45'57	25°06'09		11632 Oct 01 10:02	0° M .	
	11631 Nov 17 17:56	0°る			11632 Oct 18 13:41	0° ∡ ¹	
retrograde	11631 Nov 26 05:32	2° る 42'21		desc. node	11632 Oct 21 16:33	3° ҂¹ 44'03	
evening set	11631 Dec 01 22:26	1° る 29'03		evening max el	11632 Oct 23 20:04	5° ₹ 57'21	23°27'31
	11631 Dec 04 21:40	30°₽ ҂ 7		retrograde	11632 Nov 06 06:14	12° ≯ 38'40	
min. Earth dist.	11631 Dec 06 21:27	28° ҂ 747′05	0.56914 AU	evening set	11632 Nov 10 15:50	11° ∡ 756'36	
inferior conj	11631 Dec 09 15:11	26° ₹ 58'56	-5°19'33	min. Earth dist.	11632 Nov 17 05:59	8° ҂ 149'55	0.55398 AU
minimum elong	11631 Dec 09 22:18	26° ∡ 747'13	5°17'34	inferior conj	11632 Nov 18 23:43	7° ∡ ¹48'46	-5°50'02
morning rise	11631 Dec 18 00:23	22° х ⁴48'33		minimum elong	11632 Nov 19 00:33	7° ∡ ¹47'33	5°49'21
direct	11631 Dec 20 08:10	22° ∡ ³32'59		morning rise	11632 Nov 27 11:01	3° ₹ ¹56'30	
asc. node	11631 Dec 29 10:45	26° ₹ '51'30		direct	11632 Nov 30 07:36	3° х 36′39	
morning max el	11631 Dec 29 14:49	27° х 01'14	19°12'35	morning max el	11632 Dec 11 02:28	8° ∡ ¹43'53	20°25'10
morning man er	11632 Jan 01 07:57	0°ප	17 1200	asc. node	11632 Dec 15 07:50	13° ₹ ¹29'37	20 20 10
morning set	11632 Jan 15 10:48	24° る 09'34		use. Houe	11632 Dec 25 07:55	0°ਰ	
morning sec	11632 Jan 18 09:08	0°≈		morning set	11632 Dec 29 17:30	8° ਰ 48'46	
	11032 van 10 07.00	0		morning sec	11002 200 27 17.00	0 0 10 10	
superior conj	11632 Jan 23 16:06	10° ≈ 24'54	1°00'50	superior conj	11633 Jan 06 06:40	24° ට 20'44	1°20'36
minimum elong	11632 Jan 23 19:04	10° ≈ 39'14	1°01'02	minimum elong	11633 Jan 06 09:14	24° ට 33'40	1°21'03
max. Earth dist.	11632 Jan 30 09:22	22°≈59'30	1.38525 AU		11633 Jan 09 02:32	0° ≈	
desc. node	11632 Jan 31 18:38	25° ≈ 28'39		max. Earth dist.	11633 Jan 11 17:05	5°≈04'08	1.36366 AU
evening rise	11632 Feb 03 03:51	29°≈39'57		evening rise	11633 Jan 15 12:59	12°≈14'24	1.50500110
	11632 Feb 03 08:29	0°) €		desc. node	11633 Jan 17 15:24	16° ≈ 01'57	
	11632 Feb 22 12:24	0° Υ		dese. node	11633 Jan 25 21:32	0° ∀	
evening max el	11632 Mar 09 12:06	19° Ƴ 43'37	24°46'56		11633 Feb 16 15:43	0° Υ	
retrograde	11632 Mar 21 05:30	26° Y 33'35	2	evening max el	11633 Feb 20 01:37	3° Υ 33'51	25°57'51
asc. node	11632 Mar 26 08:25	24° Y 37'00		retrograde	11633 Mar 04 15:56	10° Y 45'51	20 0, 01
evening set	11632 Mar 26 20:13	24° Υ 13'00		evening set	11633 Mar 10 18:25	8° Υ 16'30	
min. Earth dist.	11632 Mar 31 08:31	19° Υ 07'28	0.68129 AU	asc. node	11633 Mar 13 05:48	5° Υ 50'55	
inferior conj	11632 Apr 01 10:01	17° Y 42'57	1°49'10	min. Earth dist.	11633 Mar 15 00:03	3° Υ 46'04	0.67192 AU
minimum elong	11632 Apr 01 07:56	17° Y 49'52	1°48'20	inferior conj	11633 Mar 16 13:39	1° Υ 48'28	1°02'52
morning rise	11632 Apr 06 19:51	11° Υ 45'23	1 1020	minimum elong	11633 Mar 16 12:10	1° Υ 53'06	1°02'22
direct	11632 Apr 10 13:27	10° Υ 25'23		minimum ciong	11633 Mar 18 00:58	30°R) €	1 02 22
morning max el	11632 Apr 17 21:04	14° Υ 29'08	19°40'43	morning rise	11633 Mar 22 06:35	26° ₩ 00'33	
desc. node	11632 Apr 17 21:04 11632 Apr 28 20:09	28° Υ 26'36	17 40 43	direct	11633 Mar 25 12:48	25° ₩ 00'00	
dese. Hode	11632 Apr 29 21:58	0°8		morning max el	11633 Apr 01 05:27	28°) 36'49	18°47'11
greatest brilliancy	11632 Apr 30 14:56	1° 8 01'55	-0.6m	morning max cr	11633 Apr 02 13:25	20 γ (30 γ)	10 4/11
morning set	11632 May 13 19:15	20° 8 55'27	-0.0111	desc. node	11633 Apr 15 16:52	18° Y 22'47	
morning set	11632 May 19 15:59	0°Ⅱ		morning set	11633 Apr 13 16.32 11633 Apr 23 05:20	0° 8 03'25	
max. Earth dist.	11632 May 19 13.39 11632 May 25 09:28	0 П 8°П59'47	1.44719 AU	morning set	11633 Apr 23 04:27	0 8 03 23	
max. Earm dist.	11032 Way 23 09.26	о щзуч/	1.44/19 AU	max. Earth dist.	11633 Apr 23 04.27 11633 May 08 03:20		1.45571 AU
superior conj	11632 May 30 01:05	16° Ⅱ 25'04	-2012'28	max. Earth tist.	11033 Way 08 03.20	23 02012	1.433/1 AU
minimum elong	11632 May 30 01:03	16° Ⅱ 33'31		superior conj	11633 May 09 13:15	25° 8 33'02	2°08'07
minimum clong	11632 Jun 07 08:29	0°9	2 13 09	minimum elong	11633 May 09 07:49	25° 8 11'47	
avanina riaa	11632 Jun 12 18:24	9° 5 03'59		minimum clong		0° Ⅱ	2 08 29
evening rise				ovenina riae	11633 May 12 09:14		
asc. node	11632 Jun 22 06:31	24°953'35		evening rise	11633 May 24 20:00	19° Ⅱ 48'39	0.00
avanina mar -1	11632 Jun 25 14:28	0° Ω 6° Ω 42'02	10010125	greatest brilliancy	11633 May 30 21:44	29° Ⅱ 34'35 0° ⑤	-0.9m
evening max el	11632 Jun 30 23:02	6° Ω 42'02	18°10'25	1	11633 May 31 04:05		
retrograde	11632 Jul 07 07:35	10° Ω 02'47		asc. node	11633 Jun 09 03:34	13°545'11	1002450
evening set	11632 Jul 10 04:13	9° Ω 19'38	2020141	evening max el	11633 Jun 14 11:39	20°917'46	18°34'50
inferior conj	11632 Jul 16 06:12	4° Ω 00′28		retrograde	11633 Jun 20 23:54	23°549'46	
minimum elong	11632 Jul 16 08:44	3° £ 53′27		evening set	11633 Jun 24 04:43	22°951'44	2000102
min. Earth dist.	11632 Jul 18 21:33	1° £ 06'34	0.63352 AU	inferior conj	11633 Jun 29 21:04	17°516'14	3°00'02
	11632 Jul 19 23:25	30° ₹ 5		minimum elong	11633 Jun 29 22:47	17° © 11'00	2°59'02

	11635 Apr 28 10:02	0°Щ		asc. node	11636 Apr 29 19:03	5° Ⅱ 59'40	
evening max el	11635 May 11 23:51	17° ∏ 44'30	20°13'37	retrograde	11636 May 02 17:49	6° П 41'12	
asc. node	11635 May 13 21:50	19° Ⅲ 31'07	20 13 37	evening set	11636 May 07 02:53	4° ∏ 55'22	
retrograde	11635 May 19 19:25	22° I 14'29		evening set	11636 May 11 10:29	30°R8	
evening set	11635 May 23 18:11	20° I I44'38		inferior conj	11636 May 12 09:22	28° 8 40'52	3°03'33
inferior conj	11635 May 29 01:16	14° ∏ 41'25	3°14'29	minimum elong	11636 May 12 08:00	28° 8 45'36	3°02'46
minimum elong	11635 May 29 00:48	14° ∏ 43'01	3°13'45	min. Earth dist.	11636 May 12 15:43	28° 8 18'43	0.68580 AU
min. Earth dist.	11635 May 29 21:05	13° Ⅲ 33'53	0.67940 AU	morning rise	11636 May 17 12:54	22° 8 25'38	0.00000110
morning rise	11635 Jun 03 07:07	8° Ⅲ 21'33	***************************************	direct	11636 May 22 15:44	20° 8 11'44	
direct	11635 Jun 08 22:49	5° ∏ 50'58		morning max el	11636 Jun 01 20:15	26° 8 14'26	23°01'54
desc. node	11635 Jun 16 11:01	9° ∏ 08'25		desc. node	11636 Jun 02 07:59	26° 8 44'24	
morning max el	11635 Jun 20 10:03	12° Ⅱ 43'48	24°31'40		11636 Jun 05 07:06	0°II	
. 8	11635 Jul 04 08:03	0ಂತಾ			11636 Jun 26 21:00	0ಂತಾ	
	11635 Jul 23 15:16	$0^{\circ}\Omega$		morning set	11636 Jul 06 07:19	15° © 05'14	
morning set	11635 Jul 26 03:33	4°Ω20'11		max. Earth dist.	11636 Jul 10 15:25	22° © 24'53	1.39890 AU
max. Earth dist.	11635 Jul 29 18:02	10° Ω 44'55	1.37573 AU		11636 Jul 14 23:23	$0^{\circ}\Omega$	
superior conj	11635 Aug 05 17:28	23° Ω 49′09	-0°38'52	superior conj	11636 Jul 18 09:45	6° Ω 12'28	-1°12'47
minimum elong	11635 Aug 05 20:04	24° Ω 01'43	0°38'54	minimum elong	11636 Jul 18 14:51	6° Ω 35'52	1°12'39
C	11635 Aug 08 21:18	0° m)		asc. node	11636 Jul 26 18:11	21° Ω 55'51	
asc. node	11635 Aug 09 21:26	1° m 59'37		evening rise	11636 Jul 28 01:51	24° Ω 27'23	
evening rise	11635 Aug 14 07:39	10° m) 49'40		C	11636 Jul 30 23:49	0° m)	
C	11635 Aug 24 17:25	0∘ <mark>⊽</mark>		evening max el	11636 Aug 13 02:37	20° m/20'15	18°32'20
evening max el	11635 Aug 31 00:26	8° ഫ 09'43	19°16'30	retrograde	11636 Aug 20 23:24	24° m 17'21	
retrograde	11635 Sep 09 06:49	12° ≏ 46'41		evening set	11636 Aug 22 23:57	24° m 02'30	
evening set	11635 Sep 11 03:03	12° ≏ 36'31		desc. node	11636 Aug 29 06:04	20° m 44'09	
desc. node	11635 Sep 12 08:40	12° ≏ 18'55		inferior conj	11636 Aug 30 19:31	19° m) 33'08	-0°29'07
inferior conj	11635 Sep 19 17:02	8° م 27'03	-2°17'36	minimum elong	11636 Aug 30 18:22	19° m 35'21	0°28'52
minimum elong	11635 Sep 19 11:00	8° △ 37'03	2°15'14	min. Earth dist.	11636 Sep 03 01:44	17° m 02'48	0.57645 AU
min. Earth dist.	11635 Sep 22 08:39	6° ₽ 42'09	0.55856 AU	morning rise	11636 Sep 07 09:20	14° m) 19'45	
morning rise	11635 Sep 27 16:16	3° ჲ 51'02		direct	11636 Sep 13 08:49	12° m 49'32	
direct	11635 Oct 02 22:38	2° ≏ 47'33		morning max el	11636 Sep 27 16:24	20° m/22'43	26°54'16
morning max el	11635 Oct 17 00:14	9° £ 55'07	25°30'06		11636 Oct 05 23:23	0∘ ⊽	
-	11635 Nov 01 03:32	0° M		asc. node	11636 Oct 22 19:23	27° ہ 57'29	
asc. node	11635 Nov 05 22:37	8°M32'53			11636 Oct 23 19:56	0° M	
morning set	11635 Nov 13 02:59	23°M05'22		morning set	11636 Oct 27 12:34	7° II L39'37	
	11635 Nov 16 07:12	0° ∡ ¹					
				superior conj	11636 Nov 03 09:48	22°M47'03	1°31'34
superior conj	11635 Nov 19 22:17	8° ∡ 101'24	1°38'03	minimum elong	11636 Nov 03 08:15	22°M38'20	1°31'59
minimum elong	11635 Nov 19 21:37	7° ∡ ′57'41	1°38'42	max. Earth dist.	11636 Nov 03 15:17	23° M 17'37	1.31437 AU
max. Earth dist.	11635 Nov 21 07:00	11° ∤ 01'41	1.31967 AU		11636 Nov 06 15:49	0° ∡ ¹	
evening rise	11635 Nov 27 01:05	23° ∡ ¹21'36		evening rise	11636 Nov 10 05:37	7° ∡ ¹44'32	
	11635 Nov 30 07:48	5°0			11636 Nov 21 18:32	8°0	
desc. node	11635 Dec 09 06:11	16° る 19'43		desc. node	11636 Nov 25 03:18	5° る 34'29	
	11635 Dec 18 03:26	0° ≈		evening max el	11636 Dec 10 18:50	25° る 42'05	26°59'20
evening max el	11635 Dec 29 14:00	13° ≈ 32'37	27°29'33		11636 Dec 16 04:07	0° ≈	
retrograde	11636 Jan 12 10:41	20° ≈ 51′26		retrograde	11636 Dec 24 17:04	2° ≈ 52'20	
evening set	11636 Jan 19 10:10	18° ≈ 31'53		evening set	11636 Dec 31 12:52	0° ≈ 52′25	
min. Earth dist.	11636 Jan 23 03:47	15° ≈ 33'36	0.62222 AU		11637 Jan 01 22:34	30°Ŗる	
inferior conj	11636 Jan 26 02:22	12° ≈ 48′16	-2°13'18	min. Earth dist.	11637 Jan 04 09:12	28° る 12'22	0.60103 AU
minimum elong	11636 Jan 26 06:53	12° ≈ 37'40	2°10'53	inferior conj	11637 Jan 07 13:11	25° る 36'38	
asc. node	11636 Feb 01 21:45	7° ≈ 50′21		minimum elong	11637 Jan 07 20:23	25° る 21'49	3°28'29
morning rise	11636 Feb 02 06:11	7° ≈ 42'54		morning rise	11637 Jan 15 06:42	20° る 51'29	
direct	11636 Feb 04 11:43	7° ≈ 20'32		direct	11637 Jan 17 09:11	20° る 34'28	
morning max el	11636 Feb 11 06:12	10° ≈ 47′08	17°47'55	asc. node	11637 Jan 18 18:58	20° る 42'23	
	11636 Feb 24 02:42	0° ∀		morning max el	11637 Jan 24 20:03	24° る 17'17	18°04'29
morning set	11636 Feb 27 02:21	5° ¥ 16'54			11637 Jan 29 11:30	0° ≈	
desc. node	11636 Mar 06 06:47	19° ¥ 38′03		morning set	11637 Feb 09 10:45	18° ≈ 58'48	
					11637 Feb 15 09:37	0° ∀	
superior conj	11636 Mar 09 12:20	25° 米 08′16					
minimum elong	11636 Mar 09 09:58	24° ¥ 58'15	0°24'04	superior conj	11637 Feb 19 08:09	7° ∺ 06′12	
	11636 Mar 12 10:11	0° Y		minimum elong	11637 Feb 19 09:17	7°) 11′14	0°14'11
max. Earth dist.	11636 Mar 16 10:40	6° Ƴ 34'22	1.43769 AU	behind sun begin	11637 Feb 19 05:41	6°) 55′14	
evening rise	11636 Mar 24 01:20	18° Ƴ 36'46		behind sun end	11637 Feb 19 12:53	7° ¥ 27'13	
	11636 Mar 31 12:41	0° 8		desc. node	11637 Feb 21 03:26	10° 米 17'12	
	11636 Apr 22 11:21	$\Pi^{\circ}0$		max. Earth dist.	11637 Feb 26 23:11	20° ¥ 15′12	1.41947 AU
evening max el	11636 Apr 23 21:41	1° Ⅱ 30′13	21°23'21	evening rise	11637 Mar 04 06:13	28° ¥ 55′12	

	11637 Mar 04 22:24	0° Υ			11638 Feb 25 20:07	0° Υ	
	11637 Mar 04 22:24 11637 Mar 25 02:57	0°8		evening max el	11638 Mar 20 05:03	29°Υ′06'26	24°01'55
evening max el	11637 Mai 23 02.37 11637 Apr 06 14:51	15° 8 17'35	22°41'17	evening max er	11638 Mar 20 03:05	0° 8	24 01 33
retrograde	11637 Apr 16 14:30	21° 8 11'24	22 41 17	ratragrada	11638 Mar 21 03:06 11638 Mar 31 08:08	5° 8 39'04	
asc. node	11637 Apr 16 14:30	21° 8 11'23		retrograde asc. node	11638 Apr 03 13:40	4° 8 50'56	
	1	19° 8 10'27			1	3° 8 24'43	
evening set	11637 Apr 21 10:42		2042121	evening set	11638 Apr 05 16:03	_	
inferior conj	11637 Apr 26 18:40	12° 8 46'59	2°42'21	i To al III	11638 Apr 08 19:51	30°₹ Υ	0.60400.444
minimum elong	11637 Apr 26 16:42	12° 8 53'47	2°41'28	min. Earth dist.	11638 Apr 10 08:36	27°Υ59'00	0.68480 AU
min. Earth dist.	11637 Apr 26 12:16	13° 8 09'14	0.68757 AU	inferior conj	11638 Apr 11 03:16	26° Y 55'40	2°11'23
morning rise	11637 May 01 22:36	6° 8 37'46		minimum elong	11638 Apr 11 01:06	27°Υ03'03	2°10'29
direct	11637 May 06 12:07	4° 8 44'23		morning rise	11638 Apr 16 10:13	20° Y ′53'32	
morning max el	11637 May 15 10:10	9° 8 54'57	21°35'20	direct	11638 Apr 20 10:45	19° Y 21'44	
desc. node	11637 May 20 04:51	15° 8 16'49		morning max el	11638 Apr 28 06:38	23° Y 46'53	20°18'39
	11637 May 31 02:13	0°Щ			11638 May 03 16:21	0°8	
morning set	11637 Jun 16 09:11	24° Ⅱ 40'54		desc. node	11638 May 07 01:39	4° 8 29'48	
	11637 Jun 19 16:51	0 \circ			11638 May 24 09:13	Π °0	
max. Earth dist.	11637 Jun 22 17:43	4° © 57'39	1.42096 AU	morning set	11638 May 26 13:50	3° Ⅱ 22'18	
				max. Earth dist.	11638 Jun 05 02:30	18° Ⅱ 20′37	1.43917 AU
superior conj	11637 Jun 30 06:31	17° © 42'25	-1°43'46				
minimum elong	11637 Jun 30 13:13	18° © 11'30	1°43'47	superior conj	11638 Jun 11 03:55	28° Ⅱ 11'06	
	11637 Jul 07 04:54	$0^{\circ}\Omega$		minimum elong	11638 Jun 11 09:05	28° Ⅱ 32'26	2°06'39
evening rise	11637 Jul 11 07:56	7° Ω 30′25			11638 Jun 12 06:16	0 \circ \odot	
asc. node	11637 Jul 13 15:01	11° Ω 41′20		evening rise	11638 Jun 23 21:11	19° © 47'02	
	11637 Jul 24 19:16	0° m)			11638 Jun 29 19:09	$\mathfrak{O}^{\circ}\mathfrak{O}$	
evening max el	11637 Jul 27 12:23	3° Mp 06'23	18°08'40	asc. node	11638 Jun 30 11:56	1° Ω 11'05	
retrograde	11637 Aug 03 10:43	6° Mp 38'01		evening max el	11638 Jul 11 01:51	16° Ω 18'38	18°04'26
evening set	11637 Aug 05 18:34	6° Mp 14′36		retrograde	11638 Jul 17 12:42	19° Ω 39'32	
inferior conj	11637 Aug 12 19:29	1° mp 24'31	0°59'23	evening set	11638 Jul 20 04:32	19° Ω 04'25	
minimum elong	11637 Aug 12 21:17	1° m/20'26	0°58'19	inferior conj	11638 Jul 26 13:47	13° Ω 55'26	2°03'16
	11637 Aug 14 08:40	30°RΩ		minimum elong	11638 Jul 26 16:28	13° Ω 48'31	2°01'54
min. Earth dist.	11637 Aug 16 02:28	28° Ω 27'24	0.59829 AU	min. Earth dist.	11638 Jul 29 12:26	10° Ω 54'01	0.62100 AU
desc. node	11637 Aug 16 03:27	28° Ω 25'19		morning rise	11638 Aug 02 02:07	7° Ω 48'55	
morning rise	11637 Aug 19 20:52	25° Ω 39'18		desc. node	11638 Aug 03 00:46	7° Ω 11'18	
direct	11637 Aug 26 08:04	23° Ω 40'38		direct	11638 Aug 08 18:32	5°Ω25'52	
	11637 Sep 08 01:03	0° m)		morning max el	11638 Aug 22 22:13	13° Ω 27'56	27°57'09
morning max el	11637 Sep 09 16:08	1° mp 32'21	27°45'03	morning max cr	11638 Sep 05 04:31	0° my	27 37 07
morning max ci	11637 Sep 30 06:51	0° ⊽	27 43 03		11638 Sep 03 04:31	0° ت سائر	
asc. node	11637 Oct 09 16:06	ა <u>—</u> 17° Ω 40'11		morning set	11638 Sep 25 18:45	ი — 6° ჲ 02'39	
morning set	11637 Oct 09 10:00	22° Ω 00'26		asc. node	11638 Sep 26 12:49	0° ⊆ 0239 7° ⊆ 35'26	
morning set	11637 Oct 11 18:29 11637 Oct 15 11:57	0°M₁		max. Earth dist.	11638 Oct 01 05:55		1.31866 AU
max. Earth dist.	11637 Oct 13 11.37 11637 Oct 18 00:15	5°M32'19	1.31400 AU	max. Earm dist.	11036 Oct 01 03.33	17 = 33 00	1.31800 AU
max. Earm dist.	1103/OCt 18 00.13	3 11632 19	1.31400 AU		11(20 0-4 02 0(.47	229 0 01155	1902100
	11/27 0 + 10 21 15	70 m 20157	1°19'29	superior conj	11638 Oct 03 06:47	22° Ω 01'55	1°02'00
superior conj	11637 Oct 18 21:15 11637 Oct 18 19:07			minimum elong	11638 Oct 03 04:33	21° Ω 49'41	1°01'51
minimum elong		7°M17'09	1°19'37		11638 Oct 06 21:34	0°M	
evening rise	11637 Oct 25 14:20	22°M16'42		evening rise	11638 Oct 10 01:18	6°M52'52	
	11637 Oct 29 06:48	0° ∡ ¹			11638 Oct 21 23:45	0° ₹	
desc. node	11637 Nov 12 00:29	24° ₹ 05'36		desc. node	11638 Oct 29 21:45	11° 🗷 36'23	0.400.5100
	11637 Nov 16 08:34	0°る	0.505.510.4	evening max el	11638 Nov 04 04:39	17° 🖈 28'37	24°25'22
evening max el	11637 Nov 22 15:39	6° る 59'03	25~55 [,] 24	retrograde	11638 Nov 17 22:02	24° 🗷 20'42	
retrograde	11637 Dec 06 13:20	14°る01'17		evening set	11638 Nov 23 02:42	23° × 21'04	
evening set	11637 Dec 12 19:40	12° ろ 29'01		min. Earth dist.	11638 Nov 28 15:56	20° ∡ ³30'47	
min. Earth dist.	11637 Dec 17 04:19	9° ප් 53'11	0.58006 AU	inferior conj	11638 Dec 01 01:23	19° ₹ 01'12	
inferior conj	11637 Dec 20 05:32	7° る 43'03		minimum elong	11638 Dec 01 06:28	18° ₹ 53'15	5°36'44
minimum elong	11637 Dec 20 13:48	7° る 28'17	4°42'34	morning rise	11638 Dec 09 12:22	14° ₹ 59'46	
morning rise	11637 Dec 28 10:32	3° る 20'29		direct	11638 Dec 12 00:29	14° ₹ 43'04	
direct	11637 Dec 30 14:31	3° ප 05'27		morning max el	11638 Dec 21 22:19	19° ∡ ¹27′05	19°40'43
asc. node	11638 Jan 05 16:08	5° る 11'41		asc. node	11638 Dec 23 13:14	21° ₹ 07'40	
morning max el	11638 Jan 08 02:42	7° る 14'04	18°41'30		11638 Dec 29 23:14	0° ろ	
	11638 Jan 22 15:11	0° ≈		morning set	11639 Jan 08 10:15	17° る 42'37	
morning set	11638 Jan 24 06:38	3° ≈ 10′56			11639 Jan 14 12:11	0° ≈	
superior conj	11638 Feb 02 00:16	20° ≈ 00′23	0°45'56	superior conj	11639 Jan 16 07:56	3° ≈ 37'22	1°10'08
minimum elong	11638 Feb 02 03:01	20° ≈ 13'14	0°46'04	minimum elong	11639 Jan 16 10:50	3° ≈ 51'37	1°10'26
	11638 Feb 07 11:19	0° ∀		max. Earth dist.	11639 Jan 22 12:55	15° ≈ 30′30	1.37579 AU
desc. node	11638 Feb 08 00:06	0°) 56′49		desc. node	11639 Jan 25 20:52	21° ≈ 33'35	
max. Earth dist.	11638 Feb 09 07:01	3°) 12′56	1.39800 AU	evening rise	11639 Jan 26 06:18	22° ≈ 15'30	
evening rise	11638 Feb 13 07:49	10° ¥ 08′20			11639 Jan 30 17:47	0° ∀	

	11639 Feb 19 16:52	0°Υ		evening rise	11640 Jan 08 22:37	5°≈08'08	
evening max el	11639 Mar 02 18:24	12°Υ56'53	25°18'32	desc. node	11640 Jan 12 17:41	12°≈03'12	
retrograde	11639 Mar 14 21:38	19° Υ 58'28	23 10 32	dese. Hode	11640 Jan 23 14:00	0° ∺	
evening set	11639 Mar 20 17:21	17° Υ 33'35		evening max el	11640 Feb 13 08:03	26°) 44'54	26°23'52
asc. node	11639 Mar 21 11:02	16° Y 53'57		evening max er	11640 Feb 17 00:30	0°Υ	20 23 32
min. Earth dist.	11639 Mar 25 02:37	12° Υ 42'58	0.67775 AU	retrograde	11640 Feb 26 05:55	4° Υ 03'08	
inferior conj	11639 Mar 26 09:18	11° Υ 03'25	1°30'44	evening set	11640 Mar 03 12:53	1° Υ 31'40	
minimum elong	11639 Mar 26 07:24	11° Υ 09'35	1°30'00	evening sec	11640 Mar 05 05:00	30°R) €	
morning rise	11639 Mar 31 21:50	5° Υ 09'41		asc. node	11640 Mar 07 08:23	27°) € 38′23	
direct	11639 Apr 04 10:21	3° Y 58'25		min. Earth dist.	11640 Mar 07 16:04	27° ₩ 15'36	0.66667 AU
morning max el	11639 Apr 11 10:49	7° Y 49'31	19°15'57	inferior conj	11640 Mar 09 10:43	25°) €06'05	0°40'15
desc. node	11639 Apr 23 22:24	24° Υ 12'25		minimum elong	11640 Mar 09 09:42	25°) (09'12	0°40'00
greatest brilliancy	11639 Apr 24 07:09	24° Y 44'58	-0.7m	morning rise	11640 Mar 15 07:24	19° ¥ 22'33	0 .000
8	11639 Apr 27 18:56	0°8	*****	direct	11640 Mar 18 09:08	18°) €29'22	
morning set	11639 May 05 15:06	12° 8 00'47		morning max el	11640 Mar 24 21:53	21°) 58'58	18°29'20
	11639 May 17 04:51	0°II			11640 Mar 31 09:45	0°Υ	
max. Earth dist.	11639 May 18 17:09	2° Ⅲ 22'31	1.45162 AU	desc. node	11640 Apr 09 19:04	14° Y 16'49	
				morning set	11640 Apr 14 11:19	21° Y 39'34	
superior conj	11639 May 22 02:06	7° Ⅱ 42'13	-2°13'09		11640 Apr 19 18:14	0°8	
minimum elong	11639 May 22 01:05	7° I I38'11			110.011p1 15 10.11	Ů	
mmmum viong	11639 Jun 04 20:39	0°95	2 13 1,	superior conj	11640 Apr 30 10:00	16° 8 41'54	-2°00'06
evening rise	11639 Jun 05 12:40	1°906'05		minimum elong	11640 Apr 30 02:04	16° 8 10'54	2°00'05
asc. node	11639 Jun 17 08:56	20°9518'42		max. Earth dist.	11640 Apr 30 11:57	16° 8 49'31	1.45708 AU
evening max el	11639 Jun 24 15:39	29°548'03	18°18'42	max. Dartii dist.	11640 May 08 21:57	0°II	1.15700710
e venning man er	11639 Jun 24 20:32	0°Ω	10 10 .2	evening rise	11640 May 16 03:54	11° II 25'19	
retrograde	11639 Jul 01 00:48	3° Ω 12'03		greatest brilliancy	11640 May 25 04:39	25° Ⅱ 39'47	-0.8m
evening set	11639 Jul 04 00:49	2° Ω 22'52		greatest orimane)	11640 May 28 00:10	0°9	0.0111
evening sec	11639 Jul 07 02:43	30°Rூ		asc. node	11640 Jun 03 06:02	8°956'43	
inferior conj	11639 Jul 09 22:16	26°956'51	2°44'44	evening max el	11640 Jun 07 02:59	13° 5 27'37	18°50'37
minimum elong	11639 Jul 10 00:31	26°950'20	2°43'35	retrograde	11640 Jun 13 19:18	17° © 07'57	
min. Earth dist.	11639 Jul 12 07:45	24°511'48	0.64215 AU	evening set	11640 Jun 17 03:45	16°503'16	
morning rise	11639 Jul 15 22:51	20°539'03	***************************************	inferior conj	11640 Jun 22 17:06	10°521'35	3°07'42
desc. node	11639 Jul 20 22:03	18°910'15		minimum elong	11640 Jun 22 18:22	10°917'37	3°06'49
direct	11639 Jul 22 14:06	18°900'41		min. Earth dist.	11640 Jun 24 11:43	8°908'14	0.66002 AU
morning max el	11639 Aug 05 07:55	26°501'38	27°32'26	morning rise	11640 Jun 28 08:17	3°959'46	0.00002110
	11639 Aug 08 23:58	0°N	-,	direct	11640 Jul 04 17:02	1°917'00	
	11639 Aug 29 18:14	0°m)		desc. node	11640 Jul 06 19:14	1°532'24	
morning set	11639 Sep 09 10:49	19° m) 38'41		morning max el	11640 Jul 17 18:43	9° © 02'52	26°37'33
asc. node	11639 Sep 13 09:31	27° mp 37'46			11640 Aug 03 04:51	0°N	
max. Earth dist.	11639 Sep 14 04:24	29° m 15'54	1.32855 AU		11640 Aug 21 05:14	0° mp	
	11639 Sep 14 12:51	0∘ ⊽		morning set	11640 Aug 22 15:36	2° mp 41'08	
				max. Earth dist.	11640 Aug 26 17:07	10° mp 33'34	1.34360 AU
superior conj	11639 Sep 17 12:21	6° £ 19'17	0°39'19	asc. node	11640 Aug 30 06:14	17° m) 43'29	
minimum elong	11639 Sep 17 10:35	6° £ 09'48	0°38'59			., .,	
evening rise	11639 Sep 24 12:34	21° £ 26'52		superior conj	11640 Aug 31 11:38	20° m 15'15	0°11'52
	11639 Sep 28 15:16	0°M		minimum elong	11640 Aug 31 11:01	20° mp 12'00	0°11'32
evening max el	11639 Oct 16 15:15	27°M233'58	22°44'19	behind sun begin	11640 Aug 31 06:56	19° m) 50'49	
desc. node	11639 Oct 16 19:05	27°ML43'15	,	behind sun end	11640 Aug 31 15:06	20° m/33'12	
	11639 Oct 19 09:47	0° ∡ 7			11640 Sep 05 03:02	0∘ ಹ	
retrograde	11639 Oct 29 17:54	4° ₹ 104'58		evening rise	11640 Sep 07 22:16	5° £ 53'58	
evening set	11639 Nov 02 12:03	3° ∡ ³34'10			11640 Sep 20 23:51	0° M	
min. Earth dist.	11639 Nov 09 23:35	0° ₹ 11'18	0.54962 AU	evening max el	11640 Sep 27 08:38	7° ML 51'45	21°09'12
min. Burm digt.	11639 Nov 10 07:32	30°RML	0.0 1902 110	desc. node	11640 Oct 02 16:26	11°ML58'12	21 03 12
inferior conj	11639 Nov 11 02:46	29°M32'34	-5°47'25	retrograde	11640 Oct 09 05:16	13°ML45'04	
minimum elong	11639 Nov 10 23:52		5°46'38	evening set	11640 Oct 11 17:18	13°MJ30'26	
morning rise	11639 Nov 19 13:12	25°M44'10	3 1030	inferior conj	11640 Oct 20 18:44	9°M35'43	-4°58'42
direct	11639 Nov 22 16:54	25°M21'14		minimum elong	11640 Oct 20 09:18	9° M 49'00	4°56'10
	11639 Dec 03 07:10	0° √		min. Earth dist.	11640 Oct 21 06:29	9° M .19'10	0.54580 AU
morning max el	11639 Dec 03 07:10 11639 Dec 04 04:03	0° ∡ 747'31	21°02'44	morning rise	11640 Oct 29 01:48	5°M44'07	3.5 1500 AU
asc. node	11639 Dec 04 04:05	8° х 4731	21 02 77	direct	11640 Nov 02 01:05	5°M10'15	
450. HOGO	11639 Dec 10 10:10 11639 Dec 22 14:36	0°중		morning max el	11640 Nov 14 21:00	11°ML19'22	22043132
morning set	11639 Dec 22 14:30 11639 Dec 23 18:43	0 3 2° る 25'09		asc. node	11640 Nov 26 07:13	26°M13'07	22 JJ
morning set	11037 DCC 23 10.43	2 023 09		use. Houe	11640 Nov 28 12:13	20 IIC13 07 0° ∡ 7	
superior conj	11639 Dec 31 02:50	17° る 44'33	1°26'44	morning set	11640 Nov 28 12.13 11640 Dec 07 05:49	0 x . 17° ∡ 12'17	
minimum elong	11639 Dec 31 02:30 11639 Dec 31 05:02	17 844 33 17° 8 55'50		morning set	11640 Dec 07 03.49 11640 Dec 13 04:53	0°る	
max. Earth dist.	11640 Jan 04 22:13	17 83330 27° 8 26'05	1.35519 AU		110-10 1000 10 104.00	ÿ O	
max. Lattii uist.	11640 Jan 06 05:48	27 3 2603	1.33317 AU	superior conj	11640 Dec 14 05:35	2° る 12'12	1°36'12
	110-10 3411 00 03.40	· ~		superior conj	110-10 1000 1- 00.00	2 01212	1 30 12

minimum elong	11640 Dec 14 06:41	2° る 18'06	1°36'54	minimum elong	11641 Nov 28 13:25	16° ∡ 52'23	1°39'51
max. Earth dist.	11640 Dec 17 14:47	9° ප 19'51	1.33791 AU	max. Earth dist.	11641 Nov 30 15:09	21° ∡ °22'57	1.32494 AU
evening rise	11640 Dec 22 05:07	18° る 36'36			11641 Dec 04 16:44	ರ°0	
	11640 Dec 28 06:50	0° ≈		evening rise	11641 Dec 05 22:24	2° る 32'21	
desc. node	11640 Dec 29 14:34	2° ≈ 20'53		desc. node	11641 Dec 16 11:32	22° る 20'56	
	11641 Jan 16 18:24	0° ∀			11641 Dec 21 02:58	0° ≈	
evening max el	11641 Jan 25 21:37	10° ¥ 21′04	27°10'27	evening max el	11642 Jan 08 09:32	23° ≈ 33'27	27°31'20
retrograde	11641 Feb 08 08:04	17° ¥ 45′01			11642 Jan 17 14:54	0° ∀	
evening set	11641 Feb 15 00:35	15°) 12′18		retrograde	11642 Jan 22 03:26	0°) 55'44	
min. Earth dist.	11641 Feb 18 22:39	11°) €29'31	0.65187 AU		11642 Jan 26 10:20	30° R ≈	
inferior conj	11641 Feb 21 05:10	8°) 57′44		evening set	11642 Jan 29 02:03	28° ≈ 28'38	
minimum elong	11641 Feb 21 05:45	8° ¥ 56′07	0°19'31	min. Earth dist.	11642 Feb 01 20:24	25° ≈ 16′05	0.63382 AU
asc. node	11641 Feb 22 05:44	7°) 49′58		inferior conj	11642 Feb 04 13:56	22° ≈ 31'55	
morning rise	11641 Feb 27 12:27	3° ¥ 26′52		minimum elong	11642 Feb 04 16:51	22° ≈ 24'35	1°28'00
direct	11641 Mar 02 04:54	2°) 48′30		asc. node	11642 Feb 09 02:59	18° ≈ 30′23	
morning max el	11641 Mar 08 13:41	6°) €08'24	17°59'33	morning rise	11642 Feb 11 09:53	17°≈16'36	
	11641 Mar 24 20:26	0° Υ		direct	11642 Feb 13 18:47	16° ≈ 49′28	
morning set	11641 Mar 26 12:15	2° Y 43'44		morning max el	11642 Feb 20 07:25		17°47'04
desc. node	11641 Mar 27 15:42	4° Ƴ 36'33			11642 Feb 27 16:47	0°) {	
	11641 4 00 20 47	2500055145	1020102	morning set	11642 Mar 08 15:38	15°) €04'30	
superior conj	11641 Apr 09 20:47	25° Y 55'45		desc. node	11642 Mar 14 12:21	25°) €07'13	
minimum elong	11641 Apr 09 11:47	25° Y 20'07	1°28'19		11642 Mar 17 09:55	0 ° Υ	
Earth diet	11641 Apr 12 10:43	0°8 1°824'20	1 45500 ATT		11(42 M 21 02:21	6° Ƴ 06'05	0949124
max. Earth dist.	11641 Apr 13 08:11 11641 Apr 25 22:57	20° 8 59'18	1.45508 AU	superior conj minimum elong	11642 Mar 21 02:21 11642 Mar 20 21:18	5° Υ 45'20	
evening rise	11641 May 01 19:56	20 O 3918		max. Earth dist.	11642 Mar 27 02:50	15° Υ 49'38	1.44588 AU
greatest brilliancy	11641 May 09 17:11	0 H 11° H 52'47	-0.7m	evening rise	11642 Apr 05 10:18	0° 8 22'35	1.44300 AU
asc. node	11641 May 21 03:10	26° I I54'30	-0.7111	evening rise	11642 Apr 05 04:25	0°8	
evening max el	11641 May 21 09:37	20 H 34 30 27° H 10′54	19°39'02		11642 Apr 25 12:49	0°U	
evening max er	11641 May 24 18:33	0°95	17 37 02	evening max el	11642 May 04 10:32	10° ∏ 55'20	20°41'53
retrograde	11641 May 28 17:08	1° © 19'48		asc. node	11642 May 08 00:21	13° П 59'42	20 41 33
evening set	11641 Jun 01 10:32	29°II58'58		retrograde	11642 May 12 15:59	15° ∏ 42'23	
e venning see	11641 Jun 01 09:57	30°R∏		evening set	11642 May 16 19:03	14° ∏ 05'30	
inferior conj	11641 Jun 06 19:04	•	3°15'40	inferior conj	11642 May 22 01:34		3°11'10
minimum elong	11641 Jun 06 19:12	24° ∏ 02'34	3°14'56	minimum elong	11642 May 22 00:42	7° П 59'59	3°10'25
min. Earth dist.	11641 Jun 07 22:54	22° I I30'24	0.67364 AU	min. Earth dist.	11642 May 22 15:28	7° Ⅱ 08'59	0.68268 AU
morning rise	11641 Jun 12 03:31	17° Ⅱ 41'41		morning rise	11642 May 27 06:06	1° Ⅱ 38'50	
direct	11641 Jun 18 02:02	15° Ⅱ 04'33		•	11642 May 29 14:29	30° ₹ 8	
desc. node	11641 Jun 23 16:20	16° Ⅱ 54'43		direct	11642 Jun 01 16:19	29° 8 15'01	
morning max el	11641 Jun 30 05:03	22° II 20'32	25°21'22		11642 Jun 04 23:59	Π $^{\circ}0$	
	11641 Jul 06 22:05	0 \circ \odot		desc. node	11642 Jun 10 13:22	3° Ⅱ 49′02	
	11641 Jul 27 11:47	$0^{\circ}\Omega$		morning max el	11642 Jun 12 14:58	5° Ⅱ 47'36	23°53'39
morning set	11641 Aug 05 05:10	14° Ω 59'42			11642 Jul 01 08:19	0 \circ \odot	
max. Earth dist.	11641 Aug 08 20:15	21° Ω 39'36	1.36309 AU	morning set	11642 Jul 17 22:42	26° © 22'29	
	11641 Aug 13 04:46	0° ™			11642 Jul 20 01:08	$0^{\circ}\Omega$	
				max. Earth dist.	11642 Jul 21 17:46	2° Ω 58'24	1.38551 AU
superior conj	11641 Aug 15 01:46	3° Mp 42'00					
minimum elong	11641 Aug 15 03:01		0°19'44	superior conj	11642 Jul 29 03:12	16° Ω 30'49	
asc. node	11641 Aug 17 02:58	7° Mp 48'29		minimum elong	11642 Jul 29 06:52	16° Ω 48'12	0°53'17
evening rise	11641 Aug 23 04:08	20° m 07'49		asc. node	11642 Aug 03 23:43	27° Ω 48'55	
	11641 Aug 28 03:33	0∘ ⊽			11642 Aug 05 02:26	0° m/y	
evening max el	11641 Sep 09 15:08	18° ≏ 49'37	19°51'30	evening rise	11642 Aug 07 03:32	4° mp 01'03	
retrograde	11641 Sep 19 20:21	23° £ 54'46			11642 Aug 22 21:24	0∘ ʊ	10055100
desc. node	11641 Sep 19 13:48	23° £ 54'34		evening max el	11642 Aug 23 11:01	0° Ω 34'56	18°55'08
evening set	11641 Sep 21 17:58	23° Ω 44'59	2022120	retrograde	11642 Sep 01 02:12	4° £ 53'53	
inferior conj	11641 Sep 30 15:45	19° Ω 43'40		evening set	11642 Sep 02 23:22	4° £ 42'21	
minimum elong	11641 Sep 30 07:02	19° £ 57'01		desc. node	11642 Sep 06 11:12	3° Ω 26'13	1020150
min. Earth dist.	11641 Oct 02 15:38 11641 Oct 08 18:37	18° ♀ 30'24 15° ♀ 28'03	0.55135 AU	inferior conj	11642 Sep 11 05:55	0° ჲ 24'47 0° ჲ 31'34	
morning rise direct	11641 Oct 08 18:37 11641 Oct 13 13:37	15° ± 28′03 14° £ 37'47		minimum elong	11642 Sep 11 02:05 11642 Sep 11 19:52	30°RM)	1 20 30
morning max el	11641 Oct 13 13:37 11641 Oct 27 07:59	14° 2 37'47 21° 2 25'49	24°31'37	min. Earth dist.	11642 Sep 11 19:32 11642 Sep 14 05:32		0.56538 AU
morning max ci	11641 Nov 03 18:35	0°M	27 JIJI	morning rise	11642 Sep 14 03.32 11642 Sep 19 01:33	25° m 32'22	0.50556 AU
asc. node	11641 Nov 13 04:05	บาน 14°M54'07		direct	11642 Sep 19 01.33 11642 Sep 24 15:25	23 m/32 22 24° m/18'16	
asc. 110de	11641 Nov 20 19:21	0° √		anot	11642 Oct 07 01:45	0° Ω	
morning set	11641 Nov 21 17:41	1° × 758'49		morning max el	11642 Oct 08 20:55	0 — 1° Ω 38'18	26°09'25
0 000					11642 Oct 28 20:54	0°M	==
superior conj	11641 Nov 28 13:28	16° х 52'40	1°39'08	asc. node	11642 Oct 31 00:53	4°M05'13	
r	0 15.20						

	1161037 06 01 05	1.0000 2.0150			11612 0 06 07 50	40 30 40	
morning set	11642 Nov 06 04:35	16° ™ 38'59		direct	11643 Sep 06 07:50	4° m 39'48	
	11642 Nov 12 06:32	0° ∡ ¹		morning max el	11643 Sep 20 16:17	12° m 22'39	27°20'25
					11643 Oct 04 13:16	0∘ ত	
superior conj	11642 Nov 13 00:14	1° ∡ "38′17	1°35'59	asc. node	11643 Oct 17 21:40	23° ≏ 38'26	
minimum elong	11642 Nov 12 23:09	1° ∡ ³32'17	1°36'34		11643 Oct 20 23:54	0° M	
max. Earth dist.	11642 Nov 13 21:17	3° ∡ ³35′03	1.31677 AU	morning set	11643 Oct 21 12:50	1° M 08'18	
evening rise	11642 Nov 19 23:31	16° ∡ 747′08					
	11642 Nov 26 14:38	0°ප		superior conj	11643 Oct 28 11:59	16°M23'28	1°27'07
desc. node	11642 Dec 03 08:34	11° る 55'01		minimum elong	11643 Oct 28 10:08	16°M13'10	1°27'26
	11642 Dec 16 00:26	0° ≈		max. Earth dist.	11643 Oct 28 06:09	15°M50'56	1.31356 AU
evening max el	11642 Dec 21 17:28	6° ≈ 08′23	27°20'50		11643 Nov 03 16:07	0° ∡ ¹	
retrograde	11643 Jan 04 15:11	13° ≈ 24′28		evening rise	11643 Nov 04 06:06	1° ∡ 14'53	
evening set	11643 Jan 11 14:10	11° ≈ 11'50			11643 Nov 19 16:05	0° ප	
min. Earth dist.	11643 Jan 15 07:57	8° ≈ 22'50	0.61333 AU	desc. node	11643 Nov 20 05:43	0° る 53'02	
inferior conj	11643 Jan 18 09:43	5° ≈ 39'20	-2°46'22	evening max el	11643 Dec 03 19:07	17° る 56'12	26°36'01
minimum elong	11643 Jan 18 15:27	5° ≈ 26'37	2°43'34	retrograde	11643 Dec 17 17:51	25° る 03'29	
morning rise	11643 Jan 25 19:30	0° ≈ 42'34		evening set	11643 Dec 24 09:01	23° る 14'35	
asc. node	11643 Jan 27 00:14	0° ≈ 26'56		min. Earth dist.	11643 Dec 28 09:05	20°₹38'02	0.59195 AU
direct	11643 Jan 27 23:14	0°≈23'00		inferior conj	11643 Dec 31 13:05	18° る 11'07	
morning max el	11643 Feb 03 23:43	3°≈55'16	17°52'36	minimum elong	11643 Dec 31 21:05	17° ろ 55'36	4°01'06
morning set	11643 Feb 19 15:09	28° ≈ 21'34	17 32 30	morning rise	11644 Jan 08 11:58	17 さ 3530	4 01 00
morning sec	11643 Feb 20 12:53	0° ∺		direct	11644 Jan 10 14:13	13° る 19'41	
desc. node	11643 Mar 01 08:59	0 X 15° ¥ 44'07		asc. node	11644 Jan 13 21:26	13 3 1941 14° 3 00'35	
desc. node	11045 Mai 01 08.39	13 7 44 07				14 3 00 33	10017121
	11(42) 4 02 00 22	170 1 25157	0007125	morning max el	11644 Jan 18 11:00		18°17'31
superior conj	11643 Mar 02 08:32	17° ¥ 25'57			11644 Jan 27 12:44	0° ≈	
minimum elong	11643 Mar 02 07:53	17° ¥ 23'07	0°0′/14	morning set	11644 Feb 03 04:58	12° ≈ 17'41	
behind sun begin	11643 Mar 02 00:21	16°) € 50'36					
behind sun end	11643 Mar 02 15:25	17° ¥ 55'34		superior conj	11644 Feb 12 13:31	29° ≈ 49'05	0°28'27
max. Earth dist.	11643 Mar 09 17:19	29°) 48′00	1.43046 AU	minimum elong	11644 Feb 12 15:33	29° ≈ 58'19	0°28'35
	11643 Mar 09 20:15	0° Υ			11644 Feb 12 15:55	0° ∀	
evening rise	11643 Mar 16 05:21	10° Y 12'52		desc. node	11644 Feb 16 05:38	6°) 23′44	
	11643 Mar 29 07:13	0 \circ 8		max. Earth dist.	11644 Feb 20 03:13	13° ∺ 09'03	1.41062 AU
evening max el	11643 Apr 17 06:03	24° 8 40'59	21°55'47	evening rise	11644 Feb 24 18:44	20° ¥ 54′08	
asc. node	11643 Apr 24 21:35	29° 8 57'27			11644 Mar 01 11:27	0° Y	
	11643 Apr 25 01:40	Π $\circ 0$			11644 Mar 22 11:59	9° 8	
retrograde	11643 Apr 26 13:58	0° Ⅱ 11′00		evening max el	11644 Mar 29 21:46	8° 8 29'07	23°15'45
	11643 Apr 28 01:00	30° ₹ 8		retrograde	11644 Apr 09 09:29	14° 8 40'25	
evening set	11643 May 01 03:35	28° 8 18'40		asc. node	11644 Apr 10 18:54	14° 8 31'17	
inferior conj	11643 May 06 10:26	21° 8 59'48	2°55'48	evening set	11644 Apr 14 10:31	12° 8 33'46	
minimum elong	11643 May 06 08:47	22° 8 05'34	2°54'58	inferior conj	11644 Apr 19 19:41	6° と 07'32	2°30'25
min. Earth dist.	11643 May 06 11:18	21° 8 56'46	0.68706 AU	minimum elong	11644 Apr 19 17:35	6° 8 14'47	2°29'30
morning rise	11643 May 11 13:48	15° 8 46'44		min. Earth dist.	11644 Apr 19 08:07	6° ∀ 47'28	0.68691 AU
direct	11643 May 16 10:53	13° 8 41'19		morning rise	11644 Apr 25 00:33	0° ප 00'57	
morning max el	11643 May 26 02:23	19° 8 22'15	22°24'11	Č	11644 Apr 25 01:02	30° ₹ Υ	
desc. node	11643 May 28 10:19	21° 8 51'10		direct	11644 Apr 29 08:31	28° Y 16'33	
	11643 Jun 04 00:57	0°II			11644 May 04 02:27	0°8	
	11643 Jun 24 12:10	0° ©		morning max el	11644 May 07 18:39	3° 8 06'44	21°01'06
morning set	11643 Jun 28 15:37	6°538'24		desc. node	11644 May 14 07:09	10° 8 42'18	
max. Earth dist.	11643 Jul 03 16:11	14° © 57'27	1.40850 AU	desc. node	11644 May 27 23:07	0°II	
Zurur dist.	-10.5 341 05 10.11	5/2/	1	morning set	11644 Jun 07 07:02	15° ∏ 46'22	
superior conj	11643 Jul 11 11:44	28°932'31	-1°26'35	max. Earth dist.	11644 Jun 14 20:52		1.42930 AU
minimum elong	11643 Jul 11 17:44	28°959'25		max. Lartii dist.	11644 Jun 16 04:25	0°95	1.42)30 AO
minimum ciong	11643 Jul 12 07:12	0°Ω	1 20 28		11044 Juli 10 04.23	0 3	
avanina riaa	11643 Jul 21 17:08	17° Ω 25'18		aumariar aani	11644 Jun 21 22:54	9° © 37'04	1954142
evening rise				superior conj			
asc. node	11643 Jul 21 20:31	17° Ω 41'11		minimum elong	11644 Jun 22 05:29	10°505'00	1-34-36
	11643 Jul 28 13:49	0° Mp	10010156	evening rise	11644 Jul 03 16:38	0° Ω 09'32	
evening max el	11643 Aug 06 17:00	13° Mp 02'13	18°19'56		11644 Jul 03 14:30	0° Ω	
retrograde	11643 Aug 14 02:58	16° Mp 46'37		asc. node	11644 Jul 07 17:24	7° Ω 20′26	1000 407
evening set	11643 Aug 16 06:21	16° Mp 28'40	0011120	evening max el	11644 Jul 20 04:52	26° Ω 00'44	18°04'37
inferior conj	11643 Aug 23 17:48	11° m 50'46	0°11'20	retrograde	11644 Jul 26 20:50	29° £ 25'39	
minimum elong	11643 Aug 23 18:11	11° m 49'57	0°10'52	evening set	11644 Jul 29 08:11	28° Ω 57'28	
transit middle	11643 Aug 23 18:11	11° m)49'57	0°10'52	inferior conj	11644 Aug 05 02:00	23° Ω 59'16	1°29'26
transit begin	11643 Aug 23 15:36	11° m 55'18		minimum elong	11644 Aug 05 04:23	23° Ω 53'33	1°28'08
transit end	11643 Aug 23 20:47	11° m)44'36		min. Earth dist.	11644 Aug 08 06:22	20° Ω 57'36	0.60805 AU
desc. node	11643 Aug 24 08:36	11° m)19'59		desc. node	11644 Aug 10 05:59	19° Ω 15'55	
min. Earth dist.	11643 Aug 27 01:58	9° M 06'04	0.58537 AU	morning rise	11644 Aug 11 21:48	18° Ω 04'00	
morning rise	11643 Aug 31 02:31	6° Mg 22'37		direct	11644 Aug 18 12:16	15° Ω 53'57	

morning max el	11644 Sep 01 18:41	23° Ω 50'46	27°54'54	desc. node	11645 Jul 28 03:17	28° © 53'33	
	11644 Sep 07 07:45	0° m		direct	11645 Aug 01 02:35	28°901'14	
	11644 Sep 26 20:32	0∘ ⊽			11645 Aug 07 14:05	$0^{\circ}\Omega$	
asc. node	11644 Oct 03 18:24	13° ≏ 26'44		morning max el	11645 Aug 15 02:36	6°Ω03'22	27°50'50
morning set	11644 Oct 04 16:35	15° £ 21'14		8	11645 Sep 02 06:56	0° m/	_, _,
max. Earth dist.	11644 Oct 10 14:04	28° £ 00'55	1.31536 AU	morning set	11645 Sep 18 13:40	29° m) 12'37	
max. Earm dist.	11644 Oct 11 11:39	0°ML	1.51550 AU	morning set	•	0° ⊽	
	11044 Oct 11 11:39	บาแน		,	11645 Sep 18 23:02		
				asc. node	11645 Sep 20 15:07	3° Ω 25'18	
superior conj	11644 Oct 11 22:50	1°ML01'55		max. Earth dist.	11645 Sep 23 17:15	9° ≏ 55'31	1.32228 AU
minimum elong	11644 Oct 11 20:36	0°M49'34	1°12'44				
evening rise	11644 Oct 18 16:00	15°M49'12		superior conj	11645 Sep 26 06:55	15° ≏ 28'30	0°53'00
	11644 Oct 25 14:42	0° ∡ ¹		minimum elong	11645 Sep 26 04:49	15° ≏ 17'01	0°52'45
desc. node	11644 Nov 06 02:58	19° ∡ 00'42			11645 Oct 02 22:41	0° M	
evening max el	11644 Nov 14 12:39	28° ⋠ 52′20	25°19'40	evening rise	11645 Oct 03 03:19	0°M24'58	
	11644 Nov 15 18:13	0°₹			11645 Oct 19 08:23	0° ∡ ¹	
retrograde	11644 Nov 28 09:12	5° る 50'04		desc. node	11645 Oct 24 00:16	5° ∡ ¹58'39	
evening set	11644 Dec 04 06:01	4° ට 31'48		evening max el	11645 Oct 26 23:34	9° ∡ ¹06'58	23°42'37
min. Earth dist.	11644 Dec 09 00:46	1° ප 52'06	0.57183 AU	retrograde	11645 Nov 09 11:53	15° ∡ ¹51'35	
inferior conj	11644 Dec 11 20:52	29° х 57'56		evening set	11645 Nov 14 02:43	15° ∡ '05'07	
minimum elong	11644 Dec 12 04:27	29° × ⁷ 45'11	5°09'19	min. Earth dist.	11645 Nov 20 09:51	12°×703'19	0.55578 AU
minimum ciong	11644 Dec 11 19:38	30°R. ₹	3 07 17	inferior conj	11645 Nov 22 08:09	10° ×7 54'32	
		•		3			
morning rise	11644 Dec 20 05:11	25° ₹ 44'24		minimum elong	11645 Nov 22 10:13	10° ₹ 51'27	3-4/48
direct	11644 Dec 22 11:46	25° ₹ 29'04		morning rise	11645 Nov 30 19:35	7° ⋌ ¹00'25	
asc. node	11644 Dec 30 18:35	29° ⋌ 108'29		direct	11645 Dec 03 13:47	6° ∡ ¹41'32	
morning max el	11644 Dec 31 13:21	29° ∡ 51′56	19°03'49	morning max el	11645 Dec 14 03:07	11° ∡ ¹42'28	20°13'02
	11644 Dec 31 16:40	0°ಕ		asc. node	11645 Dec 17 15:40	15° ∡ ³35'54	
morning set	11645 Jan 17 04:36	26° පි 39'55			11645 Dec 26 17:19	0°ಕ	
	11645 Jan 18 21:00	0° ≈		morning set	11646 Jan 01 10:36	11° る 17'30	
superior conj	11645 Jan 25 12:51	13° ≈ 03'16	0°57'09	superior conj	11646 Jan 09 01:46	26° る 54'42	1°18'05
minimum elong	11645 Jan 25 15:47	13° ≈ 17′23	0°57'20	minimum elong	11646 Jan 09 04:26	27° る 08'06	1°18'28
max. Earth dist.	11645 Feb 01 10:08	25° ≈ 50′29	1.38856 AU		11646 Jan 10 14:51	0° ≈	
desc. node	11645 Feb 02 02:21	27° ≈ 02'51		max. Earth dist.	11646 Jan 14 17:17	7° ≈ 58'04	1.36670 AU
	11645 Feb 03 18:32	0° ∀		evening rise	11646 Jan 18 12:01	14° ≈ 59'22	
evening rise	11645 Feb 05 05:33	2°) 31'46		desc. node	11646 Jan 19 23:07	17° ≈ 37'11	
, and the second	11645 Feb 22 16:18	$0^{\circ}\Upsilon$			11646 Jan 27 05:22	0° ₩	
evening max el	11645 Mar 12 11:39	22° Y 20'11	24°35'28		11646 Feb 17 08:35	$0^{\circ}\Upsilon$	
retrograde	11645 Mar 24 01:21	29° Y °05'45		evening max el	11646 Feb 23 01:01	6° Υ 10'31	25°48'03
asc. node	11645 Mar 28 16:15	27° Υ 29'52		retrograde	11646 Mar 07 12:36	13° Y 20'16	20 .005
evening set	11645 Mar 29 14:21	26° Υ 46'39		evening set	11646 Mar 13 13:25	10° Υ 51'48	
min. Earth dist.	11645 Apr 03 03:43	21° Υ 35'58	0.68236 AU	asc. node	11646 Mar 15 13:36	8° Υ 55'55	
inferior conj		20° Υ 16'48			11646 Mar 17 19:55	6° Υ 16'18	0.67359 AU
,	11645 Apr 04 03:27		1°55'20	min. Earth dist.		4° Υ 23'02	
minimum elong	11645 Apr 04 01:20	20° Y 23'53	1°54'29	inferior conj	11646 Mar 19 07:46		1°10'31
morning rise	11645 Apr 09 12:27	14° Y 18′04		minimum elong	11646 Mar 19 06:09	4° Υ 28'08	1°09'58
direct	11645 Apr 13 07:52	12° Y 55′01			11646 Mar 23 03:43	30° ₹	
morning max el	11645 Apr 20 18:21	17° Y 03'43	19°50'05	morning rise	11646 Mar 24 23:29	28° ∺ 33'39	
desc. node	11645 May 01 03:55	0° 8 09'15		direct	11646 Mar 28 07:18	27°) € 30′27	
	11645 May 01 01:19	0°8			11646 Apr 02 18:49	0° Υ	
greatest brilliancy	11645 May 03 21:03	4° 8 04'13	-0.6m	morning max el	11646 Apr 04 01:43	1° Y 10'30	18°54'06
morning set	11645 May 17 07:26	24° 8 18'51		greatest brilliancy	11646 Apr 17 20:27	19° Ƴ 46'11	-0.8m
	11645 May 20 23:46	Π $\circ 0$		desc. node	11646 Apr 18 00:36	20° Ƴ 01'58	
max. Earth dist.	11645 May 28 08:56	11° Ⅱ 35′02	1.44534 AU		11646 Apr 24 11:44	0° 8	
				morning set	11646 Apr 26 14:34	3° 8 17'20	
superior conj	11645 Jun 02 10:02	19° Ⅱ 40'14	-2°11'22	max. Earth dist.	11646 May 11 01:59	25° 8 50'55	1.45489 AU
minimum elong	11645 Jun 02 13:06	19° Ⅱ 52'36	2°12'02		•		
C	11645 Jun 08 17:15	0ංම		superior conj	11646 May 13 00:21	28° 8 52'48	-2°10'07
evening rise	11645 Jun 15 21:11	12° © 03'01		minimum elong	11646 May 12 20:01	28° 8 35'49	
asc. node	11645 Jun 24 14:23	26°5941'43			11646 May 13 17:27	0°II	
use. noue	11645 Jun 26 16:20	0°Ω		evening rise	11646 May 28 02:22	22° I I56'29	
evening max el	11645 Jul 03 18:53	9° Ω 21'23	18°08'14	2.4	11646 Jun 01 10:57	0°95	
retrograde	11645 Jul 10 03:42	12° Ω 41'44	10 00 17	asc. node	11646 Jun 11 11:24	15° 9 37'54	
-	11645 Jul 12 23:06	12° Ω 00'42					18°30'06
evening set			2022121	evening max el	11646 Jun 17 07:51	22°955'36	10 30 00
inferior conj	11645 Jul 19 02:49	6° Ω 43'58		retrograde	11646 Jun 23 19:05	26°925'17	
minimum elong	11645 Jul 19 05:26	6° Ω 36'53		evening set	11646 Jun 26 22:36	25°929'37	2056120
min. Earth dist.	11645 Jul 21 20:06	3° Ω 47'38	0.63039 AU	inferior conj	11646 Jul 02 16:09	19°956'29	
morning rise	11645 Jul 25 09:57	0° £ 31'46		minimum elong	11646 Jul 02 18:01	19°950'52	2°55'29
	11645 Jul 26 03:48	30°Rூ		min. Earth dist.	11646 Jul 04 19:17	17° © 23'34	0.65020 AU

morning rise	11646 Jul 08 12:24	13° © 36'04		minimum elong	11647 Jun 16 15:09	3° © 26'37	3°11'57
direct	11646 Jul 15 01:14	10° © 54'46		min. Earth dist.	11647 Jun 18 02:40	1°\$32'05	0.66632 AU
desc. node	11646 Jul 15 00:30	10°954'46		mm. Latin dist.	11647 Jun 19 08:25	30°R I I	0.00032 AC
morning max el	11646 Jul 28 13:17	18°951'19	27°12'22	morning rise	11647 Jun 22 02:18	27° I I06'49	
morning man er	11646 Aug 06 23:36	0°Ω	-, 12-2	direct	11647 Jun 28 07:00	24° I I25'11	
	11646 Aug 26 06:34	0° m)		desc. node	11647 Jul 01 21:39	25° I I11'13	
morning set	11646 Sep 02 01:23	12° m/36'00			11647 Jul 08 21:55	0.8e	
max. Earth dist.	11646 Sep 06 12:05	21° m)27'47	1.33433 AU	morning max el	11647 Jul 11 00:06	2° 5 01'10	26°07'07
asc. node	11646 Sep 07 11:50	23° m/29'54		C	11647 Aug 01 02:33	$0^{\circ}\Omega$	
	-			morning set	11647 Aug 16 00:13	25° Ω 21'24	
superior conj	11646 Sep 10 10:07	29° m 37'47	0°28'13		11647 Aug 18 11:29	0° m)	
minimum elong	11646 Sep 10 08:45	29° Mp 30'31	0°27'52	max. Earth dist.	11647 Aug 19 20:14	2° m 37'17	1.35134 AU
	11646 Sep 10 14:19	0∘ ⊽					
evening rise	11646 Sep 17 14:12	14° ≏ 57'09		superior conj	11647 Aug 25 05:51	13° m 22'11	-0°01'05
	11646 Sep 25 02:20	0° M		minimum elong	11647 Aug 25 05:56	13° TD 22'35	0°01'22
evening max el	11646 Oct 08 11:44	19°M12'49	22°02'13	behind sun begin	11647 Aug 24 23:56	12° m 51'59	
desc. node	11646 Oct 10 21:36	21°M22'00		behind sun end	11647 Aug 25 11:56	13° m 53'15	
retrograde	11646 Oct 21 03:36	25°M30'38		asc. node	11647 Aug 25 08:32	13°m/35'52	
evening set	11646 Oct 24 07:26	25°M08'21		evening rise	11647 Sep 01 22:30	29° m 19'11	
min. Earth dist.	11646 Nov 01 16:42	21°M26'38	0.54679 AU		11647 Sep 02 06:24	0∘ ত	
inferior conj	11646 Nov 02 03:59	21°M10'48		evening max el	11647 Sep 20 10:18	29° Ω 45'46	20°33'44
minimum elong	11646 Nov 01 21:37	21°M19'44	5°32'35		11647 Sep 20 16:06	0° ™	
morning rise	11646 Nov 10 13:08	17°M23'47		desc. node	11647 Sep 27 18:59	4°M40'50	
direct	11646 Nov 14 00:41	16°M57'01	21042156	retrograde	11647 Oct 01 15:03	5°M19'17	
morning max el	11646 Nov 26 03:06	22°M41'38	21°43'56	evening set	11647 Oct 03 18:33	5°M07'56	4022107
,	11646 Dec 02 09:26	0° ⊼ ¹		inferior conj	11647 Oct 12 20:19	1°M12'12	
asc. node	11646 Dec 04 12:39	3° ∡ 706'35		minimum elong	11647 Oct 12 10:19	1°M26'40	
morning set	11646 Dec 16 20:25	26°水03'03 0°る		min. Earth dist.	11647 Oct 14 00:37	0°M31'16	0.54696 AU
	11646 Dec 18 17:21	0.0		marning rica	11647 Oct 14 22:31	30°R ≏ 27° ₽ 12'16	
gunariar agni	11646 Dec 24 00:24	11° る 12'16	1021124	morning rise direct	11647 Oct 21 01:42 11647 Oct 25 09:17	26° £ 32'12	
superior conj minimum elong	11646 Dec 24 00:24 11646 Dec 24 02:09	11 31210 11° 3 21'27		direct	11647 Nov 04 01:22	0°M	
max. Earth dist.	11646 Dec 28 05:11	11 02127 19° る 50'16	1.34729 AU	morning max el	11647 Nov 04 01.22 11647 Nov 07 16:34	2°M59'31	23°29'34
evening rise	11647 Jan 01 10:48	28°る08'30	1.54/2) AO	asc. node	11647 Nov 21 09:33	21°M25'15	23 27 34
evening rise	11647 Jan 02 10:20	20°≈		ase. Houe	11647 Nov 26 01:14	0° √	
desc. node	11647 Jan 06 19:59	8°≈02'38		morning set	11647 Dec 01 08:01	10° × 50'10	
acse. noue	11647 Jan 20 11:30	0° ∀		morning sec	11017 200 01 00.01	10 % 20 10	
evening max el	11647 Feb 05 14:30	19°) 54'11	26°46'16	superior conj	11647 Dec 08 05:37	25° х 46′13	1°38'12
retrograde	11647 Feb 18 18:31	27°) 16'43		minimum elong	11647 Dec 08 06:13	25° х 49′31	1°38'56
evening set	11647 Feb 25 05:53	24°) (43'38		Č	11647 Dec 10 04:55	ರ°0	
min. Earth dist.	11647 Mar 01 06:38	20°) 42′10	0.66084 AU	max. Earth dist.	11647 Dec 11 00:48	1° る 45'34	1.33179 AU
asc. node	11647 Mar 02 10:55	19° ¥ 19'31		evening rise	11647 Dec 15 22:15	11° る 49'32	
inferior conj	11647 Mar 03 06:30	18°) 21'44	0°15'51	desc. node	11647 Dec 24 16:55	28° る 13'38	
minimum elong	11647 Mar 03 06:04	18°) €23'02	0°15'54		11647 Dec 25 17:32	0° ≈	
transit middle	11647 Mar 03 06:04	18° ¥ 23′02	0°15'54		11648 Jan 15 20:54	0° ∀	
transit begin	11647 Mar 03 05:41	18° ¥ 24′07		evening max el	11648 Jan 19 03:32	3° ¥ 21′38	27°22'54
transit end	11647 Mar 03 06:26	18° ¥ 21′56		retrograde	11648 Feb 01 18:07	10°) 46′23	
morning rise	11647 Mar 09 07:26	12°) 43′31		evening set	11648 Feb 08 13:35	8° ¥ 15′10	
direct	11647 Mar 12 04:57	11° ¥ 57'14		min. Earth dist.	11648 Feb 12 09:49	4°) 45′36	
morning max el	11647 Mar 18 15:11	15° ¥ 21′25	18°14'33	inferior conj	11648 Feb 14 21:11	2° ∺ 07'02	
	11647 Mar 29 10:53	0° Υ		minimum elong	11648 Feb 14 22:40	2°) €03'03	0°47'32
desc. node	11647 Apr 04 21:15	10° Y 13'35			11648 Feb 16 22:15	30° R ≈	
morning set	11647 Apr 06 22:36	13° Y 31'38		asc. node	11648 Feb 17 08:13	29° ≈ 36′02	
	11647 Apr 17 06:50	0°8		morning rise	11648 Feb 21 09:37	26°≈42'21	
	11645 4 22 05 10	501 150111	10.40140	direct	11648 Feb 23 22:30	26°≈09'20	15050104
superior conj	11647 Apr 22 07:10	7° 8 52'44		morning max el	11648 Mar 01 08:09	29°≈28'52	17°52'04
minimum elong	11647 Apr 21 21:55	7° 8 16'32		. ,	11648 Mar 01 20:29	0°) (10/50	
max. Earth dist.	11647 Apr 23 21:21	10° 8 22′02 0° Ⅱ	1.45714 AU	morning set	11648 Mar 18 11:31	25° 升 10′58 0° Ƴ	
avaning rise	11647 May 06 11:32	0°П 2°П53'11		desa nada	11648 Mar 21 08:36	0° Υ 38'47	
evening rise greatest brilliancy	11647 May 08 07:58 11647 May 19 13:21	2° Д 33°11 20° Д 16'29	-0.7m	desc. node	11648 Mar 21 17:54	0 1304/	
greatest offiliality	11647 May 19 13:21 11647 May 26 05:42	20°Щ1629	-U. /III	superior conj	11648 Apr 01 00:38	17° Ƴ 27'55	-1°12'27
asc. node	11647 May 29 08:29	⁰ -୭୭ 4°୭େ00'11		minimum elong	11648 Apr 01 00:38 11648 Mar 31 16:58	16° Y 57'12	
evening max el	11647 May 31 17:16	6°936'54	19°09'18	max. Earth dist.	11648 Apr 05 16:46	24° Υ 53'34	1.45198 AU
retrograde	11647 Jun 07 15:21	10°528'24	17 07 10	max. Larui dist.	11648 Apr 08 22:53	0° 8	1.75176 AU
evening set	11647 Jun 11 03:25	9° © 17'05		evening rise	11648 Apr 16 21:51	12° 8 18'12	
inferior conj	11647 Jun 16 14:22	3°529'09	3°12'45	C + C111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11648 Apr 28 14:39	0°Ⅱ	
	10 11.22		·v				

greatest brilliancy	11648 May 01 22:45	4° Ⅱ 54'09	-0.6m	asc. node	11649 May 02 02:51	8° Ⅱ 17'09	
evening max el	11648 May 13 21:37	20° Ⅲ 21'55	20°04'13	retrograde	11649 May 05 12:24	9° Ⅱ 12'14	
asc. node	11648 May 15 05:38	21° Ⅲ 38′04		evening set	11649 May 09 19:55	7° Ⅱ 28'38	
retrograde	11648 May 21 13:49	24° Ⅱ 46′01		inferior conj	11649 May 15 02:20	1° Ⅱ 15'38	3°05'54
evening set	11648 May 25 11:10	23° Ⅱ 18'30		minimum elong	11649 May 15 01:06	1° Ⅱ 19'56	3°05'07
inferior conj	11648 May 30 18:34	17° Ⅱ 17'14	3°15'10	min. Earth dist.	11649 May 15 10:36	0°Ⅱ46'53	0.68518 AU
minimum elong	11648 May 30 18:15	17° Ⅱ 18'18	3°14'26		11649 May 16 00:10	30° ₹ 8	
min. Earth dist.	11648 May 31 16:28	16° Ⅲ 03′02	0.67808 AU	morning rise	11649 May 20 06:04	24° 8 59'42	
morning rise	11648 Jun 05 01:01	10° Ⅱ 56'57		direct	11649 May 25 10:51	22° 8 43'09	
direct	11648 Jun 10 18:35	8° Ⅲ 24′21		desc. node	11649 Jun 04 15:41	28° 8 42'34	
desc. node	11648 Jun 17 18:42	11° Ⅱ 16′33		morning max el	11649 Jun 04 20:02	28° 8 53'30	23°15'17
morning max el	11648 Jun 22 09:57	15° Ⅲ 23'25	24°44'46		11649 Jun 05 21:43	Π° 0	
	11648 Jul 04 09:57	0 \circ \mathfrak{S}			11649 Jun 28 03:28	0 \circ \odot	
	11648 Jul 24 00:13	$0^{\circ}\Omega$		morning set	11649 Jul 09 13:23	18° © 13'36	
morning set	11648 Jul 28 05:52	7° Ω 18'15		max. Earth dist.	11649 Jul 13 17:15	25° © 18'28	1.39549 AU
max. Earth dist.	11648 Jul 31 19:50	13° Ω 43'47	1.37240 AU		11649 Jul 16 09:31	0 $^{\circ}\Omega$	
superior conj	11648 Aug 07 15:05	26° Ω 34'35	-0°33'45	superior conj	11649 Jul 21 09:54	9° Ω 05'05	-1°07'44
minimum elong	11648 Aug 07 17:18	26° Ω 45'26	0°33'48	minimum elong	11649 Jul 21 14:39	9° Ω 27'02	1°07'36
	11648 Aug 09 08:58	0° m)		asc. node	11649 Jul 29 02:03	23° Ω 37'36	
asc. node	11648 Aug 11 05:16	3° m 39'49		evening rise	11649 Jul 30 21:40	27° Ω 07'44	
evening rise	11648 Aug 16 01:58	13° m) 25'23			11649 Aug 01 09:33	o∘ m y	
	11648 Aug 24 20:30	0∘ 亚		evening max el	11649 Aug 15 23:33	23° m 08'59	18°37'33
evening max el	11648 Sep 01 22:53	11° ≏ 04'42	19°24'54	retrograde	11649 Aug 24 00:46	27° m 11'24	
retrograde	11648 Sep 11 10:55	15° ≏ 48'35		evening set	11649 Aug 26 00:19	26° m 57'32	
evening set	11648 Sep 13 07:14	15° ഫ 38'39		desc. node	11649 Aug 31 13:44	24° m 15'02	
desc. node	11648 Sep 13 16:21	15° ≏ 34'14		inferior conj	11649 Sep 02 22:45	22° m/31'08	-0°44'30
inferior conj	11648 Sep 21 23:32	11° ≏ 31'35	-2°34'45	minimum elong	11649 Sep 02 20:58	22° m/34'31	0°43'58
minimum elong	11648 Sep 21 16:43	11° ≏ 42'37	2°32'06	min. Earth dist.	11649 Sep 06 03:40	20° m/06'38	0.57341 AU
min. Earth dist.	11648 Sep 24 11:34	9° ≙ 54'41	0.55647 AU	morning rise	11649 Sep 10 14:12	17° m) 23'07	
morning rise	11648 Sep 29 23:49	7° ≏ 01'13		direct	11649 Sep 16 11:17	15° m) 57'17	
direct	11648 Oct 05 03:25	6° ₽ 01'20		morning max el	11649 Sep 30 18:35	23° m) 27'09	26°43'45
morning max el	11648 Oct 19 03:17	13° ഫ 03'51	25°15'27	Č	11649 Oct 06 16:24	0∘ <mark>⊽</mark>	
C	11648 Nov 01 07:29	0° M .		asc. node	11649 Oct 25 03:13	29° ≏ 42'04	
asc. node	11648 Nov 07 06:24	10°M20'14			11649 Oct 25 06:52	0°M	
morning set	11648 Nov 14 19:39	25°M34'14		morning set	11649 Oct 30 05:41	10° M ₊10'48	
S	11648 Nov 16 20:45	0° ∡ ¹		Ü			
				superior conj	11649 Nov 06 02:23	25°M15'45	1°32'55
superior conj	11648 Nov 21 14:58	10° ∡ ¹29'26	1°38'31	minimum elong	11649 Nov 06 00:56	25° ™ 07'42	1°33'23
minimum elong	11648 Nov 21 14:27	10° ∡ ¹26'36	1°39'12	max. Earth dist.	11649 Nov 06 11:57	26°M₀09'03	1.31482 AU
max. Earth dist.	11648 Nov 23 03:57	13° ∡ 52'45	1.32091 AU		11649 Nov 08 05:32	0° ∡ ¹	
evening rise	11648 Nov 28 19:12	25° ₹ '54'23		evening rise	11649 Nov 12 22:58	10° ∡ 15'56	
•	11648 Nov 30 19:29	0°⋜			11649 Nov 23 01:51	0°ರ	
desc. node	11648 Dec 10 13:56	18° る 03'43		desc. node	11649 Nov 27 11:02	7° る 24'25	
	11648 Dec 18 04:08	0° ≈		evening max el	11649 Dec 13 20:05	28° る 37'21	27°06'01
evening max el	11648 Dec 31 14:19	16° ≈ 20'24	27°31'06	-	11649 Dec 15 08:34	0° ≈	
retrograde	11649 Jan 14 10:20	23° ≈ 39'55		retrograde	11649 Dec 27 18:05	5° ≈ 49'01	
evening set	11649 Jan 21 09:46	21° ≈ 18′16		evening set	11650 Jan 03 15:06	3° ≈ 45'25	
min. Earth dist.	11649 Jan 25 03:31	18° ≈ 16′29	0.62527 AU	min. Earth dist.	11650 Jan 07 10:30	1° ≈ 03'34	0.60425 AU
inferior conj	11649 Jan 28 00:52	15° ≈ 31'08	-2°01'37		11650 Jan 08 17:21	30°Ŗ⋜	
minimum elong	11649 Jan 28 04:57	15° ≈ 21'22	1°59'25	inferior conj	11650 Jan 10 14:10	28° る 25'18	-3°19'48
asc. node	11649 Feb 03 05:29	10° ≈ 44'14		minimum elong	11650 Jan 10 21:02	28° る 10'55	3°16'41
morning rise	11649 Feb 04 02:35	10°≈23′00		morning rise	11650 Jan 18 05:44	23° る 37'05	
direct	11649 Feb 06 08:57	9° ≈ 59'28		direct	11650 Jan 20 08:26	23° る 19'30	
morning max el	11649 Feb 13 01:37	13° ≈ 24'19	17°47'09	asc. node	11650 Jan 21 02:44	23° る 21'52	
	11649 Feb 24 10:57	0°) €		morning max el	11650 Jan 27 16:16	26° る 59'07	18°00'46
morning set	11649 Mar 01 00:18	7° ¥ 58'28			11650 Jan 30 08:14	0° ≈	
desc. node	11649 Mar 08 14:32	21° ¥ 12'37		morning set	11650 Feb 12 06:35	21° ≈ 34'44	
					11650 Feb 16 20:16	0°) €	
superior conj	11649 Mar 12 16:28	28° ∺ 07'19	-0°30'50				
minimum elong	11649 Mar 12 13:25	27°) ₹54'33	0°30'15	superior conj	11650 Feb 22 08:53	9°) € 56'03	0°08'32
	11649 Mar 13 19:29	0° Y		minimum elong	11650 Feb 22 09:36	9°) 59'14	0°08'44
max. Earth dist.	11649 Mar 19 10:07	9° Y 10'18	1.43999 AU	behind sun begin	11650 Feb 22 02:55	9° ∺ 29'41	
evening rise	11649 Mar 27 10:47	21° Y 49'29		behind sun end	11650 Feb 22 16:18	10°) €28'43	
	11649 Apr 01 19:13	0° 8		desc. node	11650 Feb 23 11:13	11° ¥ 51'36	
	11649 Apr 23 03:12	$\Pi^{\circ}0$		max. Earth dist.	11650 Mar 01 23:16	22° ¥ 56'35	1.42246 AU
evening max el	11649 Apr 26 20:17	4° Ⅱ 07'46	21°12'15		11650 Mar 06 06:52	0° Y	

evening rise	11650 Mar 07 12:53	2° Y ′00'10			11651 Feb 27 02:22	0° Υ	
evening rise	11650 Mar 26 05:35	0°8			11651 Mar 21 12:33	0°8	
evening max el	11650 Apr 09 13:58	17° 8 54'28	22°29'18	evening max el	11651 Mar 23 04:28	1° 8 43'08	23°50'01
retrograde	11650 Apr 19 09:30	23° 8 42'18	22 27 10	retrograde	11651 Apr 03 03:45	8° 8 10'48	23 30 01
asc. node	11650 Apr 19 00:07	23° 8 41'35		asc. node	11651 Apr 05 21:27	7° 8 36'00	
evening set	11650 Apr 24 04:00	21° 8 43'26		evening set	11651 Apr 08 09:51	5° 8 58'22	
inferior conj	11650 Apr 29 11:36	15° 8 21'01	2°46'13	min. Earth dist.	11651 Apr 13 03:38	_	0.68546 AU
minimum elong	11650 Apr 29 09:43		2°45'20		11651 Apr 13 11:37	30°RY	
min. Earth dist.	11650 Apr 29 07:03	15° 8 36'54	0.68760 AU	inferior conj	11651 Apr 13 20:28	29° Y ′29'48	2°16'43
morning rise	11650 May 04 15:19	9° 8 10'47		minimum elong	11651 Apr 13 18:18	29° Y '37'12	2°15'49
direct	11650 May 09 06:45	7° 8 14'19		morning rise	11651 Apr 19 02:47	23° Y ′26'26	
morning max el	11650 May 18 09:16	12° 8 32'38	21°47'43	direct	11651 Apr 23 05:11	21° Y ′51′26	
desc. node	11650 May 22 12:36	17° 8 07'35		morning max el	11651 May 01 04:38	26° Y °22'56	20°29'12
	11650 Jun 01 05:55	Π°		Č	11651 May 04 11:52	0° ႘	
morning set	11650 Jun 19 19:08	27° Ⅱ 59'46		desc. node	11651 May 09 09:24	6° 8 15'25	
-	11650 Jun 21 01:09	0∘త			11651 May 25 16:05	$\Pi^{\circ}0$	
max. Earth dist.	11650 Jun 25 18:30	7°9542'41	1.41784 AU	morning set	11651 May 30 02:08	6° Ⅱ 47'09	
				max. Earth dist.	11651 Jun 08 02:06	20° Ⅱ 58'17	1.43675 AU
superior conj	11650 Jul 03 09:52	20°5643'38	-1°39'28		11651 Jun 13 15:05	0 \circ \odot	
minimum elong	11650 Jul 03 16:28	21° © 12'31	1°39'27				
	11650 Jul 08 14:55	$0^{\circ}\Omega$		superior conj	11651 Jun 14 10:56	1° 5 22'09	-2°03'35
evening rise	11650 Jul 14 05:53	10° Ω 16′56		minimum elong	11651 Jun 14 16:38	1° 5 45'50	2°04'01
asc. node	11650 Jul 15 22:54	13° Ω 25′13		evening rise	11651 Jun 26 22:01	22° 5 641'37	
	11650 Jul 25 15:49	0° m			11651 Jul 01 02:28	$0^{\circ}\Omega$	
evening max el	11650 Jul 30 08:28	5° m 50'37	18°10'56	asc. node	11651 Jul 02 19:49	2° Ω 58′03	
retrograde	11650 Aug 06 09:32	9° m 25'14		evening max el	11651 Jul 13 21:41	19° Ω 00′12	18°03'53
evening set	11650 Aug 08 16:09	9° m 03'24		retrograde	11651 Jul 20 09:34	22° Ω 21'41	
inferior conj	11650 Aug 15 19:43	4° Mp 16′26	0°47'31	evening set	11651 Jul 23 00:12	21° Ω 48′29	
minimum elong	11650 Aug 15 21:13	4° Mp 13'06	0°46'34	inferior conj	11651 Jul 29 11:34	16° Ω 42'21	1°55'01
desc. node	11650 Aug 18 11:07	1° m 56'14		minimum elong	11651 Jul 29 14:13	16° Ω 35'38	1°53'40
min. Earth dist.	11650 Aug 19 03:19	1° m)21'45	0.59486 AU	min. Earth dist.	11651 Aug 01 11:56	13° Ω 40′04	0.61768 AU
	11650 Aug 20 20:26	30° R Ω		morning rise	11651 Aug 05 01:49	10° Ω 38'24	
morning rise	11650 Aug 22 23:01	28° Ω 35'11		desc. node	11651 Aug 05 08:27	10° Ω 27'04	
direct	11650 Aug 29 08:49	26° Ω 40'33		direct	11651 Aug 11 17:57	8° Ω 18′20	
	11650 Sep 07 09:02	0° m		morning max el	11651 Aug 25 22:31	16° Ω 19'34	27°57'43
morning max el	11650 Sep 12 17:18	4° m 30'30	27°39'59		11651 Sep 06 04:45	0° ™	
	11650 Oct 01 13:17	0∘ ⊽			11651 Sep 24 05:09	0∘ ⊽	
asc. node	11650 Oct 11 23:59	19° ≏ 22'44		morning set	11651 Sep 28 13:31	8° 亞 39'30	
morning set	11650 Oct 14 12:17	24° ≏ 34'14		asc. node	11651 Sep 28 20:43	9° ≏ 16'33	
	11650 Oct 17 01:17	0° M ₊		max. Earth dist.	11651 Oct 04 03:17	20° ≏ 28'59	1.31763 AU
max. Earth dist.	11650 Oct 20 20:59	8° M 24′23	1.31367 AU			_	
				superior conj	11651 Oct 05 23:54	24° △ 33'32	1°05'01
superior conj	11650 Oct 21 13:58		1°21'41	minimum elong	11651 Oct 05 21:40	24° £ 21'10	1°04'53
minimum elong	11650 Oct 21 11:54	9°M47'22	1°21'51		11651 Oct 08 11:03	0°M	
evening rise	11650 Oct 28 07:11	24° M 47'09		evening rise	11651 Oct 12 17:56	9°M23'00	
	11650 Oct 30 18:27	0° ⊼ ¹			11651 Oct 23 04:59	0° ⊼	
desc. node	11650 Nov 14 08:13	26° ₹ '03'20		desc. node	11651 Nov 01 05:27	13° x 44'21	2.402.015.7
ovoning ma1	11650 Nov 17 02:43	0°る	26006154	evening max el	11651 Nov 07 08:08	20° 🗷 37'56	24°39'3 /
evening max el	11650 Nov 25 18:07	10°る02'14 17°る06'08	26°06'54	retrograde	11651 Nov 21 02:46	27° ₹31'46 26° ₹27'25	
retrograde	11650 Dec 09 16:13	1/°806'08 15° 8 29'16		evening set	11651 Nov 26 11:50		0.56420 AII
evening set min. Earth dist.	11650 Dec 16 01:14 11650 Dec 20 07:06		0.58307 AU	min. Earth dist.	11651 Dec 01 19:43	23° 🖈 40'23 22° 🖈 04'06	0.56430 AU
inferior conj	11650 Dec 23 09:29	12 3 33 32		inferior conj minimum elong	11651 Dec 04 08:21 11651 Dec 04 14:16	22 x · 04 00 21° x · 54'40	
minimum elong	11650 Dec 23 17:48	10 83843 10°る23'32		morning rise	11651 Dec 12 18:52	17° х 59'37	3 30 46
morning rise	11650 Dec 31 13:05	6°る12'51	4 32 10	direct	11651 Dec 15 05:13	17° x 43'26	
direct	11650 Dec 31 13.03	5° ろ 57'49		morning max el	11651 Dec 24 21:45	22° x 21'56	19°30'24
asc. node	11651 Jan 07 23:56	7° る 36'59		asc. node	11651 Dec 25 21:02	23° × 21'36	19 30 24
morning max el	11651 Jan 11 00:19		18°34'33	ubc. 11000	11651 Dec 31 01:16	23 × 2033	
morning max or	11651 Jan 24 01:21	10 ℃02 04 0°≈	10 5155	morning set	11652 Jan 11 03:40	00 20°る12'27	
morning set	11651 Jan 27 01:02	5°≈43'12		g oot	11652 Jan 16 00:25	20°≈	
	110010411 2/ 01.02	5			11002 9411 10 00.23	J . J .	
superior conj	11651 Feb 04 22:17	22° ≈ 42'51	0°41'34	superior conj	11652 Jan 19 03:53	6° ≈ 14'07	1°06'57
minimum elong	11651 Feb 05 00:54	22°≈54'58	0°41'40	minimum elong	11652 Jan 19 06:49	6°≈28'29	1°07'13
viong	11651 Feb 08 21:54	0° \	, ·v	max. Earth dist.	11652 Jan 25 13:18	18° ≈ 22'40	1.37907 AU
desc. node	11651 Feb 10 07:54	2°) 31'34		desc. node	11652 Jan 28 04:38	23°≈09'03	
max. Earth dist.	11651 Feb 12 07:24	5° H 59'53	1.40132 AU	evening rise	11652 Jan 29 06:47	25°≈04'49	
evening rise	11651 Feb 16 11:17	13° ¥ 05'05			11652 Feb 01 02:58	0° ∀	
5							

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	11652 Feb 20 17:43	0° Y		evening rise	11653 Jan 10 20:41	7° ≈ 51'41	
evening max el	11652 Mar 04 17:55	15° Y '33'59	25°07'44	desc. node	11653 Jan 14 01:26	13° ≈ 40'22	
retrograde	11652 Mar 16 17:53	22° Υ '31'50	25 07 11	desc. Hode	11653 Jan 23 20:02	0° ∀	
evening set	11652 Mar 22 11:50	20° Υ '08'26		evening max el	11653 Feb 15 07:34	29° ¥ 23'29	26°15'08
asc. node	11652 Mar 22 18:48	19° Υ ′53'18		evening man er	11653 Feb 15 22:48	0°Υ	20 10 00
min. Earth dist.	11652 Mar 26 22:09	15° Y 12'33	0.67906 AU	retrograde	11653 Feb 28 02:53	6° Υ 39'35	
inferior conj	11652 Mar 28 03:00	13° Υ 38'10	1°37'33	evening set	11653 Mar 06 08:19	4° Υ '08'50	
minimum elong	11652 Mar 28 01:01	13° Y '44'39	1°36'47	asc. node	11653 Mar 09 16:07	0° Υ 47'47	
morning rise	11652 Apr 02 14:31	7° Y ′42'59	1 30 1,	use. Houe	11653 Mar 10 08:17	30° Ŗ ₩	
direct	11652 Apr 06 04:47	6° Y ′28'41		min. Earth dist.	11653 Mar 10 12:21	29°) 47'45	0.66860 AU
morning max el	11652 Apr 13 07:36	10° Υ 24'01	19°24'15	inferior conj	11653 Mar 12 05:14	27°) 42'18	0°48'36
desc. node	11652 Apr 25 06:08	25° Y ′54'13	1, 2.10	minimum elong	11653 Mar 12 04:02	27°) 46'00	0°48'14
greatest brilliancy	11652 Apr 26 00:54	27° Y '03'22	-0.7m	morning rise	11653 Mar 18 00:32	21° ¥ 57'08	0 1011
greatest orimaney	11652 Apr 28 00:22	0°8	0.7111	direct	11653 Mar 21 03:51	21° X 01'22	
morning set	11652 May 08 02:21	15° 8 21'35		morning max el	11653 Mar 27 17:45	24°) 33'09	18°35'13
morning set	11652 May 17 12:45	0°II		morning max er	11653 Apr 01 09:11	0° Υ	10 33 13
max. Earth dist.	11652 May 20 16:01		1.45020 AU	desc. node	11653 Apr 12 02:49	15°Υ56'00	
max. Larm dist.	11032 Way 20 10.01	4 11 33 33	1.43020 AO	morning set	11653 Apr 17 18:45	24° Υ 49'06	
superior conj	11652 May 24 12:15	11° Ⅱ 00'56	2013/20	morning set	11653 Apr 21 01:55	0°8	
minimum elong	11652 May 24 12:13	11° I I00'30			11033 Apr 21 01.33	0.0	
minimum ciong	11652 Jun 05 04:46	0°95	2 1401	superior conj	11653 May 03 21:16	20° 8 02'33	2002121
		0 ع 4°909'33			11653 May 03 21.16 11653 May 03 14:06	19° 8 34'34	
evening rise	11652 Jun 07 16:56	22° © 09'33		minimum elong	,	_	1.45679 AU
asc. node	11652 Jun 18 16:48	0°Ω		max. Earth dist.	11653 May 03 10:36	0°Ⅱ	1.430/9 AU
	11652 Jun 24 06:25	0° δ ι 2° Ω 27'44	10015126		11653 May 10 05:45	0°Щ 14° Щ 37'21	
evening max el	11652 Jun 26 11:39		18°15'26	evening rise	11653 May 19 11:43		0.0
retrograde	11652 Jul 02 20:22	5° Ω 50'13		greatest brilliancy	11653 May 27 15:41	27° Ⅱ 35'02	-0.8m
evening set	11652 Jul 05 19:12	5° Ω 03'10		,	11653 May 29 04:44	0°95	
	11652 Jul 11 10:57	30°Rூ	2020141	asc. node	11653 Jun 05 13:50	10°952'26	10044145
inferior conj	11652 Jul 11 18:10	29°539'35	2°39'41	evening max el	11653 Jun 09 23:26		18°44'45
minimum elong	11652 Jul 11 20:32	29°S32'51	2°38'29	retrograde	11653 Jun 16 14:07	19° © 43'01	
min. Earth dist.	11652 Jul 14 05:45	26°951'07	0.63922 AU	evening set	11653 Jun 19 21:19	18°5540'37	200511.5
morning rise	11652 Jul 17 20:24	23°S23'05		inferior conj	11653 Jun 25 11:38	13°501'03	3°05'15
desc. node	11652 Jul 22 05:43	21°503'59		minimum elong	11653 Jun 25 13:04	12°956'36	3°04'19
direct	11652 Jul 24 12:14	20°5546'23	27220112	min. Earth dist.	11653 Jun 27 08:26	10°5642'24	0.65763 AU
morning max el	11652 Aug 07 07:43	28° © 47'52	27°38'12	morning rise	11653 Jul 01 04:04	6°939'30	
	11652 Aug 08 11:41	0° N		direct	11653 Jul 07 13:59	3°956'53	
	11652 Aug 30 01:34	0° m)		desc. node	11653 Jul 09 02:54	4°505'12	26045110
morning set	11652 Sep 11 06:57	22° m 19'43		morning max el	11653 Jul 20 18:30	11° © 45'41	26°47'19
asc. node	11652 Sep 14 17:25	29° m 18'09			11653 Aug 04 07:47	0° Q	
To all the	11652 Sep 15 01:30	0° ⊽	1 22/70 411		11653 Aug 22 15:33	0° m)	
max. Earth dist.	11652 Sep 16 03:00	2°113'17	1.32679 AU	morning set	11653 Aug 25 13:36	5° m 27'38	
	11650 0 10 0611	00 0 70100	00.4240.6	max. Earth dist.	11653 Aug 29 17:24	13° m 34'50	1.34106 AU
superior conj	11652 Sep 19 06:11	8° ₾ 53'39		asc. node	11653 Sep 01 14:07	19° m 23'34	
minimum elong	11652 Sep 19 04:19	8° ≏ 43'32	0°42'47		11652 0 02 06 22	2207 52106	0016110
evening rise	11652 Sep 26 05:16	23° ♀ 57'44		superior conj	11653 Sep 03 06:33	22° m 53'06	0°16'19
	11652 Sep 29 02:12	0° M ₊		minimum elong	11653 Sep 03 05:42	22° m/48'41	0°15'58
desc. node	11652 Oct 18 02:45	0° х 05′29		behind sun begin	11653 Sep 03 05:03	22° m 45'18	
	11652 Oct 18 00:35	0° ∡ ¹	22250112	behind sun end	11653 Sep 03 06:21	22° m/52'03	
evening max el	11652 Oct 18 18:34	0° ₹ 144'45	22°59'19		11653 Sep 06 15:37	0∘ ⊽	
retrograde	11652 Nov 01 00:06	7° × 19'31		evening rise	11653 Sep 10 15:18	8° 2 26'19	
evening set	11652 Nov 04 23:39	6° х 45'03	0.55005.444		11653 Sep 21 23:59	0°M,	21022124
min. Earth dist.	11652 Nov 12 03:38	3° ∡ 128'10	0.55097 AU	evening max el	11653 Sep 30 10:18	10°M.58'16	21°22'24
inferior conj	11652 Nov 13 12:02	2° × 741'39		desc. node	11653 Oct 05 00:06	14°M39'26	
minimum elong	11652 Nov 13 10:28	2° √ 43'54	5°48'56	retrograde	11653 Oct 12 12:11	16°M58'25	
	11652 Nov 18 15:02	30°RM₁		evening set	11653 Oct 15 03:57	16°M42'09	
morning rise	11652 Nov 21 22:51	28°M52'09		inferior conj	11653 Oct 24 04:31	12°M47'06	
direct	11652 Nov 24 23:59	28°M30'22		minimum elong	11653 Oct 23 19:39		5°07'30
	11652 Nov 30 23:05	0° ⊀ ⁷	20040112	min. Earth dist.	11653 Oct 24 10:15	12°M39'04	0.54575 AU
morning max el	11652 Dec 06 05:29	3° × 750'03	20°49'12	morning rise	11653 Nov 01 12:09	8°M57'31	
asc. node	11652 Dec 11 18:04	10° ∡ 16'46		direct	11653 Nov 05 08:26	8°M25'40	22025115
	11652 Dec 23 02:00	0°る		morning max el	11653 Nov 18 00:04	14°M28'22	22°27'47
morning set	11652 Dec 25 11:34	4° る 54'16		asc. node	11653 Nov 28 15:01	28°M09'25	
	11/70 7	2007:	100 446	•	11653 Nov 29 17:46	0° ⊼ ¹	
superior conj	11653 Jan 01 21:21	20°る17'44	1°24'40	morning set	11653 Dec 09 22:23	19° ∡ ′41′16	
minimum elong	11653 Jan 01 23:40	20° පි 29'40	1°25'10		11653 Dec 14 18:06	0°₹	
pp. 18 19	11653 Jan 06 17:36	0° ≈	1.05005 / **		11662 5 16 22 5	40-74	1025110
max. Earth dist.	11653 Jan 06 22:00	0° ≈ 21′28	1.35807 AU	superior conj	11653 Dec 16 23:05	4° る 43'03	1~35'10

minimum elong	11653 Dec 17 00:22	4° ⋜ 49'51	1°35'53	asc. node	11654 Nov 15 11:55	16° M .45′06	
max. Earth dist.	11653 Dec 20 13:23	12°る14'48	1.34019 AU	use. noue	11654 Nov 22 07:23	0° ∡ 7	
evening rise	11653 Dec 25 01:16	21° ප 15'19		morning set	11654 Nov 24 10:15	4° ∡ °28′18	
	11653 Dec 29 16:39	0° ≈					
desc. node	11653 Dec 31 22:18	4° ≈ 00'19		superior conj	11654 Dec 01 06:23	19° ∡ °22'14	1°39'05
	11654 Jan 17 16:47	0°) €		minimum elong	11654 Dec 01 06:30	19° ∡ ²22'54	1°39'49
evening max el	11654 Jan 28 21:07	13° 米 01′56	27°04'55	max. Earth dist.	11654 Dec 03 12:33	24° ∡ 15'47	1.32658 AU
retrograde	11654 Feb 11 05:57	20°) 25′42			11654 Dec 06 05:25	0° ろ	
evening set	11654 Feb 17 21:17	17° ¥ 52'36		evening rise	11654 Dec 08 17:09	5° る 07'33	
min. Earth dist.	11654 Feb 21 20:00	14° ₩ 05'11	0.65433 AU	desc. node	11654 Dec 18 19:17	24° る 03'28	
inferior conj	11654 Feb 24 00:50	11° ∺ 36′00			11654 Dec 22 08:32	0° ≈	27020102
minimum elong	11654 Feb 24 01:08	11°) 35'12		evening max el	11655 Jan 11 09:17	26°≈18'05	27°30'02
transit middle	11654 Feb 24 01:08 11654 Feb 23 22:46	11°\(\dagger)35'12 11°\(\dagger)41'54	0°09'51		11655 Jan 15 18:22 11655 Jan 25 02:29	0°) 3°) {41′26	
transit begin transit end	11654 Feb 24 03:29	11 X 41 34 11° X 28'31		retrograde evening set	11655 Feb 01 00:28	1° € 12'53	
asc. node	11654 Feb 24 13:26	11° X 2831		evening set	11655 Feb 02 13:39	30°R≈	
morning rise	11654 Mar 02 06:25	6° ₩ 03'14		min. Earth dist.	11655 Feb 04 19:11	27°≈56'09	0.63668 AU
direct	11654 Mar 05 00:09	5° ¥ 22'54		inferior conj	11655 Feb 07 11:13	25°≈12'57	
morning max el	11654 Mar 11 09:02	8°) (43'25	18°02'55	minimum elong	11655 Feb 07 13:44	25°≈06'30	
<i>y</i>	11654 Mar 26 03:54	0°Υ		asc. node	11655 Feb 11 10:43	21° ≈ 32'22	
morning set	11654 Mar 29 15:20	5° Ƴ 40'42		morning rise	11655 Feb 14 05:11	19° ≈ 55'13	
desc. node	11654 Mar 29 23:28	6° Ƴ 13'54		direct	11655 Feb 16 15:01	19° ≈ 26'43	
				morning max el	11655 Feb 23 02:40	22° ≈ 47'04	17°47'48
superior conj	11654 Apr 13 06:27	29° Ƴ 11′23			11655 Feb 28 19:38	0° ∀	
minimum elong	11654 Apr 12 21:11	28° Ƴ 34'50	1°33'56	morning set	11655 Mar 11 15:07	17° ¥ 50′54	
	11654 Apr 13 18:47	0° 8		desc. node	11655 Mar 16 20:07	26°) 43′05	
max. Earth dist.	11654 Apr 16 06:51	3° 8 55'57	1.45588 AU		11655 Mar 18 18:58	0° Υ	
evening rise	11654 Apr 29 09:09	24° 8 16'25			1165534 24 00 26	000011151	0054155
4 41 711	11654 May 03 02:20	0°II	0.7	superior conj	11655 Mar 24 08:36	9° Ƴ 11'51 8° Ƴ 48'18	-0°54'55 0°54'09
greatest brilliancy asc. node	11654 May 12 12:34	14° Ⅱ 19'11 28° Ⅱ 57'00	-0.7m	minimum elong max. Earth dist.	11655 Mar 24 02:50 11655 Mar 30 01:35	18° Υ 22'31	0°54′09 1.44766 AU
asc. node	11654 May 23 10:56 11654 May 24 11:20	28 п 3700		max. Earm dist.	11655 Apr 06 11:49	0° 8	1.44/00 AU
evening max el	11654 May 24 06:49	29° Ⅱ 48'45	19°30'50	evening rise	11655 Apr 08 20:36	3° 8 38'31	
retrograde	11654 May 31 11:40	3°952'51	1, 3030	evening rise	11655 Apr 26 14:22	0°Ⅱ	
evening set	11654 Jun 04 03:40	2° © 34'27		evening max el	11655 May 07 08:35	13° I I33'10	20°31'45
Č	11654 Jun 06 21:12	30°R Ⅱ		asc. node	11655 May 10 08:06	16° Ⅱ 11'15	
inferior conj	11654 Jun 09 12:43	26° Ⅱ 40′27	3°15'19	retrograde	11655 May 15 10:32	18° Ⅱ 14'16	
minimum elong	11654 Jun 09 13:02	26° Ⅲ 39′26	3°14'33	evening set	11655 May 19 12:03	16° Ⅲ 39'50	
min. Earth dist.	11654 Jun 10 18:42	25° I I01'23	0.67188 AU	inferior conj	11655 May 24 18:43	10° Ⅲ 33′04	3°12'34
morning rise	11654 Jun 14 22:00	20° Ⅱ 18'41		minimum elong	11655 May 24 17:59	10° Ⅱ 35'36	
direct	11654 Jun 20 22:08	17° Ⅱ 40'14		min. Earth dist.	11655 May 25 10:41	9° Ⅱ 38'12	0.68162 AU
desc. node	11654 Jun 26 00:01	19° Ⅱ 11'07		morning rise	11655 May 29 23:39	4° Ⅱ 14'14	
morning max el	11654 Jul 03 05:06	25° Ⅱ 01'59	25°33'41	direct	11655 Jun 04 11:47	1° Ⅱ 47'55	
	11654 Jul 07 17:05	0° ಲ		desc. node	11655 Jun 12 21:04	5° Ⅱ 53'19	24007100
	11654 Jul 28 19:11	0° Ω		morning max el	11655 Jun 15 14:57	8° Ⅱ 27'58	24°07'00
morning set max. Earth dist.	11654 Aug 08 05:44 11654 Aug 11 21:51	17° Ω 53'45 24° Ω 41'41	1.35990 AU	morning set	11655 Jul 02 12:33 11655 Jul 21 02:35	0° © 29° © 25'42	
max. Earth dist.	11654 Aug 14 16:17	0°M)	1.33990 AU	morning set	11655 Jul 21 10:32	29 3 23 42	
	1105471ug 14 10.17	V IIIV		max. Earth dist.	11655 Jul 24 19:32	5° Ω 55'29	1.38205 AU
superior conj	11654 Aug 17 22:15	6° Mp 24'49	-0°14'37	man. Bartir digt.	11000 041 2. 15.52	0 0000 25	1.50200110
minimum elong	11654 Aug 17 23:09	6° m 29'23		superior conj	11655 Aug 01 01:49	19° Ω 19'48	-0°48'11
behind sun begin	11654 Aug 17 20:39	6° Mp 16′50		minimum elong	11655 Aug 01 05:06	19° Ω 35′29	0°48'09
behind sun end	11654 Aug 18 01:40	6°Mp41'57		asc. node	11655 Aug 06 07:36	29° Ω 30′25	
asc. node	11654 Aug 19 10:50	9° m 29'06			11655 Aug 06 13:36	0° m	
evening rise	11654 Aug 25 21:54	22° Mp 42° 46		evening rise	11655 Aug 09 22:28	6° Mg 39′23	
	11654 Aug 29 12:52	0∘ ⊽			11655 Aug 23 08:30	0∘ ⊽	
evening max el	11654 Sep 12 14:42	21° ≏ 49'37	20°01'49	evening max el	11655 Aug 26 08:48	3° ≏ 28'03	19°02'13
desc. node	11654 Sep 21 21:28	26° ♀ 58'28		retrograde	11655 Sep 04 05:12	7° Ω 53'09	
retrograde	11654 Sep 23 02:11	27° ♀ 02'23		evening set	11655 Sep 06 01:51	7° Ω 42'13	
evening set	11654 Sep 25 00:45	26° £ 52′27	2020157	desc. node	11655 Sep 08 18:53	6° £ 50′27	1016115
inferior conj	11654 Oct 03 23:59	22° £ 52'51		inferior conj	11655 Sep. 14 11:06	3° Ω 27'40	
minimum elong min. Earth dist.	11654 Oct 03 14:45 11654 Oct 05 19:03	23° Ω 06'46 21° Ω 48'00	3°35'40 0.54990 AU	minimum elong min. Earth dist.	11655 Sep 14 06:29 11655 Sep 17 08:16	3° £ 35'37 1° £ 28'41	0.56283 AU
morning rise	11654 Oct 12 03:34	18° £ 41'48	5.57770 AU	mm. Darm dist.	11655 Sep 19 16:56	30°RM)	0.50205 AU
direct	11654 Oct 16 19:32	17° £ 54'28		morning rise	11655 Sep 22 08:02	28° Mp 40'58	
morning max el	11654 Oct 30 11:32	24° £ 37'25	24°15'41	direct	11655 Sep 27 19:20	27° m/30'39	
	11654 Nov 04 10:24	0° M .			11655 Oct 05 21:13	0ം ರ	

morning max el	11655 Oct 11 23:43	4° ≏ 46'42	25°56'10	desc. node	11656 Aug 25 16:15	14° m 53'13	
	11655 Oct 30 04:38	0° M ₊		min. Earth dist.	11656 Aug 29 03:29	12° Mp 06'09	0.58220 AU
asc. node	11655 Nov 02 08:46	5° M 52′10		morning rise	11656 Sep 02 06:13	9° m 23'12	
morning set	11655 Nov 08 21:25	19° ™ 09'33		direct	11656 Sep 08 09:43	7° ™ 44'42	
	11655 Nov 13 20:16	0° ∡ ¹		morning max el	11656 Sep 22 17:52	15° m) 24'18	27°12'03
					11656 Oct 04 14:07	0∘ 亚	
superior conj	11655 Nov 15 16:52	4° ∡ °07′29	1°36'51	asc. node	11656 Oct 19 05:35	25° ≏ 22'18	
minimum elong	11655 Nov 15 15:56	4° ∡ °02′17	1°37'27		11656 Oct 21 12:10	0° M .	
max. Earth dist.	11655 Nov 16 17:56	6° ∡ ¹26'16	1.31768 AU	morning set	11656 Oct 23 06:11	3°M40'24	
evening rise	11655 Nov 22 17:17	19° √ 19'58		Č			
0.108	11655 Nov 28 00:50	0°ਰ		superior conj	11656 Oct 30 04:35	18°M52'43	1°28'50
desc. node	11655 Dec 05 16:20	13° る 41'57		minimum elong	11656 Oct 30 02:50	18°M42'57	1°29'11
desc. node	11655 Dec 16 17:36	0°≈		max. Earth dist.	11656 Oct 30 02:39	18°M41'58	1.31371 AU
			27024124	max. Lartii uist.			1.313/1 AU
evening max el	11655 Dec 24 18:05	8°≈59'39	27°24'34		11656 Nov 04 05:14	0° ⊼ ¹	
retrograde	11656 Jan 07 15:35	16°≈16'53		evening rise	11656 Nov 05 23:12	3° ∡ ¹45'57	
evening set	11656 Jan 14 14:50	14°≈01'40			11656 Nov 19 19:53	0°る	
min. Earth dist.	11656 Jan 18 08:27	11° ≈ 09'35	0.61646 AU	desc. node	11656 Nov 21 13:28	2° る 45'59	
inferior conj	11656 Jan 21 09:13	8° ≈ 25'04	-2°34'32	evening max el	11656 Dec 05 20:58	20° る 55'25	26°44'56
minimum elong	11656 Jan 21 14:30	8° ≈ 13′03	2°31'51	retrograde	11656 Dec 19 19:36	28° る 03'39	
morning rise	11656 Jan 28 16:55	3° ≈ 25'15		evening set	11656 Dec 26 12:33	26° る 10'50	
asc. node	11656 Jan 29 07:59	3° ≈ 15'14		min. Earth dist.	11656 Dec 30 11:09	23° る 33'19	0.59509 AU
direct	11656 Jan 30 21:09	3° ≈ 04'48		inferior conj	11657 Jan 02 15:17	21° る 03'02	-3°52'52
morning max el	11656 Feb 06 19:26	6° ≈ 34'59	17°50'34	minimum elong	11657 Jan 02 23:03	20°る47'39	3°49'38
•	11656 Feb 21 22:31	0° \		morning rise	11657 Jan 10 12:21	16° る 23'50	
morning set	11656 Feb 22 12:05	1° ¥ 00'58		direct	11657 Jan 12 14:33	16° る 07'48	
desc. node	11656 Mar 02 16:48	17° ¥ 19'23		asc. node	11657 Jan 15 05:14	16° る 33'59	
dese. node	11000 11111 02 10.10	1, 7(1) 23		morning max el	11657 Jan 20 07:42	19° る 57'08	18°12'30
superior conj	11656 Mar 04 11:08	20° ¥ 21'26	0013133	morning max er	11657 Jan 27 18:24	0°≈	10 12 30
minimum elong	11656 Mar 04 09:53	20° X 16'09		morning set	11657 Feb 05 00:08	0 ~ 14° ≈ 52'30	
•			0 13 10	morning set			
behind sun begin	11656 Mar 04 04:59	19°) ₹55'09			11657 Feb 13 02:38	0° ℋ	
behind sun end	11656 Mar 04 14:48	20°) € 37'07					
	11656 Mar 10 05:08	0° Υ		superior conj	11657 Feb 14 13:00	2° ₩ 35'56	0°23'26
max. Earth dist.	11656 Mar 11 16:43	2° Y 25'35	1.43307 AU	minimum elong	11657 Feb 14 14:45	2°) 43'49	0°23'34
evening rise	11656 Mar 18 13:43	13° Y ′23′12		desc. node	11657 Feb 17 13:27	7° ¥ 58'51	
	11656 Mar 29 12:25	$_{0\circ}$ 8		max. Earth dist.	11657 Feb 22 03:36	15° ¥ 53'56	1.41379 AU
evening max el	11656 Apr 19 04:57	27° 8 19'15	21°44'17	evening rise	11657 Feb 27 00:03	23° ¥ 56′21	
	11656 Apr 22 03:58	Π \circ 0			11657 Mar 02 18:59	0 ° Υ	
asc. node	11656 Apr 26 05:21	2° Ⅲ 20'41			11657 Mar 23 10:44	$_{0\circ}$ 8	
retrograde	11656 Apr 28 08:44	2° Ⅱ 42'36		evening max el	11657 Apr 01 21:10	11° 8 07'05	23°03'41
evening set	11656 May 02 20:43	0° Ⅱ 52'36		retrograde	11657 Apr 12 04:39	17° 8 12'14	
•	11656 May 03 19:49	30° ₹ 8		asc. node	11657 Apr 13 02:39	17° 8 08'16	
inferior conj	11656 May 08 03:24	24° 8 35'14	2°58'46	evening set	11657 Apr 17 04:00	15° 8 07'33	
minimum elong	11656 May 08 01:50	24° 8 40'39	2°57'58	min. Earth dist.	11657 Apr 22 02:57	9° 8 16'03	0.68725 AU
min. Earth dist.	11656 May 08 06:11	24° 8 25'28	0.68672 AU	inferior conj	11657 Apr 22 12:42	8° 8 42'18	2°34'52
morning rise	11656 May 13 06:46	18° 8 21'19	0.00072710	minimum elong	11657 Apr 22 10:39	8° 8 49'25	2°33'59
direct	•	16° 8 12'49		morning rise		2° 8 34'48	2 33 37
	11656 May 18 05:52		22227115	•	11657 Apr 27 17:12	0° 8 47'10	
morning max el	11656 May 28 01:54	22° 8 01'26	22°37'15	direct	11657 May 02 03:07		21012140
desc. node	11656 May 29 18:02	23° 8 46'43		morning max el	11657 May 10 17:15	5° 8 44'13	21°12'49
	11656 Jun 03 23:36	0°П		desc. node	11657 May 16 14:53	12° 8 31'15	
	11656 Jun 24 19:27	0° ©			11657 May 29 04:21	0°II	
morning set	11656 Jun 30 23:23	9° 9 52'11		morning set	11657 Jun 10 18:19	19° Ⅱ 09'18	
max. Earth dist.	11656 Jul 05 17:28	17° 5 47'34	1.40522 AU		11657 Jun 17 12:57	0 \circ \odot	
	11656 Jul 12 17:19	0 ° Ω		max. Earth dist.	11657 Jun 17 21:21	0° © 34'19	1.42651 AU
superior conj	11656 Jul 13 13:13	1° Ω 29'32	-1°21'44	superior conj	11657 Jun 25 03:49	12°5643'10	-1°51'01
minimum elong	11656 Jul 13 18:55	1° Ω 55'19	1-21-38	minimum elong	11657 Jun 25 10:31	13° © 11'50	1-31-10
asc. node	11656 Jul 23 04:25	19° Ω 24'14			11657 Jul 04 23:46	0° Ω	
evening rise	11656 Jul 23 13:48	20° Ω 08'37		evening rise	11657 Jul 06 15:43	2° Ω 59'42	
	11656 Jul 28 20:53	0° m)		asc. node	11657 Jul 10 01:16	9° Ω 05'48	
evening max el	11656 Aug 08 13:34	15° m 49'35	18°23'49	evening max el	11657 Jul 23 00:47	28° Ω 44'03	18°05'36
retrograde	11656 Aug 16 03:01	19° m 37'59			11657 Jul 24 10:41	0° ™	
evening set	11656 Aug 18 05:24	19° m 21'10		retrograde	11657 Jul 29 18:43	2°Mp10'57	
inferior conj	11656 Aug 25 19:41	14° M) 46'18	-0°02'38	evening set	11657 Aug 01 04:52	1° M 44'29	
minimum elong	11656 Aug 25 19:34	14° m) 46'31	0°02'52		11657 Aug 04 08:05	30°R Ω	
transit middle	11656 Aug 25 19:34	14° m) 46'31	0°02'52	inferior conj	11657 Aug 08 01:05	26° Ω 48'59	1°19'09
transit begin	11656 Aug 25 16:05	14° m) 53'33		minimum elong	11657 Aug 08 03:18	26° Ω 43'47	1°17'56
transit end	11656 Aug 25 23:03	14° mp 39'29		min. Earth dist.	11657 Aug 11 06:30	23° Ω 48'32	0.60465 AU
:= ====		·4 - / = /					

desc. node	11657 Aug 12 13:36	22° Ω 41'52		minimum elong	11658 Jul 22 02:21	9° Ω 21'49	2°15'15
morning rise	11657 Aug 14 22:51	20°Ω57'05		min. Earth dist.	11658 Jul 24 18:54	6°Ω30'26	0.62714 AU
direct	11657 Aug 21 12:20	18°Ω50'56		morning rise	11658 Jul 28 08:36	3° Ω 18'27	
morning max el	11657 Sep 04 19:22	26° Ω 45'53	27°52'20	desc. node	11658 Jul 30 10:54	1° Ω 59'45	
C	11657 Sep 07 20:47	0° m)		direct	11658 Aug 04 01:13	0° Ω 50'25	
	11657 Sep 28 05:15	0∘ <u>⊽</u>		morning max el	11658 Aug 18 02:42	8° Ω 52'45	27°53'49
asc. node	11657 Oct 06 02:20	15° ഫ 08'53			11658 Sep 03 11:01	0° m)	
morning set	11657 Oct 07 10:45	17° ≏ 56'16			11658 Sep 20 10:51	0∘ 亚	
	11657 Oct 13 01:17	0° M.		morning set	11658 Sep 21 08:57	1° ≙ 51'17	
max. Earth dist.	11657 Oct 13 11:04	0°M54'01	1.31474 AU	asc. node	11658 Sep 22 23:01	5° ≙ 06'11	
				max. Earth dist.	11658 Sep 26 15:13	12° ≏ 51'42	1.32090 AU
superior conj	11657 Oct 14 15:42	3°M32'34	1°15'16				
minimum elong	11657 Oct 14 13:30	3°M20'22	1°15'19	superior conj	11658 Sep 29 00:17	18° ഫ 01'08	0°56'20
evening rise	11657 Oct 21 08:44	18° M ₊19'47		minimum elong	11658 Sep 28 22:07	17° ≏ 49'19	0°56'07
	11657 Oct 27 00:25	0° ∡ ⊓			11658 Oct 04 11:29	0° M ₊	
desc. node	11657 Nov 08 10:39	21° ∡ °02'21		evening rise	11658 Oct 05 19:57	2°M55'29	
	11657 Nov 15 16:16	0°ಕ			11658 Oct 20 06:55	0° ∡ ¹	
evening max el	11657 Nov 17 15:41	1° る 58'59	25°32'45	desc. node	11658 Oct 26 07:54	8° ∡ 12'09	
retrograde	11657 Dec 01 12:38	8°る58'13		evening max el	11658 Oct 30 03:05	12° ∡ 17'35	23°57'43
evening set	11657 Dec 07 13:06	7°る34'59		retrograde	11658 Nov 12 17:24	19° ∡ 05′11	
min. Earth dist.	11657 Dec 12 03:57	4°る57'06	0.57461 AU	evening set	11658 Nov 17 13:17	18° ∡ 14'10	0.55556.433
inferior conj	11657 Dec 15 02:08	2°る57'05		min. Earth dist.	11658 Nov 23 13:43	15° ₹ 16'48	0.55776 AU
minimum elong	11657 Dec 15 10:04	2°る43'28	5°00'20	inferior conj	11658 Nov 25 16:16	14° ∡ 700′31	
	11657 Dec 19 20:17	30°₹ ₰ 28° ₰ 40'25		minimum elong	11658 Nov 25 19:30 11658 Dec 04 03:42	13° 🗷 55'36	5*44*58
morning rise	11657 Dec 23 09:26	28° x '40'25 28° x '25'16		morning rise		10°× 7 04'09	
direct	11657 Dec 25 14:59 11657 Dec 31 00:19	0° る		direct morning max el	11658 Dec 06 19:36 11658 Dec 17 03:28	9° х ¹46'08 14° х ¹40'58	20°01'18
asc. node	11658 Jan 02 02:24	0 る 1° る 28'31		asc. node	11658 Dec 17 03.28 11658 Dec 19 23:29	14 x 40 38	20 01 18
morning max el	11658 Jan 03 11:38	2°る42'53	18°55'31	asc. Houe	11658 Dec 28 01:13	1/ メ·44 3/	
morning set	11658 Jan 19 22:33	2 04233 29° る 11'43	16 33 31	morning set	11659 Jan 04 03:44	13°る47'02	
morning set	11658 Jan 20 08:22	0°≈		morning set	11039 Jan 04 03.44	13 04/02	
	11030 3411 20 00.22	0 /01		superior conj	11659 Jan 11 21:03	29° る 29'59	1°15'22
superior conj	11658 Jan 28 09:55	15° ≈ 43'38	0°53'17	minimum elong	11659 Jan 11 23:49	29° ප් 43'46	1°15'44
minimum elong	11658 Jan 28 12:49	15° ≈ 57'25	0°53'26		11659 Jan 12 03:04	0°≈	
desc. node	11658 Feb 04 10:09	28° ≈ 38'18		max. Earth dist.	11659 Jan 17 17:29	10°≈52'01	1.36982 AU
max. Earth dist.	11658 Feb 04 10:55	28° ≈ 41'41	1.39190 AU	evening rise	11659 Jan 21 11:24	17° ≈ 45'57	
	11658 Feb 05 04:37	0° ∀		desc. node	11659 Jan 22 06:55	19° ≈ 13′20	
evening rise	11658 Feb 08 07:42	5° ¥ 25'42			11659 Jan 28 13:33	0° ∀	
-	11658 Feb 23 20:44	0° Y			11659 Feb 18 04:19	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	11658 Mar 15 11:07	24° Y 57'21	24°23'47	evening max el	11659 Feb 26 00:24	8° Ƴ 47'34	25°37'57
	11658 Mar 21 16:34	0° 8		retrograde	11659 Mar 10 09:12	15° Y 54'50	
retrograde	11658 Mar 26 21:07	1° 8 38'26		evening set	11659 Mar 16 08:15	13° Y 27′27	
asc. node	11658 Mar 30 23:58	0° 8 21'30		asc. node	11659 Mar 17 21:18	12° Y 00′17	
	11658 Mar 31 12:35	30° ŖƳ		min. Earth dist.	11659 Mar 20 15:39	8° Ƴ 46'44	0.67515 AU
evening set	11658 Apr 01 08:23	29° Y 20′53		inferior conj	11659 Mar 22 01:44	6° Ƴ 58'01	1°18'01
min. Earth dist.	11658 Apr 05 22:49	24° Y ′05′01	0.68337 AU	minimum elong	11659 Mar 22 00:00	7° Y 03'32	1°17'22
inferior conj	11658 Apr 06 20:48	22° Y 51'14	2°01'18	morning rise	11659 Mar 27 16:18	1° Y 07'08	
minimum elong	11658 Apr 06 18:39	22°\(\gamma 58'28	2°00'25	direct	11659 Mar 31 01:42	0° Υ 01'12	10001100
morning rise	11658 Apr 12 05:02	16° Y 51′21		morning max el	11659 Apr 06 22:07	3° Y 44'53	19°01'23
direct	11658 Apr 16 02:14	15° Y 25'17	10050143	greatest brilliancy	11659 Apr 20 05:36	21° Υ 31'59	-0.7m
morning max el	11658 Apr 23 15:48	19° Ƴ 39'18	19°59'42	desc. node	11659 Apr 20 08:24	21° Y 42'34	
dasa mada	11658 May 02 03:07	0° 8 1° 8 53'14		marning sat	11659 Apr 25 18:30	0° と 6° と 33'38	
desc. node morning set	11658 May 03 11:40 11658 May 20 19:41	27° 8 43'11		morning set max. Earth dist.	11659 Apr 30 00:21 11659 May 14 00:36	28° 8 22'29	1.45389 AU
morning set	11658 May 22 07:10	27 ℃ 43 11		max. Earm dist.	11659 May 15 01:27	0°Ⅱ	1.43369 AU
max. Earth dist.	11658 May 31 08:20		1.44333 AU		11039 Way 13 01.27	υш	
max. Lattii dist.	11030 May 31 00.20	14 111 02	1.44555 710	superior conj	11659 May 16 11:16	2° Ⅱ 13'04	-2°11'37
superior conj	11658 Jun 05 18:25	22° Ⅱ 54'33	-2°09'53	minimum elong	11659 May 16 08:06	2° I 100'35	
minimum elong	11658 Jun 05 22:20	23° I I10'29		evening rise	11659 May 31 08:11	26° I 03'43	
	11658 Jun 10 01:56	0°95			11659 Jun 02 18:08	0°9	
evening rise	11658 Jun 18 23:21	15° 5 01'09		asc. node	11659 Jun 13 19:10	17°930'21	
asc. node	11658 Jun 26 22:11	28°929'57		evening max el	11659 Jun 20 03:56	25°534'15	18°25'45
	11658 Jun 27 20:15	0°N		retrograde	11659 Jun 26 14:18	29° © 01'46	
evening max el	11658 Jul 06 14:38	12° Ω 01'37	18°06'31	evening set	11659 Jun 29 16:33	28°908'27	
retrograde	11658 Jul 12 23:59	15° Ω 21'58		inferior conj	11659 Jul 05 11:24	22°537'46	2°52'38
evening set	11658 Jul 15 18:07	14° Ω 43'02		minimum elong	11659 Jul 05 13:25	22°531'48	2°51'33
inferior conj	11658 Jul 21 23:42	9° Ω 28'55	2°16'35	min. Earth dist.	11659 Jul 07 16:47	20°500'16	0.64745 AU
micror conj							

morning rise	11659 Jul 11 09:07	16°518'03			11660 Jun 23 14:58	30°R Ⅱ	
•				direct		30 KII 27°II03'04	
desc. node	11659 Jul 17 08:09	13°938'51			11660 Jun 30 03:43		
direct	11659 Jul 17 22:52	13°937'32	25010155	desc. node	11660 Jul 03 05:20	27° Ⅱ 36'19	
morning max el	11659 Jul 31 13:08		27°19'57		11660 Jul 07 14:55	0° ©	
	11659 Aug 07 20:41	0 \circ Ω		morning max el	11660 Jul 12 23:56	4°9642'53	26°18'06
	11659 Aug 27 15:25	0° m)			11660 Aug 01 07:57	$0^{\circ}\Omega$	
morning set	11659 Sep 04 22:13	15° m) 19'11		morning set	11660 Aug 17 23:13	28° Ω 10′33	
max. Earth dist.	11659 Sep 09 11:19	24° Mp 26'42	1.33221 AU		11660 Aug 18 22:32	0° m)	
asc. node	11659 Sep 09 19:42	25° ™ 09'58		max. Earth dist.	11660 Aug 21 20:57	5° m 38'05	1.34855 AU
	11659 Sep 12 03:12	0∘ ত		asc. node	11660 Aug 26 16:23	15° m 15'39	
superior conj	11659 Sep 13 04:20	2° ₽ 13'14	0°32'17	superior conj	11660 Aug 27 01:22	16° Mp 01'41	0°03'38
minimum elong	11659 Sep 13 02:48	2° ₽ 05'06	0°31'57	minimum elong	11660 Aug 27 01:10	16° Mp 00'41	0°03'21
evening rise	11659 Sep 20 06:58	17° ≏ 28'12		behind sun begin	11660 Aug 26 19:20	15° mp 30'45	
S	11659 Sep 26 10:38	0° M .		behind sun end	11660 Aug 27 07:01	16° m) 30'41	
evening max el	11659 Oct 11 14:26	22°M222'03	22°16'42		11660 Sep 02 18:18	0∘ <u>⊽</u>	
desc. node	11659 Oct 13 05:13	23°ML51'19		evening rise	11660 Sep 03 15:47	1° £ 51'52	
retrograde	11659 Oct 24 10:28	28°M44'54		evening rise	11660 Sep 19 21:27	0°M	
evening set	11659 Oct 27 19:06	28°M19'55		evening max el	11660 Sep 22 11:07	2°M49'13	20°45'44
min. Earth dist.	11659 Nov 04 20:47	24°M45'00	0.54760 AU	desc. node	11660 Sep 29 02:35	7°M30'40	20 43 44
		24°M21'08		retrograde	=	8°M29'42	
inferior conj	11659 Nov 05 13:44			Č	11660 Oct 03 21:33		
minimum elong	11659 Nov 05 08:31	24°M28'30	5°38'56	evening set	11660 Oct 06 03:40	8°M17'25	402 (10.1
morning rise	11659 Nov 13 23:22	20°M33'57		inferior conj	11660 Oct 15 05:39	4°M22'26	
direct	11659 Nov 17 08:03	20°M08'38		minimum elong	11660 Oct 14 19:41	4° M ₊36'41	4°33'00
morning max el	11659 Nov 29 05:22	25°M46'58	21°29'12	min. Earth dist.	11660 Oct 16 04:21	3° M 49′57	0.54636 AU
	11659 Dec 03 02:30	0° ∡ ¹		morning rise	11660 Oct 23 11:37	0° M 25′46	
asc. node	11659 Dec 06 20:29	5° ≯ 06′21			11660 Oct 25 08:01	30° ₹ Ω	
morning set	11659 Dec 19 13:05	28° ₰ 31'06		direct	11660 Oct 27 16:21	29° ≙ 47'55	
	11659 Dec 20 06:03	0°ප			11660 Oct 29 23:59	0° M	
				morning max el	11660 Nov 09 19:54	6° ™ 09'07	23°13'24
superior conj	11659 Dec 26 18:25	13° る 43'39	1°29'57	asc. node	11660 Nov 22 17:25	23°M18'36	
minimum elong	11659 Dec 26 20:20	13° る 53'37	1°30'34		11660 Nov 26 10:43	0° ∡ ¹	
max. Earth dist.	11659 Dec 31 04:13	22° る 43'52	1.34995 AU	morning set	11660 Dec 03 00:33	13° ∡ 18'18	
	11660 Jan 03 21:38	0° ≈					
evening rise	11660 Jan 04 07:58	0° ≈ 49'05		superior conj	11660 Dec 09 22:49	28° ҂ 15'33	1°37'36
evening rise desc. node	11660 Jan 04 07:58 11660 Jan 09 03:44	0°≈49'05 9°≈39'56		superior conj minimum elong		28° ҂ 15'33 28° ҂ 19'48	1°37'36 1°38'20
•	11660 Jan 09 03:44	9° ≈ 39'56		superior conj minimum elong	11660 Dec 09 23:37	28° ∡ 19'48	
desc. node	11660 Jan 09 03:44 11660 Jan 21 15:27	9° ≈ 39'56 0° 米	26°38'53	minimum elong	11660 Dec 09 23:37 11660 Dec 10 18:17	28°♂19'48 0°る	1°38'20
desc. node	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54	9°≈39'56 0°¥ 22°¥32'32	26°38'53	minimum elong max. Earth dist.	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47	28° ₹19'48 0° ₹ 4° ₹38'29	
desc. node evening max el retrograde	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58	9°≈39'56 0° X 22° X 32'32 29° X 54'02	26°38'53	minimum elong max. Earth dist. evening rise	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46	28°メ19'48 0°る 4°る38'29 14°る26'00	1°38'20
desc. node evening max el retrograde evening set	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25		minimum elong max. Earth dist.	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38	28° 🖈 19'48 0° ರ 4° ರ 38'29 14° ರ 26'00 29° ರ 53'25	1°38'20
desc. node evening max el retrograde evening set min. Earth dist.	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23	9°≈39'56 0° ℋ 22° ℋ32'32 29° ℋ54'02 27° ℋ21'25 23° ℋ14'50	26°38'53 0.66292 AU	minimum elong max. Earth dist. evening rise	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ≈	1°38'20
desc. node evening max el retrograde evening set min. Earth dist. asc. node	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55	0.66292 AU	minimum elong max. Earth dist. evening rise desc. node	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ≈ 0° ¥	1°38'20 1.33382 AU
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩58'00	0.66292 AU 0°24'50	minimum elong max. Earth dist. evening rise desc. node evening max el	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Jan 21 03:15	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ≈ 0° ¥ 6° ¥03'42	1°38'20 1.33382 AU
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 05 00:46	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩58'00 20° ₩59'58	0.66292 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Jan 21 03:15 11661 Feb 03 16:32	28° ₹19'48 0° ♂ 4° ♂38'29 14° ♂26'00 29° ♂53'25 0° ≫ 0° 升 6° 升03'42 13° 升28'17	1°38'20 1.33382 AU
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 05 00:46 11660 Mar 11 00:49	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩58'00 20° ₩59'58 15° ₩17'52	0.66292 AU 0°24'50	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Jan 21 03:15 11661 Feb 03 16:32 11661 Feb 10 10:59	28° ₹19'48 0° ♂ 4° ♂38'29 14° ♂26'00 29° ♂53'25 0° ※ 0° ¥ 6° ¥03'42 13° ¥28'17 10° ¥56'29	1°38'20 1.33382 AU 27°19'10
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 05 00:46 11660 Mar 11 00:49 11660 Mar 13 23:46	9°≈39'56 0°₩ 22°₩32'32 29°₩54'02 27°₩21'25 23°₩14'50 22°₩29'55 20°₩58'00 20°₩59'58 15°₩17'52 14°₩29'15	0.66292 AU 0°24'50 0°24'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Jan 21 03:15 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 14 07:52	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ≈ 0° ¥ 6° ¥03'42 13° ¥28'17 10° ¥56'29 7° ¥22'18	1°38'20 1.33382 AU 27°19'10 0.64710 AU
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Mar 03 03:23 11660 Mar 03 03:23 11660 Mar 05 01:26 11660 Mar 05 00:46 11660 Mar 11 00:49 11660 Mar 13 23:46 11660 Mar 20 10:46	9°≈39'56 0°₩ 22°₩32'32 29°₩54'02 27°₩21'25 23°₩14'50 22°₩29'55 20°₩58'00 20°₩59'58 15°₩17'52 14°₩29'15 17°₩55'11	0.66292 AU 0°24'50	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Jan 21 03:15 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 14 07:52 11661 Feb 16 17:32	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ★ 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11
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desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 11 00:49 11660 Mar 13 23:46 11660 Mar 20 10:46 11660 Mar 29 15:34 11660 Apr 06 05:05 11660 Apr 09 04:10	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩59'58 15° ₩17'52 14° ₩29'15 17° ₩55'11 0° Ψ 11° Ψ51'39 16° Ψ35'09	0.66292 AU 0°24'50 0°24'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 14 07:52 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 18 15:59 11661 Feb 21 21:50	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ≈ 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 05 00:46 11660 Mar 11 00:49 11660 Mar 13 23:46 11660 Mar 20 10:46 11660 Mar 29 15:34 11660 Apr 06 05:05	9°≈39'56 0°₩ 22°₩32'32 29°₩54'02 27°₩21'25 23°₩14'50 22°₩29'55 20°₩58'00 20°₩59'58 15°₩17'52 14°₩29'15 17°₩55'11 0°Ψ 11°Ψ51'39	0.66292 AU 0°24'50 0°24'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 14 07:52 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 18 15:59 11661 Feb 21 21:50 11661 Feb 23 04:06	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ≈ 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 11 00:49 11660 Mar 13 23:46 11660 Mar 20 10:46 11660 Mar 29 15:34 11660 Apr 06 05:05 11660 Apr 09 04:10 11660 Apr 17 14:55	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩59'58 15° ₩17'52 14° ₩29'15 17° ₩55'11 0° Ψ 11° Ψ'51'39 16° Ψ'35'09 0° ₩	0.66292 AU 0°24'50 0°24'45 18°19'23	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 14 07:52 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 18 15:59 11661 Feb 21 21:50 11661 Feb 23 04:06 11661 Feb 25 18:13	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55 28° ≈44'05	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11
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desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 11 00:49 11660 Mar 13 23:46 11660 Mar 29 15:34 11660 Apr 06 05:05 11660 Apr 09 04:10 11660 Apr 17 14:55	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩59'58 15° ₩17'52 14° ₩29'15 17° ₩55'11 0° Ψ 11° ₩51'39 16° ₩35'09 0° ₩	0.66292 AU 0°24'50 0°24'45 18°19'23	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 14 07:52 11661 Feb 16 17:32 11661 Feb 16 17:32 11661 Feb 18 15:59 11661 Feb 21 21:50 11661 Feb 23 04:06 11661 Feb 25 18:13 11661 Mar 01 14:48	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55 28° ≈44'05 0° ₩ 2° ₩03'36 28° ₩02'48	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11 0°37'19
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desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 10 00:49 11660 Mar 11 00:49 11660 Mar 12 10:46 11660 Mar 29 15:34 11660 Apr 06 05:05 11660 Apr 09 04:10 11660 Apr 17 14:55 11660 Apr 24 18:07 11660 Apr 24 09:11 11660 Apr 25 19:40 11660 May 06 19:03 11660 May 10 17:02 11660 May 21 04:49 11660 May 26 05:50 11660 May 30 16:13 11660 Jun 02 14:03 11660 Jun 09 09:58	9°≈39'56 0° ★ 22° ₭32'32 29° ₭54'02 27° ₩21'25 23° ₩14'50 22° ₭29'55 20° ₭58'00 20° ₭59'58 15° ₩17'52 14° ₩29'15 17° ₩55'11 0° ❤ 11° ❤51'39 16° ❤35'09 0° ₭ 11° ₭31'59 10° ₭37'03 12° ₭51'49 0° ₩ 6° ₩07'45 22° ₩28'46 0° \$ 5° \$58'21 9° \$14'57 13° \$02'17	0.66292 AU 0°24'50 0°24'45 18°19'23 -1°53'05 1°52'51 1.45727 AU -0.8m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 18 15:59 11661 Feb 21 21:50 11661 Feb 23 04:06 11661 Feb 25 18:13 11661 Mar 01 14:48 11661 Mar 04 03:24 11661 Mar 22 17:12 11661 Mar 24 01:44 11661 Apr 04 09:01 11661 Apr 04 09:01 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 10 06:57 11661 Apr 10 06:57 11661 Apr 20 08:29	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55 28° ≈44'05 0° ₩ 2° ₩03'36 28° ₩02'48 0° Ψ 2° Ψ15'03 20° Ψ39'12 20° Ψ06'25 27° Ψ25'14 0° ₩	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11 0°37'19 17°54'21 -1°18'32 1°17'43
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 11 00:49 11660 Mar 12 10:46 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Apr 06 05:05 11660 Apr 09 04:10 11660 Apr 17 14:55 11660 Apr 24 18:07 11660 Apr 24 19:01 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Apr 17 14:55	9°≈39'56 0° ★ 22° ₭32'32 29° ₭54'02 27° ₭21'25 23° ₭14'50 22° ₭29'55 20° ₭59'58 15° ₭17'52 14° ₭29'15 17° ₭55'11 0° ℉ 11° ℉51'39 16° ℉35'09 0° ௧ 11° ௧ 11'59 10° ௧ 37'03 12° ௧ 51'49 0° Ⅲ 6° Ⅲ07'45 22° Ⅲ28'46 0° ⑤ 5° ⑤ 58'21 9° ⑤ 14'57 13° ⑥ 02'17 11° ⑥ 53'19 6° ⑤ 07'38	0.66292 AU 0°24'50 0°24'45 18°19'23 -1°53'05 1°52'51 1.45727 AU -0.8m 19°02'25 3°11'13	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 16 17:32 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 21 21:50 11661 Feb 23 04:06 11661 Feb 25 18:13 11661 Mar 01 14:48 11661 Mar 04 03:24 11661 Mar 22 17:12 11661 Mar 24 01:44 11661 Apr 04 09:01 11661 Apr 04 09:01 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 00 08:29 11661 Apr 20 08:29 11661 Apr 20 08:29 11661 Apr 29 19:55	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55 28° ≈44'05 0° ₩ 2° ₩03'36 28° ₩02'48 0° Ψ 2° Ψ15'03 20° Ψ39'12 20° Ψ06'25 27° Ψ25'14 0° ₩ 15° ₩35'22 0° Ш	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11 0°37'19 17°54'21 -1°18'32 1°17'43
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 11 00:49 11660 Mar 12 21:46 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Apr 06 05:05 11660 Apr 09 04:10 11660 Apr 17 14:55 11660 Apr 24 18:07 11660 Apr 24 19:03 11660 May 10 17:02 11660 May 20 10:49 11660 May 21 04:49 11660 May 30 16:13 11660 Jun 02 14:03 11660 Jun 09 09:58 11660 Jun 12 20:45 11660 Jun 18 08:29 11660 Jun 18 08:29	9°≈39'56 0° ★ 22° ₭32'32 29° ₭54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩59'58 15° ₩17'52 14° ₩29'15 17° ₩55'11 0° ❤ 11° ₩51'39 16° ₩35'09 0° ௧ 11° ௧ 11'59 10° ௧ 37'03 12° ௧ 51'49 0° Ⅲ 6° Ⅲ07'45 22° Ⅲ28'46 0° ☞ 5° ☞ 58'21 9° ℱ 14'57 13° ℱ 02'17 11° ℱ 53'19	0.66292 AU 0°24'50 0°24'45 18°19'23 -1°53'05 1°52'51 1.45727 AU -0.8m 19°02'25	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 16 17:32 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 21 21:50 11661 Feb 23 04:06 11661 Feb 25 18:13 11661 Mar 01 14:48 11661 Mar 01 14:48 11661 Mar 21 13:02 11661 Mar 22 17:12 11661 Apr 04 09:01 11661 Apr 04 09:01 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 10 06:57 11661 Apr 20 08:29 11661 Apr 29 19:55 11661 May 05 01:36	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55 28° ≈44'05 0° ₩ 2° ₩03'36 28° ₩02'48 0° Ψ 2° ₹15'03 20° ₹39'12 20° ₹06'25 27° ₹25'14 0° ₩ 15° ₩35'22	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11 0°37'19 17°54'21 -1°18'32 1°17'43 1.45322 AU
desc. node evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	11660 Jan 09 03:44 11660 Jan 21 15:27 11660 Feb 08 13:54 11660 Feb 21 15:58 11660 Feb 28 01:49 11660 Mar 03 03:23 11660 Mar 03 18:39 11660 Mar 05 01:26 11660 Mar 11 00:49 11660 Mar 12 10:46 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Apr 06 05:05 11660 Apr 09 04:10 11660 Apr 17 14:55 11660 Apr 24 18:07 11660 Apr 24 19:01 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Mar 20 10:46 11660 Apr 17 14:55	9°≈39'56 0° ₩ 22° ₩32'32 29° ₩54'02 27° ₩21'25 23° ₩14'50 22° ₩29'55 20° ₩59'58 15° ₩17'52 14° ₩29'15 17° ₩55'11 0° Ψ 11° Ψ51'39 16° Ψ35'09 0° ℧ 11° ℧37'03 12° ℧51'49 0° Ⅲ 6° Ⅲ07'45 22° Ⅲ28'46 0° © 5° ©58'21 9° ©14'57 13° ©02'17 11° ©53'19 6° ©07'38 6° ©04'34	0.66292 AU 0°24'50 0°24'45 18°19'23 -1°53'05 1°52'51 1.45727 AU -0.8m 19°02'25 3°11'13 3°10'22	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	11660 Dec 09 23:37 11660 Dec 10 18:17 11660 Dec 12 22:47 11660 Dec 17 17:46 11660 Dec 26 00:38 11660 Dec 26 02:09 11661 Jan 15 11:34 11661 Feb 03 16:32 11661 Feb 10 10:59 11661 Feb 16 17:32 11661 Feb 16 17:32 11661 Feb 16 18:40 11661 Feb 21 21:50 11661 Feb 23 04:06 11661 Feb 25 18:13 11661 Mar 01 14:48 11661 Mar 04 03:24 11661 Mar 22 17:12 11661 Mar 24 01:44 11661 Apr 04 09:01 11661 Apr 04 09:01 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 04 00:48 11661 Apr 00 08:29 11661 Apr 20 08:29 11661 Apr 20 08:29 11661 Apr 29 19:55	28° ₹19'48 0° ₹ 4° ₹38'29 14° ₹26'00 29° ₹53'25 0° ₩ 6° ₩03'42 13° ₩28'17 10° ₩56'29 7° ₩22'18 4° ₩45'55 4° ₩42'48 2° ₩43'30 30° ₹≈ 29° ≈18'55 28° ≈44'05 0° ₩ 2° ₩03'36 28° ₩02'48 0° Ψ 2° Ψ15'03 20° Ψ39'12 20° Ψ39'12 20° Ψ35'22 0° ₩ 15° ₩35'22 0° Ш 7° Ш45'57	1°38'20 1.33382 AU 27°19'10 0.64710 AU -0°38'11 0°37'19 17°54'21 -1°18'32 1°17'43 1.45322 AU -0.6m

5°Y05'30

11663 Mar 10 19:55

evening rise

11662 May 12 12:59

evening set

10°**I**I01'53

	11663 Mar 27 09:17	0°B			11664 Mar 21 03:58	0°B	
evening max el	11663 Apr 12 12:59	20° 8 30'55	22°17'30	evening max el	11664 Mar 25 03:50	4° 8 19'26	23°38'06
•	11663 Apr 21 07:55	26° 8 09'13	22 1/30	•		10° 8 41'42	23 38 00
asc. node	•	_		retrograde	11664 Apr 04 23:13	_	
retrograde	11663 Apr 22 04:29	26° 8 12'44		asc. node	11664 Apr 07 05:12	10° 8 18'04	
evening set	11663 Apr 26 21:16	24° 8 16'03	20.40150	evening set	11664 Apr 10 03:30	8° 8 31'17	0.60604.441
inferior conj	11663 May 02 04:33	17° 8 54'45	2°49'50	min. Earth dist.	11664 Apr 14 22:35	2° 8 54'47	0.68604 AU
minimum elong	11663 May 02 02:44	18° 8 01'03	2°48'59	inferior conj	11664 Apr 15 13:34	2° 8 03'24	2°21'51
min. Earth dist.	11663 May 02 01:52	18° 8 04'08	0.68747 AU	minimum elong	11664 Apr 15 11:25	2° 8 10'46	2°20'56
morning rise	11663 May 07 08:05	11° 8 43'29			11664 Apr 17 02:10	30° ₹ Υ	
direct	11663 May 12 01:26	9° 8 43'55		morning rise	11664 Apr 20 19:19	25° Y 58'49	
morning max el	11663 May 21 08:30	15° 8 10'11	22°00'20	direct	11664 Apr 24 23:39	24° Y 20'31	
desc. node	11663 May 24 20:22	18° 8 59'11		morning max el	11664 May 03 02:44	28° Y ′58′29	20°40'05
	11663 Jun 02 08:45	Π °0			11664 May 04 02:42	0° 8	
	11663 Jun 22 09:19	0 \circ		desc. node	11664 May 10 17:11	8° 8 01'22	
morning set	11663 Jun 23 04:36	1°9917'11			11664 May 25 22:47	Π °0	
max. Earth dist.	11663 Jun 28 19:23	10° © 28'31	1.41461 AU	morning set	11664 Jun 01 14:14	10° Ⅱ 10'56	
				max. Earth dist.	11664 Jun 10 01:49	23° Ⅱ 36′09	1.43424 AU
superior conj	11663 Jul 06 12:45	23° 5 43'27	-1°35'00		11664 Jun 14 00:01	0 \circ	
minimum elong	11663 Jul 06 19:12	24° © 11'52	1°34'57				
	11663 Jul 10 01:07	$0^{\circ}\Omega$		superior conj	11664 Jun 16 17:22	4° 5 31'07	-2°00'43
evening rise	11663 Jul 17 03:31	13° Ω 02'22		minimum elong	11664 Jun 16 23:29	4° 9 56'43	2°01'03
asc. node	11663 Jul 18 06:44	15° Ω 08'17		evening rise	11664 Jun 28 22:18	25° © 34'02	
	11663 Jul 26 17:04	0° m)			11664 Jul 01 10:41	$0^{\circ}\Omega$	
evening max el	11663 Aug 02 04:41	8° Mp 35'26	18°13'39	asc. node	11664 Jul 04 03:37	4° Ω 43'32	
retrograde	11663 Aug 09 08:41	12° Mp 13'16		evening max el	11664 Jul 15 17:30	21° Ω 41′25	18°03'45
evening set	11663 Aug 11 14:05	11° m 52'54		retrograde	11664 Jul 22 06:36	25° Ω 03'43	
inferior conj	11663 Aug 18 20:23	7° m 09'07	0°35'04	evening set	11664 Jul 24 20:04	24° Ω 32'21	
minimum elong	11663 Aug 18 21:32	7° Mp 06'37	0°34'16	inferior conj	11664 Jul 31 09:38	19° Ω 29'02	1°46'19
desc. node	11663 Aug 20 18:46	5° m/28'21		minimum elong	11664 Jul 31 12:13	19° Ω 22'37	1°44'58
min. Earth dist.	11663 Aug 22 04:25	4° Mp 17'24	0.59150 AU	min. Earth dist.	11664 Aug 03 11:33	16° Ω 26'29	0.61434 AU
morning rise	11663 Aug 26 01:35	1° m/32'09		desc. node	11664 Aug 06 16:06	13° Ω 44'55	
Č	11663 Aug 29 19:42	30°RΩ		morning rise	11664 Aug 07 01:48	13° Ω 27'55	
direct	11663 Sep 01 09:55	29° Ω 41'34		direct	11664 Aug 13 17:34	11° Ω 11'06	
	11663 Sep 04 01:23	0° m)		morning max el	11664 Aug 27 22:49	19° Ω 11'03	27°57'30
morning max el	11663 Sep 15 18:35	7° m) 29'24	27°33'56	. 8	11664 Sep 06 03:03	0° m)	
	11663 Oct 02 18:38	0∘ ত			11664 Sep 24 15:41	0∘ ⊽	
asc. node	11663 Oct 14 07:52	21° ₽ 05'08		morning set	11664 Sep 30 08:05	11° ≏ 14'57	
morning set	11663 Oct 17 05:57	27° ₽ 07'03		asc. node	11664 Sep 30 04:35	10° £ 56'59	
	11663 Oct 18 14:28	0°M		max. Earth dist.	11664 Oct 06 00:26	23° £ 21'31	1.31673 AU
max. Earth dist.	11663 Oct 23 17:36		1.31352 AU	man. Darm dige.	1100.00.00	23 —2131	1.510,5110
max. Earth dist.	11003 000 25 17.50	11 11013 22	1.51552110	superior conj	11664 Oct 07 16:56	27° ₽ 04'05	1°07'53
superior conj	11663 Oct 24 06:39	12°M28'01	1°23'45	minimum elong	11664 Oct 07 14:41	26° ♀ 51'40	1°07'49
minimum elong	11663 Oct 24 04:39	12°M16'55	1°23'58	minimum ciong	11664 Oct 09 00:45	0°M	1 07 15
evening rise	11663 Oct 31 00:05	27°Ml17'07	1 23 30	evening rise	11664 Oct 14 10:33	11°ML52'23	
evening rise	11663 Nov 01 06:44	0° √		evening rise	11664 Oct 23 11:59	0° ∡ 7	
desc. node	11663 Nov 16 15:51	27° ∡ 58'41		desc. node	11664 Nov 02 13:05	15° ∡ 749'30	
dese. Hode	11663 Nov 18 00:42	0° 궁		evening max el	11664 Nov 09 11:31	23° × ⁷ 45'55	24°54'13
evening max el	11663 Nov 28 20:20	13°る03'23	26°17'41	evening max er	11664 Nov 19 01:26	0° ろ	24 34 13
retrograde	11663 Dec 12 18:48	20°る08'39	20 1/41	retrograde	11664 Nov 23 07:03	0°る41'12	
evening set	11663 Dec 19 06:09	18°る27'25		retrograde	11664 Nov 27 13:22	30°R. ₹	
min. Earth dist.	11663 Dec 23 09:40	15°る51'58	0.58613 AU	evening set	11664 Nov 28 20:25	29° 🚜 32'05	
inferior conj	11663 Dec 26 12:53	13° る 31'38		min. Earth dist.	11664 Dec 03 23:23	26° x 47'56	0.56681 AU
minimum elong	11663 Dec 26 21:10	13°る3218	4°21'23	inferior conj	11664 Dec 06 14:51	25° x '47 30 25° x '05'14	
•	11664 Jan 03 14:57	9° ろ 03'00	4 21 23	3		24° x 54'28	5°23'57
morning rise		9° ろ 03'00 8° ろ 47'53		minimum elong	11664 Dec 06 21:29		5-2551
direct	11664 Jan 05 17:41			morning rise	11664 Dec 15 00:45	20° 🗷 57'37	
asc. node	11664 Jan 10 07:44	10°る03'27	10020100	direct	11664 Dec 17 09:35	20° x ⁷ 41'51	10020127
morning max el	11664 Jan 13 21:37	12°る48'04	18°28'08	morning max el	11664 Dec 26 20:48	25° 🖈 14'52	19°20'37
mannint	11664 Jan 25 10:50	0°≈ 8°a a 1 5′0?		asc. node	11664 Dec 27 04:51	25° х ³34'35	
morning set	11664 Jan 29 19:32	8° ≈ 15'03			11664 Dec 30 23:16	0°る	
	11//AF 1 07 20 21	25025125	0027101	morning set	11665 Jan 12 21:11	22° る 42'06	
superior conj	11664 Feb 07 20:36	25°≈25'26	0°37'01		11665 Jan 16 12:37	0° ≈	
minimum elong	11664 Feb 07 23:02	25°≈36'40	0°37'08		11/// 1 21 22 22	00 - 50150	100212.5
1 1	11664 Feb 10 08:42	0°) €		superior conj	11665 Jan 21 00:04	8°≈50'58	1°03'35
desc. node	11664 Feb 12 15:41	4°) €05'40	1 40450 : **	minimum elong	11665 Jan 21 03:02	9°≈05'21	1°03'49
max. Earth dist.	11664 Feb 15 07:41	8°) 45′06	1.40459 AU	max. Earth dist.	11665 Jan 27 13:48	21°≈14'07	1.38237 AU
evening rise	11664 Feb 19 15:09	16°) €02'20		desc. node	11665 Jan 29 12:22	24°≈43'45	
	11664 Feb 28 09:14	0° Ƴ		evening rise	11665 Jan 31 07:40	27° ≈ 54'39	

	11665 Feb 01 12:35	0° \		desc. node	11666 Jan 16 09:10	15°≈16'24	
	11665 Feb 20 20:00	0°Υ		desc. Hode	11666 Jan 25 02:54	13 ≈ 10 24 0° ∺	
evening max el	11665 Mar 07 17:25	18° Υ 10'31	24°56'38		11666 Feb 16 07:26	0°Υ	
retrograde	11665 Mar 19 13:55	25° Υ 04'15	24 30 38	evening max el	11666 Feb 18 07:03	0 1 2° Υ 00'51	26°05'55
•	11665 Mar 25 06:08	23°42'21		retrograde	11666 Mar 02 23:42	2 1 00 31 9° Υ 14'42	20 03 33
evening set	11665 Mar 25 02:32	22 \ \ \ 42 \ 21 \ 22^\cdot \ \ \ \ \ 49'54		•		9 1 14 42 6° Υ 44'41	
asc. node		17° Υ 41'15	0.60022 ATT	evening set	11666 Mar 09 03:32	3° Y 55'03	
min. Earth dist.	11665 Mar 29 17:31	16° Y 12'10	0.68032 AU 1°44'10	asc. node	11666 Mar 11 23:51	2°Υ18'35	0.67050 AII
inferior conj	11665 Mar 30 20:33	16° Υ 12'10	1°44'10 1°43'21	min. Earth dist.	11666 Mar 13 08:26	2° γ 18'33 0° Υ 17'17	0.67050 AU 0°56'42
minimum elong	11665 Mar 30 18:31		1°43′21	inferior conj	11666 Mar 14 23:33		
morning rise	11665 Apr 05 07:08	10°Υ15'38		minimum elong	11666 Mar 14 22:12	0° Υ 21'30 30° R X	0°56'15
direct	11665 Apr 08 23:11	8° Y 58'16	10022156		11666 Mar 15 05:07	30°₹ X 24° X 30'37	
morning max el	11665 Apr 16 04:30	12° Υ 57'59	19°32'56	morning rise	11666 Mar 20 17:33		
desc. node	11665 Apr 27 13:55	27° Y 36'06	0.7	direct	11666 Mar 23 22:28	23°) € 32'15	10041107
greatest brilliancy	11665 Apr 28 21:03	29° Y 29'51	-0.7m	morning max el	11666 Mar 30 13:43	27° ¥ 06'32 0° Ƴ	18°41'26
. ,	11665 Apr 29 05:15	0°8		1 1	11666 Apr 02 04:59	17° Y 34'54	
morning set	11665 May 11 13:56	18° 8 42'52		desc. node	11666 Apr 14 10:38		
n d r	11665 May 18 20:45	0°П 7°П 2012 4	1 44066 444	morning set	11666 Apr 21 02:47	27° Y 59'28	
max. Earth dist.	11665 May 23 15:01	7° Ⅱ 28'34	1.44866 AU	75 at 15 a	11666 Apr 22 09:36	0°8	
	11/// 27 27 21 7/		2012102	max. Earth dist.	11666 May 06 09:17	21° 8 51'29	1.45633 AU
superior conj	11665 May 27 21:56	14° Ⅱ 17'48			1166634 07 00 07	2221 122122	200410
minimum elong	11665 May 27 23:12	14° Ⅱ 22'49	2°13'44	superior conj	11666 May 07 08:27	23° 8 22'09	
	11665 Jun 06 13:16	0° ©		minimum elong	11666 May 07 02:12	22° 8 57'42	2°06'26
evening rise	11665 Jun 10 20:36	7° © 10'38			11666 May 11 13:53	0∘Щ	
asc. node	11665 Jun 21 00:34	23° © 58'27		evening rise	11666 May 22 18:58	17° ∐ 47'08	
	11665 Jun 25 01:39	$0^{\circ}\Omega$		greatest brilliancy	11666 May 29 23:43	29° Ⅱ 17'20	-0.9m
evening max el	11665 Jun 29 07:32	5° Ω 06'35	18°12'35		11666 May 30 10:29	0∘ ௐ	
retrograde	11665 Jul 05 16:04	8° Ω 28'00		asc. node	11666 Jun 07 21:35	12° © 46'04	
evening set	11665 Jul 08 13:43	7° Ω 43'03		evening max el	11666 Jun 12 19:46	18° © 43'16	18°39'17
inferior conj	11665 Jul 14 14:16	2° Ω 21'49	2°34'12	retrograde	11666 Jun 19 09:03	22° © 17'28	
minimum elong	11665 Jul 14 16:44	2° Ω 14'54	2°32'58	evening set	11666 Jun 22 14:58	21° © 17'25	
	11665 Jul 16 16:59	30° ℝ જી		inferior conj	11666 Jun 28 06:21	15° © 39'59	3°02'25
min. Earth dist.	11665 Jul 17 03:54	29° © 30'18	0.63618 AU	minimum elong	11666 Jun 28 07:56	15° © 35'06	3°01'27
morning rise	11665 Jul 20 18:11	26° © 06'45		min. Earth dist.	11666 Jun 30 05:20	13° © 16'11	0.65510 AU
desc. node	11665 Jul 24 13:23	24°500'00		morning rise	11666 Jul 04 00:03	9° © 18'43	
direct	11665 Jul 27 10:26	23° © 32'00		direct	11666 Jul 10 11:03	6° © 36'29	
	11665 Aug 08 16:48	0 \circ Ω		desc. node	11666 Jul 11 10:38	6° ॐ 39'52	
morning max el	11665 Aug 10 07:32	1° Ω 33'46	27°43'20	morning max el	11666 Jul 23 18:21	14° © 28'13	26°56'37
	11665 Aug 31 08:18	0° m)			11666 Aug 05 09:46	0 \circ Ω	
morning set	11665 Sep 14 02:50	24° m 59'25			11666 Aug 24 01:41	0° m)	
	11665 Sep 16 14:06	0∘ ত		morning set	11666 Aug 28 11:19	8° Mp 12'35	
asc. node	11665 Sep 17 01:17	0° ≏ 57'46		max. Earth dist.	11666 Sep 01 17:30	16°M)35'14	1.33858 AU
max. Earth dist.	11665 Sep 19 01:28	5° Ω 09'59	1.32507 AU	asc. node	11666 Sep 03 21:58	21° Mp 02'44	
superior conj	11665 Sep 21 23:53	11° ≏ 26'54	0°46'45	superior conj	11666 Sep 06 01:17	25° m 29'39	0°20'40
minimum elong	11665 Sep 21 21:55	11° ⊆ 16'13	0°46'28	minimum elong	11666 Sep 06 00:14	25° m) 24'08	0°20'19
evening rise	11665 Sep 28 21:56	26° £ 27'59	0 40 20	minimum ciong	11666 Sep 08 04:29	0° ⊽	0 20 1)
evening rise	11665 Sep 30 13:54	0°M₁		evening rise	11666 Sep 13 08:17	0 — 10° ≏ 57'46	
	11665 Oct 18 07:11	0° × 7		evening rise	11666 Sep 23 03:24	0°M	
desc. node	11665 Oct 20 10:22	2° × ⁷ 24'48		evening max el	11666 Oct 03 12:19	14°M 05'22	21°36'06
evening max el	11665 Oct 21 22:03	3°×755'32	23°14'32	desc. node	11666 Oct 07 07:44	17°ML17'01	21 30 00
retrograde	11665 Nov 04 06:10	10° ₹ 33'54	23 14 32	retrograde	11666 Oct 15 19:21	20°M12'09	
evening set	11665 Nov 08 11:12	9° x 55'26		evening set	11666 Oct 18 15:07	19°M53'59	
min. Earth dist.	11665 Nov 15 07:38	6° × ⁷ 44'14	0.55250 AU	inferior conj	11666 Oct 27 14:30	15°M58'16	-5°10'35
inferior conj	11665 Nov 16 21:09	5° × ⁷ 49'50		minimum elong	11666 Oct 27 06:22	16°M09'39	5°17'39
minimum elong	11665 Nov 16 20:54	5° x 49 30	5°49'49	min. Earth dist.	11666 Oct 27 14:09	15°M58'45	0.54591 AU
morning rise	11665 Nov 25 08:16	1°×758'59	3 4747	morning rise	11666 Nov 04 22:41	12°M 10'08	0.54571 AO
direct	11665 Nov 28 06:55	1° × ⁷ 38'16		direct	11666 Nov 08 15:53	11°M40'11	
morning max el	11665 Dec 09 06:41	6° × 751'16	20°36'03	morning max el	11666 Nov 21 03:03	17°M36'28	22°12'11
asc. node	11665 Dec 14 01:54	12° x '31'10	20 3003	asc. node	11666 Nov 30 22:53	0° ₹ 06'14	22 12 11
450. HOUC	11665 Dec 24 12:48	12 メ ・21 12		450. HOUC	11666 Nov 30 21:19	0° ⊼ ¹	
morning set	11665 Dec 28 04:30	0 る 7°る23'02		morning set	11666 Dec 12 15:01	0 x . 22° ∡ 109'41	
morning set	11003 DCC 28 04.30	1 023 02		morning set	11666 Dec 16 07:22	22° x *09'41'	
superior conj	11666 Jan 04 16:03	22° る 50'54	1°22'26		11000 Dec 10 U/.22	0 0	
		22°650'54 23° る 03'26	1°22'26 1°22'54	superior con-	11666 Dag 10 16:47	7° る 13'42	103/101
minimum elong	11666 Jan 04 18:30 11666 Jan 08 05:42	23° ℃ 03′26	1 44 14	superior conj minimum elong	11666 Dec 19 16:47 11666 Dec 19 18:14	7°る13°42 7°る21'23	1°34'01 1°34'41
max. Earth dist.	11666 Jan 09 22:01	0 ≈ 3°≈16'27	1.36107 AU	max. Earth dist.	11666 Dec 23 12:11	7 3 21 23	1.34261 AU
evening rise	11666 Jan 13 19:06	3 ≈1627 10°≈35'26	1.5010/ AU	evening rise	11666 Dec 27 21:44	13 3 0913	1.57401 AU
5 , ching 1150	11000 Juli 13 17.00	10 7000 20		0 , oming 1150	11000 200 2/ 21.44	25 05405	

	11666 Dec 31 03:09	0° ≈			11667 Nov 23 19:03	0° ∡ ″	
desc. node	11667 Jan 03 06:02	5° ≈ 38'18		morning set	11667 Nov 27 02:51	6° ∡ ¹56'46	
	11667 Jan 18 17:20	0° ∀				_	
evening max el	11667 Jan 31 20:34	15° ¥ 41'13	26°58'48	superior conj	11667 Dec 03 23:24	21° х 51'08	1°38'53
retrograde	11667 Feb 14 03:45	23°) €04'45		minimum elong	11667 Dec 03 23:42	21° 🗷 52'45	1°39'37
evening set	11667 Feb 20 17:49	20°) 31'28 16°) 39'15	0.65671 ATT	max. Earth dist.	11667 Dec 06 10:04	27° メ 07'38 0°る	1.32828 AU
min. Earth dist. inferior conj	11667 Feb 24 17:12 11667 Feb 26 20:20	16° ★ 39°13	0.65671 AU	evening rise	11667 Dec 07 18:31 11667 Dec 11 12:07	7°る42'23	
minimum elong	11667 Feb 26 20:21	14° X 12'52		desc. node	11667 Dec 21 02:58	7 54223 25° 5 44'10	
transit middle	11667 Feb 26 20:21	14° X 12'52		dese. Hode	11667 Dec 23 15:17	0°≈	
transit begin	11667 Feb 26 17:22	14° H 21'25	0 0023	evening max el	11668 Jan 14 09:02	29° ≈ 01'24	27°28'09
transit end	11667 Feb 26 23:19	14°) 04'20		evening man er	11668 Jan 15 10:14	0° ∀	27 20 05
asc. node	11667 Feb 26 21:12	14°) 10′24		retrograde	11668 Jan 28 01:30	6° ¥ 25'37	
morning rise	11667 Mar 05 00:14	8° ¥ 38'14		evening set	11668 Feb 03 22:39	3° ¥ 55'56	
direct	11667 Mar 07 19:16	7°) 55′54		min. Earth dist.	11668 Feb 07 17:49	0°) (34′49	0.63946 AU
morning max el	11667 Mar 14 04:28	11° ¥ 17′25	18°06'39		11668 Feb 08 07:31	30° R ≈	
	11667 Mar 27 11:04	0° Y		inferior conj	11668 Feb 10 08:18	27° ≈ 52'52	-1°07'44
desc. node	11667 Apr 01 07:19	7° Y ′50'48		minimum elong	11668 Feb 10 10:26	27° ≈ 47'18	1°06'22
morning set	11667 Apr 01 19:03	8° Y ′38'27		asc. node	11668 Feb 13 18:34	24° ≈ 35′21	
	11667 Apr 15 03:05	0° 8		morning rise	11668 Feb 17 00:19	22° ≈ 32'43	
				direct	11668 Feb 19 11:09	22° ≈ 02'45	
superior conj	11667 Apr 16 16:32	2° 8 27'29		morning max el	11668 Feb 25 21:58	25° ≈ 22'39	17°48'55
minimum elong	11667 Apr 16 07:09	1° 8 50'32	1°39'18		11668 Feb 29 19:31	0° ∀	
max. Earth dist.	11667 Apr 19 05:23	6° 8 26'06	1.45648 AU	morning set	11668 Mar 13 15:08	20°) (38′07	
evening rise	11667 May 02 19:10	27° 8 32'27		desc. node	11668 Mar 18 03:56	28° 升 18′28 0° Ƴ	
	11667 May 04 09:18	0°Ⅱ 16°Ⅱ41'41	0.7		11668 Mar 19 04:08	0.4	
greatest brilliancy	11667 May 15 07:02 11667 May 24 22:39	16°Щ41'41 0°©	-0.7m	superior conj	11668 Mar 26 15:28	12° Ƴ 18'41	1001114
asc. node	11667 May 25 18:41	0°957'35		minimum elong	11668 Mar 26 08:59	11° Υ 52'25	1°00'27
evening max el	11667 May 27 03:54	2° © 25'55	19°22'56	max. Earth dist.	11668 Apr 01 00:16	20° Υ '54'15	1.44929 AU
retrograde	11667 Jun 03 06:15	6°\$25'30	19 22 30	max. Earth dist.	11668 Apr 06 19:34	0°8	1.11929110
evening set	11667 Jun 06 20:51	5°909'36		evening rise	11668 Apr 11 07:06	6° 8 54'36	
C	11667 Jun 11 17:33	30°RⅡ		Č	11668 Apr 26 17:23	Π°	
inferior conj	11667 Jun 12 06:30	29° Ⅱ 17'37	3°14'38	evening max el	11668 May 09 06:35	16° Ⅱ 10'43	20°21'50
minimum elong	11667 Jun 12 06:59	29° Ⅱ 16′03	3°13'52	asc. node	11668 May 11 15:53	18° Ⅲ 20′51	
min. Earth dist.	11667 Jun 13 14:41	27° Ⅲ 32′09	0.67003 AU	retrograde	11668 May 17 05:03	20° Ⅱ 45'47	
morning rise	11667 Jun 17 16:40	22° Ⅲ 55'31		evening set	11668 May 21 05:05	19° Ⅱ 13'50	
direct	11667 Jun 23 18:24	20° Ⅱ 15'49		inferior conj	11668 May 26 11:57	13° Ⅱ 08'59	3°13'43
desc. node	11667 Jun 28 07:48	21° Ⅲ 29'09		minimum elong	11668 May 26 11:22	13° Ⅱ 10'59	
morning max el	11667 Jul 06 05:08	27° Ⅱ 43'00	25°45'41	min. Earth dist.	11668 May 27 06:00	12° Ⅲ 07'13	0.68049 AU
	11667 Jul 08 08:51	0°©		morning rise	11668 May 31 17:21	6° Ⅱ 49'30	
	11667 Jul 30 02:19	0°N		direct	11668 Jun 06 07:24	4° Ⅲ 20'51 7° Ⅲ 58'51	
morning set max. Earth dist.	11667 Aug 11 05:54 11667 Aug 14 23:12	20° Ω 45'48 27° Ω 42'32	1.35682 AU	desc. node morning max el	11668 Jun 14 04:52 11668 Jun 17 14:58	/°Щ58′51 11°Щ07′55	24920116
max. Lattii uist.	11667 Aug 14 23:12 11667 Aug 16 03:53	0° m)	1.55062 AU	morning max cr	11668 Jul 02 16:05	0°95	24 20 10
	1100/ Aug 10 03.33	עווי ט			11668 Jul 21 19:52	0° Ω	
superior conj	11667 Aug 20 18:28	9° m 05'55	-0°09'43	morning set	11668 Jul 23 05:56	2° Ω 26'46	
minimum elong	11667 Aug 20 19:04	9° m) 08'56	0°09'56	max. Earth dist.	11668 Jul 26 21:19		1.37867 AU
behind sun begin	11667 Aug 20 14:10	8° m)44'14					
behind sun end	11667 Aug 20 23:59	9° m 33'41		superior conj	11668 Aug 03 00:06	22° Ω 07′10	-0°43'00
asc. node	11667 Aug 21 18:41	11°Mp08'25		minimum elong	11668 Aug 03 03:00	22° Q 21'08	0°43'01
evening rise	11667 Aug 28 15:34	25° m 16'17			11668 Aug 07 01:07	0° ™	
	11667 Aug 30 23:21	0∘ ⊽		asc. node	11668 Aug 07 15:25	1° Mp 10'42	
evening max el	11667 Sep 15 14:35	24° ≏ 49'36	20°12'34	evening rise	11668 Aug 11 17:12	9° m) 16'19	
desc. node	11667 Sep 24 05:08	29° ♀ 57'35			11668 Aug 23 04:34	0∘ ত	
	11667 Sep 24 10:24	0°M,		evening max el	11668 Aug 28 06:48	6° £ 21'07	19°09'41
retrograde	11667 Sep 26 08:15	0°M09'49		retrograde	11668 Sep 06 08:30	10° ♀ 52'30	
evening set	11667 Sep 28 08:08	29° £ 59'34		evening set desc. node	11668 Sep 08 04:50	10° ♀ 42'02	
inferior conj	11667 Sep 28 07:07 11667 Oct 07 08:33	30°R ≏ 26° ≏ 01'34	-3°54'55	inferior conj	11668 Sep 10 02:33 11668 Sep 16 16:42	10° £ 10'44 6° £ 30'19	-2°03'45
minimum elong	11667 Oct 07 08.33	26° £ 01 34 26° £ 15'51		minimum elong	11668 Sep 16 11:18	6° £ 3019	
min. Earth dist.	11667 Oct 08 22:40	25° 2 05'01	0.54865 AU	min. Earth dist.	11668 Sep 19 11:05	4° 2 38'44	0.56046 AU
morning rise	11667 Oct 15 12:45	21° ⊆ 54'42		morning rise	11668 Sep 24 14:51	1° ≏ 49'23	
direct	11667 Oct 20 01:45	21° ⊆ 10'03		direct	11668 Sep 29 23:35	0° ≙ 42'44	
morning max el	11667 Nov 02 15:04	27° ≏ 47'50	23°59'40	morning max el	11668 Oct 14 02:35	7° ≏ 54'26	25°42'28
	11667 Nov 04 19:34	0°M₊			11668 Oct 30 11:17	0° M ₊	
asc. node	11667 Nov 17 19:49	18° ™ 35′59		asc. node	11668 Nov 03 16:39	7° ™ 38'46	

	1166037 10 1110	2107 20100			11660 0 . 25 22 25	com 11111	
morning set	11668 Nov 10 14:12	21°M39'00		morning set	11669 Oct 25 23:25	6°M11'41	
	11668 Nov 14 10:04	0° ∡ ¹			11((0.N) 01 21 00	210 M 21120	1020124
	11((0 N 17 00-22	(0.725140	1027124	superior conj	11669 Nov 01 21:08	21°M21'20	1°30'24
superior conj	11668 Nov 17 09:32	6° 🗷 35'49		minimum elong max. Earth dist.	11669 Nov 01 19:29	21°M12'08	1°30'48
minimum elong max. Earth dist.	11668 Nov 17 08:44 11668 Nov 18 14:41	6° х ⁷ 31'27 9° х ⁷ 16'51	1°38'12 1.31864 AU	max. Earth dist.	11669 Nov 01 23:10 11669 Nov 05 18:40	21°MJ32'40 0° <i>₹</i> 1	1.31397 AU
evening rise	11668 Nov 24 11:10	21° x ⁷ 52'20	1.31804 AU	evening rise	11669 Nov 03 16:40 11669 Nov 08 16:21	0 x ¹ 6° x ¹16'46	
evening rise	11668 Nov 28 11:44	21 x ·3220		evening rise	11669 Nov 08 16.21 11669 Nov 21 01:17	0°중	
desc. node	11668 Dec 06 24:00	0 3 15° る 27'05		desc. node	11669 Nov 23 21:07	0 3 4° る 37'16	
desc. node	11668 Dec 16 14:18	0°≈		evening max el	11669 Dec 08 22:36	23°る53'06	26°53'07
evening max el	11668 Dec 26 18:39	0 ~ 11° ≈ 49'50	27°27'41	evening max er	11669 Dec 17 19:35	0°≈	20 33 07
retrograde	11669 Jan 09 15:48	11 ≈ 4930	2/2/71	retrograde	11669 Dec 22 21:03	0 ~ 1° ≈ 02'26	
evening set	11669 Jan 16 15:12	16°≈50'27		retrograde	11669 Dec 27 19:30	1 ~02 20 30°Rる	
min. Earth dist.	11669 Jan 20 08:45	13°≈55'07	0.61954 AU	evening set	11669 Dec 29 15:37	29°る05'47	
inferior conj	11669 Jan 23 08:25	11°≈09'58		min. Earth dist.	11670 Jan 02 12:55	26°る27'02	0.59825 AU
minimum elong	11669 Jan 23 13:17	10°≈58'43	2°20'09	inferior conj	11670 Jan 05 17:03	23° ප් 53'40	
morning rise	11669 Jan 30 14:00	6°≈07'06	2 20 0)	minimum elong	11670 Jan 06 00:32		3°37'59
asc. node	11669 Jan 30 15:51	6°≈05'39		morning rise	11670 Jan 13 12:14	19° ට 11'14	3 37 67
direct	11669 Feb 01 18:53	5°≈45'41		direct	11670 Jan 15 14:32	18° る 54'42	
morning max el	11669 Feb 08 15:04	9°≈13'53	17°48'56	asc. node	11670 Jan 17 13:05	19° ろ 09'27	
morning must vi	11669 Feb 22 07:46	0° \	17 1000	morning max el	11670 Jan 23 04:12	22°る40'27	18°07'58
morning set	11669 Feb 24 09:24	3° ¥ 41′07		morning man vi	11670 Jan 28 21:42	0°≈	10 0, 50
desc. node	11669 Mar 05 00:33	18° ¥ 54'03		morning set	11670 Feb 07 19:31	17°≈27'43	
desc. Hode	1100) Mai 05 00.55	10 7(3103		morning sec	11670 Feb 14 13:21	0° \	
superior conj	11669 Mar 07 14:16	23° ₩ 18'05	-0°19'39		110,0100 1. 13.21	٠,٨	
minimum elong	11669 Mar 07 12:24	23°) 10'12		superior conj	11670 Feb 17 12:53	5°) 23'47	0°18'13
minimum ciong	11669 Mar 11 14:15	0°Υ	0 19 12	minimum elong	11670 Feb 17 14:19	5° ¥ 30'08	0°18'23
max. Earth dist.	11669 Mar 14 16:13	5° Υ '02'39	1.43563 AU	desc. node	11670 Feb 19 21:10	9° ₩ 33'19	0 10 23
evening rise	11669 Mar 21 22:31	16° Υ 34'20	1.15005110	max. Earth dist.	11670 Feb 25 03:57	18°) € 37'53	1.41691 AU
	11669 Mar 30 18:15	0°8		evening rise	11670 Mar 02 05:51	26°) 59'32	
evening max el	11669 Apr 22 03:46	29° 8 57'00	21°32'53	evening rise	11670 Mar 04 02:55	0°Υ	
e , eming man er	11669 Apr 22 04:58	0°II	21 0200		11670 Mar 24 11:16	0°8	
asc. node	11669 Apr 28 13:09	4° Ⅱ 41'29		evening max el	11670 Apr 04 20:28	13° 8 44'33	22°51'34
retrograde	11669 May 01 03:24	5° Ⅱ 13'37		retrograde	11670 Apr 14 23:43	19° 8 43'33	
evening set	11669 May 05 13:49	3° II 25'51		asc. node	11670 Apr 15 10:27	19° 8 42'36	
<i>8</i>	11669 May 08 18:17	30°R₩		evening set	11670 Apr 19 21:23	17° 8 40'49	
inferior conj	11669 May 10 20:22	27° 8 10'02	3°01'31	inferior conj	11670 Apr 25 05:41	11° 8 16'32	2°39'09
minimum elong	11669 May 10 18:55	27° 8 15'05	3°00'43	minimum elong	11670 Apr 25 03:40	11° 8 23'30	2°38'15
min. Earth dist.	11669 May 11 01:05	_	0.68632 AU	min. Earth dist.	11670 Apr 24 21:44		0.68752 AU
morning rise	11669 May 15 23:48	20° 8 55'23		morning rise	11670 Apr 30 09:51	5° 8 08'07	
direct	11669 May 21 00:55	18° 8 43'55		direct	11670 May 04 21:42	3° 8 17'22	
morning max el	11669 May 31 01:29	24° 8 40'06	22°50'23	morning max el	11670 May 13 16:00	8° 8 21'31	21°24'46
desc. node	11669 Jun 01 01:48	25° 8 42'55		desc. node	11670 May 18 22:39	14° 8 20'42	
	11669 Jun 04 20:09	$\Pi^{\circ}0$			11670 May 30 09:07	$\Pi^{\circ}0$	
	11669 Jun 26 02:32	0ಂತಾ		morning set	11670 Jun 14 05:07	22° II 30'35	
morning set	11669 Jul 04 06:30	13° 5 03'30			11670 Jun 18 21:26	0°ಅ	
max. Earth dist.	11669 Jul 08 18:54	20°538'22	1.40190 AU	max. Earth dist.	11670 Jun 20 21:55	3°517'52	1.42357 AU
	11669 Jul 14 03:29	$0^{\circ}\Omega$					
				superior conj	11670 Jun 28 08:08	15°5947'17	-1°47'06
superior conj	11669 Jul 16 14:10	4° £ 24'32	-1°16'49	minimum elong	11670 Jun 28 14:53	16° © 16'21	1°47'10
minimum elong	11669 Jul 16 19:34	4° Ω 49'04	1°16'41		11670 Jul 06 09:20	$0^{\circ}\Omega$	
asc. node	11669 Jul 25 12:13	21° Ω 06′06		evening rise	11670 Jul 09 14:21	5° Ω 48'23	
evening rise	11669 Jul 26 10:08	22° Ω 50′24		asc. node	11670 Jul 12 09:04	10° Ω 50'19	
	11669 Jul 30 05:16	0° m y			11670 Jul 24 11:59	0° m y	
evening max el	11669 Aug 11 10:13	18° m 36'58	18°28'09	evening max el	11670 Jul 25 20:43	1° m √27'33	18°07'03
retrograde	11669 Aug 19 03:28	22° m 29'50		retrograde	11670 Aug 01 16:56	4° m 56'55	
evening set	11669 Aug 21 04:51	22° My $14'06$		evening set	11670 Aug 04 01:48	4° My 32′08	
desc. node	11669 Aug 27 23:56	18° m) 25'17			11670 Aug 10 15:34	30° R €	
inferior conj	11669 Aug 28 21:58	17° m 42'12	-0°17'05	inferior conj	11670 Aug 11 00:31	29° Ω 39'28	1°08'22
minimum elong	11669 Aug 28 21:19	17° m 43'30		minimum elong	11670 Aug 11 02:31	29° Ω 34'51	1°07'12
min. Earth dist.	11669 Sep 01 05:03	15° m 07'08	0.57909 AU	min. Earth dist.	11670 Aug 14 06:51	26° Ω 40'39	0.60122 AU
morning rise	11669 Sep 05 10:17	12° m 24'17		desc. node	11670 Aug 14 21:17	26° Ω 09'41	
direct	11669 Sep 11 11:45	10° Mp $50'13$		morning rise	11670 Aug 18 00:14	23° Ω 51′07	
morning max el	11669 Sep 25 19:35	18° My $26^{\circ}23$	27°02'56	direct	11670 Aug 24 12:33	21° Ω 48'57	
	11669 Oct 05 12:42	0∘ ⊽		morning max el	11670 Sep 07 20:09	29° Ω 42'08	27°48'50
asc. node	11669 Oct 21 13:25	27° ♀ 05'53			11670 Sep 08 03:21	0° m	
	11669 Oct 23 00:03	0° M			11670 Sep 29 13:07	0∘ ⊽	

asc. node	11670 Oct 08 10:08	16° ≙ 50'41		morning set	11671 Sep 24 04:01	4° ≏ 29'25	
morning set	11670 Oct 10 04:43	20° ⊆ 30'38		asc. node	11671 Sep 25 06:49	6° £ 46'52	
morning sec	11670 Oct 14 14:49	0° ™		max. Earth dist.	11671 Sep 29 12:56	15° ≏ 47'08	1.31966 AU
max. Earth dist.	11670 Oct 16 07:57	3°M46'44	1.31429 AU	man. Darm dige.	110/1 Sep 2/ 12.00	10 - 17 00	1.51700110
				superior conj	11671 Oct 01 17:31	20° ჲ 33'28	0°59'33
superior conj	11670 Oct 17 08:26	6°ML02'39	1°17'40	minimum elong	11671 Oct 01 15:19	20° ≏ 21'23	0°59'22
minimum elong	11670 Oct 17 06:17	5°M50'39	1°17'46	C	11671 Oct 06 00:35	0° M	
evening rise	11670 Oct 24 01:28	20°M50'04		evening rise	11671 Oct 08 12:32	5°M25'51	
	11670 Oct 28 10:59	0° ∡ ¹			11671 Oct 21 08:32	0° ∡ ¹	
desc. node	11670 Nov 10 18:18	23° ∡ ¹02'09		desc. node	11671 Oct 28 15:34	10° ∡ °23'38	
	11670 Nov 16 01:10	ರ∘ರ		evening max el	11671 Nov 02 06:33	15° ∡ ¹27'37	24°12'38
evening max el	11670 Nov 20 18:25	5° る 03'47	25°45'11	retrograde	11671 Nov 15 22:36	22° ∡ 17'44	
retrograde	11670 Dec 04 15:45	12° る 04'35		evening set	11671 Nov 20 23:17	21° ∡ °22'06	
evening set	11670 Dec 10 19:31	10° る 36'28		min. Earth dist.	11671 Nov 26 17:32	18° ∡ "28'42	0.55992 AU
min. Earth dist.	11670 Dec 15 06:52	7° る 59'53	0.57751 AU	inferior conj	11671 Nov 28 23:55	17° ∡ °05′13	-5°42'06
inferior conj	11670 Dec 18 06:48	5° る 54'18	-4°53'28	minimum elong	11671 Nov 29 04:13	16° ∡ 758'35	5°40'58
minimum elong	11670 Dec 18 14:59	5° る 39'58	4°50'47	morning rise	11671 Dec 07 11:11	13° ∡ °06′13	
morning rise	11670 Dec 26 12:57	1° る 34'29		direct	11671 Dec 10 00:56	12° ∡ ¹48'58	
direct	11670 Dec 28 17:36	1° る 19'26		morning max el	11671 Dec 20 03:27	17° ∡ ³37'59	19°50'05
asc. node	11671 Jan 04 10:12	3° ⋜ 49'52		asc. node	11671 Dec 22 07:16	19° ∡ 54'38	
morning max el	11671 Jan 06 09:36	5° る 32'06	18°47'46		11671 Dec 29 07:26	0°ප	
	11671 Jan 21 19:25	0° ≈		morning set	11672 Jan 06 20:55	16° ප 16'28	
morning set	11671 Jan 22 16:35	1° ≈ 43′11			11672 Jan 13 15:20	0° ≈	
superior conj	11671 Jan 31 07:16	18° ≈ 24'18	0°49'14	superior conj	11672 Jan 14 16:33	2° ≈ 05'39	
minimum elong	11671 Jan 31 10:05	18° ≈ 37'36	0°49'22	minimum elong	11672 Jan 14 19:23	2° ≈ 19'43	1°12'50
desc. node	11671 Feb 06 17:52	0°) 12'55		max. Earth dist.	11672 Jan 20 17:38	13° ≈ 44'54	1.37298 AU
	11671 Feb 06 14:58	0° ∀		evening rise	11672 Jan 24 11:08	20° ≈ 33'23	
max. Earth dist.	11671 Feb 07 11:32	1°) €31'00	1.39519 AU	desc. node	11672 Jan 24 14:38	20° ≈ 49'01	
evening rise	11671 Feb 11 10:14	8° ¥ 20'07			11672 Jan 29 22:09	0° ∀	
	11671 Feb 25 01:58	0°Υ 27°Ω2 40°	24012102		11672 Feb 19 02:19	0°Υ	25025140
evening max el	11671 Mar 18 10:31	27° Y 34′08	24°12'03	evening max el	11672 Feb 28 23:48	11° Υ 24'46	25°27'40
	11671 Mar 21 01:36	0°8		retrograde	11672 Mar 12 05:42	18° Y 29'17	
retrograde	11671 Mar 29 16:48	4°810'44		evening set	11672 Mar 18 02:58	16° ℃ 03'10	
asc. node	11671 Apr 02 07:46	3° 8 10'38		asc. node	11672 Mar 19 05:05	15° Υ 03'15 11° Υ 17'09	0.67656.444
evening set	11671 Apr 04 02:17	1° 8 54'49		min. Earth dist.	11672 Mar 22 11:20		0.67656 AU
: E 4 E 4	11671 Apr 06 00:18	30° ₹ Υ	0.60420.411	inferior conj	11672 Mar 23 19:36	9° Y 33'15 9° Y 39'10	1°25'15
min. Earth dist.	11671 Apr 08 17:50	26° Y 33'43 25° Y 25'26	0.68420 AU 2°07'02	minimum elong	11672 Mar 23 17:46	3° Υ 40'50	1°24'33
inferior conj minimum elong	11671 Apr 09 14:03 11671 Apr 09 11:53	25° Y 32'46		morning rise direct	11672 Mar 29 09:02 11672 Apr 01 20:06	2° Υ 32'04	
morning rise	11671 Apr 09 11:33 11671 Apr 14 21:34	19° Υ 24'22	2 00 08	morning max el	11672 Apr 01 20:00 11672 Apr 08 18:39	6° Υ 19'40	19°09'05
direct	11671 Apr 14 21:34 11671 Apr 18 20:33	17° Υ 55'15		desc. node	11672 Apr 08 18:39	23° Y 23'53	19 09 03
morning max el	11671 Apr 18 20:33	22° Υ 15'05	20°09'43	greatest brilliancy	11672 Apr 21 10:10	23° Y 35'11	-0.7m
morning max ci	11671 May 03 03:08	0° 8	20 09 43	greatest offinality	11672 Apr 26 00:47	0° 8	-0.7111
desc. node	11671 May 05 19:26	3° 8 37'50		morning set	11672 May 02 10:47	9° 8 52'17	
dese. Hode	11671 May 23 14:21	0° Ⅱ		morning sec	11672 May 15 09:19	0°П	
morning set	11671 May 24 08:03	1° I 108'07		max. Earth dist.	11672 May 15 23:15	0° П 54'39	1.45275 AU
max. Earth dist.	11671 Jun 03 07:50	16° Ⅱ 47'49	1.44115 AU	man. Darm dige.	110/2 11149 10 25:10	0 20.57	1.10270110
				superior conj	11672 May 18 22:02	5° Ⅱ 33'32	-2°12'40
superior conj	11671 Jun 09 02:20	26° Ⅱ 07'54	-2°07'59	minimum elong	11672 May 18 20:03	5° Ⅱ 25'42	
minimum elong	11671 Jun 09 07:00	26° Ⅱ 27'00	2°08'32	evening rise	11672 Jun 02 13:31	29° Ⅱ 10′07	
C	11671 Jun 11 10:41	0ം ഉ		C	11672 Jun 03 01:40	0° ©	
evening rise	11671 Jun 22 01:02	17° © 58'10		asc. node	11672 Jun 15 02:59	19° © 22'37	
asc. node	11671 Jun 29 05:59	0° Ω 17'46		evening max el	11672 Jun 21 24:00	28° © 13'36	18°21'46
	11671 Jun 29 01:43	$0^{\circ}\Omega$		•	11672 Jun 24 01:12	$0^{\circ}\Omega$	
evening max el	11671 Jul 09 10:23	14° Ω 42'21	18°05'13	retrograde	11672 Jun 28 09:39	1° Ω 39'06	
retrograde	11671 Jul 15 20:28	18° Ω 02'55		evening set	11672 Jul 01 10:40	0° Ω 48'04	
evening set	11671 Jul 18 13:20	17° Ω 26′05			11672 Jul 02 16:05	30° ℝ ∽	
inferior conj	11671 Jul 24 20:52	12° Ω 14'41	2°09'18	inferior conj	11672 Jul 07 06:54	25° © 19'52	2°48'18
minimum elong	11671 Jul 24 23:32	12° Ω 07'40	2°07'57	minimum elong	11672 Jul 07 09:03	25° © 13'35	2°47'11
min. Earth dist.	11671 Jul 27 17:56	9° Ω 14'28	0.62385 AU	min. Earth dist.	11672 Jul 09 14:30	22° © 38'10	0.64465 AU
morning rise	11671 Jul 31 07:36	6° Ω 06′13		morning rise	11672 Jul 13 06:09	19° © 01'06	
desc. node	11671 Aug 01 18:37	5° Ω 09'27		desc. node	11672 Jul 18 15:53	16° 5 26'37	
direct	11671 Aug 07 00:07	3° Ω 40′50		direct	11672 Jul 19 20:45	16° 5 21'37	
morning max el	11671 Aug 21 02:54	11° Ω 43'11	27°55'57	morning max el	11672 Aug 02 12:59	24° 5 21'40	27°26'53
	11671 Sep 04 13:48	0° m y			11672 Aug 07 14:59	0 $^{\circ}$ Ω	
	11671 Sep 21 22:16	0∘ ⊽			11672 Aug 27 23:43	0° ™	

11674 Jun 10 13:20

morning rise

16°**Ⅱ**09'34

11673 Jul 03 00:35

direct

29°**Ⅱ**42'19

evening set

inferior conj

26°849'33

20°**8**29'30 2°53'16

11676 Apr 28 14:25

11676 May 03 21:27

11675 May 25 20:38

11675 May 31 01:15

direct

30°R8

27°**8**47'04

	11/7/ 1/4 02 10 /2	200 🗸 25121	2052125		11/77 4 21 22 10	200500	
minimum elong	11676 May 03 19:43	20° 8 35'31			11677 Apr 21 22:19	30°₹ Υ	
min. Earth dist.	11676 May 03 20:39	20° 8 32'15	0.68728 AU	morning rise	11677 Apr 23 11:51	28° Y 32'00	
morning rise	11676 May 09 00:51	14° 8 17'15		direct	11677 Apr 27 18:08	26° Y ′50′24	
direct	11676 May 13 20:12	12° 8 14'31			11677 May 04 08:08	0° 8	
morning max el	11676 May 23 07:49	17° 8 48'46	22°13'06	morning max el	11677 May 06 00:57	1° 8 34'51	20°51'13
desc. node	11676 May 26 04:05	20° 8 52'36		desc. node	11677 May 13 00:54	9° 8 48'33	
	11676 Jun 02 10:06	Π °0			11677 May 27 04:54	0°Щ	
	11676 Jun 22 17:01	0 \circ		morning set	11677 Jun 05 01:59	13° Ⅱ 34'23	
morning set	11676 Jun 25 13:24	4° 5 33'41		max. Earth dist.	11677 Jun 13 01:38	26° Ⅱ 15'26	1.43165 AU
max. Earth dist.	11676 Jun 30 20:18	13° © 16'00	1.41136 AU		11677 Jun 15 08:44	0 \circ	
superior conj	11676 Jul 08 15:04	26°542'32		superior conj	11677 Jun 19 23:10	7° © 38'58	
minimum elong	11676 Jul 08 21:17	27° © 10'13	1°30'18	minimum elong	11677 Jun 20 05:36	8° © 06'02	1°57'48
	11676 Jul 10 11:11	$0^{\circ}\Omega$		evening rise	11677 Jul 01 22:04	28° © 25'28	
evening rise	11676 Jul 19 00:44	15° Ω 47'17			11677 Jul 02 19:21	0 \circ Ω	
asc. node	11676 Jul 19 14:34	16° Ω 51'44		asc. node	11677 Jul 06 11:26	6° Ω 29'05	
	11676 Jul 26 21:06	0° т р		evening max el	11677 Jul 18 13:19	24° Ω 23'29	18°04'04
evening max el	11676 Aug 04 00:59	11° m)21'31	18°16'48	retrograde	11677 Jul 25 03:52	27° Ω 47'01	
retrograde	11676 Aug 11 08:05	15° m 02'44		evening set	11677 Jul 27 16:11	27° Ω 17'25	
evening set	11676 Aug 13 12:22	14° Mp 43'43		inferior conj	11677 Aug 03 08:01	22° Ω 16′50	1°37'04
inferior conj	11676 Aug 20 21:26	10° Mp 03'06	0°22'06	minimum elong	11677 Aug 03 10:30	22° Ω 10'46	1°35'45
minimum elong	11676 Aug 20 22:11	10° m 01'31	0°21'28	min. Earth dist.	11677 Aug 06 11:18	19° Ω 14'34	0.61097 AU
desc. node	11676 Aug 22 02:28	9° ™ 01'26		desc. node	11677 Aug 08 23:48	17° Ω 05'49	
min. Earth dist.	11676 Aug 24 05:39	7° M 14'56	0.58821 AU	morning rise	11677 Aug 10 02:08	16° Ω 18'48	
morning rise	11676 Aug 28 04:32	4° m 30'45		direct	11677 Aug 16 17:18	14° Ω 05'31	
direct	11676 Sep 03 11:20	2°Mp44'15		morning max el	11677 Aug 30 23:09	22° Ω 03'47	27°56'29
morning max el	11676 Sep 17 19:56	10° Mp $29'32$	27°27'01		11677 Sep 06 22:31	0° m)	
	11676 Oct 02 22:26	0∘ ⊽			11677 Sep 26 01:30	0∘ ত	
asc. node	11676 Oct 15 15:42	22° ≙ 48'07		asc. node	11677 Oct 02 12:25	12° ≏ 38′05	
morning set	11676 Oct 18 23:26	29° ≙ 39'45		morning set	11677 Oct 03 02:28	13° ≏ 50'29	
	11676 Oct 19 03:16	0° M		max. Earth dist.	11677 Oct 08 21:32	26° ≏ 14'38	1.31593 AU
superior conj	11676 Oct 25 23:15	14°M57'27	1°25'41	superior conj	11677 Oct 10 09:53	29° ჲ 35'01	1°10'39
minimum elong	11676 Oct 25 21:21	14° M 46'47	1°25'57	minimum elong	11677 Oct 10 07:38	29° ≏ 22'37	1°10'37
max. Earth dist.	11676 Oct 25 14:04	14°M06'12	1.31346 AU		11677 Oct 10 14:24	0° M	
evening rise	11676 Nov 01 17:01	29°M47'38		evening rise	11677 Oct 17 03:12	14°M22'36	
	11676 Nov 01 19:19	0° ∡ ¹			11677 Oct 24 20:08	0° ⊀	
desc. node	11676 Nov 17 23:33	29° ₹ ′53'34		desc. node	11677 Nov 04 20:47	17° ∡ 753'56	
	11676 Nov 18 01:14	0°ಕ		evening max el	11677 Nov 12 14:51	26° ₰ 754'03	25°08'07
evening max el	11676 Nov 30 22:24	16° පි 04'18	26°27'56		11677 Nov 16 07:05	0°ಕ	
retrograde	11676 Dec 14 21:05	23° る 10'48		retrograde	11677 Nov 26 11:00	3° る 50'37	
evening set	11676 Dec 21 10:34	21° る 25'24		evening set	11677 Dec 02 04:29	2° る 36'38	
min. Earth dist.	11676 Dec 25 12:07	18° る 49'31	0.58918 AU		11677 Dec 06 23:46	30°₽ ⋌	
inferior conj	11676 Dec 28 15:51	16° පි 25'47	-4°13'31	min. Earth dist.	11677 Dec 07 02:53	29° ₹ 55'01	0.56944 AU
minimum elong	11676 Dec 29 00:00	16° ප 10'15	4°10'21	inferior conj	11677 Dec 09 20:56	28° ₰ 06'06	-5°18'20
morning rise	11677 Jan 05 16:15	11° る 53'01		minimum elong	11677 Dec 10 04:08	27° ₰ 754'10	5°16'17
direct	11677 Jan 07 18:36	11° る 37'41		morning rise	11677 Dec 18 06:03	23° ₹ 55'18	
asc. node	11677 Jan 11 15:31	12° る 32'49		direct	11677 Dec 20 13:37	23° ₰ ³39'48	
morning max el	11677 Jan 15 18:40	15° පි 34'00	18°22'14	asc. node	11677 Dec 29 12:38	27° ∡ °50′53	
	11677 Jan 25 19:01	0° ≈		morning max el	11677 Dec 29 19:35	28° ₰ 07'23	19°11'23
morning set	11677 Jan 31 14:16	10° ≈ 48′30			11677 Dec 31 14:20	8°0	
				morning set	11678 Jan 15 14:52	25° る 12'56	
superior conj	11677 Feb 09 19:18	28° ≈ 10′03	0°32'18		11678 Jan 18 00:32	0° ≈	
minimum elong	11677 Feb 09 21:31	28° ≈ 20'14	0°32'25				
	11677 Feb 10 19:24	0° ∀		superior conj	11678 Jan 23 20:35	11° ≈ 29′25	1°00'03
desc. node	11677 Feb 13 23:23	5° ¥ 40′21		minimum elong	11678 Jan 23 23:33	11° ≈ 43'41	1°00'14
max. Earth dist.	11677 Feb 17 07:58	11° ∺ 30'44	1.40785 AU	max. Earth dist.	11678 Jan 30 14:29	24° ≈ 06′03	1.38570 AU
evening rise	11677 Feb 21 19:32	19° 米 01′59		desc. node	11678 Jan 31 20:07	26° ≈ 18'53	
	11677 Feb 28 16:16	0° Υ			11678 Feb 02 22:21	0° ∀	
	11677 Mar 21 22:50	0°B		evening rise	11678 Feb 03 09:02	0° ¥ 46′23	
evening max el	11677 Mar 28 03:13	6° 8 56'43	23°26'03		11678 Feb 21 23:11	0° Υ	
retrograde	11677 Apr 07 18:31	13° 8 13'10		evening max el	11678 Mar 10 16:58	20° Y 47'46	24°45'16
asc. node	11677 Apr 09 12:58	12° 8 58'29		retrograde	11678 Mar 22 09:51	27° Y °37′05	
evening set	11677 Apr 12 21:03	11° 8 04'45		asc. node	11678 Mar 27 10:18	25° Y ′45′00	
min. Earth dist.	11677 Apr 17 17:28	5° 8 22'57	0.68658 AU	evening set	11678 Mar 28 00:20	25° Y 16'41	
inferior conj	11677 Apr 18 06:36	4° 8 37'43	2°26'43	min. Earth dist.	11678 Apr 01 12:47	20° Y 10′25	0.68151 AU
minimum elong	11677 Apr 18 04:29	4° 8 45'03	2°25'49	inferior conj	11678 Apr 02 14:02	18° Ƴ 46'38	1°50'30

minimum elong	11678 Apr 02 11:57	18° Ƴ 53'35	1°49'40	inferior conj	11679 Mar 17 17:47	2° Y 52'08	1°04'32
morning rise	11678 Apr 07 23:45	12° Ƴ 48'53		minimum elong	11679 Mar 17 16:16	2° Y 56'52	1°04'01
direct	11678 Apr 11 17:37	11° Y 28'26			11679 Mar 20 03:07	30° Ŗ ₩	
morning max el	11678 Apr 19 01:36	15° Ƴ 32'46	19°41'57	morning rise	11679 Mar 23 10:31	27°) €04'01	
desc. node	11678 Apr 29 21:40	29° Ƴ 18'48		direct	11679 Mar 26 16:59	26° ₩ 03'04	
	11678 Apr 30 09:07	0°B		morning max el	11679 Apr 02 09:51	29°) 40′16	18°48'05
greatest brilliancy	11678 May 01 20:12	2° 8 07'32	-0.6m		11679 Apr 02 17:48	0°Υ	
morning set	11678 May 15 01:51	22° 8 05'42	0.0111	desc. node	11679 Apr 16 18:23	19° Ƴ 14'07	
morning set	11678 May 20 04:31	0°II		desc. Hode	11679 Apr 23 16:59	0°8	
E 41 E 4	•		1 44605 ATT	. ,	-	_	
max. Earth dist.	11678 May 26 14:15	10°Щ03′0/	1.44695 AU	morning set	11679 Apr 24 11:31	1° 8 12'11	1 15561 177
	11/50 1/ 01 05 10	150 70 405	2012110	max. Earth dist.	11679 May 09 08:03	24° O 22'55	1.45564 AU
superior conj	11678 May 31 07:13	17° Ⅲ 34'05					
minimum elong	11678 May 31 09:30	17° Ⅱ 43'17	2°13'00	superior conj	11679 May 10 19:40	26° 8 42'26	
	11678 Jun 07 21:49	0		minimum elong	11679 May 10 14:27	26° 8 21'57	2°08'56
evening rise	11678 Jun 13 23:44	10° © 10'55			11679 May 12 22:00	Π \circ 0	
asc. node	11678 Jun 23 08:24	25° 5 47'27		evening rise	11679 May 26 01:49	20° Ⅱ 56′29	
	11678 Jun 26 01:29	$0^{\circ}\Omega$			11679 May 31 16:51	0 \circ \odot	
evening max el	11678 Jul 02 03:22	7° Ω 46'09	18°10'07	greatest brilliancy	11679 May 31 10:17	29° Ⅲ 33'41	-0.9m
retrograde	11678 Jul 08 11:58	11°Ω06'52		asc. node	11679 Jun 10 05:26	14° 5 39'43	
evening set	11678 Jul 11 08:25	10°Ω24'02		evening max el	11679 Jun 15 16:01	21°9521'15	18°34'10
inferior conj	11678 Jul 17 10:38		2°28'16	retrograde	11679 Jun 22 04:07	24°952'54	10 2 . 10
minimum elong	11678 Jul 17 13:11	4°Ω58'10	2°27'00	evening set	11679 Jun 25 08:44	23°955'13	
_				•			205011.4
min. Earth dist.	11678 Jul 20 02:15	2°Ω10'58	0.63304 AU	inferior conj	11679 Jul 01 01:15	18°520'03	2°59'14
	11678 Jul 22 07:24	30° ₹ 5		minimum elong	11679 Jul 01 03:00		
morning rise	11678 Jul 23 16:16	28° © 51'39		min. Earth dist.	11679 Jul 03 02:28	15° © 51'15	0.65250 AU
desc. node	11678 Jul 26 21:06	26° © 59'50		morning rise	11679 Jul 06 20:19	11° © 59'08	
direct	11678 Jul 30 08:46	26° © 19'08		direct	11679 Jul 13 08:19	9° © 17'23	
	11678 Aug 08 09:01	$0^{\circ}\Omega$		desc. node	11679 Jul 13 18:20	9° © 17'59	
morning max el	11678 Aug 13 07:28	4° Ω 21'10	27°47'46	morning max el	11679 Jul 26 18:16	17° © 11'52	27°05'21
	11678 Sep 01 14:05	o∘ mp			11679 Aug 06 10:12	$0^{\circ}\Omega$	
morning set	11678 Sep 16 22:31	27° m 38'59			11679 Aug 25 11:21	0° m	
3	11678 Sep 18 02:24	0∘ <u>⊽</u>		morning set	11679 Aug 31 08:44	10° m) 57'01	
asc. node	11678 Sep 19 09:08	2° ユ 37'51		max. Earth dist.	11679 Sep 04 17:20	19° mp 35'14	1.33623 AU
max. Earth dist.	11678 Sep 21 23:51	2 _ 3731 8° _ 07'04	1.32350 AU	asc. node	11679 Sep 04 17:20 11679 Sep 06 05:50	22° m/42'13	1.55025 AC
max. Earm dist.	110/6 Sep 21 23.31	8 = 07 04	1.32330 AU	asc. node	110/9 Sep 00 03.30	22 11/42 13	
	11(70 0 24 17-20	14° ≏ 00'11	0°50'19		11(70 0 00 10.50	200 m 05140	0°24'56
superior conj	11678 Sep 24 17:29			superior conj	11679 Sep 08 19:50	28° Mp 05'49	
minimum elong	11678 Sep 24 15:26	13° ₽ 49'01	0°50'02	minimum elong	11679 Sep 08 18:36	27° m 59'17	0°24'34
evening rise	11678 Oct 01 14:36	28° ≏ 58'38			11679 Sep 09 17:26	0∘ ত	
	11678 Oct 02 02:04	0° M		evening rise	11679 Sep 16 01:13	13° ≏ 29'05	
	11678 Oct 18 22:05	0° ∡ ¹			11679 Sep 24 09:07	0° M	
desc. node	11678 Oct 22 18:06	4° ∡ ¹42'14		evening max el	11679 Oct 06 14:33	17° M ₊13'05	21°50'03
evening max el	11678 Oct 25 01:35	7° ₮ 06'25	23°29'41	desc. node	11679 Oct 09 15:28	19°M51'32	
retrograde	11678 Nov 07 12:01	13° ∡ ¹48′08		retrograde	11679 Oct 19 02:29	23°M26'02	
evening set	11678 Nov 11 22:26	13° ∡ 05′24		evening set	11679 Oct 22 02:32	23°MJ05'44	
min. Earth dist.	11678 Nov 18 11:32	9° ∡ ′59′26	0.55423 AU	inferior conj	11679 Oct 31 00:27	19° M 09'07	-5°28'07
inferior conj	11678 Nov 20 05:54	8° ∡ ¹57'13	-5°49'59	minimum elong	11679 Oct 30 17:13	19° M .19'14	5°26'30
minimum elong	11678 Nov 20 06:58	8° × 755'39		min. Earth dist.	11679 Oct 30 18:10	19°ML17'54	0.54630 AU
morning rise	11678 Nov 28 17:17	5° × 7'04'42	- - ,	morning rise	11679 Nov 08 09:09	15°M21'48	
direct	11678 Dec 01 13:29	4° × 744'59		direct	11679 Nov 11 23:16	14°ML53'38	
	11678 Dec 01 13.29 11678 Dec 12 07:35	9° √ 51'23	20°23'25		11679 Nov 24 05:51	20°M43'37	21056150
morning max el			20 23 23	morning max el			21 36 30
asc. node	11678 Dec 16 09:42	14° ∡ 26′50		*	11679 Dec 01 21:58	0° ⊼ ¹	
_	11678 Dec 25 22:44	0° ප		asc. node	11679 Dec 03 06:42	2° ₹ 03'44	
morning set	11678 Dec 30 21:30	9° る 51'55		morning set	11679 Dec 15 07:40	24° ∡ ³37'50	
		_			11679 Dec 17 20:30	0°ಕ	
superior conj	11679 Jan 07 10:57	25° る 24'36	1°20'03				
minimum elong	11679 Jan 07 13:32	25° る 37'38	1°20'28	superior conj	11679 Dec 22 10:35	9° ⋜ 44'26	1°32'41
	11679 Jan 09 17:57	0° ≈		minimum elong	11679 Dec 22 12:12	9° る 52'59	1°33'20
max. Earth dist.	11679 Jan 12 22:07	6° ≈ 10'54	1.36410 AU	max. Earth dist.	11679 Dec 26 11:01	18° る 02'58	1.34509 AU
evening rise	11679 Jan 16 17:50	13° ≈ 19'51		evening rise	11679 Dec 30 18:25	26° る 33'13	
desc. node	11679 Jan 18 16:56	16° ≈ 52'18			11680 Jan 01 14:02	0° ≈	
	11679 Jan 26 10:23	0° ∀		desc. node	11680 Jan 05 13:48	7°≈16'02	
	11679 Feb 16 21:48	0° Υ			11680 Jan 19 19:23	0° ∀	
evening max el	11679 Feb 21 06:29	4° Υ 37'54	25°56'26	evening max el	11680 Feb 03 19:59	18° ∺ 20′00	26°52'18
retrograde	11679 Mar 05 20:24	11° Υ 49'34	23 30 20	retrograde	11680 Feb 17 01:31	25°\(\frac{1}{4}\)3'14	20 32 10
•		9° Υ 20'18		-		23° X 43'14 23° X 09'58	
evening set	11679 Mar 11 22:39			evening set	11680 Feb 23 14:10		0.65004 411
asc. node	11679 Mar 14 07:39	7° ℃ 01'12	0 (7000 : **	min. Earth dist.	11680 Feb 27 14:15		0.65894 AU
min. Earth dist.	11679 Mar 16 04:24	4° Ƴ 49'12	0.67222 AU	asc. node	11680 Feb 29 05:00	17°) € 20'37	

	11600 F 1 20 15 20	1.601/ 40120	0000120		11(00 D 20 10 44	250 72445	
inferior conj	11680 Feb 29 15:39	16° ¥ 49'30	0°08'39	desc. node	11680 Dec 22 10:44	27° る 24'45	
minimum elong	11680 Feb 29 15:25	16° ¥ 50′13	0°08'48		11680 Dec 23 22:52	0° ≈	
transit middle	11680 Feb 29 15:25	16° ¥ 50′13	0°08'48		11681 Jan 14 14:47	0° ∀	
transit begin	11680 Feb 29 12:56	16° ¥ 57'25		evening max el	11681 Jan 16 08:46	1°) 44'17	27°25'39
transit end	11680 Feb 29 17:53	16°) 43′02		retrograde	11681 Jan 30 00:19	9°) €08'58	
morning rise	11680 Mar 06 17:56	11° 米 12'58		evening set	11681 Feb 05 20:35	6°) €38'23	
direct	11680 Mar 09 14:17	10° ¥ 28'32		min. Earth dist.	11681 Feb 09 16:17	3° 升 12'46	0.64218 AU
morning max el	11680 Mar 15 23:58	13° ¥ 51′22	18°10'45	inferior conj	11681 Feb 12 05:08	0°) 32′26	-0°56'57
	11680 Mar 27 17:29	0 ° Υ		minimum elong	11681 Feb 12 06:54	0°) €27'46	0°55'47
desc. node	11680 Apr 02 15:03	9° Ƴ 27'41			11681 Feb 12 17:27	30°R≈	
morning set	11680 Apr 03 23:23	11° Y 38'08		asc. node	11681 Feb 15 02:19	27° ≈ 40'12	
Ü	11680 Apr 15 11:18	0°B		morning rise	11681 Feb 18 19:12	25°≈09'49	
		• •		direct	11681 Feb 21 07:06	24°≈38'16	
superior conj	11680 Apr 19 02:59	5° 8 44'52	-1°44'53	morning max el	11681 Feb 27 17:13	27°≈57'53	17°50'24
minimum elong	11680 Apr 18 17:37	5° 8 08'05		morning max er	11681 Mar 01 14:13	0° ∀	17 30 24
max. Earth dist.	11680 Apr 21 03:48	8° 8 55'57	1.45689 AU	morning set	11681 Mar 16 15:38	23°) €26'44	
max. Earm dist.	-	0°Ⅱ	1.43009 AU	desc. node		29°) 53'47	
	11680 May 04 16:31			desc. node	11681 Mar 20 11:41		
evening rise	11680 May 05 04:55	0° Ⅱ 48'09	^ =		11681 Mar 20 13:10	$0^{\circ}\Upsilon$	
greatest brilliancy	11680 May 17 00:43	19° Ⅱ 01'46	-0.7m			20	
	11680 May 24 17:05	0ංම		superior conj	11681 Mar 29 22:50	15° Y 26'54	
asc. node	11680 May 27 02:32	2° 9 57'37		minimum elong	11681 Mar 29 15:42	14° Y 58'06	
evening max el	11680 May 29 00:54	5° © 03'31	19°15'23	max. Earth dist.	11681 Apr 03 22:55	23° Y 25'37	1.45081 AU
retrograde	11680 Jun 05 00:54	8° © 58'40			11681 Apr 08 03:29	9° 8	
evening set	11680 Jun 08 14:07	7° 5 45'14		evening rise	11681 Apr 14 17:41	10° 8 10'58	
inferior conj	11680 Jun 14 00:26	1° © 55'25	3°13'40		11681 Apr 27 21:28	$\Pi^{\circ}0$	
minimum elong	11680 Jun 14 01:05	1° 9 53'17	3°12'51	greatest brilliancy	11681 Apr 29 14:03	2° Ⅱ 28′12	-0.6m
	11680 Jun 15 11:57	30° Ŗ Ⅱ		evening max el	11681 May 12 04:29	18° ∏ 48'12	20°12'12
min. Earth dist.	11680 Jun 15 10:50	0° © 03'35	0.66811 AU	asc. node	11681 May 13 23:43	20° Ⅲ 28'57	
morning rise	11680 Jun 19 11:32	25° Ⅱ 33'04		retrograde	11681 May 19 23:32	23° Ⅱ 17'15	
direct	11680 Jun 25 14:52	22° I 52'15		evening set	11681 May 23 22:06	21° ∏ 47'42	
desc. node	11680 Jun 29 15:28	23° I I49'31		inferior conj	11681 May 29 05:14	15° ∏ 44'47	3°14'35
desc. node	11680 Jul 07 19:26	0°95		minimum elong	11681 May 29 04:48	15° Ⅱ 46'16	3°13'50
morning max el	11680 Jul 08 05:06	0°924'20	25057118	min. Earth dist.	11681 May 30 01:21	13° Д 4010	0.67927 AU
morning max er		0 3 24 20	23 37 16			9° П 24'48	0.07927 AU
. ,	11680 Jul 30 08:52			morning rise	11681 Jun 03 11:10		
morning set	11680 Aug 13 05:38	23° Ω 36'41		direct	11681 Jun 09 03:08	6° Ⅱ 53'57	
	11680 Aug 16 15:18	0° m)		desc. node	11681 Jun 16 12:30	10° Ⅱ 05'33	
max. Earth dist.	11680 Aug 17 00:18	0° Mp 43'12	1.35385 AU	morning max el	11681 Jun 20 14:56	13° ∏ 47'37	24°33'26
					11681 Jul 03 18:41	0ಂತಾ	
superior conj	11680 Aug 22 14:26	11°Mp46'15	-0°04'54		11681 Jul 23 04:59	$0^{\circ}\Omega$	
minimum elong	11680 Aug 22 14:44	11° m)47'46	0°05'08	morning set	11681 Jul 26 08:44	5° Ω 26'11	
behind sun begin	11680 Aug 22 08:55	11° m 18'19		max. Earth dist.	11681 Jul 29 23:05	11° Ω 50'43	1.37530 AU
behind sun end	11680 Aug 22 20:32	12° M)17'17					
asc. node	11680 Aug 23 02:34	12° m 47'57		superior conj	11681 Aug 05 22:02	24° Ω 53'29	-0°37'52
evening rise	11680 Aug 30 09:04	27° m 49'15		minimum elong	11681 Aug 06 00:34	25° Ω 05'43	0°37'53
	11680 Aug 31 10:31	0∘ 亚			11681 Aug 08 12:45	0° m y	
evening max el	11680 Sep 17 14:45	27° ♀ 50'30	20°23'44	asc. node	11681 Aug 09 23:19	2° m 51'09	
C	11680 Sep 20 01:13	0°M		evening rise	11681 Aug 14 11:44	11° m 52'32	
desc. node	11680 Sep 25 12:49	2°M53'01		C	11681 Aug 24 05:33	0∘ <u>⊽</u>	
retrograde	11680 Sep 28 14:26	3°ML17'57		evening max el	11681 Aug 31 05:03	9° Ω 15'15	19°17'38
evening set	11680 Sep 30 16:06	3°ML07'11		retrograde	11681 Sep 09 12:13	13° £ 53'13	-, -, -,
evening see	11680 Oct 08 07:16	30°R <u>Ω</u>		evening set	11681 Sep 11 08:27	13° Ω 43'05	
inferior conj	11680 Oct 09 17:22	29° ₽ 10'35	4°10'14	desc. node	11681 Sep 12 10:10	13° ⊆ 43'03	
minimum elong	11680 Oct 09 07:28	29° £ 25'04	4°06'57	inferior conj	11681 Sep 19 22:46	9° £ 34'00	2°20'51
•				·	•		
min. Earth dist.	11680 Oct 11 02:20	28° ♀ 22'21	0.54763 AU	minimum elong	11681 Sep 19 16:35	9° Ω 44'12	
morning rise	11680 Oct 17 22:11	25° Ω 07'35		min. Earth dist.	11681 Sep 22 13:55	7° Ω 50'11	0.55822 AU
direct	11680 Oct 22 08:17	24° £ 25'27		morning rise	11681 Sep 27 22:04	4° £ 58'51	
	11680 Nov 03 17:04	0°M₊		direct	11681 Oct 03 04:09	3° Ω 55'49	
morning max el	11680 Nov 04 18:33	0° M 57′50	23°43'34	morning max el	11681 Oct 17 05:31	11° ≏ 02'46	25°28'14
asc. node	11680 Nov 19 03:37	20°M27'13			11681 Oct 31 16:21	0°M₊	
	11680 Nov 24 06:04	0° ∡ ¹		asc. node	11681 Nov 06 00:28	9°M25'48	
morning set	11680 Nov 28 19:23	9° ∡ ¹24'50		morning set	11681 Nov 13 06:55	24°M08'12	
					11681 Nov 15 23:42	0° ∡	
superior conj	11680 Dec 05 16:27	24° ∡ °20′00	1°38'32				
minimum elong	11680 Dec 05 16:56	24° ∡ ¹22'34	1°39'17	superior conj	11681 Nov 20 02:11	9° ∡ 04'03	1°38'08
-	11680 Dec 08 07:46	ರ°0		minimum elong	11681 Nov 20 01:33	9° х 00′33	1°38'48
max. Earth dist.	11680 Dec 08 07:40	29° ₹ ¹59'32	1.33009 AU	max. Earth dist.	11681 Nov 21 11:32	12° ₹ 07'52	1.31977 AU
evening rise	11680 Dec 13 07:14	10° ට 17'37	-	evening rise	11681 Nov 27 05:11	24° ₹ 25'02	-
3		/		<i>3</i> - <i>r</i>			

	11681 Nov 29 23:08	გ∘0			11682 Nov 22 08:01	5°0	
desc. node	11681 Dec 09 07:44	17° る 11'45		desc. node	11682 Nov 26 04:49	6° る 27'29	
	11681 Dec 17 13:40	0° ≈		evening max el	11682 Dec 11 23:58	26° ප් 48'51	27°00'24
evening max el	11681 Dec 29 19:03	14° ≈ 38'36	27°29'54		11682 Dec 15 18:31	0° ≈	
retrograde	11682 Jan 12 15:39	21°≈57'34		retrograde	11682 Dec 25 22:11	3°≈59'22	
evening set	11682 Jan 19 15:07	19° ≈ 37'46	0.60065.433	evening set	11683 Jan 01 18:09	1°≈58'58	
min. Earth dist.	11682 Jan 23 08:45	16°≈38'59	0.62265 AU	· r d r d	11683 Jan 04 16:59	30°Rる	0.60140.411
inferior conj minimum elong	11682 Jan 26 07:12 11682 Jan 26 11:38	13°≈53'35 13°≈43'09	-2°10'55 2°08'33	min. Earth dist. inferior conj	11683 Jan 05 14:21 11683 Jan 08 18:19	29°る18'40 26°る42'32	0.60148 AU
asc. node	11682 Feb 01 23:34	8°≈57'55	2 08 33	minimum elong	11683 Jan 09 01:28	26°る27'47	
morning rise	11682 Feb 02 10:42	8° ≈ 47'48		morning rise	11683 Jan 16 11:36	20 3 27 4 7 21° る 56'57	3 20 14
direct	11682 Feb 04 16:21	8° ≈ 25'18		direct	11683 Jan 18 14:05	21° る 39'53	
morning max el	11682 Feb 11 10:33	11° ≈ 51'34	17°47'45	asc. node	11683 Jan 19 20:47	21° ප් 46'26	
	11682 Feb 23 16:30	0° ∀		morning max el	11683 Jan 26 00:30	25° る 22'13	18°03'54
morning set	11682 Feb 27 07:01	6° ¥ 21'39			11683 Jan 29 21:39	0° ≈	
desc. node	11682 Mar 07 08:19	20° ¥ 28′29		morning set	11683 Feb 10 15:06	20° ≈ 02'36	
					11683 Feb 16 00:10	0° ∀	
superior conj	11682 Mar 10 17:54	26° ¥ 15'31	-0°25'50				
minimum elong	11682 Mar 10 15:23	26° ∺ 04'58	0°25'19	superior conj	11683 Feb 20 13:12	8° ∺ 11'58	0°12'53
	11682 Mar 12 23:35	0° Υ		minimum elong	11683 Feb 20 14:15	8° ¥ 16'37	0°13'04
max. Earth dist.	11682 Mar 17 15:36	7° Y 38′25	1.43809 AU	behind sun begin	11683 Feb 20 09:43	7° ¥ 56'31	
evening rise	11682 Mar 25 07:38	19° ℃ 45'47		behind sun end	11683 Feb 20 18:46	8°) (36'41	
	11682 Apr 01 00:38	0° B		desc. node	11683 Feb 22 04:59	11°) €07'25	
	11682 Apr 22 17:15	0°II	21021141	max. Earth dist.	11683 Feb 28 04:08	21° 升 19'40 0° Ƴ	1.41995 AU
evening max el	11682 Apr 25 02:26	2° Ⅱ 33'58	21°21'41		11683 Mar 05 11:20	0°Υ02'54	
asc. node	11682 Apr 30 20:55	6°Ⅲ59'43 7°Ⅲ43'56		evening rise	11683 Mar 05 12:04 11683 Mar 25 13:20	0°Y'02'34 0° と	
retrograde evening set	11682 May 03 21:59 11682 May 08 06:50	7 Щ43 36 5°Щ58'22		evening max el	11683 Apr 07 19:39	16° 8 21'11	22°39'34
evening set	11682 May 13 08:43	30°R B		retrograde	11683 Apr 17 18:43	22° 8 14'09	22 39 34
inferior conj	11682 May 13 13:18	29° 8 44'06	3°04'01	asc. node	11683 Apr 17 18:11	22° 8 14'09	
minimum elong	11682 May 13 11:58	29° 8 48'44	3°03'14	evening set	11683 Apr 22 14:43	20° 8 13'26	
min. Earth dist.	11682 May 13 19:56	29° 8 20'59	0.68579 AU	inferior conj	11683 Apr 27 22:37	13° 8 50'08	2°43'11
morning rise	11682 May 18 16:52	23° 8 28'44		minimum elong	11683 Apr 27 20:40	13° 8 56'53	2°42'18
direct	11682 May 23 19:59	21° 8 14'29		min. Earth dist.	11683 Apr 27 16:28	14° 8 11'29	0.68762 AU
morning max el	11682 Jun 03 01:08	27° 8 18'14	23°03'41	morning rise	11683 May 03 02:31	7° 8 40'46	
desc. node	11682 Jun 03 09:29	27° 8 39'27		direct	11683 May 07 16:18	5° 8 46'57	
	11682 Jun 05 13:40	Π °0		morning max el	11683 May 16 14:58	10° 8 58'36	21°37'00
	11682 Jun 27 09:21	0 \circ 60		desc. node	11683 May 21 06:23	16° 8 10'24	
morning set	11682 Jul 07 13:03	16°912'48			11683 May 31 13:23	Π °0	
max. Earth dist.	11682 Jul 11 20:30	23° © 30'09	1.39846 AU	morning set	11683 Jun 17 15:30	25° Ⅱ 50'18	
	11682 Jul 15 13:42	0 $^{\circ}$ Ω			11683 Jun 20 05:55	0°€	
	11/02 1 1 10 14 42	70 0 1 715 7	1011140	max. Earth dist.	11683 Jun 23 22:43	6° © 02'13	1.42052 AU
superior conj	11682 Jul 19 14:42 11682 Jul 19 19:44	7° Ω 17'57 7° Ω 41'06			11(02 I-1 01 11.56	1000740125	1942/57
minimum elong asc. node	11682 Jul 19 19.44 11682 Jul 27 20:06	22°Ω47'52	1 1141	superior conj minimum elong	11683 Jul 01 11:56 11683 Jul 01 18:38	18° © 49'25 19° © 18'33	
evening rise	11682 Jul 29 06:11	25°Ω31'08		minimum clong	11683 Jul 07 19:17	0°Ω	1 423)
evening rise	11682 Jul 31 14:35	0° m)		evening rise	11683 Jul 12 12:36	8° Ω 35′28	
evening max el	11682 Aug 14 07:03	21° m/25'00	18°33'00	asc. node	11683 Jul 14 16:56	12° Ω 34'06	
retrograde	11682 Aug 22 04:27	25° m/22'52			11683 Jul 25 04:12	0° m)	
evening set	11682 Aug 24 04:49	25° m/08'10		evening max el	11683 Jul 28 16:45	4° m) 11'01	18°08'58
desc. node	11682 Aug 30 07:33	21° M 56'56		retrograde	11683 Aug 04 15:28	7° m/43'08	
inferior conj	11682 Sep 01 00:48	20° m 39'11	-0°32'06	evening set	11683 Aug 06 23:07	7° m 19'58	
minimum elong	11682 Aug 31 23:32	20° Mp $41'38$	0°31'48	inferior conj	11683 Aug 14 00:25	2°m/30'19	0°56'56
min. Earth dist.	11682 Sep 04 06:50	18° m 09'40	0.57599 AU	minimum elong	11683 Aug 14 02:10	2°M/26'23	0°55'54
morning rise	11682 Sep 08 14:48	15° m 26'37			11683 Aug 16 19:15	30°R Ω	
direct	11682 Sep 14 14:00	13° m 56'57		desc. node	11683 Aug 17 04:56	29° Ω 39'01	
morning max el	11682 Sep 28 21:33	21° m/29'40	26°53'00	min. Earth dist.	11683 Aug 17 07:29	29° Ω 33'32	0.59779 AU
1	11682 Oct 06 08:14	0° ⊽		morning rise	11683 Aug 21 02:03	26° Ω 45'39	
asc. node	11682 Oct 23 21:15	28° ≏ 49'54		direct	11683 Aug 27 13:04	24° Ω 47'33	
morning set	11682 Oct 24 11:23 11682 Oct 28 16:33	0°ጤ 8°ጤ42'40		morning max el	11683 Sep 07 23:28 11683 Sep 10 21:12	0°Ту 2°Ту39'00	27011126
morning set	11002 Oct 20 10.33	o 1164240		morning max er	11683 Sep 10 21:12 11683 Sep 30 20:17	ე∘ 亞	41 14 40
superior conj	11682 Nov 04 13:41	23°M49'41	1°31'51	asc. node	11683 Oct 10 18:01	0 = 18° £ 32'30	
minimum elong	11682 Nov 04 13:41 11682 Nov 04 12:09	23°M41'07	1°32'18	morning set	11683 Oct 10 18:01 11683 Oct 12 22:34	23° £ 03'55	
max. Earth dist.	11682 Nov 04 19:46	24°M23'34	1.31436 AU		11683 Oct 16 04:21	0° ™	
	11682 Nov 07 08:20	0° × 7		max. Earth dist.	11683 Oct 19 04:45		1.31392 AU
evening rise	11682 Nov 11 09:35	8° ∡ '47'35					
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superior conj	11685 Sep 17 16:24	7° ≙ 22'33	0°40'07	asc. node	11686 Aug 31 08:10	18° m) 35'43	
minimum elong	11685 Sep 17 14:36	7° £ 12'56	0°39'48				
evening rise	11685 Sep 24 16:27	22° ≏ 29'35		superior conj	11686 Sep 01 15:52	21° m) 19'27	0°12'47
C	11685 Sep 28 06:42	0° M .		minimum elong	11686 Sep 01 15:11	21° m 15'56	0°12'28
desc. node	11685 Oct 16 20:35	28°M42'22		behind sun begin	11686 Sep 01 11:29	20° m 56'45	
evening max el	11685 Oct 16 20:38	28°M42'29	22°46'27	behind sun end	11686 Sep 01 18:53	21° m/35'08	
_	11685 Oct 18 06:08	0° ∡ ¹			11686 Sep 05 19:01	0∘ ত	
retrograde	11685 Oct 29 23:40	5° ∡ 13'59		evening rise	11686 Sep 09 02:11	6° £ 57'18	
evening set	11685 Nov 02 18:39	4° ∡ ¹42'39			11686 Sep 21 10:37	0° M .	
min. Earth dist.	11685 Nov 10 05:05	1° ≯ 20'40	0.54975 AU	evening max el	11686 Sep 28 13:48	9° M 00'14	21°11'06
inferior conj	11685 Nov 11 08:58	0° ∡ ¹40'55	-5°48'07	desc. node	11686 Oct 03 17:56	13°ML01'47	
minimum elong	11685 Nov 11 06:17	0° ∡ ¹44'44	5°47'20	retrograde	11686 Oct 10 11:12	14°M54'34	
	11685 Nov 12 13:49	30°RM		evening set	11686 Oct 12 23:48	14°M39'42	
morning rise	11685 Nov 19 19:27	26° M $_52'24$		inferior conj	11686 Oct 22 01:03	10°M45'00	-5°00'59
direct	11685 Nov 22 22:47	26°M29'38		minimum elong	11686 Oct 21 15:42	10°M58'09	4°58'28
	11685 Dec 02 03:21	0°⊀		min. Earth dist.	11686 Oct 22 11:57	10°M29'40	0.54574 AU
morning max el	11685 Dec 04 09:11	1° ∡ ¹55′08	21°00'52	morning rise	11686 Oct 30 08:10	6° ™ 53'48	
asc. node	11685 Dec 10 12:09	9° ∡ 109'52		direct	11686 Nov 03 07:04	6°M20'12	
	11685 Dec 22 06:11	0° ට		morning max el	11686 Nov 16 02:24	12°M28'29	22°41'19
morning set	11685 Dec 23 22:38	3° る 28'19		asc. node	11686 Nov 27 09:06	27° M 08'47	
					11686 Nov 29 01:35	0° ∡ ¹	
superior conj	11685 Dec 31 06:59	18° පි 48'18	1°26'15	morning set	11686 Dec 08 09:42	18° ∡ 15'51	
minimum elong	11685 Dec 31 09:12	18° る 59'43	1°26'48		11686 Dec 13 20:59	0°ರ	
max. Earth dist.	11686 Jan 05 03:09	28° පි 33'10	1.35555 AU				
	11686 Jan 05 20:55	0° ≈		superior conj	11686 Dec 15 09:35		1°35'57
evening rise	11686 Jan 09 03:17	6° ≈ 13′27		minimum elong	11686 Dec 15 10:44	3° ට 22'03	1°36'40
desc. node	11686 Jan 12 19:13	12° ≈ 54'15		max. Earth dist.	11686 Dec 18 19:34	10° පි 27'20	1.33822 AU
	11686 Jan 23 02:02	0° ∀		evening rise	11686 Dec 23 09:31	19° る 41'32	
evening max el	11686 Feb 13 12:56	27°) (49′45	26°22'40		11686 Dec 28 20:55	0° ≈	
	11686 Feb 15 21:49	0 ° $\mathbf{\gamma}$		desc. node	11686 Dec 30 16:06	3° ≈ 12'34	
retrograde	11686 Feb 26 10:27	5° Y 07'44			11687 Jan 17 03:08	0° ∀	
evening set	11686 Mar 04 17:12	2° Y 36′23		evening max el	11687 Jan 27 02:29	11° ∺ 26′17	27°09'41
	11686 Mar 07 09:43	30° ₹		retrograde	11687 Feb 09 12:42	18° ¥ 50′15	
asc. node	11686 Mar 08 10:11	28° ¥ 50′09		evening set	11687 Feb 16 05:03	16° ∺ 17′29	
min. Earth dist.	11686 Mar 08 20:29	28° ℋ 19'38	0.66697 AU	min. Earth dist.	11687 Feb 20 03:13	12°) 34′04	0.65225 AU
inferior conj	11686 Mar 10 14:54	26°) 10'37	0°42'05	inferior conj	11687 Feb 22 09:31	10°) €02'35	
minimum elong	11686 Mar 10 13:51	26° ∺ 13'52	0°41'48	minimum elong	11687 Feb 22 10:02	10°) €01'08	0°17'29
morning rise	11686 Mar 16 11:22	20° ₩ 26'51		asc. node	11687 Feb 23 07:32	9° ∺ 01'37	
direct	11686 Mar 19 13:21	19°) 33′16	10020105	morning rise	11687 Feb 28 16:32	4°) € 31'27	
morning max el	11686 Mar 26 02:14	23° ₭ 03'08	18°30'07	direct	11687 Mar 03 09:11	3°) € 52'48	15050150
	11686 Mar 31 19:53	0° Υ		morning max el	11687 Mar 09 17:56	7°) 12'42	17°59'58
desc. node	11686 Apr 10 20:38	15° Υ 08'48			11687 Mar 25 09:20	0° Υ	
morning set	11686 Apr 15 17:18	22° Y 48'36		morning set	11687 Mar 27 17:34	3° Y 50′59	
	11686 Apr 20 06:46	0° 8		desc. node	11687 Mar 28 17:15	5° Y 28'12	
gunariar agni	11696 May 01 16:22	17° 8 52'23	2000/44	superior coni	11697 Apr. 11 02:02	27° Y 05'37	1020107
superior conj minimum elong	11686 May 01 16:32 11686 May 01 08:44	17 8 32 23		superior conj minimum elong	11687 Apr 11 03:03 11687 Apr 10 17:59	26° Y 29'48	1°29'24
max. Earth dist.	11686 May 01 16:44	_	1.45711 AU	minimum ciong	11687 Apr 10 17.39 11687 Apr 12 23:14	0° 8	1 29 24
max. Lattii dist.	11686 May 09 10:28	0°Ⅱ	1.43/11 AO	max. Earth dist.	11687 Apr 14 12:57	2° 8 28'09	1.45522 AU
evening rise	11686 May 17 09:59	12° ∏ 34'35		evening rise	11687 Apr 14 12:37 11687 Apr 27 05:19	22° 8 09'25	1.43322 AO
greatest brilliancy	11686 May 26 07:46	26° I I38'05	-0.8m	evening rise	11687 May 02 07:54	0°II	
greatest orimaney	11686 May 28 11:56	0°ම	0.0111	greatest brilliancy	11687 May 10 21:28		-0.7m
asc. node	11686 Jun 04 07:52	9° © 52'18		asc. node	11687 May 22 04:59	27° I 51'54	0.7111
evening max el	11686 Jun 08 07:24	14°531'43	18°49'43	evening max el	11687 May 22 14:09	28° I 15'20	19°37'49
retrograde	11686 Jun 14 23:27	18° © 11'31	10 15 15	evening man er	11687 May 24 11:52	0ಂತಿ	1, 3, .,
evening set	11686 Jun 18 07:44	17° 5 07'09		retrograde	11687 May 29 21:16	2° © 23'29	
inferior conj	11686 Jun 23 21:14	11°525'46	3°07'08	evening set	11687 Jun 02 14:28	1°502'59	
minimum elong	11686 Jun 23 22:31	11°521'42	3°06'13	Č	11687 Jun 03 20:38	30° Ŗ Ⅱ	
min. Earth dist.	11686 Jun 25 16:09	9° © 11'38	0.65972 AU	inferior conj	11687 Jun 07 23:04	25° I 07'19	3°15'33
morning rise	11686 Jun 29 12:36	5°903'57		minimum elong	11687 Jun 07 23:15	25° Ⅱ 06'43	3°14'47
direct	11686 Jul 05 21:30	2° © 21'15		min. Earth dist.	11687 Jun 09 03:13	23° Ⅲ 33'44	0.67342 AU
desc. node	11686 Jul 07 20:45	2°534'55		morning rise	11687 Jun 13 07:39	18° Ⅱ 45'52	
morning max el	11686 Jul 18 23:36	10° © 07'33	26°38'55	direct	11687 Jun 19 06:23	16° Ⅱ 08'35	
-	11686 Aug 03 16:06	$0^{\circ}\Omega$		desc. node	11687 Jun 24 17:51	17° Ⅱ 54'20	
	11686 Aug 21 19:50	0° m		morning max el	11687 Jul 01 09:58	23° Ⅱ 25'25	25°23'05
morning set	11686 Aug 23 20:15	3° Mp 46'25			11687 Jul 07 06:00	0ංම	
max. Earth dist.	11686 Aug 27 22:02	11° m 40'42	1.34321 AU		11687 Jul 28 00:41	$0^{\circ}\Omega$	

11688 Jul 18 04:12

27°931'01

morning max el

11689 May 26 07:15

20°**8**27'21 22°25'59

morning set

desc. node	11689 May 28 11:49	22° 8 46'53		direct	11690 Apr 30 12:43	29° Y ′20'32	
	11689 Jun 03 10:00	0°II			11690 May 03 09:12	0°8	
	11689 Jun 24 00:33	0 \circ \odot		morning max el	11690 May 08 23:23	4° 8 11'36	21°02'39
morning set	11689 Jun 28 21:38	7° 5 48'14		desc. node	11690 May 15 08:42	11° 8 36'44	
max. Earth dist.	11689 Jul 03 21:16	16° © 03'56	1.40808 AU		11690 May 28 10:34	Π °0	
				morning set	11690 Jun 08 13:30	16° Ⅲ 57'21	
superior conj	11689 Jul 11 16:53	29°5540'02		max. Earth dist.	11690 Jun 16 01:46	28° Ⅱ 56'23	1.42893 AU
minimum elong	11689 Jul 11 22:50	0° Ω 06'46	1°25'33		11690 Jun 16 17:23	0ං වෙ	
	11689 Jul 11 21:20	0°Ω 18°Ω30'54		:	11600 I 22 04-20	100645141	1054102
evening rise asc. node	11689 Jul 21 21:37 11689 Jul 21 22:25	$18^{\circ} 030'34'38$		superior conj minimum elong	11690 Jun 23 04:30 11690 Jun 23 11:07	10°545'41 11°513'49	
asc. nouc	11689 Jul 28 03:14	0°m)		minimum ciong	11690 Jul 04 04:27	0°Ω	1 3413
evening max el	11689 Aug 06 21:25	14° m) 08'10	18°20'25	evening rise	11690 Jul 04 21:27	1° Ω 16'00	
retrograde	11689 Aug 14 07:51	17° m) 53'07		asc. node	11690 Jul 08 19:16	8° Ω 14'18	
evening set	11689 Aug 16 11:04	17° m 35'21		evening max el	11690 Jul 21 09:12	27° Ω 06′12	18°04'46
inferior conj	11689 Aug 23 22:57	12° m 57'52	0°08'31	-	11690 Jul 25 11:34	0° m)	
minimum elong	11689 Aug 23 23:14	12° m 57'15	0°08'08	retrograde	11690 Jul 28 01:28	0° Mp31′26	
transit middle	11689 Aug 23 23:14	12° m 57'15	0°08'08	evening set	11690 Jul 30 12:37	0°m/03'31	
transit begin	11689 Aug 23 20:13	13° m 03'30			11690 Jul 30 16:18	30° R Ω	
transit end	11689 Aug 24 02:16	12° m 51'00		inferior conj	11690 Aug 06 06:46	25° Ω 05'40	1°27'17
desc. node	11689 Aug 24 10:03	12°Mp34'51		minimum elong	11690 Aug 06 09:07	25° Ω 00'03	1°26'01
min. Earth dist.	11689 Aug 27 07:03	10° m 13'49	0.58493 AU	min. Earth dist.	11690 Aug 09 11:17	22° Ω 04'12	0.60753 AU
morning rise	11689 Aug 31 07:54	7° mp 30'27		desc. node	11690 Aug 11 07:27	20° Ω 29'40	
direct	11689 Sep 06 13:01	5° Mp 48'11	27°19'21	morning rise	11690 Aug 13 02:51	19° Ω 10'55 17° Ω 01'25	
morning max el	11689 Sep 20 21:23 11689 Oct 04 00:28	13° ™ 30'33 0° ₽	27-19/21	direct morning max el	11690 Aug 19 17:10 11690 Sep 02 23:40	$24^{\circ}\Omega 57'56$	27054141
asc. node	11689 Oct 17 23:36	0 = 24° £ 31'54		morning max er	11690 Sep 02 23:40 11690 Sep 07 14:24	0°m)	27 3441
asc. node	11689 Oct 20 15:42	0°M			11690 Sep 27 10:36	0∘ ত س	
morning set	11689 Oct 21 16:53	2°M12'30		asc. node	11690 Oct 04 20:20	ა – 14° ჲ 20'08	
3				morning set	11690 Oct 05 20:44	16° ≏ 26'04	
superior conj	11689 Oct 28 15:54	17° M 27'14	1°27'30	max. Earth dist.	11690 Oct 11 18:37	29° ჲ 08'22	1.31523 AU
minimum elong	11689 Oct 28 14:04	17°M17'03	1°27'49		11690 Oct 12 03:59	0° M	
max. Earth dist.	11689 Oct 28 10:36	16°M57'39	1.31353 AU				
	11689 Nov 03 08:14	0° ∡ ¹		superior conj	11690 Oct 13 02:47	2°M06'07	1°13'17
evening rise	11689 Nov 04 10:04	2° ∡ 18'55		minimum elong	11690 Oct 13 00:34	1°M53'48	1°13'18
	11689 Nov 19 03:54	0°ಕ		evening rise	11690 Oct 19 19:55	16°M53'23	
desc. node	11689 Nov 20 07:15	1°る47'28			11690 Oct 26 05:16	0° ∡ 7	
evening max el	11689 Dec 04 00:23	19° ろ 04'36	26°37'25	desc. node	11690 Nov 07 04:28	19° ∡ 56'57	
retrograde	11689 Dec 17 23:08	26° ろ 12'06			11690 Nov 15 17:19	0°る	25921125
evening set min. Earth dist.	11689 Dec 24 14:32 11689 Dec 28 14:24	24°る22'43 21°る46'02	0.59234 AU	evening max el retrograde	11690 Nov 15 18:05 11690 Nov 29 14:41	0°る01'49 6°る59'42	25-21-35
inferior conj	11689 Dec 31 18:26	19° ろ 18'38		evening set	11690 Nov 29 14:41 11690 Dec 05 12:02	5° る 40'44	
minimum elong	11690 Jan 01 02:24	19° ठ 03'08	3°58'59	min. Earth dist.	11690 Dec 10 06:14	3°る401'18	0.57222 AU
morning rise	11690 Jan 08 17:05	14°る42'22	3 3037	inferior conj	11690 Dec 13 02:37	1° る 06'19	
direct	11690 Jan 10 19:16	14° る 26'43		minimum elong	11690 Dec 13 10:17	0° る 53'23	
asc. node	11690 Jan 13 23:19	15° පි 04'31			11690 Dec 14 18:35	30°₽ , ₹	
morning max el	11690 Jan 18 15:33	18° る 19'15	18°16'48	morning rise	11690 Dec 21 10:50	26° ₹ 52′20	
	11690 Jan 27 01:47	0° ≈		direct	11690 Dec 23 17:14	26° х ³37′03	
morning set	11690 Feb 03 09:16	13° ≈ 22'46		asc. node	11690 Dec 31 20:29	0° る 09'26	
	11690 Feb 12 06:10	0° ∀			11690 Dec 31 16:07	0°ಕ	
		001/17/20		morning max el	11691 Jan 01 18:07	0°る59'12	19°02'35
superior conj	11690 Feb 12 18:27			morning set	11691 Jan 18 08:42	27° る 44'16	
minimum elong	11690 Feb 12 20:25	1°) €04'53	0°27'31		11691 Jan 19 12:09	0° ≈	
desc. node max. Earth dist.	11690 Feb 16 07:14	7°) 15'29 14°) 15'44	1.41110 AU	superior coni	11601 Ion 26 17:24	14°≈08'50	0°56'19
evening rise	11690 Feb 20 08:18 11690 Feb 25 00:28	22° ¥ 03'05	1.41110 AU	superior conj minimum elong	11691 Jan 26 17:24 11691 Jan 26 20:20	14 ≈08 30 14°≈22'52	0°56'30
evening rise	11690 Mar 01 23:41	0° Υ		max. Earth dist.	11691 Feb 02 15:13	26°≈57'36	1.38906 AU
	11690 Mar 22 20:22	0°8		desc. node	11691 Feb 03 03:57	20 ≈ 57 30 27° ≈ 54'21	1.55700710
evening max el	11690 Mar 31 02:38	9° 8 34'18	23°13'57		11691 Feb 04 08:22	0°) €	
retrograde	11690 Apr 10 13:44	15° 8 44'39		evening rise	11691 Feb 06 10:49	3° ¥ 39'12	
asc. node	11690 Apr 11 20:42	15° 8 36'48		Č	11691 Feb 23 03:12	0° Υ	
evening set	11690 Apr 15 14:34	13° 8 38'15		evening max el	11691 Mar 13 16:31	23° Y °25'09	24°33'47
inferior conj	11690 Apr 20 23:39	7° 8 12'09	2°31'23		11691 Mar 23 15:34	9° 8	
minimum elong	11690 Apr 20 21:34	7° 8 19'22	2°30'28	retrograde	11691 Mar 25 05:42	0° 8 10'03	
min. Earth dist.	11690 Apr 20 12:21	7° 8 51'11	0.68704 AU		11691 Mar 26 18:29	30° ₹Ƴ	
morning rise	11690 Apr 26 04:28	1° 8 05'24		asc. node	11691 Mar 29 18:03	28° Y ′38′26	
	11690 Apr 27 20:18	30° ₹Ƴ		evening set	11691 Mar 30 18:28	27° Y 51'08	

min. Earth dist.	11691 Apr 04 07:58	22° Ƴ 39'45	0.68256 AU	min. Earth dist.	11692 Mar 18 00:15	7° Ƴ 20'10	0.67383 AU
inferior conj	11691 Apr 05 07:28	21° Υ 21'18	1°56'41	inferior conj	11692 Mar 19 11:52	5° Υ 27'30	1°12'11
minimum elong	11691 Apr 05 05:20	21° Υ '28'25	1°55'48	minimum elong	11692 Mar 19 10:14	5° Υ 32'41	1°11'35
morning rise	11691 Apr 10 16:21	15° Υ '22'26	1 33 40	minimum ciong	11692 Mar 24 14:27	30°R) €	1 11 55
direct	11691 Apr 14 12:02	13° Υ '58'56		morning rise	11692 Mar 25 03:24	29° ₩ 37'55	
morning max el	11691 Apr 21 22:55	18° Υ 08'19	19°51'21	direct	11692 Mar 28 11:26	28°) 34'19	
morning man vi	11691 May 01 11:44	0°8	1, 0121		11692 Apr 01 13:13	0°Υ	
desc. node	11691 May 02 05:30	1° 8 02'45		morning max el	11692 Apr 04 06:08	2° Υ 14'50	18°55'05
morning set	11691 May 18 14:04	25° 8 30'07		greatest brilliancy	11692 Apr 17 22:35	20° Υ 40'58	-0.8m
	11691 May 21 11:59	0°II		desc. node	11692 Apr 18 02:13	20° Υ 54'46	
max. Earth dist.	11691 May 29 13:45	12° ∏ 39'29	1.44508 AU	dese. Hode	11692 Apr 23 23:53	0°8	
man. Barar alou	110,1111111, 2, 13.10	12 237 27	1.1.000110	morning set	11692 Apr 26 20:51	4° 8 27'31	
superior conj	11691 Jun 03 16:07	20° I I50'01	-2°11'08	max. Earth dist.	11692 May 11 06:45	26° 8 54'59	1.45478 AU
minimum elong	11691 Jun 03 19:21	21° I I03'06					
viong	11691 Jun 09 06:22	0°9	2 11 10	superior conj	11692 May 13 06:48	0° I I03'31	-2°10'26
evening rise	11691 Jun 17 02:26	13°9510'41		minimum elong	11692 May 13 02:41	29° 8 47'20	
asc. node	11691 Jun 25 16:12	27°936'10		g	11692 May 13 05:54	0°II	2 1007
use. Houe	11691 Jun 27 04:05	0° Ω		evening rise	11692 May 28 08:10	24° I 105'32	
evening max el	11691 Jul 04 23:12	10°Ω26'26	18°07'59	evening rise	11692 May 31 23:36	0ಂತಿ	
retrograde	11691 Jul 11 08:06	13° Ω 46'48	10 07 57	asc. node	11692 Jun 11 13:12	16° © 33'09	
evening set	11691 Jul 14 03:17	13° Ω 06'05		evening max el	11692 Jun 17 12:12	24°900'10	18°29'25
inferior conj	11691 Jul 20 07:17	7° Ω 49'43	2°21'55	retrograde	11692 Jun 23 23:17	27°529'31	10 2) 23
minimum elong	11691 Jul 20 09:53	7°Ω42'38	2°20'35	evening set	11692 Jun 27 02:37	26°534'12	
min. Earth dist.	11691 Jul 23 00:50	4°Ω53'04	0.62988 AU	inferior conj	11692 Jul 02 20:21	21°901'23	2°55'39
morning rise	11691 Jul 26 14:40	1°Ω37'44	0.02700710	minimum elong	11692 Jul 02 22:15	20°955'42	
desc. node	11691 Jul 29 04:46	0°Ω03'26		min. Earth dist.	11692 Jul 04 23:49	18° 9 27'47	0.64985 AU
desc. node	11691 Jul 29 07:48	30°R.€		morning rise	11692 Jul 08 16:49	14°9541'00	0.04763 AC
direct	11691 Aug 02 07:17	29° 5 07'37		direct	11692 Jul 15 05:46	11°959'50	
direct	11691 Aug 06 12:31	0°Ω		desc. node	11692 Jul 15 02:01	11°959'55	
morning max el	11691 Aug 16 07:31	7° Ω 09'52	27°51'23	morning max el	11692 Jul 28 18:09	19°956'41	27°13'26
morning max ci	11691 Sep 02 18:49	0° m)	27 31 23	morning max cr	11692 Aug 06 08:35	0° Ω	27 13 20
morning set	11691 Sep 19 17:58	0° 요 17'58			11692 Aug 25 20:26	0° m)	
morning set	11691 Sep 19 14:24	0∘ ⊽		morning set	11692 Sep 02 05:50	13° m) 41'05	
asc. node	11691 Sep 21 17:02	ა _ 4° ჲ 18'31		max. Earth dist.	11692 Sep 02 05:30 11692 Sep 06 16:48	22° m) 34'46	1.33401 AU
max. Earth dist.	11691 Sep 24 21:56	11° ⊆ 03′29	1.32204 AU	asc. node	11692 Sep 07 13:43	24° m) 22'20	1.33401 AU
max. Latur dist.	11071 Sep 24 21.30	11 =032)	1.32204 AO	asc. node	11692 Sep 10 06:18	0° ت 0° ت	
superior conj	11691 Sep 27 10:56	16° ₽ 33'00	0°53'43		11072 Sep 10 00.16	٥ –	
minimum elong	11691 Sep 27 08:48	16° ⊆ 21'26	0°53'29	superior conj	11692 Sep 10 14:12	0° ჲ 41'49	0°29'04
minimum ciong	11691 Oct 03 14:40	0°ML	0 33 29	minimum elong	11692 Sep 10 14:12 11692 Sep 10 12:47	0° ⊆ 34'22	
evening rise	11691 Oct 04 07:12	1°ML29'07		evening rise	11692 Sep 17 18:03	16° ⊆ 00'30	0 20 44
evening rise	11691 Oct 19 18:13	0° √		evening rise	11692 Sep 24 16:30	0°M	
desc. node	11691 Oct 25 01:43	6° ∡ 757'15		evening max el	11692 Oct 08 16:59	20°M21'43	22°04'17
evening max el	11691 Oct 28 05:04	10° × 37 13	23°44'50	desc. node	11692 Oct 10 23:02	20°M23'09	22 04 17
retrograde	11691 Nov 10 17:38	10 × 1703	23 44 30	retrograde	11692 Oct 10 23:02 11692 Oct 21 09:27	26°M40'17	
evening set	11691 Nov 15 09:17	16° × 14'50		evening set	11692 Oct 24 14:02	26°M17'36	
min. Earth dist.	11691 Nov 21 15:23	13° 🖈 13'41	0.55608 AU	inferior conj	11692 Nov 02 10:14	22°M19'58	5°35'21
inferior conj	11691 Nov 23 14:17	12° × 13'41		minimum elong	11692 Nov 02 10:14 11692 Nov 02 04:03	22°M28'39	
minimum elong	11691 Nov 23 14:17		5°47'30	min. Earth dist.	11692 Nov 01 22:12	22°M36'52	0.54685 AU
morning rise	11691 Dec 02 01:47	8°×709'22	3 47 30	morning rise	11692 Nov 10 19:26	18°M32'58	0.54085 AU
direct	11691 Dec 04 19:36	7° × 750'38		direct	11692 Nov 14 06:35	18°M06'25	
morning max el	11691 Dec 04 19:30 11691 Dec 15 08:09	12° ∡ 50'41	20°11'16	morning max el	11692 Nov 26 08:21	23°M50'17	21041154
asc. node	11091 Dec 13 08.09	12 8 30 41	20 11 10	morning max er	11092 NOV 20 00.21	23 11630 17	21 41 34
asc. Houe	11601 Dec 19 17:24	160.72420				00.7	
	11691 Dec 18 17:34	16° ₹ 34'30		asa node	11692 Dec 01 18:21	0° ⊼¹ 4° √ 103'11	
morning sat	11691 Dec 27 07:26	ნ°0		asc. node	11692 Dec 01 18:21 11692 Dec 04 14:34	4° ≯ 03'11	
morning set				asc. node morning set	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19	4° х ³03'11 27° х ³06'38	
-	11691 Dec 27 07:26 11692 Jan 02 14:33	0° 궁 12° 궁 21'18	1017120		11692 Dec 01 18:21 11692 Dec 04 14:34	4° ≯ 03'11	
superior conj	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02	0°る 12°る21'18 27°る59'19	1°17'28	morning set	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15	4° メ 03'11 27° メ 06'38 0°る	1°31'12
-	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43	0°る 12°る21'18 27°る59'19 28°る12'47	1°17'28 1°17'53	morning set	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28	4° メ 03'11 27° メ 06'38 0°る 12°る16'19	1°31'12
superior conj minimum elong	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09	0°පි 12°පි21'18 27°පි59'19 28°පි12'47 0°≋	1°17'53	morning set superior conj minimum elong	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40	1°31'50
superior conj minimum elong max. Earth dist.	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14	0°ප 12°ප21'18 27°ප59'19 28°ප12'47 0°≈ 9°≈05'18		superior conj minimum elong max. Earth dist.	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34	
superior conj minimum elong max. Earth dist. evening rise	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53	0° ප් 12° ප්21'18 27° ප්59'19 28° ප්12'47 0° ≈ 9° ≈05'18 16° ≈05'34	1°17'53	morning set superior conj minimum elong	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34 29° 云 13'56	1°31'50
superior conj minimum elong max. Earth dist.	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53 11692 Jan 21 00:41	0°궁 12°♂521'18 27°♂59'19 28°♂12'47 0°≈ 9°≈05'18 16°≈05'34 18°≈28'34	1°17'53	superior conj minimum elong max. Earth dist. evening rise	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20 11693 Jan 02 01:01	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34 29° 云 13'56 0° ※	1°31'50
superior conj minimum elong max. Earth dist. evening rise	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53 11692 Jan 21 00:41 11692 Jan 27 18:16	0°පි 12°පි21'18 27°පි59'19 28°පි12'47 0°≈ 9°≈05'18 16°≈05'34 18°≈28'34 0°)€	1°17'53	superior conj minimum elong max. Earth dist.	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20 11693 Jan 02 01:01 11693 Jan 06 21:30	4°×03'11 27°×06'38 0°で 12°で16'19 12°で25'40 20°で57'34 29°で13'56 0°≈ 8°≈54'08	1°31'50
superior conj minimum elong max. Earth dist. evening rise desc. node	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53 11692 Jan 21 00:41 11692 Jan 27 18:16 11692 Feb 17 15:46	0°♂ 12°♂521'18 27°♂59'19 28°♂12'47 0°≈ 9°≈05'18 16°≈05'34 18°≈28'34 0°ℋ 0°Ƴ	1°17'53 1.36717 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20 11693 Jan 02 01:01 11693 Jan 06 21:30 11693 Jan 19 22:26	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34 29° 云 13'56 0° ≈ 8° ≈ 54'08 0° 光	1°31'50 1.34763 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53 11692 Jan 21 00:41 11692 Jan 27 18:16 11692 Feb 17 15:46 11692 Feb 24 05:52	0°♂ 12°♂ 21'18 27°♂ 59'19 28°♂ 12'47 0°≈ 9°≈ 05'18 16°≈ 05'34 18°≈ 28'34 0° 升 0°	1°17'53	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20 11693 Jan 02 01:01 11693 Jan 06 21:30 11693 Jan 19 22:26 11693 Feb 05 19:22	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34 29° 云 13'56 0° ≈ 8° ≈ 54'08 0° 升 20° 升 59'27	1°31'50
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53 11692 Jan 21 00:41 11692 Jan 27 18:16 11692 Feb 17 15:46 11692 Feb 24 05:52 11692 Mar 07 17:04	0°♂ 12°♂ 21'18 27°♂ 59'19 28°♂ 12'47 0°≈ 9°≈ 05'18 16°≈ 05'34 18°≈ 28'34 0° भ 0° भ 7° भ 15'14 14° भ 24'43	1°17'53 1.36717 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20 11693 Jan 02 01:01 11693 Jan 06 21:30 11693 Jan 19 22:26 11693 Feb 05 19:22 11693 Feb 18 23:09	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34 29° 云 13'56 0° ※ 8° ※ 54'08 0° 光 20° 光 59'27 28° 光 21'56	1°31'50 1.34763 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	11691 Dec 27 07:26 11692 Jan 02 14:33 11692 Jan 10 06:02 11692 Jan 10 08:43 11692 Jan 11 06:09 11692 Jan 15 22:14 11692 Jan 19 16:53 11692 Jan 21 00:41 11692 Jan 27 18:16 11692 Feb 17 15:46 11692 Feb 24 05:52	0°♂ 12°♂ 21'18 27°♂ 59'19 28°♂ 12'47 0°≈ 9°≈ 05'18 16°≈ 05'34 18°≈ 28'34 0° 升 0°	1°17'53 1.36717 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11692 Dec 01 18:21 11692 Dec 04 14:34 11692 Dec 17 00:19 11692 Dec 18 09:15 11692 Dec 24 04:28 11692 Dec 24 06:16 11692 Dec 28 09:59 11693 Jan 01 15:20 11693 Jan 02 01:01 11693 Jan 06 21:30 11693 Jan 19 22:26 11693 Feb 05 19:22	4° 🗷 03'11 27° 🗷 06'38 0° 云 12° 云 16'19 12° 云 25'40 20° 云 57'34 29° 云 13'56 0° ≈ 8° ≈ 54'08 0° 升 20° 升 59'27	1°31'50 1.34763 AU

aga mada	11693 Mar 02 12:45	20° ¥ 31'50			11694 Jan 15 02:08	0°) €	
asc. node			0017140				27022127
inferior conj	11693 Mar 03 10:46	19° ¥ 26'46	0°17'48	evening max el	11694 Jan 19 08:26	4°) €27'22	21°22'21
minimum elong	11693 Mar 03 10:17	19° ¥ 28′12	0°17'49	retrograde	11694 Feb 01 22:52	11° 米 52′09	
morning rise	11693 Mar 09 11:28	13° ¥ 48′17		evening set	11694 Feb 08 18:11	9° ∺ 20'53	
direct	11693 Mar 12 09:12	13° ∺ 01'39		min. Earth dist.	11694 Feb 12 14:30	5°) 50′40	0.64487 AU
morning max el	11693 Mar 18 19:31	16° ∺ 26′02	18°15'12	inferior conj	11694 Feb 15 01:39	3° 升 12′19	-0°46'25
	11693 Mar 28 22:44	0 ° Υ		minimum elong	11694 Feb 15 03:04	3° ₩ 08'31	0°45'24
desc. node	11693 Apr 04 22:51	11° Ƴ 05'58		asc. node	11694 Feb 17 10:05	0°) (47'11	
morning set	11693 Apr 07 04:21	14° Ƴ 40′25			11694 Feb 18 06:37	30°R≈	
•	11693 Apr 16 19:19	0°B		morning rise	11694 Feb 21 13:49	27° ≈ 47'17	
		• •		direct	11694 Feb 24 02:53	27°≈14'01	
superior conj	11693 Apr 22 13:42	9° 8 03'46	-1°/10'3/	uncet	11694 Mar 01 22:14	0°) €	
1 3	•	8° 8 27'46		marning may al	11694 Mar 02 12:26	0° X 33'28	17°52'19
minimum elong	11693 Apr 22 04:30	_		morning max el			17-32-19
max. Earth dist.	11693 Apr 24 02:06	11° 8 26'06	1.45720 AU	morning set	11694 Mar 19 16:38	26°) 17'37	
	11693 May 05 23:48	Π $^{\circ}0$			11694 Mar 21 21:48	0° Υ	
evening rise	11693 May 08 14:16	4° Ⅱ 03'38		desc. node	11694 Mar 22 19:28	1° Ƴ 30′21	
greatest brilliancy	11693 May 19 17:13	21° Ⅱ 18'15	-0.8m				
	11693 May 25 15:24	0 \circ \odot		superior conj	11694 Apr 02 06:43	18° Ƴ 37'14	-1°13'38
asc. node	11693 May 29 10:17	4° © 56'55		minimum elong	11694 Apr 01 22:57	18° Ƴ 06′08	1°12'50
evening max el	11693 May 31 21:46	7° © 41'43	19°08'12	max. Earth dist.	11694 Apr 06 21:32	25° Y 57′24	1.45223 AU
retrograde	11693 Jun 07 19:30	11°932'31			11694 Apr 09 11:20	0°8	
evening set	11693 Jun 11 07:23	10°521'32		evening rise	11694 Apr 18 04:14	13° 8 28'11	
-			2012120	evening rise	11694 Apr 29 02:10	0° I	
inferior conj	11693 Jun 16 18:26	4°933'56	3°12'20		1		0.6
minimum elong	11693 Jun 16 19:16	4° © 31'17	3°11'31	greatest brilliancy	11694 May 03 04:22	6° Ⅱ 01'32	-0.6m
min. Earth dist.	11693 Jun 18 07:05	2° © 35'58	0.66610 AU	evening max el	11694 May 15 02:13	21° Ⅱ 26′15	20°02'54
	11693 Jun 20 11:05	30° Ŗ Ⅱ		asc. node	11694 May 16 07:27	22° Ⅱ 36′06	
morning rise	11693 Jun 22 06:33	28° Ⅱ 11'32		retrograde	11694 May 22 17:57	25° ∏ 49'27	
direct	11693 Jun 28 11:27	25° Ⅲ 29'49		evening set	11694 May 26 15:07	24° Ⅲ 22'14	
desc. node	11693 Jul 01 23:11	26° Ⅱ 12'53		inferior conj	11694 May 31 22:33	18° Ⅲ 21'15	3°15'10
	11693 Jul 07 21:13	0°ഇ		minimum elong	11694 May 31 22:17	18° Ⅲ 22'11	3°14'27
morning max el	11693 Jul 11 04:59	3°506'17	26°08'35	min. Earth dist.	11694 Jun 01 20:45	17° I 106'06	0.67793 AU
morning max or	11693 Jul 31 14:37	0°Ω	20 00 33	morning rise	11694 Jun 06 05:07	12° I I00'53	0.07775710
marning got		26° Ω 27'08		•		9° Ⅱ 28'04	
morning set	11693 Aug 16 04:58			direct	11694 Jun 11 22:55		
	11693 Aug 18 02:21	0° m)		desc. node	11694 Jun 18 20:16	12° Ⅱ 14'54	
max. Earth dist.	11693 Aug 20 01:09	3° m)44'17	1.35096 AU	morning max el	11694 Jun 23 14:52	16° Ⅱ 28′00	24°46'32
					11694 Jul 04 19:53	0 \circ \odot	
superior conj	11693 Aug 25 10:08	14° m 26'37	-0°00'07		11694 Jul 24 13:37	0 $^{\circ}\Omega$	
minimum elong	11693 Aug 25 10:09	14° m) 26'45	0°00'24	morning set	11694 Jul 29 11:02	8° Ω 25′02	
behind sun begin	11693 Aug 25 04:09	13° m 56'09		max. Earth dist.	11694 Aug 02 00:56	14° Ω 50'42	1.37194 AU
behind sun end	11693 Aug 25 16:09	14° m 57'25			•		
asc. node	11693 Aug 25 10:24	14° m/28'02		superior conj	11694 Aug 08 19:39	27° Ω 39'49	-0°32'43
use. noue	11693 Sep 01 22:05	0° ⊽		minimum elong	11694 Aug 08 21:48	27°Ω50'20	
evening rise	11693 Sep 01 22:03	0° ഫ 22'34		minimum ciong	11694 Aug 10 00:16	0° m	0 32 47
evening rise	11693 Sep	0°M		aca mada	_		
			20025122	asc. node	11694 Aug 12 07:08	4° Mp 32'02	
evening max el	11693 Sep 20 15:16		20°35'22	evening rise	11694 Aug 17 06:05	14° m 29'16	
desc. node	11693 Sep 27 20:25	5° M .45'51			11694 Aug 25 09:32	0∘ ⊽	
retrograde	11693 Oct 01 20:48	6°M27′54		evening max el	11694 Sep 03 03:36	12° ≏ 11'29	19°26'07
evening set	11693 Oct 04 00:40	6°M16'25		retrograde	11694 Sep 12 16:27	16° ≏ 56′25	
inferior conj	11693 Oct 13 02:27	2°M20'53	-4°24'48	evening set	11694 Sep 14 12:47	16° ≏ 46′30	
minimum elong	11693 Oct 12 16:26	2°M35'20	4°21'39	desc. node	11694 Sep 14 17:49	16° ≏ 44'10	
min. Earth dist.	11693 Oct 14 06:01	1° M 41'04	0.54682 AU	inferior conj	11694 Sep 23 05:23	12° ≏ 39'45	-2°38'02
	11693 Oct 17 07:55	30° Ŗ Ω		minimum elong	11694 Sep 22 22:26	12° ≏ 50'58	2°35'20
morning rise	11693 Oct 21 07:51	28° £ 21'29		min. Earth dist.	11694 Sep 25 16:52		0.55615 AU
direct	11693 Oct 25 15:07	27° Ω 41'40		morning rise	11694 Oct 01 05:44	8° £ 10'15	0.55015710
uncci				_			
	11693 Nov 02 11:50	0°M	22025126	direct	11694 Oct 06 09:01	7° £ 10'47	25012120
morning max el	11693 Nov 07 21:55	4° M ₊08'17	23°27'26	morning max el	11694 Oct 20 08:38	14° £ 12'37	25°13'29
asc. node	11693 Nov 21 11:29	22°M20'26			11694 Nov 01 19:19	0°M	
	11693 Nov 25 16:01	0° ∡ 7		asc. node	11694 Nov 08 08:20	11°M14'26	
morning set	11693 Dec 01 11:54	11° ∡ 753′38		morning set	11694 Nov 15 23:35	26°M37'53	
					11694 Nov 17 13:00	0° ∡ ¹	
superior conj	11693 Dec 08 09:34	26° ∡ ¹49'49	1°38'04				
minimum elong	11693 Dec 08 10:13	26° ₹ 53'19	1°38'48	superior conj	11694 Nov 22 18:52	11° ∡ ³32'54	1°38'35
	11693 Dec 09 20:58	0°ਰ		minimum elong	11694 Nov 22 18:24	11° ∡ ³30'17	1°39'16
max. Earth dist.	11693 Dec 11 05:28	2° る 52'47	1.33201 AU	max. Earth dist.	11694 Nov 24 08:32	14° × ⁷ 59'46	1.32104 AU
		2 03247 12° る 54'13	1.55201 AU			26° × 58'38	1.52107 AU
evening rise	11693 Dec 16 02:32	12°65413 29° る 05'20		evening rise	11694 Nov 29 23:20	26°×'38'38 0°る	
desc. node							
	11693 Dec 24 18:23				11694 Dec 01 10:52		
	11693 Dec 24 18:23 11693 Dec 25 06:58	0°≈		desc. node	11694 Dec 01 10:52 11694 Dec 11 15:24	18°る56'00	

	11694 Dec 18 14:55	0° ≈		evening max el	11695 Dec 15 01:10	29° る 43'49	27°06'55
evening max el	11695 Jan 01 19:19	17° ≈ 26'44	27°31'17		11695 Dec 15 08:04	0° ≈ ≈	
retrograde	11695 Jan 15 15:14	24° ≈ 46′25		retrograde	11695 Dec 28 23:10	6° ≈ 55'44	
evening set	11695 Jan 22 14:39	22° ≈ 24'32		evening set	11696 Jan 04 20:16	4° ≈ 51'42	
min. Earth dist.	11695 Jan 26 08:25	19° ≈ 22'13	0.62572 AU	min. Earth dist.	11696 Jan 08 15:34	2°≈09'32	0.60466 AU
inferior conj	11695 Jan 29 05:37	16°≈36'49			11696 Jan 11 05:29	30°Rる	2015122
minimum elong	11695 Jan 29 09:37		1°57'07	inferior conj	11696 Jan 11 19:12	29° る 30'57	
asc. node	11695 Feb 04 07:22 11695 Feb 05 07:03	11°≈52'41 11°≈28'18		minimum elong morning rise	11696 Jan 12 01:59 11696 Jan 19 10:30	29°る16'40 24°る42'20	3-14-27
morning rise direct	11695 Feb 07 13:32	11 ≈28 18 11°≈04'36		direct	11696 Jan 21 13:13	24 042 20 24° る 24'41	
morning max el	11695 Feb 14 05:56	14°≈29'07	17°47'01	asc. node	11696 Jan 22 04:37	24° る 26'21	
	11695 Feb 25 00:19	0°) €		morning max el	11696 Jan 28 20:40	28° る 03'54	18°00'19
morning set	11695 Mar 02 04:58	9° ∺ 03'42		, and the second	11696 Jan 30 15:32	0° ≈	
desc. node	11695 Mar 09 16:06	22°) €03'42		morning set	11696 Feb 13 10:57	22° ≈ 38'47	
					11696 Feb 17 10:44	0°)	
superior conj	11695 Mar 13 22:03	29° ∺ 15′03					
minimum elong	11695 Mar 13 18:51	29°) €01'44	0°31'30	superior conj	11696 Feb 23 13:59	11° 米 02′15	0°07'23
	11695 Mar 14 08:49	0° Υ		minimum elong	11696 Feb 23 14:37	11°) €05'01	0°07'36
max. Earth dist.	11695 Mar 20 14:57	10° Y 14′25	1.44037 AU	behind sun begin	11696 Feb 23 07:34	10°) ₹33'56	
evening rise	11695 Mar 28 17:03	22° Y 58'47		behind sun end	11696 Feb 23 21:40	11°\(\dagger)36'02 12°\(\dagger)42'13	
	11695 Apr 02 07:11	0°Ⅱ 0°8		desc. node max. Earth dist.	11696 Feb 24 12:46 11696 Mar 02 04:13	12° X 42′13 24° X 01′20	1.42286 AU
evening max el	11695 Apr 23 10:52 11695 Apr 28 01:00	0°Щ 5° Ц 11'53	21°10'42	max. Earth dist.	11696 Mar 02 04:13	24° π 01′20 0° Υ	1.42280 AU
asc. node	11695 May 03 04:41	9° Ⅱ 17'13	21 10 42	evening rise	11696 Mar 07 18:46	3° Υ '08'20	
retrograde	11695 May 06 16:34	10° Ⅱ 15'25		evening rise	11696 Mar 25 16:13	0°8	
evening set	11695 May 10 23:53	8° Ⅲ 32'05		evening max el	11696 Apr 09 18:46	18° 8 58'42	22°27'37
inferior conj	11695 May 16 06:17	2° Ⅱ 19'18	3°06'18	asc. node	11696 Apr 19 01:57	24° 8 44'31	
minimum elong	11695 May 16 05:05	2° Ⅱ 23'30	3°05'31	retrograde	11696 Apr 19 13:44	24° 8 45'40	
min. Earth dist.	11695 May 16 14:51	1° Ⅱ 49'34	0.68511 AU	evening set	11696 Apr 24 08:01	22° 8 47'04	
	11695 May 17 22:54	30° ₹ 8		inferior conj	11696 Apr 29 15:34	16° 8 24'48	2°47'01
morning rise	11695 May 21 10:04	26° 8 03'14		minimum elong	11696 Apr 29 13:41	16° 8 31'18	2°46'08
direct	11695 May 26 15:06	23° 8 46'20		min. Earth dist.	11696 Apr 29 11:16	16° 8 39'46	0.68761 AU
desc. node	11695 Jun 05 17:16	29° 8 38'36		morning rise	11696 May 04 19:15	10° 8 14'24	
morning max el	11695 Jun 06 00:56	29° 8 57'45	23°17'06	direct	11696 May 09 10:57	8° 8 17'31	21040120
	11695 Jun 06 01:49 11695 Jun 28 15:28	0° ©		morning max el desc. node	11696 May 18 14:07	13° 8 36'57	21°49'28
morning set	11695 Jul 10 19:03	0 ৩ 19°©21'40		desc. node	11696 May 22 14:11 11696 May 31 16:36	0°Ⅱ	
max. Earth dist.	11695 Jul 14 22:24	26°\$24'46	1.39501 AU	morning set	11696 Jun 20 01:24	29° Ⅱ 09'33	
max. Earth dist.	11695 Jul 16 23:37	0°Ω	1.57501710	morning sec	11696 Jun 20 14:01	0°95	
				max. Earth dist.	11696 Jun 25 23:36	8°5548'08	1.41742 AU
superior conj	11695 Jul 22 14:49	10° Ω 11'10	-1°06'43				
minimum elong	11695 Jul 22 19:30	10° £ 32′50	1°06'37	superior conj	11696 Jul 03 15:14	21° © 50'55	-1°38'38
asc. node	11695 Jul 30 03:54	24° Ω 29'54		minimum elong	11696 Jul 03 21:49	22° © 19'46	1°38'36
evening rise	11695 Aug 01 02:00	28° Ω 12'11			11696 Jul 08 05:15	$0^{\circ}\Omega$	
	11695 Aug 02 00:25	0° m)		evening rise	11696 Jul 14 10:32	11° Ω 22'14	
evening max el	11695 Aug 17 04:04	24° m 14'44	18°38'19	asc. node	11696 Jul 16 00:45	14° Ω 17'54	
retrograde	11695 Aug 25 05:57	28° m 18'00			11696 Jul 25 02:50	0° m)	10011115
evening set desc. node	11695 Aug 27 05:20	28° Mp 04'16		evening max el	11696 Jul 30 12:51	6° M 55'34	18°11'15
inferior conj	11695 Sep 01 15:14 11695 Sep 04 04:11	25° m/28'31 23° m/38'15	0047127	retrograde evening set	11696 Aug 06 14:20 11696 Aug 08 20:44	10° Mp 30'38 10° Mp 09'02	
minimum elong	11695 Sep 04 04:11 11695 Sep 04 02:16	23° m) 41'53	0°47'00	inferior conj	11696 Aug 16 00:43	5° m) 22'29	0°45'00
min. Earth dist.	11695 Sep 07 08:52	21° m) 14'39	0.57300 AU	minimum elong	11696 Aug 16 02:09	5° m) 19'19	0°44'05
morning rise	11695 Sep 11 19:47	18° mp 31'02		desc. node	11696 Aug 18 12:37	3° m/ 10'15	
direct	11695 Sep 17 16:35	17° m 05'44		min. Earth dist.	11696 Aug 19 08:22	2° m/28'14	0.59441 AU
morning max el	11695 Oct 01 23:48	24° m/35'02	26°42'14		11696 Aug 22 16:18	30°R Ω	
	11695 Oct 06 23:25	0∘ ⊽		morning rise	11696 Aug 23 04:16	29° Ω 41′50	
	11695 Oct 25 21:58	0° M		direct	11696 Aug 29 13:54	27° Ω 47'44	
asc. node	11695 Oct 26 05:08	0°M35'04			11696 Sep 05 19:59	0° m	
morning set	11695 Oct 31 09:39	11°ML14'03		morning max el	11696 Sep 12 22:23	5° m 37'21	27°39'10
	11/0577	a.co	1000150		11696 Oct 01 02:17	0° ⊽	
superior conj	11695 Nov 07 06:16	26°M18'36	1°33'10	asc. node	11696 Oct 12 01:54	20° £ 14'58	
minimum elong	11695 Nov 07 04:51	26°M10'43	1°33'40	morning set	11696 Oct 14 16:20	25° ≏ 37'27	
max. Earth dist.	11695 Nov 07 16:24	27° ™ 15'05 0° √	1.31488 AU	may Earth dist	11696 Oct 16 17:37	0°ጤ 9°ጤ29'59	1 21264 ATT
evening rise	11695 Nov 08 22:05 11695 Nov 14 02:58	0° × ′ 11° √ 19'11		max. Earth dist.	11696 Oct 21 01:26	7 IIL2939	1.31364 AU
evening 1150	11695 Nov 14 02.38 11695 Nov 23 15:43	0°중		superior conj	11696 Oct 21 17:52	11° M 01'29	1°22'07
desc. node	11695 Nov 28 12:30	8° る 17'03		minimum elong	11696 Oct 21 17:32 11696 Oct 21 15:49		1°22'19
	110,01101 20 12.30	0 01,03			110,0 000 21 10.47	10 1100000	/

evening rise	11696 Oct 28 11:07	25° M 49'52		evening rise	11697 Oct 12 21:48	10°M25'34	
evening rise	11696 Oct 30 10:20	0° √		evening rise	11697 Oct 22 18:36	0° √ 1	
desc. node	11696 Nov 14 09:41	26° ₹ ¹56'58		desc. node	11697 Nov 01 06:55	14° × 7'40'07	
acoc. noue	11696 Nov 16 12:24	0°ਰ		evening max el	11697 Nov 07 13:36	21° × ⁷ 46'27	24°42'06
evening max el	11696 Nov 25 23:21	11° る 09'25	26°08'29	retrograde	11697 Nov 21 08:22	28°×7'40'30	
retrograde	11696 Dec 09 21:31	18° ට 13'30		evening set	11697 Nov 26 18:06	27° х 35′29	
evening set	11696 Dec 16 06:50	16° පි 36'03		min. Earth dist.	11697 Dec 02 01:15	24° ∡ ¹48'53	0.56459 AU
min. Earth dist.	11696 Dec 20 12:24	14° ට 00'37	0.58343 AU	inferior conj	11697 Dec 04 14:16	23° ∡ 11'45	-5°31'22
inferior conj	11696 Dec 23 14:53	11° ප් 44'53	-4°33'16	minimum elong	11697 Dec 04 20:20	23° ∡ °02'03	5°29'46
minimum elong	11696 Dec 23 23:13	11° る 29'39	4°30'17	morning rise	11697 Dec 13 00:44	19° ∡ 06'49	
morning rise	11696 Dec 31 18:18	7° る 18'33		direct	11697 Dec 15 10:49	18° ∡ 50'44	
direct	11697 Jan 02 21:28	7° る 03'33		morning max el	11697 Dec 25 02:37	23° ∡ ¹28'35	19°29'00
asc. node	11697 Jan 08 01:49	8°₹38'06		asc. node	11697 Dec 25 22:56	24° ∡ °19′29	
morning max el	11697 Jan 11 04:52	11° る 07'17	18°33'42		11697 Dec 30 11:57	ರ°ರ	
	11697 Jan 23 16:00	0° ≈		morning set	11698 Jan 11 07:42	21° る 15'45	
morning set	11697 Jan 27 05:10	6° ≈ 46′29			11698 Jan 15 15:55	0° ≈	
superior conj	11697 Feb 05 02:59	23° ≈ 47'45	0°40'36	superior conj	11698 Jan 19 08:18	7° ≈ 18'27	1°06'13
minimum elong	11697 Feb 05 05:33	23° ≈ 59'40	0°40'43	minimum elong	11698 Jan 19 11:14	7° ≈ 32'49	1°06'29
	11697 Feb 08 12:16	0°) €		max. Earth dist.	11698 Jan 25 18:22	19° ≈ 29'16	1.37952 AU
desc. node	11697 Feb 10 09:26	3°) €21'53		desc. node	11698 Jan 28 06:09	23° ≈ 59'30	
max. Earth dist.	11697 Feb 12 12:25	7°) €05'20	1.40175 AU	evening rise	11698 Jan 29 11:53	26° ≈ 11'04	
evening rise	11697 Feb 16 16:44	14°) 12′02			11698 Jan 31 16:38	0° ∀	
	11697 Feb 26 14:26	$0^{\circ}\mathbf{\Upsilon}$			11698 Feb 20 03:48	0° Y	
	11697 Mar 20 17:51	$0^{\circ}S$		evening max el	11698 Mar 05 22:48	16° Ƴ 38'17	25°06'06
evening max el	11697 Mar 23 09:18	2° 8 47'13	23°48'19	retrograde	11698 Mar 17 22:17	23° Y 35'33	
retrograde	11697 Apr 03 08:03	9° 8 14'10		evening set	11698 Mar 23 15:59	21° Υ 12'21	
asc. node	11697 Apr 05 23:17	8° 8 41'55		asc. node	11698 Mar 23 20:37	21° Y ′02'22	
evening set	11697 Apr 08 13:54	7° 8 01'59		min. Earth dist.	11698 Mar 28 02:26	16° Ƴ 15'44	0.67930 AU
min. Earth dist.	11697 Apr 13 07:51	1° 8 30'07	0.68559 AU	inferior conj	11698 Mar 29 07:03	14° Y ′42'04	1°39'03
inferior conj	11697 Apr 14 00:26	0° 8 33'31	2°17'53	minimum elong	11698 Mar 29 05:03	14° Y 48'36	1°38'14
minimum elong	11697 Apr 13 22:16	0° 8 40'54	2°16'57	morning rise	11698 Apr 03 18:25	8° ℃ 46'41	
	11697 Apr 14 10:16	30° ₹ Υ		direct	11698 Apr 07 08:58	7° Ƴ 31'55	
morning rise	11697 Apr 19 06:40	24° Y 29'56		morning max el	11698 Apr 14 12:06	11° Y °27'47	19°25'24
direct	11697 Apr 23 09:21	22° Y 54′26		desc. node	11698 Apr 26 07:44	26° Y 46'37	
morning max el	11697 May 01 09:18	27° Y 26′50	20°30'41	greatest brilliancy	11698 Apr 27 05:12	28° Y 05'38	-0.7m
	11697 May 03 18:35	0°8			11698 Apr 28 12:02	0°8	
desc. node	11697 May 09 11:00	7° 8 08'39		morning set	11698 May 09 08:54	16° 8 31'47	
	11697 May 25 04:13	0° Ц 7° Ц 57'31		Danil dia	11698 May 18 01:22	0°П 5°П 5014 (1 4500C AII
morning set	11697 May 30 08:45 11697 Jun 08 06:58	7°ДЗ/З1 22°Д02'04	1 42647 ATT	max. Earth dist.	11698 May 21 20:47	5° Ⅱ 58'46	1.45006 AU
max. Earth dist.	11697 Jun 13 04:25	0°95	1.43647 AU	superior conj	11600 May 25 10.22	12° Ⅱ 10'18	2012110
	1109/Juli 13 04.23	0 29		minimum elong	11698 May 25 18:32 11698 May 25 18:53	12 Ⅲ1018 12°Ⅲ11'44	
superior conj	11697 Jun 14 16:44	2°930'14	2°03'05	minimum clong	11698 Jun 05 18:04	0°95	2 1401
minimum elong	11697 Jun 14 10:44 11697 Jun 14 22:32	2°954'20		evening rise	11698 Jun 08 22:25	5° © 16'42	
evening rise	11697 Jun 27 02:59	23° © 47'24	2 03 30	asc. node	11698 Jun 19 18:35	23°S03'03	
evening rise	11697 Jun 30 16:12	0°Ω		ase. node	11698 Jun 24 14:28	0° Ω	
asc. node	11697 Jul 02 21:38	3° Ω 50′51		evening max el	11698 Jun 27 15:57	3° Ω 31'18	18°14'58
evening max el	11697 Jul 14 01:59	20° Ω 04'04	18°03'49	retrograde	11698 Jul 04 00:37	6° Ω 53'34	
retrograde	11697 Jul 20 14:02	23° Ω 25'38		evening set	11698 Jul 06 23:17	6° Ω 06'50	
evening set	11697 Jul 23 04:28	22° £ 52'44		inferior conj	11698 Jul 12 22:29	0° Ω 43'33	2°38'28
inferior conj	11697 Jul 29 16:10	17° Ω 46'58	1°53'13	minimum elong	11698 Jul 13 00:52	0° Ω 36'47	
minimum elong	11697 Jul 29 18:48	17° Ω 40'19	1°51'51	Č	11698 Jul 13 13:47	30°Rூ	
min. Earth dist.	11697 Aug 01 16:45	14° Ω 44'38	0.61723 AU	min. Earth dist.	11698 Jul 15 10:22	27° 9 54'37	0.63882 AU
morning rise	11697 Aug 05 06:41	11° Ω 43'25		morning rise	11698 Jul 19 00:58	24° © 27'13	
desc. node	11697 Aug 05 09:58	11° Ω 37'45		desc. node	11698 Jul 23 07:16	22° © 10'27	
direct	11697 Aug 11 22:47	9° £ 23'47		direct	11698 Jul 25 16:51	21° © 50'49	
morning max el	11697 Aug 26 03:26	17° Ω 24'51	27°57'47	morning max el	11698 Aug 08 12:34	29° © 52'18	27°38'57
-	11697 Sep 05 14:54	0° m)		-	11698 Aug 08 15:37	$0^{\circ}\Omega$	
	11697 Sep 23 20:11	0∘ <u>⊽</u>			11698 Aug 30 14:46	0° m)	
morning set	11697 Sep 28 17:42	9° £ 42'57		morning set	11698 Sep 12 11:17	23° m 23'31	
asc. node	11697 Sep 28 22:37	10° ≏ 08'16		asc. node	11698 Sep 15 19:17	0° <u>م</u> 09'30	
max. Earth dist.	11697 Oct 04 07:46	21° ≙ 34'38	1.31744 AU		11698 Sep 15 17:27	0∘ 亚	
				max. Earth dist.	11698 Sep 17 07:40	3° ₽ 19'20	1.32649 AU
superior conj	11697 Oct 06 03:51	25° ≏ 36'18	1°05'37				
minimum elong	11697 Oct 06 01:37	25° £ 23'55	1°05'32	superior conj	11698 Sep 20 10:13	9° ჲ 56'37	0°43'52
	11697 Oct 08 03:37	0° M		minimum elong	11698 Sep 20 08:19	9° ≏ 46'22	0°43'34

avanina risa	11600 Cap 27 00:07	25° ≙ 00'14		aumorior coni	11600 Cap 04 10:45	23° m 56'42	0017!14
evening rise	11698 Sep 27 09:07			superior conj	11699 Sep 04 10:45	-	
	11698 Sep 29 17:57	0° ™		minimum elong	11699 Sep 04 09:51	23° m 52'02	0°16'53
	11698 Oct 18 04:01	0° ∡ ¹			11699 Sep 07 07:45	0∘ 亚	
desc. node	11698 Oct 19 04:13	1° ∡ °04′02		evening rise	11699 Sep 11 19:14	9° ≏ 29'07	
evening max el	11698 Oct 20 00:01	1° ≯ ′53′28	23°01'34		11699 Sep 22 12:15	0° M ₊	
retrograde	11698 Nov 02 05:56	8° ∡ ¹28'43		evening max el	11699 Oct 01 15:30	12°M06'12	21°24'20
evening set	11698 Nov 06 06:21	7° ∡ ¹53'39		desc. node	11699 Oct 06 01:34	15° M 41′36	
min. Earth dist.	11698 Nov 13 09:09	4° ₮ 37'40	0.55115 AU	retrograde	11699 Oct 13 18:07	18° ጤ 07'17	
inferior conj	11698 Nov 14 18:18	3° ∡ ′50′01	-5°50'04	evening set	11699 Oct 16 10:30	17° M 50'43	
minimum elong	11698 Nov 14 16:58	3° ∡ ¹51'56	5°49'22	inferior conj	11699 Oct 25 10:51	13° M 55'37	-5°11'44
morning rise	11698 Nov 23 05:11	0° ₮ 00′22		minimum elong	11699 Oct 25 02:05	14°ML07'53	5°09'32
Č	11698 Nov 23 05:48	30°RML		min. Earth dist.	11699 Oct 25 15:44	13° M 48'45	0.54576 AU
direct	11698 Nov 26 05:55	29°M38'45		morning rise	11699 Nov 02 18:32	10°ML06'17	
anov	11698 Nov 29 03:57	0° ∡ 7		direct	11699 Nov 06 14:23	9°M34'42	
morning max el	11698 Dec 07 10:38	4° ∡ 757'32	20°47'17	morning max el	11699 Nov 19 05:26	15°M36'30	22°25'35
asc. node	11698 Dec 12 19:59	11° x 13'30	20 4/ 1/	asc. node	11699 Nov 29 16:56	29°M04'26	22 23 33
asc. node		0°중		asc. node			
	11698 Dec 23 17:24				11699 Nov 30 06:34	0° ∡ ⁷	
morning set	11698 Dec 26 15:30	5° る 57'02		morning set	11699 Dec 11 02:18	20° ∡ ¹43'52	
					11699 Dec 15 10:23	0°ಕ	
superior conj	11699 Jan 03 01:31	21° る 21'04	1°24'10				
minimum elong	11699 Jan 03 03:52	21° る 33'08	1°24'40	superior conj	11699 Dec 18 03:08	5° る 45'53	1°34'55
	11699 Jan 07 08:56	0°≈		minimum elong	11699 Dec 18 04:27	5° る 52'53	1°35'36
max. Earth dist.	11699 Jan 08 02:58	1° ≈ 28′07	1.35851 AU	max. Earth dist.	11699 Dec 21 18:10	13° る 21'06	1.34054 AU
evening rise	11699 Jan 12 01:24	8° ≈ 56'33		evening rise	11699 Dec 26 05:43	22° る 19'21	
desc. node	11699 Jan 15 02:55	14° ≈ 30'31			11699 Dec 30 07:12	0° ≈	
	11699 Jan 24 08:32	0° ₩		desc. node	11700 Jan 01 23:47	4° ≈ 50'35	
	11699 Feb 16 01:17	0° Ƴ			11700 Jan 18 02:39	0° \	
evening max el	11699 Feb 16 12:26	0° Υ 27'22	26°13'50	evening max el	11700 Jan 30 01:58	14° ¥ 05'55	27°04'05
retrograde	11699 Mar 01 07:23	7° Υ 43'10	20 13 30	retrograde	11700 Feb 12 10:35	21°) 29'42	27 0103
evening set	11699 Mar 07 12:35	5° Υ 12'31		evening set	11700 Feb 12 10:35	18°\(\frac{1}{2}\)	
asc. node	11699 Mar 10 17:58	1° Υ 58'12		min. Earth dist.	11700 Feb 23 00:32	15° ¥ 08'31	0.65467 AU
		0° Υ 50'44	0.0000 ATT			13 ★ 39'39	
min. Earth dist.	11699 Mar 11 16:44		0.66890 AU	inferior conj	11700 Feb 25 05:10		
	11699 Mar 12 09:21	30° ₹ ₩		minimum elong	11700 Feb 25 05:24	12°) (39′01	0°07'53
inferior conj	11699 Mar 13 09:22	28° ¥ 45′50	0°50'21	transit middle	11700 Feb 25 05:24	12° ¥ 39′01	0°07'53
minimum elong	11699 Mar 13 08:08	28°) 49′38	0°49'58	transit begin	11700 Feb 25 02:47	12° ¥ 46′25	
morning rise	11699 Mar 19 04:28	23° ₭ 00′28		transit end	11700 Feb 25 08:00	12° ∺ 31'37	
direct	11699 Mar 22 08:02	22°) €04'18		asc. node	11700 Feb 25 15:19	12° 升 10′58	
morning max el	11699 Mar 28 22:05	25° ∺ 36′23	18°36'02	morning rise	11700 Mar 03 10:29	7° ∺ 06'38	
	11699 Apr 01 18:12	$0^{\circ}\mathbf{\Upsilon}$		direct	11700 Mar 06 04:25	6°) €26'01	
desc. node	11699 Apr 13 04:24	16° Ƴ 47'26		morning max el	11700 Mar 12 13:18	9°) 46′36	18°03'24
morning set	11699 Apr 19 00:47	25° Y ′57'30		•	11700 Mar 26 16:54	0° Y	
Č	11699 Apr 21 14:33	0° ႘		morning set	11700 Mar 30 20:44	6° Y 47'06	
max. Earth dist.	11699 May 04 15:22	20° 8 23'48	1.45675 AU	desc. node	11700 Mar 31 01:02	7° Υ ′04'38	
max. Larm dist.	110)) Way 04 13.22	20 023 40	1.43073710	dese. Hode	11700 Apr 14 07:34	0° 8	
superior conj	11699 May 05 03:45	21° 8 12'16	2003:55		1170071p1 14 07.54	° О	
	11699 May 04 20:45	20° 8 44'53			11700 4 14 12.45	0° 8 20'27	1025127
minimum elong	,	20 3 44 33 0° Ⅱ	2 04 03	superior conj	11700 Apr 14 12:45	0 3 2027 29° Υ 43'48	
	11699 May 10 18:27			minimum elong	11700 Apr 14 03:28		1°34'59
evening rise	11699 May 20 17:42	15° Ⅱ 45'52	0.0	max. Earth dist.	11700 Apr 17 11:34	4° 8 58'39	1.45596 AU
greatest brilliancy	11699 May 28 18:36	28° Ⅲ 32′02	-0.8m	evening rise	11700 Apr 30 15:30	25° 8 25'37	
	11699 May 29 17:01	0° ©			11700 May 03 14:39	0°II	
asc. node	11699 Jun 06 15:38	11° 9 47'15		greatest brilliancy	11700 May 13 16:57	15° Ⅱ 21'42	-0.7m
evening max el	11699 Jun 11 03:51	17° © 09'37	18°43'55	asc. node	11700 May 24 12:45	29° Ⅱ 53'26	
retrograde	11699 Jun 17 18:18	20° 5 346'14			11700 May 24 15:12	0 \circ \odot	
evening set	11699 Jun 21 01:18	19° 5 44'11		evening max el	11700 May 25 11:21	0°952'29	19°29'40
inferior conj	11699 Jun 26 15:47	14° © 04'54	3°04'33	retrograde	11700 Jun 01 15:49	4° © 55'55	
minimum elong	11699 Jun 26 17:15	14°900'22	3°03'37	evening set	11700 Jun 05 07:37	3° © 37'52	
min. Earth dist.	11699 Jun 28 12:53	11° © 45'31	0.65728 AU		11700 Jun 08 22:35	30° Ŗ Ⅱ	
morning rise	11699 Jul 02 08:24	7° 5 43'21	-	inferior conj	11700 Jun 10 16:45	27° Ⅱ 44'09	3°15'06
direct	11699 Jul 08 18:28	5°900'51		minimum elong	11700 Jun 10 17:06	27° I I43'01	3°14'20
desc. node	11699 Jul 10 04:28	5°907'54		min. Earth dist.	11700 Jun 10 17:00 11700 Jun 11 23:03	26° I 04'08	0.67164 AU
			26040120				0.07104 AU
morning max el	11699 Jul 21 23:23	12°950'04	26°48'39	morning rise	11700 Jun 16 02:10	21° II 22'17	
	11699 Aug 04 18:42	0° N		direct	11700 Jun 22 02:29	18° Ⅱ 43'42	
	11699 Aug 23 06:05	0° m)		desc. node	11700 Jun 27 01:36	20° Ⅱ 10'36	
morning set	11699 Aug 26 18:13	6° Mg 32′20		morning max el	11700 Jul 04 10:01	26° Ⅱ 06′13	25°35'22
max. Earth dist.	11699 Aug 30 22:19	14° m)41'34	1.34071 AU		11700 Jul 08 00:01	0 \circ \odot	
asc. node	11699 Sep 02 15:58	20° Mp $14^{\circ}57$			11700 Jul 29 08:05	$0^{\circ}\Omega$	
				morning set	11700 Aug 09 10:40	18° Q 59′16	

max. Earth dist.	11700 Aug 13 02:57	25° Ω 48'23	1.35951 AU	morning set	11701 Jul 22 07:58	0° Ω 32'42	
	11700 Aug 15 07:33	0° m			11701 Jul 22 00:22	$0^{\circ}\Omega$	
				max. Earth dist.	11701 Jul 26 00:42	7° Ω 01'54	1.38161 AU
superior conj	11700 Aug 19 02:38	7° m 28'51				0	
minimum elong	11700 Aug 19 03:29	7° Mp 33'06	0°13'48	superior conj	11701 Aug 02 06:31	20° Ω 24'56	
behind sun begin	11700 Aug 19 00:14	7° Mp 16'46		minimum elong	11701 Aug 02 09:44	20° Ω 40'17	0°4/0/
behind sun end asc. node	11700 Aug 19 06:45 11700 Aug 20 12:41	7° Mp 49'26 10° Mp 20'19		asc. node	11701 Aug 07 09:26 11701 Aug 07 04:58	0° Mp 22'02 0° Mp	
evening rise	11700 Aug 20 12:41 11700 Aug 27 01:56	23° Mp 45'37		evening rise	11701 Aug 07 04:38 11701 Aug 11 02:40	7° m) 42'59	
evening rise	11700 Aug 30 04:07	0° ⊡		evening rise	11701 Aug 23 17:28	0∘ ত	
evening max el	11700 Sep 13 19:31	22° £ 55'51	20°03'13	evening max el	11701 Aug 27 13:24	4° £ 33'41	19°03'12
desc. node	11700 Sep 22 22:58	28° ഫ 04'30		retrograde	11701 Sep 05 10:31	8° ॒ 59'38	
retrograde	11700 Sep 24 07:51	28° ഫ 09'38		evening set	11701 Sep 07 07:07	8° ≏ 48'46	
evening set	11700 Sep 26 06:36	27° £ 59'39		desc. node	11701 Sep 09 20:23	8° ഫ 01'16	
inferior conj	11700 Oct 05 06:00	24° ≙ 00′18	-3°42'00	inferior conj	11701 Sep 15 16:45	4° ≙ 34'37	-1°50'02
minimum elong	11700 Oct 04 20:41	24° ≙ 14'18	3°38'40	minimum elong	11701 Sep 15 11:59	4° ≏ 42'48	1°48'10
min. Earth dist.	11700 Oct 07 00:26	22° £ 56'31	0.54973 AU	min. Earth dist.	11701 Sep 18 13:32	2° ₾ 36'39	0.56251 AU
morning rise	11700 Oct 13 09:36	19° £ 49'51			11701 Sep 23 03:22	30°R, M)	
direct	11700 Oct 18 01:13 11700 Oct 31 16:54	19° Ω 02'50 25° Ω 45'08	24°13'35	morning rise direct	11701 Sep 23 13:48	29° Mp 48'45	
morning max el	11700 Oct 31 16.34 11700 Nov 04 17:09	25 = 45 08 0° M	24 13 33	direct	11701 Sep 29 00:50 11701 Oct 04 22:38	28°M)38'51 0°Ω	
asc. node	11700 Nov 16 13:50	17°ML38'33		morning max el	11701 Oct 04 22:58 11701 Oct 13 04:59	o _ 5° _ 54'17	25°54'21
use. Houe	11700 Nov 22 23:14	0° ∡ 7		morning max or	11701 Oct 30 18:27	0°ML	23 3 . 21
morning set	11700 Nov 25 14:10	5° ∡ 130'42		asc. node	11701 Nov 03 10:39	6°M44'52	
C				morning set	11701 Nov 10 01:21	20°M12'11	
superior conj	11700 Dec 02 10:20	20° ∡ ¹24'39	1°39'01		11701 Nov 14 12:54	0° ∡ ¹	
minimum elong	11700 Dec 02 10:29	20° ∡ ¹25'32	1°39'46				
max. Earth dist.	11700 Dec 04 17:08		1.32674 AU	superior conj	11701 Nov 16 20:46	5° ₹ 09'54	1°36'59
	11700 Dec 06 21:31	0°ಕ		minimum elong	11701 Nov 16 19:51	5° ∡ 04'53	1°37'37
evening rise	11700 Dec 09 21:22	6°る10'51		max. Earth dist.	11701 Nov 17 22:24	7° ⋌ ³31'48	1.31776 AU
desc. node	11700 Dec 19 20:45	24° る 54'13		evening rise	11701 Nov 23 21:21	20° ∡ 23′00	
avanina may al	11700 Dec 22 21:24 11701 Jan 12 14:13	0° ≈ 27° ≈ 23'03	27920155	desc. node	11701 Nov 28 15:53 11701 Dec 06 17:48	0°る 14°る33'38	
evening max el	11701 Jan 12 14.13	27 ≈ 23 03 0° \	21 29 33	desc. node	11701 Dec 06 17.48 11701 Dec 17 02:17	0°≈	
retrograde	11701 Jan 26 07:23	4°) 46'40		evening max el	11701 Dec 25 23:08	0 ∞ 10°≈05'39	27°25'10
evening set	11701 Feb 02 05:12	2°)(18'00		retrograde	11702 Jan 08 20:39	17°≈23'10	27 23 10
<i>3</i> - 11	11701 Feb 04 23:23	30°R ≈		evening set	11702 Jan 15 19:53	15° ≈ 07'40	
min. Earth dist.	11701 Feb 05 23:58	29° ≈ 00'41	0.63704 AU	min. Earth dist.	11702 Jan 19 13:29	12° ≈ 15′09	0.61684 AU
inferior conj	11701 Feb 08 15:49	26° ≈ 17'33	-1°16'23	inferior conj	11702 Jan 22 14:07	9° ≈ 30'29	-2°32'12
minimum elong	11701 Feb 08 18:16	26° ≈ 11'17	1°14'53	minimum elong	11702 Jan 22 19:20	9° ≈ 18'37	2°29'32
asc. node	11701 Feb 12 12:38	22° ≈ 41'40		morning rise	11702 Jan 29 21:31	4° ≈ 30'15	
morning rise	11701 Feb 15 09:30	20° ≈ 59'30		asc. node	11702 Jan 30 09:55	4° ≈ 21'44	
direct	11701 Feb 17 19:29	20°≈30'48	180 1815 6	direct	11702 Feb 01 01:50	4°≈09'42	15050110
morning max el	11701 Feb 24 06:59	23°≈51'04	17°47'56	morning max el	11702 Feb 07 23:48	7°≈39'34	17°50'19
morning set	11701 Mar 01 06:31 11701 Mar 12 20:05	0° \ 18° \ 56'24		morning set	11702 Feb 22 12:41 11702 Feb 23 16:40	0° ∺ 2° ∺ 05'34	
desc. node	11701 Mar 12 20:03	27°\(\frac{1}{3}3'39\)		desc. node	11702 Nev 23 10.40	2 ★ 09'41	
dese. Hode	11701 Mar 19 08:28	0° Υ		dese. Hode	11702 Widi 04 10.17	10 7(0) 41	
		•		superior conj	11702 Mar 06 16:33	21°) 28'24	-0°14'48
superior conj	11701 Mar 25 14:33	10° Y 20′11	-0°56'09	minimum elong	11702 Mar 06 15:11	21° ¥ 22'36	0°14'23
minimum elong	11701 Mar 25 08:38	9° Ƴ 56'07	0°55'24	behind sun begin	11702 Mar 06 11:24	21°) €06′24	
max. Earth dist.	11701 Mar 31 06:26	19° Ƴ 26'04	1.44790 AU	behind sun end	11702 Mar 06 18:59	21° ¥ 38'47	
	11701 Apr 07 00:16	9° 8			11702 Mar 11 18:26	0° Y	
evening rise	11701 Apr 10 03:02	4° 8 48'03		max. Earth dist.	11702 Mar 13 21:39	3° Y 29'51	1.43348 AU
	11701 Apr 27 01:07	0°II		evening rise	11702 Mar 20 19:54	14° Y ³32′00	
evening max el	11701 May 08 13:17	14° Ⅱ 37'14	20°30'17		11702 Mar 31 00:04	0°8	21042126
asc. node	11701 May 11 09:58	17° Ⅱ 09'53		evening max el	11702 Apr 21 09:43	28° 8 23'06	21°42'36
retrograde evening set	11701 May 16 14:43 11701 May 20 16:02	19° Ⅱ 17'24 17° Ⅱ 43'19		asc. node	11702 Apr 23 02:27 11702 Apr 28 07:14	0°Щ 3°Щ21'32	
inferior conj	11701 May 20 16:02 11701 May 25 22:43	11° II 36'51	3°12'47	retrograde	11702 Apr 28 07.14 11702 Apr 30 12:54	3° Ц 45'26	
minimum elong	11701 May 25 22:43	11° II 30'31	3°12'02	evening set	11702 Apr 30 12:34 11702 May 05 00:41	1° I I55'42	
min. Earth dist.	11701 May 26 14:59	10° I I40′56	0.68150 AU		11702 May 06 23:24	30°R8	
morning rise	11701 May 31 03:43	5° Ⅱ 17'51		inferior conj	11702 May 10 07:21		2°59'22
direct	11701 Jun 05 16:07	2° Ⅱ 51'14		minimum elong	11702 May 10 05:49	25° 8 43'55	2°58'32
desc. node	11701 Jun 13 22:39	6° Ⅱ 50′24		min. Earth dist.	11702 May 10 10:26	25° 8 27'49	0.68673 AU
morning max el	11701 Jun 16 19:55	9° Ⅱ 32′20	24°08'50	morning rise	11702 May 15 10:44	19° 8 24'31	
	11701 Jul 02 23:42	0ං ව		direct	11702 May 20 10:07	17° 8 15'36	

morning max el	11702 May 30 06:46	23° 8 05'16	22°39'01	direct	11703 May 04 07:19	1° 8 50'04	
desc. node	11702 May 31 19:36	24° 8 41'36	22 37 01	morning max el	11703 May 12 22:00	6° 8 48'04	21°14'25
	11702 Jun 05 08:13	0°П		desc. node	11703 May 18 16:28	13° 8 24'56	
	11702 Jun 26 08:00	0ಂತಾ			11703 May 30 15:52	0°II	
morning set	11702 Jul 03 05:17	11° © 00'28		morning set	11703 Jun 13 00:43	20° Ⅱ 19'05	
max. Earth dist.	11702 Jul 07 22:29	18° © 52'38	1.40474 AU	C	11703 Jun 19 02:05	0ಂತಾ	
	11702 Jul 14 07:38	$0^{\circ}\Omega$		max. Earth dist.	11703 Jun 20 02:18	1° 5 38'41	1.42612 AU
superior conj	11702 Jul 15 18:16	2° Ω 35'40	-1°20'48	superior conj	11703 Jun 27 09:20	13° © 50'34	-1°50'18
minimum elong	11702 Jul 15 23:56	3° Ω 01′15	1°20'40	minimum elong	11703 Jun 27 16:04	14° © 19'23	1°50'26
asc. node	11702 Jul 25 06:15	20° Ω 16′21			11703 Jul 06 14:00	0 $^{\circ}$ Ω	
evening rise	11702 Jul 25 18:13	21° Ω 12′56		evening rise	11703 Jul 08 20:27	4° Ω 05′02	
	11702 Jul 30 11:02	0° ™		asc. node	11703 Jul 12 03:06	9° Ω 58'30	
evening max el	11702 Aug 10 18:00	16° m 54'49	18°24'27	evening max el	11703 Jul 25 05:06	29° Ω 48'34	18°05'47
retrograde	11702 Aug 18 08:01	20° m 43'55			11703 Jul 25 09:48	0° m)	
evening set	11702 Aug 20 10:13	20° To 27'17		retrograde	11703 Jul 31 23:22	3° Mp 15'51	
desc. node	11702 Aug 27 17:47	16° Mp 07'10	000 512 0	evening set	11703 Aug 03 09:18	2° m/49'39	
inferior conj	11702 Aug 28 00:55	15° m 52'50			11703 Aug 07 21:58	30°R€	1017150
minimum elong	11702 Aug 28 00:42	15° Mp 53'16	0°05'41	inferior conj	11703 Aug 10 05:53	27° Ω 54'32	
transit middle	11702 Aug 28 00:42	15° M 53'16	0°05'41	minimum elong min. Earth dist.	11703 Aug 10 08:03 11703 Aug 13 11:25	27° Ω 49'27 24° Ω 54'20	1°15'45 0.60413 AU
transit begin transit end	11702 Aug 27 21:23	15° m 59'56 15° m 46'35		desc. node	Č	24 δ l 34 20 23° Ω 54'45	0.00413 AU
min. Earth dist.	11702 Aug 28 04:01 11702 Aug 31 08:36	13° M) 13'27	0.58172 AU	morning rise	11703 Aug 14 15:10 11703 Aug 17 03:54	$23^{\circ} \Omega 03'10$	
morning rise	11702 Aug 31 08.30 11702 Sep 04 11:40	10° Mp 30'34	0.36172 AU	direct	11703 Aug 17 03.34 11703 Aug 23 17:13	$19^{\circ}\Omega57'35$	
direct	11702 Sep 04 11:40 11702 Sep 10 14:55	8° m 52'39		morning max el	11703 Aug 23 17:13 11703 Sep 07 00:21	27° Ω 52'18	27°51'58
morning max el	11702 Sep 24 23:00	16° Mp 31'43	27°10'53	morning max cr	11703 Sep 07 00:21 11703 Sep 09 01:40	0° m)	27 31 30
morning max cr	11702 Oct 06 00:39	0° <u>م</u>	27 1033		11703 Sep 09 01:40	0° ت	
asc. node	11702 Oct 21 07:26	ა — 26° Ω 14'51		asc. node	11703 Oct 08 04:09	ა – 16° ჲ 00'56	
use. Houe	11702 Oct 23 03:53	0°M		morning set	11703 Oct 09 14:50	18° ≏ 59'58	
morning set	11702 Oct 25 10:12	4°M43'54			11703 Oct 14 17:44	0°M	
				max. Earth dist.	11703 Oct 15 15:34	2°M00'26	1.31466 AU
superior conj	11702 Nov 01 08:29	19° M 55'48	1°29'10				
minimum elong	11702 Nov 01 06:45	19° M 46'10	1°29'33	superior conj	11703 Oct 16 19:35	4° ™ 35'37	1°15'47
max. Earth dist.	11702 Nov 01 07:08	19° M .48'18	1.31372 AU	minimum elong	11703 Oct 16 17:23	4°M23'27	1°15'51
	11702 Nov 05 21:34	0° ∡ ″		evening rise	11703 Oct 23 12:37	19°M22'51	
evening rise	11702 Nov 08 03:10	4° ∡ ¹49'22			11703 Oct 28 15:31	0° ∡ ¹	
	11702 Nov 21 08:31	5°0		desc. node	11703 Nov 10 12:08	21° ₹ '57'15	
desc. node	11702 Nov 23 14:56	3° る 39'17			11703 Nov 16 20:28	8°0	
evening max el	11702 Dec 08 02:11	22° る 02'44	26°46'09	evening max el	11703 Nov 19 21:00	3° る 07'00	25°34'32
retrograde	11702 Dec 22 00:49	29° る 11'05		retrograde	11703 Dec 03 17:59	10° පි 06'21	
evening set	11702 Dec 28 17:58	27° る 17'47		evening set	11703 Dec 09 18:56	8° る 42'25	
min. Earth dist.	11703 Jan 01 16:23	24° る 40'03	0.59554 AU	min. Earth dist.	11703 Dec 14 09:18		0.57503 AU
inferior conj	11703 Jan 04 20:32	22°号09'20		inferior conj	11703 Dec 17 07:43	4° る 03'57	
minimum elong	11703 Jan 05 04:15	21° ろ 54'00	3°47'27	minimum elong	11703 Dec 17 15:43	3° ප 50'11	4°58'43
morning rise	11703 Jan 12 17:22	17° る 29'39			11703 Dec 24 18:43	30°₽ ⋌	
direct	11703 Jan 14 19:33	17° る 13'33		morning rise	11703 Dec 25 14:54	29° х 46'49	
asc. node	11703 Jan 17 07:07	17°る37'17	10011140	direct	11703 Dec 27 20:17	29° ₹ 31'42	
morning max el	11703 Jan 22 12:11	21° る 02'24	18°11'49	4-	11703 Dec 30 19:16	0°る	
	11703 Jan 29 06:49	0°≈ 15°≈56'26		asc. node	11704 Jan 04 04:15	2°る28'34	10054124
morning set	11703 Feb 07 04:25 11703 Feb 14 17:09	0°)		morning max el	11704 Jan 05 16:17 11704 Jan 21 23:34	3°る48'38 0°≈	18°54'24
	11/03 100 14 17.09	0 /(morning set	11704 Jan 22 02:36	0 ∞ 0°≈14'50	
superior conj	11703 Feb 16 17:57	3°) 41'42	0°22'21	morning set	11/07 Jan 22 U2.30	· ~1+30	
minimum elong	11703 Feb 16 19:38	3°) (49'16	0°22'30	superior conj	11704 Jan 30 14:27	16° ≈ 48'06	0°52'26
desc. node	11703 Feb 10 15:58	8°) (49'08	0 22 30	minimum elong	11704 Jan 30 17:19	17° ≈ 01'46	0°52'34
max. Earth dist.	11703 Feb 24 08:37	16° ¥ 59'08	1.41427 AU	desc. node	11704 Feb 06 11:39	29° ≈ 28'29	
evening rise	11703 Mar 01 05:49	25°) (04'11		max. Earth dist.	11704 Feb 06 15:55	29° ≈ 47'25	1.39235 AU
<i>5</i>	11703 Mar 04 07:39	0° Υ			11704 Feb 06 18:45	0° ∀	
	11703 Mar 24 20:11	0°8		evening rise	11704 Feb 10 12:57	6°) 32'05	
evening max el	11703 Apr 04 02:01	_	23°01'54	Č	11704 Feb 25 08:10	0° Υ	
retrograde	11703 Apr 14 08:53	18° 8 15'22		evening max el	11704 Mar 16 15:58	26° Y ′01'32	24°22'10
asc. node	11703 Apr 15 04:32	18° 8 12'12		-	11704 Mar 21 06:11	0°8	
evening set	11703 Apr 19 08:01	16° 8 10'55		retrograde	11704 Mar 28 01:27	2° 8 42'05	
inferior conj	11703 Apr 24 16:39	9° 8 45'47	2°35'50	asc. node	11704 Apr 01 01:50	1° 8 28'51	
minimum elong	11703 Apr 24 14:37	9° 8 52'52	2°34'55	evening set	11704 Apr 02 12:29	0° 8 24'43	
min. Earth dist.	11703 Apr 24 07:09	10° 8 18'41	0.68736 AU		11704 Apr 02 23:34	30° ₹ Υ	
morning rise	11703 Apr 29 21:06	3° 8 38'09		min. Earth dist.	11704 Apr 07 03:03	25° Y ′08′10	0.68348 AU

inferior conj	11704 Apr 08 00:47	23° Y ′55'07	2°02'35	morning rise	11705 Mar 28 20:12	2° Y 11'07	
minimum elong	11704 Apr 07 22:38	24° Y 02'22	2°01'41	direct	11705 Apr 01 05:51	1° Y 04'46	
morning rise	11704 Apr 13 08:54	17° Y ′55′05		morning max el	11705 Apr 08 02:33	4° Y 48'58	19°02'26
direct	11704 Apr 17 06:22	16° Ƴ 28'34		desc. node	11705 Apr 21 09:55	22° Y 34'50	
morning max el	11704 Apr 24 20:25	20° Ƴ 43′26	20°01'07	greatest brilliancy	11705 Apr 21 08:43	22° Y 30'18	-0.7m
	11704 May 02 13:03	9° 8			11705 Apr 26 06:36	9° 8	
desc. node	11704 May 04 13:14	2° 8 46'16		morning set	11705 May 01 06:45	7° 8 43'55	
morning set	11704 May 22 02:26	28° 8 54'28		max. Earth dist.	11705 May 15 05:22	29° 8 26'15	1.45377 AU
	11704 May 22 19:26	$\Pi^{\circ}0$			11705 May 15 13:58	$\Pi^{\circ}0$	
max. Earth dist.	11704 Jun 01 13:16	15° Ⅲ 15'33	1.44306 AU				
				superior conj	11705 May 17 17:43	3° Ⅲ 23'31	-2°11'52
superior conj	11704 Jun 07 00:31	24° Ⅲ 04′04	-2°09'33	minimum elong	11705 May 17 14:46	3° Ⅱ 11′53	2°12'27
minimum elong	11704 Jun 07 04:36	24° Ⅲ 20′39	2°10'10	evening rise	11705 Jun 01 13:56	27° Ⅲ 12′20	
	11704 Jun 10 15:11	0 \circ \odot			11705 Jun 03 07:01	0 \circ \odot	
evening rise	11704 Jun 20 04:36	16° © 08'27		asc. node	11705 Jun 14 21:02	18° © 25'23	
asc. node	11704 Jun 28 00:02	29° © 23'52		evening max el	11705 Jun 21 08:18	26° © 38'36	18°25'06
	11704 Jun 28 08:50	$0^{\circ}\Omega$			11705 Jun 26 18:00	$0^{\circ}\Omega$	
evening max el	11704 Jul 07 18:57	13° Ω 06′06	18°06'14	retrograde	11705 Jun 27 18:33	0° Ω 05'46	
retrograde	11704 Jul 14 04:24	16° Ω 26′27			11705 Jun 28 18:56	30° ₹ 🥯	
evening set	11704 Jul 16 22:19	15° Ω 47'51		evening set	11705 Jun 30 20:36	29° © 12'48	
inferior conj	11704 Jul 23 04:11	10° Ω 34'05	2°15'00	inferior conj	11705 Jul 06 15:40	23° 5 42'27	2°51'37
minimum elong	11704 Jul 23 06:50	10° Ω 27'01	2°13'40	minimum elong	11705 Jul 06 17:42	23° © 36'25	2°50'32
min. Earth dist.	11704 Jul 25 23:39	7° Ω 35'22	0.62670 AU	min. Earth dist.	11705 Jul 08 21:22	21° 5 04'19	0.64711 AU
morning rise	11704 Jul 29 13:22	4° Ω 23'52		morning rise	11705 Jul 12 13:36	17° 5 22'49	
desc. node	11704 Jul 31 12:28	3° Ω 09'31		desc. node	11705 Jul 18 09:42	14°9544'22	
direct	11704 Aug 05 05:58	1° Ω 56'14		direct	11705 Jul 19 03:27	14°9542'28	
morning max el	11704 Aug 19 07:38	9° Ω 58'34	27°54'09	morning max el	11705 Aug 01 18:01	22°541'16	27°20'54
C	11704 Sep 03 22:40	0° m)		Č	11705 Aug 08 04:50	$0^{\circ}\Omega$	
	11704 Sep 21 02:14	0∘ <u>⊽</u>			11705 Aug 28 05:09	0° ™	
morning set	11704 Sep 22 13:11	2° £ 55'25		morning set	11705 Sep 06 02:40	16° m) 23'55	
asc. node	11704 Sep 24 00:52	5° ≏ 58'05		max. Earth dist.	11705 Sep 10 16:02	25° m) 33'18	1.33189 AU
max. Earth dist.	11704 Sep 27 19:47	13° ≏ 58'04	1.32069 AU	asc. node	11705 Sep 10 21:34	26° m) 01'55	
	1				11705 Sep 12 19:13	0∘ <mark>⊽</mark>	
superior conj	11704 Sep 30 04:14	19° ≙ 04'26	0°57'01		-		
minimum elong	11704 Sep 30 02:04	18° ჲ 52'33	0°56'49	superior conj	11705 Sep 14 08:25	3° ₽ 16'59	0°33'08
_	11704 Oct 05 03:47	0° M ₊		minimum elong	11705 Sep 14 06:52	3° ჲ 08'40	0°32'47
evening rise	11704 Oct 06 23:47	3°M58'25		evening rise	11705 Sep 21 10:50	18° ≏ 31'18	
	11704 Oct 20 18:18	0° ∡ 7			11705 Sep 27 01:23	0° M	
desc. node	11704 Oct 27 09:24	9° ∡ 09'26		evening max el	11705 Oct 12 19:46	23°MJ31'03	22°18'52
evening max el	11704 Oct 31 08:30	13° ∡ ′26′19	23°59'53	desc. node	11705 Oct 14 06:44	24°M52'00	
retrograde	11704 Nov 13 23:03	20° ∡ 14'17		retrograde	11705 Oct 25 16:24	29° M 54'37	
evening set	11704 Nov 18 19:40	19° ∡ ¹22'36		evening set	11705 Oct 29 01:47	29°M29'13	
min. Earth dist.	11704 Nov 24 19:11	16° ∡ ¹25'49	0.55803 AU	min. Earth dist.	11705 Nov 06 02:20	25° M 55'19	0.54766 AU
inferior conj	11704 Nov 26 22:15	15° ∡ ¹08'33	-5°45'28	inferior conj	11705 Nov 06 20:03	25°M30'23	-5°41'11
minimum elong	11704 Nov 27 01:42	15° ∡ 03′20	5°44'29	minimum elong	11705 Nov 06 15:02	25°M37'26	5°40'06
morning rise	11704 Dec 05 09:43	11° ∡ 11'50		morning rise	11705 Nov 15 05:43	21°M43'12	
direct	11704 Dec 08 01:16	10° ∡ 53′58		direct	11705 Nov 18 14:01	21°ML18'05	
morning max el	11704 Dec 18 08:25	15° ∡ ¹48'04	19°59'41	morning max el	11705 Nov 30 10:39	26°M55'43	21°27'12
asc. node	11704 Dec 21 01:20	18° ∡ ¹42'36			11705 Dec 03 08:42	0° ∡ ¹	
	11704 Dec 28 14:50	0°ಕ		asc. node	11705 Dec 07 22:21	6° ∡ ¹03'02	
morning set	11705 Jan 05 07:40	14° る 50'10		morning set	11705 Dec 20 17:01	29° ∡ ³34'55	
	11705 Jan 12 18:30	0° ≈			11705 Dec 20 21:49	8°0	
superior conj	11705 Jan 13 01:18	0° ≈ 34′00		superior conj	11705 Dec 27 22:32	14° る 47'58	
minimum elong	11705 Jan 13 04:05	0° ≈ 47'50	1°15'06	minimum elong	11705 Dec 28 00:29	14° る 58'06	
max. Earth dist.	11705 Jan 18 22:24	11° ≈ 58'31	1.37025 AU	max. Earth dist.	11706 Jan 01 09:08		1.35031 AU
evening rise	11705 Jan 22 16:15	18° ≈ 51'38			11706 Jan 04 12:27	0° ≈	
desc. node	11705 Jan 23 08:23	20°≈03'52		evening rise	11706 Jan 05 12:34	1° ≈ 54'52	
	11705 Jan 29 02:43	0° ∀		desc. node	11706 Jan 10 05:13	10° ≈ 31'23	
	11705 Feb 18 12:36	0° Υ			11706 Jan 22 02:48	0° ∀	
evening max el	11705 Feb 27 05:13	9° Y 51'58	25°36'32	evening max el	11706 Feb 09 18:48	23°) €37'55	26°37'46
retrograde	11705 Mar 11 13:38	16° Y ′58′58			11706 Feb 18 12:12	0° Υ	
evening set	11705 Mar 17 12:27	14° Y ′31'44		retrograde	11706 Feb 22 20:35	0° Y 59′13	
asc. node	11705 Mar 18 23:11	13° Y 10'30			11706 Feb 26 21:14	30°₽)	
min. Earth dist.	11705 Mar 21 19:58	9° Υ 50'18	0.67536 AU	evening set	11706 Mar 01 06:12	28°) € 26'42	
inferior conj	11705 Mar 23 05:49	8° Υ '02'12	1°19'35	min. Earth dist.	11706 Mar 05 07:52	24°) 19'24	0.66326 AU
minimum elong	11705 Mar 23 04:04	8° Ƴ 07'48	1°18'56	asc. node	11706 Mar 05 20:30	23°) 42′12	

	1170634 07 05 41	2201/02/01	0007140		11707 F 1 10 15 22	1201/02/02	
inferior conj	11706 Mar 07 05:41	22°) €03'01	0°26'43	evening set	11707 Feb 12 15:32	12°) €02'02	
minimum elong	11706 Mar 07 04:59	22°) €05'08	0°26'37	min. Earth dist.	11707 Feb 16 12:31		0.64751 AU
morning rise	11706 Mar 13 04:51	16° ¥ 22'36		inferior conj	11707 Feb 18 21:57	5° ¥ 51′06	
direct	11706 Mar 16 04:01	15° ∺ 33'38		minimum elong	11707 Feb 18 23:02	5°) 48′10	0°35'12
morning max el	11706 Mar 22 15:06	18° ¥ 59'46	18°20'02	asc. node	11707 Feb 20 17:50	3°) 54′54	
	11706 Mar 31 02:55	0 ° $\mathbf{\Upsilon}$		morning rise	11707 Feb 25 08:16	0°) €23'48	
desc. node	11706 Apr 08 06:35	12° Y '43'36			11707 Feb 26 11:20	30° ₹ ≈	
morning set	11706 Apr 11 09:57	17° Ƴ 43'52		direct	11707 Feb 27 22:34	29° ≈ 48'41	
	11706 Apr 19 03:26	0°8			11707 Mar 01 09:51	0°) €	
				morning max el	11707 Mar 06 07:40	3° ¥ 08′07	17°54'39
superior conj	11706 Apr 27 00:36	12° 8 22'36	-1°53'53	morning set	11707 Mar 23 18:12	29°) €09'38	
minimum elong	11706 Apr 26 15:45	11° 8 48'01	1°53'40	. 8	11707 Mar 24 06:19	0° Υ	
max. Earth dist.	11706 Apr 28 00:23	13° 8 55'33	1.45734 AU	desc. node	11707 Mar 26 03:15	3° Υ ′06'32	
max. Earth dist.	11706 May 08 07:26	0°Ⅱ	1.43734710	dese. Hode	11707 With 20 03.13	3 1 00 32	
	-	0 H 7°H17'32			11707 4 06 15:00	21° Y ′48'41	1910120
evening rise	11706 May 12 23:13		0.0	superior conj	11707 Apr 06 15:08		
greatest brilliancy	11706 May 23 08:28	23° Ⅱ 29'25	-0.8m	minimum elong	11707 Apr 06 06:50	21°Υ15'33	1°18'53
	11706 May 27 16:33	ი _ა ფ		max. Earth dist.	11707 Apr 10 20:14	28° Y ′28'56	1.45342 AU
asc. node	11706 Jun 01 18:07	6°954'51			11707 Apr 11 19:25	0°8	
evening max el	11706 Jun 04 18:33	10° © 19'30	19°01'27	evening rise	11707 Apr 22 14:51	16° 8 45'27	
retrograde	11706 Jun 11 14:09	14° © 06'11			11707 May 01 07:35	Π $\circ 0$	
evening set	11706 Jun 15 00:45	12° © 57'33		greatest brilliancy	11707 May 07 06:36	8° Ⅱ 51'31	-0.6m
inferior conj	11706 Jun 20 12:36	7° © 12'11	3°10'44	evening max el	11707 May 18 23:53	24° Ⅱ 04'19	19°53'51
minimum elong	11706 Jun 20 13:36	7° 5 09'00	3°09'52	asc. node	11707 May 19 15:15	24° Ⅱ 41'59	
min. Earth dist.	11706 Jun 22 03:27	5° ॐ 08'19	0.66396 AU	retrograde	11707 May 26 12:24	28° Ⅲ 21'57	
morning rise	11706 Jun 26 01:48	0°9549'53	***************************************	evening set	11707 May 30 08:12	26° I 57'02	
morning rise	11706 Jun 27 02:36	30°RⅡ		inferior conj	11707 Jun 04 16:00	20° I 57'56	3°15'33
direct	11706 Jul 02 08:11	28° Ⅱ 07'35		minimum elong	11707 Jun 04 15:53	20° ∏ 58'19	3°14'48
		28° П 38'16		_		20 П 36 19 19° П 36'15	0.67646 AU
desc. node	11706 Jul 05 06:53			min. Earth dist.	11707 Jun 05 16:16		0.07040 AU
	11706 Jul 08 04:19	0.2 0		morning rise	11707 Jun 09 23:13	14° Ⅲ 37'11	
morning max el	11706 Jul 15 04:49	5° © 47'53	26°19'33	direct	11707 Jun 15 18:48	12° ∏ 02'39	
	11706 Aug 02 19:42	0 \circ Ω		desc. node	11707 Jun 22 04:00	14° ∏ 26′04	
morning set	11706 Aug 20 03:57	29° Ω 16′20		morning max el	11707 Jun 27 14:51	19° Ⅱ 08'34	24°59'30
	11706 Aug 20 13:16	0° m y			11707 Jul 06 19:43	0	
max. Earth dist.	11706 Aug 24 01:53	6° Mp 45′20	1.34816 AU		11707 Jul 26 21:59	$0^{\circ}\Omega$	
asc. node	11706 Aug 28 18:17	16° m 07'59		morning set	11707 Aug 02 12:53	11° Ω 22'22	
				max. Earth dist.	11707 Aug 06 02:53	17° Ω 51'42	1.36866 AU
superior conj	11706 Aug 29 05:40	17° Mp 06'19	0°04'36		11707 Aug 12 11:52	0° m/y	
minimum elong	11706 Aug 29 05:25	17° mp 05'03	0°04'18		Č	•	
behind sun begin	11706 Aug 28 23:40	16° mp 35'33	0 0.10	superior conj	11707 Aug 12 16:58	0° m 25'02	-0°27'37
behind sun end	11706 Aug 29 11:10	17° mp 34'37		minimum elong	11707 Aug 12 18:46	0° m ₂ 33'50	0°27'42
ociniia sun cha	11706 Aug 29 11:10 11706 Sep 04 10:07	0° ⊽		asc. node	11707 Aug 12 18:40 11707 Aug 15 15:02	6° Mg 12'46	0 2/42
	*				Č		
evening rise	11706 Sep 05 19:46	2° Ω 55'33		evening rise	11707 Aug 21 00:18	17° m 05'19	
	11706 Sep 21 04:27	0° ™			11707 Aug 27 15:52	0∘ ত	
evening max el	11706 Sep 24 16:12	3° ™ 57'36	20°47'29	evening max el	11707 Sep 07 02:25	15° ≏ 08'14	19°35'01
desc. node	11706 Oct 01 04:07	8°M35'37		retrograde	11707 Sep 16 21:07	20° ≏ 00'27	
retrograde	11706 Oct 06 03:25	9° ™ 39'03		desc. node	11707 Sep 18 01:31	19° ≏ 56'27	
evening set	11706 Oct 08 10:00	9° M 26′36		evening set	11707 Sep 18 17:46	19° ≙ 50'39	
inferior conj	11706 Oct 17 11:54	5°M31'43	-4°38'36	inferior conj	11707 Sep 27 12:27	15° ≏ 46'02	-2°55'10
minimum elong	11706 Oct 17 01:57	5° ™ 45'55	4°35'37	minimum elong	11707 Sep 27 04:47	15° ≙ 58'10	2°52'13
min. Earth dist.	11706 Oct 18 09:49	5° M ₀00'25	0.54626 AU	min. Earth dist.	11707 Sep 29 19:55	14° ≏ 18'29	0.55427 AU
morning rise	11706 Oct 25 17:54	1°M35'35		morning rise	11707 Oct 05 13:46	11° ≏ 21'55	
direct	11706 Oct 29 22:17	0°M58'00		direct	11707 Oct 10 14:07	10° Ω 25'57	
morning max el	11706 Nov 12 01:18	7°M18'23	23°11'12	morning max el	11707 Oct 24 11:55	17° ⊆ 22'38	24058122
•			23 11 12	morning max ci			24 38 22
asc. node	11706 Nov 24 19:17	24°M13'57			11707 Nov 03 20:01	0°M	
	11706 Nov 28 01:00	0° ∡ 7		asc. node	11707 Nov 11 16:11	13°M03'13	
morning set	11706 Dec 05 04:28	14° ∡ °22′08		morning set	11707 Nov 19 16:15	29°M07'08	
					11707 Nov 20 02:06	0° ∡	
superior conj	11706 Dec 12 02:50	29° х 19′30	1°37'25				
minimum elong	11706 Dec 12 03:40	29° ∡ ¹23'58	1°38'10	superior conj	11707 Nov 26 11:39	14° ∡ °01′27	1°38'52
	11706 Dec 12 10:22	8°0		minimum elong	11707 Nov 26 11:20	13° ₹ 59'44	1°39'36
max. Earth dist.	11706 Dec 15 03:33	5° ප 46'08	1.33411 AU	max. Earth dist.	11707 Nov 28 05:41	17° ∡ ′51'40	1.32240 AU
evening rise	11706 Dec 19 22:08	15° ට 31'06		evening rise	11707 Dec 03 17:40	29° х 32′11	
<i>5</i> - <i>7</i>	11706 Dec 27 15:50	0° ≈		3 - 7	11707 Dec 03 23:06	0°る	
desc. node	11706 Dec 28 02:09	0°≈45'17		desc. node	11707 Dec 14 23:09	20° ට 39'30	
acse. node	11700 Dec 28 02:09 11707 Jan 16 18:27	0°)		acce. Houc	11707 Dec 14 23:09 11707 Dec 20 17:55	20 ⊙ 3930	
ovenina ma1		0 X 7° ¥ 09'18	27010122	avanina ma1			27021156
evening max el	11707 Jan 23 08:09		2/ 1833	evening max el	11708 Jan 05 19:28	20°≈13'35	2/ 3130
retrograde	11707 Feb 05 21:14	14° ∺ 33'52		retrograde	11708 Jan 19 14:39	27° ≈ 34'08	

Marchard 1798	evening set	11708 Jan 26 13:53	25°≈10'15		evening max el	11708 Dec 18 02:07	2° ≈ 37'43	27°12'45
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desc. node 11708 Jun 08 01:00 1°I3906 min. Earth dist. 11709 May 03 06:04 19°807:55 0.68752 M2 morning max of 1708 Jun 29 21:06 0°25 0°25 direct 11709 May 08 12:00 12°048483 12°048483 morning set 11708 Jul 18 09:25 22°252859 morning max el 11709 May 22 13:21 16°21525 22°0203 max. Earth dist. 11708 Jul 18 09:25 0°2 139156 AU desc. node 11709 May 22 13:21 16°21525 22°0203 superior conj 11708 Jul 25 18:41 13°20304 1°0136 morning set 11709 Jun 21 10:02 21:03 0°2 superior conj 11708 Aug 03 11:47 26°21152 18:09 10°10 max. Earth dist. 11709 Jun 20 10:10 2°252709 17:3418 14:1423 AU evening rise 11708 Aug 03 11:47 26°21152 18:4033 minimum elong 11709 Jul 07 17:58 24°25054 13:4085 evening rise 11708 Aug 03 01:14 27°80455 18°4403 minimum elong 11709 Jul 07 17:58 24°25054 13:4085 16°20155 18°40755 <td>direct</td> <td>11708 May 29 10:17</td> <td>26°818'31</td> <td></td> <td>inferior conj</td> <td>11709 May 03 08:29</td> <td>18°859'29</td> <td>2°50'35</td>	direct	11708 May 29 10:17	26° 8 18'31		inferior conj	11709 May 03 08:29	18° 8 59'29	2°50'35
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Superior conj 11708 Jul 18 09:26 0°A 1708 Jul 18 09:26 1708 Jul 25 14:31 13°β030'4 10'136 11709 Jul 24 10'126 2°9270'5 1708 Jul 25 14:31 13°β030'4 10'130 10'130 10'130 11709 Jul 24 10'12 2°9270'5 14123 11709 Jul 26 11709 Jul 27 10'128 11709 Jul 27 17:58 2°9270'5 14123 14123 14123 1709 Jul 27 17:58 2°9270'5 14123 14123 14123 1709 Jul 27 17:58 2°9270'5 14123 1709 Jul 27 17:58 2°9270'5 14123 1709 Jul 27 10'130 18 00'122 2°9270'5 14123 1709 Jul 27 0'134 18 0'10'130 18	•	11708 Jul 18 00:23	29°\$20'24	1.39156 AU	-		19° 8 54'42	
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retrograde	o vonning man or	-		10 1105	evening rise			
Pevening set 11708 Aug 30 06:17 1°\$\text{\$\text{\$\cupen 0}\$ 11708 Aug 30 06:17 1°\$\text{\$\cupen 0}\$ 11708 Sep 02 02:23 30°\$\text{\$\cupen 0}\$ evening max el 11709 Aug 03 09:01 9°\$\text{\$\cupen 0}\$ 40'48 18°14'02	retrograde				Č			
11708 Sep 02 02:23 30°Rm evening max el 11709 Aug 03 09:01 9°m40'48 18°14'02 desc. node 11708 Sep 03 22:56 28°m58'06 retrograde 11709 Aug 10 13:27 13°m19'06 inferior conj 11708 Sep 07 08:01 26°m38'00 -1°03'30 evening set 11709 Aug 10 13:27 13°m19'06 minimum elong 11708 Sep 07 05:24 26°m34'249 1902'35 inferior conj 11709 Aug 20 01:22 8°m15'35 0°32'30 minimim elong 11708 Sep 10 11:04 24°m20'34 0.57012 AU minimum elong 11709 Aug 20 01:22 8°m15'35 0°31'45 morning rise 11708 Sep 10 11:04 24°m20'34 0.57012 AU minimum elong 11709 Aug 20 02:27 8°m13'15 0°31'45 morning max el 11708 Sep 10 11:04 24°m36'10 46esc. node 11709 Aug 21 02:18 6°m2'233 direct 11708 Sep 20 19:28 20°m15'04 minimum elong 11709 Aug 21 02:18 6°m2'233 morning max el 11708 Oct 07 08:41 0°\overline{\text{0}} \ 20°m15'04 0°\overline{\text{0}} \ 40'm2 40	•	•			use. node			
desc. node 11708 Sep 03 22:56 28°m/58'06 retrograde 11709 Aug 10 13:27 13°m/19'06 retrograde 11709 Aug 20 10:22 8°m/19'15 032'30 retrograde 11709 Aug 20 10:22 8°m/19'15 03'145 retrograde 11709 Aug 20 10:22 20'18 11709 Aug 20 10:22 20'18 11709 Aug 20 10:22 20'18 11709 Aug 20 10:23 20'19 Aug 20'19 Aug 20 10:23 20'19	evening sec	•			evening max el			18°14'02
minferior conj 11708 Sep 07 08:01 26°m38'00 -1°03'30 evening set 11709 Aug 12 18:40 12°m58'57 0°32'30 min Earth dist. 11708 Sep 10 11:04 24°m20'34 0.57012 AU minimum elong 11709 Aug 20 01:22 8°m15'35 0°32'30 min. Earth dist. 11708 Sep 10 11:04 24°m20'34 0.57012 AU minimum elong 11709 Aug 20 02:27 8°m13'15 0°31'45 morning rise 11708 Sep 15 01:07 21°m36'10 desc. node 11709 Aug 21 20:18 6°m42'33 direct 11708 Sep 20 19:28 20°m15'04 min. Earth dist. 11709 Aug 23 09:26 5°m24'21 0.59105 AU morning max el 11708 Oct 05 02:13 27°m41'03 26°30'48 morning rise 11709 Aug 27 06:49 2°m39'17 11708 Oct 07 08:41 0°	desc node	-			•	•		10 1102
minimum elong		*		-1°03'30	•	Č	-	
min. Earth dist.	·	*			•	•		0°32'30
Morning rise 11708 Sep 15 01:07 21° 1936'10 desc. node 11709 Aug 21 20:18 6° 1942'3 0.59105 AU Mirct 11708 Sep 20 19:28 20° 19:18 20° 1915'04 min. Earth dist. 11709 Aug 23 09:26 5° 1924'21 0.59105 AU Morning max el 11708 Oct 05 02:13 27° 1941'03 26° 30'48 morning rise 11709 Aug 27 06:49 2° 1939'17 11708 Oct 07 08:41 0° 1	C	_					~	
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morning max el 11708 Oct 05 02:13 27° Mp41'03 26°30'48 morning rise 11709 Aug 27 06:49 2° Mp39'17 11708 Oct 07 08:41 0° \(\Omega\) direct 11709 Sep 02 14:59 0° Mp49'11 asc. node 11708 Oct 27 07:50 0° Mc morning max el 11709 Sep 16 23:37 8° Mp36'40 27°33'05 asc. node 11708 Nov 03 02:40 13° Mc45'06 asc. node 11709 Oct 03 06:57 0° \(\Omega\) morning set 11708 Nov 03 02:40 13° Mc45'06 morning set 11709 Oct 15 09:44 21° \(\Omega\) 28° \(\Omega\) 13° Mc45'06 morning set 11709 Oct 18 09:57 28° \(\Omega\) 10'54 superior conj 11708 Nov 09 21:33 28° Mc40'14 1° 34'54 11709 Oct 19 06:31 0° Mc49'11 1709 Nov 09 21:33 28° Mc40'14 1° 34'54 11709 Nov 10 11:53 0° \(\omega\) superior conj 11708 Nov 10 13:00 0° \(\omega\) 06'15 1.31545 AU minimum elong 11709 Oct 25 08:32 13° Mc20'23 1° 24'10 max. Earth dist. 11708 Nov 16 20:24 13° \(\omega\) 50'51 1 max. Earth dist. 11709 Nov 01 03:59 28° Mc20'38 desc. node 11708 Nov 30 20:14 10° \(\omega\) 60'60'3 10° \(\omega\) evening rise 11709 Nov 01 03:59 28° Mc20'38 desc. node 11708 Nov 30 20:14 10° \(\omega\) 60'60'3 1	•	-	-			•	-	0.59105 ATT
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		11/08 Dec 15 11:32	U∵æ		desc. node	11/09 Nov 17 17:23	28° × ′53′23	

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	11709 Nov 18 11:12	ე∘ჳ		evening max el	11710 Nov 11 16:59	24° ₹ 755'34	24°56'18
evening max el	11709 Nov 30 01:35	ਾਤ 14° ਤ 11'38	26°19'17	evening max er	11710 Nov 18 12:52	0°중	24 30 10
retrograde	11709 Nov 30 01:33	14 3 11 38	20 1917	retrograde	11710 Nov 18 12:32 11710 Nov 25 12:37	0 0 1° る 50'58	
evening set	11709 Dec 14 00.00 11709 Dec 20 11:45	19° る 35'23		evening set	11710 Nov 23 12.37 11710 Dec 01 02:35	1 03038 0°る41'09	
•	11709 Dec 20 11:43 11709 Dec 24 14:59		0.58649 AU	evening set		0 041 09 30°R 🗷	
min. Earth dist.		16 3 3933		i. Fauth diat	11710 Dec 02 15:10	•	0.56716 AII
inferior conj	11709 Dec 27 18:17			min. Earth dist.	11710 Dec 06 04:52		0.56716 AU
minimum elong	11709 Dec 28 02:33	14°る24'10	4°19'26	inferior conj	11710 Dec 08 20:42	26° ₹ 13'49	
morning rise	11710 Jan 04 20:09	10°る09'52		minimum elong	11710 Dec 09 03:28	26° ₹ 02'49	5°22'43
direct	11710 Jan 06 22:46	9° る 54'45		morning rise	11710 Dec 17 06:33	22° х 05'42	
asc. node	11710 Jan 11 09:36	11°る06'11		direct	11710 Dec 19 15:09	21° х 50'00	
morning max el	11710 Jan 15 02:10	13°る54'26	18°27′18	morning max el	11710 Dec 29 01:38	26° ₹ '22'18	19°19'15
	11710 Jan 26 00:51	0° ≈		asc. node	11710 Dec 29 06:42	26° ∡ ³34'40	
morning set	11710 Jan 30 23:43	9° ≈ 19'34			11711 Jan 01 07:25	0°ਰ	
				morning set	11711 Jan 15 01:13	23° ප් 46'13	
superior conj	11710 Feb 09 01:21	26° ≈ 31'37			11711 Jan 18 03:55	0° ≈	
minimum elong	11710 Feb 09 03:44	26° ≈ 42'37	0°36'08				
	11710 Feb 10 22:54	0° ∀		superior conj	11711 Jan 23 04:31	9° ≈ 56′10	1°02'49
desc. node	11710 Feb 13 17:11	4° ¥ 56'53		minimum elong	11711 Jan 23 07:29	10° ≈ 10'31	1°03'03
max. Earth dist.	11710 Feb 16 12:41	9° ⊁ 51'33	1.40505 AU	max. Earth dist.	11711 Jan 29 18:51	22° ≈ 21'17	1.38287 AU
evening rise	11710 Feb 20 20:42	17° ∺ 10′37		desc. node	11711 Jan 31 13:54	25° ≈ 34'59	
	11710 Feb 28 21:14	0° Y		evening rise	11711 Feb 02 12:49	29° ≈ 01'43	
	11710 Mar 22 10:38	8° 0			11711 Feb 03 02:13	0° ℋ	
evening max el	11710 Mar 27 08:41	5° 8 24'28	23°36'19		11711 Feb 22 06:21	0 ° Υ	
retrograde	11710 Apr 07 03:29	11° 8 45'53		evening max el	11711 Mar 09 22:18	19° Ƴ 15′27	24°55'01
asc. node	11710 Apr 09 07:03	11° 8 24'19		retrograde	11711 Mar 21 18:17	26° Ƴ 08'32	
evening set	11710 Apr 12 07:32	9° 8 35'44		evening set	11711 Mar 27 10:16	23° Ƴ 46'49	
min. Earth dist.	11710 Apr 17 02:47	3° 8 58'28	0.68619 AU	asc. node	11711 Mar 27 04:23	23° Y 59'03	
inferior conj	11710 Apr 17 17:31	3° 8 07'57	2°22'54	min. Earth dist.	11711 Mar 31 21:47	18° Ƴ 45′00	0.68053 AU
minimum elong	11710 Apr 17 15:22	3° 8 15'19	2°22'00	inferior conj	11711 Apr 02 00:35	17° Ƴ 16′38	1°45'32
	11710 Apr 20 02:24	30° ₹Ƴ		minimum elong	11711 Apr 01 22:31	17° Ƴ 23'25	1°44'43
morning rise	11710 Apr 22 23:11	27° Y '03'11		morning rise	11711 Apr 07 11:01	11° Y 19'56	
direct	11710 Apr 27 03:48	25° Y °24′24		direct	11711 Apr 11 03:21	10° Ƴ 02'06	
	11710 May 05 06:05	9° 8		morning max el	11711 Apr 18 09:01	14° Ƴ 02'25	19°34'08
morning max el	11710 May 05 07:24	0° 8 03'14	20°41'34	desc. node	11711 Apr 29 15:26	28° Ƴ 29'05	
desc. node	11710 May 12 18:42	8° 8 55'25			11711 Apr 30 16:24	0°B	
	11710 May 27 10:31	0°II		greatest brilliancy	11711 May 01 01:26	0° 8 33'08	-0.7m
morning set	11710 Jun 03 20:47	11° Ⅱ 22'01		morning set	11711 May 13 20:32	19° 8 54'02	
max. Earth dist.	11710 Jun 12 06:38		1.43393 AU	Č	11711 May 20 09:06	0°II	
	11710 Jun 15 13:03	0ං ම		max. Earth dist.	11711 May 25 19:52		1.44845 AU
					, .,		
superior conj	11710 Jun 18 23:05	5° © 39'57	-2°00'08	superior conj	11711 May 30 04:11	15° Ⅱ 27'59	-2°12'57
minimum elong	11710 Jun 19 05:17	6°€05'53	2°00'29	minimum elong	11711 May 30 05:38	15° Ⅱ 33'49	
evening rise	11710 Jul 01 03:12	26°540'36	2 00 2	g	11711 Jun 08 02:22	0ಂಣ	2 13 3 ,
o voiming rise	11710 Jul 03 00:24	0° Ω		evening rise	11711 Jun 13 02:01	8°9518'42	
asc. node	11710 Jul 06 05:29	5° Ω 37'26		asc. node	11711 Jun 23 02:26	24°953'11	
evening max el	11710 Jul 17 21:47	22° Ω 46'24	18°03'45	use. Itsue	11711 Jun 26 11:35	0°Ω	
retrograde	11710 Jul 24 11:04	26°Ω08'53	10 03 43	evening max el	11711 Jul 01 11:51	6° Ω 11'22	18°12'10
evening set	11710 Jul 27 00:21	25° Ω 37'47		retrograde	11711 Jul 07 20:22	9° Ω 32'37	10 12 10
inferior conj	11710 Aug 02 14:15	20°Ω34'51	1°44'23	evening set	11711 Jul 10 17:50	8° Ω 48'00	
minimum elong	11710 Aug 02 14:19	20° Ω 28'30	1°43'03	inferior conj	11711 Jul 16 18:37		2°32'54
min. Earth dist.	11710 Aug 02 16:49	17° Ω 32'18	0.61385 AU	minimum elong	11711 Jul 16 18:37	3° Ω 20'09	2°31'39
desc. node	11710 Aug 03 10.23	$14^{\circ}\Omega57'12$	0.01363 AU	min. Earth dist.	11711 Jul 10 21:00	0° Ω 35'11	0.63575 AU
morning rise	11710 Aug 08 17.37 11710 Aug 09 06:42	$14^{\circ} \Omega 34'11$		iiiii. Latui dist.	11711 Jul 19 08.32	0 8€ 33 11	0.03373 AU
direct	11710 Aug 09 00.42 11710 Aug 15 22:23	$12^{\circ}\Omega 17'51$		marnina rica	11711 Jul 19 21:49 11711 Jul 22 22:48	27°9512'12	
	Č		27957120	morning rise			
morning max el	11710 Aug 30 03:43	20° Ω 17'34	21-31/29	desc. node	11711 Jul 26 14:55	25°©08'21 24°©37'48	
	11710 Sep 07 11:55	0° m)		direct	11711 Jul 29 15:05		
	11710 Sep 26 06:13	0° ⊽			11711 Aug 09 16:23	0°Ω	27044100
asc. node	11710 Oct 02 06:27	11° △ 49'49		morning max el	11711 Aug 12 12:24	2° Ω 39'35	2/~44'00
morning set	11710 Oct 02 12:13	12° ₽ 19'34	1 21 655 133		11711 Sep 01 20:55	0° m/y	
max. Earth dist.	11710 Oct 08 04:57	24° ≏ 28'37	1.31655 AU	morning set	11711 Sep 16 07:08	26° Mp 04'08	
				_	11711 Sep 18 05:45	0° ⊽	
superior conj	11710 Oct 09 20:52	28° ₾ 08'03	1°08'30	asc. node	11711 Sep 19 03:09	1° ⊆ 50'07	1 00 10 - : -:
minimum elong	11710 Oct 09 18:37		1°08'26	max. Earth dist.	11711 Sep 21 06:07	6° ≙ 17'00	1.32485 AU
	11710 Oct 10 17:07	0°M,					
evening rise	11710 Oct 16 14:25	12°M56'14		superior conj	11711 Sep 24 03:54	12° ≙ 30'45	0°47'31
	11710 Oct 25 01:53	0° ∡ ¹		minimum elong	11711 Sep 24 01:54	12° ≙ 19'58	0°47'14
desc. node	11710 Nov 04 14:37	16° ∡ ¹46′24		evening rise	11711 Oct 01 01:47	27° △ 31'23	

desc. node	11711 Oct 02 05:42 11711 Oct 19 13:59 11711 Oct 22 11:55	0° M 0° ⊀ 3° ⊀ 23'42		evening rise evening max el	11712 Sep 14 12:13 11712 Sep 23 16:29 11712 Oct 04 17:30	12° Ω 01'21 0° M 15° M 13'48	21°37'58
evening max el	11711 Oct 24 03:27	5° ∡ 104'40	23°16'40	desc. node	11712 Oct 08 09:16	18° ™ 19'06	
retrograde	11711 Nov 06 11:51	11° ∡ ¹43'26		retrograde	11712 Oct 17 01:12	21°M21'23	
evening set	11711 Nov 10 17:44	11° ∡ ¹04'19		evening set	11712 Oct 19 21:37	21°M02'54	
min. Earth dist.	11711 Nov 17 13:06	7° ∡ ¹53'53	0.55272 AU	inferior conj	11712 Oct 28 20:45	17° M 07'06	-5°21'21
inferior conj	11711 Nov 19 03:15	6° ∡ ¹58'27	-5°50'37	minimum elong	11712 Oct 28 12:46	17° M 18'16	5°19'27
minimum elong	11711 Nov 19 03:15	6° ₰ 758'27	5°49'58	min. Earth dist.	11712 Oct 28 19:38	17°M08'39	0.54596 AU
morning rise	11711 Nov 27 14:28	3° ₹ 07'22		morning rise	11712 Nov 06 04:59	13°M19'05	
direct	11711 Nov 30 12:44	2° х 46'49		direct	11712 Nov 09 21:47	12°M49'23	
morning max el	11711 Dec 11 11:45		20°34'17	morning max el	11712 Nov 22 08:22	18°M44'52	22°10'05
asc. node	11711 Dec 16 03:45	13°ズ18'30 0°る		1-	11712 Dec 01 08:56	0°⊀ 1°⊀01'45	
morning set	11711 Dec 26 03:45 11711 Dec 30 08:26	8° る 26'23		asc. node morning set	11712 Dec 02 00:44 11712 Dec 13 18:55	23°×12'51	
morning set	11/11 Dec 30 00.20	6 O 2023		morning set	11712 Dec 16 23:29	0°る	
superior conj	11712 Jan 06 20:14	23° る 54'52	1°21'54		11/12 Dec 10 23.2)	ů O	
minimum elong	11712 Jan 06 22:43	24° ට 07'30	1°22'22	superior conj	11712 Dec 20 20:49	8° ප 17'10	1°33'42
C	11712 Jan 09 21:00	0° ≈		minimum elong	11712 Dec 20 22:19	8° る 25'03	1°34'23
max. Earth dist.	11712 Jan 12 02:56	4° ≈ 23'23	1.36147 AU	max. Earth dist.	11712 Dec 24 16:56	16° る 15'58	1.34291 AU
evening rise	11712 Jan 15 23:50	11° ≈ 40'55		evening rise	11712 Dec 29 02:11	24° る 58'46	
desc. node	11712 Jan 18 10:42	16° ≈ 07'27			11712 Dec 31 17:42	0° ≈	
	11712 Jan 26 15:29	0° ∀		desc. node	11713 Jan 04 07:35	6° ≈ 29'37	
	11712 Feb 17 12:13	0° Υ			11713 Jan 19 03:33	0° ∀	
evening max el	11712 Feb 20 11:54	3° Y ′05′30	26°04'40	evening max el	11713 Feb 02 01:26	16°) (46′10	26°57'59
retrograde	11712 Mar 04 04:11	10° Y 19′09		retrograde	11713 Feb 15 08:26	24°) (09'46	
evening set	11712 Mar 10 07:49	7° Υ 49'13		evening set	11713 Feb 21 22:17	21°) €36′28	0.65701.444
asc. node min. Earth dist.	11712 Mar 13 01:43	5° Υ 06'16 3° Υ 22'28	0.67072 AU	min. Earth dist. asc. node	11713 Feb 25 21:44 11713 Feb 27 23:04	17°) 43'37 15°) 22'11	0.65701 AU
inferior conj	11712 Mar 14 12:50 11712 Mar 16 03:43	3 1 22 28 1° Υ 21'41	0.67072 AU 0°58'24	inferior conj	11713 Feb 27 23:04 11713 Feb 28 00:40	15° H 17'34	0°01'18
minimum elong	11712 Mar 16 03:43	1° Υ 26'02	0°57'56	minimum elong	11713 Feb 28 00:40 11713 Feb 28 00:38	15°) (17'34'	0°01'33
minimum ciong	11712 Mar 10 02:19	30° R ₩	0 37 30	transit middle	11713 Feb 28 00:38	15°) 17'42	0°01'33
morning rise	11712 Mar 21 21:31	25°) 34'51		transit begin	11713 Feb 27 21:40	15°) 26'14	0 01 33
direct	11712 Mar 25 02:39	24°) 36'07		transit end	11713 Feb 28 03:35	15°) (09'12	
morning max el	11712 Mar 31 18:07	28° ¥ 10'45	18°42'22	morning rise	11713 Mar 06 04:20	9°) 42'41	
-	11712 Apr 02 11:24	0° Y		direct	11713 Mar 08 23:34	9°) €00'02	
desc. node	11712 Apr 15 12:09	18° Ƴ 27'03		morning max el	11713 Mar 15 08:47	12° ¥ 21'40	18°07'11
morning set	11712 Apr 22 08:59	29° Ƴ 09'22			11713 Mar 27 23:37	0 ° Υ	
	11712 Apr 22 21:56	0°B		desc. node	11713 Apr 02 08:49	8° Y ′42'14	
max. Earth dist.	11712 May 07 14:07	22° 8 55'46	1.45622 AU	morning set	11713 Apr 03 00:35	9° Y 46′09	
	1151011 00 15 01	0.401.4004.0	2006140		11713 Apr 15 15:39	0°8	
superior conj	11712 May 08 15:01	24° 8 33'12			11712 4 17 22 55	20022122	1040151
minimum elong	11712 May 08 08:57 11712 May 12 02:21	24° ႘ 09'27 0°Ⅱ	2°06'58	superior conj minimum elong	11713 Apr 17 22:55 11713 Apr 17 13:31	3° 8 37'37 3° 8 00'41	1°40'51
evening rise	11712 May 12 02:21 11712 May 24 00:59	18° Ⅱ 56'53		max. Earth dist.	11713 Apr 17 13.31 11713 Apr 20 10:09	7° 8 29'49	1.45656 AU
evening rise	11712 May 24 00:39	0°9		evening rise	11713 May 04 01:29	28° 8 42'25	1.43030 AC
greatest brilliancy	11712 May 30 22:40	0° © 13'19	-0.9m	evening rise	11713 May 04 01:23	0°Ⅱ	
asc. node	11712 Jun 08 23:29	13°9542'11		greatest brilliancy	11713 May 16 11:14	17° Ⅱ 44'19	-0.7m
evening max el	11712 Jun 14 00:13	19°5548'17	18°38'30		11713 May 25 05:48	0 \circ \odot	
retrograde	11712 Jun 20 13:18	23° © 22'07		asc. node	11713 May 26 20:35	1° 9 54'42	
evening set	11712 Jun 23 19:01	22°522'24		evening max el	11713 May 28 08:27	3° © 30'28	19°21'50
inferior conj	11712 Jun 29 10:34	16° 5 °45'17	3°01'39	retrograde	11713 Jun 04 10:27	7° 5 29'22	
minimum elong	11712 Jun 29 12:11	16°9540'18	3°00'40	evening set	11713 Jun 08 00:51	6° © 13'48	
min. Earth dist.	11712 Jul 01 09:52	14°920'45	0.65476 AU	inferior conj	11713 Jun 13 10:35	0°522'08	3°14'22
morning rise	11712 Jul 05 04:29	10°524'01		minimum elong	11713 Jun 13 11:07	0°\$20'26	3°13'34
direct	11712 Jul 11 15:36	7°541'53		t materia	11713 Jun 13 17:20	30°RⅡ	0.660=0.444
desc. node	11712 Jul 12 12:08	7°944'27	26057150	min. Earth dist.	11713 Jun 14 19:05	28° ∏ 35'43	0.66979 AU
morning max el	11712 Jul 24 23:17 11712 Aug 05 19:51	15° © 33'57 0° Ω	20-5/30	morning rise direct	11713 Jun 18 20:54 11713 Jun 24 22:50	23° П 59'56 21° П 20'07	
	11/12 Aug 05 19:51 11712 Aug 24 15:50	0° m y		desc. node	11/13 Jun 24 22:30 11713 Jun 29 09:17	21°Щ2007 22°Щ29'38	
morning set	11712 Aug 24 15:50 11712 Aug 29 15:53	9° Mp 18'07		morning max el	11713 Jul 07 10:04	22 H 2938 28° H 48'02	25°47'17
max. Earth dist.	11712 Nug 25 13:35	17° m) 42'50	1.33828 AU		11713 Jul 08 13:46	0°95	
asc. node	11712 Sep 02 22:21 11712 Sep 04 23:52	21° m ₂ 55'10			11713 Jul 30 14:48	$0 {\circ} \Omega$	
	1	• •		morning set	11713 Aug 12 10:47	21° Ω 51'59	
superior conj	11712 Sep 07 05:28	26° Mp 34'01	0°21'34	max. Earth dist.	11713 Aug 16 04:16	28° Ω 49'59	1.35641 AU
minimum elong	11712 Sep 07 04:22	26° Mp 28'17			11713 Aug 16 18:54	0° m	
	11712 Sep 08 20:30	0∘ ⊽					

superior conj	11713 Aug 21 22:51	10° mp 10'43	0000144	morning set	11714 Jul 25 11:14	3° Ω 33'50	
	•	-		•		9° Ω 59'15	1 27017 AII
minimum elong	11713 Aug 21 23:23	10° Mp 13'26	0°08'56	max. Earth dist.	11714 Jul 29 02:24	9-8639-13	1.37817 AU
behind sun begin	11713 Aug 21 18:13	9° Mp 47'20			11714 4 05 04 45	220 0 12122	0041150
behind sun end	11713 Aug 22 04:34	10° mp 39'34		superior conj	11714 Aug 05 04:45	23° Ω 12'33	
asc. node	11713 Aug 22 20:36	12° m 00'51		minimum elong	11714 Aug 05 07:35	23° Ω 26'10	0°41′59
evening rise	11713 Aug 29 19:35	26° m 19'58		,	11714 Aug 08 16:25	0° Mp	
	11713 Aug 31 14:42	0∘ ⊽	2001.006	asc. node	11714 Aug 09 17:21	2° m, 03'09	
evening max el	11713 Sep 16 19:31	25° ♀ 57'12	20°14'06	evening rise	11714 Aug 13 21:22	10° m/20'15	
	11713 Sep 22 05:34	0°M			11714 Aug 24 15:33	0∘ ⊽	
desc. node	11713 Sep 25 06:37	1°M04'06		evening max el	11714 Aug 30 11:28	7° ≏ 27'44	19°10'49
retrograde	11713 Sep 27 14:01	1°M18'26		retrograde	11714 Sep 08 13:57	12° ≏ 00'06	
evening set	11713 Sep 29 14:10	1°ML08'07		evening set	11714 Sep 10 10:15	11° ≏ 49'41	
	11713 Oct 03 07:24	30° ₽ Ω		desc. node	11714 Sep 12 04:01	11° ≏ 21'58	
inferior conj	11713 Oct 08 14:41	27° ≏ 10′20		inferior conj	11714 Sep 18 22:28	7° ≏ 38'21	
minimum elong	11713 Oct 08 04:59	27° ≏ 24'42		minimum elong	11714 Sep 18 16:55	7° ≏ 47'41	2°04'53
min. Earth dist.	11713 Oct 10 04:05	26° ≙ 14'57	0.54849 AU	min. Earth dist.	11714 Sep 21 16:23	5° ≏ 47'54	0.56011 AU
morning rise	11713 Oct 16 18:54	23° ≏ 04'04		morning rise	11714 Sep 26 20:44	2° ≏ 58'20	
direct	11713 Oct 21 07:35	22° ≏ 19'43		direct	11714 Oct 02 05:09	1° ≏ 52'08	
morning max el	11713 Nov 03 20:29	28° ≏ 56'49	23°57'28	morning max el	11714 Oct 16 07:53	9° ഫ 03'07	25°40'31
	11713 Nov 04 22:26	0°M₊			11714 Nov 01 00:19	0° M	
asc. node	11713 Nov 18 21:40	19°M30'25		asc. node	11714 Nov 05 18:32	8°M32'26	
	11713 Nov 24 10:27	0° ∡		morning set	11714 Nov 12 18:08	22°M42'26	
morning set	11713 Nov 28 06:45	8° ∡ ¹00′10			11714 Nov 16 02:29	0° ∡ ¹	
superior conj	11713 Dec 05 03:22	22° ∡ 54'36	1°38'47	superior conj	11714 Nov 19 13:25	7° ∡ ³39′02	1°37'41
minimum elong	11713 Dec 05 03:42	22° ₹ 56′26	1°39'33	minimum elong	11714 Nov 19 12:40	7° ∡ ³34'52	1°38'20
max. Earth dist.	11713 Dec 07 14:42	28° ∡ 14'30	1.32850 AU	max. Earth dist.	11714 Nov 20 19:11	10° ∡ ¹23'25	1.31880 AU
	11713 Dec 08 10:31	ರ°ರ		evening rise	11714 Nov 26 15:16	22° ∡ 56′13	
evening rise	11713 Dec 12 16:22	8° පි 46'51			11714 Nov 30 02:53	0°₹	
desc. node	11713 Dec 22 04:32	26° පි 36'10		desc. node	11714 Dec 09 01:32	16° る 19'29	
	11713 Dec 24 04:18	0° ≈			11714 Dec 17 23:57	0° ≈	
	11714 Jan 15 10:59	0° ∀		evening max el	11714 Dec 28 23:38	12° ≈ 55'49	27°28'00
evening max el	11714 Jan 15 13:58	0°) €07'08	27°27'52	retrograde	11715 Jan 11 20:44	20° ≈ 14′07	
retrograde	11714 Jan 29 06:20	7° ∺ 31'32		evening set	11715 Jan 18 20:06	17° ≈ 56'16	
evening set	11714 Feb 05 03:21	5° ₩ 01'45		min. Earth dist.	11715 Jan 22 13:42	15° ≈ 00′24	0.62000 AU
min. Earth dist.	11714 Feb 08 22:35	1°) 40′00	0.63984 AU	inferior conj	11715 Jan 25 13:11	12° ≈ 15'12	-2°20'22
	11714 Feb 10 13:17	30° R ≈		minimum elong	11715 Jan 25 17:58	12° ≈ 04'06	2°17'52
inferior conj	11714 Feb 11 12:51	28° ≈ 58'12	-1°05'27	morning rise	11715 Feb 01 18:30	7° ≈ 11'54	
minimum elong	11714 Feb 11 14:55	28° ≈ 52'50	1°04'09	asc. node	11715 Feb 01 17:38	7° ≈ 12'35	
asc. node	11714 Feb 14 20:22	25° ≈ 46′00		direct	11715 Feb 03 23:29	6° ≈ 50′20	
morning rise	11714 Feb 18 04:35	23° ≈ 37'42		morning max el	11715 Feb 10 19:21	10° ≈ 18'14	17°48'44
direct	11714 Feb 20 15:34	23° ≈ 07'31			11715 Feb 23 21:43	0° ∀	
morning max el	11714 Feb 27 02:16	26° ≈ 27'19	17°49'06	morning set	11715 Feb 26 13:57	4°) 45′40	
	11714 Mar 02 04:24	0° ∀		desc. node	11715 Mar 07 02:08	19°) 44'45	
morning set	11714 Mar 15 20:10	21°) 44′25					
desc. node	11714 Mar 20 05:30	29°) €09'44		superior conj	11715 Mar 09 19:42	24° ¥ 25′03	-0°20'53
	11714 Mar 20 17:28	0° Y		minimum elong	11715 Mar 09 17:43	24° ¥ 16′39	0°20'25
					11715 Mar 13 03:36	0° Y	
superior conj	11714 Mar 28 21:28	13° Y 27'43	-1°02'28	max. Earth dist.	11715 Mar 16 21:01	6° Y 06′26	1.43600 AU
minimum elong	11714 Mar 28 14:52	13° Y ′00'59	1°01'40	evening rise	11715 Mar 24 04:41	17° Ƴ 43'08	
max. Earth dist.	11714 Apr 03 05:04	21° Y ′58′04	1.44957 AU		11715 Apr 01 06:03	$_{0\circ}$ 8	
	11714 Apr 08 07:58	$0^{\circ}B$			11715 Apr 23 09:00	Π°	
evening rise	11714 Apr 13 13:33	8° 8 04'34		evening max el	11715 Apr 24 08:30	1° Ⅱ 00'57	21°31'17
	11714 Apr 28 04:27	$\Pi^{\circ}0$		asc. node	11715 Apr 30 14:57	5° Ⅱ 42'00	
evening max el	11714 May 11 11:14	17° Ⅱ 14'54	20°20'25	retrograde	11715 May 03 07:32	6° Ⅱ 16′33	
asc. node	11714 May 13 17:45	19° Ⅱ 19'20		evening set	11715 May 07 17:45	4° Ⅲ 29'04	
retrograde	11714 May 19 09:12	21° Ⅱ 49′02			11715 May 11 17:23	30°₽ ႘	
evening set	11714 May 23 09:02	20° Ⅱ 17'23		inferior conj	11715 May 13 00:16	28° 8 13'31	3°02'03
inferior conj	11714 May 28 15:56	14° Ⅱ 12'49	3°13'51	minimum elong	11715 May 12 22:51	28° 8 18'27	3°01'14
minimum elong	11714 May 28 15:23	14° Ⅱ 14'42	3°13'06	min. Earth dist.	11715 May 13 05:17	27° 8 56'03	0.68627 AU
_	11/11/11/4y 20 13.23		0.68037 AU	morning rise	11715 May 18 03:45	21° 8 58'42	
min. Earth dist.	11714 May 29 10:17	13° Ⅱ 10′02	0.0003 / AU		11/10 11145 10 00.10		
min. Earth dist. morning rise	•	13°Щ10'02 7°Щ53'13	0.06037 AU	direct	11715 May 23 05:09	19° 8 46'51	
	11714 May 29 10:17		0.08037 AO	•	•		22°52'15
morning rise	11714 May 29 10:17 11714 Jun 02 21:26	7° Ⅱ 53'13	0.08037 AU	direct	11715 May 23 05:09	19° 8 46'51	22°52'15
morning rise direct	11714 May 29 10:17 11714 Jun 02 21:26 11714 Jun 08 11:44	7° П 53'13 5° П 24'15		direct morning max el	11715 May 23 05:09 11715 Jun 02 06:21	19° 8 46'51 25° 8 44'05	22°52'15
morning rise direct desc. node	11714 May 29 10:17 11714 Jun 02 21:26 11714 Jun 08 11:44 11714 Jun 16 06:21	7° П 53'13 5° П 24'15 8° П 56'11		direct morning max el	11715 May 23 05:09 11715 Jun 02 06:21 11715 Jun 03 03:20	19° 8 46'51 25° 8 44'05 26° 8 38'07	22°52'15
morning rise direct desc. node	11714 May 29 10:17 11714 Jun 02 21:26 11714 Jun 08 11:44 11714 Jun 16 06:21 11714 Jun 19 19:53	7°Д53'13 5°Д24'15 8°Д56'11 12°Д12'17		direct morning max el	11715 May 23 05:09 11715 Jun 02 06:21 11715 Jun 03 03:20 11715 Jun 06 03:33	19°846'51 25°844'05 26°838'07 0°Ⅲ	22°52'15

11717 May 24 02:40

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11716 Jun 19 10:31

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morning set	11717 May 25 14:44	2° Ⅱ 18'41		max. Earth dist.	11718 May 18 03:56	1° Ⅱ 57'11	1.45263 AU
max. Earth dist.	11717 Jun 04 12:42	17° Ⅱ 51'36	1.44090 AU				
				superior conj	11718 May 21 04:23	6° Ⅱ 42'41	
superior conj	11717 Jun 10 08:20	27° Ⅱ 16′28		minimum elong	11718 May 21 02:37	6° Ⅱ 35'43	2°13'28
minimum elong	11717 Jun 10 13:07	27° Ⅱ 36′08	2°08'08	evening rise	11718 Jun 04 19:07	0°917'21	
	11717 Jun 12 00:03	0ಂತಾ			11718 Jun 04 14:54	0ಂತಾ	
evening rise	11717 Jun 23 06:11	19° 5 04'30		asc. node	11718 Jun 17 04:50	20°©16'27	
_	11717 Jun 29 14:57	0 \circ Ω		evening max el	11718 Jun 24 04:21	29° © 17'04	18°21'14
asc. node	11717 Jun 30 07:50	1° Ω 10'54			11718 Jun 24 22:29	$0 \circ \Omega$	
evening max el	11717 Jul 10 14:42	15° Ω 46'07	18°05'00	retrograde	11718 Jun 30 13:54	2° Ω 42'16	
retrograde	11717 Jul 17 00:53	19° Ω 06'43		evening set	11718 Jul 03 14:45	1° £ 51′34	
evening set	11717 Jul 19 17:34	18° Ω 30'11			11718 Jul 06 02:33	30°Rூ	
inferior conj	11717 Jul 26 01:24	13° Ω 19'09	2°07'39	inferior conj	11718 Jul 09 11:10	26° © 23'44	
minimum elong	11717 Jul 26 04:04	13° Ω 12'09	2°06'17	minimum elong	11718 Jul 09 13:21	26° © 17'23	2°46'07
min. Earth dist.	11717 Jul 28 22:43	10° Ω 18'43	0.62343 AU	min. Earth dist.	11718 Jul 11 19:06	23° © 41'26	0.64425 AU
morning rise	11717 Aug 01 12:24	7° Ω 10'57		morning rise	11718 Jul 15 10:40	20° © 05'04	
desc. node	11717 Aug 02 20:06	6° Ω 19'06		desc. node	11718 Jul 20 17:23	17° © 31'57	
direct	11717 Aug 08 04:54	4° Ω 45'55		direct	11718 Jul 22 01:21	17° © 25'49	
morning max el	11717 Aug 22 07:49	12° Ω 48'11	27°56'10	morning max el	11718 Aug 04 17:51	25° © 26'05	27°27'50
	11717 Sep 05 01:09	0° m)			11718 Aug 08 22:07	$0^{\circ}\Omega$	
	11717 Sep 22 13:39	0∘ ऌ			11718 Aug 29 13:23	0° m	
morning set	11717 Sep 25 08:15	5° ≙ 32'43		morning set	11718 Sep 08 23:16	19° m 05'59	
asc. node	11717 Sep 26 08:46	7° ≏ 38'29		asc. node	11718 Sep 13 05:28	27° Mp 41'41	
max. Earth dist.	11717 Sep 30 17:27	16° £ 52'30	1.31943 AU	max. Earth dist.	11718 Sep 13 15:02	28°M/31'13	1.32988 AU
					11718 Sep 14 08:04	0∘ ত	
superior conj	11717 Oct 02 21:30	21° ≙ 35'59	1°00'13				
minimum elong	11717 Oct 02 19:17	21° ≙ 23'51	1°00'03	superior conj	11718 Sep 17 02:32	5° ≙ 51'45	0°37'05
	11717 Oct 06 17:08	0° M .		minimum elong	11718 Sep 17 00:51	5° - 42'40	0°36'46
evening rise	11717 Oct 09 16:24	6°ML28'07		evening rise	11718 Sep 24 03:38	21° ≏ 01'59	
	11717 Oct 21 21:03	0° ∡ ¹			11718 Sep 28 11:24	0° M .	
desc. node	11717 Oct 29 17:04	11° ∡ 19'55		evening max el	11718 Oct 15 22:50	26°M40'54	22°33'38
evening max el	11717 Nov 03 12:01	16° ∡ ¹35'58	24°14'52	desc. node	11718 Oct 16 14:24	27° M 17'58	
retrograde	11717 Nov 17 04:20	23° ∡ ¹26'28			11718 Oct 19 22:11	0° ∡ ¹	
evening set	11717 Nov 22 05:42	22° ₮ 30′10		retrograde	11718 Oct 28 23:04	3° ∡ ¹08'51	
min. Earth dist.	11717 Nov 27 23:03	19° ∡ ³37'20	0.56015 AU	evening set	11718 Nov 01 13:35	2° ҂ ¹40′23	
inferior conj	11717 Nov 30 05:56	18° ∡ 12'54		C	11718 Nov 07 20:44	30°RM₀	
minimum elong	11717 Nov 30 10:25	18° ₹ 05'58	5°40'17	min. Earth dist.	11718 Nov 09 06:32	29°M13'00	0.54870 AU
morning rise	11717 Dec 08 17:13	14° ∡ 13'32		inferior conj	11718 Nov 10 05:44	28°M40'07	-5°45'40
direct	11717 Dec 11 06:36	13° ∡ 56′26		minimum elong	11718 Nov 10 01:59	28°M45'26	5°44'45
morning max el	11717 Dec 21 08:25	18° ∡ ¹44'48	19°48'33	morning rise	11718 Nov 18 15:52	24°M52'19	
asc. node	11717 Dec 23 09:10	20° ₹ 52'46		direct	11718 Nov 21 21:26	24°M28'31	
	11717 Dec 29 20:18	0°ಕ		morning max el	11718 Dec 03 12:40	29°ML59'43	21°12'52
morning set	11718 Jan 08 00:56	17° る 19'33			11718 Dec 03 12:47	0° ∡ 7	
	11718 Jan 14 06:53	0° ≈		asc. node	11718 Dec 10 06:13	8° ₹ 104'00	
					11718 Dec 22 10:05	0°ಕ	
superior conj	11718 Jan 15 20:54	3°≈09'41	1°11'49	morning set	11718 Dec 23 09:47	2° ට 02'53	
minimum elong	11718 Jan 15 23:45	3° ≈ 23'48	1°12'09				
max. Earth dist.	11718 Jan 21 22:42	14° ≈ 51'33	1.37343 AU	superior conj	11718 Dec 30 16:47	17° る 19'33	1°27'45
evening rise	11718 Jan 25 16:07	21° ≈ 39'11		minimum elong	11718 Dec 30 18:53	17° ට 30'25	
desc. node	11718 Jan 25 16:11	21° ≈ 39'26		max. Earth dist.	11719 Jan 04 08:30		1.35310 AU
	11718 Jan 30 11:37	0°) €			11719 Jan 06 00:15	0° ≈	
	11718 Feb 19 11:32	0°Υ		evening rise	11719 Jan 08 10:08	4°≈36'08	
evening max el	11718 Mar 02 04:40	12° Y 28'43	25°26'05	desc. node	11719 Jan 12 13:00	12° ≈ 08'04	
retrograde	11718 Mar 14 10:09	19° Y 32'44	20 20 00	acce. noue	11719 Jan 23 08:14	0° ∀	
evening set	11718 Mar 20 07:09	17° Υ '06'48		evening max el	11719 Feb 12 18:17	26°) 15'47	26°29'49
asc. node	11718 Mar 21 06:55	16° Υ 12'40		evening max er	11719 Feb 17 02:00	0°Υ	20 27 17
min. Earth dist.	11718 Mar 24 15:40	12° Υ 20'03	0.67685 AU	retrograde	11719 Feb 25 17:52	3° Υ 35'28	
inferior conj	11718 Mar 25 23:41	10° Υ 36'48	1°26'47	evening set	11719 Mar 04 01:57	1° Υ 03'34	
minimum elong	11718 Mar 25 21:50	10° Υ 42'46	1°26'04	evening set	11719 Mar 05 06:46	30°R) €	
morning rise	11718 Mar 23 21:50 11718 Mar 31 12:58	4° Υ 44'09	1 20 07	min. Earth dist.	11719 Mar 08 04:29	26° ₩ 51'10	0.66530 AU
direct	11718 Apr 04 00:17	3° Υ 34'56		asc. node	11719 Mar 08 04:16	26° H 51'49	5.00550 AU
morning max el	11718 Apr 04 00.17 11718 Apr 10 23:07	7° Υ 23'02	19°10'06	inferior conj	11719 Mar 10 00:29	26 K 3149 24° H 38'40	0°35'26
desc. node	11718 Apr 10 23.07 11718 Apr 23 17:43	24°Υ15'33	17 10 00	minimum elong	11719 Mar 10 00.29 11719 Mar 09 23:34	24 K 38 40 24° K 41'26	0°35'13
	-		-0.7m	•		18° H 56'24	0 33 13
greatest brilliancy	11718 Apr 23 22:56	24°¥35'01 0° と	-U. / III	morning rise direct	11719 Mar 15 22:10	18° X 36'24 18° X 04'59	
morning ast	11718 Apr 27 12:56	11° 8 01'33			11719 Mar 18 22:50 11719 Mar 25 10:48	21° H 32'59	18°25'16
morning set	11718 May 04 17:10	0°II		morning max el		21° π 32'39 0° Υ	10 23 10
	11718 May 16 22:04	υц			11719 Apr 01 05:34	v i	

desc. node	11719 Apr 10 14:25	14° Y ′21'33			11720 Mar 24 14:35	0°Υ	
morning set	11719 Apr 14 16:16	20° Y ′49′08		morning set	11720 Mar 25 20:20	2° Y ′02'58	
C	11719 Apr 20 11:34	0° ႘		desc. node	11720 Mar 27 11:04	4° Y 42'47	
superior conj	11719 Apr 30 11:45	15° 8 41'54		superior conj	11720 Apr 09 00:04	25° Y ′01'17	
minimum elong	11719 Apr 30 03:24	15° 8 09'19		minimum elong	11720 Apr 08 15:19	24° Y ′26'31	1°24'47
max. Earth dist.	11719 Apr 30 22:50	16° 8 25'13	1.45730 AU		11720 Apr 12 03:41	0° 8	
	11719 May 09 15:17	0°П		max. Earth dist.	11720 Apr 12 19:05	1°800'32	1.45447 AU
evening rise	11719 May 16 07:49 11719 May 25 22:27	10° Ⅲ 30'34 25° Ⅲ 35'29	-0.8m	evening rise	11720 Apr 25 01:24	20° 8 02'27 0° П	
greatest brilliancy	11/19 May 25 22:27 11719 May 28 19:38	25° Щ 35°29	-0.8m	greatest brilliancy	11720 May 01 13:39 11720 May 09 05:10	11° Ц 28'03	-0.6m
asc. node	11719 Jun 04 01:53	8° 9 51'21		asc. node	11720 May 09 03:10 11720 May 20 23:01	26° II 45'52	-0.0111
evening max el	11719 Jun 07 15:14	12°957'12	18°55'00	evening max el	11720 May 20 21:23	26° I I41'47	19°45'01
retrograde	11719 Jun 14 08:50	16°9540'01		<i>y</i>	11720 May 25 01:34	0° ©	
evening set	11719 Jun 17 18:12	15° © 33'40		retrograde	11720 May 28 06:54	0°954'05	
inferior conj	11719 Jun 23 06:54	9° © 50'29	3°08'48		11720 May 31 08:08	30°RⅡ	
minimum elong	11719 Jun 23 08:04	9° 5 346'48	3°07'54	evening set	11720 Jun 01 01:18	29° Ⅱ 31'32	
min. Earth dist.	11719 Jun 24 23:58	7° © 40'59	0.66173 AU	inferior conj	11720 Jun 06 09:30	23° Ⅲ 34′16	3°15'35
morning rise	11719 Jun 28 21:16	3° 5 28'24		minimum elong	11720 Jun 06 09:33	23° Ⅱ 34'06	3°14'50
direct	11719 Jul 05 05:02	0°545'47		min. Earth dist.	11720 Jun 07 11:51	22° Ⅱ 06'09	0.67492 AU
desc. node	11719 Jul 07 14:36	1°506'06	2 (02 010 0	morning rise	11720 Jun 11 17:27	17° Ⅱ 13'06	
morning max el	11719 Jul 18 04:37	8°\$29'24 0° Ω	26°30'08	direct desc. node	11720 Jun 17 14:45 11720 Jun 23 11:42	14° Ⅲ 37'05 16° Ⅲ 38'36	
	11719 Aug 04 00:02 11719 Aug 22 00:02	0°Mp		morning max el	11720 Jun 23 11:42 11720 Jun 29 14:52	16°Щ38'36 21°Щ48'51	25012112
morning set	11719 Aug 22 00:02 11719 Aug 23 02:35	2°Mp04'04		morning max ci	11720 Jul 06 17:58	0°95	23 12 13
max. Earth dist.	11719 Aug 27 02:30	9° m) 46'13	1.34545 AU		11720 Jul 27 06:06	0° Ω	
asc. node	11719 Aug 31 02:09	17° m) 47'27		morning set	11720 Aug 04 14:12	14° Ω 17'23	
	Č	7		max. Earth dist.	11720 Aug 08 04:43	20° Ω 52'16	1.36544 AU
superior conj	11719 Sep 01 00:58	19° m 44'51	0°09'12		11720 Aug 12 23:37	0° m)	
minimum elong	11719 Sep 01 00:29	19° m 42'18	0°08'54				
behind sun begin	11719 Aug 31 19:33	19° m 16'52		superior conj	11720 Aug 14 13:55	3°M)08'14	-0°22'33
behind sun end	11719 Sep 01 05:24	20° Mp 07'46		minimum elong	11720 Aug 14 15:22	3° My 15'23	0°22'42
	11719 Sep 05 22:32	0∘ ⊽		asc. node	11720 Aug 16 22:52	7° m 52'24	
evening rise	11719 Sep 08 12:59	5° Ω 27'45		evening rise	11720 Aug 22 18:18	19° m 39'53	
	11719 Sep 21 22:50	0°M 7°M 0210€	21°00'01		11720 Aug 27 23:58	0° ⊽	19°44'24
evening max el desc. node	11719 Sep 27 17:26 11719 Oct 03 11:46	7° ጤ 02'06 11° ጤ 21'27	21-00-01	evening max el retrograde	11720 Sep 09 01:26 11720 Sep 19 02:12	18° ♀ 04'55 23° ♀ 04'39	19-44-24
retrograde	11719 Oct 09 10:09	12°M50'29		desc. node	11720 Sep 19 02:12 11720 Sep 19 09:09	23° 2 04'39 23° 2 04'25	
evening set	11719 Oct 05 10:05	12°M36'48		evening set	11720 Sep 19 03:03 11720 Sep 20 23:21	22° 2 54'53	
inferior conj	11719 Oct 20 21:32	8°M42'11	-4°51'23	inferior conj	11720 Sep 29 19:54	18° ♀ 52'14	-3°12'04
minimum elong	11719 Oct 20 11:50	8°M55'55	4°48'38	minimum elong	11720 Sep 29 11:33	19° ჲ 05'10	
min. Earth dist.	11719 Oct 21 13:37	8°M19'26	0.54591 AU	min. Earth dist.	11720 Oct 01 23:02	17° ≏ 32'59	0.55251 AU
morning rise	11719 Oct 29 04:07	4°M48'52		morning rise	11720 Oct 07 22:03	14° ≏ 33'13	
direct	11719 Nov 02 05:37	4° ™ 13'26		direct	11720 Oct 12 19:24	13° ≏ 40'34	
morning max el	11719 Nov 15 04:35	10° ™ 27'22	22°55'06	morning max el	11720 Oct 26 15:16	20° ≏ 32'13	24°42'59
asc. node	11719 Nov 27 03:10	26°M08'04			11720 Nov 03 17:50	0° M ,	
	11719 Nov 29 08:49	0° ₹ ¹		asc. node	11720 Nov 13 00:03	14°M52'07	
morning set	11719 Dec 07 21:02	16° メ *49'57 0°る		marning gat	11720 Nov 20 14:54	0° द्र ⁷ 1° द्र ⁷ 35'40	
	11719 Dec 13 23:55	0.0		morning set	11720 Nov 21 08:51	1 X ·33 40	
superior conj	11719 Dec 14 20:10	1° る 48'41	1°36'39	superior conj	11720 Nov 28 04:25	16° ∡ ¹29'32	1°39'03
minimum elong	11719 Dec 14 21:11	1°る54'04	1°37'22	minimum elong	11720 Nov 28 04:17	16° х 28'44	1°39'47
max. Earth dist.	11719 Dec 18 01:48	8° ප 39'14	1.33626 AU	max. Earth dist.	11720 Nov 30 02:56	20° ∡ ¹43'16	1.32381 AU
evening rise	11719 Dec 22 17:55	18° る 07'44			11720 Dec 04 11:44	ರ°0	
	11719 Dec 29 01:24	0° ≈		evening rise	11720 Dec 05 12:07	2° る 05'29	
desc. node	11719 Dec 30 09:54	2° ≈ 24'16		desc. node	11720 Dec 16 06:52	22° る 21'55	
	11720 Jan 17 14:17	0° ∀			11720 Dec 20 22:21	0° ≈	
evening max el	11720 Jan 26 07:49	9° ¥ 50′15	27°14'06	evening max el	11721 Jan 07 19:28	22°≈59'04	27°31'56
retrograde	11720 Feb 08 19:26	17°) € 14'33			11721 Jan 18 20:21	0°) {	
evening set	11720 Feb 15 12:41	14°) (42'13	0.65005 433	retrograde	11721 Jan 21 13:56	0°) € 20'44	
min. Earth dist.	11720 Feb 19 10:17	11°) €02'49	0.65005 AU	avanie+	11721 Jan 24 05:26	30°R≈ 27°2054'57	
inferior conj minimum elong	11720 Feb 21 18:03 11720 Feb 21 18:49	8° ¥ 29'05 8° ¥ 26'59	-0°25'52 0°25'13	evening set min. Earth dist.	11721 Jan 28 12:51 11721 Feb 01 07:00	27°≈54'57 24°≈45'16	0.63166 AU
asc. node	11720 Feb 21 18:49 11720 Feb 23 01:37	8° π 26'39 7° ∺ 03'21	0 23 13	inferior conj	11721 Feb 01 07:00 11721 Feb 04 01:34	24°≈45°16 22°≈00'32	
morning rise	11720 Feb 28 02:33	2° H 59'41		minimum elong	11721 Feb 04 01:34 11721 Feb 04 04:44	22 ≈ 00 32 21° ≈ 52'40	
direct	11720 Mar 01 18:07	2° H 22'40		asc. node	11721 Feb 08 22:56	17° ≈ 47'59	
morning max el	11720 Mar 08 02:57		17°57'22	morning rise	11721 Feb 10 22:56	16° ≈ 47'00	

1.	11701 F.1. 12.07.11	1.60 - 20140			11722 1 25 27 25	00 - 10100	
direct	11721 Feb 13 07:11	16°≈20'49	.=	morning rise	11722 Jan 25 07:05	0°≈10'28	
morning max el	11721 Feb 19 20:38	19° ≈ 42'33	17°46'48		11722 Jan 26 00:13	30°Rる	
	11721 Feb 27 12:42	0° ∀		asc. node	11722 Jan 26 20:11	29° ප 52'59	
morning set	11721 Mar 08 02:08	14°) 30′28		direct	11722 Jan 27 10:27	29° る 51'29	
desc. node	11721 Mar 14 07:41	25°) 13′57			11722 Jan 28 20:17	0° ≈	
	11721 Mar 17 03:27	0 ° Υ		morning max el	11722 Feb 03 12:38	3° ≈ 25′22	17°54'19
				morning set	11722 Feb 19 03:25	27° ≈ 52'43	
superior conj	11721 Mar 20 08:08	5° Ƴ 18'38	-0°44'43		11722 Feb 20 07:23	0° ∀	
minimum elong	11721 Mar 20 03:31	4° Ƴ 59'39	0°44'02	desc. node	11722 Mar 01 04:20	15°) 51′24	
max. Earth dist.	11721 Mar 26 13:30	15° Ƴ 24'11	1.44450 AU				
evening rise	11721 Apr 04 12:51	29° Y 27'03		superior conj	11722 Mar 01 16:56	16°) 46′05	-0°04'05
S	11721 Apr 04 21:26	0°8		minimum elong	11722 Mar 01 16:35	16°) 44'37	0°03'47
	11721 Apr 25 07:47	0°II		behind sun begin	11722 Mar 01 08:31	16°) €09'36	
evening max el	11721 May 03 21:44	10° ∏ 26'52	20°49'13	behind sun end	11722 Mar 02 00:39	17° ₩ 19'33	
asc. node	11721 May 07 20:13	10 H 2032	20 49 13	max. Earth dist.	11722 Mar 09 03:36	29° H 19'33	1.42852 AU
	•	15° Ⅱ 18'09		max. Earth dist.		29 γ (1933	1.42632 AU
retrograde	11721 May 12 05:44				11722 Mar 09 13:28	9° Υ 22'05	
evening set	11721 May 16 09:57	13° Ⅲ 39'28		evening rise	11722 Mar 15 09:30		
inferior conj	11721 May 21 16:23	7° Ⅱ 29'46	3°10'07		11722 Mar 29 00:40	0° 8	
minimum elong	11721 May 21 15:26	7° Ⅱ 33'03	3°09'22	evening max el	11722 Apr 16 16:43	24° 8 12'43	22°04'02
min. Earth dist.	11721 May 22 04:51	6° Ⅱ 46'37	0.68346 AU	asc. node	11722 Apr 24 17:28	29° 8 37'40	
morning rise	11721 May 26 20:42	1° Ⅱ 12'08		retrograde	11722 Apr 26 03:33	29° 8 47'18	
	11721 May 28 10:26	30° ₹ 8		evening set	11722 Apr 30 18:24	27° 8 53'14	
direct	11721 Jun 01 05:31	28° 8 50'09		inferior conj	11722 May 06 01:23	21° 8 33'23	2°53'55
	11721 Jun 05 09:33	$\Pi^{\circ}0$		minimum elong	11722 May 05 23:41	21° 8 39'20	2°53'04
desc. node	11721 Jun 10 08:43	3° Ⅱ 40′19		min. Earth dist.	11722 May 06 00:53	21° 8 35'07	0.68733 AU
morning max el	11721 Jun 12 00:50	5° Ⅱ 17'13	23°43'57	morning rise	11722 May 11 04:47	15° 8 20'57	
morning man er	11721 Jul 01 02:22	0°9	25 .507	direct	11722 May 16 00:25	13° 8 17'47	
morning set	11721 Jul 17 05:19	25° © 33'53		morning max el	11722 May 25 12:40	18° 8 53'06	22°14'50
morning set	11721 Jul 19 19:15	0°Ω		desc. node	11722 May 28 05:39	21° 8 47'33	22 1430
Footb diet			1 20000 ATT	desc. node			
max. Earth dist.	11721 Jul 21 02:11	2° Ω 15'21	1.38809 AU		11722 Jun 03 19:49	0°II	
					11722 Jun 24 05:42	0°9	
superior conj	11721 Jul 28 13:47	15° Ω 52'55		morning set	11722 Jun 27 19:27	5°9542'38	
minimum elong	11721 Jul 28 17:42	16° Ω 11'22	0°56'23	max. Earth dist.	11722 Jul 03 01:16	14° © 20'53	1.41096 AU
asc. node	11721 Aug 03 19:37	27° Ω 52'38					
	11721 Aug 04 21:42	0° m p		superior conj	11722 Jul 10 20:14	27° © 49'05	-1°29'29
evening rise	11721 Aug 06 16:52	3° m ∕30'57		minimum elong	11722 Jul 11 02:25	28° © 16'37	1°29'24
evening max el	11721 Aug 22 22:33	29° m 55'10	18°50'17		11722 Jul 12 01:31	$0^{\circ}\Omega$	
_	11721 Aug 23 00:30	0∘ ত		evening rise	11722 Jul 21 05:13	16° Ω 51'52	
retrograde	11721 Aug 31 10:06	4° £ 09'53		asc. node	11722 Jul 21 16:25	17° Ω 44'06	
evening set	11721 Sep 02 07:44	3° Ω 57'53			11722 Jul 28 10:20	0° m)	
desc. node	11721 Sep 02 07:11 11721 Sep 06 06:31	2° £ 25'04		evening max el	11722 Aug 06 05:19		18°17'15
desc. node	11721 Sep 10 00:03	2 <u>—</u> 23 0∓ 30°R M)		retrograde	11722 Aug 00 03:17 11722 Aug 13 12:54	16° Mp 08'02	10 17 13
: <i>c</i> :	-		1910140	•		~	
inferior conj	11721 Sep 10 12:17	29° m 38'04		evening set	11722 Aug 15 17:00	15° Mp 49'13	0010104
minimum elong	11721 Sep 10 08:56	29° Mp 44'06	1°18'33	inferior conj	11722 Aug 23 02:29	11° Mp 09'02	0°19'24
min. Earth dist.	11721 Sep 13 13:28	27° Mp 27'06	0.56731 AU	minimum elong	11722 Aug 23 03:09	11° m)07'38	0°18'50
morning rise	11721 Sep 18 06:50	24° Mp 41'45		desc. node	11722 Aug 24 03:55	10°Mp15'11	
direct	11721 Sep 23 22:38	23° Mp 24'41		min. Earth dist.	11722 Aug 26 10:42	8° m 21'25	0.58773 AU
	11721 Oct 07 08:36	0∘ ত			11/22 / lug 20 10.42		
morning max el				morning rise	11722 Aug 20 10:42 11722 Aug 30 09:48	5° Mg 37'26	
	11721 Oct 08 04:45	0° ≏ 47'18	26°18'43	morning rise direct	-	5° Mp 37'26 3° Mp 51'28	
	11721 Oct 08 04:45 11721 Oct 28 16:57		26°18'43	=	11722 Aug 30 09:48		27°26'06
asc. node		0° ≏ 47'18	26°18'43	direct	11722 Aug 30 09:48 11722 Sep 05 16:24	3° m/51'28	27°26'06
	11721 Oct 28 16:57 11721 Oct 30 20:51	0° £ 47′18 0° M	26°18'43	direct	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58	3° Mp 51'28 11° Mp 36'23	27°26'06
asc. node morning set	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35	0° Ω 47'18 0° M 4° M 05'59 16° M 15'23	26°18'43	direct morning max el	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52	27°26'06
	11721 Oct 28 16:57 11721 Oct 30 20:51	0° £ 47'18 0° M 4° M 05'59	26°18'43	direct morning max el asc. node	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° M	27°26'06
morning set	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46	0° £ 47′18 0° M 4° M 05′59 16° M 15′23 0°⊀		direct morning max el	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52	27°26'06
morning set superior conj	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24	0° £ 47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47	1°35'25	direct morning max el asc. node morning set	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27	3° m/51'28 11° m/36'23 0° Ω 23° Ω40'52 0° m 0° m43'15	
morning set superior conj minimum elong	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15	0° Ω 47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47 1° ₹ 09'21	1°35'25 1°35'59	direct morning max el asc. node morning set superior conj	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07	3° m 51'28 11° m 36'23 0° <u>a</u> 23° <u>a</u> 40'52 0° m 0° m 43'15	1°26'04
superior conj minimum elong max. Earth dist.	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36	0° \$\Pi 47'18 0° \$\mathbb{m}\$. 4° \$\mathbb{m}\$.05'59 16° \$\mathbb{m}\$.15'23 0° \$\stacksquare{\stacksquar	1°35'25	direct morning max el asc. node morning set superior conj minimum elong	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° M 0° M 43'15 16° M 00'29 15° M 49'55	1°26'04 1°26'22
morning set superior conj minimum elong	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56	0° \$\Pi\$47'18 0° \$\mathbb{m}\$. 4° \$\mathbb{m}\$05'59 16° \$\mathbb{m}\$15'23 0° \$\stacksquare{	1°35'25 1°35'59	direct morning max el asc. node morning set superior conj	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° M 0° M 43'15 16° M 00'29 15° M 49'55 15° M 12'23	1°26'04
superior conj minimum elong max. Earth dist. evening rise	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53	0°亞47'18 0°肌 4°肌05'59 16°肌15'23 0°ズ 1°ズ15'47 1°ズ09'21 2°ズ56'51 16°ズ22'19 0°उ	1°35'25 1°35'59	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26	3° m/51'28 11° m/36'23 0° Ω 23° Ω 40'52 0° m 0° m 43'15 16° m 00'29 15° m 49'55 15° m 12'23 0° ズ	1°26'04 1°26'22
superior conj minimum elong max. Earth dist.	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54	0° 요47'18 0° ጤ 4° ጤ05'59 16° ጤ15'23 0° Ґ 1° Ґ 15'47 1° Ґ 29'21 2° Ґ 56'51 16° Ґ 22'19 0° ጜ 11° ጜ53'24	1°35'25 1°35'59	direct morning max el asc. node morning set superior conj minimum elong	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 20:55	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° m 0° m 43'15 16° m 00'29 15° m 49'55 15° m 12'23 0° ℤ' 0° ℤ' 50'54	1°26'04 1°26'22
superior conj minimum elong max. Earth dist. evening rise	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54 11721 Dec 15 22:56	0°亞47'18 0°肌 4°肌05'59 16°肌15'23 0°ズ 1°ズ15'47 1°ズ09'21 2°ズ56'51 16°ズ22'19 0°उ	1°35'25 1°35'59	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° M 0° M 43'15 16° M 00'29 15° M 49'55 15° M 12'23 0° ♂ 0° ♂ 50'54 0° ♂	1°26'04 1°26'22
superior conj minimum elong max. Earth dist. evening rise	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54	0° 요47'18 0° ጤ 4° ጤ05'59 16° ጤ15'23 0° Ґ 1° Ґ 15'47 1° Ґ 29'21 2° Ґ 56'51 16° Ґ 22'19 0° ጜ 11° ጜ53'24	1°35'25 1°35'59	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 20:55	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° m 0° m 43'15 16° m 00'29 15° m 49'55 15° m 12'23 0° ℤ' 0° ℤ' 50'54	1°26'04 1°26'22
superior conj minimum elong max. Earth dist. evening rise desc. node	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54 11721 Dec 15 22:56	0° £47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47 1° ₹ 09'21 2° ₹ 56'51 16° ₹ 22'19 0° ₹ 11° ₹ 53'24 0° ≈	1°35'25 1°35'59 1.31612 AU	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 20:55 11722 Nov 19 12:44	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° M 0° M 43'15 16° M 00'29 15° M 49'55 15° M 12'23 0° ♂ 0° ♂ 50'54 0° ♂	1°26'04 1°26'22 1.31341 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54 11721 Dec 15 22:56 11721 Dec 21 02:53	0° £47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47 1° ₹ 09'21 2° ₹ 56'51 16° ₹ 22'19 0° ₹ 11° ₹ 53'24 0° ≈ 5° ≈ 29'52	1°35'25 1°35'59 1.31612 AU	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 20:55 11722 Nov 19 12:44 11722 Nov 20 01:01	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° m 0° m 43'15 16° m 00'29 15° m 49'55 15° m 12'23 0° ♂ 0° ♂ 50'54 0° ♂ 647'24	1°26'04 1°26'22 1.31341 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54 11721 Dec 15 22:56 11721 Dec 21 02:53 11722 Jan 04 00:45	0° £47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47 1° ₹ 09'21 2° ₹ 56'51 16° ₹ 22'19 0° ₹ 11° ₹ 53'24 0° ≈ 5° ≈ 29'52 12° ≈ 45'04	1°35'25 1°35'59 1.31612 AU	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 20:55 11722 Nov 19 12:44 11722 Nov 20 01:01 11722 Dec 03 03:38	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° m 0° m 43'15 16° m 00'29 15° m 49'55 15° m 12'23 0° ♂ 0° ♂ 50'54 0° ♂ 60° ♂ 11'58	1°26'04 1°26'22 1.31341 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54 11721 Dec 15 22:56 11721 Dec 21 02:53 11722 Jan 04 00:45 11722 Jan 10 23:20	0° £47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47 1° ₹ 09'21 2° ₹ 56'51 16° ₹ 22'19 0° ₹ 11° ₹ 53'24 0° ≈ 5° ≈ 29'52 12° ≈ 45'04 10° ≈ 34'34	1°35'25 1°35'59 1.31612 AU 27°17'48	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 20:55 11722 Nov 19 12:44 11722 Nov 20 01:01 11722 Dec 03 03:38 11722 Dec 17 02:22	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° M 0° M 43'15 16° M 00'29 15° M 49'55 15° M 12'23 0° ズ 0° ズ 50'54 0° ℧ 0° ℧ 47'24 17° ℧ 11'58 24° ℧ 18'36	1°26'04 1°26'22 1.31341 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	11721 Oct 28 16:57 11721 Oct 30 20:51 11721 Nov 05 19:35 11721 Nov 12 01:46 11721 Nov 12 15:24 11721 Nov 12 14:15 11721 Nov 13 09:36 11721 Nov 19 13:56 11721 Nov 26 09:53 11721 Dec 03 03:54 11721 Dec 15 22:56 11721 Dec 21 02:53 11722 Jan 04 00:45 11722 Jan 10 23:20 11722 Jan 14 17:23	0° £47'18 0° M 4° M 05'59 16° M 15'23 0° ₹ 1° ₹ 15'47 1° ₹ 09'21 2° ₹ 56'51 16° ₹ 22'19 0° ₹ 11° ₹ 53'24 0° ≈ 5° ≈ 29'52 12° ≈ 45'04 10° ≈ 34'34 7° ≈ 47'36	1°35'25 1°35'59 1.31612 AU 27°17'48 0.61101 AU -2°53'43	direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11722 Aug 30 09:48 11722 Sep 05 16:24 11722 Sep 20 00:58 11722 Oct 04 10:15 11722 Oct 17 17:37 11722 Oct 20 19:15 11722 Oct 21 03:27 11722 Oct 28 03:07 11722 Oct 28 01:14 11722 Oct 27 18:30 11722 Nov 03 11:26 11722 Nov 03 11:26 11722 Nov 19 12:44 11722 Nov 20 01:01 11722 Dec 03 03:38 11722 Dec 17 02:22 11722 Dec 23 16:05	3° m 51'28 11° m 36'23 0° Ω 23° Ω 40'52 0° m 0° m 43'15 16° m 00'29 15° m 49'55 15° m 12'23 0° ♂ 0° ♂ 50'54 0° ♂ 0° ♂ 47'24 17° ♂ 11'58 24° ♂ 18'36 22° ♂ 32'40	1°26'04 1°26'22 1.31341 AU 26°29'22

14°**∡**13'58

11724 Nov 13 04:54

evening set

11723 Dec 10 22:56

30°R*x*⁷

		=					
min. Earth dist.	11724 Nov 19 17:00		0.55443 AU	minimum elong	11725 Oct 31 23:38	20°M28'09	5°28'05
inferior conj	11724 Nov 21 11:58	10° ∡ ¹05'31		min. Earth dist.	11725 Oct 31 23:39	20°M28'09	0.54635 AU
minimum elong	11724 Nov 21 13:15	10° ∡ 03'37	5°49'15	morning rise	11725 Nov 09 15:27	16°M31'02	
morning rise	11724 Nov 29 23:23	6° ҂ 12'47		direct	11725 Nov 13 05:10	16°M03'05	
direct	11724 Dec 02 19:13	5° ∡ '53'15		morning max el	11725 Nov 25 11:08	21°M52'21	21°54'47
morning max el	11724 Dec 13 12:37	10° ∡ 58'54	20°21'45		11725 Dec 02 08:04	0° ∡ ¹	
asc. node	11724 Dec 17 11:37	15° ∡ ¹24'39		asc. node	11725 Dec 04 08:37	3° ₮ 00'08	
	11724 Dec 26 13:14	0°₹		morning set	11725 Dec 16 11:34	25° ∡ ¹41'28	
morning set	11725 Jan 01 01:28	10°る55'29			11725 Dec 18 12:27	0°ප	
superior conj	11725 Jan 08 15:11	26° පි 28'56	1°19'28	superior conj	11725 Dec 23 14:38	10° පි 48'31	1°32'21
minimum elong	11725 Jan 08 17:47	26° ප් 42'03	1°19'55	minimum elong	11725 Dec 23 16:18	10° る 57'14	1°33'00
	11725 Jan 10 09:16	0°≈		max. Earth dist.	11725 Dec 27 15:50	19° る 10'27	1.34541 AU
max. Earth dist.	11725 Jan 14 03:06	7° ≈ 18'15	1.36449 AU	evening rise	11725 Dec 31 22:54	27° ප 38'36	
evening rise	11725 Jan 17 22:38	14° ≈ 25'48		-	11726 Jan 02 04:39	0° ≈	
desc. node	11725 Jan 19 18:27	17° ≈ 43'25		desc. node	11726 Jan 06 15:16	8° ≈ 07'27	
	11725 Jan 26 23:09	0° ∀			11726 Jan 20 06:01	0° ∀	
	11725 Feb 17 04:11	$0^{\circ}\mathbf{\Upsilon}$		evening max el	11726 Feb 05 00:49	19°) 25′19	26°51'20
evening max el	11725 Feb 22 11:21	5° Ƴ 42'54	25°55'05	retrograde	11726 Feb 18 06:08	26°) 48'32	
retrograde	11725 Mar 07 00:55	12° Υ '54'20	20 00 00	evening set	11726 Feb 24 18:33	24°) 15'19	
evening set	11725 Mar 13 02:56	10° Υ 25'12		min. Earth dist.	11726 Feb 28 18:44	20° X 17'30	0.65929 AU
asc. node	11725 Mar 15 09:30	8°Υ12'36		asc. node	11726 Mar 02 06:51	18°) 32'47	0.05727710
min. Earth dist.	11725 Mar 17 08:46	5°Υ53'25	0.67246 AU	inferior conj	11726 Mar 02 19:55	17° H 54'33	0°10'37
inferior conj		3° Υ 56'53	1°06'14	•		17 X 54 33	0°10'37 0°10'44
,	11725 Mar 18 21:55	4° Υ 01'43	1°05'41	minimum elong transit middle	11726 Mar 02 19:37	17 X 55 25	0°10'44
minimum elong	11725 Mar 18 20:23		1-05/41		11726 Mar 02 19:37		0-10-44
	11725 Mar 22 07:45	30° ₹ ₩		transit begin	11726 Mar 02 17:26	18° 米 01′50	
morning rise	11725 Mar 24 14:29	28°¥08'35		transit end	11726 Mar 02 21:49	17°) 49′02	
direct	11725 Mar 27 21:12	27°) €07'14		morning rise	11726 Mar 08 21:58	12°) 17'45	
	11725 Apr 02 19:10	0° Υ		direct	11726 Mar 11 18:31	11°) € 33′00	
morning max el	11725 Apr 03 14:18	0° Υ 44'50	18°49'02	morning max el	11726 Mar 18 04:16	14° ¥ 55'59	18°11'19
desc. node	11725 Apr 17 20:00	20° Y 06′52			11726 Mar 29 05:37	$0^{\circ}\mathbf{\Upsilon}$	
	11725 Apr 24 05:12	$0^{\circ}S$		desc. node	11726 Apr 04 16:38	10° Ƴ 19'50	
morning set	11725 Apr 25 17:47	2° 8 22'28		morning set	11726 Apr 06 04:59	12° Ƴ 46′18	
max. Earth dist.	11725 May 10 12:52	25° 8 27'09	1.45555 AU		11726 Apr 16 23:49	0° 8	
superior conj	11725 May 12 02:12	27° 8 53'26		superior conj	11726 Apr 21 09:22	6° 8 55'13	
minimum elong	11725 May 11 21:10	27° 8 33'43	2°09'22	minimum elong	11726 Apr 21 00:01	6° 8 18'34	
	11725 May 13 10:27	Π $^{\circ}0$		max. Earth dist.	11726 Apr 23 08:27	_	1.45700 AU
evening rise	11725 May 27 07:44	22° Ⅱ 05'58			11726 May 06 04:47	Π $^{\circ}0$	
	11725 Jun 01 05:22	0ං ව		evening rise	11726 May 07 11:07	1° Ⅱ 57'57	
asc. node	11725 Jun 11 07:15	1.50602.511.0					
evening max el	11/23 Juli 11 07.13	15° © 35'19		greatest brilliancy	11726 May 19 04:34	20° Ⅱ 03'19	-0.7m
	11725 Jun 16 20:27	15°935'19 22°926'11	18°33'27	greatest brilliancy	11726 May 19 04:34 11726 May 26 02:05		-0.7m
retrograde			18°33'27	greatest brilliancy asc. node		20° Ⅱ 03'19	-0.7m
retrograde evening set	11725 Jun 16 20:27	22° © 26'11	18°33'27		11726 May 26 02:05	20°∏03'19 0°©	-0.7m 19°14'22
•	11725 Jun 16 20:27 11725 Jun 23 08:23	22°\$26'11 25°\$57'28	18°33'27 2°58'23	asc. node	11726 May 26 02:05 11726 May 29 04:20	20° П 03'19 0°ഇ 3° © 54'17	
evening set	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49	22°\$26'11 25°\$57'28 25°\$00'08		asc. node evening max el	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22	20°II03'19 0°© 3°©54'17 6°©07'57	
evening set inferior conj	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17	2°58'23	asc. node evening max el retrograde	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02	20° II 03' 19 0° 59 3° 554' 17 6° 507' 57 10° 502' 28	
evening set inferior conj minimum elong min. Earth dist.	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53	2°58'23 2°57'21	asc. node evening max el retrograde evening set inferior conj	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29	20°II 03'19 0°II 03'19 0°II 3°II 75'17 6°II 75'17 10°II 75'17 10°I	19°14'22
evening set inferior conj minimum elong	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23	2°58'23 2°57'21	asc. node evening max el retrograde evening set	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04	20°II 03'19 0°II 03'19 0°II 03'17 6°II 07'57 10°II 08'02'28 8°II 08'19'23 2°II 08'19'23	19°14'22 3°13'18
evening set inferior conj minimum elong min. Earth dist. morning rise direct	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46	2°58'23 2°57'21	asc. node evening max el retrograde evening set inferior conj minimum elong	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13	20° II 03'19 0° II 03'19 0° II 03'19 0° II 03'19 0° II 03'19 10° II	19°14'22 3°13'18 3°12'30
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03	2°58'23 2°57'21 0.65214 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32	20°II03'19 0°S 3°S54'17 6°S07'57 10°S02'28 8°S49'23 2°S59'53 2°S57'38 1°S07'08 30°RII	19°14'22 3°13'18 3°12'30
evening set inferior conj minimum elong min. Earth dist. morning rise direct	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35	2°58'23 2°57'21	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44	20°M03'19 0°S 3°S54'17 6°S07'57 10°S02'28 8°S49'23 2°S59'53 2°S57'38 1°S07'08 30°RM 26°M37'29	19°14'22 3°13'18 3°12'30
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 07:17 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$	2°58'23 2°57'21 0.65214 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16	20° M03'19 0° S 3° S54'17 6° S07'57 10° S02'28 8° S49'23 2° S59'53 2° S57'38 1° S07'08 30° R II 26° II 37'29 23° II 56'34	19°14'22 3°13'18 3°12'30
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38 11725 Aug 26 01:18	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$\Omega\$ 0°\$\mathbb{m}\$	2°58'23 2°57'21 0.65214 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16 11726 Jul 01 17:03	20° M03'19 0° S 3° S54'17 6° S07'57 10° S02'28 8° S49'23 2° S59'53 2° S57'38 1° S07'08 30° R M 26° M37'29 23° M56'34 24° M50'36	19°14'22 3°13'18 3°12'30
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38 11725 Aug 26 01:18 11725 Sep 01 13:16	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$\Oldots\$ 0°\$\Oldots\$ 12°\$\Oldots\$02'30	2°58'23 2°57'21 0.65214 AU 27°06'28	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16 11726 Jul 01 17:03 11726 Jul 08 21:30	20° M03'19 0° S 3° S54'17 6° S07'57 10° S02'28 8° S49'23 2° S59'53 2° S57'38 1° S07'08 30° R M 26° M37'29 23° M56'34 24° M50'36 0° S	19°14'22 3°13'18 3°12'30 0.66782 AU
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evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38 11725 Aug 26 01:18 11725 Sep 01 13:16 11725 Sep 05 22:11 11725 Sep 07 07:44 11725 Sep 09 24:00 11725 Sep 10 09:25 11725 Sep 17 05:08 11725 Sep 24 22:55 11725 Oct 07 19:48 11725 Oct 10 16:53	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$\Omega\$ 0°\$\mathbf{m}\$ 12°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$03'246 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$21'55 20°\$\mathbf{m}\$23'46	2°58'23 2°57'21 0.65214 AU 27°06'28 1.33592 AU 0°25'48 0°25'28	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16 11726 Jul 01 17:03 11726 Jul 08 21:30 11726 Jul 10 10:00 11726 Jul 31 21:02 11726 Aug 15 10:29 11726 Aug 18 06:07 11726 Aug 24 18:47 11726 Aug 24 18:47 11726 Aug 24 13:07 11726 Aug 24 13:07 11726 Aug 25 00:56	20° M03'19 0° 9 3° 954'17 6° 907'57 10° 902'28 8° 949'23 2° 959'53 2° 957'38 1° 907'08 30° R M 26° M 37'29 23° M 56'34 24° M 50'36 0° 9 1° 929'25 0° A 24° A43'17 0° m 1° m 51'02 12° m 51'32 12° m 52'47 12° m 22'48 13° m 22'48	19°14'22 3°13'18 3°12'30 0.66782 AU 25°58'56 1.35338 AU -0°03'53
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38 11725 Aug 26 01:18 11725 Sep 01 13:16 11725 Sep 05 22:11 11725 Sep 07 07:44 11725 Sep 09 24:00 11725 Sep 09 24:00 11725 Sep 10 09:25 11725 Sep 10 09:25 11725 Sep 24 22:55 11725 Oct 07 19:48 11725 Oct 10 16:53 11725 Oct 20 08:22	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$\Omega\$ 0°\$\mathbf{m}\$ 12°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$03'246 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$21'55 20°\$\mathbf{m}\$53'06 24°\$\mathbf{m}\$35'37	2°58'23 2°57'21 0.65214 AU 27°06'28 1.33592 AU 0°25'48 0°25'28	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16 11726 Jul 01 17:03 11726 Jul 01 17:03 11726 Jul 08 21:30 11726 Jul 10 10:00 11726 Jul 31 21:02 11726 Aug 15 10:29 11726 Aug 18 06:07 11726 Aug 19 05:19 11726 Aug 24 18:47 11726 Aug 24 13:07 11726 Aug 25 00:56 11726 Aug 25 00:56 11726 Aug 25 04:26	20° M03'19 0° 9 3° 954'17 6° 907'57 10° 902'28 8° 949'23 2° 959'53 2° 957'38 1° 907'08 30° R M 26° M37'29 23° M56'34 24° M50'36 0° 9 1° 929'25 0° A 24° A43'17 0° m 1° m51'02 12° m51'32 12° m52'47 12° m52'48 13° m22'48 13° m40'36	19°14'22 3°13'18 3°12'30 0.66782 AU 25°58'56 1.35338 AU -0°03'53
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38 11725 Aug 26 01:18 11725 Sep 01 13:16 11725 Sep 05 22:11 11725 Sep 07 07:44 11725 Sep 09 24:00 11725 Sep 09 24:00 11725 Sep 10 09:25 11725 Sep 10 09:25 11725 Oct 07 19:48 11725 Oct 10 16:53 11725 Oct 20 08:22 11725 Oct 23 09:05	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$\Omega\$ 0°\$\mathred{m}\$ 12°\$\mathred{m}\$02'30 20°\$\mathred{m}\$42'47 23°\$\mathred{m}\$10'13 29°\$\mathred{m}\$10'13	2°58'23 2°57'21 0.65214 AU 27°06'28 1.33592 AU 0°25'48 0°25'28	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 16 05:10 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16 11726 Jul 01 17:03 11726 Jul 08 21:30 11726 Jul 10 10:00 11726 Jul 31 21:02 11726 Aug 15 10:29 11726 Aug 18 06:07 11726 Aug 19 05:19 11726 Aug 24 18:47 11726 Aug 24 19:01 11726 Aug 25 00:56 11726 Aug 25 04:26 11726 Sep 01 13:04	20°M03'19 0°S 3°S54'17 6°S07'57 10°S02'28 8°S49'23 2°S59'53 2°S57'38 1°S07'08 30°RM 26°M37'29 23°M56'34 24°M50'36 0°S 1°S29'25 0°A 24°A43'17 0°M 1°M51'02 12°M51'32 12°M52'47 12°M52'48 13°M22'48 13°M22'48 13°M40'36 28°M53'30	19°14'22 3°13'18 3°12'30 0.66782 AU 25°58'56 1.35338 AU -0°03'53
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	11725 Jun 16 20:27 11725 Jun 23 08:23 11725 Jun 26 12:49 11725 Jul 02 05:30 11725 Jul 02 07:17 11725 Jul 04 07:02 11725 Jul 08 00:46 11725 Jul 14 12:53 11725 Jul 14 19:52 11725 Jul 27 23:11 11725 Aug 06 19:38 11725 Aug 26 01:18 11725 Sep 01 13:16 11725 Sep 05 22:11 11725 Sep 07 07:44 11725 Sep 09 24:00 11725 Sep 09 24:00 11725 Sep 10 09:25 11725 Sep 10 09:25 11725 Sep 24 22:55 11725 Oct 07 19:48 11725 Oct 10 16:53 11725 Oct 20 08:22	22°\$26'11 25°\$57'28 25°\$00'08 19°\$25'17 19°\$19'53 16°\$55'46 13°\$04'23 10°\$22'46 10°\$23'03 18°\$17'35 0°\$\Omega\$ 0°\$\mathbf{m}\$ 12°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$02'30 20°\$\mathbf{m}\$03'246 0°\$\mathbf{m}\$ 18°\$\mathbf{m}\$21'55 20°\$\mathbf{m}\$53'06 24°\$\mathbf{m}\$35'37	2°58'23 2°57'21 0.65214 AU 27°06'28 1.33592 AU 0°25'48 0°25'28	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	11726 May 26 02:05 11726 May 29 04:20 11726 May 31 05:22 11726 Jun 07 05:02 11726 Jun 10 18:04 11726 Jun 16 04:29 11726 Jun 17 15:13 11726 Jun 18 12:32 11726 Jun 21 15:44 11726 Jun 27 19:16 11726 Jul 01 17:03 11726 Jul 01 17:03 11726 Jul 08 21:30 11726 Jul 10 10:00 11726 Jul 31 21:02 11726 Aug 15 10:29 11726 Aug 18 06:07 11726 Aug 19 05:19 11726 Aug 24 18:47 11726 Aug 24 13:07 11726 Aug 25 00:56 11726 Aug 25 00:56 11726 Aug 25 04:26	20° M03'19 0° 9 3° 954'17 6° 907'57 10° 902'28 8° 949'23 2° 959'53 2° 957'38 1° 907'08 30° R M 26° M37'29 23° M56'34 24° M50'36 0° 9 1° 929'25 0° A 24° A43'17 0° m 1° m51'02 12° m51'32 12° m52'47 12° m52'48 13° m22'48 13° m40'36	19°14'22 3°13'18 3°12'30 0.66782 AU 25°58'56 1.35338 AU -0°03'53

evening rise	11728 Jul 30 10:31	26° Ω 36′22			11729 Jul 08 09:26	0°N	
	11728 Aug 01 05:09	0° m)		evening rise	11729 Jul 13 17:15	9° Ω 41'18	
evening max el	11728 Aug 15 11:31	22° m/31'13	18°33'41	asc. node	11729 Jul 15 18:46	13° Ω 27'22	
retrograde	11728 Aug 23 09:32	26° m/29'50			11729 Jul 25 13:54	0° m/y	10000112
evening set	11728 Aug 25 09:44	26° m 15'18		evening max el	11729 Jul 29 21:04	5° Mp 16'11	18°09'13
desc. node	11728 Aug 31 09:05	23° Mp 11'06	0025107	retrograde	11729 Aug 05 20:11	8° Mp 48'43	
inferior conj	11728 Sep 02 06:09	21° Mp 46'41		evening set	11729 Aug 08 03:36	8° Mp 25'48	0054122
minimum elong	11728 Sep 02 04:45	21° Mp 49'22	0°34'45	inferior conj	11729 Aug 15 05:18	3° My 36'33	0°54'33
min. Earth dist.	11728 Sep 05 11:59	19° Mp 18'01	0.57558 AU	minimum elong	11729 Aug 15 06:59	3° M) 32'46	0°53'32
morning rise	11728 Sep 09 20:19	16° Mp 34'54		desc. node	11729 Aug 18 06:27	0° My 52'58	0.59732 AU
direct	11728 Sep 15 19:15	15° Mp 05'48	26°51'37	min. Earth dist.	11729 Aug 18 12:28	0° Mp 40'06	0.59732 AU
morning max el	11728 Sep 30 02:45	22° m/37'59	20-31-37		11729 Aug 19 07:44	30°R Ω	
,	11728 Oct 06 16:12	0° ⊽		morning rise	11729 Aug 22 07:11	27° \O 52'28	
asc. node	11728 Oct 24 23:09	29° £ 43'23		direct	11729 Aug 28 18:01	25° Ω 54'51	
	11728 Oct 25 02:31	0°M			11729 Sep 07 18:47	0° Mp	27042152
morning set	11728 Oct 29 20:32	9°M46'37		morning max el	11729 Sep 12 02:14	3°Mp46'05 0°₽	27°43'52
	11720 N 05 17-24	249 m 52112	1922100	4-	11729 Oct 01 09:23 11729 Oct 11 19:55		
superior conj	11728 Nov 05 17:34	24°M53'13	1°32'08	asc. node		19° £ 25′25	
minimum elong	11728 Nov 05 16:03	24°M44'48	1°32'36	morning set	11729 Oct 14 02:41	24° £ 08'14	
max. Earth dist.	11728 Nov 06 00:14	25°M30'21	1.31438 AU	F 4 F 4	11729 Oct 16 20:35	0°M	1 21270 411
	11728 Nov 08 00:44	0° ∡ 7		max. Earth dist.	11729 Oct 20 09:13	7° M 45'07	1.31378 AU
evening rise	11728 Nov 12 13:34	9° ₹ 51'32			115000 . 01 05 05	00 m 25122	1000105
	11728 Nov 22 21:29	0°る		superior conj	11729 Oct 21 05:05	9°M35'33	1°20'25
desc. node	11728 Nov 27 06:18	7° る 21'01		minimum elong	11729 Oct 21 02:59	9°M23'53	1°20'36
evening max el	11728 Dec 13 05:07	27°る56'24	27°01'27	evening rise	11729 Oct 27 22:11	24°M23'27	
	11728 Dec 15 13:02	0° ≈			11729 Oct 30 13:57	0° ∡ ¹	
retrograde	11728 Dec 27 03:17	5° ≈ 07'09		desc. node	11729 Nov 14 03:29	25° ∡ 55′12	
evening set	11729 Jan 02 23:25	3° ≈ 06′16			11729 Nov 17 01:06	0°₹	
min. Earth dist.	11729 Jan 06 19:30	0° ≈ 25'43	0.60188 AU	evening max el	11729 Nov 25 02:20	9° ට 15'49	25°58'54
	11729 Jan 07 08:19	30°Rる		retrograde	11729 Dec 09 00:11	16° ප 18'36	
inferior conj	11729 Jan 09 23:26	27° ⋜ 49'12		evening set	11729 Dec 15 07:15	14° පි 45'04	
minimum elong	11729 Jan 10 06:32	27° る 34'32	3°24'01	min. Earth dist.	11729 Dec 19 15:04	12° る 09'24	0.58081 AU
morning rise	11729 Jan 17 16:27	23° る 03'12		inferior conj	11729 Dec 22 16:38	9° る 57'49	
direct	11729 Jan 19 18:56	22° る 46'04		minimum elong	11729 Dec 23 00:58	9° ප් 42'52	4°38'53
asc. node	11729 Jan 20 22:42	22° る 51'27		morning rise	11729 Dec 30 21:20	5° පි 34'21	
morning max el	11729 Jan 27 04:55	26° පි 27'56	18°03'21	direct	11730 Jan 02 01:01	5° る 19'23	
	11729 Jan 30 06:34	0° ≈		asc. node	11730 Jan 07 19:53	7° る 14'57	
morning set	11729 Feb 11 19:26	21° ≈ 07'22		morning max el	11730 Jan 10 12:01	9° る 26'52	18°39'30
	11729 Feb 16 14:30	0° ∀			11730 Jan 23 20:41	0° ≈	
				morning set	11730 Jan 26 14:58	5° ≈ 18'59	
superior conj	11729 Feb 21 18:14	9° ∺ 18'47	0°11'45				
minimum elong	11729 Feb 21 19:12	9°) 23′04	0°11'57	superior conj	11730 Feb 04 09:39	22° ≈ 11'26	0°44'04
behind sun begin	11729 Feb 21 13:57	8° ¥ 59'50		minimum elong	11730 Feb 04 12:20	22° ≈ 23'57	0°44'11
behind sun end	11729 Feb 22 00:26	9°) 46′15			11730 Feb 08 15:43	0° ∀	
desc. node	11729 Feb 23 06:30	11° ∺ 58'38		desc. node	11730 Feb 10 03:12	2°) 38′31	
max. Earth dist.	11729 Mar 01 09:07	22° ∺ 25'30	1.42037 AU	max. Earth dist.	11730 Feb 11 17:08	5° ∺ 25'28	1.39897 AU
	11729 Mar 06 00:02	0 ° $\mathbf{\gamma}$		evening rise	11730 Feb 15 18:44	12° ∺ 23'16	
evening rise	11729 Mar 06 17:55	1° Ƴ 11'46			11730 Feb 26 19:42	0°Υ	
	11729 Mar 25 23:30	9° 8			11730 Mar 21 09:19	0° 8	
evening max el	11729 Apr 09 00:27	17° 8 26'06	22°37'49	evening max el	11730 Mar 22 14:46	1° 8 15'18	23°58'27
retrograde	11729 Apr 18 22:56	23° 8 18'14		retrograde	11730 Apr 02 16:48	7° 8 46'29	
asc. node	11729 Apr 18 20:02	23° 8 18'09		asc. node	11730 Apr 05 17:22	7° 8 04'17	
evening set	11729 Apr 23 18:42	21° 8 17'46		evening set	11730 Apr 08 00:13	5° 8 32'36	
inferior conj	11729 Apr 29 02:32	14° 8 54'37	2°44'01	min. Earth dist.	11730 Apr 12 17:06	0° 8 05'23	0.68512 AU
minimum elong	11729 Apr 29 00:37	15° 8 01'18	2°43'07		11730 Apr 12 18:41	30° ₹Ƴ	
min. Earth dist.	11729 Apr 28 20:40	15° 8 15'03	0.68768 AU	inferior conj	11730 Apr 13 11:16	29° Ƴ 03'39	2°13'45
morning rise	11729 May 04 06:25	8° 8 45'04		minimum elong	11730 Apr 13 09:05	29° Ƴ 11′02	2°12'49
direct	11729 May 08 20:28	6° 8 50'50		morning rise	11730 Apr 18 18:01	23° Y 01'09	
morning max el	11729 May 17 19:46	12° 8 03'33	21°38'42	direct	11730 Apr 22 19:06	21° Y 28'24	
desc. node	11729 May 22 07:57	17° 8 05'29		morning max el	11730 Apr 30 15:58	25° Y 55'16	20°21'26
	11729 Jun 01 00:05	$\Pi^{\circ}0$			11730 May 04 08:24	0° 8	
morning set	11729 Jun 18 21:46	27° Ⅲ 00'41		desc. node	11730 May 09 04:47	6° 8 16'21	
	11729 Jun 20 18:40	0 \circ \odot			11730 May 25 09:29	$\Pi^{\circ}0$	
max. Earth dist.	11729 Jun 25 03:43	7° © 07'50	1.42015 AU	morning set	11730 May 29 03:03	5° Ⅱ 43'43	
				max. Earth dist.	11730 Jun 07 12:12	20° Ⅲ 28′52	1.43859 AU
superior conj	11729 Jul 02 17:18	19° © 57'17	-1°42'09		11730 Jun 13 08:46	0ංම	
minimum elong	11729 Jul 02 24:00	20°526'24	1°42'10				

	11500 1 10 15 10	0000000	2005115		11531 1 05 00 50		
superior conj	11730 Jun 13 15:40	0°528'28			11731 Jun 05 22:50	0°©	
minimum elong	11730 Jun 13 21:04	0°950'47	2°05'44	evening rise	11731 Jun 07 23:48	3°522'08	
evening rise	11730 Jun 26 07:18	22°500'04		asc. node	11731 Jun 19 12:39	22° © 07'48	
	11730 Jun 30 21:56	0°N			11731 Jun 25 05:26	0° Ω	10015141
asc. node	11730 Jul 02 15:40	2° £ 58'16	1000 411 2	evening max el	11731 Jun 27 00:22	1° Ω 56'46	18°17'41
evening max el	11730 Jul 13 10:29	18° Ω 27'31	18°04'12	retrograde	11731 Jul 03 09:22	5° Ω 20'15	
retrograde	11730 Jul 19 21:36	21° Ω 48'34		evening set	11731 Jul 06 09:01	4° £ 31'43	
evening set	11730 Jul 22 13:03	21° Ω 14'02	1950145	: c :	11731 Jul 11 12:03	30°R©	29.4212.6
inferior conj	11730 Jul 28 22:56	16° Ω 05'50	1°59'45	inferior conj	11731 Jul 12 06:55	29°506'21	2°42'26
minimum elong	11730 Jul 29 01:36	15° Ω 59'00	1°58'24	minimum elong	11731 Jul 12 09:12	28°959'45	2°41'16
min. Earth dist.	11730 Jul 31 22:04	13° Ω 04'10	0.62009 AU	min. Earth dist.	11731 Jul 14 17:00	26°920'20	0.64137 AU
morning rise	11730 Aug 04 11:48	10° Ω 00'00		morning rise	11731 Jul 18 08:00	22°548'53	
desc. node	11730 Aug 05 03:49	9° Ω 33'00		desc. node	11731 Jul 23 01:06	20°523'49	
direct	11730 Aug 11 04:08	7° Ω 37'47		direct	11731 Jul 24 23:24	20°511'02	
morning max el	11730 Aug 25 08:05	15° Ω 39'39	27°57'25	morning max el	11731 Aug 07 17:38		27°34'04
	11730 Sep 06 01:43	0° Т р			11731 Aug 09 10:59	$0^{\circ}\Omega$	
	11730 Sep 24 00:27	0∘ ⊽			11731 Aug 30 20:47	0° m/y	
morning set	11730 Sep 28 03:09	8° ≏ 10'37		morning set	11731 Sep 11 19:34	21° m 47'46	
asc. node	11730 Sep 28 16:37	9° ≏ 19'47		asc. node	11731 Sep 15 13:18	29° m 21'58	
max. Earth dist.	11730 Oct 03 14:58	19° ≏ 47'32	1.31829 AU		11731 Sep 15 20:39	0∘ ত	
				max. Earth dist.	11731 Sep 16 13:46	1° ≏ 29'11	1.32802 AU
superior conj	11730 Oct 05 14:42	24° £ 08'26	1°03'17				
minimum elong	11730 Oct 05 12:27	23° ≏ 56'07	1°03'10	superior conj	11731 Sep 19 20:27	8° Ω 26'37	0°40'55
	11730 Oct 08 06:28	0°M		minimum elong	11731 Sep 19 18:38	8° ≏ 16'50	0°40'37
evening rise	11730 Oct 12 09:02	8°M58'53		evening rise	11731 Sep 26 20:19	23° ≏ 33'05	
	11730 Oct 23 01:44	0° ∡ ¹			11731 Sep 29 22:08	0°M₊	
desc. node	11730 Nov 01 00:45	13° ≯ 29'34		desc. node	11731 Oct 18 22:03	29°M42'00	
evening max el	11730 Nov 06 15:33	19° ₹ 46'19	24°29'39	evening max el	11731 Oct 19 02:02		22°48'35
retrograde	11730 Nov 20 09:18	26° ₹ 38'52			11731 Oct 19 05:27	0° ⊼	
evening set	11730 Nov 25 15:16	25° х 37′53		retrograde	11731 Nov 01 05:26	6° х 23′41	
min. Earth dist.	11730 Dec 01 02:57	22° х¹ 48'33	0.56246 AU	evening set	11731 Nov 05 01:17	5° ₹ 51'46	
inferior conj	11730 Dec 03 13:15	21° ✓ 17'13	-5°36'24	min. Earth dist.	11731 Nov 12 10:37	2° ҂ ³30'37	0.54994 AU
minimum elong	11730 Dec 03 18:40	21° 尽 08'42	5°34'59	inferior conj	11731 Nov 13 15:11	1° √ 49'51	-5°48'43
morning rise	11730 Dec 12 00:11	17° ∡ 14'55		minimum elong	11731 Nov 13 12:45	1° ≯ 753′20	5°47'57
direct	11730 Dec 14 11:39	16° ₹ 58'26			11731 Nov 16 23:08	30°RM₊	
morning max el	11730 Dec 24 08:07	21° х ⁴41′09	19°37'51	morning rise	11731 Nov 22 01:45	28°M01'09	
asc. node	11730 Dec 25 17:00	23° ₹ 05′18		direct	11731 Nov 25 04:43	27° M 38'33	
	11730 Dec 30 22:53	0°ಕ			11731 Dec 02 17:28	0° ∡ ¹	
morning set	11731 Jan 10 18:18	19° る 49'41		morning max el	11731 Dec 06 14:20	3° ҂ 03′10	20°58'58
	11731 Jan 15 19:06	0° ≈		asc. node	11731 Dec 12 14:01	10° ₹ 06'48	
					11731 Dec 23 21:38	0°₹	
superior conj	11731 Jan 18 16:42	5° ≈ 46′28	1°08'45	morning set	11731 Dec 26 02:34	4° る 31'38	
minimum elong	11731 Jan 18 19:37	6° ≈ 00'45	1°09'02				
max. Earth dist.	11731 Jan 24 23:00	17° ≈ 44'17	1.37669 AU	superior conj	11732 Jan 02 11:09	19° る 52'10	1°25'48
desc. node	11731 Jan 27 23:56	23°≈15′16		minimum elong	11732 Jan 02 13:24	20° る 03'43	1°26'20
evening rise	11731 Jan 28 16:21	24° ≈ 28′13		max. Earth dist.	11732 Jan 07 08:02	29° る 40'08	1.35595 AU
	11731 Jan 31 20:44	0° ∀			11732 Jan 07 12:06	0° ≈	
	11731 Feb 20 11:58	0 ° $\mathbf{\Upsilon}$		evening rise	11732 Jan 11 07:57	7°≈18'50	
evening max el	11731 Mar 05 04:10	15° Y 06′08	25°15'28	desc. node	11732 Jan 14 20:43	13° ≈ 45′04	
retrograde	11731 Mar 17 06:30	22° Y 06'45			11732 Jan 24 14:13	0° ℋ	
evening set	11731 Mar 23 01:44	19° Ƴ 42'15		evening max el	11732 Feb 15 17:48	28° ¥ 54'24	26°21'27
asc. node	11731 Mar 23 14:43	19° Ƴ 13'34			11732 Feb 16 21:34	0 ° $\mathbf{\gamma}$	
min. Earth dist.	11731 Mar 27 11:16	14° Ƴ 50'11	0.67821 AU	retrograde	11732 Feb 28 14:59	6° Ƴ 12'06	
inferior conj	11731 Mar 28 17:28	13° Y 12′00	1°33'46	evening set	11732 Mar 05 21:30	3° Ƴ 40'53	
minimum elong	11731 Mar 28 15:31	13° Ƴ 18'19	1°32'59	asc. node	11732 Mar 09 12:03	0° Y 01'30	
morning rise	11731 Apr 03 05:41	7° Ƴ 17'51			11732 Mar 09 12:34	30°Ŗ ℋ	
direct	11731 Apr 06 18:43	6° Ƴ 05'41		min. Earth dist.	11732 Mar 10 00:54	29°) 23′27	0.66725 AU
morning max el	11731 Apr 13 19:49	9° Ƴ 57'53	19°18'10	inferior conj	11732 Mar 11 19:06	27°) 14′56	0°43'53
desc. node	11731 Apr 26 01:31	25° Ƴ 57'36		minimum elong	11732 Mar 11 18:00	27° ℋ 18'18	0°43'34
greatest brilliancy	11731 Apr 26 15:16	26° Ƴ 48'34	-0.7m	morning rise	11732 Mar 17 15:21	21° ∺ 30′58	
	11731 Apr 28 18:28	0°8		direct	11732 Mar 20 17:35	20°) 36′59	
morning set	11731 May 08 04:08	14° 8 21'48		morning max el	11732 Mar 27 06:35	24°) €07'04	18°30'54
	11731 May 18 05:52	Π °0			11732 Apr 01 05:35	0° Υ	
max. Earth dist.	11731 May 21 02:41	4° Ⅱ 29'55	1.45132 AU	desc. node	11732 Apr 11 22:11	16° Ƴ 00'42	
				morning set	11732 Apr 16 23:16	23° Ƴ 57′27	
superior conj	11731 May 24 14:48	10° Ⅲ 02′22	-2°13'17		11732 Apr 20 19:18	0°8	
minimum elong	11731 May 24 14:13	10° Ⅱ 00'03	2°13'59				

	11722) (02 22 01	100 400140	2001122		11722 14 20 22 01	400050122	
superior conj	11732 May 02 23:01	19° 8 02'40		morning set	11733 Mar 28 23:01	4° Υ 58'33	
minimum elong	11732 May 02 15:21	18° 8 32'44		desc. node	11733 Mar 29 18:49	6° Ƴ 19'45	
max. Earth dist.	11732 May 02 21:28		1.45710 AU				
	11732 May 09 23:00	Π $^{\circ}0$		superior conj	11733 Apr 12 09:26	28° Y 15'51	
evening rise	11732 May 18 16:01	13° Ⅱ 43'45		minimum elong	11733 Apr 12 00:20	27° Ƴ 39'51	1°30'31
greatest brilliancy	11732 May 27 10:56	27° Ⅱ 36'40	-0.8m		11733 Apr 13 11:50	0° 8	
	11732 May 28 23:50	0		max. Earth dist.	11733 Apr 15 17:51	3° 8 32'21	1.45537 AU
asc. node	11732 Jun 05 09:41	10° © 47'54		evening rise	11733 Apr 28 11:47	23° 8 19'47	
evening max el	11732 Jun 09 11:49	15° © 35'53	18°48'50		11733 May 02 19:58	Π $^{\circ}0$	
retrograde	11732 Jun 16 03:36	19° © 15'08		greatest brilliancy	11733 May 12 01:41	13° Ⅱ 58'14	-0.7m
evening set	11732 Jun 19 11:42	18° © 11'06		asc. node	11733 May 23 06:49	28° Ⅱ 49'04	
inferior conj	11732 Jun 25 01:20	12° © 30'01	3°06'29	evening max el	11733 May 23 18:42	29° Ⅱ 19'36	19°36'32
minimum elong	11732 Jun 25 02:40	12° © 25'50	3°05'34		11733 May 24 11:17	0 \circ \odot	
min. Earth dist.	11732 Jun 26 20:35	10°915'06	0.65942 AU	retrograde	11733 May 31 01:24	3° 5 26'56	
morning rise	11732 Jun 30 16:54	6°ഇ08'10		evening set	11733 Jun 03 18:25	2°906'47	
direct	11732 Jul 07 01:57	3° 5 25'33			11733 Jun 06 01:37	30° Ŗ Ⅱ	
desc. node	11732 Jul 08 22:19	3° 9 37'36		inferior conj	11733 Jun 09 03:05	26° Ⅱ 11′22	3°15'23
morning max el	11732 Jul 20 04:26	11° © 12'11	26°40'14	minimum elong	11733 Jun 09 03:18	26° Ⅱ 10'39	3°14'37
	11732 Aug 04 03:09	$0^{\circ}\Omega$		min. Earth dist.	11733 Jun 10 07:33	24° Ⅱ 36′50	0.67325 AU
	11732 Aug 22 10:22	0° m)		morning rise	11733 Jun 14 11:49	19° Ⅱ 49'47	
morning set	11732 Aug 25 00:49	4° m) 51'18		direct	11733 Jun 20 10:46	17° Ⅱ 12'22	
max. Earth dist.	11732 Aug 29 02:55	12° mp 47'34	1.34287 AU	desc. node	11733 Jun 25 19:26	18° Ⅱ 53'47	
asc. node	11732 Sep 01 09:59	19° m) 27'22		morning max el	11733 Jul 02 14:54	24° Ⅲ 29'56	25°24'43
	· · · · · · · · · · · · · · · · · · ·			. <i>3</i>	11733 Jul 07 13:38	0°9	
superior conj	11732 Sep 02 20:01	22° m/23'12	0°13'43		11733 Jul 28 13:38	0°N	
minimum elong	11732 Sep 02 19:18	22° m) 19'27		morning set	11733 Aug 07 15:04	17° Ω 11'52	
behind sun begin	11732 Sep 02 15:16 11732 Sep 02 16:04	22° m/02'38	0 13 23	max. Earth dist.	11733 Aug 11 06:23	23°Ω53'38	1.36224 AU
behind sun end	11732 Sep 02 10:01 11732 Sep 02 22:32	22° m/36'17		max. Darur dist.	11733 Aug 14 11:10	0° m)	1.50221110
bennia san ena	11732 Sep 02 22:32 11732 Sep 06 11:02	0° ⊡			11/33/14 11:10	V IIĮ	
evening rise	11732 Sep 10 06:04	ა _ 8° ჲ 00'14		superior conj	11733 Aug 17 10:35	5° m) 51'13	0°17'33
evening rise	11732 Sep 10 00:04 11732 Sep 21 22:04	0°M		minimum elong	11733 Aug 17 10:33	5° m) 56'44	
evening max el	11732 Sep 21 22:04 11732 Sep 29 18:53	10°ML07'55	21°12'55	asc. node	11733 Aug 17 11:42 11733 Aug 19 06:42	9° m ₀ 32'27	0 1/44
desc. node	11732 Sep 29 18:33 11732 Oct 04 19:25	14°ML04'30	21 1233	evening rise	11733 Aug 19 00:42 11733 Aug 25 12:10	22° m) 14'41	
retrograde	11732 Oct 04 19:23 11732 Oct 11 16:59	16°ML03'12		evening rise	11733 Aug 29 09:09	0° ⊽	
-	11732 Oct 11 10:39	15°ML48'04		evening max el	-	0 = 21° ⊆ 03'24	19°54'18
evening set	11732 Oct 14 06.10 11732 Oct 23 07:14	13 11648 04 11°ML53'21	5902107	desc. node	11733 Sep 12 00:43	21 ≥ 03 24 26° ♀ 09'40	19 34 18
inferior conj	11732 Oct 23 07.14 11732 Oct 22 21:59	12°ML06'22			11733 Sep 21 16:49 11733 Sep 22 07:43		
minimum elong min. Earth dist.	11732 Oct 22 21.39 11732 Oct 23 17:20		5°00'39	retrograde	*	26° ♀ 10'44	
		11°M39'09 8°M02'27	0.54572 AU	evening set	11733 Sep 24 05:35	26° ♀ 00'56	2020147
morning rise	11732 Oct 31 14:24	7°ML29'07		inferior conj	11733 Oct 03 03:45	22° £ 00'07 22° £ 13'43	
direct	11732 Nov 04 12:56		22020112	minimum elong	11733 Oct 02 18:50		3°25'29
morning max el	11732 Nov 17 07:42	13°M36'35	22°39'12	min. Earth dist.	11733 Oct 05 02:20	20° ₽ 49'10	0.55090 AU
asc. node	11732 Nov 28 10:58	28°M03'43		morning rise	11733 Oct 11 06:41	17° £ 45'54	
	11732 Nov 29 14:47	0° ⊼ ¹		direct	11733 Oct 16 00:58	16° £ 56'21	2.4027120
morning set	11732 Dec 09 13:35	19° ∡ 18'46		morning max el	11733 Oct 29 18:43	23° ₽ 43'02	24°27′20
	11732 Dec 14 13:13	0°ਰ			11733 Nov 04 11:12	0°M	
	11500 D 16 10 05	40-71010-	1005140	asc. node	11733 Nov 15 07:51	16°M42'17	
superior conj	11732 Dec 16 13:35	4°る19'07			11733 Nov 22 03:04	0° ∡ ¹	
minimum elong	11732 Dec 16 14:46	4°る25'25	1°36'26	morning set	11733 Nov 24 01:26	4° ₹ 05'00	
max. Earth dist.	11732 Dec 20 00:18	11°る34'00	1.33849 AU		11500 > 00 01 16	100 350140	1020104
evening rise	11732 Dec 24 13:53	20°₹45'55		superior conj	11733 Nov 30 21:16	18° ₹ 58'43	1°39'04
	11732 Dec 29 11:13	0° ≈		minimum elong	11733 Nov 30 21:18	18° ∡ 58'52	1°39'49
desc. node	11732 Dec 31 17:35	4°≈03'32		max. Earth dist.	11733 Dec 03 00:15	23° ∡ ³35'51	1.32532 AU
	11733 Jan 17 12:18	0° ∀			11733 Dec 06 00:27	0°₹	
evening max el	11733 Jan 28 07:23	12°) € 31′24	27°09'00	evening rise	11733 Dec 08 06:43	4° පි 40'06	
retrograde	11733 Feb 10 17:24	19° ¥ 55′28		desc. node	11733 Dec 18 14:31	24° る 04'21	
evening set	11733 Feb 17 09:34	17°) € 22'40			11733 Dec 22 03:44	0° ≈	
min. Earth dist.	11733 Feb 21 07:48	13° ¥ 38'38		evening max el	11734 Jan 10 19:18	25° ≈ 44'17	27°31'09
inferior conj	11733 Feb 23 13:53	11° ∺ 07'26			11734 Jan 15 23:50	0° ∀	
minimum elong	11733 Feb 23 14:21	11° ∺ 06′10		retrograde	11734 Jan 24 13:06	3°) €07'07	
transit middle	11733 Feb 23 14:21	11°) €06'10	0°15'25	evening set	11734 Jan 31 11:29	0°) 39'41	
transit begin	11733 Feb 23 13:32	11° ∺ 08'25			11734 Feb 01 08:45	30° R ≈	
transit end	11733 Feb 23 15:09	11° 米 03'54		min. Earth dist.	11734 Feb 04 05:56	27° ≈ 25'59	0.63458 AU
asc. node	11733 Feb 24 09:23	10° ¥ 13'14		inferior conj	11734 Feb 06 23:06	24° ≈ 41'55	-1°25'13
morning rise	11733 Mar 01 20:38	5° ¥ 36′03		minimum elong	11734 Feb 07 01:51	24° ≈ 34'57	1°23'34
direct	11733 Mar 04 13:29	4° ¥ 57'06		asc. node	11734 Feb 11 06:42	20° ≈ 48'57	
morning max el	11733 Mar 10 22:15	8°) 17′04	18°00'29	morning rise	11734 Feb 13 18:28	19° ≈ 25'59	
	11733 Mar 25 22:15	0° Y		direct	11734 Feb 16 03:37	18° ≈ 58′28	

morning max el	11734 Feb 22 15:56	22° ≈ 19'15	17°47'14	morning max el	11735 Feb 06 08:25	6° ≈ 04'57	17°51'57
	11734 Feb 28 16:07	0° ∀			11735 Feb 21 17:18	0° ∀	
morning set	11734 Mar 11 01:19	17° ¥ 15'48		morning set	11735 Feb 22 00:06	0° ¥ 30'41	
desc. node	11734 Mar 16 15:25	26°) 49′18		desc. node	11735 Mar 03 12:03	17° ¥ 25'36	
	11734 Mar 18 12:38	0°Υ				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	117311111111111111111111111111111111111	0 1		superior conj	11735 Mar 04 19:06	19° ¥ 39'44	-0°09'59
superior conj	11734 Mar 23 13:59	8° Y ′23'02	0°51'04	minimum elong	11735 Mar 04 18:13	19° X 35'56	0°09'37
	11734 Mar 23 08:40	8° Υ 01'13		_	11735 Mar 04 11:26	19° ★ 06'40	0 0937
minimum elong				behind sun begin			
max. Earth dist.	11734 Mar 29 12:23	17° Y 57′23	1.44639 AU	behind sun end	11735 Mar 05 01:01	20°) €05'08	
	11734 Apr 06 04:54	0°8			11735 Mar 10 22:32	0° Υ	
evening rise	11734 Apr 07 23:03	2° 8 42'15		max. Earth dist.	11735 Mar 12 03:01	1° Y 56'47	1.43122 AU
	11734 Apr 26 09:08	Π °0		evening rise	11735 Mar 18 17:29	12° Y 30'34	
evening max el	11734 May 06 19:53	13° Ⅱ 04'19	20°38'55		11735 Mar 30 05:57	9° 8	
asc. node	11734 May 10 04:01	15° Ⅱ 58'33		evening max el	11735 Apr 19 15:38	26° 8 49'56	21°52'30
retrograde	11734 May 15 00:18	17° Ⅱ 49'37			11735 Apr 23 05:49	$\Pi^{\circ}0$	
evening set	11734 May 19 02:58	16° Ⅱ 13'22		asc. node	11735 Apr 27 01:18	2° Ⅱ 01'09	
inferior conj	11734 May 24 09:30	10° Ⅲ 05′22	3°11'42	retrograde	11735 Apr 28 22:23	2° Ⅱ 18′00	
minimum elong	11734 May 24 08:41	10° Ⅲ 08'10	3°10'56	evening set	11735 May 03 11:33	0°Щ26′16	
min. Earth dist.	11734 May 25 00:01	9° Ⅱ 15′20	0.68244 AU	Č	11735 May 03 23:34	30°R ႘	
morning rise	11734 May 29 14:10	3° П 46'57	0.00211110	inferior conj	11735 May 08 18:20	24° 8 07'51	2°57'04
direct	11734 Jun 04 00:53	1° Ⅲ 22'27		minimum elong	11735 May 08 16:43		2°56'13
desc. node	11734 Jun 12 16:28	5° ∏ 43'28		min. Earth dist.	11735 May 08 19:46	24° 8 02'52	0.68702 AU
	11734 Jun 15 00:50	7° П 57'13	22957122		•	17° 8 54'30	0.08702 AU
morning max el			25-57-25	morning rise	11735 May 13 21:42	_	
	11734 Jul 02 06:50	0°©		direct	11735 May 18 19:21	15° 8 48'11	
morning set	11734 Jul 20 09:38	28° © 38'05		morning max el	11735 May 28 12:08	•	22°27'48
	11734 Jul 21 04:43	0 \circ Ω		desc. node	11735 May 30 13:24	23° 8 41'44	
max. Earth dist.	11734 Jul 24 04:04	5° Ω 12'00	1.38459 AU		11735 Jun 04 19:06	Π °0	
					11735 Jun 25 13:10	0	
superior conj	11734 Jul 31 12:42	18° Ω 42'31	-0°51'17	morning set	11735 Jul 01 03:39	8° © 57'01	
minimum elong	11734 Jul 31 16:14	18° Ω 59'16	0°51'14	max. Earth dist.	11735 Jul 06 02:24	17° © 09'23	1.40764 AU
asc. node	11734 Aug 06 03:27	29° Ω 33'45			11735 Jul 13 11:40	$0^{\circ}\Omega$	
	11734 Aug 06 08:48	0° m ∕					
evening rise	11734 Aug 09 11:59	6°₩09'37		superior conj	11735 Jul 13 22:03	0° Ω 46'31	-1°24'43
	11734 Aug 23 08:43	0∘ ⊽		minimum elong	11735 Jul 14 03:58	1° Ω 13′04	1°24'36
evening max el	11734 Aug 25 20:10	2° ≏ 47'18	18°57'01	evening rise	11735 Jul 24 02:07	19° Ω 35'26	
retrograde	11734 Sep 03 12:48	7° ≙ 08'01		asc. node	11735 Jul 24 00:16	19° Ω 26'46	
evening set	11734 Sep 05 09:48	6° £ 56'41			11735 Jul 29 17:08	0° m)	
desc. node	11734 Sep 08 14:14	5° Ω 50'25		evening max el	11735 Aug 09 01:50	15° mp 13'03	18°20'54
inferior conj	11734 Sep 13 17:08	2° △ 39'58	-1°36'26	retrograde	11735 Aug 16 12:45	18° m 58'33	10 200.
minimum elong	11734 Sep 13 17:00	2° - 47'12		evening set	11735 Aug 18 15:48	18° m) 40'57	
min. Earth dist.	11734 Sep 16 16:06		0.56467 AU	inferior conj	11735 Aug 16 13:46	14° Mp 03'53	0°05'47
mm. Larm dist.	11734 Sep 17 13:44	30°R, m)	0.50407 AC	minimum elong	11735 Aug 26 04:08	14° Mp 03'29	0°05'25
morning rise	-	-		transit middle	_	14° My 03'29	
Č	11734 Sep 21 13:01	27° Mp 49'15			11735 Aug 26 04:18		0 03 23
direct	11734 Sep 27 02:18	26° Tp 36'04		transit begin	11735 Aug 26 01:00	14° Mp 10'16	
	11734 Oct 06 13:46	0∘ ⊽		transit end	11735 Aug 26 07:36	13° m 56'40	
morning max el	11734 Oct 11 07:29	3° ≏ 54'57	26°05'52	desc. node	11735 Aug 26 11:39	13° m 48'20	
	11734 Oct 30 00:59	0° M		min. Earth dist.	11735 Aug 29 12:09	11° m)20'29	0.58451 AU
asc. node	11734 Nov 02 04:41	5° ™ 51'57		morning rise	11735 Sep 02 13:17	8°m/37'13	
morning set	11734 Nov 08 12:27	18° M 45'42		direct	11735 Sep 08 18:11	6° Mp 55′30	
	11734 Nov 13 15:35	0° ∡ 7		morning max el	11735 Sep 23 02:30	14° m 37'20	27°18'14
					11735 Oct 05 11:42	0∘ ত	
superior conj	11734 Nov 15 08:00	3° ∡ ¹44'29	1°36'20	asc. node	11735 Oct 20 01:27	25° ≏ 23'48	
minimum elong	11734 Nov 15 06:59	3° ∡ ³38'50	1°36'57		11735 Oct 22 07:39	0° M	
max. Earth dist.	11734 Nov 16 06:13	5° ∡ ¹47'36	1.31695 AU	morning set	11735 Oct 23 20:52	3°M15'16	
evening rise	11734 Nov 22 07:36	18° ∡ 54'24					
C	11734 Nov 27 20:05	8°0		superior conj	11735 Oct 30 19:46	18° ™ 29'31	1°27'51
desc. node	11734 Dec 05 11:36	13° る 40'10		minimum elong	11735 Oct 30 17:58	18° ™ 19'27	
	11734 Dec 16 15:18	0° ≈		max. Earth dist.	11735 Oct 30 17:30		1.31354 AU
evening max el	11734 Dec 24 03:33	8° ≈ 21'14	27°22'04	Darur dist.	11735 Nov 05 00:37	0° ⊼	1.5.155 (110
retrograde	11734 Dec 24 03:33 11735 Jan 07 01:17	15°≈37'45	2, 2207	evening rise	11735 Nov 05 00.37 11735 Nov 06 14:00	3° ∡ 21′27	
•				evening rise		3° x '21'2/	
evening set	11735 Jan 14 00:15	13°≈24'29	0.61417.433	4 1	11735 Nov 20 16:19		
min. Earth dist.	11735 Jan 17 18:00		0.61417 AU	desc. node	11735 Nov 22 08:45	2°る40'24	26220144
inferior conj	11735 Jan 20 19:32	7°≈50'43		evening max el	11735 Dec 06 05:34	20°る11'12	26~38'44
minimum elong	11735 Jan 21 01:07	7°≈38'15	2~39'00	retrograde	11735 Dec 20 04:19	27° る 18'48	
morning rise	11735 Jan 28 04:45	2°≈53'05		evening set	11735 Dec 26 19:56	25° ♂ 28'55	0.505-5 :-
asc. node	11735 Jan 29 03:58	2°≈39'24		min. Earth dist.	11735 Dec 30 19:38		0.59275 AU
direct	11735 Jan 30 08:34	2° ≈ 33'18		inferior conj	11736 Jan 02 23:40	20° る 24'14	-4°00'07

minimum elong	11736 Jan 03 07:36	20° ට 08'45	3°56'53	minimum elong	11736 Dec 14 15:59	1° る 59'35	5°06'19
morning rise	11736 Jan 10 22:06	15° る 47'29			11736 Dec 17 19:16	30°₽ ≈	
direct	11736 Jan 13 00:14	15° る 31'48		morning rise	11736 Dec 22 16:22	27° ∡ ¹58'17	
asc. node	11736 Jan 16 01:11	16° පි 06'41		direct	11736 Dec 24 22:34	27° ∡ °43′04	
morning max el	11736 Jan 20 20:01	19° る 23'50	18°16'04		11736 Dec 31 11:16	0°ಕ	
	11736 Jan 28 14:54	0° ≈		asc. node	11737 Jan 01 22:20	1° る 08'39	
morning set	11736 Feb 05 13:28	14° ≈ 25'52		morning max el	11737 Jan 02 22:47	2° る 04'34	19°01'27
	11736 Feb 13 20:47	0° ∀		morning set	11737 Jan 19 12:45	28° る 47'03	
					11737 Jan 20 03:31	0° ≈	
superior conj	11736 Feb 14 23:16	2°) € 00'47	0°26'22				
minimum elong	11736 Feb 15 01:11	2° ∺ 09'27	0°26'29	superior conj	11737 Jan 27 21:53	15° ≈ 12'51	0°55'30
desc. node	11736 Feb 18 08:43	8° ₩ 05'14		minimum elong	11737 Jan 28 00:48	15° ≈ 26'48	0°55'40
max. Earth dist.	11736 Feb 22 13:16	15° ¥ 20′23	1.41153 AU	max. Earth dist.	11737 Feb 03 20:16	28° ≈ 03'20	1.38949 AU
evening rise	11736 Feb 27 06:05	23°) 10′02		desc. node	11737 Feb 04 05:25	28°≈44'09	
	11736 Mar 02 12:21	0° Υ			11737 Feb 04 22:32	0°) {	
	11736 Mar 23 05:29	0°8	22012110	evening rise	11737 Feb 07 16:00	4°) (45'07	
evening max el	11736 Apr 01 07:30	10° 8 38'15	23°12'18		11737 Feb 23 14:34	0°Υ 242 0 222152	2.402.240.0
retrograde	11736 Apr 11 18:01	16° 8 47'46		evening max el	11737 Mar 14 21:21	24° Y 28'53	24°32'09
asc. node	11736 Apr 12 22:36	16° 8 41'06		. 1	11737 Mar 21 23:10	0°8	
evening set	11736 Apr 16 18:37	14° 8 41'35	0.60700 ATT	retrograde	11737 Mar 26 10:02	1° 8 13'12	
min. Earth dist.	11736 Apr 21 16:34	8° 8 53'50 8° 8 15'40	0.68708 AU 2°32'22	1	11737 Mar 30 11:03	30° ₹Υ 29° Υ 45'37	
inferior conj	11736 Apr 22 03:37	8° 8 22'52	2°31'27	asc. node	11737 Mar 30 19:55 11737 Mar 31 22:34	29° \ 45'37 28°\ 54'29	
minimum elong morning rise	11736 Apr 22 01:33	2° 8 08'49	2-31/27	evening set min. Earth dist.	11737 Mar 31 22:34 11737 Apr 05 12:12	28° Y 34'29 23° Y 42'24	0.68272 AU
direct	11736 Apr 27 08:22 11736 May 01 16:54	0° 8 23'27		inferior conj	11737 Apr 05 12.12 11737 Apr 06 11:28	23 1 42 24 22° Y 24'39	1°57'57
morning max el	11736 May 01 10.34 11736 May 10 04:09	5° 8 15'32	21°04'20	minimum elong	11737 Apr 06 09:20	22° Y 31'48	1°57'05
desc. node	11736 May 16 04:09	12° 8 30'11	21 04 20	morning rise	11737 Apr 00 09:20 11737 Apr 11 20:14	16° Y 25'38	1 3/03
desc. Hode	11736 May 10 10.14 11736 May 28 22:12	0° Ⅱ		direct	11737 Apr 11 20:14 11737 Apr 15 16:11	15° Υ 01'42	
morning set	11736 Way 28 22.12 11736 Jun 09 20:07	0 H 18°H07'58		morning max el	11737 Apr 13 10.11 11737 Apr 23 03:30	19° Υ 11'47	19°52'41
morning set	11736 Jun 17 06:31	0°95		morning max ci	11737 Apr 23 03:30	0°8	19 32 41
max. Earth dist.	11736 Jun 17 06:53	0°901'28	1.42856 AU	desc. node	11737 May 01 22:10 11737 May 03 07:00	1° 8 54'51	
max. Lattii dist.	11/30 Juli 1/ 00.33	0 301 20	1.42030 AC	morning set	11737 May 03 07:00 11737 May 19 20:43	26° 8 40'26	
superior conj	11736 Jun 24 10:13	11° © 53'54	-1°53'20	morning set	11737 May 17 20:43	0°Ⅱ	
minimum elong	11736 Jun 24 16:53	12° © 22'14		max. Earth dist.	11737 May 30 18:36	13° Ⅱ 42'59	1.44483 AU
minimum crong	11736 Jul 04 18:37	0°Ω	1 23 33	max. Bartii dist.	11757 May 50 10.50	15 12 12 57	1.11105710
evening rise	11736 Jul 06 02:21	2°Ω22'00		superior conj	11737 Jun 04 22:13	21° Ⅱ 58'47	-2°10'53
asc. node	11736 Jul 09 21:10	9° Ω 07'21		minimum elong	11737 Jun 05 01:37	22° I I12'33	2°11'32
evening max el	11736 Jul 22 13:35	28° Ω 10'49	18°04'49	S	11737 Jun 09 19:45	0°©	
<i>y</i>	11736 Jul 24 17:13	0° m)		evening rise	11737 Jun 18 07:42	14° © 17'19	
retrograde	11736 Jul 29 06:06	1° m)36'18		asc. node	11737 Jun 26 18:05	28° 5 29'43	
evening set	11736 Jul 31 17:03	1° Mp 08'40			11737 Jun 27 16:26	$0^{\circ}\Omega$	
	11736 Aug 02 22:20	30° ₽ Ω		evening max el	11737 Jul 06 03:32	11° Ω 30′18	18°07'43
inferior conj	11736 Aug 07 11:34	26° Ω 11′08	1°25'07	retrograde	11737 Jul 12 12:30	14° Ω 50'41	
minimum elong	11736 Aug 07 13:53	26° Ω 05'37	1°23'51	evening set	11737 Jul 15 07:29	14° Ω 10′18	
min. Earth dist.	11736 Aug 10 16:12	23° Ω 09′53	0.60711 AU	inferior conj	11737 Jul 21 11:45	8° Ω 54'17	2°20'22
desc. node	11736 Aug 12 09:00	21° Q 42'21		minimum elong	11737 Jul 21 14:22	8° Ω 47'12	2°19'04
morning rise	11736 Aug 14 07:55	20° Ω 16′51		min. Earth dist.	11737 Jul 24 05:35	5° Ω 57'20	0.62943 AU
direct	11736 Aug 20 22:08	18° Ω 07'52		morning rise	11737 Jul 27 19:24	2° Ω 42'31	
morning max el	11736 Sep 04 04:41	26° Ω 03'58	27°54'18	desc. node	11737 Jul 30 06:18	1° Ω 12′12	
	11736 Sep 07 20:47	0° m		direct	11737 Aug 03 11:59	0° Ω 12'46	
	11736 Sep 28 00:53	0∘ ⊽		morning max el	11737 Aug 17 12:27	8° Ω 15′03	27°51'50
asc. node	11736 Oct 05 22:12	15° ≏ 11'36			11737 Sep 03 06:53	0° m)	
morning set	11736 Oct 07 00:51	17° ≏ 29'06			11737 Sep 20 05:59	0∘ ⊽	
	11736 Oct 12 20:37	0° M		morning set	11737 Sep 20 22:15	1° ≏ 21'48	
max. Earth dist.	11736 Oct 12 23:05	0° ™ 13'39	1.31515 AU	asc. node	11737 Sep 22 18:55	5° ≏ 10'02	
	110000 - 11 - 11	20M 00:	1010150	max. Earth dist.	11737 Sep 26 02:35	12° ≏ 09'40	1.32181 AU
superior conj	11736 Oct 14 06:42	3°M08'29	1°13'50				
minimum elong	11736 Oct 14 04:29	2°M56'12	1°13'52	superior conj	11737 Sep 28 14:57	17° Ω 35'59	0°54'26
evening rise	11736 Oct 20 23:48	17°M55'41		minimum elong	11737 Sep 28 12:48	17° £ 24′20	0°54'13
1 1	11736 Oct 26 20:20	0° ₹			11737 Oct 04 06:59	0°M 20 m 21145	
desc. node	11736 Nov 08 05:58	20° ₹ 51'21		evening rise	11737 Oct 05 11:06	2°M31'45	
avanie 1	11736 Nov 15 19:16	0°る	25022127	daga J-	11737 Oct 20 04:59	0° द्र ⁷ 7° • ₹ 4'20	
evening max el	11736 Nov 16 23:25	1°る09'10 8°る07'14	25°23'26	desc. node	11737 Oct 26 03:15	7° x ⁷ 54'29	22047101
retrograde	11736 Nov 30 20:03	8°る07'14 6°る47'35		evening max el	11737 Oct 29 10:32	11° х 25'35 18° х 10'57	23 4/01
evening set min. Earth dist.	11736 Dec 06 17:56 11736 Dec 11 11:35		0.57255 AU	retrograde	11737 Nov 11 23:23	18°×'10'57 17°×'23'07	
	11/36 Dec 11 11:35 11736 Dec 14 08:14	4°808'24 2° る 12'41		evening set min. Earth dist.	11737 Nov 16 15:47 11737 Nov 22 20:53	1/° x '23'07 14° x '22'37	0.55631 AU
inferior conj	11/30 DCC 14 U8.14	2 01241	-5 00 40	mm. Earth tist.	11/3/ NOV 44 40.33	17 X 223/	0.55051 AU

inferior conj	11737 Nov 24 20:23	13° ∡ 11'45	-5°48'02	inferior conj	11738 Nov 04 16:36	23°M28'50	-5°36'40
minimum elong	11737 Nov 24 22:54	13° ∡ '07'59	5°47'12	minimum elong	11738 Nov 04 10:38	23°M37'14	5°35'21
morning rise	11737 Dec 03 07:55	9° ∡ 17′00		morning rise	11738 Nov 13 01:52	19° M 41'48	
direct	11737 Dec 06 01:21	8° ∡ ¹58'25		direct	11738 Nov 16 12:35	19° M ₊15'28	
morning max el	11737 Dec 16 13:12	13° ∡ 57'45	20°09'38	morning max el	11738 Nov 28 13:40	24°M58'29	21°39'44
asc. node	11737 Dec 19 19:24	17° ∡ ³31'48		S	11738 Dec 03 02:35	0° ∡ ¹	
	11737 Dec 27 21:32	0°る		asc. node	11738 Dec 06 16:24	4° х 58'48	
morning set	11737 Dec 27 21:32 11738 Jan 03 18:32	13° る 24'20		morning set	11738 Dec 19 04:13	28°×709'23	
morning set	11/36 Jan 03 16.32	13 02420		morning set		28 x 09 23 0°る	
	11520 1 11 10 10	200700110	101650		11738 Dec 20 01:16	0.0	
superior conj	11738 Jan 11 10:19		1°16'53				
minimum elong	11738 Jan 11 13:01		1°17'16	superior conj	11738 Dec 26 08:34	13° ठ 19'28	1°30'49
	11738 Jan 11 21:39	0° ≈		minimum elong	11738 Dec 26 10:23	13° る 29'00	1°31'27
max. Earth dist.	11738 Jan 17 03:16	10° ≈ 12′05	1.36759 AU	max. Earth dist.	11738 Dec 30 14:48	22° る 03'57	1.34804 AU
evening rise	11738 Jan 20 21:45	17° ≈ 11'05		evening rise	11739 Jan 03 19:53	0° ≈ 18′27	
desc. node	11738 Jan 22 02:12	19° ≈ 18'55			11739 Jan 03 16:01	0° ≈	
	11738 Jan 28 07:25	0°) €		desc. node	11739 Jan 08 23:02	9° ≈ 44'38	
	11738 Feb 17 23:36	0° Y			11739 Jan 21 09:53	0° ₩	
evening max el	11738 Feb 25 10:42	8° Y 19'21	25°45'10	evening max el	11739 Feb 08 00:11	22° ₩ 03'21	26°44'13
retrograde	11738 Mar 09 21:31	15° Υ 28'31	20 10 10	retrograde	11739 Feb 21 03:43	29°\t25'46	2013
evening set	11738 Mar 15 21:51	13° Υ 00'18		evening set	11739 Feb 27 14:37	26°\ 52'52	
asc. node	11738 Mar 17 17:14	13 γ 00 18		min. Earth dist.	11739 Mar 03 15:35	20 \(\frac{1}{32}\) 32 32 22°\(\frac{1}{4}\) 49'58	0.66146 AU
			0.67411.411				0.00140 AU
min. Earth dist.	11738 Mar 20 04:35	8°Υ23'23	0.67411 AU	asc. node	11739 Mar 04 14:34	21°) 42'43	
inferior conj	11738 Mar 21 15:58	6° Y 31'16	1°13'48	inferior conj	11739 Mar 05 14:59	20°) 30′24	0°19'43
minimum elong	11738 Mar 21 14:18	6° Ƴ 36'33	1°13'12	minimum elong	11739 Mar 05 14:27	20° ∺ 31'59	0°19'42
morning rise	11738 Mar 27 07:19	0° Ƴ 41'29		morning rise	11739 Mar 11 15:26	14° ∺ 51'41	
	11738 Mar 28 15:55	30° Ŗ ₩		direct	11739 Mar 14 13:23	14°) €04'42	
direct	11738 Mar 30 15:36	29°) 37′28		morning max el	11739 Mar 20 23:47	17° ¥ 29'17	18°15'50
	11738 Apr 01 16:37	$0^{\circ}\Upsilon$			11739 Mar 30 10:43	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	11738 Apr 06 10:34	3° Ƴ 18'27	18°56'02	desc. node	11739 Apr 07 00:23	11° Y ′56'52	
greatest brilliancy	11738 Apr 20 01:26	21° Y '37'36	-0.8m	morning set	11739 Apr 09 10:01	15° Ƴ 47'44	
desc. node	11738 Apr 20 03:43	21° Y 46'15	0.0111	morning sec	11739 Apr 18 08:05	0°8	
dese. Hode	11738 Apr 25 12:15	0°8			11737 Apr 10 00.03	v O	
morning set	11738 Apr 29 03:08	5° 8 36'41		superior conj	11739 Apr 24 20:07	10° 8 13'16	1950122
-	=		1 45 470 ATT			9° 8 37'30	
max. Earth dist.	11738 May 13 11:27	27° 8 57'45	1.45470 AU	minimum elong	11739 Apr 24 10:59	. •	
	11738 May 14 18:37	Π $^{\circ}$ 0		max. Earth dist.	11739 Apr 26 06:44		1.45724 AU
		_			11739 May 07 12:22	0∘Щ	
superior conj	11738 May 15 13:12	1° Ⅱ 13'00		evening rise	11739 May 10 20:27	5° Ⅱ 12'31	
minimum elong	11738 May 15 09:18	0° Ⅱ 57'39	2°11'16	greatest brilliancy	11739 May 21 20:59	22° Ⅱ 18'36	-0.8m
evening rise	11738 May 30 13:54	25° Ⅱ 13'14			11739 May 27 01:48	0 \circ \odot	
	11738 Jun 02 12:34	0 \circ \odot		asc. node	11739 May 31 12:08	5° © 52'43	
asc. node	11738 Jun 13 15:04	17° 5 27'31		evening max el	11739 Jun 03 02:13	8°9545'23	19°07'13
evening max el	11738 Jun 19 16:33	25°503'41	18°28'48	retrograde	11739 Jun 09 23:38	12° © 35'34	
retrograde	11738 Jun 26 03:31	28°932'41		evening set	11739 Jun 13 11:20	11° © 24'54	
evening set	11738 Jun 29 06:39	27° © 37'43		inferior conj	11739 Jun 18 22:30	5° © 37'39	3°11'57
inferior conj	11738 Jul 05 00:34	22° © 05'16	2°54'43	minimum elong	11739 Jun 18 23:21	5° © 34'52	3°11'06
minimum elong	11738 Jul 05 02:30	21°959'29	2°53'39	min. Earth dist.	11739 Jun 20 11:28	3°938'46	0.66580 AU
min. Earth dist.	11738 Jul 07 04:22	19°930'59		iiiii. Eartii tiist.	11739 Jun 23 15:36	30°RⅡ	0.00380 AU
			0.64945 AU				
morning rise	11738 Jul 10 21:16	15°9544'56		morning rise	11739 Jun 24 10:47	29° Ⅱ 15'13	
direct	11738 Jul 17 10:20	13° © 03'55		direct	11739 Jun 30 15:52	26° Ⅲ 33'27	
desc. node	11738 Jul 17 03:32	13° © 04'12		desc. node	11739 Jul 04 00:42	27° Ⅱ 13'37	
morning max el	11738 Jul 30 23:02	21° © 01'11	27°14'33		11739 Jul 08 18:14	0 \circ	
	11738 Aug 07 17:32	0 \circ Ω		morning max el	11739 Jul 13 09:51	4° © 10'30	26°10'10
	11738 Aug 27 10:23	0° m y			11739 Aug 02 02:42	$0^{\circ}\Omega$	
morning set	11738 Sep 04 10:20	14° m) 45'38		morning set	11739 Aug 18 09:45	27° Ω 32'39	
max. Earth dist.	11738 Sep 08 21:37	23° Mp 41'28	1.33366 AU		11739 Aug 19 17:14	0° m y	
asc. node	11738 Sep 09 15:35	25° m 13'57		max. Earth dist.	11739 Aug 22 06:09	4° mp 51'18	1.35054 AU
	11738 Sep 11 22:24	0∘ ⊽				-	
	1			superior conj	11739 Aug 27 14:27	15° mp 30'56	0°00'52
superior conj	11738 Sep 12 18:20	1° ≏ 45'22	0°29'57	minimum elong	11739 Aug 27 14:25	15° m/30'44	0°00'36
minimum elong	11738 Sep 12 16:53	1° ⊆ 37'43		behind sun begin	11739 Aug 27 14:25 11739 Aug 27 08:25	15° m 00'09	3 00 50
Č	-		0 2/30	behind sun begin	-		
evening rise	11738 Sep 19 21:57	17° ≏ 03'23			11739 Aug 27 20:24	16° Mp 01'23	
	11738 Sep 26 07:01	0°M	22006125	asc. node	11739 Aug 27 12:18	15° m 19'55	
evening max el	11738 Oct 10 22:21	21°M30'26	22°06'25		11739 Sep 03 13:53	0∘ ʊ	
desc. node	11738 Oct 13 00:35	23°M23'59		evening rise	11739 Sep 04 06:25	1° ≏ 25'50	
retrograde	11738 Oct 23 15:26	27° M 49'42			11739 Sep 20 23:04	0° M	
evening set	11738 Oct 26 20:45	27°M26'36		evening max el	11739 Sep 22 20:20	2°M01'20	20°37'07
min. Earth dist.	11738 Nov 04 03:46	23°M46'52	0.54696 AU	desc. node	11739 Sep 29 21:57	6° ™ 51'00	

	11720 0-4 04 02.40	70 m 26151			11740 C 04 00:17	120 0 17124	10027110
retrograde	11739 Oct 04 02:40	7°M36'51		evening max el	11740 Sep 04 08:17	13° 2 17'34	19°27'18
evening set	11739 Oct 06 06:59	7°M25'12	4007104	retrograde	11740 Sep 13 21:56	18° Ω 03'31	
inferior conj	11739 Oct 15 08:45	3°M29'48		evening set	11740 Sep 15 18:19	17° £ 53'38	
minimum elong	11739 Oct 14 22:44	3°M44'14		desc. node	11740 Sep 15 19:21	17° ≏ 53'10	
min. Earth dist.	11739 Oct 16 11:31		0.54673 AU	inferior conj	11740 Sep 24 11:12	13° ≏ 47'12	
	11739 Oct 22 04:08	30°Ŗ Ω		minimum elong	11740 Sep 24 04:07	13° ≏ 58'36	
morning rise	11739 Oct 23 14:11	29° ≏ 30'55		min. Earth dist.	11740 Sep 26 22:09		0.55587 AU
direct	11739 Oct 27 21:05	28° ≏ 51'23		morning rise	11740 Oct 02 11:37	9° ≏ 18'32	
	11739 Nov 02 09:41	0° M		direct	11740 Oct 07 14:35	8° 亞 19'30	
morning max el	11739 Nov 10 03:22	5° ™ 17'07	23°25'06	morning max el	11740 Oct 21 13:57	15° ≏ 20'39	25°11'32
asc. node	11739 Nov 23 13:21	23°M14'54			11740 Nov 02 06:59	0° M	
	11739 Nov 27 06:46	0° ⊀		asc. node	11740 Nov 09 10:13	12°ML07'50	
morning set	11739 Dec 03 15:48	12° ∡ 56'32		morning set	11740 Nov 17 03:31	27° M 40'52	
					11740 Nov 18 05:20	0° ∡	
superior conj	11739 Dec 10 13:33	27° ∡ 52′50	1°37'53				
minimum elong	11739 Dec 10 14:15	27° х 56′33	1°38'39	superior conj	11740 Nov 23 22:48	12° ∡ ³35'42	1°38'37
	11739 Dec 11 13:12	0° ප		minimum elong	11740 Nov 23 22:21	12° ∡ ³33′17	1°39'20
max. Earth dist.	11739 Dec 13 10:09	3° る 59'12	1.33233 AU	max. Earth dist.	11740 Nov 25 13:05	16° ∡ ¹06′02	1.32116 AU
evening rise	11739 Dec 18 06:52	13° る 58'18		evening rise	11740 Dec 01 03:29	28° ∡ ¹02'14	
desc. node	11739 Dec 26 19:56	29° る 56'26		-	11740 Dec 02 02:28	0° ට	
	11739 Dec 26 20:45	0° ≈		desc. node	11740 Dec 12 16:56	19° る 47'58	
	11740 Jan 16 08:29	0°) €			11740 Dec 19 02:08	0° ≈	
evening max el	11740 Jan 21 13:21	5°) €31'58	27°21'55	evening max el	11741 Jan 03 00:19	18° ≈ 32'38	27°31'31
retrograde	11740 Feb 04 03:36	12°) 56'42		retrograde	11741 Jan 16 20:10	25°≈52'32	
evening set	11740 Feb 10 22:44	10°) 25'24		evening set	11741 Jan 23 19:32	23°≈30'25	
min. Earth dist.	11740 Feb 14 19:09		0.64526 AU	min. Earth dist.	11741 Jan 27 13:20		0.62612 AU
inferior conj	11740 Feb 17 06:05	4°) 16′26		inferior conj	11741 Jan 30 10:22	20 ≈ 2737 17° ≈ 42'11	
minimum elong	11740 Feb 17 00:05	4°) 12'49		minimum elong	11741 Jan 30 14:18	17°≈32'45	1°54'49
asc. node	11740 Feb 17 07:20	1° H 57'16	0 43 17	asc. node	11741 Feb 05 09:13	17 ≈32 43 13°≈00'59	1 3449
asc. Houc	11740 Feb 21 18:42						
		30°R≈		morning rise	11741 Feb 06 11:31	12°≈33'19	
morning rise	11740 Feb 23 17:59	28°≈51'05		direct	11741 Feb 08 18:07	12°≈09'27	17046156
direct	11740 Feb 26 07:13	28°≈17'32		morning max el	11741 Feb 15 10:15		17°46'56
	11740 Mar 01 19:33	0°){	1505010 6		11741 Feb 25 13:36	0°) {	
morning max el	11740 Mar 03 16:41	1°) (36′57	17°52'36	morning set	11741 Mar 03 09:41	10°) €08'57	
morning set	11740 Mar 20 21:44	27°) 23'25		desc. node	11741 Mar 10 17:39	22°) 54'32	
	11740 Mar 22 11:12	0°Υ			11741 Mar 14 22:12	0° Υ	
desc. node	11740 Mar 23 21:01	2° Y 20'59					
				superior conj	11741 Mar 15 03:40	0° Υ 22'54	
superior conj	11740 Apr 03 12:47	19° Ƴ 45'49		minimum elong	11741 Mar 15 00:21	0° Y ′09′02	
minimum elong	11740 Apr 03 04:56	19° Y 14'19		max. Earth dist.	11741 Mar 21 19:53	11° Υ 18'50	1.44070 AU
max. Earth dist.	11740 Apr 08 02:16	27° Y ′00′31	1.45239 AU	evening rise	11741 Mar 29 23:22	24° Y ′08'20	
	11740 Apr 09 23:58	0°8			11741 Apr 02 19:12	0°8	
evening rise	11740 Apr 19 10:39	14° 8 37'39			11741 Apr 23 19:02	Π °0	
	11740 Apr 29 13:53	Π $^{\circ}0$		evening max el	11741 Apr 29 05:44	6° Ⅱ 16′14	21°09'05
greatest brilliancy	11740 May 04 10:05	7° Ⅱ 09'00	-0.6m	asc. node	11741 May 04 06:32	10° Ⅱ 17′26	
evening max el	11740 May 16 06:49	22° Ⅲ 30′16	20°01'33	retrograde	11741 May 07 20:44	11° Ⅱ 18'50	
asc. node	11740 May 17 09:18	23° Ⅲ 33'51		evening set	11741 May 12 03:51	9° Ⅱ 35'46	
retrograde	11740 May 23 22:03	26° Ⅲ 52'36		inferior conj	11741 May 17 10:14	3° Ⅲ 23′13	3°06'43
evening set	11740 May 27 19:03	25° Ⅱ 25'41		minimum elong	11741 May 17 09:03	3° Ⅱ 27'19	3°05'56
inferior conj	11740 Jun 02 02:32	19° Ⅲ 25′00	3°15'14	min. Earth dist.	11741 May 17 19:04	2° Ⅲ 52'32	0.68506 AU
minimum elong	11740 Jun 02 02:17	19° Ⅱ 25'49	3°14'28		11741 May 19 22:33	30° ₹ 8	
min. Earth dist.	11740 Jun 03 01:02	18° Ⅲ 08'53	0.67776 AU	morning rise	11741 May 22 14:03	27° 8 07'01	
morning rise	11740 Jun 07 09:11	13° Ⅲ 04'31		direct	11741 May 27 19:21	24° 8 49'47	
direct	11740 Jun 13 03:14	10° Ⅲ 31'30			11741 Jun 06 04:26	Π°	
desc. node	11740 Jun 19 21:47	13° Ⅱ 12'58		desc. node	11741 Jun 06 18:47	0° Ⅱ 34'43	
morning max el	11740 Jun 24 19:46	17° Ⅲ 32'16	24°48'19	morning max el	11741 Jun 07 05:51	1° Ⅱ 02'17	23°18'55
	11740 Jul 05 05:41	0.ಪ			11741 Jun 29 03:23	0.ಪ	
	11740 Jul 25 03:02	$0 {\circ} {\mathcal O}$		morning set	11741 Jul 12 00:42	20°529'36	
morning set	11740 Jul 30 16:10	9° Ω 31'20		max. Earth dist.	11741 Jul 16 03:33	20 3 29 30 27° 9 30'57	1.39459 AU
max. Earth dist.	11740 Jul 30 10:10	15° Ω 57'26	1.37152 AU	max. Darui dist.	11741 Jul 17 13:41	0°Ω	1.57757 AU
max. Earm Wist.	11/70 Aug 03 00.04	10 060/20	1.5 / 152 AU		11/71 Jul 1/ 13.41	· 06	
superior conj	11740 Aug 10 00:11	28° Ω 44'32	-0°31'42	superior conj	11741 Jul 23 19:42	11° Ω 17'00	-1°05'43
minimum elong	11740 Aug 10 00:11	28° Ω 54'42		minimum elong	11741 Jul 24 00:18	11°Ω38'23	1°05'37
ciong	11740 Aug 10 02:10	0° m)	3 31 70	asc. node	11741 Jul 24 00:18	25°Ω22'16	1 00 01
asc. node	11740 Aug 10 13.30 11740 Aug 13 09:01	5° Mg 23'54		evening rise	11741 Aug 02 06:18	29° Ω 16'20	
evening rise	11740 Aug 13 09:01 11740 Aug 18 10:10	15° Mp 32'35		evening rise	11741 Aug 02 00:18 11741 Aug 02 15:22	0° mp	
evening 1150	11740 Aug 18 10.10 11740 Aug 25 23:02	0° ⊽		evening max el	11741 Aug 02 13.22 11741 Aug 18 08:31	رانا 25° m) 19'59	18°39'02
	11/70 Aug 23 23.02	· –		Croning max ci	11/71 Aug 10 00.31	20 IV 1909	10 3702

retrograde	11741 Aug 26 11:03	29° m 24'02			11742 Jul 26 14:20	0° m p	
evening set	11741 Aug 28 10:16	29° m) 10'28		evening max el	11742 Jul 20 14:20 11742 Aug 01 17:12	8° Mp 00'42	18°11'38
desc. node	11741 Aug 28 10:10 11741 Sep 02 16:45	26° Mp 41'13		retrograde	11742 Aug 01 17:12 11742 Aug 08 19:06	11° Mp 36'17	10 11 30
inferior conj	11741 Sep 02 10:43 11741 Sep 05 09:33	24° m/44'50	-0°50'39	evening set	11742 Aug 11 01:19	11° Mp 14'55	
minimum elong	11741 Sep 05 07:29	24° Mp 48'42	0°49'59	inferior conj	11742 Aug 18 05:41	6° Mp 28'49	0°42'27
min. Earth dist.	11741 Sep 03 07:23 11741 Sep 08 14:01	22° m/22'04	0.57259 AU	minimum elong	11742 Aug 18 07:03	6° Mp 25'49	0°41'35
morning rise	11741 Sep 13 01:18	19° m 38'24	0.57257110	desc. node	11742 Aug 20 14:07	4° Mp 24'30	0 1130
direct	11741 Sep 18 21:49	18° Mp 13'37		min. Earth dist.	11742 Aug 21 13:24	3° m) 34'59	0.59391 AU
morning max el	11741 Oct 03 04:58	25° m/42'28	26°40'50	morning rise	11742 Aug 25 09:28	0° mp 48'48	
5 5	11741 Oct 07 05:45	0∘ ⊽		<i>5 5 1 1</i>	11742 Aug 26 23:12	30°R Ω	
	11741 Oct 26 12:57	0°M		direct	11742 Aug 31 18:55	28° Ω 55'13	
asc. node	11741 Oct 27 07:02	1°M27'58			11742 Sep 05 19:04	0° m/	
morning set	11741 Nov 01 13:37	12°M17'20		morning max el	11742 Sep 15 03:27	6° m) 44'35	27°38'27
C				C	11742 Oct 02 14:56	0∘ ⊽	
superior conj	11741 Nov 08 10:09	27°M21'31	1°33'26	asc. node	11742 Oct 14 03:47	21° ≏ 07'53	
minimum elong	11741 Nov 08 08:45	27°M13'46	1°33'56	morning set	11742 Oct 16 20:24	26° ≏ 41'33	
max. Earth dist.	11741 Nov 08 20:51	28°M21'09	1.31487 AU		11742 Oct 18 09:44	0° M .	
	11741 Nov 09 14:37	0° ∡ ¹		max. Earth dist.	11742 Oct 23 05:54	10°MJ36'42	1.31356 AU
evening rise	11741 Nov 15 06:57	12° ∡ 22'32					
	11741 Nov 24 05:42	ರ∘ರ		superior conj	11742 Oct 23 21:46	12°ML05'02	1°22'35
desc. node	11741 Nov 29 14:02	9° ට 10'13		minimum elong	11742 Oct 23 19:44	11° M 53'43	1°22'47
	11741 Dec 15 09:14	0° ≈		evening rise	11742 Oct 30 15:02	26°M53'33	
evening max el	11741 Dec 16 06:17	0° ≈ 50'53	27°07'55		11742 Nov 01 02:07	0° ∡ ¹	
retrograde	11741 Dec 30 04:19	8° ≈ 03'11		desc. node	11742 Nov 16 11:12	27° ∡ 751′51	
evening set	11742 Jan 06 01:32	5° ≈ 58'43			11742 Nov 17 22:14	0°ರ	
min. Earth dist.	11742 Jan 09 20:42	3° ≈ 16′17	0.60507 AU	evening max el	11742 Nov 28 04:40	12° る 17'53	26°10'07
inferior conj	11742 Jan 13 00:19	0° ≈ 37'18	-3°15'18	retrograde	11742 Dec 12 02:54	19° る 22'12	
minimum elong	11742 Jan 13 07:02	0° ≈ 23'07	3°12'11	evening set	11742 Dec 18 12:32	17° る 44'09	
	11742 Jan 13 18:05	30°Ŗ₹		min. Earth dist.	11742 Dec 22 17:45	15° る 08'43	0.58385 AU
morning rise	11742 Jan 20 15:21	25° ප් 48'18		inferior conj	11742 Dec 25 20:22	12° る 52'19	-4°31'23
direct	11742 Jan 22 18:04	25° පි 30'35		minimum elong	11742 Dec 26 04:42	12° る 37'02	4°28'20
asc. node	11742 Jan 23 06:29	25° ප 31'41		morning rise	11743 Jan 02 23:37	8° ප 25'30	
morning max el	11742 Jan 30 01:07	29° る 09'22	17°59'48	direct	11743 Jan 05 02:37	8° ප 10'31	
	11742 Jan 30 20:48	0° ≈		asc. node	11743 Jan 10 03:39	9° ට 40'22	
morning set	11742 Feb 14 15:21	23° ≈ 43′21		morning max el	11743 Jan 13 09:29	12° る 13'43	18°32'45
	11742 Feb 18 01:08	0°) €			11743 Jan 25 06:20	0° ≈	
				morning set	11743 Jan 29 09:21	7° ≈ 50'41	
superior conj	11742 Feb 24 19:06	12°) €08'53	0°06'14				
minimum elong	11742 Feb 24 19:39	12° ∺ 11'16	0°06'27	superior conj	11743 Feb 07 07:43	24° ≈ 53'32	
behind sun begin	11742 Feb 24 12:18	11°) 38′54		minimum elong	11743 Feb 07 10:15	25° ≈ 05'15	0°39'45
behind sun end	11742 Feb 25 03:00	12°) (43′33			11743 Feb 10 02:32	0° ∀	
desc. node	11742 Feb 25 14:18	13°) 33′00		desc. node	11743 Feb 12 10:59	4°) 12′54	
max. Earth dist.	11742 Mar 04 09:11	25° ∺ 06′29	1.42331 AU	max. Earth dist.	11743 Feb 14 17:26	8° ¥ 11'30	1.40226 AU
	11742 Mar 07 08:46	0° Υ		evening rise	11743 Feb 18 22:15	15°) 19'47	
evening rise	11742 Mar 10 00:42	4° Y 16′54			11743 Feb 28 02:28	0° Υ	
	11742 Mar 27 02:55	0°8			11743 Mar 21 23:47	0° 8	
evening max el	11742 Apr 11 23:34	20° 8 02'56	22°25'53	evening max el	11743 Mar 25 14:08	3° 8 51'42	23°46'34
asc. node	11742 Apr 21 03:49	25° 8 47'21		retrograde	11743 Apr 05 12:21	10° 8 17'50	
retrograde	11742 Apr 21 17:57	25° 8 49'00		asc. node	11743 Apr 08 01:07	9° 8 48'02	
evening set	11742 Apr 26 12:00	23° 8 50'40		evening set	11743 Apr 10 17:57	8° 8 05'53	
inferior conj	11742 May 01 19:30	17° 8 28'33	2°47'45	min. Earth dist.	11743 Apr 15 12:05	2° 8 33'15	0.68574 AU
minimum elong	11742 May 01 17:39	17° 8 35'00	2°46'53	inferior conj	11743 Apr 16 04:24	1° 8 37'30	2°18'58
min. Earth dist.	11742 May 01 15:28	17° 8 42'35	0.68766 AU	minimum elong	11743 Apr 16 02:15	1° 8 44'53	2°18'03
morning rise	11742 May 06 23:10	11° 8 17'59			11743 Apr 17 09:15	30° ₹ Υ	
direct	11742 May 11 15:08	9° 8 20'40		morning rise	11743 Apr 21 10:33	25° Y 33'45	
morning max el	11742 May 20 18:55	14° 8 41'12	21°51'07	direct	11743 Apr 25 13:31	23° Y 57'46	20022106
desc. node	11742 May 24 15:41	18° 8 56'32		morning max el	11743 May 03 13:57	28° Y 31′02	20°32'06
	11742 Jun 02 03:06	0°II			11743 May 05 00:11	0°8	
morning set	11742 Jun 22 07:35	0°519'06		desc. node	11743 May 11 12:31	8° 8 02'03	
n a e	11742 Jun 22 02:48	0°95	1 41600 433		11743 May 26 16:10	0°II	
max. Earth dist.	11742 Jun 28 04:32	9° 9 53'07	1.41698 AU	morning set	11743 Jun 01 15:17	9° I 108'09	1 40 61 4 177
	11740 1 1 05 50 5	220	1025145	max. Earth dist.	11743 Jun 10 11:46	23° Ⅱ 06'14	1.43614 AU
superior conj	11742 Jul 05 20:32	22°958'06			11743 Jun 14 17:34	0ං ව	
minimum elong	11742 Jul 06 03:06	23°926'55	1~3/46		11742 7 17 22 22	20520110	200212.4
	11742 Jul 09 19:30	0°N		superior conj	11743 Jun 16 22:30	3°538'49	
evening rise	11742 Jul 16 15:07	12° Ω 27'30		minimum elong	11743 Jun 17 04:24	4°503'19	2~02'59
asc. node	11742 Jul 18 02:38	15° Ω 10′59		evening rise	11743 Jun 29 07:57	24° © 53'51	

	11742 I-1 02 05.51	000			11744 I 24 22.11	000	
	11743 Jul 02 05:51	0° N			11744 Jun 24 23:11	0° N	10014120
asc. node	11743 Jul 04 23:31	4° Ω 44'38	10000115	evening max el	11744 Jun 28 20:18	4°Ω36'11	18°14'30
evening max el	11743 Jul 16 06:17	21°Ω08'51	18°03'47	retrograde	11744 Jul 05 04:55	7° Ω 58'16	
retrograde	11743 Jul 22 18:30	24° Ω 30'32		evening set	11744 Jul 08 03:24	7° Ω 11'50	
evening set	11743 Jul 25 08:45	23° Ω 57'55		inferior conj	11744 Jul 14 02:50	1° Ω 48'53	
inferior conj	11743 Jul 31 20:46	18° Ω 52'33	1°51'21	minimum elong	11744 Jul 14 05:14	1° Ω 42'04	2°36'01
minimum elong	11743 Jul 31 23:23	18° Ω 45'57	1°50'00		11744 Jul 15 17:13	30° ₹ ∽	
min. Earth dist.	11743 Aug 03 21:33	15° Ω 50′13	0.61675 AU	min. Earth dist.	11744 Jul 16 15:01	28° © 59'31	0.63841 AU
morning rise	11743 Aug 07 11:33	12° Ω 49'24		morning rise	11744 Jul 20 05:35	25° © 32'44	
desc. node	11743 Aug 07 11:28	12° Ω 49'33		desc. node	11744 Jul 24 08:44	23° © 18'28	
direct	11743 Aug 14 03:36	10° Ω 30'14		direct	11744 Jul 26 21:30	22° © 56'38	
morning max el	11743 Aug 28 08:20	18° Ω 31′07	27°57'48		11744 Aug 08 17:49	0 $^{\circ}$ Ω	
	11743 Sep 07 00:25	0° m y		morning max el	11744 Aug 09 17:25	0° Ω 58′05	27°39'39
	11743 Sep 25 10:55	0∘ ত			11744 Aug 31 03:34	0° m)	
morning set	11743 Sep 30 21:50	10° ₽ 47'07		morning set	11744 Sep 13 15:36	24° m 28'20	
asc. node	11743 Oct 01 00:29	11° ≏ 00'47			11744 Sep 16 09:09	0∘ ত	
max. Earth dist.	11743 Oct 06 12:15	22° ₽ 41′06	1.31730 AU	asc. node	11744 Sep 16 21:11	1° ≏ 02'06	
				max. Earth dist.	11744 Sep 18 12:20	4° ₽ 26'24	1.32625 AU
superior conj	11743 Oct 08 07:46	26° ₽ 39'47	1°06'15		-		
minimum elong	11743 Oct 08 05:31	26° ₽ 27'23	1°06'10	superior conj	11744 Sep 21 14:14	11° ≏ 00'32	0°44'39
Č	11743 Oct 09 20:02	0°M		minimum elong	11744 Sep 21 12:18	10° ≏ 50'10	0°44'21
evening rise	11743 Oct 15 01:39	11°M28'50		evening rise	11744 Sep 28 12:58	26° ₽ 03'40	
Č	11743 Oct 24 08:17	0° ∡ ¹		Č	11744 Sep 30 09:37	0° M .	
desc. node	11743 Nov 03 08:26	15° ∡ ³36'33			11744 Oct 18 08:45	0° ∡ ¹	
evening max el	11743 Nov 09 18:58	22° × 755'09	24°44'06	desc. node	11744 Oct 20 05:43	2° х ⁷ 03′12	
retrograde	11743 Nov 23 13:50	29° х 49'19		evening max el	11744 Oct 21 05:23		23°03'41
evening set	11743 Nov 29 00:11	28° × ⁷ 43'38		retrograde	11744 Nov 03 11:37	9° × 738'14	25 05 .1
min. Earth dist.	11743 Dec 04 06:41	25° × 1536	0.56492 AU	evening set	11744 Nov 07 12:52	9° × 702'34	
inferior conj	11743 Dec 04 00:41	24°×719'28		min. Earth dist.	11744 Nov 14 14:37		0.55134 AU
minimum elong	11743 Dec 07 02:15		5°28'41	inferior conj	11744 Nov 16 00:25	4° ×7' 58'43	
morning rise	11743 Dec 07 02:13	20° × 14'06	3 2041	minimum elong	11744 Nov 16 00.23	5° ∡ 100'17	
direct	11743 Dec 13 00:29	19° ∡ 58'05		morning rise	11744 Nov 13 23:19 11744 Nov 24 11:22	1°×7'08'52	3 49 43
morning max el	11743 Dec 17 10:17 11743 Dec 27 07:23	24° × 35'16	19°27'40	direct	11744 Nov 24 11:22 11744 Nov 27 11:45	0° ₹ 47′24	
asc. node	11743 Dec 27 07:23 11743 Dec 28 00:45	25° × 18'32	19 27 40	morning max el	11744 Nov 27 11:43 11744 Dec 08 15:42		20°45'30
asc. Houe	11743 Dec 28 00.45	25 メ ・18 32 0° る		asc. node	11744 Dec 08 13.42 11744 Dec 13 21:49	12° х 10'41	20 43 30
mamina aat	11743 Dec 31 21.46 11744 Jan 13 11:42	0 る 22°る19'18		asc. node		12 x・1041 0°る	
morning set		0°≈		marning act	11744 Dec 24 08:30	0 3 7° ろ 00'32	
	11744 Jan 17 07:19	0 ≈		morning set	11744 Dec 27 19:24	/ 30032	
superior conj	11744 Jan 21 12:41	8°≈23'05	1°05'29	superior conj	11745 Jan 04 05:40	22° る 25'12	1023140
minimum elong	11744 Jan 21 15:37	8°≈37'26	1°05'45	minimum elong	11745 Jan 04 08:03	22° る 37'23	1°24'10
max. Earth dist.	11744 Jan 27 23:20	20°≈35'54	1.37997 AU	minimum clong	11745 Jan 08 00:07	0° ≈	1 24 10
desc. node	11744 Jan 30 07:43	20 ≈50'38 24°≈50'38	1.37997 AU	max. Earth dist.	11745 Jan 09 07:52	0 ∞ 2°≈35'24	1.35888 AU
					11745 Jan 13 06:04		1.33666 AU
evening rise	11744 Jan 31 16:55	27°≈17'34 0°) €		evening rise		10°≈02'15	
	11744 Feb 02 06:15	0° Υ 0° Υ		desc. node	11745 Jan 16 04:28	15°≈22'00	
	11744 Feb 21 13:55		25004125		11745 Jan 24 20:52	0° ℋ 0° Ƴ	
evening max el	11744 Mar 07 03:39	17° ℃ 43'07	25°04'35		11745 Feb 16 04:27		26912126
retrograde	11744 Mar 19 02:40	24° Y 39'53 22° Y 16'53		evening max el	11745 Feb 17 17:17	1° Y 32'36 8° Y 48'11	26°12'36
evening set	11744 Mar 24 20:08			retrograde	11745 Mar 02 11:53		
asc. node	11744 Mar 24 22:25	22°\bar{\gamma}12'00	0.67040.411	evening set	11745 Mar 08 16:51	6° ℃ 17'37	
min. Earth dist.	11744 Mar 29 06:44	17° Y 19'34	0.67949 AU	asc. node	11745 Mar 11 19:46	3°Υ10'13	0.66016.441
inferior conj	11744 Mar 30 11:05	15° Ƴ 46'37	1°40'29	min. Earth dist.	11745 Mar 12 21:07	1° Y 55'12	0.66916 AU
minimum elong		0 0					
	11744 Mar 30 09:05	15° Υ 53'12	1°39'41		11745 Mar 14 10:33	30° ₹ ₩	
morning rise	11744 Apr 04 22:19	9° Ƴ 51'02	1°39'41	inferior conj	11745 Mar 14 10:33 11745 Mar 14 13:32	30° ₹ ₩ 29° Ж 50'48	0°52'08
direct	11744 Apr 04 22:19 11744 Apr 08 13:08	9° Υ 51'02 8° Υ 35'49		minimum elong	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15	30°R 米 29° 米 50'48 29° 米 54'43	0°52'08 0°51'43
direct morning max el	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36	9° Υ 51'02 8° Υ 35'49 12° Υ 32'16	1°39'41 19°26'37	minimum elong morning rise	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15	
direct morning max el desc. node	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37	19°26'37	minimum elong morning rise direct	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14	30°R	0°51'43
direct morning max el	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37 29°Y09'01		minimum elong morning rise	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15 23°¥08'41 26°¥41'06	
direct morning max el desc. node greatest brilliancy	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37 29°Y09'01 0°8	19°26'37	minimum elong morning rise direct morning max el	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15 23°¥08'41 26°¥41'06 0°Υ	0°51'43
direct morning max el desc. node	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37 29°Y09'01 0°8 17°843'02	19°26'37	minimum elong morning rise direct morning max el desc. node	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15 23°¥08'41 26°¥41'06 0°° 17°°39'59	0°51'43
direct morning max el desc. node greatest brilliancy morning set	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31 11744 May 18 13:43	9°Υ51'02 8°Υ35'49 12°Υ32'16 27°Υ39'37 29°Υ09'01 0°႘ 17°႘43'02 0°Ⅱ	19°26'37 -0.7m	minimum elong morning rise direct morning max el	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57 11745 Apr 20 06:54	30°R X 29° X 50'48 29° X 54'43 24° X 05'15 23° X 08'41 26° X 41'06 0° Y 17° Y 39'59 27° Y 07'31	0°51'43
direct morning max el desc. node greatest brilliancy	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31	9°Υ51'02 8°Υ35'49 12°Υ32'16 27°Υ39'37 29°Υ09'01 0°႘ 17°႘43'02 0°Π	19°26'37	minimum elong morning rise direct morning max el desc. node	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15 23°¥08'41 26°¥41'06 0°° 17°°39'59	0°51'43
direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31 11744 May 18 13:43 11744 May 23 01:37	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37 29°Y09'01 0°8 17°843'02 0°II 7°II03'10	19°26'37 -0.7m 1.44987 AU	minimum elong morning rise direct morning max el desc. node morning set	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57 11745 Apr 20 06:54 11745 Apr 22 02:52	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15 23°¥08'41 26°¥41'06 0°Y 17°Y39'59 27°Y07'31 0°8	0°51'43 18°36'55
direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31 11744 May 18 13:43 11744 May 23 01:37	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37 29°Y09'01 0°8 17°843'02 0°II 7°II03'10	19°26'37 -0.7m 1.44987 AU -2°13'18	minimum elong morning rise direct morning max el desc. node morning set	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57 11745 Apr 20 06:54 11745 Apr 22 02:52	30°R¥ 29°¥50'48 29°¥54'43 24°¥05'15 23°¥08'41 26°¥41'06 0°Y 17°Y39'59 27°Y07'31 0°8	0°51'43 18°36'55 -2°04'28
direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31 11744 May 18 13:43 11744 May 23 01:37 11744 May 27 00:51 11744 May 27 01:25	9°Υ51'02 8°Υ35'49 12°Υ32'16 27°Υ39'37 29°Υ09'01 0°႘ 17°႘43'02 0°Π 7°Π03'10 13°Π20'47 13°Π23'03	19°26'37 -0.7m 1.44987 AU -2°13'18	minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57 11745 Apr 20 06:54 11745 Apr 22 02:52 11745 May 06 10:17 11745 May 06 03:27	30°R X 29° X 50'48 29° X 54'43 24° X 05'15 23° X 08'41 26° X 41'06 0° Y 17° Y 39'59 27° Y 07'31 0° X 22° X 23'23 21° X 56'39	0°51'43 18°36'55 -2°04'28 2°04'41
direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31 11744 May 18 13:43 11744 May 27 01:37 11744 May 27 00:51 11744 May 27 01:25 11744 Jun 06 07:06	9°Y51'02 8°Y35'49 12°Y32'16 27°Y39'37 29°Y09'01 0°℧ 17°℧43'02 0°Ⅲ 7°Ⅲ03'10 13°Ⅲ20'47 13°Ⅲ23'03 0°©	19°26'37 -0.7m 1.44987 AU -2°13'18	minimum elong morning rise direct morning max el desc. node morning set	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57 11745 Apr 20 06:54 11745 Apr 22 02:52 11745 May 06 10:17 11745 May 06 03:27 11745 May 05 20:13	30°R ★ 29° ₭ 50'48 29° ₭ 54'43 24° ₭ 05'15 23° ₭ 08'41 26° ₭ 41'06 0° ♀ 17° ♀ 39'59 27° ♀ 07'31 0° ₴ 22° ₴ 23'23 21° ₴ 56'39 21° ₴ 28'19	0°51'43 18°36'55 -2°04'28
direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	11744 Apr 04 22:19 11744 Apr 08 13:08 11744 Apr 15 16:36 11744 Apr 27 09:16 11744 Apr 28 09:36 11744 Apr 28 23:23 11744 May 10 15:31 11744 May 18 13:43 11744 May 23 01:37 11744 May 27 00:51 11744 May 27 01:25	9°Υ51'02 8°Υ35'49 12°Υ32'16 27°Υ39'37 29°Υ09'01 0°႘ 17°႘43'02 0°Π 7°Π03'10 13°Π20'47 13°Π23'03	19°26'37 -0.7m 1.44987 AU -2°13'18	minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong	11745 Mar 14 10:33 11745 Mar 14 13:32 11745 Mar 14 12:15 11745 Mar 20 08:26 11745 Mar 23 12:14 11745 Mar 30 02:28 11745 Apr 02 02:01 11745 Apr 14 05:57 11745 Apr 20 06:54 11745 Apr 22 02:52 11745 May 06 10:17 11745 May 06 03:27	30°R X 29° X 50'48 29° X 54'43 24° X 05'15 23° X 08'41 26° X 41'06 0° Y 17° Y 39'59 27° Y 07'31 0° X 22° X 23'23 21° X 56'39	0°51'43 18°36'55 -2°04'28 2°04'41

greatest brilliancy	11745 May 29 21:16	29° Ⅱ 29'08	-0.9m	evening rise	11746 May 01 21:54	26° 8 36'24	
8	11745 May 30 05:07	0°छ			11746 May 04 02:40	0°II	
asc. node	11745 Jun 07 17:29	12° 5 43'14		greatest brilliancy	11746 May 14 21:03	16° Ⅱ 24'26	-0.7m
evening max el	11745 Jun 12 08:15	18° © 14'19	18°43'04		11746 May 24 20:24	0 \circ \odot	
retrograde	11745 Jun 18 22:29	21° 9 50'27		asc. node	11746 May 25 14:36	0° © 50'59	
evening set	11745 Jun 22 05:19	20° 5 48'44		evening max el	11746 May 26 15:53	1° 9 57'21	19°28'28
inferior conj	11745 Jun 27 19:57	15° 5 09'44	3°03'53	retrograde	11746 Jun 02 19:59	6° © 00'05	
minimum elong	11745 Jun 27 21:27	15° © 05'06	3°02'55	evening set	11746 Jun 06 11:35	4° 5 642'23	
min. Earth dist.	11745 Jun 29 17:22	12° © 49'35	0.65698 AU		11746 Jun 10 23:05	30°RⅡ	
morning rise	11745 Jul 03 12:46	8° 5 48'09		inferior conj	11746 Jun 11 20:48		3°14'53
direct	11745 Jul 09 22:58	6° © 05'46		minimum elong	11746 Jun 11 21:11	28° ∏ 47'41	3°14'05
desc. node	11745 Jul 11 05:57	6° ॐ 11'38		min. Earth dist.	11746 Jun 13 03:25	27° ∏ 07'58	0.67143 AU
morning max el	11745 Jul 23 04:17	13° © 55'23	26°49'54	morning rise	11746 Jun 17 06:22	22° ∏ 26'58	
	11745 Aug 05 05:10	$0^{\circ}\Omega$		direct	11746 Jun 23 06:54	19° ∏ 48'14	
	11745 Aug 23 20:21	0° m)		desc. node	11746 Jun 28 03:07	21° Ⅱ 11'05	
morning set	11745 Aug 27 22:47	7° Mp 37'48	1 2 4 2 2 2 4 7 7	morning max el	11746 Jul 05 14:57	27° Ⅱ 11'32	25°36'59
max. Earth dist.	11745 Sep 01 03:10	15° Mp 48'58	1.34033 AU		11746 Jul 08 05:59	0° ©	
asc. node	11745 Sep 03 17:54	21° Mp 07'37			11746 Jul 29 20:37	0°N	
	11745 C 05 14.55	250m 01106	0010100	morning set	11746 Aug 10 15:35	20°Ω05'51 26°Ω55'51	1 25007 ATT
superior conj	11745 Sep 05 14:55	25° Mp 01'06	0°18'08	max. Earth dist.	11746 Aug 14 07:58		1.35907 AU
minimum elong	11745 Sep 05 13:58	24°M 56'12 0°Ω	0°17'48		11746 Aug 15 22:33	0° m	
evening rise	11745 Sep 07 23:42 11745 Sep 12 23:07	0 <u>≈</u> 10° ≏ 32'44		superior conj	11746 Aug 20 07:03	8° m 34'01	001227
evening rise	11745 Sep 12 23.07 11745 Sep 23 00:41	0°M		minimum elong	11746 Aug 20 07:50	8° Mp 37'57	
evening max el	11745 Oct 02 20:42		21°26'19	behind sun begin	11746 Aug 20 04:00	8°M) 18'46	0 1246
desc. node	11745 Oct 02 20:42	16°M44'45	21 201)	behind sun end	11746 Aug 20 04:00 11746 Aug 20 11:39	8° Mp 57'10	
retrograde	11745 Oct 07 03:04 11745 Oct 15 00:05	19°M17'14		asc. node	11746 Aug 21 14:36	11° My 13'07	
evening set	11745 Oct 17 17:03	19°M00'24		evening rise	11746 Aug 28 05:57	24° Mp 49'42	
inferior conj	11745 Oct 26 17:10	15°M05'14	-5°13'47	evening rise	11746 Aug 30 19:13	0° <u>م</u>	
minimum elong	11745 Oct 26 08:32	15°M17'20		evening max el	11746 Sep 15 00:25	24° ₽ 03'50	20°04'45
min. Earth dist.	11745 Oct 26 21:12	14°M59'35	0.54573 AU	desc. node	11746 Sep 24 00:27	29° ₽ 12'11	20 0.10
morning rise	11745 Nov 04 00:54	11°M16'12		retrograde	11746 Sep 25 13:39	29° £ 18'45	
direct	11745 Nov 07 20:20	10° M ₊44'52		evening set	11746 Sep 27 12:35	29° ≏ 08'43	
morning max el	11745 Nov 20 10:48	16°M45'52	22°23'25	inferior conj	11746 Oct 06 12:07	25° ≏ 09'38	-3°45'03
asc. node	11745 Nov 30 18:48	0° ∡ ′00′38		minimum elong	11746 Oct 06 02:43	25° ≏ 23'43	3°41'43
	11745 Nov 30 18:39	0° ∡ ⊓		min. Earth dist.	11746 Oct 08 05:53	24° ₽ 07'00	0.54950 AU
morning set	11745 Dec 12 06:12	21° ∡ ¹47'55		morning rise	11746 Oct 14 15:44	20° ≏ 59'50	
	11745 Dec 16 02:23	ರ°ರ		direct	11746 Oct 19 06:59	20° ≏ 13'10	
				morning max el	11746 Nov 01 22:19	26° ≏ 54'48	24°11'23
superior conj	11745 Dec 19 07:10	6° る 50'12	1°34'37		11746 Nov 04 22:13	0° M	
minimum elong	11745 Dec 19 08:31	6° る 57'23	1°35'20	asc. node	11746 Nov 17 15:44	18°M33'42	
max. Earth dist.	11745 Dec 22 22:59	14° る 29'07	1.34084 AU		11746 Nov 23 14:40	0° ∡ ¹	
evening rise	11745 Dec 27 10:09	23° る 24'55		morning set	11746 Nov 26 18:04	6° ∡ ³34'43	
	11745 Dec 30 21:29	0° ≈					
desc. node	11746 Jan 03 01:21	5° ≈ 42'49		superior conj	11746 Dec 03 14:16	21° ∡ °28′39	1°38'57
	11746 Jan 18 12:17	0° ∀		minimum elong	11746 Dec 03 14:28	21° ∡ ¹29'44	1°39'43
evening max el	11746 Jan 31 06:51	15°) 11'43	27°03'15	max. Earth dist.	11746 Dec 05 21:44	26° ∡ ¹28'53	1.32697 AU
retrograde	11746 Feb 13 15:15	22°) (35'34			11746 Dec 07 13:23	0°る	
evening set	11746 Feb 20 06:13	20°) €02'27	0.65500.444	evening rise	11746 Dec 11 01:35	7°る15'44	
min. Earth dist.	11746 Feb 24 05:06		0.65503 AU	desc. node	11746 Dec 20 22:18	25°₹46'44	
inferior conj	11746 Feb 26 09:31	13°) (45′10		. 1	11746 Dec 23 10:07	0°≈	27020120
minimum elong	11746 Feb 26 09:41	13°) (44'42	0°05'51	evening max el	11747 Jan 13 19:07	28°≈28'58 0°¥	27-29-39
transit middle	11746 Feb 26 09:41 11746 Feb 26 06:54	13°) 44'42 13°) 52'37	0°05'51	ratra ara da	11747 Jan 15 10:55 11747 Jan 27 12:11	5°) (52'45	
transit begin transit end	11746 Feb 26 06.34 11746 Feb 26 12:28	13° ∺ 36'47		retrograde evening set	11747 Jan 27 12.11 11747 Feb 03 09:52	3° ∺ 23'58	
asc. node	11746 Feb 26 17:07	13° X 3047		min. Earth dist.	11747 Feb 03 09:32 11747 Feb 07 04:42	0° ∺ 06'01	0.63745 AU
morning rise	11746 Mar 04 14:34	8°) 11'54		iiiii. Eartii dist.	11747 Feb 07 04:42	0 7(0001 30°R≈	0.03743 AU
direct	11746 Mar 07 08:42	7° ¥ 30′59		inferior conj	11747 Feb 07 07:07 11747 Feb 09 20:22	30 k≈ 27°≈22'59	-1°14'09
morning max el	11746 Mar 13 17:37	10° ¥ 51'39	18°03'54	minimum elong	11747 Feb 09 20:22 11747 Feb 09 22:44	27°≈16'54	
morning man or	11746 Mar 27 05:26	0° Υ	10 05 0 1	asc. node	11747 Feb 13 14:27	23°≈51'57	
morning set	11746 Apr 01 02:14	7° Υ ′55'24		morning rise	11747 Feb 16 13:46	22°≈04'36	
desc. node	11746 Apr 01 02:37	7° Υ ′56'58		direct	11747 Feb 18 23:52	21°≈35'41	
	11746 Apr 14 20:00	0° 8		morning max el	11747 Feb 25 11:15	24°≈55'50	17°48'03
	r	_		<i>3</i>	11747 Mar 01 16:30	0° ∀	
superior conj	11746 Apr 15 19:10	1° 8 31'18	-1°36'38	morning set	11747 Mar 14 00:58	20°) €02'36	
minimum elong	11746 Apr 15 09:50	0° 8 54'34		desc. node	11747 Mar 18 23:16	28°) €25'24	
max. Earth dist.	11746 Apr 18 16:22	6° 8 03'04	1.45610 AU		11747 Mar 19 21:44	$0^{\circ}\Upsilon$	
	-						

	11747) (26 20 25	1100000112	0057103		11740 14 06 00 00	2201/20122	001.512.5
superior conj	11747 Mar 26 20:25	11° Υ 29'13		minimum elong	11748 Mar 06 20:23	22°\(\frac{1}{2}29'23	0°15'35
minimum elong	11747 Mar 26 14:23	11° Υ 04'39		behind sun begin	11748 Mar 06 18:25	22°) (21'01	
max. Earth dist.	11747 Apr 01 11:08	20° Y 30′04	1.44814 AU	behind sun end	11748 Mar 06 22:20	22°) (37'46	
	11747 Apr 07 12:29	0°8		P. d. P.	11748 Mar 11 07:34	0°Υ°	1 12202 177
evening rise	11747 Apr 11 09:25	5° 8 58'21		max. Earth dist.	11748 Mar 14 02:27	4° Υ 34'24	1.43383 AU
	11747 Apr 27 11:43	0°II		evening rise	11748 Mar 21 01:58	15° Y 41'12	
evening max el	11747 May 09 17:57	15° Ⅱ 42'17	20°28'52		11748 Mar 30 11:34	0° 8	
asc. node	11747 May 12 11:47	18° Ⅱ 09'26		evening max el	11748 Apr 21 14:29	29° 8 27'59	21°41'02
retrograde	11747 May 17 18:52	20° Ⅱ 21'34			11748 Apr 22 03:24	Π $\circ 0$	
evening set	11747 May 21 19:59	18° ∏ 47'49		asc. node	11748 Apr 28 09:01	4° Ⅲ 23'20	
inferior conj	11747 May 27 02:41	12° ∏ 41'39		retrograde	11748 Apr 30 17:05	4° ∏ 49'22	
minimum elong	11747 May 27 02:01	12° Ⅱ 43'56	3°12'13	evening set	11748 May 05 04:39	2° Ⅱ 59'54	
min. Earth dist.	11747 May 27 19:16	11° ∏ 44'42	0.68134 AU		11748 May 08 00:47	30° ₹ 8	
morning rise	11747 Jun 01 07:46	6° Ⅲ 22'31		inferior conj	11748 May 10 11:16	26° 8 43'03	2°59'55
direct	11747 Jun 06 20:25	3° ∏ 55'35		minimum elong	11748 May 10 09:46	26° 8 48'17	2°59'06
desc. node	11747 Jun 15 00:11	7° Ⅱ 48'30		min. Earth dist.	11748 May 10 14:38	26° 8 31'18	0.68667 AU
morning max el	11747 Jun 18 00:52	10° Ⅱ 37'44	24°10'44	morning rise	11748 May 15 14:40	20° 8 28'52	
	11747 Jul 03 10:23	0ಂತಾ		direct	11748 May 20 14:20	18° 8 19'31	
	11747 Jul 22 13:52	0 $^{\circ}$ Ω		morning max el	11748 May 30 11:38	24° 8 10'19	22°40'53
morning set	11747 Jul 23 13:25	1° Ω 41'09		desc. node	11748 May 31 21:08	25° 8 37'39	
max. Earth dist.	11747 Jul 27 05:55	8° Ω 09'45	1.38115 AU		11748 Jun 04 16:02	Π °0	
					11748 Jun 25 20:10	0 \circ	
superior conj	11747 Aug 03 11:17	21° Ω 31'32		morning set	11748 Jul 03 11:13	12° © 10'05	
minimum elong	11747 Aug 03 14:25	21° Ω 46'34	0°46'04	max. Earth dist.	11748 Jul 08 03:39	19° © 59'32	1.40431 AU
	11747 Aug 07 20:04	0° ™			11748 Jul 13 21:40	$0^{\circ}\Omega$	
asc. node	11747 Aug 08 11:22	1°Mp15'18					
evening rise	11747 Aug 12 06:54	8° Mp 48'02		superior conj	11748 Jul 15 23:22	3° Ω 43′03	-1°19'49
	11747 Aug 24 03:02	0₀ ⊽		minimum elong	11748 Jul 16 04:58	4° Ω 08'26	1°19'43
evening max el	11747 Aug 28 18:03	5° ≏ 40'51	19°04'11	asc. node	11748 Jul 25 08:08	21° Ω 09'38	
retrograde	11747 Sep 06 15:54	10° ≏ 07'41		evening rise	11748 Jul 25 22:39	22° Ω 18′26	
evening set	11747 Sep 08 12:26	9° £ 56'54			11748 Jul 30 01:07	0° ™	
desc. node	11747 Sep 10 21:51	9° ≙ 13'35		evening max el	11748 Aug 10 22:26	18° m) 00'48	18°24'59
inferior conj	11747 Sep 16 22:27	5° Ω 43'09		retrograde	11748 Aug 18 12:58	21° m 50'30	
minimum elong	11747 Sep 16 17:33	5° £ 51'34	1°51'23	evening set	11748 Aug 20 15:00	21° m 34'02	
min. Earth dist.	11747 Sep 19 18:52	3° Ω 46'14	0.56219 AU	desc. node	11748 Aug 27 19:15	17° Mp 21'41	0000104
morning rise	11747 Sep 24 19:37	0° £ 58'09		inferior conj	11748 Aug 28 06:08	16° M 59'56	
r.	11747 Sep 28 02:06	30°R Mp		minimum elong	11748 Aug 28 05:48	17° Mp 00'35	0°08'31
direct	11747 Sep 30 06:23	29° Mp 48'42 0° <u>₽</u>		transit middle	11748 Aug 28 05:48	17° Mp 00'35	0°08'31
	11747 Oct 02 10:47		25952129	transit begin	11748 Aug 28 02:48	17° Mp 06'38	
morning max el	11747 Oct 14 10:19	7° Ω 03'28	25°52'28	transit end	11748 Aug 28 08:49	16° M 54'32	0.50122 ATT
1-	11747 Oct 31 07:45	0°M		min. Earth dist.	11748 Aug 31 13:42	14° Mp 21'18	0.58133 AU
asc. node	11747 Nov 04 12:36	7°M39'10		morning rise	11748 Sep 04 17:06	11° Mp 38'25 10° Mp 01'03	
morning set	11747 Nov 11 05:18 11747 Nov 15 05:17	21°M16′10 0°⊀		direct	11748 Sep 10 20:08	10° my 39'32	27900120
	11/4/ NOV 15 05.1/	0 X -		morning max el	11748 Sep 25 04:08 11748 Oct 05 10:43	0° ⊽	27 09 39
superior conj	11747 Nov 18 00:40	6° ∡ 13'37	1037108	asc. node	11748 Oct 03 10.43	0 = 27° £ 08'12	
minimum elong	11747 Nov 18 00.40 11747 Nov 17 23:48	6° х 1337 6° х 08'48	1°37'46	asc. Houe	11748 Oct 21 09:23 11748 Oct 22 19:28	27 = 08 12 0° M	
max. Earth dist.	11747 Nov 17 23.48 11747 Nov 19 02:54	8° ∡ 38'45	1.31788 AU	morning set	11748 Oct 22 19:28 11748 Oct 25 14:12	5°M47'36	
evening rise	11747 Nov 19 02:34 11747 Nov 25 01:25	21° × ⁷ 27'18	1.51700 110	morning set	11, 10 000 23 17.12	5 HV-7/30	
evening noe	11747 Nov 29 06:49	0°ਰ		superior conj	11748 Nov 01 12:22	20°M59'04	1°29'30
desc. node	11747 Dec 07 19:19	ා ජී26'36		minimum elong	11748 Nov 01 10:39	20°M49'33	1°29'54
dese. Hode	11747 Dec 07 13:19	0°≈		max. Earth dist.	11748 Nov 01 11:33	20°M54'31	1.31371 AU
evening max el	11747 Dec 17 11:09	11°≈12'21	27°25'38	max. Earth dist.	11748 Nov 05 13:53	0° ⊼	1.515/1710
retrograde	11748 Jan 10 01:36	18°≈29'59	27 23 30	evening rise	11748 Nov 08 07:07	5° ⋌ ¹52'57	
evening set	11748 Jan 17 00:50	16°≈14'13		evening rise	11748 Nov 20 21:16	0°る	
min. Earth dist.	11748 Jan 20 18:27	13° ≈ 21'11	0.61728 AU	desc. node	11748 Nov 23 16:25	4° る 33'01	
inferior conj	11748 Jan 23 18:57	10°≈36'24		evening max el	11748 Dec 08 07:23	23° る 10'30	26°47'27
minimum elong	11748 Jan 24 00:05	10°≈24'41	2°27'16	<i>3 2</i> -	11748 Dec 19 11:21	0° ≈	
morning rise	11748 Jan 31 02:04	5°≈35'43	-	retrograde	11748 Dec 22 05:59	0° ≈ 19'04	
asc. node	11748 Jan 31 11:45	5° ≈ 28'51		S	11748 Dec 24 23:43	30°₽₹	
direct	11748 Feb 02 06:26	5°≈15'02		evening set	11748 Dec 28 23:21	28° ♂ 25'17	
morning max el	11748 Feb 09 04:06	8° ≈ 44'36	17°50'02	min. Earth dist.	11749 Jan 01 21:36	25° ⋜ 47'24	0.59591 AU
	11748 Feb 23 02:38	0°) €		inferior conj	11749 Jan 05 01:45	23° ප 16'14	-3°48'33
morning set	11748 Feb 24 21:09	3°) 10′30		minimum elong	11749 Jan 05 09:26	23° る 00'57	3°45'18
desc. node	11748 Mar 04 19:53	19° ∺ 01'03		morning rise	11749 Jan 12 22:20	18° පි 36'08	
				direct	11749 Jan 15 00:31	18° る 19'59	
superior conj	11748 Mar 06 21:51	22° ∺ 35'41	-0°15'59	asc. node	11749 Jan 17 08:59	18° る 41'23	

	11750 Dec 29 04:04	0°₹		morning max el	11751 Dec 01 15:54	28°MJ03'48	21°25'09
morning set	11751 Jan 06 11:40	15° る 53'49		moning man vi	11751 Dec 03 13:41	0° ₹	21 20 07
	11751 Jan 13 09:57	0° ≈		asc. node	11751 Dec 09 00:16	6° х 59′20	
				morning set	11751 Dec 21 20:56	0° る 37'52	
superior conj	11751 Jan 14 05:39	1° ≈ 38'33	1°14'05		11751 Dec 21 13:40	8°0	
minimum elong	11751 Jan 14 08:26	1° ≈ 52′26	1°14'28			_	
max. Earth dist.	11751 Jan 20 03:25	13° ≈ 05'31	1.37074 AU	superior conj	11751 Dec 29 02:39	15° ろ 51'23	1°29'09
evening rise	11751 Jan 23 21:13	19°≈57'52		minimum elong	11751 Dec 29 04:38	16°る01'41	1°29'45
desc. node	11751 Jan 24 09:57 11751 Jan 29 16:00	20°≈54'51 0°) €		max. Earth dist.	11752 Jan 02 13:57	24°る58'09 0°≈	1.35070 AU
	11751 Jan 29 16:00 11751 Feb 18 21:14	0° Υ 0° Υ		evening rise	11752 Jan 05 03:32 11752 Jan 06 17:10	0°≈ 2°≈59'42	
evening max el	11751 Feb 28 10:04	10° Υ 56'20	25°35'01	desc. node	11752 Jan 11 06:46	11°≈22'09	
retrograde	11751 Mar 12 18:05	18° Υ '02'57	23 33 01	dese. Hode	11752 Jan 22 14:34	0° ∀	
evening set	11751 Mar 18 16:39	15° Ƴ 35'54		evening max el	11752 Feb 10 23:40	24°) 42'19	26°36'42
asc. node	11751 Mar 20 00:59	14° Y ′20'41		C	11752 Feb 17 15:04	0° Y	
min. Earth dist.	11751 Mar 23 00:18	10° Ƴ 53'43	0.67562 AU	retrograde	11752 Feb 24 01:12	2° Y ′03'28	
inferior conj	11751 Mar 24 09:53	9° Y 06′15	1°21'11		11752 Feb 29 19:28	30°₽)	
minimum elong	11751 Mar 24 08:07	9° Ƴ 11'56	1°20'30	evening set	11752 Mar 01 10:34	29°) 31′04	
morning rise	11751 Mar 30 00:06	3° Y 14'57		min. Earth dist.	11752 Mar 05 12:21	25° ¥ 23'04	0.66354 AU
direct	11751 Apr 02 10:00	2° Υ '08'10		asc. node	11752 Mar 05 22:22	24°) €53'36	
morning max el	11751 Apr 09 06:59	5° Υ '52'52	19°03'27	inferior conj	11752 Mar 07 09:56	23°) €07'10	
desc. node	11751 Apr 22 11:31	23° Y 27'12	0.7	minimum elong	11752 Mar 07 09:11	23°) €09'25	0°28'28
greatest brilliancy	11751 Apr 22 12:08	23° Y 29'29 0° と	-0.7m	morning rise direct	11752 Mar 13 08:52	17° ¥ 26'30 16° ¥ 37'10	
morning set	11751 Apr 26 18:43 11751 May 02 13:07	8° 8 53'45		morning max el	11752 Mar 16 08:15 11752 Mar 22 19:27	20° ¥ 03'31	18°20'45
morning set	11751 May 16 02:33	0°П		morning max ci	11752 Mar 30 14:13	20 γ (03 31	18 20 43
max. Earth dist.	11751 May 16 02:55	0° П 29'23	1.45365 AU	desc. node	11752 Apr 08 08:12	13° Υ 35'18	
man. Burur uibu	117011111111111111111111111111111111111	V A 27 23	1.10000110	morning set	11752 Apr 11 15:47	18° Y ′52'12	
superior conj	11751 May 19 00:07	4° Ⅲ 33'28	-2°12'05	C	11752 Apr 18 16:06	0°8	
minimum elong	11751 May 18 21:23	4° Ⅱ 22'42	2°12'42				
evening rise	11751 Jun 02 19:36	28° Ⅲ 20′24		superior conj	11752 Apr 27 07:09	13° 8 32'58	-1°54'40
	11751 Jun 03 20:00	0 \circ		minimum elong	11752 Apr 26 22:23	_	1°54'29
asc. node	11751 Jun 15 22:50	19° © 19'49		max. Earth dist.	11752 Apr 28 05:10	14° 8 59'00	1.45734 AU
evening max el	11751 Jun 22 12:38	27° © 42'35	18°24'31		11752 May 07 19:55	0°П	
	11751 Jun 25 08:01	0°N		evening rise	11752 May 13 05:26	8° Ⅱ 27'09	0.0
retrograde	11751 Jun 28 22:46 11751 Jul 02 00:38	1° Ω 09'27 0° Ω 16'50		greatest brilliancy	11752 May 23 12:07	24° Ⅱ 29'47 0° ©	-0.8m
evening set	11751 Jul 02 00.38	30°RS		asc. node	11752 May 27 03:37 11752 Jun 01 19:55	0 ৩ 7°©50'47	
inferior conj	11751 Jul 07 19:53	24°9546'50	2°50'41	evening max el	11752 Jun 04 23:02	11°S23'49	19°00'27
minimum elong	11751 Jul 07 21:57	24°9540'43	2°49'33	retrograde	11752 Jun 11 18:18	15°909'50	17 0027
min. Earth dist.	11751 Jul 10 01:55	22°908'04	0.64670 AU	evening set	11752 Jun 15 04:44	14° © 01'31	
morning rise	11751 Jul 13 18:04	18° © 27'17		inferior conj	11752 Jun 20 16:43	8° © 16'29	3°10'14
desc. node	11751 Jul 19 11:14	15° 5 49'42		minimum elong	11752 Jun 20 17:45	8° © 13'11	3°09'22
direct	11751 Jul 20 08:02	15° 5 47'06		min. Earth dist.	11752 Jun 22 07:54	6°9511'46	0.66368 AU
morning max el	11751 Aug 02 22:52	23° © 46'10	27°21'56	morning rise	11752 Jun 26 06:06	1° 9 54'08	
	11751 Aug 08 12:35	0 $^{\circ}$ Ω			11752 Jun 29 01:30	30°Ŗ Ⅱ	
	11751 Aug 28 18:48	0° m/y		direct	11752 Jul 02 12:40	29° Ⅱ 11'50	
morning set	11751 Sep 07 07:06	17° Th 28'39		desc. node	11752 Jul 05 08:26	29° Ⅱ 40'02 0° ©	
asc. node max. Earth dist.	11751 Sep 11 23:27	26° My 53'54	1 22156 AII	morning may al	11752 Jul 06 06:10 11752 Jul 15 09:42	6°\$52'32	26921100
max. Earm dist.	11751 Sep 11 20:46 11751 Sep 13 11:12	26° Mp 40'07 0° <u>₽</u>	1.33156 AU	morning max el	11752 Jul 13 09.42 11752 Aug 02 07:26	0 3 32 32	26 21 00
	11/31 Sep 13 11.12	0 ==		morning set	11752 Aug 02 07:20 11752 Aug 20 08:40	0° m 21'33	
superior conj	11751 Sep 15 12:30	4° ₽ 20'42	0°33'58	morning set	11752 Aug 20 04:03	0° m)	
minimum elong	11751 Sep 15 10:55	4° £ 12'14		max. Earth dist.	11752 Aug 24 06:50	7° m 52'10	1.34779 AU
evening rise	11751 Sep 22 14:43	19° ≏ 34'23		asc. node	11752 Aug 28 20:09	16° m 59'40	
C	11751 Sep 27 16:18	0° M			Č	•	
evening max el	11751 Oct 14 01:07	24°M39'52	22°20'59	superior conj	11752 Aug 29 09:55	18° m 10'16	0°05'34
desc. node	11751 Oct 15 08:12	25°M52'17		minimum elong	11752 Aug 29 09:38	18° m) 08'45	0°05'16
	11751 Oct 21 16:30	0° ∡ ¹		behind sun begin	11752 Aug 29 04:00	17° m 39'49	
retrograde	11751 Oct 26 22:14	1° × 704'02		behind sun end	11752 Aug 29 15:16	18° m 37'45	
evening set	11751 Oct 30 08:26	0° ∡ 738′10			11752 Sep 04 02:04	0∘ ⊽	
r parr	11751 Nov 01 09:38	30°RM	0.54990.433	evening rise	11752 Sep 05 23:42	3° ⊆ 58'29	
min. Earth dist.	11751 Nov 07 07:53		0.54779 AU	ovenin 1	11752 Sep 20 12:48	0°M	20040112
inferior conj	11751 Nov 08 02:20	26°M39'12 26°M45'57		evening max el desc. node	11752 Sep 24 21:15 11752 Oct 01 05:35	5°M05'04 9°M39'28	20°49'13
minimum elong morning rise	11751 Nov 07 21:33 11751 Nov 16 12:05	26°11645'57 22°11645'57	3 41 12	retrograde	11/52 Oct 01 05:35 11752 Oct 06 09:14	10°M47'28	
direct	11751 Nov 16 12:05 11751 Nov 19 20:00	22°M27'00		evening set	11752 Oct 06 09:14 11752 Oct 08 16:17	10°11L4/28	
411000	11,511107 17 20.00	NU/ UU		o toming sor	11,32 000 00 10.1/	TO HUJT JU	

	117546 00 10 42	270 m. 4012 0	1005141		11755 4 21 06 26	00 7. 21120	0020151
minimum elong	11754 Sep 08 10:42	27° m/49'38	1°05'41	inferior conj	11755 Aug 21 06:26	9° m) 21'28	0°29'51
min. Earth dist.	11754 Sep 11 16:16	25° m/28'00	0.56969 AU	minimum elong	11755 Aug 21 07:25	9° Mp 19'20	0°29'08
morning rise	11754 Sep 16 06:42	22° m/43'32		desc. node	11755 Aug 22 21:46	7° Mp 56'28	
direct	11754 Sep 22 00:44	21°M)22'56		min. Earth dist.	11755 Aug 24 14:30	6° Mp 30′47	0.59058 AU
morning max el	11754 Oct 06 07:26	28° Mp 48'28	26°29'16	morning rise	11755 Aug 28 12:06	3°Mp45'51	
	11754 Oct 07 12:14	0∘ ⊽		direct	11755 Sep 03 20:06	1° m 56'18	
	11754 Oct 27 22:32	0° M		morning max el	11755 Sep 18 04:42	9° ™ 43'23	27°32'09
asc. node	11754 Oct 29 14:53	3°M13′15			11755 Oct 03 19:15	0∘ ⊽	
morning set	11754 Nov 04 06:37	14° M 48'01		asc. node	11755 Oct 16 11:39	22° ≏ 50'14	
				morning set	11755 Oct 19 13:58	29° ≏ 13'54	
superior conj	11754 Nov 11 02:42	29°M49'59	1°34'35		11755 Oct 19 22:41	0° M	
minimum elong	11754 Nov 11 01:27	29°M42'58	1°35'08	max. Earth dist.	11755 Oct 26 02:24	13°M27'06	1.31343 AU
	11754 Nov 11 04:30	0° ∡ ¹					
max. Earth dist.	11754 Nov 11 17:28	1° ∡ 12'05	1.31549 AU	superior conj	11755 Oct 26 14:23	14°MJ33'51	1°24'34
evening rise	11754 Nov 18 00:24	14° ∡ 53′53		minimum elong	11755 Oct 26 12:25	14°M22'56	1°24'51
	11754 Nov 25 14:47	0°₹		evening rise	11755 Nov 02 07:53	29°M23'14	
desc. node	11754 Dec 01 21:41	10° る 58'14			11755 Nov 02 14:46	0° ∡ ¹	
	11754 Dec 15 16:20	0° ≈		desc. node	11755 Nov 18 18:49	29° х 46′30	
evening max el	11754 Dec 19 07:10	3° ≈ 43'50	27°13'33		11755 Nov 18 22:23	8°0	
retrograde	11755 Jan 02 05:07	10° ≈ 57'42		evening max el	11755 Dec 01 06:47	15° る 18'29	26°20'46
evening set	11755 Jan 09 03:08	8° ≈ 49'54		retrograde	11755 Dec 15 05:20	22° る 24'09	
min. Earth dist.	11755 Jan 12 21:38	6° ≈ 05'10	0.60827 AU	evening set	11755 Dec 21 17:15	20°る41'49	
inferior conj	11755 Jan 16 00:41	3° ≈ 24'05	-3°03'21	min. Earth dist.	11755 Dec 25 20:16	18° පි 06'12	0.58689 AU
minimum elong	11755 Jan 16 07:01	3°≈10'27	3°00'20	inferior conj	11755 Dec 28 23:36	15° る 45'26	-4°20'34
•	11755 Jan 20 10:12	30°Ŗ⋜		minimum elong	11755 Dec 29 07:52	15° る 29'56	4°17'26
morning rise	11755 Jan 23 13:44	28° る 32'06		morning rise	11756 Jan 06 01:16	11° る 15'10	
direct	11755 Jan 25 16:45	28° る 13'44		direct	11756 Jan 08 03:47	11° ろ 00'03	
asc. node	11755 Jan 25 14:15	28° ප 13'47		asc. node	11756 Jan 12 11:28	12° ろ 07'32	
	11755 Jan 30 17:03	0° ≈		morning max el	11756 Jan 16 06:40	14° ろ 59'14	18°26'28
morning max el	11755 Feb 01 21:05	1° ≈ 49'46	17°56'41	. 8	11756 Jan 26 14:59	0° ≈	
morning set	11755 Feb 17 11:27	26° ≈ 19'35	-, -, -, -, -, -, -, -, -, -, -, -, -, -	morning set	11756 Feb 01 03:52	10° ≈ 22'32	
	11755 Feb 19 11:36	0° ∀					
		• //		superior conj	11756 Feb 10 06:05	27° ≈ 36'13	0°35'03
superior conj	11755 Feb 27 20:23	14° ¥ 59'54	0°00'34	minimum elong	11756 Feb 10 08:25	27° ≈ 46'59	0°35'10
minimum elong	11755 Feb 27 20:27	15° ₩ 00'13	0°00'49	mannam viong	11756 Feb 11 13:28	0° ∀	0 30 10
behind sun begin	11755 Feb 27 12:21	14°) 24'47	0 00 17	desc. node	11756 Feb 14 18:43	5°) 46′53	
behind sun end	11755 Feb 28 04:34	15°) 35'34		max. Earth dist.	11756 Feb 17 17:37	10° ¥ 56'14	1.40551 AU
desc. node	11755 Feb 27 22:05	15° ¥ 07'23		evening rise	11756 Feb 22 02:12	18° ¥ 17'16	1.10001110
max. Earth dist.	11755 Mar 07 08:55	27°) 45'38	1.42615 AU	evening rise	11756 Feb 29 09:41	0°Υ	
max. Larm dist.	11755 Mar 08 17:40	0° Υ	1.42013710		11756 Mar 21 18:16	%8 0°8	
evening rise	11755 Mar 13 07:53	7° Υ' 22'56		evening max el	11756 Mar 27 13:30	6° 8 28'05	23°34'38
evening rise	11755 Mar 28 07:08	0°8		retrograde	11756 Apr 07 07:44	12° 8 48'43	23 3430
evening max el	11755 Apr 14 22:33	22° 8 39'43	22°14'05	asc. node	11756 Apr 09 08:51	12° 8 29'10	
asc. node	11755 Apr 23 11:32	28° 8 14'22	22 1403	evening set	11756 Apr 12 11:33	10° 8 38'49	
retrograde	11755 Apr 24 12:53	28° 8 19'42		inferior conj	11756 Apr 17 21:28	4° 8 11'11	2°24'01
evening set	11755 Apr 29 05:13	26° 8 23'36		minimum elong	11756 Apr 17 21:28	4° 8 18'32	2°23'04
inferior conj	11755 May 04 12:24	20° 8 02'40	2°51'19	min. Earth dist.	11756 Apr 17 17:19	5° 8 00'49	0.68628 AU
minimum elong	11755 May 04 12:24 11755 May 04 10:38	20° 8 08'50	2°50'26	mm. Earm dist.	11756 Apr 21 03:48	30°RY	0.08028 AU
min. Earth dist.	11755 May 04 10:16	20° 8 10'08	0.68753 AU	morning rise	11756 Apr 23 03:03	28° Υ 06'15	
morning rise	11755 May 04 10:10	13° 8 51'04	0.08733 AU	direct	11756 Apr 27 07:57	26° Υ 26'59	
direct	11755 May 14 09:50	13 8 51'04		direct	11756 Apr 27 07:57	0° 8	
	•	17° 8 19'08	22°03'48	morning may al	•	1° 8 06'42	20042106
morning max el desc. node	11755 May 23 18:11	20° 8 48'58	22 03 48	morning max el desc. node	11756 May 05 12:04	9° 8 48'34	20 43 00
desc. node	11755 May 26 23:29			desc. node	11756 May 12 20:19	9 О 48 34 0° П	
	11755 Jun 03 04:57	0° ©		. ,	11756 May 26 22:32	12° П 31'56	
	11755 Jun 23 10:42			morning set	11756 Jun 04 03:19		1 42262 ATT
morning set	11755 Jun 25 16:51	3°536'08	1 41270 ATT	max. Earth dist.	11756 Jun 12 11:31	25° Ⅱ 44'32 0° ⑤	1.43362 AU
max. Earth dist.	11755 Jul 01 05:24	12° © 39'12	1.41378 AU		11756 Jun 15 02:21	0.50	
gunariar car:	11755 Iul 00 00.10	2506257120	1022115	gunorier con:	11756 Jun 10 04:47	606217127	1050122
superior conj	11755 Jul 08 23:13	25°557'30		superior conj	11756 Jun 19 04:47	6°947'35	
minimum elong	11755 Jul 09 05:36	26°©25'43	1 33 11	minimum elong	11756 Jun 19 11:03		1°59'53
	11755 Jul 11 05:40	0°Ω		evening rise	11756 Jul 01 08:06	27°546'00	
evening rise	11755 Jul 19 12:36	15° Ω 12'30		000 m-J-	11756 Jul 02 14:26	0°Ω 6°Ω20!52	
asc. node	11755 Jul 20 10:26	16° Ω 53'46		asc. node	11756 Jul 06 07:17	6° Ω 29'53	10002145
avanis 1	11755 Jul 27 18:00	0°M)	10014127	evening max el	11756 Jul 18 02:05	23° Ω 50'14	18°03'45
evening max el	11755 Aug 04 13:24	10° Mp 45'32	18°14'27	retrograde	11756 Jul 24 15:35	27°Ω12'53	
retrograde	11755 Aug 11 18:17	14° TD 24'20		evening set	11756 Jul 27 04:41	26° Ω 42'03	1040100
evening set	11755 Aug 13 23:19	14° Mp 04'23		inferior conj	11756 Aug 02 18:55	21° Ω 39'28	1°42'28

minimum elong	11756 Aug 02 21:27	21° Ω 33'11	1°41'07	inferior conj	11757 Jul 16 23:01	4° Ω 31'18	2°31'35
min. Earth dist.	11756 Aug 05 21:13	18° Ω 37′00	0.61342 AU	minimum elong	11757 Jul 17 01:31	4° Ω 24'20	2°30'19
desc. node	11756 Aug 08 19:09	16° Ω 08′26		min. Earth dist.	11757 Jul 19 13:12	1° Ω 39'01	0.63537 AU
morning rise	11756 Aug 09 11:38	15° Ω 39'14			11757 Jul 21 03:58	30°Rூ	
direct	11756 Aug 16 03:15	13°Ω23'23		morning rise	11757 Jul 23 03:27	28°9516'35	
morning max el	11756 Aug 30 08:38	21° Ω 22'47	27057120	desc. node	11757 Jul 26 16:28	26° © 15'44	
morning max er	_		27 37 20				
	11756 Sep 06 20:47	0° m)		direct	11757 Jul 29 19:45	25° © 42'32	
	11756 Sep 25 20:58	0∘ ⊽			11757 Aug 08 14:08	0 \circ Ω	
asc. node	11756 Oct 02 08:21	12° ≏ 41'18		morning max el	11757 Aug 12 17:18	3° Ω 44'17	27°44'35
morning set	11756 Oct 02 16:20	13° ≏ 22'27			11757 Sep 01 09:40	0° m y	
max. Earth dist.	11756 Oct 08 09:24	25° ₽ 33'45	1.31641 AU	morning set	11757 Sep 16 11:27	27° m 07'42	
					11757 Sep 17 21:35	0∘ ত	
superior conj	11756 Oct 10 00:46	29° ₽ 10'18	1°09'04	asc. node	11757 Sep 19 05:02	2° ₽ 41′28	
minimum elong	11756 Oct 09 22:31	28° ♀ 57'52	1°09'02	max. Earth dist.	11757 Sep 21 10:46	7° ₽ 22'50	1.32460 AU
8	11756 Oct 10 09:45	0°M					
evening rise	11756 Oct 16 18:16	13°ML58'21		superior conj	11757 Sep 24 07:55	13° ഫ 33'31	0°48'15
evening rise	11756 Oct 24 16:19	0° ⊼		minimum elong	•	13° ≏ 22'36	0°48'00
					11757 Sep 24 05:54		0 48 00
desc. node	11756 Nov 04 16:03	17° √ 41'12		evening rise	11757 Oct 01 05:39	28° ♀ 33'45	
evening max el	11756 Nov 11 22:23		24°58'21		11757 Oct 01 21:49	0° M -	
	11756 Nov 16 19:59	0°ಕ			11757 Oct 18 22:00	0° ∡ ¹	
retrograde	11756 Nov 25 18:06	2° る 58'54		desc. node	11757 Oct 22 13:22	4° ∡ ¹21'22	
evening set	11756 Dec 01 08:40	1° る 48'24		evening max el	11757 Oct 24 08:54	6° х¹ 13′04	23°18'52
	11756 Dec 04 22:26	30°₽ ⋌ ¹		retrograde	11757 Nov 06 17:39	12° ∡ 52'19	
min. Earth dist.	11756 Dec 06 10:18	29° ₹ '05'01	0.56746 AU	evening set	11757 Nov 11 00:19	12° ∡ 12'34	
inferior conj	11756 Dec 09 02:28	27° ∡ 20′38	-5°23'25	min. Earth dist.	11757 Nov 17 18:35	9° ∡ ¹02'56	0.55290 AU
minimum elong	11756 Dec 09 09:21	27° х 09′25	5°21'30	inferior conj	11757 Nov 19 09:25	8° х 06′26	-5°50'50
morning rise	11756 Dec 17 12:15	23°×712'06	3 2130	minimum elong	11757 Nov 19 09:39	8°×706'06	5°50'07
direct		22° x 1200		_		4° ∡ 15′10	3 30 07
	11756 Dec 19 20:37			morning rise	11757 Nov 27 20:41		
asc. node	11756 Dec 29 08:36	27° ⋌ ³33'30		direct	11757 Nov 30 18:34	3° ⋌ '54'47	
morning max el	11756 Dec 29 06:23	27° ∡ ¹28'08	19°18'00	morning max el	11757 Dec 11 16:50	9° ∡ ¹06'05 −	20°32'31
	11756 Dec 31 14:44	0°ප		asc. node	11757 Dec 16 05:41	14° ∡ 15'31	
morning set	11757 Jan 15 05:16	24° る 49'10			11757 Dec 25 18:39	0°₹	
	11757 Jan 17 19:26	0° ≈		morning set	11757 Dec 30 12:23	9° る 29'15	
superior conj	11757 Jan 23 08:58	11° ≈ 00'15	1°02'03	superior conj	11758 Jan 07 00:27	24° ප් 58'25	1°21'22
superior conj minimum elong	11757 Jan 23 08:58 11757 Jan 23 11:55	11°≈00'15 11°≈14'34	1°02'03 1°02'17	superior conj minimum elong	11758 Jan 07 00:27 11758 Jan 07 02:57	24°ට 58'25 25°ට 11'09	1°21'22 1°21'50
minimum elong	11757 Jan 23 11:55	11°≈14'34 23°≈27'29	1°02'17	minimum elong	11758 Jan 07 02:57	25° ට 11'09 0°≈	
minimum elong max. Earth dist. desc. node	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25	11°≈14'34 23°≈27'29 26°≈25'10	1°02'17	minimum elong max. Earth dist.	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57	25° ප් 11'09 0°≈ 5°≈30'14	1°21'50
minimum elong max. Earth dist.	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56	11°≈14'34 23°≈27'29 26°≈25'10 0°¥07'45	1°02'17	minimum elong max. Earth dist. evening rise	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36	25° ට 11'09 0°≈ 5°≈30'14 12°≈46'05	1°21'50
minimum elong max. Earth dist. desc. node	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09	11°≈14'34 23°≈27'29 26°≈25'10 0°₩07'45 0°₩	1°02'17	minimum elong max. Earth dist.	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41	1°21'50
minimum elong max. Earth dist. desc. node evening rise	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06	11°≈14'34 23°≈27'29 26°≈25'10 0°¥07'45 0°¥ 0°Υ	1°02'17 1.38329 AU	minimum elong max. Earth dist. evening rise	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°⊁	1°21'50
minimum elong max. Earth dist. desc. node evening rise	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12	11°≈14'34 23°≈27'29 26°≈25'10 0°₩07'45 0°₩ 0°Ψ 20°Υ19'43	1°02'17	minimum elong max. Earth dist. evening rise desc. node	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58	25°₹11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°₩ 0°Υ	1°21'50 1.36188 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40	11°≈14'34 23°≈27'29 26°≈25'10 0°₩07'45 0°₩ 0°Ψ 20°Ψ19'43 27°Ψ12'12	1°02'17 1.38329 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Feb 20 16:45	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°भ 0°° 4°°\09'39	1°21'50
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40 11757 Mar 27 06:12	11°≈14'34 23°≈27'29 26°≈25'10 0° ₩07'45 0° ₩ 0° Ψ 20° Ψ'19'43 27° Ψ'12'12 25° Ψ'07'37	1°02'17 1.38329 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Feb 20 16:45 11758 Mar 05 08:40	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°भ 0°° 4°°09'39 11°°4'23'03	1°21'50 1.36188 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40 11757 Mar 27 06:12 11757 Mar 27 14:25	11°≈14'34 23°≈27'29 26°≈25'10 0° ₭07'45 0° ₩ 0° Ψ 20° Ψ19'43 27° Ψ12'12 25° Ψ07'37 24° Ψ50'40	1°02'17 1.38329 AU 24°53'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Feb 20 16:45 11758 Mar 05 08:40 11758 Mar 11 12:05	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°℃ 4°℃09'39 11°℃23'03 8°℃53'12	1°21'50 1.36188 AU
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minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40 11757 Mar 27 06:12 11757 Mar 27 14:25 11757 Apr 01 02:04 11757 Apr 02 04:37 11757 Apr 02 02:33 11757 Apr 07 14:55 11757 Apr 11 07:32 11757 Apr 18 13:33 11757 Apr 29 17:04 11757 Apr 30 03:37 11757 Apr 30 03:37 11757 May 01 06:07 11757 May 14 03:12 11757 May 19 21:38	11°≈14'34 23°≈27'29 26°≈25'10 0° ₭07'45 0° ₭ 0° Ŷ 20° Ŷ19'43 27° Ŷ12'12 25° Ŷ07'37 24° Ŷ50'40 19° Ŷ48'10 18° Ŷ20'30 18° Ŷ27'20 12° Ŷ23'39 11° Ŷ05'20 15° Ŷ06'16 29° Ŷ21'43 0° ♉ 1° ♂36'45 21° ♂36'45	1°02'17 1.38329 AU 24°53'24 0.68073 AU 1°47'00 1°46'08 19°35'24 -0.6m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Mar 05 08:40 11758 Mar 11 12:05 11758 Mar 14 03:35 11758 Mar 15 17:12 11758 Mar 17 07:51 11758 Mar 17 06:25 11758 Mar 19 08:08 11758 Mar 23 01:27 11758 Mar 26 06:50 11758 Apr 01 22:30 11758 Apr 02 16:30 11758 Apr 16 13:45 11758 Apr 16 13:45	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°¥ 0°Y 4°Y09'39 11°Y23'03 8°Y53'12 6°Y16'49 4°Y25'46 2°Y25'32 2°Y29'59 30°R¥ 26°¥38'30 25°¥39'22 29°¥14'22 0°Y 19°Y18'49 0°∀	1°21'50 1.36188 AU 26°03'19 0.67101 AU 1°00'07 0°59'38
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minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40 11757 Mar 27 06:12 11757 Apr 01 02:04 11757 Apr 02 04:37 11757 Apr 02 02:33 11757 Apr 02 02:33 11757 Apr 11 07:32 11757 Apr 18 13:33 11757 Apr 29 17:04 11757 Apr 29 17:04 11757 Apr 30 03:37 11757 May 01 06:07 11757 May 14 03:12 11757 May 19 21:38 11757 May 26 00:45 11757 May 30 10:26 11757 May 30 10:26 11757 May 30 12:06 11757 Jun 07 15:40 11757 Jun 13 07:27 11757 Jun 13 07:27	11°≈14'34 23°≈27'29 26°≈25'10 0° ₩ 07'45 0° ₩ 0° Ψ 20° Ψ 19'43 27° Ψ 12'12 25° Ψ 07'37 24° Ψ 50'40 19° Ψ 48'10 18° Ψ 27'20 12° Ψ 23'39 11° Ψ 05'20 15° Ψ 06'16 29° Ψ 21'43 0° ₩ 1° ℧ 36'45 21° ℧ 04'36 0° Ⅲ 9° Ⅲ 36'44 16° Ⅲ 37'23 16° Ⅲ 44'01 0° \$ 9° \$ 25'52	1°02'17 1.38329 AU 24°53'24 0.68073 AU 1°47'00 1°46'08 19°35'24 -0.6m 1.44829 AU -2°12'49	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Feb 20 16:45 11758 Mar 05 08:40 11758 Mar 11 12:05 11758 Mar 14 03:35 11758 Mar 17 07:51 11758 Mar 17 06:25 11758 Mar 19 08:08 11758 Mar 23 01:27 11758 Mar 26 06:50 11758 Apr 01 22:30 11758 Apr 01 22:30 11758 Apr 02 16:30 11758 Apr 02 16:30 11758 Apr 23 10:27 11758 Apr 23 15:09 11758 May 09 21:31 11758 May 09 15:38 11758 May 09 15:38 11758 May 12 15:02 11758 May 25 06:55	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0° ¥ 0° Y 4° Y09'39 11° Y23'03 8° Y53'12 6° Y16'49 4° Y25'46 2° Y25'32 2° Y29'59 30° R ¥ 26° ¥38'30 25° ¥39'22 29° ¥14'22 0° Y 19° Y18'49 0° 8 0° 818'23 23° 858'56 25° 843'07 25° 820'05 0° II	1°21'50 1.36188 AU 26°03'19 0.67101 AU 1°00'07 0°59'38 18°43'16 1.45618 AU -2°07'07
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minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise asc. node	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40 11757 Mar 27 06:12 11757 Apr 01 02:04 11757 Apr 02 04:37 11757 Apr 02 02:33 11757 Apr 02 02:33 11757 Apr 11 07:32 11757 Apr 18 13:33 11757 Apr 18 13:33 11757 Apr 29 17:04 11757 Apr 30 03:37 11757 May 01 06:07 11757 May 14 03:12 11757 May 19 21:38 11757 May 26 00:45 11757 May 30 10:26 11757 May 30 10:26 11757 Jun 07 15:40 11757 Jun 13 07:27 11757 Jun 13 07:27 11757 Jun 23 04:14 11757 Jun 25 22:22 11757 Jul 01 16:11	11°≈14'34 23°≈27'29 26°≈25'10 0° ₭07'45 0° ₭ 0° Ŷ 20° Ŷ19'43 27° Ŷ12'12 25° Ŷ07'37 24° Ŷ50'40 18° Ŷ20'30 18° Ŷ27'20 12° Ŷ23'39 11° Ŷ05'20 15° Ŷ06'16 29° Ŷ21'43 0° ႘ 1° ႘36'45 21° ႘04'36 0° Ⅱ 9° Ⅲ36'44 16° Ⅲ37'23 16° Ⅲ44'01 0° ⑤ 9° ⑤25'52 25° ⑤46'37 0° 凡 7° 凡15'07	1°02'17 1.38329 AU 24°53'24 0.68073 AU 1°47'00 1°46'08 19°35'24 -0.6m 1.44829 AU -2°12'49 2°13'33	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise greatest brilliancy	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Mar 05 08:40 11758 Mar 11 12:05 11758 Mar 14 03:35 11758 Mar 17 07:51 11758 Mar 17 06:25 11758 Mar 19 08:08 11758 Mar 23 01:27 11758 Mar 26 06:50 11758 Apr 01 22:30 11758 Apr 02 16:30 11758 Apr 02 16:30 11758 Apr 03 10:27 11758 Apr 23 10:27 11758 Apr 23 10:27 11758 Apr 23 15:09 11758 May 09 15:38 11758 May 09 15:38 11758 May 09 15:38 11758 May 12 15:02 11758 May 25 06:55 11758 May 31 11:23 11758 May 31 11:23 11758 May 31 11:23	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°¥ 0°Y 4°Y09'39 11°Y23'03 8°Y53'12 6°Y16'49 4°Y25'46 2°Y25'32 2°Y29'59 30°R¥ 26°¥38'30 25°¥39'22 29°¥14'22 0°Y 19°Y18'49 0°∀ 19°Y18'49 0°∀ 18'23 23°∀58'56 25°∀43'07 25°∀20'05 0°∏ 20°∏05'21 0°© 1°©06'47	1°21'50 1.36188 AU 26°03'19 0.67101 AU 1°00'07 0°59'38 18°43'16 1.45618 AU -2°07'07
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise asc. node	11757 Jan 23 11:55 11757 Jan 29 23:55 11757 Jan 31 15:25 11757 Feb 02 17:56 11757 Feb 02 16:09 11757 Feb 21 17:06 11757 Mar 10 03:12 11757 Mar 21 22:40 11757 Mar 27 06:12 11757 Apr 01 02:04 11757 Apr 02 04:37 11757 Apr 02 02:33 11757 Apr 02 02:33 11757 Apr 11 07:32 11757 Apr 18 13:33 11757 Apr 19 17:04 11757 Apr 29 17:04 11757 Apr 30 03:37 11757 May 01 06:07 11757 May 14 03:12 11757 May 19 21:38 11757 May 26 00:45 11757 May 30 10:26 11757 May 30 10:26 11757 May 30 10:26 11757 May 30 10:26 11757 May 30 12:06 11757 Jun 07 15:40 11757 Jun 13 07:27 11757 Jun 23 04:14 11757 Jun 25 22:22	11°≈14'34 23°≈27'29 26°≈25'10 0° ₭07'45 0° ₭ 0° Ŷ 20° Ŷ19'43 27° Ŷ12'12 25° Ŷ07'37 24° Ŷ50'40 18° Ŷ20'30 18° Ŷ27'20 12° Ŷ23'39 11° Ŷ05'20 15° Ŷ06'16 29° Ŷ21'43 0° ₭ 1° ♂36'45 21° ♂04'36 0° Ⅱ 9° Ⅲ36'44 16° Ⅲ37'23 16° Ⅲ44'01 0° ♀ 9° ♀25'52 25° ♀46'37 0° €	1°02'17 1.38329 AU 24°53'24 0.68073 AU 1°47'00 1°46'08 19°35'24 -0.6m 1.44829 AU -2°12'49 2°13'33	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	11758 Jan 07 02:57 11758 Jan 09 12:27 11758 Jan 12 07:57 11758 Jan 16 04:36 11758 Jan 18 12:11 11758 Jan 26 04:19 11758 Feb 16 17:58 11758 Feb 20 16:45 11758 Mar 05 08:40 11758 Mar 11 12:05 11758 Mar 14 03:35 11758 Mar 17 07:51 11758 Mar 17 06:25 11758 Mar 19 08:08 11758 Mar 23 01:27 11758 Mar 26 06:50 11758 Apr 01 22:30 11758 Apr 01 22:30 11758 Apr 02 16:30 11758 Apr 02 16:30 11758 Apr 23 10:27 11758 Apr 23 15:09 11758 May 09 21:31 11758 May 09 15:38 11758 May 09 15:38 11758 May 25 06:55 11758 May 31 11:23	25°♂11'09 0°≈ 5°≈30'14 12°≈46'05 16°≈57'41 0°¥ 0°Y 4°Y09'39 11°Y23'03 8°Y53'12 6°Y16'49 4°Y25'46 2°Y25'32 2°Y29'59 30°₹¥ 26°¥38'30 25°¥39'22 29°¥14'22 0°Y 19°Y18'49 0°∀18'23 23°∀58'56 25°∀43'07 25°∀20'05 0°Ⅲ 20°Ⅲ05'21 0°©	1°21'50 1.36188 AU 26°03'19 0.67101 AU 1°00'07 0°59'38 18°43'16 1.45618 AU -2°07'07 2°07'28

ratragrada	11758 Jun 21 17:30	24° © 25'23		asc. node	11759 May 27 22:24	2° © 51'05	
retrograde evening set	11758 Jun 24 23:02	24 \$23 23 23°\$26'02		evening max el	11759 May 27 22.24 11759 May 29 12:57	4°934'26	19°20'44
inferior conj	11758 Jun 30 14:44	17° © 49'13	3°00'53	retrograde	11759 Jun 05 14:36	8°932'41	19 20 44
minimum elong	11758 Jun 30 16:24	17 949 13 17°944'09	2°59'53	evening set	11759 Jun 09 04:48	7°9517'28	
min. Earth dist.	11758 Jul 02 14:22	17 944 09 15°923'58	0.65441 AU	inferior conj	11759 Jun 14 14:38	1°526'08	3°14'04
morning rise	11758 Jul 06 08:52	13 32 3 38	0.03441 AU	minimum elong	11759 Jun 14 15:11	1°520'08	3°13'16
direct	11758 Jul 12 20:07	8°945'57		minimum elong	11759 Jun 15 16:55	1 3 024 19	3 13 10
				min Earth dist		30 KII 29°II38'45	0.66051 AII
desc. node	11758 Jul 13 13:43	8°947'50	26950105	min. Earth dist.	11759 Jun 15 23:28	29°Щ38°45 25°Щ03'51	0.66951 AU
morning max el	11758 Jul 26 04:11	16°538'27	26°59'05	morning rise	11759 Jun 20 01:05		
	11758 Aug 06 06:00	0° N		direct	11759 Jun 26 03:13	22° I I23'54	
	11758 Aug 25 06:06	0° m)		desc. node	11759 Jun 30 10:52	23° Ⅱ 29'56	25040156
morning set	11758 Aug 30 20:28	10° m 22'50	1 22702 477	morning max el	11759 Jul 08 14:58	29° Ⅱ 52'35	25°48'56
max. Earth dist.	11758 Sep 04 03:16	18° m 49'29	1.33792 AU		11759 Jul 08 17:54	0°©	
asc. node	11758 Sep 06 01:44	22° TQ 46'40		_	11759 Jul 31 03:16	0 ° Ω	
				morning set	11759 Aug 13 15:40	22° Ω 57'51	
superior conj	11758 Sep 08 09:39	27° m/37'40	0°22'28		11759 Aug 17 09:56	0° m)	
minimum elong	11758 Sep 08 08:31	27° Tp 31'43	0°22'07	max. Earth dist.	11759 Aug 17 09:20	29° Ω 57'11	1.35600 AU
	11758 Sep 09 12:38	0∘ ⊽					
evening rise	11758 Sep 15 16:09	13° ≏ 04'16		superior conj	11759 Aug 23 03:13	11° m)15'11	-0°07'42
	11758 Sep 24 06:01	0° M ₊		minimum elong	11759 Aug 23 03:42	11° m) 17'35	0°07'57
evening max el	11758 Oct 05 22:46	16° ™ 22'07	21°39'58	behind sun begin	11759 Aug 22 22:18	10° m 50'21	
desc. node	11758 Oct 09 10:45	19° ™ 20'46		behind sun end	11759 Aug 23 09:06	11° m 44'52	
retrograde	11758 Oct 18 07:11	22°M30'38		asc. node	11759 Aug 23 22:26	12° m 52'27	
evening set	11758 Oct 21 04:15	22°M11'50		evening rise	11759 Aug 30 23:35	27° m 23'18	
inferior conj	11758 Oct 30 03:06	18° ™ 15'59	-5°23'06		11759 Sep 01 06:13	0∘ ত	
minimum elong	11758 Oct 29 19:16	18° M 26'57	5°21'15	evening max el	11759 Sep 18 00:25	27° ≏ 04'22	20°15'37
min. Earth dist.	11758 Oct 30 01:10	18° ™ 18'41	0.54597 AU		11759 Sep 21 12:26	0° M	
morning rise	11758 Nov 07 11:23	14°M28'08		desc. node	11759 Sep 26 08:09	2°M10'02	
direct	11758 Nov 11 03:44	13°M58'42		retrograde	11759 Sep 28 19:45	2°M26'36	
morning max el	11758 Nov 23 13:44	19°M53'23	22°07'54	evening set	11759 Sep 30 20:11	2°M16'11	
_	11758 Dec 01 20:06	0° ∡ 7			11759 Oct 06 21:43	30° Ŗ Ω	
asc. node	11758 Dec 03 02:40	1° ∡ 757'26		inferior conj	11759 Oct 09 20:48	28° ₽ 18'39	-4°00'48
morning set	11758 Dec 14 22:51	24° ∡ 15'55		minimum elong	11759 Oct 09 11:02	33'03 م	3°57'28
•	11758 Dec 17 15:38	აი		min. Earth dist.	11759 Oct 11 09:31	27° ≏ 24'22	0.54836 AU
				morning rise	11759 Oct 18 01:03	24° ≗ 12'57	
superior conj	11758 Dec 22 00:53	9° ට 20'33	1°33'24	direct	11759 Oct 22 13:24	23° ≏ 28'54	
minimum elong	11758 Dec 22 02:25	9° る 28'36	1°34'04		11759 Nov 04 23:38	0° M	
max. Earth dist.	11758 Dec 25 21:45	17° る 22'47	1.34326 AU	morning max el	11759 Nov 05 01:54	0°M05'17	23°55'15
evening rise	11758 Dec 30 06:40	26°る03'23	1.5 .520 110	asc. node	11759 Nov 19 23:34	20°M24'35	25 00 10
evening noe	11759 Jan 01 08:25	0°≈		use. Houe	11759 Nov 25 01:49	0° ₹	
desc. node	11759 Jan 05 09:02	7° ≈ 20'12		morning set	11759 Nov 29 10:38	9° × 702'56	
dese. node	11759 Jan 19 14:09	0°) €		morning sec	11735 1107 25 10.50) N 0230	
evening max el	11759 Feb 03 06:16	17° ¥ 50′30	26°57'03	superior conj	11759 Dec 06 07:18	23° ₹ '57'26	1°38'42
retrograde	11759 Feb 16 13:04	25°) 14'07	20 37 03	minimum elong	11759 Dec 06 07:40	23°×759'28	1°39'27
evening set	11759 Feb 23 02:42	22°) (40'50		max. Earth dist.	11759 Dec 08 19:16	29°×720'35	1.32872 AU
min. Earth dist.	11759 Feb 27 02:14	18°) 47'18	0.65735 AU	max. Lartii dist.	11759 Dec 09 02:40	0°る	1.52072 710
inferior conj	11759 Mar 01 04:58	16°) €21'36	0°03'16	evening rise	11759 Dec 13 20:36	9° る 50'36	
minimum elong	11759 Mar 01 04:51	16° X 21'53	0°03'29	desc. node	11759 Dec 23 05:59	27° る 27'11	
transit middle	11759 Mar 01 04:51	16° X 21'53	0°03'29	desc. Hode	11759 Dec 24 17:36	27 3 27 11 0° ≈	
transit begin	11759 Mar 01 01:57	16° ¥ 30'15	0 03 2)		11760 Jan 15 13:28	0° ∀	
transit end	11759 Mar 01 07:45	16° X 13'32		evening max el	11760 Jan 16 18:51	1° ¥ 12'08	27027136
asc. node	11759 Mar 01 00:57	16° X 33'10		retrograde	11760 Jan 30 11:08	8° ¥ 36'41	21 21 30
morning rise	11759 Mar 07 08:22	10 X 33 10 10° X 46'28		evening set	11760 Jan 30 11:08 11760 Feb 06 07:59	6° ₩ 06'50	
-		10° X 40°28		•		2°) 44′28	0.64020 ATT
direct	11759 Mar 10 03:48		10007142	min. Earth dist.	11760 Feb 10 03:18		0.64020 AU
morning max el	11759 Mar 16 13:04	13° ¥ 25'16 0° Ƴ	18°07'42	inferior conj	11760 Feb 12 17:22	0°) €02'48	
	11759 Mar 28 12:11			minimum elong	11760 Feb 12 19:22	29°≈57'37	1 01 59
desc. node	11759 Apr 03 10:23	9° Υ 33'24		1	11760 Feb 12 18:27	30°R≈ 26°2255144	
morning set	11759 Apr 04 06:04	10° Y 53'12		asc. node	11760 Feb 15 22:16	26°≈55'44	
	11759 Apr 16 04:23	0°B		morning rise	11760 Feb 19 08:48	24°≈41'59	
	11770 1 10 07 17	406 3 4-11	1041140	direct	11760 Feb 21 19:56	24°≈11'34	170 4011 5
superior conj	11759 Apr 19 05:17	4° 8 47'10		morning max el	11760 Feb 28 06:31	27°≈31'19	17°49'16
minimum elong	11759 Apr 18 19:53	4° 8 10'15			11760 Mar 01 12:20	0°) {	
max. Earth dist.	11759 Apr 21 14:48	8° 8 32'37	1.45663 AU	morning set	11760 Mar 16 01:07	22°) € 50'11	
evening rise	11759 May 05 07:46	29° 8 51'47		desc. node	11760 Mar 20 07:00	0° Y ′00′35	
	11759 May 05 09:54	0°Щ			11760 Mar 20 06:52	0 ° Υ	
greatest brilliancy	11759 May 17 15:25	18° ∏ 46′29	-0.7m				
	11759 May 25 13:57	0		superior conj	11760 Mar 29 03:24	14° Ƴ 36'19	-1°03'40

	117(0 M 20 20.40	1.40 0 00000	1000154		11761 Mar. 24, 10.52	1000050121	
minimum elong	11760 Mar 28 20:40	14° Y ′09'06	1°02'54	evening rise	11761 Mar 24 10:52	18° Y 52'31	
max. Earth dist.	11760 Apr 03 09:48	23° Y '01'37	1.44976 AU		11761 Mar 31 17:47	0° 8	
	11760 Apr 07 20:24	0°8			11761 Apr 22 14:06	0°Щ	
evening rise	11760 Apr 13 19:55	9° 8 14'20		evening max el	11761 Apr 24 13:15	2° Ⅱ 05'27	21°29'38
	11760 Apr 27 15:34	Π \circ 0		asc. node	11761 Apr 30 16:49	6° Ⅱ 43'04	
evening max el	11760 May 11 15:53	18° Ⅱ 19'30	20°19'03	retrograde	11761 May 03 11:41	7° Ⅲ 20′03	
asc. node	11760 May 13 19:35	20° Ⅱ 18′08		evening set	11761 May 07 21:42	5° Ⅱ 32'50	
retrograde	11760 May 19 13:22	22° Ⅲ 52'43		-	11761 May 12 15:58	30° ₹ 8	
evening set	11760 May 23 12:59	21° Ⅲ 21'25		inferior conj	11761 May 13 04:11	29° 8 17'30	3°02'34
inferior conj	11760 May 28 19:54	15° Ⅱ 17'09	3°13'59	minimum elong	11761 May 13 02:48	29° 8 22'22	3°01'44
minimum elong	11760 May 28 19:23	15° Ⅱ 18'55	3°13'14	min. Earth dist.	11761 May 13 09:29	28° 8 59'05	0.68625 AU
min. Earth dist.		13 Ⅱ 1833	0.68020 AU		•	_	0.08023 AU
	11760 May 29 14:34		0.08020 AU	morning rise	11761 May 18 07:41	23° 8 02'35	
morning rise	11760 Jun 03 01:29	8° Ⅱ 57'27		direct	11761 May 23 09:21	20° 8 50'21	
direct	11760 Jun 08 16:03	6° Ⅲ 28′12		morning max el	11761 Jun 02 11:12	26° 8 48'37	22°54'03
desc. node	11760 Jun 16 07:54	9° ∏ 54'14		desc. node	11761 Jun 03 04:52	27° 8 33'57	
morning max el	11760 Jun 20 00:49	13° Ⅱ 17'14	24°23'56		11761 Jun 05 10:10	Π $^{\circ}0$	
	11760 Jul 03 13:14	0 \circ \odot			11761 Jun 27 03:00	0 \circ \odot	
	11760 Jul 22 22:59	$0^{\circ}\Omega$		morning set	11761 Jul 06 18:08	15° © 20'35	
morning set	11760 Jul 25 16:33	4° Ω 41'23		max. Earth dist.	11761 Jul 11 05:03	22° © 50'10	1.40094 AU
max. Earth dist.	11760 Jul 29 07:36	11° Ω 06'44	1.37774 AU	man. Bartir dist.	11761 Jul 15 07:46	0°Ω	100
max. Lartii dist.	11/00 Jul 27 07.50	11 8600 44	1.57774 AO		11/01 Jul 13 07.40	0 86	
	11760 4 05 00-24	24° Ω 18'19	0940157		117(1 1-1 10 00.10	(° 027122	101450
superior conj	11760 Aug 05 09:24			superior conj	11761 Jul 19 00:10	6° Ω 37'22	
minimum elong	11760 Aug 05 12:10	24° Ω 31'36	0°40'56	minimum elong	11761 Jul 19 05:26	7° Ω 01'26	1°14'44
	11760 Aug 08 07:38	0° ™		asc. node	11761 Jul 27 15:57	22° Ω 51'22	
asc. node	11760 Aug 09 19:10	2° My 55'21		evening rise	11761 Jul 28 18:51	24° Ω 59'40	
evening rise	11760 Aug 14 01:31	11° m 24'30			11761 Jul 31 10:12	0° m)	
	11760 Aug 24 03:08	0∘ ⊽		evening max el	11761 Aug 13 19:07	20° m/48'22	18°29'31
evening max el	11760 Aug 30 16:07	8° ≏ 34'16	19°11'51	retrograde	11761 Aug 21 13:34	24° m/ 42'47	
retrograde	11760 Sep 08 19:20	13° ≏ 07'30		evening set	11761 Aug 23 14:37	24° m 27'23	
evening set	11760 Sep 10 15:38	12° ⊆ 57'08		desc. node	11761 Aug 30 02:55	20° m 53'36	
desc. node	11760 Sep 10 15:38 11760 Sep 12 05:32	12° ⊆ 37'08		inferior conj		19° m 56'16	0022102
	*		2010121		11761 Aug 31 08:35		
inferior conj	11760 Sep 19 04:12	8° ≏ 46'08		minimum elong	11761 Aug 31 07:41	19° m 58'01	0°22'54
minimum elong	11760 Sep 18 22:30	8° ≏ 55'41	2°08'05	min. Earth dist.	11761 Sep 03 15:20	17° m) 22'51	0.57815 AU
min. Earth dist.	11760 Sep 21 21:40	6° £ 56'46	0.55985 AU	morning rise	11761 Sep 07 21:16	14° m 40'01	
morning rise	11760 Sep 27 02:33	4° ≏ 06'58		direct	11761 Sep 13 22:10	13° m 07'06	
direct	11760 Oct 02 10:43	3° ഫ 01'10		morning max el	11761 Sep 28 05:55	20° m 42'13	27°00'20
morning max el	11760 Oct 16 13:11	10° ≏ 11'23	25°38'34		11761 Oct 06 07:01	0∘ ত	
Ü	11760 Oct 31 13:11	0° M ₊		asc. node	11761 Oct 23 17:10	28° ≏ 52'04	
asc. node	11760 Nov 05 20:23	9°M25'42		use. Houe	11761 Oct 24 06:49	0°M	
morning set	11760 Nov 12 22:02	23°M45'24		morning set	11761 Oct 24 00:43	8° M .19'11	
morning set				morning set	11/01 Oct 28 07.23	8 1161911	
	11760 Nov 15 18:57	0° ∡ 7			115(1)	220W 25155	1021101
				superior conj	11761 Nov 04 04:54	23°M27'57	1°31'01
superior conj	11760 Nov 19 17:18	8° ∡ 1'50	1°37'47	minimum elong	11761 Nov 04 03:19	23°M19'02	1°31'28
minimum elong	11760 Nov 19 16:35	8° ∡ 37'51	1°38'27	max. Earth dist.	11761 Nov 04 08:08	23°M45'58	1.31403 AU
max. Earth dist.	11760 Nov 20 23:38	11° ∡ ′29'19	1.31893 AU		11761 Nov 07 03:27	0° ∡ ¹	
evening rise	11760 Nov 26 19:20	23° ₹ 59'42		evening rise	11761 Nov 11 00:19	8° ≯ 24'09	
	11760 Nov 29 18:10	0° ろ			11761 Nov 22 03:40	0° ろ	
desc. node	11760 Dec 09 03:00	17° る 11'28		desc. node	11761 Nov 26 00:06	6° ප 24'10	
	11760 Dec 17 09:58	0° ≈		evening max el	11761 Dec 11 08:56	26° පි 07'46	26°55'17
evening max el	11760 Dec 29 04:38	14° ≈ 01'54	27°28'26	<i>5</i>	11761 Dec 16 02:47	0° ≈	
retrograde	11760 Dec 25 04:50	21°≈20′26	27 20 20	retrograde	11761 Dec 25 07:18	3°≈17'21	
•				•			
evening set	11761 Jan 19 01:01	19°≈02'22	0.62020.444	evening set	11762 Jan 01 02:13	1°≈19'43	
min. Earth dist.	11761 Jan 22 18:39	16° ≈ 06′01	0.62038 AU		11762 Jan 03 04:26	30°೩ರ	
inferior conj	11761 Jan 25 17:59	13° ≈ 20'44	-2°18'03	min. Earth dist.	11762 Jan 04 23:15	28° る 40'30	0.59915 AU
minimum elong	11761 Jan 25 22:41	13° ≈ 09'48	2°15'35	inferior conj	11762 Jan 08 03:22	26° る 06'20	-3°36'45
morning rise	11761 Feb 01 23:00	8° ≈ 17'04		minimum elong	11762 Jan 08 10:44	25° る 51'21	3°33'32
asc. node	11761 Feb 01 19:32	8° ≈ 19'56		morning rise	11762 Jan 15 22:03	21° る 22'59	
direct	11761 Feb 04 04:04	7° ≈ 55'21		direct	11762 Jan 18 00:21	21° පි 06'20	
morning max el	11761 Feb 10 23:40	11° ≈ 22'58	17°48'34	asc. node	11762 Jan 19 16:45	21° る 17'31	
	11761 Feb 23 11:29	0° ∀		morning max el	11762 Jan 25 13:04	24°පි51'06	18°06'45
morning set	11761 Feb 26 18:33	5° ¥ 50'45		morning max ci	11762 Jan 29 19:11	0°≈	10 00 73
morning set							
desc. node	11761 Mar 07 03:37	20°) ₹35'33		morning set	11762 Feb 10 04:07	19°≈36'04	
					11762 Feb 15 18:18	0°) €	
superior conj	11761 Mar 10 01:08	25°) 32′34					
minimum elong	11761 Mar 09 23:02	25° ∺ 23'39	0°21'39	superior conj	11762 Feb 19 22:52	7° ∺ 36′01	0°16'01
	11761 Mar 12 16:52	0 ° Υ		minimum elong	11762 Feb 20 00:08	7°) 41'40	0°16'11
max. Earth dist.	11761 Mar 17 01:54	7° Y 11'04	1.43636 AU	desc. node	11762 Feb 22 00:16	11°) (14′48	

max. Earth dist.	11762 Feb 27 13:56	20°) 48′26	1.41782 AU	max. Earth dist.	11763 Feb 09 21:34	3°) 43′05	1.39616 AU
evening rise	11762 Mar 04 17:28	29°) 15′50		evening rise	11763 Feb 13 20:57	10°) 34′10	
	11762 Mar 05 04:27	0° Y			11763 Feb 26 01:22	0° Y	
	11762 Mar 25 07:17	0° 8		evening max el	11763 Mar 20 20:12	29° Ƴ 42'47	24°08'39
evening max el	11762 Apr 07 06:05	15° 8 53'08	22°48'04		11763 Mar 21 03:11	9° 8	
retrograde	11762 Apr 17 08:08	21° 8 50'19		retrograde	11763 Apr 01 01:27	6° 8 18'10	
asc. node	11762 Apr 17 14:05	21° 8 50'02		asc. node	11763 Apr 04 11:25	5° 8 24'43	
evening set	11762 Apr 22 05:22	19° 8 48'04		evening set	11763 Apr 06 10:28	4° 8 02'41	
inferior conj	11762 Apr 27 13:31	13° 8 24'04	2°40'54		11763 Apr 10 02:14	30° ŖƳ	
minimum elong	11762 Apr 27 11:33	13° 8 30'55	2°39'59	min. Earth dist.	11763 Apr 11 02:19	28° Ƴ 40′06	0.68449 AU
min. Earth dist.	11762 Apr 27 06:05	13° 8 49'53	0.68766 AU	inferior conj	11763 Apr 11 22:01	27° Ƴ 33'24	2°09'29
morning rise	11762 May 02 17:37	7° 8 15'21		minimum elong	11763 Apr 11 19:51	27° Y 40'45	2°08'34
direct	11762 May 07 06:02	5° 8 23'44		morning rise	11763 Apr 17 05:20	21° Y 31'59	
morning max el	11762 May 16 01:33	10° 8 29'56	21°28'06	direct	11763 Apr 21 04:51	20° Y 01′56	
desc. node	11762 May 21 01:45	16° 8 09'00		morning max el	11763 Apr 28 22:43	24° Y 23'31	20°12'33
	11762 May 31 07:23	0°II			11763 May 03 20:44	0°8	
morning set	11762 Jun 16 17:48	24° Ⅱ 50′27		desc. node	11763 May 07 22:34	5° 8 24'19	
The state of	11762 Jun 19 23:22	0.22	1 10050 177		11763 May 24 14:42	0°II	
max. Earth dist.	11762 Jun 23 07:56	5° © 27'48	1.42279 AU	morning set	11763 May 26 21:25	3° Ⅱ 30′12	1 11050 177
	11762 1 20 10 00	100602100	1045124	max. Earth dist.	11763 Jun 05 17:34	18°Щ56'17	1.44059 AU
superior conj	11762 Jun 30 19:00	18°502'09			11762 1 11 14 10	200 112 (10.4	2007111
minimum elong	11762 Jul 01 01:45	18°931'21	1°45'38	superior conj	11763 Jun 11 14:19	28°II26'04	
	11762 Jul 07 13:49	0°Ω		minimum elong	11763 Jun 11 19:14	28° Ⅱ 46'17	2°07'44
evening rise	11762 Jul 11 23:42	7° Ω 59'08			11763 Jun 12 13:09	0°ତ 20°©11'54	
asc. node	11762 Jul 14 12:46	12° Ω 36′09		evening rise	11763 Jun 24 11:19		
	11762 Jul 25 02:55	0°M)	10007122	1-	11763 Jun 30 04:01	0° Ω	
evening max el	11762 Jul 28 05:22	3° Mp 36'59	18°07'33	asc. node	11763 Jul 01 09:41	2° Ω 05'11	18°04'51
retrograde	11762 Aug 04 02:17	7° Mp 07'11		evening max el	11763 Jul 11 19:01	16° Ω 51'14	18°04'51
evening set	11762 Aug 06 10:46	6° Mp 42'54	1°03'43	retrograde	11763 Jul 18 05:20	20° Ω 11'54 19° Ω 35'42	
inferior conj	11762 Aug 13 10:14	1° Mp 51'03 1° Mp 46'43	1°03'43 1°02'37	evening set	11763 Jul 20 21:49 11763 Jul 27 05:57	$19^{\circ} 0.3542$ $14^{\circ} \Omega 25'03$	2°05'57
minimum elong	11762 Aug 13 12:08 11762 Aug 15 10:34	1 11/4043 30°RΩ	1 02 37	inferior conj minimum elong	11763 Jul 27 03:37 11763 Jul 27 08:36	$14^{\circ}\Omega 18'06$	2°04'36
min. Earth dist.	11762 Aug 15 16:34 11762 Aug 16 16:45	28° Ω 52'49	0.60020 AU	min. Earth dist.	11763 Jul 27 08:30 11763 Jul 30 03:32	11° Ω 24'26	0.62294 AU
desc. node	11762 Aug 10 10:43	$28^{\circ} \Omega 36'34$	0.00020 AC	morning rise	11763 Aug 02 17:13	8° Ω 17'11	0.02294 AU
morning rise	11762 Aug 17 00:19	26°Ω03'45		desc. node	11763 Aug 02 17.13 11763 Aug 03 21:40	7° Ω 30'17	
direct	11762 Aug 26 10:26	20°Ω03'43 24°Ω02'43		direct	11763 Aug 09 09:41	5° Ω 52'33	
direct	11762 Sep 08 04:51	0° m)		morning max el	11763 Aug 23 12:46		27°56'27
morning max el	11762 Sep 10 06:13	1° m ₀ 55'29	27°47'52	morning max cr	11763 Sep 05 11:48	0° m)	27 3027
morning max ci	11762 Sep 30 16:07	0∘ ⊽	21 47 32		11763 Sep 33 11:48 11763 Sep 23 04:37	0∘ ⊽	
asc. node	11762 Oct 10 13:54	ა — 18° Ω 35'42		morning set	11763 Sep 26 12:29	° - 6° - 37'44	
morning set	11762 Oct 12 12:53	22° Ω 38'16		asc. node	11763 Sep 27 10:37	8° £ 31'19	
morning sec	11762 Oct 15 23:31	0°M		max. Earth dist.	11763 Oct 01 22:02	17° £ 59'54	1.31922 AU
max. Earth dist.	11762 Oct 18 16:56	5°M59'39	1.31407 AU	man. Darun alov.	11,03 000 01 22.02	.,, .	1.51722110
				superior conj	11763 Oct 04 01:28	22° ≏ 40'12	1°00'53
superior conj	11762 Oct 19 16:14	8°M09'02	1°18'40	minimum elong	11763 Oct 03 23:15	22° ≏ 28′01	1°00'44
minimum elong	11762 Oct 19 14:05	7° M 57'09	1°18'48	Č	11763 Oct 07 09:23	0° M	
evening rise	11762 Oct 26 09:15	22°M56'35		evening rise	11763 Oct 10 20:16	7°MJ32'02	
C	11762 Oct 29 17:50	0° ∡ ¹		C	11763 Oct 22 09:31	0° ∡ ¹	
desc. node	11762 Nov 12 21:18	24° х 51'58		desc. node	11763 Oct 30 18:34	12° ∡ 17'39	
	11762 Nov 16 15:30	ರ°ರ		evening max el	11763 Nov 04 17:29	17° ∡ ¹45'45	24°17'03
evening max el	11762 Nov 23 05:05	7° る 20'25	25°48'46	retrograde	11763 Nov 18 09:59	24° ∡ ³36'32	
retrograde	11762 Dec 07 02:32	14° る 21'42		evening set	11763 Nov 23 12:05	23° ∡ ³39'31	
evening set	11762 Dec 13 07:09	12° る 52'12		min. Earth dist.	11763 Nov 29 04:36	20° х 47′12	0.56047 AU
min. Earth dist.	11762 Dec 17 17:36	10° る 15'52	0.57830 AU	inferior conj	11763 Dec 01 11:57	19° ∡ ¹21'48	-5°40'46
inferior conj	11762 Dec 20 17:58	8° る 08'48	-4°50'03	minimum elong	11763 Dec 01 16:37	19° ∡ 14'34	5°39'32
minimum elong	11762 Dec 21 02:14	7° る 54'15	4°47'16	morning rise	11763 Dec 09 23:14	15° ∡ ¹22'01	
morning rise	11762 Dec 28 23:51	3° る 48'04		direct	11763 Dec 12 12:18	15° ₹ 05'02	
direct	11762 Dec 31 04:09	3° る 33'07		morning max el	11763 Dec 22 13:22	19° ∡ 52'38	19°46'57
asc. node	11763 Jan 06 13:55	5° る 51'56		asc. node	11763 Dec 24 11:02	21° ∡ 751′56	
morning max el	11763 Jan 08 18:55	7° る 44'30	18°45'37		11763 Dec 30 08:29	0°ಕ	
	11763 Jan 23 01:16	0° ≈		morning set	11764 Jan 09 04:55	18° る 23'22	
morning set	11763 Jan 25 00:47	3° ≈ 50′27			11764 Jan 14 22:16	0° ≈	
superior conj	11763 Feb 02 16:29	20° ≈ 34'28	0°47'26	superior conj	11764 Jan 17 01:13	4° ≈ 14'26	1°11'10
minimum elong	11763 Feb 02 19:15	20° ≈ 47'29	0°47'34	minimum elong	11764 Jan 17 04:05	4° ≈ 28'34	1°11'29
3	11763 Feb 07 19:22	0° ∀		max. Earth dist.	11764 Jan 23 03:38	15° ≈ 58'26	1.37392 AU
desc. node	11763 Feb 08 20:57	1° ¥ 54'16		evening rise	11764 Jan 26 21:05	22° ≈ 45'39	
				-			

	11561 7 06 15 11	222 22122		P. 4 F.	11765 1 04 12 25	25025	1.05046.477
desc. node	11764 Jan 26 17:41	22° ≈ 30'32		max. Earth dist.	11765 Jan 04 13:25		1.35346 AU
	11764 Jan 31 00:59	0° ∀			11765 Jan 05 15:14	0° ≈	
	11764 Feb 19 20:46	0° Υ		evening rise	11765 Jan 08 14:46	5°≈42'12	
evening max el	11764 Mar 02 09:32		25°24'37	desc. node	11765 Jan 12 14:29	12°≈59'41	
retrograde	11764 Mar 14 14:36	20° Y °37′09			11765 Jan 22 20:03	0° ∀	
evening set	11764 Mar 20 11:21	18° Y 11′25		evening max el	11765 Feb 12 23:12	27°) €21'27	26°28'40
asc. node	11764 Mar 21 08:48	17° Y ′22'53			11765 Feb 15 21:34	0° Υ	
min. Earth dist.	11764 Mar 24 19:59	13° Y 23′56	0.67705 AU	retrograde	11765 Feb 25 22:28	4° Υ 40'54	
inferior conj	11764 Mar 26 03:46	11° Ƴ 41'21	1°28'19	evening set	11765 Mar 04 06:18	2° Y 09'06	
minimum elong	11764 Mar 26 01:54	11° Y 47'24	1°27'35		11765 Mar 06 13:05	30° ₹	
morning rise	11764 Mar 31 16:53	5° Ƴ 48'31		asc. node	11765 Mar 08 06:08	28° ∺ 04'21	
direct	11764 Apr 04 04:27	4° Υ 38'52		min. Earth dist.	11765 Mar 08 08:58	27° ¥ 56′01	0.66561 AU
morning max el	11764 Apr 11 03:35	8° Y 27'30	19°11'11	inferior conj	11765 Mar 10 04:43	25°) 44′00	0°37'16
desc. node	11764 Apr 23 19:17	25° Y ′08′29		minimum elong	11765 Mar 10 03:46	25°) 46′53	0°37'02
greatest brilliancy	11764 Apr 24 02:25	25° Ƴ 35′07	-0.7m	morning rise	11765 Mar 16 02:10	20° ∺ 01′29	
	11764 Apr 27 00:41	9° 8		direct	11765 Mar 19 03:05	19° ₩ 09'40	
morning set	11764 May 04 23:39	12° 8 12'27		morning max el	11765 Mar 25 15:10	22°) 37′54	18°26'00
	11764 May 16 10:26	Π° 0			11765 Mar 31 15:44	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	11764 May 18 08:43	3° Ⅱ 01′29	1.45248 AU	desc. node	11765 Apr 10 15:57	15° Ƴ 14'06	
	•			morning set	11765 Apr 14 22:12	21° Y ′58'43	
superior conj	11764 May 21 10:47	7° Ⅱ 53'29	-2°12'57	Č	11765 Apr 19 23:57	0°B	
minimum elong	11764 May 21 09:15	7° Ⅱ 47'22	2°13'37		•		
Č	11764 Jun 04 03:48	0°©		superior conj	11765 Apr 30 18:18	16° 8 53'10	-1°58'32
evening rise	11764 Jun 05 00:47	1° 5 26'13		minimum elong	11765 Apr 30 10:04	_	1°58'30
asc. node	11764 Jun 17 06:42	21°9511'44		max. Earth dist.	11765 May 01 03:39		1.45734 AU
	11764 Jun 24 00:02	$0^{\circ}\Omega$			11765 May 09 03:36	0°II	
evening max el	11764 Jun 24 08:43	0° Ω 21'58	18°20'38	evening rise	11765 May 16 13:59	11° I I40'50	
retrograde	11764 Jun 30 18:10	3° Ω 46'52	10 20 30	greatest brilliancy	11765 May 26 01:53	26° I I35'42	-0.8m
evening set	11764 Jul 03 18:49	2° Ω 56'28		greatest orimaney	11765 May 28 07:05	0°95	0.0111
evening set	11764 Jul 07 09:15	30°RS		asc. node	11765 Jun 04 03:46	9° © 47'57	
inferior conj	11764 Jul 09 15:28	27°\$28'59	2°46'09	evening max el	11765 Jun 07 19:43	14°9502'10	18°54'01
minimum elong	11764 Jul 09 17:40	27°\$22'34	2°45'00	retrograde	11765 Jun 14 13:01	17°5944'22	18 3401
min. Earth dist.	11764 Jul 11 23:42	21°5046'08	0.64390 AU	evening set	11765 Jun 17 22:12	17 944 22 16°938'22	
		21°\$10'26	0.04390 AU	•	11765 Jun 23 11:02	10 \$38 22 10°\$55'27	3°08'13
morning rise	11764 Jul 15 15:12			inferior conj		10 953 27 10°951'39	3°07'18
desc. node	11764 Jul 20 18:57	18°938'45		minimum elong	11765 Jun 23 12:14		
direct	11764 Jul 22 05:58	18°931'23	27920141	min. Earth dist.	11765 Jun 25 04:24	8°945'10	0.66147 AU
morning max el	11764 Aug 04 22:42	26°931'42	27°28'41	morning rise	11765 Jun 29 01:35	4°933'20	
	11764 Aug 08 04:14	0° N		direct	11765 Jul 05 09:31	1°950'47	
	11764 Aug 29 02:39	0° m)		desc. node	11765 Jul 07 16:09	2°509'06	26021120
morning set	11764 Sep 09 03:39	20° m 10'55		morning max el	11765 Jul 18 09:30	9° © 34'46	26°31'29
asc. node	11764 Sep 13 07:20	28° m 34'01			11765 Aug 03 11:11	$0^{\circ}\Omega$	
	11764 Sep 13 23:54	0° ⊽			11765 Aug 21 14:32	0° m y	
max. Earth dist.	11764 Sep 13 19:41	29° m 38'04	1.32960 AU	morning set	11765 Aug 23 07:14	3° m 09'45	
				max. Earth dist.	11765 Aug 27 07:23	10° m 53'26	1.34510 AU
superior conj	11764 Sep 17 06:35	6° £ 55'45		asc. node	11765 Aug 31 04:02	18° m 39'50	
minimum elong	11764 Sep 17 04:52	6° ≏ 46'31	0°37'34				
evening rise	11764 Sep 24 07:29	22° ≏ 05'22		superior conj	11765 Sep 01 05:12	20° Mp 49'24	0°10'09
	11764 Sep 28 02:37	0° M		minimum elong	11765 Sep 01 04:39	20° Mp 46'36	0°09'50
evening max el	11764 Oct 16 04:12	27°M50'12	22°35'48	behind sun begin	11765 Aug 31 23:59	20° m 22'27	
desc. node	11764 Oct 16 15:54	28°M18′14		behind sun end	11765 Sep 01 09:20	21° m) 10'47	
	11764 Oct 18 14:31	0° ∡ ¹			11765 Sep 05 14:26	0∘ ⊽	
retrograde	11764 Oct 29 04:55	4° ∡ 18'44		evening rise	11765 Sep 08 16:55	6° ₽ 31'23	
evening set	11764 Nov 01 20:12	3° ⊀ ¹49'46			11765 Sep 21 09:09	0° M	
min. Earth dist.	11764 Nov 09 12:02	0° ∡ ′23′20	0.54880 AU	evening max el	11765 Sep 27 22:30	8°M10'25	21°01'47
inferior conj	11764 Nov 10 11:58	29°M49'24	-5°46'29	desc. node	11765 Oct 03 13:16	12° M 25'24	
minimum elong	11764 Nov 10 08:27	29°M54'23	5°45'37	retrograde	11765 Oct 09 15:59	13° M 59'46	
	11764 Nov 10 04:30	30°RM		evening set	11765 Oct 12 02:11	13°M45'53	
morning rise	11764 Nov 18 22:10	26°Mo1'32		inferior conj	11765 Oct 21 03:44	9° ጤ 51'19	-4°53'44
direct	11764 Nov 22 03:22	25° ™ 37′54		minimum elong	11765 Oct 20 18:05	10°ML04'57	4°51'01
	11764 Dec 02 11:17	0° ∡ ¹		min. Earth dist.	11765 Oct 21 19:01	9° ™ 29'42	0.54582 AU
morning max el	11764 Dec 03 17:51	1° ∡ 08'22	21°10'57	morning rise	11765 Oct 29 10:20	5° M 58′27	
asc. node	11764 Dec 10 08:04	9° ∡ °01′13		direct	11765 Nov 02 11:28	5°M23'17	
	11764 Dec 22 01:33	ರ°0		morning max el	11765 Nov 15 09:54	11°M36'25	22°53'00
morning set	11764 Dec 23 13:43	3° ප 06'52		asc. node	11765 Nov 27 05:02	27°M03'44	
					11765 Nov 28 22:16	0° ∡ ¹	
superior conj	11764 Dec 30 20:55	18° る 24'05	1°27'19	morning set	11765 Dec 08 00:56	17° ∡ °53'55	
minimum elong	11764 Dec 30 23:03	18° පි 35'06	1°27'53		11765 Dec 13 15:59	ರ∘ರ	

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superior conj	11765 Dec 15 00:10	2°る52'48		superior conj	11766 Nov 29 08:21	17° ∡ ³33′26	1°39'02
minimum elong	11765 Dec 15 01:13	2° る 58'24		minimum elong	11766 Nov 29 08:14	17° ∡ ³32'51	1°39'47
max. Earth dist.	11765 Dec 18 06:34	9° る 47'09	1.33651 AU	max. Earth dist.	11766 Dec 01 07:31	21° ∡ 50′39	1.32398 AU
evening rise	11765 Dec 22 22:16	19° る 13'04			11766 Dec 05 03:26	0°₹	
	11765 Dec 28 15:22	0° ≈		evening rise	11766 Dec 06 16:17	3° る 10'13	
desc. node	11765 Dec 30 11:22	3° ≈ 16′12		desc. node	11766 Dec 17 08:20	23° る 14'23	
	11766 Jan 16 22:40	0° ∀			11766 Dec 21 10:23	0° ≈	
evening max el	11766 Jan 26 12:42	10° ¥ 56′09	27°13'26	evening max el	11767 Jan 09 00:23	24° ≈ 05′22	27°31'52
retrograde	11766 Feb 09 00:06	18°) € 20′28			11767 Jan 17 01:16	0°) €	
evening set	11766 Feb 15 17:12	15°) 48′06		retrograde	11767 Jan 22 18:46	1° ¥ 27'14	
min. Earth dist.	11766 Feb 19 14:53	12° ₩ 08'04	0.65045 AU	-	11767 Jan 28 03:48	30° ₹ ≈	
inferior conj	11766 Feb 21 22:27	9° ₩ 34'35	-0°23'46	evening set	11767 Jan 29 17:35	29° ≈ 01'15	
minimum elong	11766 Feb 21 23:08	9° 升 32'40	0°23'08	min. Earth dist.	11767 Feb 02 11:46	25° ≈ 51'01	0.63208 AU
asc. node	11766 Feb 23 03:28	8° ¥ 15'25		inferior conj	11767 Feb 05 06:11	23° ≈ 06'16	-1°34'08
morning rise	11766 Feb 28 06:41	4°) €04'55		minimum elong	11767 Feb 05 09:16		1°32'21
direct	11766 Mar 02 22:27	3° ¥ 27'37		asc. node	11767 Feb 10 00:46	18° ≈ 57'42	1 0221
morning max el	11766 Mar 09 07:13	6° ¥ 47'08	17°57'44	morning rise	11767 Feb 12 03:16	17°≈52'25	
morning max or	11766 Mar 25 03:28	0° Υ	17 37 11	direct	11767 Feb 14 11:38	17°≈26'03	
morning set	11766 Mar 27 01:36	3°Υ10'25		morning max el	11767 Feb 21 00:54	20°≈47'34	17°46'48
desc. node	11766 Mar 28 12:34	5° Υ 34'34		morning max ci	11767 Feb 28 00:37	20 ∞ 47 34 0°) €	17 40 40
desc. Hode	11/00 Mai 20 12.34	3 1 34 34		morning set	11767 Mar 09 06:54	0 X 15° ¥ 36′24	
	11766 A 10 06.17	26° Ƴ 11'17	102/127	•		26°\(\)\(\)\(\)\(\)\(\)\(\)	
superior conj	11766 Apr 10 06:17			desc. node	11767 Mar 15 09:11	26° π 05°15 0° Υ	
minimum elong	11766 Apr 09 21:27	25° Y 36'16	1°25'54		11767 Mar 17 16:43	Osy	
E d E	11766 Apr 12 16:09	0°8	1 45 467 411		1177734 21 12 51	600007114	0045150
max. Earth dist.	11766 Apr 13 23:49		1.45467 AU	superior conj	11767 Mar 21 13:51	6° Y 27'14	
evening rise	11766 Apr 26 07:46	21° 8 12'45		minimum elong	11767 Mar 21 09:06	6° Y ′07'42	
	11766 May 02 01:30	0°II		max. Earth dist.	11767 Mar 27 18:16	16° Y ′28′27	1.44481 AU
greatest brilliancy	11766 May 10 09:40	12° ∐ 31'57			11767 Apr 05 09:32	0° 8	
evening max el	11766 May 22 01:56	27° Ⅱ 46'22	19°43'47	evening rise	11767 Apr 05 19:09	0° 8 36'57	
asc. node	11766 May 22 00:53	27° Ⅱ 43'44			11767 Apr 25 17:37	$0^{\circ}\Pi$	
	11766 May 24 14:16	0 \circ \odot		evening max el	11767 May 05 02:22	11° Ⅱ 31'25	20°47'45
retrograde	11766 May 29 11:01	1° © 57'56		asc. node	11767 May 08 22:04	14° Ⅱ 46'11	
evening set	11766 Jun 02 05:15	0° © 35'41		retrograde	11767 May 13 09:52	16° Ⅲ 21'47	
	11766 Jun 02 23:08	30°R Ⅱ		evening set	11767 May 17 13:52	14° Ⅱ 43'25	
inferior conj	11766 Jun 07 13:30	24° Ⅲ 38'42	3°15'30	inferior conj	11767 May 22 20:18	8° Ⅲ 33'58	3°10'28
minimum elong	11766 Jun 07 13:35	24° Ⅱ 38′24	3°14'43	minimum elong	11767 May 22 19:23	8° Ⅱ 37′08	3°09'40
min. Earth dist.	11766 Jun 08 16:10	23° Ⅱ 09'38	0.67471 AU	min. Earth dist.	11767 May 23 09:05	7° Ⅱ 49'48	0.68334 AU
morning rise	11766 Jun 12 21:35	18° Ⅱ 17′26		morning rise	11767 May 28 00:41	2° Ⅱ 16′10	
direct	11766 Jun 18 19:05	15° Ⅱ 41'15			11767 Jun 01 06:05	30° ₹ 8	
desc. node	11766 Jun 24 13:15	17° Ⅲ 38'13		direct	11767 Jun 02 09:46	29° 8 53'52	
morning max el	11766 Jun 30 19:46	22° Ⅲ 53'52	25°13'57		11767 Jun 03 14:14	Π° 0	
-	11766 Jul 07 02:01	0°ಅ		desc. node	11767 Jun 11 10:15	4° Ⅱ 37'25	
	11766 Jul 27 18:57	$0^{\circ}\Omega$		morning max el	11767 Jun 13 05:44	6° Ⅲ 22'02	23°45'48
morning set	11766 Aug 05 19:15	15° Ω 24'21		C	11767 Jul 01 13:40	0∘ ©	
max. Earth dist.	11766 Aug 09 09:50	22° Ω 00'01	1.36497 AU	morning set	11767 Jul 18 10:48	26° © 41'57	
	11766 Aug 13 14:41	0° m)		Ü	11767 Jul 20 08:58	$0^{\circ}\Omega$	
				max. Earth dist.	11767 Jul 22 07:21	3°Ω22'27	1.38762 AU
superior conj	11766 Aug 15 18:24	4° m 13'44	-0°21'32				
minimum elong	11766 Aug 15 19:47	4° m) 20'33		superior conj	11767 Jul 29 18:32	16° Ω 59'04	-0°55'26
asc. node	11766 Aug 18 00:44	8° mp 45'04		minimum elong	11767 Jul 29 22:23	17° Ω 17'12	
evening rise	11766 Aug 23 22:22	20° mp 44'12		asc. node	11767 Aug 04 21:28	28° Ω 45'21	
e vennig rise	11766 Aug 28 14:27	0∘ ⊽		450. 11040	11767 Aug 05 12:45	0° m)	
evening max el	11766 Sep 10 06:13	19° ♀ 12'33	19°45'46	evening rise	11767 Aug 07 21:06	4° m) 35'35	
retrograde	11766 Sep 20 07:52	24° ₽ 13'25	17 18 10	evening rise	11767 Aug 23 03:36	0∘ ⊽	
desc. node	11766 Sep 20 10:40	24° ⊆ 13'23		evening max el	11767 Aug 24 03:06	ი — 1° — 01'37	18°51'11
evening set	11766 Sep 22 05:07	24° ⊆ 03'39		retrograde	11767 Sep 01 15:21	5° ≏ 17'11	10 31 11
•	•		2015/10	•	•		
inferior conj minimum elong	11766 Oct 01 01:53 11766 Sep 30 17:26	20° £ 01'16 20° £ 14'20		evening set desc. node	11767 Sep 03 12:53 11767 Sep 07 08:05	5° £ 05'17 3° £ 37'49	
-	-				-		1922/50
min. Earth dist.	11766 Oct 03 04:24	18° Ω 43'09	0.55225 AU	inferior conj	11767 Sep 11 17:51	0° £ 45'53	
morning rise	11766 Oct 09 04:05	15° Ω 42'59		minimum elong	11767 Sep 11 14:21	0° ჲ 52'10	1-21.40
direct	11766 Oct 14 01:03	14° £ 50'44	24040152	t materia	11767 Sep 12 19:17	30°RM)	0.56605 : ***
morning max el	11766 Oct 27 20:39	21° £ 41'42	24°40'52	min. Earth dist.	11767 Sep 14 18:42	28° m 35'54	0.56695 AU
	11766 Nov 04 02:42	0°M,		morning rise	11767 Sep 19 12:31	25° m 50'22	
asc. node	11766 Nov 14 01:54	15°M46'44		direct	11767 Sep 25 04:03	24° m 33'47	
	11766 Nov 21 06:42	0° ∡ ¹			11767 Oct 07 06:42	0∘ ಹ	
morning set	11766 Nov 22 12:46	2° ∡ ³39'41		morning max el	11767 Oct 09 10:01	1° ≏ 55'50	26°16'58
					11767 Oct 29 07:07	0° M ₊	

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asc. node	11767 Oct 31 22:42	4° ጤ 59'17			11768 Oct 03 21:45	0∘ ⊽	
morning set	11767 Nov 06 23:30	17° ™ 18'50		asc. node	11768 Oct 17 19:29	24° ≏ 33'28	
	11767 Nov 12 18:17	0° ∡			11768 Oct 20 11:10	0° M	
				morning set	11768 Oct 21 07:27	1°M46'43	
superior conj	11767 Nov 13 19:16	2° ∡ 18'55	1°35'36				
minimum elong	11767 Nov 13 18:08	2° ∡ 12'39	1°36'12	superior conj	11768 Oct 28 07:00	17° ™ 03'30	1°26'27
max. Earth dist.	11767 Nov 14 14:01	4° ₰ 03'03	1.31622 AU	minimum elong	11768 Oct 28 05:08	16° ™ 53'03	1°26'46
evening rise	11767 Nov 20 17:56	17° ∡ ¹25'56		max. Earth dist.	11768 Oct 27 22:53	16° ™ 18'15	1.31341 AU
	11767 Nov 27 00:30	0°₹			11768 Nov 03 03:38	0° ∡ 7	
desc. node	11767 Dec 04 05:25	12° ප් 46'16		evening rise	11768 Nov 04 00:52	1° ≯ 754'07	
	11767 Dec 16 05:39	0° ≈			11768 Nov 19 00:36	8°0	
evening max el	11767 Dec 22 07:54	6° ≈ 36'24	27°18'31	desc. node	11768 Nov 20 02:34	1° る 41'18	
retrograde	11768 Jan 05 05:47	13° ≈ 51'53		evening max el	11768 Dec 03 08:51	18° る 19'24	26°30'47
evening set	11768 Jan 12 04:23	11° ≈ 41′03		retrograde	11768 Dec 17 07:36	25° る 26'12	
min. Earth dist.	11768 Jan 15 22:25	8° ≈ 53'40	0.61139 AU	evening set	11768 Dec 23 21:34	23° る 39'47	
inferior conj	11768 Jan 19 00:43	6° ≈ 10'54	-2°51'26	min. Earth dist.	11768 Dec 27 22:40	21° る 03'38	0.58999 AU
minimum elong	11768 Jan 19 06:38	5° ≈ 57'53	2°48'32	inferior conj	11768 Dec 31 02:28	18° る 38'54	-4°09'28
morning rise	11768 Jan 26 11:42	1° ≈ 15'55		minimum elong	11768 Dec 31 10:36	18° පි 23'21	4°06'14
asc. node	11768 Jan 27 22:01	0° ≈ 59'00		morning rise	11769 Jan 08 02:27	14° る 05'07	
direct	11768 Jan 28 15:06	0° ≈ 56'51		direct	11769 Jan 10 04:40	13° る 49'45	
morning max el	11768 Feb 04 16:57	4° ≈ 30′26	17°54'00	asc. node	11769 Jan 13 19:14	14° る 37'56	
morning set	11768 Feb 20 07:52	28° ≈ 57'34		morning max el	11769 Jan 18 03:41	17° る 45'06	18°20'42
	11768 Feb 20 21:36	0°) €			11769 Jan 26 22:03	0° ≈	
desc. node	11768 Mar 01 05:49	16°) 42′23		morning set	11769 Feb 02 22:42	12° ≈ 56′20	
superior conj	11768 Mar 01 22:09	17° ¥ 53'15	-0°05'17	superior conj	11769 Feb 12 04:55	0° 米 21'19	0°30'16
minimum elong	11768 Mar 01 21:43	17° ¥ 51′21	0°04'58	minimum elong	11769 Feb 12 07:02	0°) 30′58	0°30'23
behind sun begin	11768 Mar 01 13:47	17°) 16′59			11769 Feb 12 00:16	0°) €	
behind sun end	11768 Mar 02 05:39	18°) €25'38		desc. node	11769 Feb 16 02:29	7°) €21'51	
	11768 Mar 09 02:30	0° Y		max. Earth dist.	11769 Feb 19 17:57	13°) 41′51	1.40875 AU
max. Earth dist.	11768 Mar 09 08:29	0° Y 24'35	1.42888 AU	evening rise	11769 Feb 24 06:45	21°) (17′27	
evening rise	11768 Mar 15 15:32	10° Ƴ 31'18			11769 Mar 01 17:01	$0^{\circ}\mathbf{\Upsilon}$	
	11768 Mar 28 11:49	0° ႘			11769 Mar 22 15:15	0°8	
evening max el	11768 Apr 16 21:30	25° 8 17'37	22°02'21	evening max el	11769 Mar 30 12:57	9° 8 05'54	23°22'36
	11768 Apr 22 23:00	Π $^{\circ}0$		retrograde	11769 Apr 10 03:04	15° 8 20'36	
asc. node	11768 Apr 24 19:19	0° Ⅱ 40′16		asc. node	11769 Apr 11 16:38	15° 8 09'07	
retrograde	11768 Apr 26 07:45	0° Ⅱ 51'16		evening set	11769 Apr 15 05:08	13° 8 12'43	
	11768 Apr 29 10:34	30°₽ ႘		min. Earth dist.	11769 Apr 20 01:55	7° 8 29'26	0.68677 AU
evening set	11768 Apr 30 22:22	28° 8 57'29		inferior conj	11769 Apr 20 14:32	6° ႘ 45'58	2°28'46
inferior conj	11768 May 06 05:19	22° 8 37'52	2°54'37	minimum elong	11769 Apr 20 12:25	6° 8 53'14	2°27'51
minimum elong	11768 May 06 03:38	22° 8 43'44	2°53'45	morning rise	11769 Apr 25 19:39	0° 8 39'56	
min. Earth dist.	11768 May 06 05:06	22° 8 38'37	0.68732 AU		11769 Apr 26 17:53	30° ŖƳ	
morning rise	11768 May 11 08:43	16° 8 25'15		direct	11769 Apr 30 02:30	28° Y 57'21	
direct	11768 May 16 04:38	14° 8 21'37			11769 May 03 17:26	0°8	
morning max el	11768 May 25 17:32	19° 8 58'04	22°16'37	morning max el	11769 May 08 10:24	3° 8 43'39	20°54'23
desc. node	11768 May 28 07:10	22° 8 43'01		desc. node	11769 May 15 04:01	11° 8 36'23	
	11768 Jun 03 05:04	Π $^{\circ}0$			11769 May 28 04:13	Π $^{\circ}0$	
	11768 Jun 23 18:08	$0 \circ \mathfrak{S}$		morning set	11769 Jun 07 15:08	15° Ⅱ 56′03	
morning set	11768 Jun 28 01:30	6° © 52'20		max. Earth dist.	11769 Jun 15 11:34	28° Ⅲ 25′10	1.43098 AU
max. Earth dist.	11768 Jul 03 06:19	15° 5 26'54	1.41055 AU		11769 Jun 16 10:53	0 \circ \odot	
superior conj	11768 Jul 11 01:24	28° © 56'23	-1°28'34	superior conj	11769 Jun 22 10:35	9° © 55'55	
minimum elong	11768 Jul 11 07:33	29° 5 23'46	1°28'29	minimum elong	11769 Jun 22 17:07	10° © 23'29	1°56'30
	11768 Jul 11 15:39	0 \circ Ω			11769 Jul 03 23:19	0 \circ Ω	
evening rise	11768 Jul 21 09:43	17° Ω 57'12		evening rise	11769 Jul 04 07:50	0° Ω 37'53	
asc. node	11768 Jul 21 18:17	18° Ω 37'12		asc. node	11769 Jul 08 15:10	8° Ω 15'53	
	11768 Jul 27 23:40	0° ™		evening max el	11769 Jul 20 21:58	26° Ω 33'02	18°04'08
evening max el	11768 Aug 06 09:44	13° m 31'49	18°17'42	retrograde	11769 Jul 27 12:58	29° Ω 57'01	
retrograde	11768 Aug 13 17:46	17° m) 14'05		evening set	11769 Jul 30 00:55	29° Ω 27'56	
evening set	11768 Aug 15 21:41	16° m 55'28		inferior conj	11769 Aug 05 17:26	24° Ω 28'04	1°32'58
inferior conj	11768 Aug 23 07:36	12° m 15'41	0°16'42	minimum elong	11769 Aug 05 19:51	24° Ω 22'11	1°31'41
minimum elong	11768 Aug 23 08:10	12° m 14'29	0°16'10	min. Earth dist.	11769 Aug 08 21:04	21° Ω 26'03	0.61002 AU
desc. node	11768 Aug 24 05:28	11° m 29'32		desc. node	11769 Aug 11 02:49	19° Ω 31′00	
min. Earth dist.	11768 Aug 26 15:47	9° m/28'40	0.58732 AU	morning rise	11769 Aug 12 12:06	18° Ω 30'58	
morning rise	11768 Aug 30 15:09	6° TQ 44'48		direct	11769 Aug 19 03:03	16° Ω 18'45	
direct	11768 Sep 05 21:34	4° m 59'21		morning max el	11769 Sep 02 09:05	24° Ω 16′27	27°56'07
morning max el	11768 Sep 20 06:03	12° m 43'44	27°25'02		11769 Sep 07 13:38	0° m	

	11760 Cap. 27, 06:12	0∘ ত			11770 Avg 07 07:41	0.0	
asc. node	11769 Sep 27 06:12 11769 Oct 04 16:14	14° £ 23'02		morning max el	11770 Aug 07 07:41 11770 Aug 15 17:17	0°Ω 6°Ω32'22	27949140
morning set	11769 Oct 04 10:14 11769 Oct 05 10:45	14 = 23 02 15° £ 58'29		morning max er	11770 Aug 13 17.17 11770 Sep 02 14:36	0° m)	27 46 49
max. Earth dist.	11769 Oct 11 06:34	28° £ 27'34	1.31565 AU	morning set	11770 Sep 02 14:30 11770 Sep 19 07:06	29° Mp 47'29	
max. Earth dist.	11769 Oct 11 23:20	0°M	1.51505710	morning set	11770 Sep 19 09:35	0∘ ರ	
	11707 000 11 25.20	0 110		asc. node	11770 Sep 21 12:56	ა — 4° ჲ 22'04	
superior conj	11769 Oct 12 17:45	1°ML41'43	1°11'47	max. Earth dist.	11770 Sep 24 09:05	10° £ 20'05	1.32305 AU
minimum elong	11769 Oct 12 15:31	1° M 29'21	1°11'48		ī		
evening rise	11769 Oct 19 10:59	16°M29'10		superior conj	11770 Sep 27 01:29	16° ≏ 06'58	0°51'46
	11769 Oct 26 01:16	0° ∡ ¹		minimum elong	11770 Sep 26 23:24	15° ≏ 55'37	0°51'31
desc. node	11769 Nov 06 23:47	19° ∡ ⁴45'23			11770 Oct 03 10:18	0° M	
evening max el	11769 Nov 15 01:44	29° ∡ 11'43	25°12'07	evening rise	11770 Oct 03 22:20	1° M .04'40	
	11769 Nov 15 22:35	0°ಕ			11770 Oct 19 16:57	0° ∡ ¹	
retrograde	11769 Nov 28 21:59	6° ට 08'34		desc. node	11770 Oct 24 21:05	6° ∡ ³38'07	
evening set	11769 Dec 04 16:36	4°る53'09		evening max el	11770 Oct 27 12:25	9° ∡ ¹24'07	23°34'01
min. Earth dist.	11769 Dec 09 13:47	2°る12'13	0.57016 AU	retrograde	11770 Nov 09 23:27	16° ∡ 06'45	
inferior conj	11769 Dec 12 08:29	0°る21'39 0°る09'19		evening set	11770 Nov 14 11:28	15° × 22'42	0.55467.411
minimum elong	11769 Dec 12 15:54	0° 0 09°19	5*13*28	min. Earth dist.	11770 Nov 20 22:31	12° ∡ 18'11	0.55467 AU
morning rise	11769 Dec 12 21:31 11769 Dec 20 17:28	30° ₹ X' 26° X '09'55		minimum elong	11770 Nov 22 18:07 11770 Nov 22 19:38	11° х 13'56 11° х 11'41	5°49'06
direct	11769 Dec 20 17.28 11769 Dec 23 00:34	25° x 54'33		morning rise	11770 Nov 22 19.38 11770 Dec 01 05:37	7° × ⁷ 20'56	3 49 00
asc. node	11769 Dec 31 16:24	29° × 50'49		direct	11770 Dec 04 01:03	7° × 701'34	
ase. node	11769 Dec 31 20:23	0°る		morning max el	11770 Dec 14 17:41	12°×706'22	20°19'59
morning max el	11770 Jan 01 05:08	0° පි 20'41	19°08'49	asc. node	11770 Dec 18 13:29	16° ∡ 22'03	20 19 09
morning set	11770 Jan 17 22:59	27° る 20'10			11770 Dec 27 03:38	0°ප	
C	11770 Jan 19 07:10	0° ≈		morning set	11771 Jan 02 05:25	11° る 58'30	
superior conj	11770 Jan 26 05:33	13° ≈ 38'57	0°58'27	superior conj	11771 Jan 09 19:25	27° る 32'37	
minimum elong	11770 Jan 26 08:30	13° ≈ 53'07	0°58'38	minimum elong	11771 Jan 09 22:02	27° る 45'50	1°19'20
max. Earth dist.	11770 Feb 02 00:38	26°≈19'20	1.38666 AU	T	11771 Jan 11 00:45	0° ≈	1.2640.5.433
desc. node	11770 Feb 02 23:13	28°≈00'29		max. Earth dist.	11771 Jan 15 08:03	8°≈24'45	1.36495 AU
avanina risa	11770 Feb 04 02:12 11770 Feb 05 19:24	0° ∺ 2° ∺ 59'40		evening rise desc. node	11771 Jan 19 03:25 11771 Jan 20 19:59	15°≈31'02 18°≈33'58	
evening rise	11770 Feb 03 19.24 11770 Feb 22 21:02	2 χ3940 0° Υ		desc. node	11771 Jan 20 19.39	1° ≈33 3° 0° X	
evening max el	11770 Mar 13 02:44	22° Υ 56'48	24°42'02		11771 Feb 17 11:24	0° Υ	
retrograde	11770 Mar 24 18:34	29° Υ 44'54	24 42 02	evening max el	11771 Feb 23 16:10	6° Υ 46'48	25°53'43
asc. node	11770 Mar 29 13:59	28° Y ′01'47		retrograde	11771 Mar 08 05:23	13° Y ′58'01	20 03 .3
evening set	11770 Mar 30 08:36	27° Y ′24'51		evening set	11771 Mar 14 07:10	11° Y ′29'00	
min. Earth dist.	11770 Apr 03 21:19	22° Y 17'12	0.68187 AU	asc. node	11771 Mar 16 11:20	9° Y 22'50	
inferior conj	11770 Apr 04 22:06	20° Ƴ 54'51	1°53'13	min. Earth dist.	11771 Mar 18 13:07	6° Y 56'31	0.67271 AU
minimum elong	11770 Apr 04 19:59	21° Y ′01'52	1°52'21	inferior conj	11771 Mar 20 02:02	5° Y 00'32	1°07'53
morning rise	11770 Apr 10 07:32	14° Y 56'48		minimum elong	11771 Mar 20 00:28	5° Y 05'28	1°07'19
direct	11770 Apr 14 01:57	13° Ƴ 35'26			11771 Mar 24 15:49	30° ₹ ₩	
morning max el	11770 Apr 21 10:43	17° Y 41'07	19°44'31	morning rise	11771 Mar 25 18:24	29°) 12′03	
	11770 May 01 06:38	0°8		direct	11771 Mar 29 01:20	28°) 10′19	
desc. node	11770 May 02 00:47	1° 8 04'38	0.6		11771 Apr 02 16:36	0° Υ	10040150
greatest brilliancy	11770 May 04 06:19 11770 May 17 15:11	4° 8 18'14 24° 8 27'51	-0.6m	morning max el desc. node	11771 Apr 04 18:41	1° Υ 48'20 20° Υ 58'28	18°49'58
morning set	•	0° Ⅱ			11771 Apr 18 21:30	20 1 38 28 21° Υ 58'00	-0.8m
max. Earth dist.	11770 May 21 05:14 11770 May 29 00:03		1.44650 AU	greatest brilliancy	11771 Apr 19 13:01 11771 Apr 24 17:35	21° 1 3800	-0.0111
max. Earth dist.	11770 Way 29 00.03	12 11130	1.44030 AO	morning set	11771 Apr 24 17:33 11771 Apr 27 00:00	3° 8 31'44	
superior conj	11770 Jun 02 19:37	19° Ⅱ 53'39	-2°11'56	max. Earth dist.	11771 May 11 17:35		1.45542 AU
minimum elong	11770 Jun 02 22:17	20° Ⅱ 04'22				_, _,	
Č	11770 Jun 09 00:12	0° ©		superior conj	11771 May 13 08:40	29° 8 03'31	-2°09'19
evening rise	11770 Jun 16 10:29	12° 5 26'11		minimum elong	11771 May 13 03:51	28° 8 44'36	2°09'47
asc. node	11770 Jun 25 12:06	27° © 35'48			11771 May 13 23:04	Π $^{\circ}$ 0	
	11770 Jun 27 00:29	$0^{\circ}\Omega$		evening rise	11771 May 28 13:35	23° Ⅱ 14'35	
evening max el	11770 Jul 04 12:03	9° Ω 55'10	18°09'23		11771 Jun 01 18:05	0 \circ 50	
retrograde	11770 Jul 10 20:41	13° Ω 15'44		asc. node	11771 Jun 12 09:07	16° © 30'25	
evening set	11770 Jul 13 16:44	12° £ 33'32		evening max el	11771 Jun 18 00:50	23°530'23	18°32'45
inferior conj	11770 Jul 19 19:29	7° Ω 15'20	2°25'28	retrograde	11771 Jun 24 12:37	27°501'20	
minimum elong	11770 Jul 19 22:03	7° Ω 08'17	2°24'10	evening set	11771 Jun 27 16:51	26°504'21	2057122
min. Earth dist.	11770 Jul 22 11:38	4° Ω 20′26	0.63220 AU	inferior conj	11771 Jul 03 09:43	20°529'51	2°57'32
morning rise	11770 Jul 26 01:38 11770 Jul 27 14:29	1° Ω 02'09 30° ₹©		minimum elong min. Earth dist.	11771 Jul 03 11:31 11771 Jul 05 11:34	20° © 24'22 17° © 59'37	2°56'29 0.65176 AU
desc. node	11770 Jul 27 14.29 11770 Jul 29 00:08	30 k≌ 29°€17'23		morning rise	11771 Jul 03 11.34 11771 Jul 09 05:12	17 93937 14°908'58	0.031/0 AU
direct	11770 Aug 01 18:09	29 \$31723 28°\$30'22		direct	11771 Jul 15 17:24	14 908 38 11°927'27	
3	-1,,011ug 01 10.0)	20 - 30 22			-1,,10d1 10 1/.2T	2/2/	

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desc. node	11771 Jul 15 21:21	11° © 27'33			11772 Jun 19 14:04	30°RⅡ	
morning max el	11771 Jul 29 04:05	19° © 22'39	27°07'39	morning rise	11772 Jun 21 19:58	27° Ⅱ 41'25	
	11771 Aug 07 04:55	0 \circ Ω		direct	11772 Jun 27 23:42	25° Ⅱ 00′25	
	11771 Aug 26 15:17	0° m y		desc. node	11772 Jul 01 18:31	25° Ⅱ 51′09	
morning set	11771 Sep 02 17:47	13° m 07'24			11772 Jul 07 22:07	0 \circ \odot	
max. Earth dist.	11771 Sep 07 03:02	21° m 49'49	1.33561 AU	morning max el	11772 Jul 10 14:54	2° © 33'54	26°00'30
asc. node	11771 Sep 08 09:38	24° Mp 26'38			11772 Jul 31 09:16	$0^{\circ}\Omega$	
				morning set	11772 Aug 15 15:17	25° Ω 48'40	
superior conj	11771 Sep 11 04:08	0° ჲ 13'59	0°26'41		11772 Aug 17 21:04	0° m y	
minimum elong	11771 Sep 11 02:49	0° ჲ 07'02	0°26'21	max. Earth dist.	11772 Aug 19 10:19	2° m 57'50	1.35302 AU
	11771 Sep 11 01:29	0∘ ত					
evening rise	11771 Sep 18 09:02	15° ≏ 35'48		superior conj	11772 Aug 24 23:05	13° m 55'33	-0°02'55
C	11771 Sep 25 13:05	0° M .		minimum elong	11772 Aug 24 23:16	13° m 56'31	0°03'10
evening max el	11771 Oct 09 01:03	19° M 30'10	21°53'59	behind sun begin	11772 Aug 24 17:18	13° m)26'10	
desc. node	11771 Oct 11 18:24	21°M54'07		behind sun end	11772 Aug 25 05:15	14° m) 26'54	
retrograde	11771 Oct 21 14:15	25°M44'37		asc. node	11772 Aug 25 06:21	14° m/32'29	
evening set	11771 Oct 24 15:40	25°M23'36		evening rise	11772 Sep 01 17:02	29° m 56'26	
min. Earth dist.	11771 Nov 02 05:09	21°M37'45	0.54643 AU	evening rise	11772 Sep 01 17:44	ე∘ 亞	
inferior conj	11771 Nov 02 03:09	21°M26'48			11772 Sep 01 17:44 11772 Sep 19 22:14	0° ™	
3				arranina marral	11772 Sep 19 22.14 11772 Sep 20 00:42	0°M06'09	20°26'59
minimum elong	11771 Nov 02 06:06		3 29 38	evening max el desc. node	•	5°ML04'31	20 20 39
morning rise	11771 Nov 10 21:48	17°M39'35			11772 Sep 27 15:45		
direct	11771 Nov 14 11:07	17°M11'52		retrograde	11772 Oct 01 02:02	5°M35'33	
morning max el	11771 Nov 26 16:26	23°M00'20	21°52'40	evening set	11772 Oct 03 04:22	5° M 24'34	
	11771 Dec 02 17:42	0° ∡ 7		inferior conj	11772 Oct 12 05:43	1°M28'19	
asc. node	11771 Dec 05 10:28	3° ∡ 55′27		minimum elong	11772 Oct 11 19:45	1°M42'50	4°12'38
morning set	11771 Dec 17 15:28	26° ∡ ¹44'06		min. Earth dist.	11772 Oct 13 13:12	0° M 42′25	0.54739 AU
	11771 Dec 19 04:34	0°₹			11772 Oct 14 18:55	30° ₹ Ω	
				morning rise	11772 Oct 20 10:35	27° ₽ 26′25	
superior conj	11771 Dec 24 18:42	11° る 51'30	1°31'59	direct	11772 Oct 24 20:02	26° ≏ 44'49	
minimum elong	11771 Dec 24 20:23	12° る 00'24	1°32'39		11772 Nov 03 05:03	0° M	
max. Earth dist.	11771 Dec 28 20:36	20° ප 16'38	1.34577 AU	morning max el	11772 Nov 07 05:20	3° ™ 15'39	23°39'05
evening rise	11772 Jan 02 03:24	28° る 42'52		asc. node	11772 Nov 21 07:23	22°M16'39	
	11772 Jan 02 19:34	0° ≈			11772 Nov 25 12:02	0° ∡ ¹	
desc. node	11772 Jan 07 16:49	8° ≈ 58'06		morning set	11772 Dec 01 03:10	11° ∡ ³31′22	
	11772 Jan 20 17:12	0° ∀		•			
evening max el	11772 Feb 06 05:39	20° ¥ 29'19	26°50'23	superior conj	11772 Dec 08 00:22	26° ∡ ¹26'43	1°38'17
retrograde	11772 Feb 19 10:46	27° ¥ 52'30		minimum elong	11772 Dec 08 00:55	26° ∡ ¹29'42	1°39'03
evening set	11772 Feb 25 22:57	25°) 19'19			11772 Dec 09 15:59	0°ප	
min. Earth dist.	11772 Feb 29 23:13	21°) (20'49	0.65959 AU	max. Earth dist.	11772 Dec 10 16:56		1.33059 AU
asc. node	11772 Mar 02 08:40	19°) (43'43	0.02727110	evening rise	11772 Dec 15 15:47	12°る26'25	1.55057110
inferior conj	11772 Mar 02 00:10	18° ¥ 58'15	0°12'34	desc. node	11772 Dec 24 13:44	29° る 07'49	
minimum elong	11772 Mar 03 00:11	18° ¥ 59'17	0°12'39	dese. Hode	11772 Dec 25 01:45	0° ≈	
transit middle	11772 Mar 02 23:50	18° ¥ 59'17	0°12'39		11772 Dec 23 01:43 11773 Jan 14 23:47	0° ∺	
transit begin	11772 Mar 02 23:30 11772 Mar 02 22:01	19° X 04'35	0 12 39	evening max el	11773 Jan 14 23.47	3° ¥ 55'00	27°24'50
transit begin	11772 Mar 02 22:01 11772 Mar 03 01:39	18° X 53'59		-	11773 Feb 01 09:51	11° X 19'52	27 24 30
		18 X 33 39 13° X 21'11		retrograde	11773 Feb 01 09.31 11773 Feb 08 05:47	8° X 49'13	
morning rise	11772 Mar 09 01:59			evening set			0.64204.411
direct	11772 Mar 11 22:45	12°) €36'07	10011154	min. Earth dist.	11773 Feb 12 01:40	5°) €22'17	0.64294 AU
morning max el	11772 Mar 18 08:34	15°) €59'17	18°11'54	inferior conj	11773 Feb 14 14:05	2°) (42'23	
	11772 Mar 28 17:53	0°Υ		minimum elong	11773 Feb 14 15:42	2°) (38'04	0°51'27
desc. node	11772 Apr 04 18:09	11° Υ 10'43		asc. node	11773 Feb 17 05:58	0° ∺ 01'26	
morning set	11772 Apr 06 10:33	13° Y ′53′24			11773 Feb 17 06:36	30°R ≈	
	11772 Apr 16 12:35	0° 8		morning rise	11773 Feb 21 03:35	27° ≈ 19′06	
				direct	11773 Feb 23 15:49	26° ≈ 47'03	
superior conj	11772 Apr 21 15:46	8° 8 04'42			11773 Mar 01 23:04	0° ∀	
minimum elong	11772 Apr 21 06:26	7° 8 28'09	1°46'17	morning max el	11773 Mar 02 01:45	0° ₩ 06'31	17°50'53
max. Earth dist.	11772 Apr 23 13:09	11° 8 02'20	1.45702 AU	morning set	11773 Mar 19 01:45	25°) 39′21	
	11772 May 05 17:16	Π \circ 0			11773 Mar 21 15:47	0 ° Υ	
evening rise	11772 May 07 17:22	3° Ⅱ 07'06		desc. node	11773 Mar 22 14:48	1° Y 36'21	
greatest brilliancy	11772 May 19 08:39	21° II 05'00	-0.7m				
	11772 May 25 11:46	0 \circ \mathfrak{S}		superior conj	11773 Apr 01 10:55	17° Y ′44'58	-1°09'53
asc. node	11772 May 29 06:12	4° © 50'29		minimum elong	11773 Apr 01 03:33	17° Y 15'18	1°09'05
evening max el	11772 May 31 09:52	7° © 11'56	19°13'20	max. Earth dist.	11773 Apr 06 08:23	25° Ƴ 32'45	1.45129 AU
retrograde	11772 Jun 07 09:12	11° © 05'46			11773 Apr 09 04:25	0°B	
evening set	11772 Jun 10 22:02	9° © 53'02		evening rise	11773 Apr 17 06:29	12° 8 30'44	
inferior conj	11772 Jun 16 08:33	4° © 03'52	3°12'58	Č	11773 Apr 28 20:17	0°II	
minimum elong	11772 Jun 16 09:16	4°901'31	3°12'07	greatest brilliancy	11773 May 02 07:00	5° Ⅱ 03'27	-0.6m
min. Earth dist.	11772 Jun 17 19:36	2°9510'12	0.66755 AU	evening max el	11773 May 14 13:41	20° I I56'35	20°09'28
		0 12			11 15.F1		

aga mada	11772 May 16 02:20	22° Ⅱ 25'12		avanina aat	11774 May 10 14:44	8° Ⅱ 05'40	
asc. node	11773 May 16 03:20			evening set	•		2004157
retrograde	11773 May 22 07:44	25° Ⅱ 23'49		inferior conj	11774 May 15 21:09	1° I I51'50	3°04'57
evening set	11773 May 26 05:57	23° Ⅱ 54'53	201.015	minimum elong	11774 May 15 19:53	1° II 56'17	3°04'09
inferior conj	11773 May 31 13:09	17° Ⅱ 52'34	3°14'45	min. Earth dist.	11774 May 16 04:21	1° Ⅱ 26'48	0.68568 AU
minimum elong	11773 May 31 12:47	17° Ⅲ 53'47	3°13'59		11774 May 17 05:34	30° ₹ 8	
min. Earth dist.	11773 Jun 01 09:54	16° ∐ 42'02	0.67897 AU	morning rise	11774 May 21 00:48	25° 8 36'14	
morning rise	11773 Jun 05 19:18	11° Ⅲ 32'22		direct	11774 May 26 04:27	23° 8 21'16	
direct	11773 Jun 11 11:45	9° Ⅲ 01'01		morning max el	11774 Jun 05 10:55	29° 8 27'10	23°07'23
desc. node	11773 Jun 18 15:36	12° Ⅱ 01'26		desc. node	11774 Jun 05 12:36	29° 8 31'25	
morning max el	11773 Jun 23 00:42	15° Ⅱ 56′26	24°37'02		11774 Jun 05 23:46	Π $^{\circ}0$	
	11773 Jul 04 14:59	0 \circ			11774 Jun 28 09:25	0 \circ \odot	
	11773 Jul 24 07:52	$0^{\circ}\Omega$		morning set	11774 Jul 10 00:32	18° 5 29'36	
morning set	11773 Jul 28 19:09	7° Ω 39'57		max. Earth dist.	11774 Jul 14 06:49	25°5942'50	1.39752 AU
max. Earth dist.	11773 Aug 01 09:17	14° Ω 04'22	1.37435 AU		11774 Jul 16 17:50	0 \circ Ω	
	11772 4 00 07 11	270 00 4101	0025140		11774 1 22 00 25	00 020122	1000140
superior conj	11773 Aug 08 07:11	27° Ω 04'01		superior conj	11774 Jul 22 00:35	9° Ω 30'33	
minimum elong	11773 Aug 08 09:34	27° Ω 15'35	0°35'50	minimum elong	11774 Jul 22 05:30	9° Ω 53'11	1°09'42
	11773 Aug 09 19:16	0° m)		asc. node	11774 Jul 29 23:48	24° Ω 32'53	
asc. node	11773 Aug 12 03:02	4° m 35'34		evening rise	11774 Jul 31 14:51	27° Ω 40'16	
evening rise	11773 Aug 16 19:56	14°M) 00'16			11774 Aug 01 20:02	0° m)	
	11773 Aug 25 06:46	0∘ ⊽		evening max el	11774 Aug 16 16:00	23° Mp 36'34	18°34'29
evening max el	11773 Sep 02 14:25	11° ≏ 28'39	19°20'02	retrograde	11774 Aug 24 14:41	27° My 36'05	
retrograde	11773 Sep 11 23:11	16° ≙ 08'40		evening set	11774 Aug 26 14:44	27° m 21'41	
evening set	11773 Sep 13 19:27	15° ≏ 58'35		desc. node	11774 Sep 01 10:34	24° m 24'39	
desc. node	11773 Sep 14 13:09	15° ≏ 49'09		inferior conj	11774 Sep 03 11:33	22° m 53'31	-0°38'12
inferior conj	11773 Sep 22 10:25	11° ≏ 50'09	-2°27'27	minimum elong	11774 Sep 03 10:02	22° M 56'25	0°37'46
minimum elong	11773 Sep 22 03:56	12° ♀ 00'46	2°24'55	min. Earth dist.	11774 Sep 06 17:11	20° m 25'43	0.57509 AU
min. Earth dist.	11773 Sep 25 00:32	10° ഫ 08'38	0.55760 AU	morning rise	11774 Sep 11 01:54	17° m 42'34	
morning rise	11773 Sep 30 09:52	7° ₽ 16'46		direct	11774 Sep 17 00:31	16° m 14'04	
direct	11773 Oct 05 15:19	6° ₽ 14'37		morning max el	11774 Oct 01 07:59	23° m 45'48	26°50'12
morning max el	11773 Oct 19 16:09	13° ≏ 20'01	25°24'14	Č	11774 Oct 06 23:43	0∘ <u>⊽</u>	
	11773 Nov 01 16:47	0°M			11774 Oct 25 17:39	0° M	
asc. node	11773 Nov 08 04:15	11°ML13'24		asc. node	11774 Oct 26 01:03	0°M36'20	
morning set	11773 Nov 15 14:43	26°M14'47		morning set	11774 Oct 31 00:32	10°M50'02	
morning set	11773 Nov 17 08:22	0° √		morning set	11//4 Oct 31 00.32	10 11030 02	
	11775110717 00.22	· .		superior conj	11774 Nov 06 21:28	25°M56'12	1°32'25
superior conj	11773 Nov 22 09:57	11° √ 10'17	1°38'18	minimum elong	11774 Nov 06 19:59		1°32'54
minimum elong	11773 Nov 22 09:24	11° × ⁷ 07'10	1°39'00	max. Earth dist.	11774 Nov 07 04:46	26°M36'53	1.31443 AU
max. Earth dist.	11773 Nov 22 09:24 11773 Nov 23 20:34	14° × ⁷ 20'49	1.32008 AU	max. Larm dist.	11774 Nov 07 04:40	0° ⊀ ¹	1.51445 AO
evening rise	11773 Nov 29 13:23	26° × 32'42	1.32000 AC	evening rise	11774 Nov 13 17:35	0 ^ 10° √ 354'57	
evening rise	11773 Nov 25 15:25 11773 Dec 01 05:55	0°る		evening rise	11774 Nov 23 11:18	0°중	
JJ.		18°る55'59		4 4-			
desc. node	11773 Dec 11 10:43			desc. node	11774 Nov 28 07:49	8°る13'58	27002124
	11773 Dec 18 10:55	0° ≈	27020124	evening max el	11774 Dec 14 10:16	29° る 03'07	27°02'24
evening max el	11774 Jan 01 05:01	16°≈50'36	27°30'24		11774 Dec 15 11:02	0° ≈	
retrograde	11774 Jan 15 01:29	24°≈09'48		retrograde	11774 Dec 28 08:24	6°≈14'02	
evening set	11774 Jan 22 00:50	21° ≈ 49'33		evening set	11775 Jan 04 04:40	4°≈12'38	
min. Earth dist.	11774 Jan 25 18:33	18° ≈ 49'45	0.62350 AU	min. Earth dist.	11775 Jan 08 00:39	1° ≈ 31'47	0.60237 AU
inferior conj	11774 Jan 28 16:41	16° ≈ 04'16			11775 Jan 09 21:25	30°Rる	
minimum elong	11774 Jan 28 20:57	15° ≈ 54'09	2°04'00	inferior conj	11775 Jan 11 04:33	28° る 54'54	
asc. node	11774 Feb 04 03:16	11° ≈ 13'17		minimum elong	11775 Jan 11 11:35	28° ⋜ 40'19	3°21'45
morning rise	11774 Feb 04 19:36	10° ≈ 57'43		morning rise	11775 Jan 18 21:18	24° る 08'27	
direct	11774 Feb 07 01:29	10° ≈ 34'53		direct	11775 Jan 20 23:47	23° る 51'15	
morning max el		14° ≈ 00'37	17°47'30	asc. node	11775 I 22 00 22	23° る 55'32	
	11774 Feb 13 19:07	14 /01003/			11775 Jan 22 00:32	23 03332	
	11774 Feb 13 19:07 11774 Feb 24 19:37	0° ∺		morning max el	11775 Jan 22 00:32 11775 Jan 28 09:20	27° る 32'37	18°02'47
morning set							18°02'47
morning set desc. node	11774 Feb 24 19:37	0° ∀			11775 Jan 28 09:20	27° る 32'37	18°02'47
•	11774 Feb 24 19:37 11774 Mar 01 16:16	0° 兴 8° 兴 31'42		morning max el	11775 Jan 28 09:20 11775 Jan 30 14:37	27° る 32'37 0°≈	18°02'47
•	11774 Feb 24 19:37 11774 Mar 01 16:16	0° 兴 8° 兴 31'42	-0°28'19	morning max el	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45	27° る 32'37 0°≈ 22°≈10'57	
desc. node	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26	0° ₩ 8° ₩31'42 22° ₩10'17 28° ₩30'37 28° ₩18'59		morning max el	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45	27° る 32'37 0°≈ 22°≈10'57	18°02'47 0°10'38
desc. node	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56	0°₩ 8°₩31'42 22°₩10'17 28°₩30'37		morning max el morning set	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06	27°る32'37 0°≈ 22°≈10'57 0°光	
desc. node	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10	0° ₩ 8° ₩31'42 22° ₩10'17 28° ₩30'37 28° ₩18'59		morning max el morning set superior conj	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17	27°♂32'37 0°≈ 22°≈10'57 0°¥ 10°¥24'25	0°10'38
desc. node superior conj minimum elong	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10 11774 Mar 14 02:16	0°₩ 8°₩31'42 22°₩10'17 28°₩30'37 28°₩18'59 0°Ψ	0°27'47	morning max el morning set superior conj minimum elong	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17 11775 Feb 23 00:10	27°♂32'37 0°≈ 22°≈10'57 0°¥ 10°¥24'25 10°¥28'19	0°10'38
desc. node superior conj minimum elong max. Earth dist.	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10 11774 Mar 14 02:16 11774 Mar 20 01:20	0°₩ 8°₩31'42 22°₩10'17 28°₩30'37 28°₩18'59 0°Ψ 9°Ψ47'01	0°27'47	morning max el morning set superior conj minimum elong behind sun begin	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17 11775 Feb 23 00:10 11775 Feb 22 18:21	27°♂32'37 0°≈ 22°≈10'57 0°₩ 10°₩24'25 10°₩28'19 10°₩02'32	0°10'38
desc. node superior conj minimum elong max. Earth dist.	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10 11774 Mar 14 02:16 11774 Mar 20 01:20 11774 Mar 27 20:06	0°¥ 8°¥31'42 22°¥10'17 28°¥30'37 28°¥18'59 0°Y 9°Y47'01 22°Y04'26	0°27'47	morning max el morning set superior conj minimum elong behind sun begin behind sun end	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17 11775 Feb 23 00:10 11775 Feb 22 18:21 11775 Feb 23 05:59	27°♂32'37 0°≈ 22°≈10'57 0°升 10°升24'25 10°升28'19 10°升02'32 10°升54'03	0°10'38
desc. node superior conj minimum elong max. Earth dist.	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10 11774 Mar 14 02:16 11774 Mar 20 01:20 11774 Mar 27 20:06 11774 Apr 02 00:26	0°¥ 8°¥31'42 22°¥10'17 28°¥30'37 28°¥18'59 0°° 9°°¥47'01 22°°¥04'26 0°8	0°27'47	morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17 11775 Feb 23 00:10 11775 Feb 23 05:59 11775 Feb 24 08:04	27°♂32'37 0°≈ 22°≈10'57 0°¥ 10°¥24'25 10°¥28'19 10°¥02'32 10°¥54'03 12°¥48'51	0°10'38 0°10'49
desc. node superior conj minimum elong max. Earth dist. evening rise	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10 11774 Mar 14 02:16 11774 Mar 20 01:20 11774 Mar 27 20:06 11774 Apr 02 00:26 11774 Apr 23 07:05	0°₩ 8°₩31'42 22°₩10'17 28°₩30'37 28°₩18'59 0°Ψ 9°Ψ47'01 22°Ψ04'26 0°₩ 0°Ш	0°27'47 1.43878 AU	morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17 11775 Feb 23 00:10 11775 Feb 23 05:59 11775 Feb 24 08:04 11775 Mar 02 14:04	27°♂32'37 0°≈ 22°≈10'57 0° ₩ 10° ₩24'25 10° ₩28'19 10° ₩02'32 10° ₩54'03 12° ₩48'51 23° ₩29'51	0°10'38 0°10'49
desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	11774 Feb 24 19:37 11774 Mar 01 16:16 11774 Mar 09 11:26 11774 Mar 13 04:56 11774 Mar 13 02:10 11774 Mar 14 02:16 11774 Mar 20 01:20 11774 Mar 27 20:06 11774 Apr 02 00:26 11774 Apr 23 07:05 11774 Apr 27 11:54	0°₩ 8°₩31'42 22°₩10'17 28°₩30'37 28°₩18'59 0°Ψ 9°Ψ47'01 22°Ψ'04'26 0°₩ 0°Ⅲ 4°Ⅲ42'41	0°27'47 1.43878 AU	morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist.	11775 Jan 28 09:20 11775 Jan 30 14:37 11775 Feb 12 23:45 11775 Feb 17 05:06 11775 Feb 22 23:17 11775 Feb 23 00:10 11775 Feb 23 05:59 11775 Feb 24 08:04 11775 Mar 02 14:04 11775 Mar 06 13:08	27°♂32'37 0°≈ 22°≈10'57 0° ₩ 10° ₩24'25 10° ₩28'19 10° ₩02'32 10° ₩54'03 12° ₩48'51 23° ₩29'51 0° ❤	0°10'38 0°10'49

evening max el	11775 Apr 10 05:16	18° 8 29'44	22°36'06	evening max el	11776 Mar 22 19:37	2° 8 19'06	23°56'47
asc. node	11775 Apr 19 21:51	24° 8 20'45	22 30 00	retrograde	11776 Apr 02 21:07	8° 8 49'41	25 50 .7
retrograde	11775 Apr 20 03:10	24° 8 20'59		asc. node	11776 Apr 05 19:10	8° 8 10'19	
evening set	11775 Apr 24 22:42	22° 8 20'46		evening set	11776 Apr 08 04:18	6° 8 36'02	
inferior conj	11775 Apr 30 06:29	15° 8 57'45	2°44'49	min. Earth dist.	11776 Apr 12 21:20	1° 8 08'03	0.68522 AU
minimum elong	11775 Apr 30 04:35	16° 8 04'24	2°43'55	inferior conj	11776 Apr 13 15:14	0° 8 07'09	2°14'53
min. Earth dist.	11775 Apr 30 00:52	16° 8 17'18	0.68771 AU	minimum elong	11776 Apr 13 13:04	0° 8 14'32	2°13'58
morning rise	11775 May 05 10:20	9° 8 48'04		· ·	11776 Apr 13 17:20	30° ₹ Υ	
direct	11775 May 10 00:39	7° 8 53'23		morning rise	11776 Apr 18 21:54	24° Y 04'28	
morning max el	11775 May 19 00:35	13° 8 07'13	21°40'23	direct	11776 Apr 22 23:15	22° Y 31'16	
desc. node	11775 May 23 09:30	17° 8 59'13		morning max el	11776 Apr 30 20:37	26° Ƴ 59′02	20°22'56
	11775 Jun 01 11:01	$\Pi^{\circ}0$			11776 May 03 15:32	9° 8	
morning set	11775 Jun 20 04:04	28° Ⅱ 09'54		desc. node	11776 May 09 06:19	7° 8 09'16	
	11775 Jun 21 07:40	0ංම			11776 May 24 21:39	Π °0	
max. Earth dist.	11775 Jun 26 08:44	8° © 12'22	1.41974 AU	morning set	11776 May 29 09:46	6° Ⅱ 54'31	
				max. Earth dist.	11776 Jun 07 17:07	21° Ⅱ 32'56	1.43828 AU
superior conj	11775 Jul 03 22:41	21° 5 04'02	-1°41'19		11776 Jun 12 22:02	0 \circ \odot	
minimum elong	11775 Jul 04 05:22	21°533'09	1°41'21				
	11775 Jul 08 23:50	$0^{\circ}\Omega$		superior conj	11776 Jun 13 21:37	1° 5 37'12	-2°04'47
evening rise	11775 Jul 14 21:54	10° Ω 46′05		minimum elong	11776 Jun 14 03:08	1° © 59'58	2°05'15
asc. node	11775 Jul 16 20:38	14° Ω 19'42		evening rise	11776 Jun 26 12:25	23° © 06'31	
	11775 Jul 26 00:40	0° m			11776 Jun 30 11:33	0 $^{\circ}\Omega$	
evening max el	11775 Jul 31 01:25	6° ™ 20'31	18°09'31	asc. node	11776 Jul 02 17:33	3° Ω 51'32	
retrograde	11775 Aug 07 00:56	9° m 53'30		evening max el	11776 Jul 13 14:49	19° Ω 31'41	18°04'02
evening set	11775 Aug 09 08:09	9° ™ 30'50		retrograde	11776 Jul 20 02:04	22° Ω 52'47	
inferior conj	11775 Aug 16 10:14	4° Mp 42'01	0°52'07	evening set	11776 Jul 22 17:19	22° Ω 18'33	
minimum elong	11775 Aug 16 11:51	4° m∕ 38′23	0°51'07	inferior conj	11776 Jul 29 03:31	17° Ω 10'43	1°57'58
desc. node	11775 Aug 19 07:58	2°Mp06'16		minimum elong	11776 Jul 29 06:10	17° Ω 03'56	1°56'36
min. Earth dist.	11775 Aug 19 17:28	1° Mp 45'57	0.59683 AU	min. Earth dist.	11776 Aug 01 02:53	14° Ω 08'56	0.61966 AU
	11775 Aug 21 23:08	30°R Ω		morning rise	11776 Aug 04 16:40	11° Ω 05'14	
morning rise	11775 Aug 23 12:21	28° Ω 58'31		desc. node	11776 Aug 05 05:18	10° Ω 43'45	
direct	11775 Aug 29 23:02	27° Ω 01'26		direct	11776 Aug 11 08:58	8° Ω 43'25	27057120
	11775 Sep 07 10:22	0° Mp	27042112	morning max el	11776 Aug 25 13:00	16° Ω 45'05	2/5/30
morning max el	11775 Sep 13 07:17	4° m 52'26	2/~43/13		11776 Sep 05 12:01	0° Т)	
1	11775 Oct 01 22:31	0° ™		. ,	11776 Sep 23 15:31	0° ₽	
asc. node morning set	11775 Oct 12 21:49	20° ♀ 17'30 25° ♀ 11'22		morning set	11776 Sep 28 07:21	9° ≙ 14'05 10° ≙ 11'36	
morning set	11775 Oct 15 06:44 11775 Oct 17 12:56	0°M		asc. node max. Earth dist.	11776 Sep 28 18:32 11776 Oct 03 19:29	10 ≗ 11 30 20° £ 53'08	1.31811 AU
max. Earth dist.	11775 Oct 17 12.36 11775 Oct 21 13:40		1.31371 AU	max. Earm dist.	11//0 Oct 03 19.29	20 == 33 08	1.31811 AU
max. Earth dist.	11//3 Oct 21 13.40	0 1163040	1.313/1 AU	superior conj	11776 Oct 05 18:39	25° £ 11'08	1°03'56
superior conj	11775 Oct 22 08:58	10°MJ38'05	1°20'54	minimum elong	11776 Oct 05 16:39	24° £ 58'48	1°03'49
minimum elong	11775 Oct 22 06:53	10°M26'29	1°21'05	minimum ciong	11776 Oct 03 10:24 11776 Oct 07 23:02	0°M	1 03 47
evening rise	11775 Oct 22 00:95	25°M26'02	1 21 03	evening rise	11776 Oct 07 23:02 11776 Oct 12 12:54	10°M01'19	
evening rise	11775 Oct 25 02:04 11775 Oct 31 05:48	0° ⊀		evening rise	11776 Oct 12 12:34 11776 Oct 22 15:14	0°×7	
desc. node	11775 Nov 15 05:00	26° ₹ 149'12		desc. node	11776 Nov 01 02:14	14° × 125'30	
dese. Hode	11775 Nov 17 10:29	0°ਰ		evening max el	11776 Nov 06 20:58	20° ₹ '54'32	24°31'46
evening max el	11775 Nov 26 07:36		26°00'34	retrograde	11776 Nov 20 14:56	27° х 47'19	2.31.0
retrograde	11775 Dec 10 05:31	17° ට 26'08		evening set	11776 Nov 25 21:31	26° ₹ ¹45'41	
evening set	11775 Dec 16 12:57	15° ප 51'58		min. Earth dist.	11776 Dec 01 08:25	23° ∡ 56'51	0.56274 AU
min. Earth dist.	11775 Dec 20 20:24	13° る 16'20	0.58121 AU	inferior conj	11776 Dec 03 19:08	22° ∡ ¹24'37	-5°35'30
inferior conj	11775 Dec 23 22:07	11° ට 04'04	-4°39'58	minimum elong	11776 Dec 04 00:43	22° ∡ 15'49	5°34'03
minimum elong	11775 Dec 24 06:28	10° る 49'03	4°37'02	morning rise	11776 Dec 12 06:03	18° ∡ ¹21'54	
morning rise	11776 Jan 01 02:40	6°₹40'09		direct	11776 Dec 14 17:13	18° ₹ 05'31	
direct	11776 Jan 03 06:11	6° る 25'13		morning max el	11776 Dec 24 12:58	22° ∡ ¹47'36	19°36'24
asc. node	11776 Jan 08 21:44	8° る 15'40		asc. node	11776 Dec 25 18:52	24° ₹ 03'41	
morning max el	11776 Jan 11 16:37	10°る32'07	18°38'30		11776 Dec 30 09:58	ರ°0	
	11776 Jan 24 11:26	0° ≈		morning set	11777 Jan 10 22:17	20°る52'39	
morning set	11776 Jan 27 19:04	6° ≈ 21'55			11777 Jan 15 10:39	0° ≈	
superior conj	11776 Feb 05 14:17	23° ≈ 15'53	0°43'09	superior conj	11777 Jan 18 21:03	6° ≈ 50′26	1°08'02
minimum elong	11776 Feb 05 16:56	23° ≈ 28′14	0°43'15	minimum elong	11777 Jan 18 23:57	7° ≈ 04'44	1°08'19
	11776 Feb 09 06:09	0° ∀		max. Earth dist.	11777 Jan 25 04:00	18° ≈ 50'36	1.37713 AU
desc. node	11776 Feb 11 04:45	3°) €28'43		desc. node	11777 Jan 28 01:28	24°≈05'44	
max. Earth dist.	11776 Feb 12 22:04	6°) (30′26	1.39943 AU	evening rise	11777 Jan 28 21:21	25°≈34'01	
evening rise	11776 Feb 17 00:07	13°) €29'42			11777 Jan 31 10:25	0°) €	
	11776 Feb 27 07:50	0° Υ			11777 Feb 19 22:00	0°Υ	0.501.515.5
	11776 Mar 20 14:19	0° 8		evening max el	11777 Mar 05 09:01	16° Ƴ 10'14	25°13'55

retrograde	11777 Mar 17 10:55	23° Y 10'20			11778 Jan 24 02:30	0°) €	
evening set	11777 Mar 17 10:33	20° Υ 46'02			11778 Feb 15 23:02	0°Υ	
asc. node	11777 Mar 23 16:31	20° Υ 22'42		evening max el	11778 Feb 15 22:40	29° ¥ 59'06	26°20'09
min. Earth dist.	11777 Mar 27 15:34	15° Υ 53'14	0.67844 AU	retrograde	11778 Feb 28 19:29	7° Υ 16'31	20 20 0)
inferior conj	11777 Mar 28 21:30	14° Υ 15'45	1°35'15	evening set	11778 Mar 07 01:48	4° Υ 45'23	
minimum elong	11777 Mar 28 19:33	14° Y 22'07	1°34'28	asc. node	11778 Mar 10 13:51	1° Υ 13'04	
morning rise	11777 Apr 03 09:34	8° Υ 21'23	13.20	min. Earth dist.	11778 Mar 11 05:19	0° Υ 27'15	0.66760 AU
direct	11777 Apr 06 22:53	7° Υ 08'45		min. Burui Gibt.	11778 Mar 11 14:21	30°R) €	0.00,00110
morning max el	11777 Apr 14 00:17	11° Y ′01'30	19°19'17	inferior conj	11778 Mar 12 23:16	28°) 19'16	0°45'43
desc. node	11777 Apr 26 03:03	26° Ƴ 49'41		minimum elong	11778 Mar 12 22:08	28° ¥ 22'45	0°45'21
greatest brilliancy	11777 Apr 26 19:17	27° Ƴ 49'46	-0.7m	morning rise	11778 Mar 18 19:19	22°) 35'03	
· ·	11777 Apr 28 06:13	$0^{\circ}B$		direct	11778 Mar 21 21:47	21°) 40'42	
morning set	11777 May 08 10:37	15° 8 31'49		morning max el	11778 Mar 28 10:55	25° ¥ 10′59	18°31'39
C	11777 May 17 18:28	$\Pi^{\circ}0$		C	11778 Apr 01 14:44	0° Υ	
max. Earth dist.	11777 May 21 07:27	5° Ⅱ 33'15	1.45118 AU	desc. node	11778 Apr 12 23:44	16° Ƴ 52'27	
	-			morning set	11778 Apr 18 05:12	25° Ƴ 06′01	
superior conj	11777 May 24 21:06	11° II 11'53	-2°13'20	-	11778 Apr 21 07:52	0° 8	
minimum elong	11777 May 24 20:45	11° Ⅱ 10′27	2°14'02				
	11777 Jun 05 12:03	0ංම		superior conj	11778 May 04 05:27	20° 8 12'34	-2°01'58
evening rise	11777 Jun 08 05:20	4° 5 29'35		minimum elong	11778 May 03 21:56	19° 8 43'11	2°02'05
asc. node	11777 Jun 19 14:30	23° © 01'50		max. Earth dist.	11778 May 04 02:09	19° 8 59'41	1.45712 AU
	11777 Jun 24 12:48	$0^{\circ}\Omega$			11778 May 10 11:35	$\Pi^{\circ}0$	
evening max el	11777 Jun 27 04:42	3° Ω 00′37	18°17'11	evening rise	11778 May 19 22:00	14° ∏ 52′29	
retrograde	11777 Jul 03 13:37	6° Ω 23′50		greatest brilliancy	11778 May 28 13:59	28° Ⅲ 34′26	-0.8m
evening set	11777 Jul 06 13:06	5° Ω 35'37			11778 May 29 11:56	0 \circ \odot	
inferior conj	11777 Jul 12 11:13	0° Ω 10'35	2°41'18	asc. node	11778 Jun 06 11:30	11° 5 643'07	
minimum elong	11777 Jul 12 13:32	0° Ω 03′56	2°40'06	evening max el	11778 Jun 10 16:13	16° © 39'42	18°48'00
	11777 Jul 12 14:54	30° ℝ ∽		retrograde	11778 Jun 17 07:46	20° © 18'29	
min. Earth dist.	11777 Jul 14 21:36	27° © 24'04	0.64098 AU	evening set	11778 Jun 20 15:41	19° © 14'46	
morning rise	11777 Jul 18 12:33	23° © 53'15		inferior conj	11778 Jun 26 05:28	13° © 33'57	3°05'53
desc. node	11777 Jul 23 02:34	21° © 30'15		minimum elong	11778 Jun 26 06:50	13° © 29'40	3°04'56
direct	11777 Jul 25 04:01	21° © 15'41		min. Earth dist.	11778 Jun 28 01:01	11° © 18'17	0.65909 AU
morning max el	11777 Aug 07 22:30	29° © 16'48	27°34'53	morning rise	11778 Jul 01 21:13	7° © 12'07	
	11777 Aug 08 15:24	0 $^{\circ}\Omega$		direct	11778 Jul 08 06:24	4° 5 29'34	
	11777 Aug 30 09:59	0° m)		desc. node	11778 Jul 09 23:47	4° 5 540'04	
morning set	11777 Sep 11 23:57	22° m 51'57		morning max el	11778 Jul 21 09:16	12° © 16'38	26°41'36
asc. node	11777 Sep 15 15:14	0° ≙ 13'50			11778 Aug 04 14:05	0 ° Ω	
	11777 Sep 15 12:33	0∘ 亚			11778 Aug 23 00:49	0° m)	
max. Earth dist.	11777 Sep 16 18:26	2° ≏ 35'22	1.32772 AU	morning set	11778 Aug 26 05:27	5° m 56'25	
	11555 0 00 00 01	00 0 00155	004444	max. Earth dist.	11778 Aug 30 07:49	13° m 54'35	1.34249 AU
superior conj	11777 Sep 20 00:31	9° £ 29'55	0°41'43	asc. node	11778 Sep 02 11:54	20° m 19'24	
minimum elong	11777 Sep 19 22:41	9° £ 20'01	0°41'25		11770 0 04 00 14	000m-07114	0014120
evening rise	11777 Sep 27 00:12	24° £ 35′50		superior conj	11778 Sep 04 00:14	23° Mp 27'14	0°14'38
	11777 Sep 29 13:48 11777 Oct 18 07:22	0° ™ 0° ৴		minimum elong	11778 Sep 03 23:28 11778 Sep 03 20:49	23° M) 23'14	0°14'19
desc. node	11777 Oct 18 07.22 11777 Oct 18 23:32	0° х ¹41'06		behind sun begin behind sun end	11778 Sep 03 20.49 11778 Sep 04 02:07	23° Mp 09'27 23° Mp 37'02	
evening max el	11777 Oct 18 23:32 11777 Oct 19 07:29	1° × ⁷ 00'39	22°50'48	belling sun eng	11778 Sep 04 02:07 11778 Sep 07 03:04	0° ⊽	
retrograde	11777 Nov 01 11:18	7° × ⁷ 33'08	22 30 48	evening rise	11778 Sep 11 10:00	0 = 9° ჲ 03'28	
evening set	11777 Nov 05 07:58	7° × 700'40		evening rise	11778 Sep 11 10:00 11778 Sep 22 09:58	0° M	
min. Earth dist.	11777 Nov 12 16:10	3° ∡ 140′27	0.55007 AU	evening max el	11778 Oct 01 00:03	11°M 16'14	21°14'49
inferior conj	11777 Nov 12 10:10	2° × ⁷ 58'37		desc. node	11778 Oct 05 20:53	15°M07'34	21 11 17
minimum elong	11777 Nov 13 19:15	3° ∡ 701'45		retrograde	11778 Oct 12 22:54	17°M12'29	
g	11777 Nov 19 17:21	30°RML	2 .02.	evening set	11778 Oct 15 12:40	16°M57'06	
morning rise	11777 Nov 22 08:05	29°ML09'48		inferior conj	11778 Oct 24 13:33	13°M02'22	-5°05'17
direct	11777 Nov 25 10:38	28°M47'24		minimum elong	11778 Oct 24 04:23	13°M15'16	5°02'51
	11777 Nov 30 20:16	0° ∡ 7		min. Earth dist.	11778 Oct 24 22:49	12° M 49'21	0.54569 AU
morning max el	11777 Dec 06 19:31	4° ⋌ ¹11'13	20°57'04	morning rise	11778 Nov 01 20:45	9° ™ 11'48	
asc. node	11777 Dec 12 15:54	11° х 03'44		direct	11778 Nov 05 18:53	8°M38'44	
	11777 Dec 23 12:58	0°ಕ		morning max el	11778 Nov 18 13:05	14°M45'21	22°37'00
morning set	11777 Dec 26 06:31	5° ප 35'07		asc. node	11778 Nov 29 12:52	28°M59'09	
Ç					11778 Nov 30 03:36	0° ∡ ¹	
superior conj	11778 Jan 02 15:19	20° ප 56'12	1°25'18	morning set	11778 Dec 10 17:30	20° ∡ °22'04	
minimum elong	11778 Jan 02 17:36	21° පි 07'53	1°25'51	-	11778 Dec 15 05:24	ರ°0	
-	11778 Jan 07 03:19	0° ≈					
max. Earth dist.	11778 Jan 07 13:03	0° ≈ 47'45	1.35636 AU	superior conj	11778 Dec 17 17:37	5° る 22'38	1°35'28
evening rise	11778 Jan 11 12:39	8° ≈ 24'26		minimum elong	11778 Dec 17 18:50	5° る 29'07	1°36'11
desc. node	11778 Jan 14 22:16	14° ≈ 36′14		max. Earth dist.	11778 Dec 21 05:04	12° る 41'03	1.33881 AU

evening rise	11778 Dec 25 18:18 11778 Dec 30 01:35	21°る50'37 0°≈		superior conj minimum elong	11779 Dec 02 01:13 11779 Dec 02 01:17	20° ₹ 02'03 20° ₹ 02'24	1°39'02 1°39'47
desc. node	11779 Jan 01 19:07 11779 Jan 17 21:48	4°≈54'54 0°) €		max. Earth dist.	11779 Dec 04 04:51 11779 Dec 06 16:24	24° メ *42'29 0°る	1.32554 AU
evening max el	11779 Jan 29 12:14	13°) 36′14	27°08'12	evening rise	11779 Dec 09 10:56	5° る 44'17	
retrograde	11779 Feb 11 22:03	21° ₩ 00'19		desc. node	11779 Dec 19 16:04	24° る 56'12	
evening set	11779 Feb 18 14:01	18° ¥ 27′30			11779 Dec 22 16:23	0° ≈	
min. Earth dist.	11779 Feb 22 12:21	14°) 42′51	0.65294 AU	evening max el	11780 Jan 12 00:13	26° ≈ 49'48	27°31'00
inferior conj	11779 Feb 24 18:14	12° 米 11′55	-0°13'51		11780 Jan 15 16:25	0°)	
minimum elong	11779 Feb 24 18:37	12° ∺ 10'49	0°13'23	retrograde	11780 Jan 25 17:56	4°) 12′52	
transit middle	11779 Feb 24 18:37	12° ∺ 10'49	0°13'23	evening set	11780 Feb 01 16:11	1° ¥ 45′17	
transit begin	11779 Feb 24 16:58	12° ∺ 15′27			11780 Feb 03 20:40	30° R ≈	
transit end	11779 Feb 24 20:16	12° ∺ 06′11		min. Earth dist.	11780 Feb 05 10:42	28° ≈ 31′00	0.63496 AU
asc. node	11779 Feb 25 11:11	11°) €24'38		inferior conj	11780 Feb 08 03:40	25° ≈ 47'01	-1°22'58
morning rise	11779 Mar 03 00:43	6° ∺ 40′18		minimum elong	11780 Feb 08 06:21	25° ≈ 40′13	1°21'21
direct	11779 Mar 05 17:46	6° ∺ 01'04		asc. node	11780 Feb 12 08:32	21° ≈ 58′30	
morning max el	11779 Mar 12 02:31	9° ∺ 21′03	18°00'54	morning rise	11780 Feb 14 22:45	20° ≈ 30'45	
	11779 Mar 26 11:09	0° Υ		direct	11780 Feb 17 08:02	20° ≈ 03'04	
morning set	11779 Mar 30 04:21	6° Ƴ 05'27		morning max el	11780 Feb 23 20:13	23° ≈ 23'44	17°47'21
desc. node	11779 Mar 30 20:24	7° Ƴ 11'14			11780 Feb 29 03:05	0° ∀	
				morning set	11780 Mar 11 06:11	18° ∺ 21'38	
superior conj	11779 Apr 13 15:41	29° Y 25′20		desc. node	11780 Mar 16 17:02	27°) 40'46	
minimum elong	11779 Apr 13 06:32	28° Ƴ 49'10	1°31'35		11780 Mar 18 02:01	0° Y	
	11779 Apr 14 00:28	0° 8					
max. Earth dist.	11779 Apr 16 22:33	4° 8 35'38	1.45551 AU	superior conj	11780 Mar 23 19:50	9° Ƴ 31'41	
evening rise	11779 Apr 29 18:06	24° 8 29'26		minimum elong	11780 Mar 23 14:22	9° Υ ′09'21	0°51'35
	11779 May 03 08:04	Π °0		max. Earth dist.	11780 Mar 29 17:12	19° Y ′01′30	1.44665 AU
greatest brilliancy	11779 May 13 06:01	15° Ⅱ 01'06	-0.7m		11780 Apr 05 17:09	0°8	
asc. node	11779 May 24 08:36	29° Ⅱ 46′04		evening rise	11780 Apr 08 05:25	3° 8 52'12	
	11779 May 24 13:55	0_{\circ} වෙ			11780 Apr 25 19:33	0°Щ	
evening max el	11779 May 24 23:13	0° © 23'46	19°35'22	evening max el	11780 May 07 00:32	14° Ⅱ 08'49	20°37'25
retrograde	11779 Jun 01 05:32	4° © 30'24		asc. node	11780 May 10 05:48	16° Ⅱ 57'47	
evening set	11779 Jun 04 22:21	3°510'35		retrograde	11780 May 15 04:27	18° Ⅱ 53'13	
	11779 Jun 08 03:47	30°RⅡ		evening set	11780 May 19 06:53	17° Ⅱ 17'18	
inferior conj	11779 Jun 10 07:05	27° Ⅱ 15′28	3°15'13	inferior conj	11780 May 24 13:26	11° Ⅱ 09'34	3°11'55
minimum elong	11779 Jun 10 07:21	27° I 14'38	3°14'26	minimum elong	11780 May 24 12:40	11° I I12'15	3°11'09
min. Earth dist.	11779 Jun 11 11:52	25° Ⅱ 39'58	0.67300 AU	min. Earth dist.	11780 May 25 04:15	10° Ⅱ 18'31	0.68234 AU
morning rise	11779 Jun 15 15:57	20° Ⅱ 53'46		morning rise	11780 May 29 18:11	4° Ⅱ 51'00	
direct	11779 Jun 21 15:06	18° Ⅱ 16'14		direct	11780 Jun 04 05:10	2° Ⅱ 26'10	
desc. node	11779 Jun 26 20:56	19° ∏ 53'21	25026125	desc. node	11780 Jun 12 18:00	6°∏40'49	22050111
morning max el	11779 Jul 03 19:48	25° Ⅱ 34'41	25°26'27	morning max el	11780 Jun 15 05:45	9° Ⅱ 01'59	23°59'11
	11779 Jul 07 20:40	0° ©			11780 Jul 01 17:53	0°©	
. ,	11779 Jul 29 02:21	0°Ω		morning set	11780 Jul 20 15:01	29°545'34	
morning set	11779 Aug 08 20:03	18° Ω 18'23	1 26170 AII	may Earth dist	11780 Jul 20 18:23	0°Ω 6°Ω1925	1 20/16 ATT
max. Earth dist.	11779 Aug 12 11:33	25° Ω 01'27 0° m	1.36179 AU	max. Earth dist.	11780 Jul 24 09:08	0.9(18.33	1.38416 AU
	11779 Aug 15 02:14	V III		superior conj	11780 Jul 31 17:23	19° Ω 48'06	0°50'15
superior conj	11779 Aug 18 15:02	6° m 56'19	0°16'33	minimum elong	11780 Jul 31 17.23	20°Ω04'32	
minimum elong	11779 Aug 18 15:02 11779 Aug 18 16:04	7° Mp 01'30		minimum ciong	11780 Aug 05 23:59	0°m)	0 30 13
asc. node	11779 Aug 10 10:04 11779 Aug 20 08:36	10° m) 24'56	0 10 43	asc. node	11780 Aug 05 25:39 11780 Aug 06 05:20	ران 0° الله 26'12	
evening rise	11779 Aug 26 16:13	23° m) 18'39		evening rise	11780 Aug 09 16:09	7° m) 13'43	
evening rise	11779 Aug 30 00:06	0° ರ		evening rise	11780 Aug 22 16:48	0∘ ت	
evening max el	11779 Sep 13 05:35	0 — 22° ≏ 10'57	19°55'45	evening max el	11780 Aug 26 00:43	ა _ 3° ჲ 53'25	18°57'58
desc. node	11779 Sep 13 03:35	27° £ 17'36	1, 55 15	retrograde	11780 Sep 03 18:06	8° ≏ 14'59	10 37 30
retrograde	11779 Sep 22 16:10 11779 Sep 23 13:27	27° ⊆ 17'30		evening set	11780 Sep 05 14:59	8° ⊆ 03'45	
evening set	11779 Sep 25 13:27 11779 Sep 25 11:29	27° ⊆ 09'32		desc. node	11780 Sep 08 15:41	7° Ω 02'14	
inferior conj	11779 Oct 04 09:50	23° ⊆ 08'57	-3°31'53	inferior conj	11780 Sep 13 22:43	3° Ω 47'27	-1°39'40
minimum elong	11779 Oct 04 00:49	23° <u>•</u> 22'39		minimum elong	11780 Sep 13 18:27	3° ≏ 54'55	
min. Earth dist.	11779 Oct 04 00:49	21° ⊆ 59'11	0.55072 AU	min. Earth dist.	11780 Sep 16 21:21	1° ≏ 44'19	0.56431 AU
morning rise	11779 Oct 10 07:44 11779 Oct 12 12:47	18° ♀ 55'23			11780 Sep 19 16:19	30°RM)	
direct	11779 Oct 12 12:47 11779 Oct 17 06:44	18° ⊆ 06'11		morning rise	11780 Sep 17 10:17	28° m) 57'35	
morning max el	11779 Oct 31 00:09	24° £ 52'09	24°25'07	direct	11780 Sep 27 07:44	27° m/ 44'50	
	11779 Nov 04 18:14	0° M	==		11780 Oct 04 23:31	ე∘ <u>ი</u>	
asc. node	11779 Nov 16 09:46	17°MJ36'45		morning max el	11780 Oct 04 23:31 11780 Oct 11 12:44	ა _ 5° ჲ 03'10	26°04'09
	11779 Nov 22 18:47	0° ∡ 7			11780 Oct 29 14:44	0° ™	
morning set	11779 Nov 25 05:21	5° ⊀ 108'22		asc. node	11780 Nov 02 06:37	6°M45'41	
	00.21			morning set	11780 Nov 08 16:24	19°M49'12	
				<i>5</i> /			

	11780 Nov 13 08:05	0° ∡ ¹		morning max el	11781 Sep 23 07:34	15° m 44'43	27°17'12
					11781 Oct 04 22:21	0∘ ⊽	
superior conj	11780 Nov 15 11:54	4° ∡ ¹47'45 −	1°36'30	asc. node	11781 Oct 20 03:23	26° ≙ 17'09	
minimum elong	11780 Nov 15 10:55	4° ⋌ ¹42'17 –	1°37'08		11781 Oct 21 23:18	0° M	
max. Earth dist.	11780 Nov 16 10:40	6° ₹ '53'55	1.31701 AU	morning set	11781 Oct 24 00:52	4° M ₁9'08	
evening rise	11780 Nov 22 11:39	19° ∡ ′58'14			115010 . 20 22 20	100 W 20150	1000110
	11780 Nov 27 10:57	0°る		superior conj	11781 Oct 30 23:38	19°M32'58	1°28'12
desc. node	11780 Dec 05 13:06	14° පි 32'56		minimum elong	11781 Oct 30 21:51	19°M23'01	1°28'35
	11780 Dec 15 23:27	0° ≈	25020115	max. Earth dist.	11781 Oct 30 19:27	19°M09'37	1.31348 AU
evening max el	11780 Dec 24 08:37	9°≈28'09	27°22'45		11781 Nov 04 16:49	0° ⊀ ⁷	
retrograde evening set	11781 Jan 07 06:22 11781 Jan 14 05:20	16°≈44'59 14°≈31'26		evening rise	11781 Nov 06 17:56	4°♂25'13 0°る	
min. Earth dist.	11781 Jan 14 05:20 11781 Jan 17 23:04	14°≈31'26 11°≈41'08	0.61454 AU	desc. node	11781 Nov 20 04:40 11781 Nov 22 10:13	3°る34'31	
inferior conj	11781 Jan 21 00:28	8°≈57'03		evening max el	11781 Nov 22 10:13	21° る 19'29	26°40'09
minimum elong	11781 Jan 21 05:58	8°≈44'44	2°36'42	retrograde	11781 Dec 00 10:30	21 31929 28° 3 27'16	20 40 09
morning rise	11781 Jan 28 09:23	3°≈59'01	2 30 42	evening set	11781 Dec 27 01:25	26° る 36'50	
asc. node	11781 Jan 29 05:50	3°≈46'30		min. Earth dist.	11781 Dec 27 01:23	20 さ 5050	0.59316 AU
direct	11781 Jan 30 13:15	3°≈39'07		inferior conj	11782 Jan 03 04:59	21° る 31'32	
morning max el	11781 Feb 06 12:47	7°≈10'29	17°51'41	minimum elong	11782 Jan 03 12:53	21° る 16'04	
morning max or	11781 Feb 21 07:19	0° ∀	1, 31 11	morning rise	11782 Jan 11 03:11	16° る 54'17	3 3 1 13
morning set	11781 Feb 22 04:40	1° ¥ 36'16		direct	11782 Jan 13 05:16	16° る 38'34	
desc. node	11781 Mar 03 13:39	18° ¥ 17'20		asc. node	11782 Jan 16 03:06	17° る 10'38	
				morning max el	11782 Jan 21 00:32		18°15'20
superior conj	11781 Mar 05 00:30	20°) 47'44	-0°11'12		11782 Jan 28 03:18	0° ≈	
minimum elong	11781 Mar 04 23:30	20°) 43′25		morning set	11782 Feb 05 17:44	15° ≈ 30'38	
behind sun begin	11781 Mar 04 17:14	20° ¥ 16′28		•	11782 Feb 13 11:07	0° ∀	
behind sun end	11781 Mar 05 05:46	21° ¥ 10′20					
	11781 Mar 10 11:36	0° Y		superior conj	11782 Feb 15 04:10	3° ∺ 07'19	0°25'18
max. Earth dist.	11781 Mar 12 07:58	3° Y ′02'17	1.43160 AU	minimum elong	11782 Feb 15 06:01	3°) 15′42	0°25'26
evening rise	11781 Mar 18 23:41	13° Y '40'35		desc. node	11782 Feb 18 10:17	8°) 56'40	
	11781 Mar 29 17:16	$0^{\circ}B$		max. Earth dist.	11782 Feb 22 18:19	16° ¥ 26'46	1.41200 AU
evening max el	11781 Apr 19 20:26	27° 8 55'07	21°50'45	evening rise	11782 Feb 27 11:48	24°) 18'41	
	11781 Apr 22 01:57	Π °0			11782 Mar 03 00:47	0° Y	
asc. node	11781 Apr 27 03:04	3° Ⅱ 03'28			11782 Mar 23 14:30	$0^{\circ}S$	
retrograde	11781 Apr 29 02:34	3° Ⅲ 22′08		evening max el	11782 Apr 02 12:22	11° 8 43'20	23°10'31
evening set	11781 May 03 15:32	1° Ⅱ 30'42		retrograde	11782 Apr 12 22:16	17° 8 51'56	
	11781 May 05 05:10	30° ₹ 8		asc. node	11782 Apr 14 00:24	17° 8 46'21	
inferior conj	11781 May 08 22:16	25° 8 12'32		evening set	11782 Apr 17 22:38	15° 8 45'59	
minimum elong	11781 May 08 20:41	25° 8 18'03		inferior conj	11782 Apr 23 07:35	9° 8 20'13	
min. Earth dist.	11781 May 08 23:59	25° 8 06'32	0.68706 AU	minimum elong	11782 Apr 23 05:30	9° 8 27'22	2°32'24
morning rise	11781 May 14 01:39	18° 8 59'01		min. Earth dist.	11782 Apr 22 20:47	9° 8 57'30	0.68720 AU
direct	11781 May 18 23:35	16° 8 52'16		morning rise	11782 Apr 28 12:16	3° 8 13'13	
morning max el	11781 May 28 17:00	22° 8 36'26	22°29'33	direct	11782 May 02 21:05	1° 8 27'23	21005155
desc. node	11781 May 30 14:58	24° 8 37'43		morning max el	11782 May 11 08:53	6° 8 20'26	21 05 55
	11781 Jun 04 03:32	0° ©		desc. node	11782 May 17 11:49	13° ႘ 24'50 0° Ⅱ	
morning set	11781 Jun 25 01:29 11781 Jul 01 09:36	10°ഇ06'18		morning set	11782 May 29 09:29 11782 Jun 11 02:35	0°Щ 19°Щ18'58	
max. Earth dist.	11781 Jul 06 07:24	18°9515'11	1.40725 AU	morning set	11782 Jun 17 19:24	0.20 13 TI 19 29	
max. Latin dist.	11781 Jul 13 01:46	0°Ω	1.40/23 AO	max. Earth dist.	11782 Jun 18 11:52		1.42821 AU
	11701341 13 01.40	0 00		max. Earth dist.	11/02 Juli 10 11.32	1 30030	1.42021710
superior conj	11781 Jul 14 03:08	1° Ω 53'28	-1°23'46	superior conj	11782 Jun 25 15:48	13° © 02'31	-1°52'39
minimum elong	11781 Jul 14 09:00	2° Ω 19'50		minimum elong	11782 Jun 25 22:30	13° © 31'01	
evening rise	11781 Jul 24 06:32	20° Ω 40'25			11782 Jul 05 08:35	$0^{\circ}\Omega$	
asc. node	11781 Jul 24 02:07	20° Ω 19'35		evening rise	11782 Jul 07 07:09	3° Ω 28'25	
	11781 Jul 29 07:01	0° m		asc. node	11782 Jul 10 22:58	10° Ω 00'53	
evening max el	11781 Aug 09 06:13	16° Mp 18'27	18°21'25	evening max el	11782 Jul 23 17:53	29° Ω 16′04	18°04'54
retrograde	11781 Aug 16 17:37	20° m/04'32			11782 Jul 24 12:37	0° m)	
evening set	11781 Aug 18 20:30	19° m 47'07		retrograde	11782 Jul 30 10:40	2° m) 41'51	
inferior conj	11781 Aug 26 09:13	15° Mp 10'26	0°02'59	evening set	11782 Aug 01 21:25	2° m 14'29	
minimum elong	11781 Aug 26 09:19	15° m 10'14	0°02'41		11782 Aug 05 15:12	30° R Ω	
transit middle	11781 Aug 26 09:19	15° m 10'14	0°02'41	inferior conj	11782 Aug 08 16:18	27° Ω 17'19	1°23'00
transit begin	11781 Aug 26 05:51	15° m 17'20		minimum elong	11782 Aug 08 18:35	27° Ω 11'55	1°21'44
transit end	11781 Aug 26 12:47	15° m 03'08		min. Earth dist.	11782 Aug 11 21:04	24° Ω 16′16	0.60662 AU
desc. node	11781 Aug 26 13:06	15° m 02'27		desc. node	11782 Aug 13 10:29	22° Ω 55'50	
min. Earth dist.	11781 Aug 29 17:13	12° m 27'41	0.58406 AU	morning rise	11782 Aug 15 12:55	21° Ω 23'31	
morning rise	11781 Sep 02 18:36	9° m 44'32		direct	11782 Aug 22 03:00	19° Ω 15'06	
direct	11781 Sep 08 23:18	8° Mp 03'22		morning max el	11782 Sep 05 09:39	27° Ω 10′58	27°54'02

	11782 Sep 08 02:01	0° m)		direct	11783 Aug 04 16:40	1° Ω 19'09	
	11782 Sep 08 02:01 11782 Sep 28 14:43	0∘ ত الأال		morning max el	11783 Aug 04 10:40 11783 Aug 18 17:20	9° Ω 21'24	27°52'14
asc. node	11782 Oct 07 00:06	0 — 16° ≏ 04'45		morning max ci	11783 Sep 03 18:26	0° m)	27 32 14
morning set	11782 Oct 07 00:00	18° ₾ 33'39			11783 Sep 30 16:20	0∘ ⊽	
morning sec	11782 Oct 13 12:55	0°M		morning set	11783 Sep 22 02:29	ა — 2° ჲ 26'30	
max. Earth dist.	11782 Oct 14 03:35	1°M20'46	1.31501 AU	asc. node	11783 Sep 23 20:46	6° ₽ 02'38	
man. Darur alov.	11702 000 11 03.30	1 110-20 10	1.01001110	max. Earth dist.	11783 Sep 27 07:09		1.32163 AU
superior conj	11782 Oct 15 10:36	4°ML12'24	1°14'22	man. Barur diot.	11703 Sep 27 07.03	15 —1057	1.52105110
minimum elong	11782 Oct 15 08:24	4°ML00'08	1°14'25	superior conj	11783 Sep 29 18:54	18° ≏ 39'49	0°55'08
evening rise	11782 Oct 22 03:41	18°M59'36		minimum elong	11783 Sep 29 16:45	18° ≏ 28'06	0°54'56
<i>8</i> 11	11782 Oct 27 11:12	0° ∡ ⊓			11783 Oct 04 23:09	0° M	
desc. node	11782 Nov 09 07:25	21° ∡ ¹47'18		evening rise	11783 Oct 06 14:56	3°MJ35'14	
	11782 Nov 15 22:05	ರ°0		Č	11783 Oct 20 15:59	0° ∡ ¹	
evening max el	11782 Nov 18 04:49	2° る 18'34	25°25'24	desc. node	11783 Oct 27 04:41	8° ∡ ¹52'14	
retrograde	11782 Dec 02 01:29	9° ට 16'50		evening max el	11783 Oct 30 15:53	12° ∡ ³34'36	23°49'06
evening set	11782 Dec 07 23:55	7° る 56'27		retrograde	11783 Nov 13 05:01	19° ∡ ¹20'22	
min. Earth dist.	11782 Dec 12 17:01	5° る 17'32	0.57293 AU	evening set	11783 Nov 17 22:09	18° ∡ ³31'52	
inferior conj	11782 Dec 15 13:57	3° ප 21'01	-5°07'07	min. Earth dist.	11783 Nov 24 02:19	15° ∡ ³31'59	0.55655 AU
minimum elong	11782 Dec 15 21:47	3° る 07'44	5°04'44	inferior conj	11783 Nov 26 02:21	14° ∡ °20′10	-5°47'45
	11782 Dec 21 05:53	30°R ✓		minimum elong	11783 Nov 26 05:05	14° ∡ 16′04	5°46'51
morning rise	11782 Dec 23 22:00	29° ₰ ¹06'09		morning rise	11783 Dec 04 13:56	10° ∡ ¹25′07	
direct	11782 Dec 26 04:00	28° ⋌ ¹50'59		direct	11783 Dec 07 07:00	10° ∡ °06'41	
	11782 Dec 30 19:24	0°ಕ		morning max el	11783 Dec 17 18:09	15° ∡ 05'18	20°08'03
asc. node	11783 Jan 03 00:14	2° る 09'47		asc. node	11783 Dec 20 21:17	18° ∡ °30′08	
morning max el	11783 Jan 04 03:31	3° る 11'44	19°00'14		11783 Dec 28 11:11	0°ප	
morning set	11783 Jan 20 16:49	29° る 51'18		morning set	11784 Jan 04 22:28	14° る 28'00	
	11783 Jan 20 18:35	0° ≈					
				superior conj	11784 Jan 12 14:33	0° ≈ 07'40	1°16'16
superior conj	11783 Jan 29 02:25	16° ≈ 18′20	0°54'38	minimum elong	11784 Jan 12 17:16	0° ≈ 21'17	1°16'40
minimum elong	11783 Jan 29 05:19	16° ≈ 32′12	0°54'49		11784 Jan 12 13:02	0° ≈	
max. Earth dist.	11783 Feb 05 01:19	29° ≈ 10′21	1.38999 AU	max. Earth dist.	11784 Jan 18 08:12		1.36799 AU
desc. node	11783 Feb 05 06:58	29° ≈ 35'29		evening rise	11784 Jan 22 02:34	18° ≈ 17'12	
	11783 Feb 05 12:28	0° ∀		desc. node	11784 Jan 23 03:42	20°≈10′08	
evening rise	11783 Feb 08 21:15	5° ¥ 52′29			11784 Jan 28 20:28	0° ∀	
	11783 Feb 24 01:44	0° Υ			11784 Feb 18 07:32	0° Υ	
evening max el	11783 Mar 16 02:13	25° Y '33'47	24°30'30	evening max el	11784 Feb 26 15:33	9° Y ′24′22	25°43'49
	11783 Mar 21 08:24	0°8		retrograde	11784 Mar 10 02:00	16° ℃ 33'17	
retrograde	11783 Mar 27 14:22	2° 8 17'30		evening set	11784 Mar 16 02:05	14°Υ05'12	
asc. node	11783 Mar 31 21:45	0° 8 53'55		asc. node	11784 Mar 17 19:05	12° Υ 28'06	0.67422.444
evening set	11783 Apr 02 02:41	29° Y 58'57 30° ₹Y		min. Earth dist.	11784 Mar 20 08:55	9° Y 27'35 7° Y 36'03	0.67432 AU 1°15'27
i. Dardh diad	11783 Apr 02 02:11 11783 Apr 06 16:27	30° ₹ 1 24° Y 46'09	0.68289 AU	inferior conj	11784 Mar 21 20:04	7° Υ 41'25	1°13′27 1°14'48
min. Earth dist. inferior conj	1	23° Y 29'09	0.68289 AU 1°59'16	minimum elong morning rise	11784 Mar 21 18:23 11784 Mar 27 11:15	1° Y 46'04	1-14-48
minimum elong	11783 Apr 07 15:28 11783 Apr 07 13:20	23° Υ 36'19	1°58'22	direct	11784 Mar 30 19:46	0° Υ 41'39	
morning rise	11783 Apr 13 00:07	17° Υ 29'58	1 36 22	morning max el	11784 Apr 06 15:00	4° Υ 23'07	18°57'04
direct	11783 Apr 16 20:19	16° Υ 05'35		greatest brilliancy	11784 Apr 20 03:52	22°Υ33'50	-0.8m
morning max el	11783 Apr 10 20:19	20° Υ 16'24	19°54'00	desc. node	11784 Apr 20 05:18	22° Υ 39'15	-0.0111
morning max cr	11783 May 02 08:11	0°8	17 54 00	dese. Hode	11784 Apr 25 00:15	0°8	
desc. node	11783 May 04 08:35	2° 8 48'31		morning set	11784 Apr 29 09:30	6° 8 47'31	
morning set	11783 May 21 03:23	27° 8 52'01		max. Earth dist.	11784 May 13 16:15		1.45455 AU
morning sec	11783 May 22 12:36	0°II		man. Bartii dige.	11784 May 14 06:58	0°II	1.10 100 110
max. Earth dist.	11783 May 31 23:28		1.44456 AU			-	
				superior conj	11784 May 15 19:43	2° Ⅱ 24'18	-2°11'02
superior conj	11783 Jun 06 04:19	23° Ⅱ 08'54	-2°10'37	minimum elong	11784 May 15 16:01	2° Ⅱ 09'47	
minimum elong	11783 Jun 06 07:54	23° II 23'23		evening rise	11784 May 30 19:44	26° Ⅲ 22'52	
Č	11783 Jun 10 08:47	0° ©		Č	11784 Jun 02 01:12	0° ©	
evening rise	11783 Jun 19 12:59	15° © 25'20		asc. node	11784 Jun 13 16:53	18° © 23'17	
asc. node	11783 Jun 27 19:53	29° © 24'11		evening max el	11784 Jun 19 20:57	26° © 09'02	18°28'08
	11783 Jun 28 04:41	$0^{\circ}\Omega$		retrograde	11784 Jun 26 07:47	29°537'41	
evening max el	11783 Jul 07 07:50	12° £ 35′26	18°07'24	evening set	11784 Jun 29 10:44	28°9643'05	
retrograde	11783 Jul 13 16:52	15° Ω 55'48		inferior conj	11784 Jul 05 04:51	23°510'59	2°53'46
evening set	11783 Jul 16 11:39	15° Ω 15'45		minimum elong	11784 Jul 05 06:48	23°505'08	2°52'41
inferior conj	11783 Jul 22 16:12	10° Ω 00'04	2°18'54	min. Earth dist.	11784 Jul 07 08:57	20° © 36'02	0.64908 AU
minimum elong	11783 Jul 22 18:49	9° Ω 52'59	2°17'33	morning rise	11784 Jul 11 01:46	16°950'42	
min. Earth dist.	11783 Jul 25 10:17	7° Ω 02'51	0.62900 AU	desc. node	11784 Jul 17 05:04	14°9510'26	
morning rise	11783 Jul 29 00:06	3° Ω 48'32		direct	11784 Jul 17 14:56	14° © 09'51	
desc. node	11783 Jul 31 07:48	2° Ω 22′17		morning max el	11784 Jul 31 03:57	22° 5 07'21	27°15'34

	11794 Aug 07 01:27	$0^{\circ}\Omega$		desc. node	11785 Jul 04 02:15	28° ∏ 15'32	
	11784 Aug 07 01:37	oor o°mp		desc. node	11785 Jul 04 02:13	28 п 13 32	
morning set	11784 Aug 26 23:57 11784 Sep 04 14:48	15° Mp 51'12		morning max el	11785 Jul 07 10:31	5°9515'48	26011141
max. Earth dist.	11784 Sep 04 14.48 11784 Sep 09 02:24	24° m/49'08	1.33339 AU	morning max er	11785 Aug 01 14:25	0°Ω	20 1141
	•		1.33339 AU	marning act	•		
asc. node	11784 Sep 09 17:27	26° Mp 06'33 0° <u>₽</u>		morning set	11785 Aug 18 14:31	28° № 38'57 0° ™	
	11784 Sep 11 14:16	0-32		E4b di-4	11785 Aug 19 07:53	קוויט 5° אר 59'00	1 25012 ATT
superior conj	11784 Sep 12 22:26	2° - 49'52	0°30'48	max. Earth dist.	11785 Aug 22 11:07	3 1143900	1.35012 AU
minimum elong	11784 Sep 12 22:28 11784 Sep 12 20:58	2° - 49'32 2° - 42'01	0°30'48	superior conj	11785 Aug 27 18:45	16° m 35'59	0°01'52
_	*	2 = 42 01 18° £ 07'09	0 30 28		•	-•	0°01'35
evening rise	11784 Sep 20 01:50	0°M		minimum elong behind sun begin	11785 Aug 27 18:40	16° Mp 35'31 16° Mp 05'02	0 01 33
avanina may al	11784 Sep 25 21:34 11784 Oct 11 03:37	22°M39'22	22°08'23	behind sun begin	11785 Aug 27 12:41	-•	
evening max el desc. node		24°M24'56	22 08 23	asc. node	11785 Aug 28 00:38	17° Mp 06'04	
	11784 Oct 13 02:01			asc. node	11785 Aug 27 14:09	16° Mp 12'30 0° <u>₽</u>	
retrograde	11784 Oct 23 21:15	28°M59'13			11785 Sep 03 05:34	0° ± 29'54	
evening set	11784 Oct 27 03:17	28°M35'44	5027154	evening rise	11785 Sep 04 10:24		
inferior conj	11784 Nov 04 22:48	24°M37'51			11785 Sep 20 05:02	0°M	20020151
minimum elong	11784 Nov 04 17:01	24°M45'58	5°36'38	evening max el	11785 Sep 23 01:24	3°M10'02	20 38 31
min. Earth dist.	11784 Nov 04 09:14	24°M56'55	0.54706 AU	desc. node	11785 Sep 29 23:24	7°M56'41	
morning rise	11784 Nov 13 08:08	20°M50'47		retrograde	11785 Oct 04 08:33	8°M46'32	
direct	11784 Nov 16 18:28	20°M24'37	21027145	evening set	11785 Oct 06 13:17	8°M34'44	402011.4
morning max el	11784 Nov 28 18:53	26°M06'55	21°37'45	inferior conj	11785 Oct 15 15:01	4°M39'28	
	11784 Dec 02 09:37	0° ⊼ ¹		minimum elong	11785 Oct 15 05:00	4°M53'53	4°27'06
asc. node	11784 Dec 06 18:18	5° \$\bar{7}\$55'20		min. Earth dist.	11785 Oct 16 17:00	4°M02'03	0.54663 AU
morning set	11784 Dec 19 08:06	29° х 12'54		morning rise	11785 Oct 23 20:28	0°M41'06	
	11784 Dec 19 17:05	0°₹		direct	11785 Oct 28 03:02	0°M01'51	2222250
	11704 D 26 12 20	1.40-70007	1020127	morning max el	11785 Nov 10 08:46	6°M26'43	23°22'50
superior conj	11784 Dec 26 12:38	14°る23'27	1°30'27	asc. node	11785 Nov 23 15:14	24°M10'30	
minimum elong	11784 Dec 26 14:29	14°る33'09	1°31'05		11785 Nov 26 21:06	0° ∡ 7	
max. Earth dist.	11784 Dec 30 19:35	23° ⋜ 11'10	1.34835 AU	morning set	11785 Dec 03 19:42	14° ≯ 00'30	
	11785 Jan 03 06:52	0° ≈					
evening rise	11785 Jan 04 00:24	1°≈23'49		superior conj	11785 Dec 10 17:33	28° ₹ 56'55	1°37'45
desc. node	11785 Jan 09 00:30	10°≈36'02		minimum elong	11785 Dec 10 18:16	29°₺00'50	1°38'30
	11785 Jan 20 21:10	0°) {			11785 Dec 11 05:16	0°る	
evening max el	11785 Feb 08 05:02	23°) €08'44	26°43'15	max. Earth dist.	11785 Dec 13 14:51	5° る 06'48	1.33260 AU
	11785 Feb 18 05:19	0°Υ 0°Ω21107		evening rise	11785 Dec 18 11:12	15° පි 03'31	
retrograde	11785 Feb 21 08:20	0° Υ 31'07			11785 Dec 26 10:23	0°≈	
	11785 Feb 24 07:16	30° ₹ ₩		desc. node	11785 Dec 26 21:25	0°≈48'28	
evening set	11785 Feb 27 19:00	27°) 58'17	0.66175 ATT		11786 Jan 15 15:00	0°){	27021122
min. Earth dist.	11785 Mar 03 20:05		0.66175 AU	evening max el	11786 Jan 21 18:16	6°) €37'57	2/-21/23
asc. node	11785 Mar 04 16:26 11785 Mar 05 19:14	22°) 55'05 21°) 35'34	0021120	retrograde	11786 Feb 04 08:22 11786 Feb 11 03:19	14°) 02'43	
inferior conj		21° X 33'34 21° X 37'18		evening set		7°) 59'52	0.64564.411
minimum elong	11785 Mar 05 18:39 11785 Mar 11 19:28	21° 1 ₹ 3 / 18 15° 1 ₹ 56'34	0°21'36	min. Earth dist.	11786 Feb 14 23:50	5° ∺ 22'01	
morning rise				inferior conj	11786 Feb 17 10:33	5° X 2201	
direct	11785 Mar 14 17:37	15°) (09'15) 18°) (34'02)	18°16'30	minimum elong asc. node	11786 Feb 17 11:49 11786 Feb 19 13:46	3° \ 08'55	0°41'09
morning max el	11785 Mar 21 04:08	18° χ 34'02 0° Υ	18-10-30				
	11785 Mar 29 22:11	12° Υ 49'13		morning rise	11786 Feb 23 22:09	29°≈56'21	
desc. node	11785 Apr 07 01:57 11785 Apr 09 15:45	12 γ 49 13 16° γ 56'34		direct	11786 Feb 23 18:53 11786 Feb 26 11:35	30°R≈ 29°≈22'32	
morning set	•	0° 8		direct	11786 Mar 01 04:22	29 ≈ 22 32	
	11785 Apr 17 20:33	0.0			11786 Mar 04 20:57	0 X 2° ¥ 41'52	17050154
gumariar agni	11705 Amr 25 02:25	11° 8 24'07	1051115	morning max el	11786 Mar 22 02:55	28°\(\frac{4}{30}\)'38	17 32 34
superior conj minimum elong	11785 Apr 25 02:35 11785 Apr 24 17:30	10° 8 48'35		morning set	11786 Mar 23 00:18	26 χ3036 0° Υ	
max. Earth dist.	11785 Apr 26 11:28	13° 8 32'40	1.45730 AU	desc. node	11786 Mar 24 22:36	3°Υ12'58	
max. Earm dist.	11785 May 07 00:38	0°Ⅱ	1.43730 AU	desc. Hode	11/60 Iviai 24 22.30	3 1 12 30	
evening rise	11785 May 11 02:39	6° Ⅱ 22'37		superior conj	11786 Apr 04 18:57	20° Y ′55'44	1015'58
greatest brilliancy	11785 May 22 00:39	23° Ⅱ 19'37	-0.8m	minimum elong	11786 Apr 04 10:59	20°Υ23'52	
greatest offinality	11785 May 26 12:14	0°95	-0.0111	max. Earth dist.	11786 Apr 09 07:03	28° Υ '04'44	1.45263 AU
asc. node	11785 May 20 12.14 11785 May 31 13:57	6°\$49'25		max. Larm dist.	11786 Apr 10 12:22	0° 8	1.73203 AU
evening max el	11785 Jun 03 06:42	9° © 50'11	19°06'15	evening rise	11786 Apr 10 12.22 11786 Apr 20 17:05	15° 8 48'11	
retrograde	11785 Jun 10 03:48	13°539'43	17 00 13	Croning Hac	11786 Apr 30 01:27	0°Ⅱ	
evening set	11785 Jun 13 15:20	13 3 3943		greatest brilliancy	11786 May 05 15:21	8° Ⅱ 15'29	-0.6m
inferior conj	11785 Jun 19 02:36	6°\$42'27	3°11'29	evening max el	11786 May 17 11:26	23° I I34'55	20°00'13
minimum elong	11785 Jun 19 02:30	6°939'34	3°10'39	asc. node	11786 May 17 11:20 11786 May 18 11:07	23 ∏ 34 33 24° ∏ 32'05	20 00 13
min. Earth dist.	11785 Jun 20 15:54	4° © 42'42	0.66552 AU	retrograde	11786 May 25 02:11	27° I I56'21	
morning rise	11785 Jun 24 15:04	0°9519'59	5.00 <i>552 A</i> U	evening set	11786 May 28 23:00	26° ∏ 29'44	
	11785 Jun 25 00:26	0 ⊙ 1939 30°R Ⅱ		inferior conj	11786 Jun 03 06:32	20° I I29'19	3°15'12
direct	11785 Jun 30 20:21	27° Ⅱ 38'11		minimum elong	11786 Jun 03 06:19	20° I I30'00	
	-1,00 Jun 50 20.21	_, <u></u>			-1,00 Juli 05 00.17	_00000	J 112/

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min. Earth dist.	11786 Jun 04 05:20	19° Ⅱ 12'13	0.67760 AU	morning rise	11787 May 23 18:02	28° 8 11'06	
morning rise	11786 Jun 08 13:18	14° Ⅱ 08'44		direct	11787 May 28 23:35	25° 8 53'31	
direct	11786 Jun 14 07:35	11° Ⅱ 35'30			11787 Jun 06 05:00	Π \circ 0	
desc. node	11786 Jun 20 23:22	14° Ⅱ 11'45		desc. node	11787 Jun 07 20:23	1° 耳 31′26	
morning max el	11786 Jun 26 00:40	18° Ⅱ 37′03	24°50'05	morning max el	11787 Jun 08 10:47	2° Ⅱ 07'10	23°20'50
<i>S</i>	11786 Jul 05 15:04	0°ಅ			11787 Jun 29 15:05	0°ಅ	
	11786 Jul 25 16:12	0°N		morning set	11787 Jul 13 06:24	21° © 38'16	
		10°Ω38'25		•			1 20411 ATT
morning set	11786 Jul 31 21:20		1 27102 411	max. Earth dist.	11787 Jul 17 08:46	28°937'57	1.39411 AU
max. Earth dist.	11786 Aug 04 11:11	17° Ω 04'44	1.37103 AU		11787 Jul 18 03:35	0 \circ Ω	
		0					
superior conj	11786 Aug 11 04:44	29° Ω 50′06		superior conj	11787 Jul 25 00:37	12° Ω 23'36	
minimum elong	11786 Aug 11 06:45	29° Ω 59'56	0°30'44	minimum elong	11787 Jul 25 05:10	12° Ω 44'42	1°04'36
	11786 Aug 11 06:46	0° m		asc. node	11787 Aug 01 07:39	26° Ω 14'58	
asc. node	11786 Aug 14 10:53	6° Mp 16′24		evening rise	11787 Aug 03 10:38	0° m ,21′15	
evening rise	11786 Aug 19 14:16	16°Mp36′51			11787 Aug 03 06:14	0° m ∕	
	11786 Aug 26 12:36	0∘ ऌ		evening max el	11787 Aug 19 13:02	26° Mp 26'13	18°39'49
evening max el	11786 Sep 05 13:03	14° £ 25′02	19°28'36		11787 Aug 24 18:24	0∘ ट	
retrograde	11786 Sep 15 03:32	19° ≙ 12'07		retrograde	11787 Aug 27 16:15	0° £ 31'06	
evening set	11786 Sep 16 23:59	19° ♀ 02'14		evening set	11787 Aug 29 15:18	0° £ 17'40	
desc. node	11786 Sep 16 20:50	19° ⊆ 03'34		evening set	11787 Aug 30 16:30	30°R.MD	
inferior conj	11786 Sep 16 20:30 11786 Sep 25 17:09	14° ⊆ 56'08	2011/27	desc. node	11787 Aug 30 10:30 11787 Sep 03 18:15	27° m 55'02	
·	•				•	•	0052140
minimum elong	11786 Sep 25 09:55	15° £ 07'43	2°41'48	inferior conj	11787 Sep 06 15:00	25° m 52'28	
min. Earth dist.	11786 Sep 28 03:31	13° ≙ 22'42	0.55556 AU	minimum elong	11787 Sep 06 12:49	25° m 56'34	0°53'04
morning rise	11786 Oct 03 17:38	10° ≏ 28'19		min. Earth dist.	11787 Sep 09 19:13	23° m 30'36	0.57217 AU
direct	11786 Oct 08 20:14	9° £ 29'45		morning rise	11787 Sep 14 06:55	20°M/46'51	
morning max el	11786 Oct 22 19:21	16° ≏ 30'09	25°09'25	direct	11787 Sep 20 03:09	19° m 22'36	
	11786 Nov 02 17:58	0° M.		morning max el	11787 Oct 04 10:14	26° Mp 50′57	26°39'18
asc. node	11786 Nov 10 12:07	13°ML02'21			11787 Oct 07 10:56	0∘ ⊽	
morning set	11786 Nov 18 07:26	28° M 44'47			11787 Oct 27 03:41	0° M	
C	11786 Nov 18 21:26	0° ∡ ¹		asc. node	11787 Oct 28 08:56	2°M21'27	
	117001107 10 21:20	•		morning set	11787 Nov 02 17:36	13°ML21'07	
superior conj	11786 Nov 25 02:42	13° ∡ ³39′26	1°38'41	morning set	11/0/1407 02 17.30	13 1102107	
	11786 Nov 25 02:42	13° x 3920	1°39'24		11707 N 00 14.03	28°M24'52	1°33'40
minimum elong				superior conj	11787 Nov 09 14:02		
max. Earth dist.	11786 Nov 26 17:41	17° ₹ 13'23	1.32136 AU	minimum elong	11787 Nov 09 12:40	28°M17'18	1°34'12
evening rise	11786 Dec 02 07:38	29° ∡ 06'44		max. Earth dist.	11787 Nov 10 01:20	29°M27'50	1.31493 AU
	11786 Dec 02 18:00	0°ප			11787 Nov 10 07:07	0° ∡ ¹	
desc. node	11786 Dec 13 18:25	20° ප් 40'17		evening rise	11787 Nov 16 10:57	13° ₹ 26′18	
	11786 Dec 19 13:27	0° ≈			11787 Nov 24 19:48	0°る	
evening max el	11787 Jan 04 05:18	19° ≈ 38'46	27°31'34	desc. node	11787 Nov 30 15:29	10° る 03'08	
retrograde	11787 Jan 18 01:01	26° ≈ 58'43			11787 Dec 15 11:58	0° ≈	
evening set	11787 Jan 25 00:19	24°≈36'21		evening max el	11787 Dec 17 11:20	1°≈57'38	27°08'45
min. Earth dist.	11787 Jan 28 18:11	21° ≈ 33'01	0.62657 AU	retrograde	11787 Dec 31 09:21	9° ≈ 10'10	
inferior conj	11787 Jan 31 15:03	18° ≈ 47'35		evening set	11788 Jan 07 06:41	7°≈05'15	
minimum elong	11787 Jan 31 18:53	18° ≈ 38'19		min. Earth dist.	11788 Jan 11 01:47	4°≈22'29	0.60552 AU
asc. node	11787 Feb 06 11:05	14°≈09'20	1 32 33	inferior conj	11788 Jan 14 05:19	1°≈43'10	
morning rise	11787 Feb 07 15:54	13°≈38'21		minimum elong	11788 Jan 14 11:59		3°09'55
direct	11787 Feb 09 22:38	13°≈14'19	.=		11788 Jan 16 07:35	30°Rる	
morning max el	11787 Feb 16 14:31	16° ≈ 38'17	17°46'51	morning rise	11788 Jan 21 20:06	26° ප 53'45	
	11787 Feb 26 02:39	0° ∀		direct	11788 Jan 23 22:50	26° පි 35'58	
morning set	11787 Mar 04 14:21	11° ∺ 14'12		asc. node	11788 Jan 24 08:22	26° ⋜ 36'37	
desc. node	11787 Mar 11 19:13	23°) 45′46			11788 Jan 30 23:32	0° ≈	
	11787 Mar 15 11:33	0° Y		morning max el	11788 Jan 31 05:28	0° ≈ 14'18	17°59'18
				morning set	11788 Feb 15 19:39	24° ≈ 47'23	
superior conj	11787 Mar 16 09:16	1° Y 30'47	-0°34'33	-	11788 Feb 18 15:34	0° ∀	
minimum elong	11787 Mar 16 05:48	1° Υ 16'22	0°33'59				
max. Earth dist.	11787 Mar 23 00:43	12° Υ 23'08	1.44100 AU	superior conj	11788 Feb 26 00:10	13°) 15′03	0°05'05
evening rise	11787 Mar 31 05:38	25° Υ 17'54		minimum elong	11788 Feb 26 00:36	13°) € 17'00	0°05'19
- , emily 1150	11787 Apr 03 07:12	0° 8		behind sun begin	11788 Feb 25 17:01	12°) 43'38	5 05 17
	=	0°I				12° X 43'38	
	11787 Apr 24 03:34		21907122	behind sun end	11788 Feb 26 08:12		
evening max el	11787 Apr 30 10:27	7° Ⅱ 20′52	21°07'32	desc. node	11788 Feb 26 15:49	14° ¥ 23'40	
asc. node	11787 May 05 08:21	11° Ⅱ 17'51		max. Earth dist.	11788 Mar 04 14:01	26° ¥ 10′56	1.42372 AU
retrograde	11787 May 09 00:53	12° Ⅱ 22'32			11788 Mar 06 21:47	0°Υ	
evening set	11787 May 13 07:48	10° Ⅱ 39'46		evening rise	11788 Mar 10 06:33	5° Y 25′01	
inferior conj	11787 May 18 14:10	4° Ⅱ 27'26	3°07'08		11788 Mar 26 13:45	9° 8	
minimum elong	11787 May 18 13:01	4° Ⅱ 31′25	3°06'20	evening max el	11788 Apr 12 04:19	21° 8 07'06	22°24'12
min. Earth dist.	11787 May 18 23:17	3° Ⅱ 55'46	0.68496 AU	asc. node	11788 Apr 21 05:38	26° 8 50'07	
	11/6/ Way 16 23.1/	3 10	0.00.70110	abe. noue	11/00/1pi 21 05.50		
	11787 May 18 23:17 11787 May 21 23:42	30° R 8	0.00190110	retrograde	11788 Apr 21 22:08	26° 8 52'22	

evening set	11788 Apr 26 15:58	24° 8 54'18		inferior conj	11789 Apr 16 08:21	2° 8 41'26	2020106
inferior conj	=	18° 8 32'22	2°48'33	minimum elong	11789 Apr 16 06:12	2° 8 48'49	2°19'09
,	11788 May 01 23:24 11788 May 01 21:34	18° 8 38'45	2°47'39	minimum elong		2 04849 30°RY	2 19 09
minimum elong	•				11789 Apr 18 08:55	26° Y 37'30	
min. Earth dist.	11788 May 01 19:39	18° 8 45'27	0.68767 AU	morning rise	11789 Apr 21 14:25		
morning rise	11788 May 07 03:02	12° 8 21'38		direct	11789 Apr 25 17:40	25° Υ '01'02	20022124
direct	11788 May 11 19:16	10° 8 23'52	01050150	morning max el	11789 May 03 18:36	29° Y 35′09	20°33'34
morning max el	11788 May 20 23:43	15° 8 45'33	21°52'53		11789 May 04 04:29	0° 8	
desc. node	11788 May 24 17:17	19° 8 51'22		desc. node	11789 May 11 14:05	8° 8 55'36	
	11788 Jun 01 13:24	Π °0			11789 May 26 04:07	Π °0	
	11788 Jun 21 15:31	0ಂಣ		morning set	11789 Jun 01 21:52	10° Ⅱ 18'43	
morning set	11788 Jun 22 13:47	1° 5 28'47		max. Earth dist.	11789 Jun 10 16:37		1.43585 AU
max. Earth dist.	11788 Jun 28 09:34	10° © 58'27	1.41659 AU		11789 Jun 14 06:44	0 \circ	
superior conj	11788 Jul 06 01:49	24° © 05'16		superior conj	11789 Jun 17 04:17	4°9647'11	
minimum elong	11788 Jul 06 08:22	24°934'01	1°36'54	minimum elong	11789 Jun 17 10:16	5°912'04	2°02'26
	11788 Jul 09 09:45	0 \circ Ω		evening rise	11789 Jun 29 12:54	25° © 59'56	
evening rise	11788 Jul 16 19:42	13° £ 32′40			11789 Jul 01 19:38	0 \circ Ω	
asc. node	11788 Jul 18 04:27	16° Ω 03'34		asc. node	11789 Jul 05 01:19	5° Ω 37'40	
	11788 Jul 26 02:24	0° m y		evening max el	11789 Jul 16 10:34	22° Ω 13′05	18°03'44
evening max el	11788 Aug 01 21:32	9° ™ 05′26	18°11'57	retrograde	11789 Jul 22 22:57	25° Ω 34'52	
retrograde	11788 Aug 08 23:50	12° m)41'28		evening set	11789 Jul 25 13:01	25° Ω 02'31	
evening set	11788 Aug 11 05:51	12° m 20'19		inferior conj	11789 Aug 01 01:22	19° Ω 57'32	1°49'30
inferior conj	11788 Aug 18 10:38	7° m 34'37	0°39'58	minimum elong	11789 Aug 01 03:58	19° Ω 50'59	1°48'09
minimum elong	11788 Aug 18 11:55	7° m)31'47	0°39'07	min. Earth dist.	11789 Aug 04 02:22	16° Ω 55'09	0.61630 AU
desc. node	11788 Aug 20 15:39	5° m 38'05		morning rise	11789 Aug 07 16:25	13° Ω 54'45	
min. Earth dist.	11788 Aug 21 18:24	4° m)41'11	0.59347 AU	desc. node	11789 Aug 07 13:00	14° Ω 00'42	
morning rise	11788 Aug 25 14:39	1° m/55'12		direct	11789 Aug 14 08:25	11°Ω36'01	
direct	11788 Aug 31 23:56	0° Mp 02'07		morning max el	11789 Aug 28 13:14	19° Ω 36'40	27°57'48
morning max el	11788 Sep 15 08:28	7° m ₂ 51'08	27°37'42	morning max or	11789 Sep 06 09:48	0° m)	27 37 10
morning max er	11788 Oct 02 03:31	0∘ ⊽	21 31 42		11789 Sep 35 01:42	0∘ ⊽	
asc. node	11788 Oct	22° ⊆ 00'13		morning set	11789 Oct 01 01:59	ი — 11° ჲ 50'41	
morning set	11788 Oct 14 03.41 11788 Oct 17 00:27	22 ⊆ 00 13 27° ⊆ 44'55		asc. node	11789 Oct 01 01:39	11° ⊆ 52'33	
morning set	11788 Oct 17 00.27	27 = 44 33 0° M		max. Earth dist.	11789 Oct 01 02.21 11789 Oct 06 16:44	23° £ 46'52	1.31711 AU
T (1 11)			1 21245 ATT	max. Earth dist.	11/89 Oct 00 10.44	23 ==40 32	1.31/11 AU
max. Earth dist.	11788 Oct 23 10:18	11°M42'24	1.31345 AU	aumariar aani	11700 Oat 00 11:42	279 0 42140	1906151
				superior conj	11789 Oct 08 11:42	27° £ 42'40	1°06'51
superior conj	11788 Oct 24 01:39	13° M .07'51	1°22'59	superior conj minimum elong	11789 Oct 08 09:27	27° ≙ 30'16	1°06'51 1°06'48
superior conj minimum elong	11788 Oct 24 01:39 11788 Oct 23 23:38	13°M07'51 12°M56'37		minimum elong	11789 Oct 08 09:27 11789 Oct 09 12:35	27° £ 30'16 0° ™	
superior conj	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55	13°M07'51 12°M56'37 27°M56'28	1°22'59		11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30	27° £ 30'16 0° M 12° M 31'33	
superior conj minimum elong evening rise	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05	13°M07'51 12°M56'37 27°M56'28 0°⊀	1°22'59	minimum elong evening rise	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19	27° Ω 30'16 0° M 12° M 31'33 0° x ⁷	
superior conj minimum elong	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38	13°M07'51 12°M56'37 27°M56'28 0° ₹ 28° ₹ 45'51	1°22'59	minimum elong evening rise desc. node	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53	27° £ 30'16 0° M 12° M 31'33 0° ⊀ 16° ⊀ 32'23	1°06'48
superior conj minimum elong evening rise desc. node	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39	13°M.07'51 12°M.56'37 27°M.56'28 0° ⊀ 28° ₹ 45'51 0° ₹	1°22'59 1°23'15	minimum elong evening rise	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26	27° ♣30'16 0° M. 12° M.31'33 0° ⊀ 16° ₹32'23 24° ₹03'53	1°06'48
superior conj minimum elong evening rise desc. node evening max el	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56	13°M07'51 12°M56'37 27°M56'28 0°メ 28°メ45'51 0°云 13°云25'47	1°22'59 1°23'15	minimum elong evening rise desc. node evening max el	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20	27° £ 30'16 0° M 12° M 31'33 0° ₹ 16° ₹ 32'23 24° ₹ 03'53 0° ₹	1°06'48
superior conj minimum elong evening rise desc. node evening max el retrograde	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17	13°M07'51 12°M56'37 27°M56'28 0°ズ 28°ズ45'51 0°उ 13°उ25'47 20°उ30'24	1°22'59 1°23'15	minimum elong evening rise desc. node	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27	27° £ 30'16 0° M 12° M 31'33 0° ⊀ 16° ₹ 32'23 24° ₹ 03'53 0° ♂ 0° ♂ 58'16	1°06'48
superior conj minimum elong evening rise desc. node evening max el retrograde evening set	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 18 18:13	13°M07'51 12°M56'37 27°M56'28 0° ₹ 28° ₹45'51 0° ₹ 13° ₹25'47 20° ₹30'24 18° ₹51'46	1°22'59 1°23'15 26°11'49	minimum elong evening rise desc. node evening max el retrograde	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56	27° ♀ 30'16 0° M 12° M 31'33 0° ҂ 16° ҂ 32'23 24° ⋄ 703'53 0° ♂ 0° ♂ 58'16 30° Ŗ⋄	1°06'48
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 18 18:13 11788 Dec 22 23:05	13°M07'51 12°M56'37 27°M56'28 0°メ 28°メ45'51 0°उ 13°उ25'47 20°330'24 18°351'46 16°316'22	1°22'59 1°23'15 26°11'49 0.58420 AU	minimum elong evening rise desc. node evening max el	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27	27° ♣30'16 0° M. 12° M.31'33 0° ♂ 16° ♂32'23 24° ♂03'53 0° ♂ 0° ♂58'16 30° R.♂ 29° ♂55'53	1°06'48
superior conj minimum elong evening rise desc. node evening max el retrograde evening set	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 18 18:13	13°M07'51 12°M56'37 27°M56'28 0°メ 28°メ45'51 0°उ 13°उ25'47 20°उ30'24 18°उ51'46 16°उ16'22 13°उ59'19	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27	minimum elong evening rise desc. node evening max el retrograde	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56	27° ♀ 30'16 0° M 12° M 31'33 0° ҂ 16° ҂ 32'23 24° ⋄ 703'53 0° ♂ 0° ♂ 58'16 30° Ŗ⋄	1°06'48
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superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 18 18:13 11788 Dec 22 23:05 11788 Dec 26 01:49 11788 Dec 26 10:10 11789 Jan 03 04:53	13°M07'51 12°M56'37 27°M56'28 0°ダ 28°ダ45'51 0°℧ 13°℧25'47 20°℧30'24 18°℧51'46 16°℧16'22 13°℧59'19 13°℧43'57 9°℧32'01	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56 11789 Nov 29 06:26 11789 Dec 04 12:11 11789 Dec 07 01:56 11789 Dec 07 08:17	27° № 30'16 0° № 12° № 31'33 0° ৵ 16° ৵ 32'23 24° ৵ 03'53 0° ♂ 0° ♂ 58'16 30° ₨ ৵ 29° ৵ 51'53 27° ৵ 06'08 25° ৵ 27'19 25° ৵ 17'07	1°06'48 24°46'16 0.56520 AU -5°29'19
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 18 18:13 11788 Dec 26 01:49 11788 Dec 26 10:10 11789 Jan 03 04:53 11789 Jan 05 07:46	13°M07'51 12°M56'37 27°M56'28 0°ダ 28°ダ45'51 0°℧ 13°℧25'47 20°℧30'24 18°℧51'46 16°℧16'22 13°℧59'19 13°℧43'57 9°℧32'01 9°℧17'03	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27 4°26'23	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56 11789 Nov 29 06:26 11789 Dec 04 12:11 11789 Dec 07 01:56 11789 Dec 07 08:17 11789 Dec 15 12:19	27° \$\Omega 30'16 0° \$\mathbb{n}\$ 12° \$\mathbb{n}\$ 31'33 0° \$\mathbb{n}\$ 16° \$\mathbb{n}\$ 32'23 24° \$\mathbb{n}\$ 03'53 0° \$\mathbb{c}\$ 0° \$\mathbb{c}\$ 58'16 30° \$\mathbb{n}\$ \$\mathbb{n}\$ 55' \$\mathbb{n}\$ 51'53 27° \$\mathbb{n}\$ 06'08 25° \$\mathbb{n}\$ 27'19 25° \$\mathbb{n}\$ 17'07 21° \$\mathbb{n}\$ 21'30 21° \$\mathbb{n}\$ 05'35	1°06'48 24°46'16 0.56520 AU -5°29'19
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superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 12 08:17 11788 Dec 26 01:49 11788 Dec 26 01:49 11788 Dec 26 10:10 11789 Jan 03 04:53 11789 Jan 05 07:46 11789 Jan 10 05:33 11789 Jan 13 14:05 11789 Jan 24 20:33 11789 Jan 29 13:30 11789 Feb 07 12:25 11789 Feb 07 14:54 11789 Feb 07 16:52	13°M07'51 12°M56'37 27°M56'28 0°ズ 28°ズ45'51 0°℧ 13°℧25'47 20°℧30'24 18°℧51'46 16°℧16'22 13°℧59'19 13°℧43'57 9°℧32'01 9°℧17'03 10°℧42'27 13°℧19'45 0°≈ 8°≈54'36	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27 4°26'23 18°31'49	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56 11789 Nov 29 06:26 11789 Dec 04 12:11 11789 Dec 07 01:56 11789 Dec 07 01:56 11789 Dec 15 12:19 11789 Dec 17 21:51 11789 Dec 27 12:15 11789 Dec 28 02:40 11789 Dec 31 06:43 11790 Jan 13 15:45 11790 Jan 16 22:47	27° \$\Delta 30'16 0° \$\mathbb{n}\$ 12° \$\mathbb{n} 31'33 0° \$\mathbb{n}\$ 16° \$\mathbb{n} 32'23 24° \$\mathbb{n} 03'53 0° \$\mathred{G}\$ 0° \$\mathred{G}\$ 58'16 30° \$\mathred{R}\$ \$\mathred{M}\$ 29° \$\mathred{M}\$ 51'53 27° \$\mathred{M}\$ 06'08 25° \$\mathred{R}\$ 27'19 25° \$\mathred{M}\$ 17'07 21° \$\mathred{M}\$ 21'30 21° \$\mathred{M}\$ 05'35 25° \$\mathred{M}\$ 42'06 26° \$\mathred{M}\$ 17'50 0° \$\mathred{G}\$ 23° \$\mathred{G}\$ 22'48 0° \$\implies\$	1°06'48 24°46'16 0.56520 AU -5°29'19 5°27'36 19°26'17
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superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 12 08:17 11788 Dec 22 23:05 11788 Dec 26 01:49 11789 Jan 03 04:53 11789 Jan 05 07:46 11789 Jan 10 05:33 11789 Jan 13 14:05 11789 Jan 24 20:33 11789 Jan 29 13:30 11789 Feb 07 12:25 11789 Feb 07 14:54 11789 Feb 09 16:52 11789 Feb 19 03:44 11789 Feb 19 03:44 11789 Feb 27 14:36 11789 Mar 21 06:22 11789 Mar 25 18:59 11789 Apr 05 16:38	13°M07'51 12°M56'37 27°M56'28 0° ズ 28° ズ45'51 0° 云 13° 云25'47 20° 云30'24 18° 云51'46 16° 云16'22 13° 云59'19 13° 云43'57 9° 云32'01 9° 云17'03 10° 云42'27 13° 云19'45 0° ≈ 8° ≈54'36 25° ≈59'02 26° ≈10'33 0° 光 5° 光03'33 9° 光17'31 16° 光27'19 0° Υ 0° ႘ 4° ႘56'06 11° ႘21'25	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27 4°26'23 18°31'49 0°38'40 0°38'47 1.40273 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56 11789 Nov 29 06:26 11789 Dec 04 12:11 11789 Dec 07 01:56 11789 Dec 07 01:56 11789 Dec 17 21:51 11789 Dec 17 21:51 11789 Dec 27 12:15 11789 Dec 28 02:40 11789 Dec 31 06:43 11790 Jan 13 15:45 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 30 09:10 11790 Jan 31 22:02 11790 Feb 01 20:03 11790 Feb 01 20:03 11790 Feb 21 00:23 11790 Mar 08 08:31	27° 230'16 0° 11 12° 1131'33 0° 37 16° 32'23 24° 3732'23 24° 3732'23 24° 3732'23 27° 3706'08 25° 3727'19 25° 3717'07 21° 3721'30 21° 3705'35 25° 3742'06 26° 3717'50 0° 36 23° 3722'48 0° 38 0° 38 21° 3842'49 25° 3840'58 28° 3823'58 0° 11 0° 17 18° 1747'15	1°06'48 24°46'16 0.56520 AU -5°29'19 5°27'36 19°26'17 1°04'44 1°04'59
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 31 18:05 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 12 08:17 11788 Dec 22 23:05 11788 Dec 26 01:49 11789 Jan 03 04:53 11789 Jan 03 04:53 11789 Jan 10 05:33 11789 Jan 13 14:05 11789 Jan 24 20:33 11789 Jan 29 13:30 11789 Feb 07 12:25 11789 Feb 07 14:54 11789 Feb 09 16:52 11789 Feb 12 12:28 11789 Feb 14 22:28 11789 Feb 19 03:44 11789 Feb 27 14:36 11789 Mar 21 06:22 11789 Mar 25 18:59 11789 Apr 05 16:38 11789 Apr 05 16:38	13°M07'51 12°M56'28 0° ズ 28°ズ45'51 0°G 13°G25'47 20°G30'24 18°G51'46 16°G16'22 13°G59'19 13°G43'57 9°G32'01 9°G17'03 10°G42'27 13°G19'45 0°≈ 8°≈54'36 25°≈59'02 26°≈10'33 0° 光 5° H03'33 9° H17'31 16° H27'19 0° Y 0° B 4°B56'06 11°B21'25 10°B53'59	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27 4°26'23 18°31'49 0°38'40 0°38'47 1.40273 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening rise	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56 11789 Nov 29 06:26 11789 Dec 04 12:11 11789 Dec 07 01:56 11789 Dec 07 01:56 11789 Dec 17 21:51 11789 Dec 17 21:51 11789 Dec 28 02:40 11789 Dec 28 02:40 11789 Dec 31 06:43 11790 Jan 13 15:45 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 21 20:03 11790 Jan 30 09:10 11790 Jan 31 22:02 11790 Feb 01 20:03 11790 Feb 01 20:03 11790 Feb 21 00:23 11790 Mar 08 08:31 11790 Mar 08 08:31	27° № 30'16 0° ™ 12° ™ 31'33 0° ♂ 16° ♂ 32'23 24° ♂ 03'53 0° ♂ 0° ♂ 558'16 30° ₨ ♂ 29° ♂ 51'53 27° ♂ 06'08 25° ♂ 27'19 25° ♂ 17'07 21° ♂ 21'30 21° ♂ 05'35 25° ♂ 42'06 26° ♂ 17'50 0° ♂ 23° ♂ 22'48 0° ≈ 9° ≈ 27'37 9° ≈ 41'58 21° ≈ 42'49 25° ≈ 40'58 28° ≈ 23'58 0° ዅ 0° ♈ 18° ♈ 47'15 25° ♈ 43'22	1°06'48 24°46'16 0.56520 AU -5°29'19 5°27'36 19°26'17 1°04'44 1°04'59 1.38045 AU
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	11788 Oct 24 01:39 11788 Oct 23 23:38 11788 Oct 30 18:55 11788 Oct 31 18:05 11788 Nov 16 12:38 11788 Nov 17 08:39 11788 Nov 28 09:56 11788 Dec 12 08:17 11788 Dec 12 08:17 11788 Dec 22 23:05 11788 Dec 26 01:49 11789 Jan 03 04:53 11789 Jan 05 07:46 11789 Jan 10 05:33 11789 Jan 13 14:05 11789 Jan 24 20:33 11789 Jan 29 13:30 11789 Feb 07 12:25 11789 Feb 07 14:54 11789 Feb 09 16:52 11789 Feb 19 03:44 11789 Feb 19 03:44 11789 Feb 27 14:36 11789 Mar 21 06:22 11789 Mar 25 18:59 11789 Apr 05 16:38	13°M07'51 12°M56'37 27°M56'28 0° ズ 28° ズ45'51 0° 云 13° 云25'47 20° 云30'24 18° 云51'46 16° 云16'22 13° 云59'19 13° 云43'57 9° 云32'01 9° 云17'03 10° 云42'27 13° 云19'45 0° ≈ 8° ≈54'36 25° ≈59'02 26° ≈10'33 0° 光 5° 光03'33 9° 光17'31 16° 光27'19 0° Υ 0° ႘ 4° ႘56'06 11° ႘21'25	1°22'59 1°23'15 26°11'49 0.58420 AU -4°29'27 4°26'23 18°31'49 0°38'40 0°38'47 1.40273 AU	minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	11789 Oct 08 09:27 11789 Oct 09 12:35 11789 Oct 15 05:30 11789 Oct 23 22:19 11789 Nov 03 09:53 11789 Nov 10 00:26 11789 Nov 18 18:20 11789 Nov 23 19:27 11789 Nov 28 21:56 11789 Nov 29 06:26 11789 Dec 04 12:11 11789 Dec 07 01:56 11789 Dec 07 01:56 11789 Dec 17 21:51 11789 Dec 17 21:51 11789 Dec 27 12:15 11789 Dec 28 02:40 11789 Dec 31 06:43 11790 Jan 13 15:45 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 21 17:07 11790 Jan 30 09:10 11790 Jan 31 22:02 11790 Feb 01 20:03 11790 Feb 01 20:03 11790 Feb 21 00:23 11790 Mar 08 08:31	27° 230'16 0° 11 12° 1131'33 0° 37 16° 32'23 24° 3732'23 24° 3732'23 24° 3732'23 27° 3706'08 25° 3727'19 25° 3717'07 21° 3721'30 21° 3705'35 25° 3742'06 26° 3717'50 0° 36 23° 3722'48 0° 38 0° 38 21° 3842'49 25° 3840'58 28° 3823'58 0° 11 0° 17 18° 1747'15	1°06'48 24°46'16 0.56520 AU -5°29'19 5°27'36 19°26'17 1°04'44 1°04'59 1.38045 AU

min. Earth dist.	11790 Mar 30 11:00	18° Ƴ 22'30	0.67976 AU	asc. node	11791 Mar 12 21:38	4° Y ′20'45	
inferior conj	11790 Mar 31 15:07	16° Y ′50′16	1°41'55	min. Earth dist.	11791 Mar 14 01:30	2° Y ′58′23	0.66947 AU
minimum elong	11790 Mar 31 13:05	16° Y 56'55	1°41'05	inferior conj	11791 Mar 15 17:41	0° Y ′54′29	0°53'52
morning rise	11790 Apr 06 02:12	10° Y ′54′30		minimum elong	11791 Mar 15 16:23	0° Y ′58′32	
direct	11790 Apr 09 17:17	9° Ƴ 38'49		Ü	11791 Mar 16 11:27	30° ₹	
morning max el	11790 Apr 16 21:05	13° Y °35'48	19°27'44	morning rise	11791 Mar 21 12:23	25° ¥ 08'45	
desc. node	11790 Apr 28 10:49	28° Y '31'48		direct	11791 Mar 24 16:26	24°) 11'48	
	11790 Apr 29 10:52	0°8		morning max el	11791 Mar 31 06:50	27°) (44'28	18°37'44
greatest brilliancy	11790 Apr 29 14:03	0° 8 11'44	-0.7m	Ü	11791 Apr 02 09:13	$0^{\circ}\mathbf{\Upsilon}$	
morning set	11790 May 11 21:59	18° 8 52'48		desc. node	11791 Apr 15 07:30	18° Ƴ 31'21	
8	11790 May 19 02:18	0°II		morning set	11791 Apr 21 12:57	28° Y 15'54	
max. Earth dist.	11790 May 24 06:19	8° I 106'06	1.44971 AU	Ü	11791 Apr 22 15:30	0°8	
	,			max. Earth dist.	11791 May 07 00:55	22° 8 31'00	1.45670 AU
superior conj	11790 May 28 07:02	14° Ⅱ 29'47	-2°13'14		,		
minimum elong	11790 May 28 07:48	14° Ⅲ 32'52		superior conj	11791 May 07 16:44	23° 8 32'51	-2°05'00
	11790 Jun 06 20:22	0ಂತಾ		minimum elong	11791 May 07 10:04	23° 8 06'47	
evening rise	11790 Jun 11 09:19	7° © 32'00		Ü	11791 May 11 19:35	0°II	
asc. node	11790 Jun 21 22:16	24° 9 51'38		evening rise	11791 May 23 05:39	18° Ⅱ 03'47	
	11790 Jun 25 09:01	$0^{\circ}\Omega$		3	11791 May 30 17:36	0°©	
evening max el	11790 Jun 30 00:36	5° Ω 39'55	18°14'06	greatest brilliancy	11791 May 31 00:05	0°925'36	-0.9m
retrograde	11790 Jul 06 09:12	9° Ω 01'51		asc. node	11791 Jun 08 19:18	13° © 37'53	
evening set	11790 Jul 09 07:30	8° Ω 15'44		evening max el	11791 Jun 13 12:39	19° © 17'47	18°42'17
inferior conj	11790 Jul 15 07:10	2°Ω53'06	2°35'59	retrograde	11791 Jun 20 02:40	22° © 53'29	
minimum elong	11790 Jul 15 09:35	2°Ω46'15		evening set	11791 Jun 23 09:18	21°952'06	
minimum viong	11790 Jul 17 20:50	30°R.55	2 3	inferior conj	11791 Jun 29 00:05	16°9513'26	3°03'10
min. Earth dist.	11790 Jul 17 19:37	0° Ω 03′20	0.63797 AU	minimum elong	11791 Jun 29 01:37	16°908'41	3°02'12
morning rise	11790 Jul 21 10:09	26°937'08	0.037777110	min. Earth dist.	11791 Jun 30 21:50	13°952'31	0.65663 AU
desc. node	11790 Jul 25 10:17	24°925'26		morning rise	11791 Jul 04 17:07	9°951'49	0.03003710
direct	11790 Jul 28 02:07	24°901'22		direct	11791 Jul 11 03:25	7°909'33	
direct	11790 Aug 08 18:53	0°Ω		desc. node	11791 Jul 12 07:33	7° © 14'23	
morning max el	11790 Aug 08 18:33	2° Ω 02'52	27940126	morning max el	11791 Jul 24 09:08	14°959'35	26°51'12
morning max er	11790 Aug 10 22:13	0° m)	27 40 20	morning max er	11791 Jul 24 09:08 11791 Aug 05 15:41	0°Ω	20 31 12
morning set	11790 Aug 31 10.23	25° Mp 32'31			11791 Aug 03 13:41 11791 Aug 24 10:43	0°m)	
morning set	=				=		
aga mada	11790 Sep 17 00:56	0° 亞 1° 亞 53'38		morning set max. Earth dist.	11791 Aug 29 03:21	8° Mp 42'17 16° Mp 55'39	1.33999 AU
asc. node max. Earth dist.	11790 Sep 17 23:02 11790 Sep 19 17:00	5° Ω 32'49	1.32598 AU	asc. node	11791 Sep 02 08:05 11791 Sep 04 19:43	21° Mp 58'44	1.33999 AU
max. Earth dist.	11/90 Sep 19 17.00	3 == 32 49	1.32396 AU	asc. Houe	11/91 Sep 04 19.43	21 III 30 44	
superior conj	11790 Sep 22 18:17	12° Ω 03'53	0°45'26	superior conj	11791 Sep 06 19:04	26° Mp 04'29	0°19'03
minimum elong	11790 Sep 22 16:20	11° ≏ 53'22	0°45'09	minimum elong	11791 Sep 06 18:06	25° m 59'21	0°18'43
evening rise	11790 Sep 22 16:52	27° Ω 06'33	0 15 05	minimum ciong	11791 Sep 08 15:51	0∘ ರ	0 10 15
evening rise	11790 Oct 01 01:31	0°M		evening rise	11791 Sep 06 13:51 11791 Sep 14 03:02	0 — 11° ≏ 35'21	
	11790 Oct 01 01:51	0° ⊼ ¹		evening rise	11791 Sep 14 03:02	0°M	
desc. node	11790 Oct 18 14:30 11790 Oct 21 07:12	3° ₹ 101'44		evening max el	11791 Sep 23 13.47 11791 Oct 04 01:52	14°M22'42	2102811
evening max el	11790 Oct 21 07:12 11790 Oct 22 10:51	4° ⋌ 11'24	23°05'53	desc. node	11791 Oct 04 01:32 11791 Oct 08 04:35	17°M46'23	21 20 11
retrograde	11790 Oct 22 10:31 11790 Nov 04 17:24	10° × ⁷ 47'33	23 03 33	retrograde	11791 Oct 08 04:33	20°M25'38	
evening set	11790 Nov 04 17:24 11790 Nov 08 19:31	10 x 47 33 10° x 11'15		evening set	11791 Oct 18 03:33	20°M08'30	
min. Earth dist.	11790 Nov 08 19.31 11790 Nov 15 20:09		0.55153 AU	-	11791 Oct 18 23:32 11791 Oct 27 23:25	16°M13'15	5015120
		6° ₹ 07'09		inferior conj			5°13'32
inferior conj	11790 Nov 17 06:38			minimum elong	11791 Oct 27 14:54		
minimum elong	11790 Nov 17 05:47	2°×108'23	5°50'04	min. Earth dist.	11791 Oct 28 02:39 11791 Nov 05 07:11	16°M08'43 12°M24'24	0.54576 AU
morning rise	11790 Nov 25 17:39			morning rise			
direct	11790 Nov 28 17:40	1° 🗷 55'49	20042140	direct	11791 Nov 09 02:15	11°M53'18	22021110
morning max el	11790 Dec 09 20:50	7° √ 12'55	20°43'40	morning max el	11791 Nov 21 16:07	17°M53'29	22°21'19
asc. node	11790 Dec 14 23:42	13° ∡ '07'34		,	11791 Dec 01 06:44	0° ₹	
	11790 Dec 24 23:37	0°る		asc. node	11791 Dec 01 20:41	0° ₹ 55'16	
morning set	11790 Dec 28 23:23	8° る 03'37		morning set	11791 Dec 13 10:06	22° ₹ 50'16	
gunorier con-	11701 Ion 05 00:54	220=220154	1022100		11791 Dec 16 18:42	0°₹	
superior conj	11791 Jan 05 09:54	23° る 28'54	1°23'09		11701 D 20 11 12	7075015	102421
minimum elong	11791 Jan 05 12:18	23°₹41'11	1°23'39	superior conj	11791 Dec 20 11:12	7°る52'51	1°34'21
am at 41 c	11791 Jan 08 15:33	0°≈ 20~~4211.5	1 25021 ***	minimum elong	11791 Dec 20 12:36	8° ろ 00'14	1°35'03
max. Earth dist.	11791 Jan 10 12:52	3°≈42'15	1.35931 AU	max. Earth dist.	11791 Dec 24 03:44	15° る 35'06	1.34113 AU
evening rise	11791 Jan 14 10:51	11°≈07'31		evening rise	11791 Dec 28 14:35	24°₹28'46	
desc. node	11791 Jan 17 05:57	16°≈12'16			11791 Dec 31 12:14	0° ≈	
	11791 Jan 25 09:34	0°){		desc. node	11792 Jan 04 02:50	6°≈33'02	
	11791 Feb 16 09:03	0°Υ			11792 Jan 18 22:39	0° ∀	
evening max el	11791 Feb 18 22:09	2° Y 36'41	26°11'16	evening max el	11792 Feb 01 11:44		27°02'30
retrograde	11791 Mar 03 16:23	9° ℃ 51'57		retrograde	11792 Feb 14 19:56	23°) (39′59	
evening set	11791 Mar 09 21:08	7° Y 21'30		evening set	11792 Feb 21 10:42	21°) €06'50	

27°**∡**34′22 1.32716 AU

max. Earth dist.

11793 Nov 19 07:23

9°**∡**¹44'42 1.31797 AU

max. Earth dist.

11792 Dec 06 02:17

evening rise	11793 Nov 25 05:29	22° ₹ 30'34		minimum elong	11794 Nov 02 14:31	21°M.52'13	1°30'15
evening rise	11793 Nov 28 22:02	0°중		max. Earth dist.	11794 Nov 02 14:51	22°M00'22	1.31372 AU
desc. node	11793 Nev 20 22:02 11793 Dec 07 20:49	ි ජ 16°ජ18'33		max. Earth dist.	11794 Nov 06 06:21	0° ₹	1.515,2110
dese. node	11793 Dec 37 20:49	0°≈		evening rise	11794 Nov 09 11:03	6° ₹ 55'50	
evening max el	11793 Dec 27 09:11		27°26'09	0.00000	11794 Nov 21 10:25	0°ਰ	
retrograde	11794 Jan 10 06:38	19° ≈ 36'13		desc. node	11794 Nov 24 17:55	5° පි 26'02	
evening set	11794 Jan 17 05:50	17° ≈ 20'09		evening max el	11794 Dec 09 12:31	24° ප 17'13	26°48'38
min. Earth dist.	11794 Jan 20 23:28	14° ≈ 26'39	0.61771 AU	8	11794 Dec 17 11:40	0° ≈	
inferior conj	11794 Jan 23 23:49	11° ≈ 41'44	-2°27'32	retrograde	11794 Dec 23 11:05	1° ≈ 25'54	
minimum elong	11794 Jan 24 04:52	11° ≈ 30'10	2°24'56		11794 Dec 29 06:47	30° Ŗ ⋜	
morning rise	11794 Jan 31 06:38	6° ≈ 40'36		evening set	11794 Dec 30 04:40	29° ට 31'36	
asc. node	11794 Jan 31 13:36	6°≈35'29		min. Earth dist.	11795 Jan 03 02:46	26° る 53'30	0.59637 AU
direct	11794 Feb 02 11:05	6° ≈ 19'47		inferior conj	11795 Jan 06 06:56	24° る 21'55	-3°46'21
morning max el	11794 Feb 09 08:26	9° ≈ 49'03	17°49'47	minimum elong	11795 Jan 06 14:34	24° පි 06'41	3°43'06
	11794 Feb 22 16:41	0°) €		morning rise	11795 Jan 14 03:17	19° る 41'20	
morning set	11794 Feb 25 01:43	4°) 15′01		direct	11795 Jan 16 05:25	19° る 25'09	
desc. node	11794 Mar 05 21:24	19° ¥ 51′20		asc. node	11795 Jan 18 10:49	19° る 44'20	
				morning max el	11795 Jan 23 21:04	23° る 12'58	18°10'30
superior conj	11794 Mar 08 03:17	23°) 42′39	-0°17'14		11795 Jan 29 06:08	0° ≈	
minimum elong	11794 Mar 08 01:41	23°) ₹35′50	0°16'48	morning set	11795 Feb 08 12:55	18° ≈ 04'26	
	11794 Mar 11 20:58	$0^{\circ}\Upsilon$			11795 Feb 14 22:07	0° ∀	
max. Earth dist.	11794 Mar 15 07:22	5° Y 38'33	1.43422 AU				
evening rise	11794 Mar 22 08:11	16° Ƴ 50'06		superior conj	11795 Feb 18 03:45	5° ¥ 53′23	0°20'12
	11794 Mar 30 23:22	9° 8		minimum elong	11795 Feb 18 05:17	6° 米 00′18	0°20'21
	11794 Apr 22 06:45	Π °0		desc. node	11795 Feb 20 18:02	10°) 30′28	
evening max el	11794 Apr 22 19:16	0° Ⅲ 32′01	21°39'20	max. Earth dist.	11795 Feb 25 18:34	19° 米 09'45	1.41515 AU
asc. node	11794 Apr 29 10:54	5° Ⅱ 24'10		evening rise	11795 Mar 02 17:14	27° ∺ 19'59	
retrograde	11794 May 01 21:15	5° Ⅱ 52′20			11795 Mar 04 09:01	0° Υ	
evening set	11794 May 06 08:37	4° Ⅱ 03'10			11795 Mar 24 15:32	0° 8	
	11794 May 10 00:19	30°R₩		evening max el	11795 Apr 05 11:40	14° 8 19'57	22°58'29
inferior conj	11794 May 11 15:12	27° 8 46'32	3°00'29	retrograde	11795 Apr 15 17:20	20° 8 22'27	
minimum elong	11794 May 11 13:43	27° 8 51'41	2°59'38	asc. node	11795 Apr 16 08:10	20° 8 20'39	
min. Earth dist.	11794 May 11 18:51	27° 8 33'49	0.68667 AU	evening set	11795 Apr 20 16:02	18° 8 18'27	
morning rise	11794 May 16 18:37	21° 8 32'13		min. Earth dist.	11795 Apr 25 15:33	12° 8 24'45	0.68747 AU
direct	11794 May 21 18:34	19° 8 22'27		inferior conj	11795 Apr 26 00:32	11° 8 53'40	2°37'40
morning max el	11794 May 31 16:30	25° 8 14'17	22°42'41	minimum elong	11795 Apr 25 22:31	12° 8 00'39	2°36'45
desc. node	11794 Jun 01 22:41	26° 8 32'41		morning rise	11795 May 01 04:52	5° 8 45'44	
	11794 Jun 04 23:43	0° Ⅱ		direct	11795 May 05 15:38	3° 8 56'45	
	11794 Jun 26 08:35	0°95		morning max el	11795 May 14 07:31	8° 8 56'46	21°17'47
morning set	11794 Jul 04 17:06	13°5018'21	1 40200 ATT	desc. node	11795 May 19 19:32	15° 8 13'10	
max. Earth dist.	11794 Jul 09 08:44	21°504'49	1.40388 AU	. ,	11795 May 30 14:20	0°Ⅱ 220Ⅲ40Ⅱ6	
	11794 Jul 14 11:55	$0^{\circ}\Omega$		morning set	11795 Jun 14 13:39	22° Ⅱ 40'16 0° ©	
aumariar aani	11794 Jul 17 04:25	4° Ω 49'05	1010153	may Earth dist	11795 Jun 19 03:58 11795 Jun 21 12:22		1 42522 ATT
superior conj minimum elong	11794 Jul 17 04:23	5° Ω 14'15		max. Earth dist.	11/93 Juli 21 12.22	3 2049 19	1.42533 AU
asc. node	11794 Jul 26 09:59	22°Ω01'37	1 1043	superior conj	11795 Jun 28 20:26	16° © 06'52	1048148
evening rise	11794 Jul 27 03:04	23° Ω 22'34		minimum elong	11795 Jun 29 03:13	16°935'55	
evening rise	11794 Jul 30 15:34	0° m)		minimum clong	11795 Jul 06 18:15	0°Ω	1 48 30
evening max el	11794 Aug 12 02:50	19° Mp 05'34	18°25'32	evening rise	11795 Jul 10 06:00	6° Ω 17'04	
retrograde	11794 Aug 19 17:53	22° m 55'55	10 23 32	asc. node	11795 Jul 13 06:49	11° Ω 45'07	
evening set	11794 Aug 17 17:35	22° m 39'37			11795 Jul 24 18:27	0°m	
desc. node	11794 Aug 28 20:47	18° m 34'52		evening max el	11795 Jul 26 13:47	1° Mp 58'40	18°06'07
inferior conj	11794 Aug 29 11:18	18° mp 05'57	-0°11'14	retrograde	11795 Aug 02 08:42	5° m) 26'41	10 00 07
minimum elong	11794 Aug 29 10:52	18° Mp 06'49	0°11'19	evening set	11795 Aug 04 18:12	5° mp 01'01	
transit middle	11794 Aug 29 10:52	18° Mp 06'49		inferior conj	11795 Aug 11 15:32	0° m) 06'37	1°12'25
transit begin	11794 Aug 29 08:21	18° mp 11'52	0 11 17	minimum elong	11795 Aug 11 17:37	0° Mp 01'46	1°11'14
transit end	11794 Aug 29 13:24	18° m) 01'45			11795 Aug 11 18:23	30°R Ω	
min. Earth dist.	11794 Sep 01 18:46	15° m/28'02	0.58087 AU	min. Earth dist.	11795 Aug 14 21:18	27° Ω 06'57	0.60320 AU
morning rise	11794 Sep 05 22:29	12° m/ 45'13		desc. node	11795 Aug 15 18:09	26° Ω 22'02	
direct	11794 Sep 12 01:16	11° Mp 08'27		morning rise	11795 Aug 18 14:05	24° Ω 16'16	
morning max el	11794 Sep 26 09:14	18° Mp 46'26	27°08'29	direct	11795 Aug 25 03:06	22°Ω11'46	
<i>5</i>	11794 Oct 05 20:36	0ಂ ರ			11795 Sep 08 08:00	0° m)	
asc. node	11794 Oct 22 11:12	28° ⊆ 00'20		morning max el	11795 Sep 08 10:22	0° m/05'50	27°51'02
	11794 Oct 23 11:03	0°M		5	11795 Sep 29 22:35	0∘ ⊽	
morning set	11794 Oct 26 18:09	6°M50'36		asc. node	11795 Oct 09 07:56	17° ≏ 45'51	
-				morning set	11795 Oct 10 23:00	21° ≏ 07'30	
superior conj	11794 Nov 02 16:12	22°M01'36	1°29'49	-	11795 Oct 15 02:32	0° M	

max. Earth dist.	11795 Oct 17 00:31	4°M12'54	1.31449 AU	superior conj	11796 Oct 01 12:13	21° ≏ 11'31	0°58'24
				minimum elong	11796 Oct 01 10:01	20° ჲ 59'31	0°58'14
superior conj	11795 Oct 18 03:23	6° ጤ 41'51	1°16'49		11796 Oct 05 12:27	0° M.	
minimum elong	11795 Oct 18 01:13	6° ™ 29'46	1°16'55	evening rise	11796 Oct 08 07:33	6°M04'55	
evening rise	11795 Oct 24 20:23	21°M29'08			11796 Oct 20 18:10	0° ∡	
	11795 Oct 28 22:05	0° ∡ ¹		desc. node	11796 Oct 28 12:23	11° × 04'04	
desc. node	11795 Nov 11 15:06	23° х 47′04		evening max el	11796 Nov 01 19:26	15° ∡ ⁴44'35	24°04'14
	11795 Nov 16 08:03	5°0		retrograde	11796 Nov 15 10:29	22° ₹ 33'12	
evening max el	11795 Nov 21 07:40	5° る 23'19	25°38'10	evening set	11796 Nov 20 08:33	21° ₰ ′40′08	
retrograde	11795 Dec 05 04:46	12° る 23'09		min. Earth dist.	11796 Nov 26 06:14	18° ≯ 44'31	0.55858 AU
evening set	11795 Dec 11 06:38	10°る57'52		inferior conj	11796 Nov 28 10:20	17° ∡ ²25′19	-5°44'26
min. Earth dist.	11795 Dec 15 20:00	8° る 20'32	0.57576 AU	minimum elong	11796 Nov 28 14:12	17° ∡ 19′26	5°43'22
inferior conj	11795 Dec 18 18:55	6° ප 18'15	-4°58'02	morning rise	11796 Dec 06 21:51	13° ∡ ¹27'49	
minimum elong	11795 Dec 19 03:02	6° ප 04'12	4°55'24	direct	11796 Dec 09 12:39	13° ҂ 10'15	
morning rise	11795 Dec 27 01:53	2° る 00'17		morning max el	11796 Dec 19 18:23	18° ₰ 02'54	19°56'30
direct	11795 Dec 29 06:53	1° る 45'16		asc. node	11796 Dec 22 05:04	20° 渘 39'14	
asc. node	11796 Jan 05 07:58	4° る 29'40			11796 Dec 28 17:03	8°0	
morning max el	11796 Jan 07 01:37	6° ට 00'55	18°52'11	morning set	11797 Jan 06 15:39	16° る 57'08	
	11796 Jan 22 05:42	0° ≈			11797 Jan 13 01:27	0° ≈	
morning set	11796 Jan 23 10:45	2° ≈ 21'55					
				superior conj	11797 Jan 14 09:58	2° ≈ 42'49	1°13'27
superior conj	11796 Jan 31 23:33	18° ≈ 57'52	0°50'41	minimum elong	11797 Jan 14 12:46	2°≈56'45	1°13'48
minimum elong	11796 Feb 01 02:23	19° ≈ 11'18	0°50'50	max. Earth dist.	11797 Jan 20 08:26	14° ≈ 12'31	1.37115 AU
	11796 Feb 06 23:05	0° ∀		evening rise	11797 Jan 24 02:08	21° ≈ 03'54	
desc. node	11796 Feb 07 14:42	1° ₩ 09'42		desc. node	11797 Jan 24 11:27	21° ≈ 45'34	
max. Earth dist.	11796 Feb 08 01:59	1° ∺ 59'47	1.39329 AU		11797 Jan 29 05:21	0° ∀	
evening rise	11796 Feb 11 23:30	8°) 45′38			11797 Feb 18 06:08	0 ° Υ	
	11796 Feb 25 07:16	0 ° Υ		evening max el	11797 Feb 28 14:56	12° Y 00′58	25°33'32
evening max el	11796 Mar 18 01:37	28° Ƴ 09'58	24°18'48	retrograde	11797 Mar 12 22:33	19° Ƴ 07'14	
	11796 Mar 20 00:17	9° 8		evening set	11797 Mar 18 20:52	16° Ƴ 40′20	
retrograde	11796 Mar 29 10:04	4° 8 49'16		asc. node	11797 Mar 20 02:49	15° Ƴ 31'05	
asc. node	11796 Apr 02 05:29	3° 8 43'18		min. Earth dist.	11797 Mar 23 04:38	11° Y 57′25	0.67587 AU
evening set	11796 Apr 03 20:38	2° 8 32'17		inferior conj	11797 Mar 24 13:59	10° Y 10′35	1°22'45
	11796 Apr 06 07:38	30° ₹ Υ		minimum elong	11797 Mar 24 12:12	10° Y 16′22	1°22'04
min. Earth dist.	11796 Apr 08 11:29	27° Y 14'17	0.68381 AU	morning rise	11797 Mar 30 04:02	4°Υ19'04	
inferior conj	11796 Apr 09 08:45	26° Y ′02'43	2°05'05	direct	11797 Apr 02 14:11	3°Υ11'51	100040
minimum elong	11796 Apr 09 06:35	26° Y 10′00	2°04'10	morning max el	11797 Apr 09 11:27	6° Y 57'04	19°04'29
morning rise	11796 Apr 14 16:39	20°Υ02'22		greatest brilliancy	11797 Apr 22 15:43	24°Υ29'31	-0.7m
direct	11796 Apr 18 14:38	18° Y 34'57	20002150	desc. node	11797 Apr 22 13:03	24° Y 19'27	
morning max el	11796 Apr 26 05:36	22° Y 51'22	20-03-50		11797 Apr 26 06:45	0° と 10° と 03'54	
JJ.	11796 May 02 08:00	0°8 4°832'04		morning set	11797 May 02 19:31 11797 May 15 15:05	10 O 03 34 0° I	
desc. node	11796 May 05 16:19 11796 May 22 19:56	4 O 32 04 0° Ⅱ		max. Earth dist.	11797 May 15 13:03 11797 May 16 14:47		1.45355 AU
morning set	11796 May 23 15:41	1° Ⅱ 15'55		max. Earm dist.	11/9/ May 10 14.4/	1 ш32 33	1.43333 AU
max. Earth dist.	11796 Jun 02 22:56	17° Ⅲ 23'31	1.44249 AU	superior conj	11797 May 19 06:32	5° Ⅱ 43'38	-2°12'17
max. Dartii dist.	11/70 Jun 02 22.30	17 112551	1.4424) /10	minimum elong	11797 May 19 00:32	5° П 33'43	
superior conj	11796 Jun 08 12:30	26° Ⅲ 22'02	-2°08'53	evening rise	11797 Jun 03 01:18	29° ∏ 28'39	2 12 33
minimum elong	11796 Jun 08 16:52	26° II 39'52		evening rise	11797 Jun 03 08:58	0°95	
	11796 Jun 10 17:39	0.20 0.20		asc. node	11797 Jun 16 00:42	20°514'38	
evening rise	11796 Jun 21 14:56	18°9522'10		evening max el	11797 Jun 22 17:01	28°5946'52	18°23'57
8 11	11796 Jun 28 10:33	0°N		<i>y</i>	11797 Jun 24 01:04	$0^{\circ}\Omega$	
asc. node	11796 Jun 29 03:43	1° Ω 11'28		retrograde	11797 Jun 29 03:03	2° Ω 13'25	
evening max el	11796 Jul 09 03:35	15° Ω 15′02	18°05'53	evening set	11797 Jul 02 04:44	1° Ω 21′08	
retrograde	11796 Jul 15 13:14	18° Ω 35'29			11797 Jul 04 02:08	30°Rூ	
evening set	11796 Jul 18 06:46	17° Ω 57'32		inferior conj	11797 Jul 08 00:11	25° © 51'30	2°49'38
inferior conj	11796 Jul 24 13:12	12° Ω 44'31	2°11'48	minimum elong	11797 Jul 08 02:17	25° © 45'18	2°48'31
minimum elong	11796 Jul 24 15:52	12° Ω 37′28	2°10'27	min. Earth dist.	11797 Jul 10 06:32	23°5512'07	0.64631 AU
min. Earth dist.	11796 Jul 27 09:11	9° Ω 45'18	0.62575 AU	morning rise	11797 Jul 13 22:36	19° © 32'02	
morning rise	11796 Jul 30 22:54	6° Ω 34'49		desc. node	11797 Jul 19 12:46	16° © 55'29	
desc. node	11796 Aug 01 15:29	5° £ 29'36		direct	11797 Jul 20 12:40	16° © 52'02	
direct	11796 Aug 06 15:26	4° Ω 07'58		morning max el	11797 Aug 03 03:46	24° © 51'20	27°22'55
morning max el	11796 Aug 20 17:30	12° Ω 10′21	27°54'51		11797 Aug 07 19:48	0 ° Ω	
	11796 Sep 03 21:16	0° ™			11797 Aug 28 08:19	0° ™	
	11796 Sep 21 08:43	0∘ ত		morning set	11797 Sep 07 11:34	18° m 33'30	
morning set	11796 Sep 23 21:41	5° ≙ 04'08		max. Earth dist.	11797 Sep 12 01:31		1.33125 AU
asc. node	11796 Sep 25 04:38	7° Ω 42'39	1 22027 433	asc. node	11797 Sep 12 01:21	27° m/46'01	
max. Earth dist.	11796 Sep 29 05:00	16~4411'33	1.32027 AU		11797 Sep 13 03:08	0∘ ⊽	

superior conj	11797 Sep 15 16:38	5° £ 24'37	0°34'49	asc. node	11798 Aug 29 22:03	17° m 52'07	
minimum elong	11797 Sep 15 15:00	5° ≙ 15'58	0°34'29				
evening rise	11797 Sep 22 18:37	20° ≙ 37'40		superior conj	11798 Aug 30 14:14	19° m 15'07	0°06'32
	11797 Sep 27 07:24	0° M .		minimum elong	11798 Aug 30 13:53	19° m 13'18	0°06'14
evening max el	11797 Oct 14 06:31	25°M48'59	22°23'07	behind sun begin	11798 Aug 30 08:23	18° m 45'04	
desc. node	11797 Oct 15 09:44	26°M52'45		behind sun end	11798 Aug 30 19:22	19° m 41'35	
	11797 Oct 19 14:24	0° ∡ ¹			11798 Sep 04 17:54	0∘ ত	
retrograde	11797 Oct 27 04:10	2° ∡ 13'45		evening rise	11798 Sep 07 03:41	5° ഫ 02'22	
evening set	11797 Oct 30 15:08	1° ∡ ¹47'25			11798 Sep 20 21:49	0°M	
	11797 Nov 04 07:28	30°RML		evening max el	11798 Sep 26 02:24	6°M13′55	20°51'04
min. Earth dist.	11797 Nov 07 13:28	28°M15'25	0.54790 AU	desc. node	11798 Oct 02 07:07	10°M44'33	
inferior conj	11797 Nov 08 08:39	27° M 48'20	-5°43'18	retrograde	11798 Oct 07 15:10	11° M 57'22	
minimum elong	11797 Nov 08 04:05	27° M 54'47	5°42'15	evening set	11798 Oct 09 22:43	11° M 44'32	
morning rise	11797 Nov 16 18:28	24°ML00'59		inferior conj	11798 Oct 19 00:29	7° M 49'51	-4°43'41
direct	11797 Nov 20 01:58	23°MJ36'15		minimum elong	11798 Oct 18 14:35	8°M03'55	4°40'44
morning max el	11797 Dec 01 21:09	29°M12'16	21°23'08	min. Earth dist.	11798 Oct 19 20:46	7°M20'56	0.54609 AU
	11797 Dec 02 16:45	0° ∡ ¹		morning rise	11798 Oct 27 06:32	3° ™ 54'39	
asc. node	11797 Dec 09 02:07	7° ∡ ¹55'51		direct	11798 Oct 31 10:14	3° ™ 17'36	
	11797 Dec 21 05:22	0°రె		morning max el	11798 Nov 13 12:07	9° ™ 36'16	23°06'42
morning set	11797 Dec 22 00:51	1° る 41'19		asc. node	11798 Nov 25 23:05	26°MJ04'13	
C					11798 Nov 28 05:08	0° ∡ ¹	
superior conj	11797 Dec 29 06:47	16° る 55'21	1°28'44	morning set	11798 Dec 06 12:17	16° ≮ 28'43	
minimum elong	11797 Dec 29 08:48	17° る 05'48	1°29'20	C	11798 Dec 12 18:46	ರ°0	
max. Earth dist.	11798 Jan 02 18:51	26° る 05'27	1.35109 AU				
	11798 Jan 04 18:35	0° ≈		superior conj	11798 Dec 13 10:49	1° る 26'21	1°37'02
evening rise	11798 Jan 06 21:47	4° ≈ 05'08		minimum elong	11798 Dec 13 11:44	1° る 31'13	1°37'48
desc. node	11798 Jan 11 08:16	12°≈13'15		max. Earth dist.	11798 Dec 16 13:00	8° ろ 00'12	1.33469 AU
	11798 Jan 22 02:22	0°) €		evening rise	11798 Dec 21 06:50	17° る 40'13	
evening max el	11798 Feb 11 04:32	25°) 47′09	26°35'32		11798 Dec 27 19:48	0° ≈	
Č	11798 Feb 16 04:06	0° Y		desc. node	11798 Dec 29 05:10	2° ≈ 28'02	
retrograde	11798 Feb 24 05:45	3° Ƴ 08′07			11799 Jan 16 10:06	0°) €	
evening set	11798 Mar 02 14:54	0° Ƴ 35'51		evening max el	11799 Jan 24 17:58	9° ¥ 19'36	27°17'21
	11798 Mar 03 07:48	30° ₹		retrograde	11799 Feb 07 06:40	16°) 44′06	
min. Earth dist.	11798 Mar 06 16:49	26° ∺ 27'08	0.66388 AU	evening set	11799 Feb 14 00:38	14° ¥ 12'11	
asc. node	11798 Mar 07 00:11	26° ₩ 05'25		min. Earth dist.	11799 Feb 17 21:47	10° ¥ 36′05	0.64828 AU
inferior conj	11798 Mar 08 14:09	24°) 11′43	0°30'29	inferior conj	11799 Feb 20 06:48	8° ₩ 00'31	-0°31'46
minimum elong	11798 Mar 08 13:21	24°) 14′06	0°30'19	minimum elong	11799 Feb 20 07:45	7°) € 57'56	0°31'01
morning rise	11798 Mar 14 12:51	18°) (30′48		asc. node	11799 Feb 21 21:33	6°) 16′59	
direct	11798 Mar 17 12:29	17°) 41'06		morning rise	11799 Feb 26 16:34	2°) 32′37	
morning max el	11798 Mar 23 23:46	21° ₭ 07'38	18°21'25	direct	11799 Mar 01 07:14	1° ¥ 56'57	
	11798 Mar 31 01:08	0° Y		morning max el	11799 Mar 07 16:12	5° ¥ 16′17	17°55'17
desc. node	11798 Apr 09 09:43	14° Ƴ 27'01			11799 Mar 24 08:40	0° Y	
morning set	11798 Apr 12 21:36	20° Ƴ 00'37		morning set	11799 Mar 25 04:36	1° Y ′22'46	
	11798 Apr 19 04:42	0 \circ 8		desc. node	11799 Mar 27 06:21	4° Ƴ 48'57	
superior conj	11798 Apr 28 13:37	14° 8 43'13	-1°55'25	superior conj	11799 Apr 08 03:27	24° Y 07'11	
minimum elong	11798 Apr 28 04:56		1°55'17	minimum elong	11799 Apr 07 18:59	23° Y '33'26	1°21'10
max. Earth dist.	11798 Apr 29 09:49	16° 8 02'10	1.45740 AU		11799 Apr 11 20:36	0°8	
	11798 May 08 08:24	Π °0		max. Earth dist.	11799 Apr 12 05:49	0° 8 36'15	1.45379 AU
evening rise	11798 May 14 11:35	9° Ⅱ 36'29		evening rise	11799 Apr 24 03:39	19° 8 05'09	
greatest brilliancy	11798 May 24 15:39	25° Ⅱ 29'42	-0.8m		11799 May 01 07:18	0°Щ	
	11798 May 27 14:53	0° ©		greatest brilliancy	11799 May 08 16:17	11° Ⅱ 00'37	-0.6m
asc. node	11798 Jun 02 21:47	8°5546'47		evening max el	11799 May 20 09:02	26° Ⅱ 12'41	19°51'14
evening max el	11798 Jun 06 03:29	12° © 27'57	18°59'31	asc. node	11799 May 20 18:55	26° Ⅱ 37'08	
retrograde	11798 Jun 12 22:27	16° © 13'23		_	11799 May 25 12:53	0°€	
evening set	11798 Jun 16 08:43	15° © 05'24		retrograde	11799 May 27 20:39	0°528'38	
inferior conj	11798 Jun 21 20:48	9°520'40	3°09'46	_	11799 May 30 02:10	30°RⅡ	
minimum elong	11798 Jun 21 21:52	9°517'16	3°08'52	evening set	11799 May 31 16:05	29° Ⅱ 04'21	2015:55
min. Earth dist.	11798 Jun 23 12:19	7°515'06	0.66338 AU	inferior conj	11799 Jun 05 23:58	23° Ⅱ 05'47	3°15'27
morning rise	11798 Jun 27 10:22	2°558'20		minimum elong	11799 Jun 05 23:55	23° II 05'55	3°14'40
direct	11798 Jul 03 17:06	0°516'01		min. Earth dist.	11799 Jun 07 00:50	21° I I42'13	0.67611 AU
desc. node	11798 Jul 06 09:58	0°9541'54	0.000	morning rise	11799 Jun 11 07:26	16° Ⅱ 44'49	
morning max el	11798 Jul 16 14:35	7° © 57'14	26°22'32	direct	11799 Jun 17 03:28	14° Ⅱ 09'58	
	11798 Aug 02 18:55	0° N		desc. node	11799 Jun 23 07:04	16° Ⅲ 23'28	25002150
	11798 Aug 20 18:39	0°M)		morning max el	11799 Jun 29 00:40	21° Ⅱ 17'31	25°02'59
morning set	11798 Aug 21 13:26	1° M) 27'31	1 24725 411		11799 Jul 06 13:36	0°©	
max. Earth dist.	11798 Aug 25 11:50	8° m 59'46	1.34735 AU		11799 Jul 27 00:16	0 ° Ω	

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morning set	11799 Aug 03 23:01	13° Ω 34'59			11800 Jul 19 13:15	$0^{\circ}\Omega$	
max. Earth dist.	11799 Aug 07 13:05	20°Ω05'30	1.36778 AU	max. Earth dist.	11800 Jul 20 10:37		1.39066 AU
max. Earth dist.	11799 Aug 12 18:21	0° m)	1.50770710	max. Earth dist.	11000 341 20 10.57	1 00000	1.57000 710
	11777 Aug 12 16.21	Ų ių		superior coni	11800 Jul 28 00:08	15° Ω 14'42	0°50'34
:	11700 A 14 01.57	20 m 2 412 7	0025124	superior conj		15° Ω 34'11	0°59'29
superior conj	11799 Aug 14 01:57	2° m/34'37		minimum elong	11800 Jul 28 04:18		0-39-29
minimum elong	11799 Aug 14 03:36	2° m/42'46	0°25'41	asc. node	11800 Aug 03 15:30	27° Ω 56'30	
asc. node	11799 Aug 16 18:45	7° m 56'43			11800 Aug 04 16:55	0° m)	
evening rise	11799 Aug 22 08:25	19° m 12'22		evening rise	11800 Aug 06 06:05	3° Mp 00'48	
	11799 Aug 27 20:19	0∘ ⊽		evening max el	11800 Aug 22 10:12	29° Mp 16'11	18°45'40
evening max el	11799 Sep 08 11:53	17° ≏ 21'29	19°37'35		11800 Aug 23 04:37	0∘ ⊽	
retrograde	11799 Sep 18 08:18	22° ≏ 15'53		retrograde	11800 Aug 30 18:11	3° ჲ 26'44	
desc. node	11799 Sep 19 04:31	22° ≏ 13'51		evening set	11800 Sep 01 16:21	3° ≙ 14'10	
evening set	11799 Sep 20 05:05	22° ≏ 06'06		desc. node	11800 Sep 06 01:54	1° ≏ 23'16	
inferior conj	11799 Sep 29 00:16	18° ഫ 02'03	-3°01'36		11800 Sep 08 05:03	30°R, Mp	
minimum elong	11799 Sep 28 16:20	18° ≏ 14'30	2°58'34	inferior conj	11800 Sep 09 18:54	28° m 52'03	-1°09'46
min. Earth dist.	11799 Oct 01 06:32	16° ≏ 36'49	0.55371 AU	minimum elong	11800 Sep 09 16:00	28° m 57'21	1°08'43
morning rise	11799 Oct 07 01:40	13° ₽ 39'32		min. Earth dist.	11800 Sep 12 21:27	26° m 36'22	0.56933 AU
direct	11799 Oct 12 01:20	12° - 44′23		morning rise	11800 Sep 17 12:17	23° m 51'48	
morning max el	11799 Oct 25 22:37	19° ჲ 39'42	24°54'18	direct	11800 Sep 23 06:03	22° m) 31'41	
	11799 Nov 03 16:33	0°M		morning max el	11800 Oct 07 12:38	29° m 56'43	26°27'41
asc. node	11799 Nov 12 19:58	14°M51'03		morning max er	11800 Oct 07 14:00	0∘ ⊽	20 27 11
ase. Houe	11799 Nov 20 10:16	0° ∡ ⊓			11800 Oct 28 12:55	0° m .	
morning got		1° x ¹ 13'43		aga mada		4°ML06'38	
morning set	11799 Nov 21 00:04	1°×'13'43		asc. node	11800 Oct 30 16:45		
	11700) 27 10 20	160 707144	1020155	morning set	11800 Nov 05 10:33	15°M51'40	
superior conj	11799 Nov 27 19:28	16° ₹ 07'44	1°38'55		11800 Nov 11 20:59	0° ∡ ¹	
minimum elong	11799 Nov 27 19:13	16° ∡ ¹06′26	1°39'40			_	
max. Earth dist.	11799 Nov 29 14:50	20° ∡ 05′02	1.32269 AU	superior conj	11800 Nov 12 06:34	0° ≯ 53′18	1°34'48
	11799 Dec 04 06:33	0°ಕ		minimum elong	11800 Nov 12 05:20	0° ∡ ¹46'27	1°35'22
evening rise	11799 Dec 05 01:57	1° る 40'06		max. Earth dist.	11800 Nov 12 21:52	2° ∡ 18'27	1.31552 AU
desc. node	11799 Dec 16 02:10	22° る 23'36		evening rise	11800 Nov 19 04:23	15° ∡ 57'40	
	11799 Dec 20 17:32	0° ≈			11800 Nov 26 05:10	8°0	
evening max el	11800 Jan 07 05:24	22° ≈ 25'27	27°32'07	desc. node	11800 Dec 02 23:13	11° る 51'38	
retrograde	11800 Jan 21 00:24	29° ≈ 46'30			11800 Dec 15 21:42	0° ≈	
evening set	11800 Jan 27 23:31	27° ≈ 22'09		evening max el	11800 Dec 20 12:14	4° ≈ 51'00	27°14'25
min. Earth dist.	11800 Jan 31 17:31	24°≈15'12	0.62954 AU	retrograde	11801 Jan 03 10:13	12° ≈ 05'15	
inferior conj	11800 Feb 03 13:07	21° ≈ 29'59		evening set	11801 Jan 10 08:17	9° ≈ 57'03	
minimum elong	11800 Feb 03 16:32	21° ≈ 21'35		min. Earth dist.	11801 Jan 14 02:42	7° ≈ 11'59	0.60865 AU
asc. node	11800 Feb 08 18:51	17°≈07'22		inferior conj	11801 Jan 17 05:41	4°≈30'35	
morning rise	11800 Feb 10 11:56			minimum elong	11801 Jan 17 11:57	4°≈17'04	
direct	11800 Feb 12 19:32	15°≈52'59		minimum ciong	11801 Jan 23 17:28	30°R₹	2 30 04
		13 ≈32 39 19°≈15'28	17946120	mamina risa		30 KO 29° 石 38'13	
morning max el	11800 Feb 19 09:53		17°46'38	morning rise	11801 Jan 24 18:27	29 3 38 13 29° る 19'46	
	11800 Feb 27 08:23	0°) {		direct	11801 Jan 26 21:29		
morning set	11800 Mar 07 12:50	13°) € 57'39		asc. node	11801 Jan 26 16:06	29° る 19'59	
desc. node	11800 Mar 14 02:58	25° ∺ 21'00			11801 Jan 29 23:23	0° ≈	
	11800 Mar 16 20:51	0° Υ		morning max el	11801 Feb 03 01:28	2° ≈ 55'28	17°56'16
				morning set	11801 Feb 18 15:52	27° ≈ 24'41	
superior conj	11800 Mar 19 14:10	4° Υ 32'28			11801 Feb 20 01:48	0° ∀	
minimum elong	11800 Mar 19 10:00	4° Ƴ 15'14	0°40'14	desc. node	11801 Feb 28 23:36	15° ¥ 58'39	
max. Earth dist.	11800 Mar 26 00:00	14° Ƴ 58'25	1.44312 AU				
evening rise	11800 Apr 03 15:28	28° Y ′32'05		superior conj	11801 Mar 01 01:34	16° ∺ 07'18	-0°00'39
	11800 Apr 04 14:21	$6^{\circ}B$		minimum elong	11801 Mar 01 01:32	16°) €07'07	0°00'22
	11800 Apr 25 02:44	$\Pi^{\circ}0$		behind sun begin	11801 Feb 28 17:24	15°) 31′38	
evening max el	11800 May 03 08:50	9° Ⅱ 58'27	20°56'44	behind sun end	11801 Mar 01 09:39	16°) 42′30	
asc. node	11800 May 07 16:08	13° Ⅱ 32'43		max. Earth dist.	11801 Mar 08 13:50	28° ¥ 51'06	1.42655 AU
retrograde	11800 May 11 19:27	14° I I53'58		man. Darun diot.	11801 Mar 09 06:36	0° Υ	12000
evening set	11800 May 16 00:49	13° Ⅲ 13'31		evening rise	11801 Mar 14 13:51	8° Y 32'16	
inferior conj	11800 May 21 07:12	7° Ⅱ 02'42	3°09'03	evening rise	11801 Mar 28 18:04	0°8	
•							22012121
minimum elong	11800 May 21 06:10	7° Ⅱ 06'15	3°08'15	evening max el	11801 Apr 16 03:19	23° 8 44'37	22°12'21
min. Earth dist.	11800 May 21 18:16	6° Ⅱ 24'20	0.68418 AU	asc. node	11801 Apr 24 13:23	29° 8 17'19	
morning rise	11800 May 26 11:19	0° Ⅱ 45'34		retrograde	11801 Apr 25 17:04	29° 8 23'40	
	11800 May 27 09:38	30° ₹ 8		evening set	11801 Apr 30 09:10	27° 8 27'52	
direct	11800 May 31 18:45	28° 8 25'27		inferior conj	11801 May 05 16:19	21° 8 07'06	2°51'59
	11800 Jun 05 15:49	Π °0		minimum elong	11801 May 05 14:34	21° 8 13'12	2°51'07
desc. node	11800 Jun 10 04:03	3° Ⅲ 32′10		min. Earth dist.	11801 May 05 14:27	21° 8 13'37	0.68757 AU
morning max el	11800 Jun 11 10:41	4° Ⅱ 46'54	23°34'12	morning rise	11801 May 10 19:49	14° 8 55'20	
	11800 Jun 30 20:18	0 \circ \mathfrak{S}		direct	11801 May 15 14:01	12° 8 54'25	
morning set	11800 Jul 16 11:36	24° 5 644'39		morning max el	11801 May 24 23:00	18° 8 24'03	22°05'30

desc. node	11801 May 28 00:57	21° 8 44'13		desc. node	11802 May 14 21:48	10° 8 42'37	
dese. Hode	11801 Jun 03 14:34	0°Ⅱ		dese. Hode	11802 May 14 21:48	0°Ⅱ	
	11801 Jun 23 23:10	0.2e		morning set	11802 Jun 06 09:51	13° Ⅱ 42'57	
morning set	11801 Jun 26 22:55	4°9645'55		max. Earth dist.	11802 Jun 14 16:22		1.43329 AU
max. Earth dist.	11801 Jul 02 10:22	13°9544'53	1.41337 AU		11802 Jun 16 15:19	0°©	
superior conj	11801 Jul 10 04:25	27° © 04'55	-1°32'22	superior conj	11802 Jun 21 10:29	7°956'22	-1°58'58
minimum elong	11801 Jul 10 10:46	27° © 33'02	1°32'19	minimum elong	11802 Jun 21 16:49	8° 5 22'56	1°59'17
	11801 Jul 11 19:46	$0^{\circ}\Omega$		evening rise	11802 Jul 03 12:59	28° © 52'36	
evening rise	11801 Jul 20 17:06	16° Ω 17'58			11802 Jul 04 04:14	0 $^{\circ}$ Ω	
asc. node	11801 Jul 21 12:19	17° Ω 47'11		asc. node	11802 Jul 08 09:10	7° Ω 23'55	
	11801 Jul 28 06:51	0° m		evening max el	11802 Jul 20 06:24	24° Ω 55'24	18°03'47
evening max el	11801 Aug 05 17:44	11° m 51'02	18°14'52	retrograde	11802 Jul 26 20:06	28° Ω 18'14	
retrograde	11801 Aug 12 23:03	15° m 30'20		evening set	11802 Jul 29 09:00	27° Ω 47'41	
evening set	11801 Aug 15 03:54	15° m) 10'36		inferior conj	11802 Aug 04 23:34	22° Ω 45′28	1°40'28
inferior conj	11801 Aug 22 11:25	10° m) 28'07	0°27'13	minimum elong	11802 Aug 05 02:05	22° Ω 39'15	1°39'09
minimum elong	11801 Aug 22 12:20	10° m/26'10	0°26'33	min. Earth dist.	11802 Aug 08 02:03	19° Ω 43'05	0.61293 AU
desc. node	11801 Aug 23 23:15	9° Mp 10'56	0.50011.477	desc. node	11802 Aug 10 20:37	17° Ω 21'10	
min. Earth dist.	11801 Aug 25 19:31	7° Mp 37'54	0.59011 AU	morning rise	11802 Aug 11 16:33	16° Ω 45'41	
morning rise	11801 Aug 29 17:20	4° Mp 53'11		direct	11802 Aug 18 08:05	14° Ω 30′21	27957116
direct	11801 Sep 05 01:08 11801 Sep 19 09:44	3° Mp 04'09	27921110	morning max el	11802 Sep 01 13:33	22° Ω 29'30	2/-3/16
morning max el	11801 Sep 19 09:44 11801 Oct 04 07:02	10° Mp 50'54 0° <u>Ω</u>	2/-3119		11802 Sep 08 04:45 11802 Sep 27 11:16	0° ⴀ	
asc. node	11801 Oct 04 07.02 11801 Oct 17 13:30	0 = 23° £ 43'24		asc. node	11802 Sep 27 11:10 11802 Oct 04 10:14	0 = 13° £ 34'15	
morning set	11801 Oct 17 13:30 11801 Oct 20 18:00	0°M18'12		morning set	11802 Oct 04 10:14 11802 Oct 04 20:29	13 ⊆ 34 13 14° ⊆ 27'03	
morning set	11801 Oct 20 14:33	0°M		max. Earth dist.	11802 Oct 04 20:29	26° £ 40'44	1.31627 AU
	11001 Oct 20 14.33	O IIG		max. Larur dist.	11002 001 10 13.34	20 - 10 11	1.51027 AO
superior conj	11801 Oct 27 18:16	15°M37'40	1°24'59	superior conj	11802 Oct 12 04:42	0°M14'15	1°09'40
minimum elong	11801 Oct 27 16:20	15°M26'51	1°25'16	minimum elong	11802 Oct 12 02:27	0°ML01'50	1°09'39
max. Earth dist.	11801 Oct 27 06:50	14°MJ33'56	1.31335 AU	S	11802 Oct 12 02:07	0°M₊	
evening rise	11801 Nov 03 11:49	0° ∡ ′27′14		evening rise	11802 Oct 18 22:09	15°ML02'10	
	11801 Nov 03 06:44	0° ∡ ⊓			11802 Oct 26 06:37	0° ∡ ⊓	
	11801 Nov 19 09:30	ರ°0		desc. node	11802 Nov 06 17:35	18° ∡ ³37'49	
desc. node	11801 Nov 19 20:22	0° る 41'34		evening max el	11802 Nov 14 03:48	27° ∡ 12'37	25°00'20
evening max el	11801 Dec 02 12:05	16° る 27'19	26°22'21		11802 Nov 17 10:01	ರ∘ರ	
retrograde	11801 Dec 16 10:42	23° る 33'12		retrograde	11802 Nov 27 23:33	4° る 08'19	
evening set	11801 Dec 22 22:53	21° る 50'19		evening set	11802 Dec 03 14:44	2° る 57'07	
min. Earth dist.	11801 Dec 27 01:36	19° る 14'38	0.58728 AU	min. Earth dist.	11802 Dec 08 15:45	0° る 14'04	0.56782 AU
inferior conj	11801 Dec 30 05:01	16° පි 53'18			11802 Dec 09 00:34	30°Ŗ ⋌ ¹	
minimum elong	11801 Dec 30 13:17	16° る 37'46	4°15'24	inferior conj	11802 Dec 11 08:15	28° ∡ ¹28'54	
morning rise	11802 Jan 07 06:29	12° る 22'31		minimum elong	11802 Dec 11 15:15	28° 🗷 17'27	5°20'12
direct	11802 Jan 09 08:54	12°る07'24		morning rise	11802 Dec 19 17:58	24° 🗷 19'54	
asc. node	11802 Jan 13 13:17	13°る10'52 16°る06'05	10025120	direct	11802 Dec 22 02:07	24° × 704'19	
morning max el	11802 Jan 17 11:15 11802 Jan 27 04:33	0°≈	18°25'38	asc. node morning max el	11802 Dec 31 10:26 11802 Dec 31 11:10	28° 🖈 33'30 28° 🖈 35'17	10016142
morning set	11802 Jan 27 04:33 11802 Feb 02 08:07	0 ≈ 11°≈27'31		morning max er	11803 Jan 01 20:01	28 メ ・33 17	19 10 42
morning set	11802100 02 08.07	11 2/31		morning set	11803 Jan 17 09:19	25°る53'14	
superior conj	11802 Feb 11 10:54	28° ≈ 42'52	0°34'02	morning set	11803 Jan 19 10:44	0°≈	
minimum elong	11802 Feb 11 13:12	28°≈53'25	0°34'08			¥ -	
S	11802 Feb 12 03:43	0°) €		superior conj	11803 Jan 25 13:25	12° ≈ 05'24	1°01'17
desc. node	11802 Feb 15 20:17	6° ¥ 38'32		minimum elong	11803 Jan 25 16:22	12° ≈ 19'41	1°01'30
max. Earth dist.	11802 Feb 18 22:43	12°) 03′08	1.40600 AU	max. Earth dist.	11803 Feb 01 04:56	24° ≈ 34'24	1.38377 AU
evening rise	11802 Feb 23 07:50	19°) 25′58		desc. node	11803 Feb 02 17:00	27° ≈ 16'34	
	11802 Mar 01 21:49	0° Y			11803 Feb 04 05:58	0° ∀	
	11802 Mar 23 01:53	0° 8		evening rise	11803 Feb 04 23:05	1°) (14′46	
evening max el	11802 Mar 29 18:22	7° 8 33'15	23°32'51		11803 Feb 23 03:47	0° Y	
retrograde	11802 Apr 09 12:01	13° 8 52'59		evening max el	11803 Mar 12 08:04		24°51'49
asc. node	11802 Apr 11 10:41	13° 8 35'19		retrograde	11803 Mar 24 03:02	28° Y 16'31	
evening set	11802 Apr 14 15:36	11° 8 43'19		asc. node	11803 Mar 29 08:01	26° Y 16'45	
min. Earth dist.	11802 Apr 19 11:14	6° 8 04'33	0.68644 AU	evening set	11803 Mar 29 18:33	25° Y ′55'12	
inferior conj	11802 Apr 20 01:26		2°25'02	min. Earth dist.	11803 Apr 03 06:21	20° Y ′52′00	0.68092 AU
minimum elong	11802 Apr 19 23:18	5° 8 23'07	2°24'06	inferior conj	11803 Apr 04 08:40	19° ℃ 25'02	1°48'22
:·	11802 Apr 24 08:30	30° ₹ Υ		minimum elong	11803 Apr 04 06:35	19° ℃ 31'55	1°47'31
morning rise	11802 Apr 25 06:57	29° Y 10'40		morning rise	11803 Apr 09 18:50	13° Y 28'01	
direct	11802 Apr 29 12:08	27° Y 30'55		direct	11803 Apr 13 11:43	12° Υ 09'15 16° Υ 10'47	10026120
morning max el	11802 May 05 06:02 11802 May 07 16:46	0°8 2°811'31	20044125	morning max el desc. node	11803 Apr 20 18:06 11803 May 01 18:36	0° 8 14'52	19°36'38
morning max ci	11002 Way 0/ 10.40	2 01131	20 TT 33	desc. Houc	11005 Iviay 01 10.30	0 01432	

greatest brilliancy	11803 May 01 14:28 11803 May 03 10:51	0°8 2°841'23	-0.6m	morning max el	11804 Apr 02 19:04 11804 Apr 03 02:54	0° Υ 0° Υ 18'52	18°44'11
morning set	11803 May 16 09:48 11803 May 21 09:54	22° ႘ 15'53 0° 川		desc. node	11804 Apr 17 15:18 11804 Apr 23 22:42	20° Ƴ 11'22 0° ႘	
max. Earth dist.	11803 May 28 05:34	10° ∏ 41'11	1.44806 AU	morning set max. Earth dist.	11804 Apr 24 21:20 11804 May 09 23:45	1° 8 28'25 25° 8 03'22	1.45610 AU
superior conj	11803 Jun 01 16:39	17° Ⅱ 47'35	-2°12'43				
minimum elong	11803 Jun 01 18:30	17° Ⅱ 55′01	2°13'26	superior conj	11804 May 11 04:02	26° 8 54'03	-2°07'34
	11803 Jun 09 04:42	0 \circ		minimum elong	11804 May 10 22:20	26° 8 31'45	2°07'57
evening rise	11803 Jun 15 12:50	10° © 33'58			11804 May 13 03:28	Π °0	
asc. node	11803 Jun 25 06:07	26° © 41'33		evening rise	11804 May 26 12:51	21° Ⅱ 14'49	
	11803 Jun 27 09:18	0 $^{\circ}$ Ω			11804 May 31 23:48	0 \circ	
evening max el	11803 Jul 03 20:32	8° Ω 20'12	18°11'23	greatest brilliancy	11804 Jun 02 06:01	2° 5 00'37	-0.9m
retrograde	11803 Jul 10 05:02	11° Ω 41'13		asc. node	11804 Jun 11 03:08	15° © 32'34	
evening set	11803 Jul 13 02:08	10° Ω 57'13		evening max el	11804 Jun 16 09:00	21° © 56'42	18°36'56
inferior conj	11803 Jul 19 03:25	5° Ω 36'56		retrograde	11804 Jun 22 21:43	25° © 29'40	
minimum elong	11803 Jul 19 05:56	5° Ω 29'57		evening set	11804 Jun 26 03:04	24° © 30'40	
min. Earth dist.	11803 Jul 21 17:53		0.63491 AU	inferior conj	11804 Jul 01 18:56	18°954'10	3°00'07
	11803 Jul 24 13:33	30°₹©		minimum elong	11804 Jul 01 20:37	18°549'00	2°59'05
morning rise	11803 Jul 25 08:07	29°S22'25		min. Earth dist.	11804 Jul 03 18:52	16°528'11	0.65408 AU
desc. node	11803 Jul 28 17:57	27°524'47		morning rise	11804 Jul 07 13:16	12°532'52	
direct	11803 Aug 01 00:25	26° © 48'44 0° Ω		direct	11804 Jul 14 00:38	9°550'59	
morning max el	11803 Aug 09 07:44 11803 Aug 14 22:11	0°37 4° Ω 50'29	27945112	desc. node	11804 Jul 14 15:12 11804 Jul 27 09:04	9° © 52'17 17° © 43'52	27900114
morning max er	11803 Aug 14 22.11 11803 Sep 02 21:53	4 8 630 29 0° M)	27 43 13	morning max el	11804 Jul 27 09.04 11804 Aug 06 15:36	17 943 32 0°Ω	27 00 14
morning sat	11803 Sep 02 21:33	28° Mg 12'48			11804 Aug 00 13:30 11804 Aug 25 20:05	0°m)	
morning set	11803 Sep 18 13:43 11803 Sep 19 13:03	0° ⊽		morning set	11804 Aug 23 20:03 11804 Sep 01 00:58	11°Mg 28'00	
asc. node	11803 Sep 19 13.03 11803 Sep 21 06:57	ა 3° 34'25		max. Earth dist.	11804 Sep 01 00.38 11804 Sep 05 08:04	19° Mp 56'40	1.33759 AU
max. Earth dist.	11803 Sep 21 00:37 11803 Sep 23 15:27	8° ⊆ 30'26	1.32438 AU	asc. node	11804 Sep 07 03:39	23° m/39'12	1.33739 AU
	-				-		0022120
superior conj	11803 Sep 26 11:56	14° £ 37'44	0°49'01	superior conj	11804 Sep 09 13:46	28° Mp 41'46	
minimum elong	11803 Sep 26 09:54	14° £ 26'43	0°48'46	minimum elong	11804 Sep 09 12:35	28° ™ 35'35 0° ₽	0°23'01
evening rise	11803 Oct 03 09:32 11803 Oct 03 13:43	29° £ 37'34 0° ™		avanina rica	11804 Sep 10 04:37	0 <u>≈</u> 14° Ω 07'38	
	11803 Oct 03 13.43 11803 Oct 20 06:27	0° ⊼ ¹		evening rise	11804 Sep 16 20:01 11804 Sep 24 19:41	0°M	
desc. node	11803 Oct 20 00:27	5° × ⁷ 20'15		evening max el	11804 Oct 07 03:58	17°M30'46	21°41'57
evening max el	11803 Oct 26 14:19	7° ∡ 22'31	23°20'59	desc. node	11804 Oct 10 12:13	20°M22'43	21 1137
retrograde	11803 Nov 08 23:21	14°×7'02'09	23 2009	retrograde	11804 Oct 19 13:05	23°M40'08	
evening set	11803 Nov 13 06:51	13° x ⁷ 21'46		evening set	11804 Oct 22 10:47	23°M21'00	
min. Earth dist.	11803 Nov 20 00:04	10° ∡ 12'50	0.55315 AU	inferior conj	11804 Oct 31 09:21	19°M25'04	-5°24'51
inferior conj	11803 Nov 21 15:32	9° ∡ 15'18	-5°50'53	minimum elong	11804 Oct 31 01:40	19°M35'49	5°23'01
minimum elong	11803 Nov 21 16:01	9° ∡ 14'36	5°50'10	min. Earth dist.	11804 Oct 31 06:37	19°M28'54	0.54599 AU
morning rise	11803 Nov 30 02:53	5° х 23′47		morning rise	11804 Nov 08 17:41	15°M37'21	
direct	11803 Dec 03 00:24	5° ₹ 03'33		direct	11804 Nov 12 09:37	15°ML08'10	
morning max el	11803 Dec 13 21:53	10° ∡ 14′00	20°30'45	morning max el	11804 Nov 24 19:02	21°Ml02'04	22°05'49
asc. node	11803 Dec 18 07:31	15° ∡ 13′08			11804 Dec 02 06:34	0° ∡ ¹	
	11803 Dec 27 09:14	0°ಕ		asc. node	11804 Dec 04 04:32	2° ≯ 53′28	
morning set	11804 Jan 01 16:19	10° る 32'48		morning set	11804 Dec 16 02:43	25° ∡ 19'26	
		_			11804 Dec 18 07:38	0°ಕ	
superior conj	11804 Jan 09 04:39		1°20'49		110045 22 215	100-70	1022104
minimum elong	11804 Jan 09 07:11	26° る 15'30	1°21'18	superior conj	11804 Dec 23 04:55	10° る 24'26	1°33'04
P d F	11804 Jan 11 03:48	0° ≈	1 2 (220 4 11	minimum elong	11804 Dec 23 06:29	10°る32'41	1°33'46
max. Earth dist.	11804 Jan 14 12:52	6°≈37'21	1.36229 AU	max. Earth dist.	11804 Dec 27 02:32	18°る30'08	1.34357 AU
evening rise	11804 Jan 18 09:21	13°≈51'52		evening rise	11804 Dec 31 11:08	27° る 08'35	
desc. node	11804 Jan 20 13:46	17° ≈ 49'06		1 1-	11805 Jan 01 23:04	0°≈	
	11804 Jan 27 17:05	0° ℋ 0° Ƴ		desc. node	11805 Jan 06 10:36 11805 Jan 20 00:44	8°≈11'56 0°) €	
evening max el	11804 Feb 18 00:05 11804 Feb 22 21:37	5° Υ 14'36	26°02'02	evening max el	11805 Jan 20 00:44 11805 Feb 04 11:08	0° X 18° ¥ 55'54	26°56'11
retrograde	11804 Feb 22 21:37 11804 Mar 06 13:10	12° Υ 27'46	20 02 02	retrograde	11805 Feb 04 11:08 11805 Feb 17 17:43	26° ¥ 19'36	20 30 11
evening set	11804 Mar 12 16:21	9° Υ 58'01		evening set	11805 Feb 17 17.43 11805 Feb 24 07:08	20 X 1930 23° X 46'21	
asc. node	11804 Mar 15 05:23	7° Υ 28'20		min. Earth dist.	11805 Feb 28 06:46	23 X 40 21 19° X 52'08	0.65767 AU
min. Earth dist.	11804 Mar 16 21:34	5° Υ 29'56	0.67124 AU	inferior conj	11805 Mar 02 09:16	19 X 32 08 17° ¥ 26'47	0.03707 AU 0°05'18
inferior conj	11804 Mar 18 12:00	3° Υ 30'13	1°01'50	minimum elong	11805 Mar 02 09:07	17° H 2047	0°05'29
minimum elong	11804 Mar 18 10:32	3° Υ 34'46	1°01'19	transit middle	11805 Mar 02 09:07	17° X 27'15	0°05'29
	11804 Mar 21 11:55	30° ₹		transit begin	11805 Mar 02 06:19	17°) (35'18	
morning rise	11804 Mar 24 05:24	27°) 43'01		transit end	11805 Mar 02 11:54	17°) 19'11	
direct	11804 Mar 27 11:01	26°) 43′28		asc. node	11805 Mar 02 02:44	17°) 45'41	

morning rise	11805 Mar 08 12:25	11° ¥ 51′24		evening set	11806 Feb 07 12:36	7° 升 12′27	
direct	11805 Mar 11 08:03	11°) €08'08		min. Earth dist.	11806 Feb 11 08:00	3°) 49′27	0.64061 AU
morning max el	11805 Mar 17 17:23	14°) 30′03	18°08'18	inferior conj	11806 Feb 13 21:52	1° ₩ 07'56	-1°01'03
	11805 Mar 29 00:24	$0^{\circ}\mathbf{Y}$		minimum elong	11806 Feb 13 23:46	1° ¥ 02'56	0°59'49
desc. node	11805 Apr 04 11:58	10° Y 25'40		Č	11806 Feb 15 00:09	30°R ≈	
morning set	11805 Apr 05 11:41	12° Υ '01'40		asc. node	11806 Feb 17 00:04	28°≈06'15	
morning set	-	0°8					
	11805 Apr 16 16:53	0.0		morning rise	11806 Feb 20 13:00	25°≈46'46	
				direct	11806 Feb 23 00:18	25°≈16'07	
superior conj	11805 Apr 20 11:46	5° 8 58'06		morning max el	11806 Mar 01 10:46	28° ≈ 35'46	17°49'27
minimum elong	11805 Apr 20 02:23	5° 8 21'13			11806 Mar 02 18:40	0° ∀	
max. Earth dist.	11805 Apr 22 19:35	9° 8 36'50	1.45674 AU	morning set	11806 Mar 18 06:06	23°) ₹56′23	
	11805 May 05 22:05	Π $^{\circ}0$			11806 Mar 21 20:11	0 ° Υ	
evening rise	11805 May 06 14:10	1° Ⅱ 02'23		desc. node	11806 Mar 22 08:34	0° Y 52'01	
greatest brilliancy	11805 May 18 19:25	19° ∏ 48'39	-0.7m				
	11805 May 25 22:35	0°ಅ		superior conj	11806 Mar 31 09:22	15° Ƴ 45'18	-1°04'53
asc. node	11805 May 29 00:14	3°548'04		minimum elong	11806 Mar 31 02:31	15° Ƴ 17'37	1°04'06
evening max el	11805 May 30 17:27	5°939'04	19°19'34	max. Earth dist.	11806 Apr 05 14:29		1.45001 AU
retrograde	11805 Jun 06 18:44	9°936'35	1, 1, 5,	max. Earth dist.	11806 Apr 09 08:48	0°8	1.10001710
evening set	11805 Jun 10 08:45	8° © 21'43		arranina rica	-	10° 8 24'19	
Č			2012146	evening rise	11806 Apr 16 02:19	10 O 24 19 0° Ⅱ	
inferior conj	11805 Jun 15 18:41	2°530'41	3°13'46		11806 Apr 29 02:47		20017120
minimum elong	11805 Jun 15 19:16	2° © 28'45	3°12'56	evening max el	11806 May 13 20:31	19° Ⅲ 23'56	20°1/39
min. Earth dist.	11805 Jun 17 03:50	0°5542'21	0.66932 AU	asc. node	11806 May 15 21:23	21° Ⅱ 16'40	
	11805 Jun 17 17:05	30°RⅡ		retrograde	11806 May 21 17:28	23° Ⅱ 56'14	
morning rise	11805 Jun 21 05:17	26° Ⅱ 08'17		evening set	11806 May 25 16:55	22° Ⅲ 25′15	
direct	11805 Jun 27 07:38	23° Ⅱ 28'13		inferior conj	11806 May 30 23:51	16° Ⅱ 21'17	3°14'06
desc. node	11805 Jul 01 12:22	24° Ⅲ 30′40		minimum elong	11806 May 30 23:22	16° Ⅲ 22'55	3°13'20
	11805 Jul 08 20:41	0°ಲಾ		min. Earth dist.	11806 May 31 18:50	15° Ⅱ 16′29	0.68005 AU
morning max el	11805 Jul 09 19:52	0°957'31	25°50'29	morning rise	11806 Jun 05 05:32	10° Ⅲ 01′28	
3	11805 Jul 31 15:33	$0^{\circ}\Omega$		direct	11806 Jun 10 20:21	7° Ⅱ 31'56	
morning set	11805 Aug 14 20:30	24° Ω 03'43		desc. node	11806 Jun 18 09:26	10° I I52'07	
morning set	11805 Aug 18 00:50	0°m		morning max el	11806 Jun 22 05:43	14° Ⅱ 21'54	24025147
max. Earth dist.	11805 Aug 18 00:30	~	1.35559 AU	morning max ci	11806 Jul 04 23:31	0°95	24 23 47
max. Earm dist.	11003 Aug 10 14.13	1 1005 50	1.33339 AU			0°€ 0°€	
	11005 1 01 05 00	100 10100	0000115		11806 Jul 24 12:25		
superior conj	11805 Aug 24 07:32	12° Tp 19'39		morning set	11806 Jul 27 21:51	5° Ω 48'45	
minimum elong	11805 Aug 24 07:57	12° m 21'45	0°06'58	max. Earth dist.	11806 Jul 31 12:44	12° Ω 13'44	1.37726 AU
behind sun begin	11805 Aug 24 02:22	11° m 53'34				_	
behind sun end	11805 Aug 24 13:32	12° Mp 49'59		superior conj	11806 Aug 07 14:03	25° Ω 23'58	
asc. node	11805 Aug 25 00:21	13° m 44'48		minimum elong	11806 Aug 07 16:44	25° Ω 36'55	0°39'55
evening rise	11805 Sep 01 03:33	28° Mp 26'41			11806 Aug 09 22:50	0° m y	
	11805 Sep 01 21:44	0ಂ ರ		asc. node	11806 Aug 11 21:03	3° m 47'53	
evening max el	11805 Sep 19 05:18	28° ≏ 11'48	20°17'11	evening rise	11806 Aug 16 05:40	12° m 28'39	
	11805 Sep 21 05:06	o° m ₊			11806 Aug 25 15:14	0∘ ত	
desc. node	11805 Sep 27 09:36	3°M16'05		evening max el	11806 Sep 01 20:46	9° ≙ 41'00	19°12'58
retrograde	11805 Sep 30 01:30	3°M35'05		retrograde	11806 Sep 11 00:45	14° ≏ 15'11	
evening set	11805 Oct 02 02:11	3°M24'36		evening set	11806 Sep 12 21:02	14° ≏ 04'52	
evening sec	11805 Oct 10 04:37	30°R ≏		desc. node	11806 Sep 14 07:00	13° ≏ 43'44	
inferior conj	11805 Oct 10 04:57	29° £ 27'18	4002142	inferior conj	11806 Sep 21 09:57	9° £ 54'16	2012120
·					-		
minimum elong	11805 Oct 10 17:04	29° Ω 41'46		minimum elong	11806 Sep 21 04:07	10° Ω 04'01	
min. Earth dist.	11805 Oct 12 14:55	28° Ω 34'09	0.54816 AU	min. Earth dist.	11806 Sep 24 02:58	8° 亞 06'00	0.55950 AU
morning rise	11805 Oct 19 07:09	25° Ω 22'13		morning rise	11806 Sep 29 08:24	5° 2 15'59	
direct	11805 Oct 23 19:08	24° ≏ 38'29		direct	11806 Oct 04 16:16	4° ≏ 10'39	
	11805 Nov 04 22:14	0° M		morning max el	11806 Oct 18 18:30	11° ≏ 20'12	25°36'38
morning max el	11805 Nov 06 07:15	1° M .14'11	23°53'05		11806 Nov 02 01:40	0° M	
asc. node	11805 Nov 21 01:28	21°M19'27		asc. node	11806 Nov 07 22:18	10° M 19'46	
	11805 Nov 25 16:53	0° ∡ 7		morning set	11806 Nov 15 01:57	24°M49'02	
morning set	11805 Nov 30 14:30	10° ∡ 06′24			11806 Nov 17 11:16	0° ∡ ¹	
superior conj	11805 Dec 07 11:13	25° ₹ 00'57	1°38'35	superior conj	11806 Nov 21 21:11	9° ∡ ¹45'14	1°37'53
minimum elong	11805 Dec 07 11:38	25° ₹ 03'12		minimum elong	11806 Nov 21 20:29		
violig	11805 Dec 09 18:42	0°る		max. Earth dist.	11806 Nov 23 04:10	12° × ⁷ 36'14	1.31906 AU
max. Earth dist.	11805 Dec 09 18:42 11805 Dec 09 23:52	0° る 27'34	1.32894 AU	evening rise	11806 Nov 28 23:24	25° × 03'47	1.51700 AU
		0 82734 10° 8 55'05	1.52074 AU	Creming 1150		23 x ·034/ 0° る	
evening rise	11805 Dec 15 00:49			J 1	11806 Dec 01 09:27		
desc. node	11805 Dec 24 07:30	28° る 19'08		desc. node	11806 Dec 11 04:30	18° る 03'57	
	11805 Dec 25 06:52	0° ≈			11806 Dec 18 20:13	0° ≈	
	11806 Jan 15 16:54	0° ∀		evening max el	11806 Dec 31 09:37	15° ≈ 08'12	27°28'46
evening max el	11806 Jan 17 23:44	2°) 17'43	27°27'16	retrograde	11807 Jan 14 06:36	22° ≈ 26'48	
retrograde	11806 Jan 31 15:55	9°) 42′22		evening set	11807 Jan 21 05:55	20° ≈ 08′27	

min. Earth dist.	11807 Jan 24 23:35	17°≈11'36	0.62084 AU		11808 Jan 06 21:32	30°Rる	
inferior conj	11807 Jan 27 22:46	17 ≈1130 14°≈26'14		min. Earth dist.	11808 Jan 07 04:23	-	0.59955 AU
minimum elong	11807 Jan 28 03:23	14°≈15'28		inferior conj	11808 Jan 10 08:29	27°る12'08	
asc. node	11807 Feb 03 21:22	9°≈27'21	2 13 17	minimum elong	11808 Jan 10 15:48	26° ප 57'13	
morning rise	11807 Feb 04 03:29	9°≈22'08		morning rise	11808 Jan 18 02:55	22° る 28'23	3 31 22
direct	11807 Feb 04 03:29	9°≈00'17		direct	11808 Jan 20 05:12	22° ප 11'41	
morning max el	11807 Feb 13 03:56	12°≈27'32	17°48'19	asc. node	11808 Jan 21 18:36	22° る 21'17	
morning max er	11807 Feb 25 01:11	0° ∀	17 40 17	morning max el	11808 Jan 27 17:28	25°පි55'58	18°06'11
morning set	11807 Feb 28 23:04	6°) 55′24		morning max or	11808 Jan 31 04:48	0°≈	10 00 11
desc. node	11807 Mar 09 05:10	21° H 26'26		morning set	11808 Feb 12 08:24	20°≈39'55	
dese. Hode	11007 With 07 03.10	21 /(2020		morning set	11808 Feb 17 08:50	0° ∀	
superior conj	11807 Mar 12 06:32	26°) 39'37	-0°23'20		11000160 17 00.50	Ο //	
minimum elong	11807 Mar 12 00:32	26° X 30'11		superior conj	11808 Feb 22 03:50	8°) 41'49	0°14'56
minimum clong	11807 Mar 14 06:13	0° Υ	0 22 32	minimum elong	11808 Feb 22 05:01	8°) (41'4)	0°15'05
max. Earth dist.	11807 Mar 19 06:42	8°Υ15'02	1.43673 AU	behind sun begin	11808 Feb 22 03:01 11808 Feb 22 02:29	8°) (35'48	0 13 03
evening rise	11807 Mar 19 00:42	20° Υ 01'22	1. 4 30/3 AO	behind sun end	11808 Feb 22 07:33	8°) 58'24	
evening rise	11807 Apr 02 05:38	0°8		desc. node	11808 Feb 24 01:50	12° H 05'24	
		0°U				21°) 53'24	1.41824 AU
	11807 Apr 23 20:16		21929105	max. Earth dist.	11808 Feb 29 18:54		1.41824 AU
evening max el	11807 Apr 26 17:58	3° Ⅱ 09'41 7° Ⅱ 43'44	21°28'05	evening rise	11808 Mar 05 23:13	0° Υ 23'40 0° Υ	
asc. node	11807 May 02 18:36				11808 Mar 05 17:21		
retrograde	11807 May 05 15:50	8° Ⅲ 23'20			11808 Mar 25 17:34	0°8	
evening set	11807 May 10 01:39	6° Ⅱ 36'23		evening max el	11808 Apr 08 10:54	16° 8 57'22	22°46'22
inferior conj	11807 May 15 08:07	0° ∏ 21'18	3°03'03	retrograde	11808 Apr 18 12:21	22° 8 53'44	
minimum elong	11807 May 15 06:45	0° Ⅱ 26′03	3°02'14	asc. node	11808 Apr 18 15:53	22° 8 53'38	
min. Earth dist.	11807 May 15 13:41	0° Ⅱ 01'54	0.68618 AU	evening set	11808 Apr 23 09:22	20° 8 51'44	
	11807 May 15 14:13	30° ₹ 8		inferior conj	11808 Apr 28 17:28	14° 8 27'52	2°41'45
morning rise	11807 May 20 11:38	24° 8 06'16		minimum elong	11808 Apr 28 15:30	14° 8 34'40	2°40'50
direct	11807 May 25 13:35	21° 8 53'39		min. Earth dist.	11808 Apr 28 10:17	14° 8 52'47	0.68768 AU
morning max el	11807 Jun 04 16:05	27° 8 53'03	22°55'56	morning rise	11808 May 03 21:31	8° 8 19'00	
desc. node	11807 Jun 05 06:24	28° 8 29'41		direct	11808 May 08 10:12	6° 8 26'57	
	11807 Jun 06 16:06	Π $^{\circ}0$		morning max el	11808 May 17 06:21	11° 8 34'13	21°29'49
	11807 Jun 28 15:04	0 \circ \odot		desc. node	11808 May 22 03:18	17° 8 03'12	
morning set	11807 Jul 08 23:58	16° © 29'20			11808 May 31 18:19	Π $^{\circ}0$	
max. Earth dist.	11807 Jul 13 10:15	23° © 56'41	1.40048 AU	morning set	11808 Jun 18 00:12	26° Ⅱ 00'45	
	11807 Jul 16 21:49	$0^{\circ}\Omega$			11808 Jun 20 12:14	0 \circ \odot	
				max. Earth dist.	11808 Jun 24 13:01	6° © 33'13	1.42239 AU
superior conj	11807 Jul 21 05:11	7° Ω 43'59	-1°13'52				
minimum elong	11807 Jul 21 10:24	8° Ω 07'49	1°13'46	superior conj	11808 Jul 02 00:29	19° © 09'58	-1°44'46
asc. node	11807 Jul 29 17:48	23° Ω 43'56		minimum elong	11808 Jul 02 07:15	19° © 39'12	1°44'50
evening rise	11807 Jul 30 23:15	26° Ω 04′29			11808 Jul 08 04:01	$0^{\circ}\Omega$	
	11807 Aug 02 00:49	O° m ∤		evening rise	11808 Jul 13 04:26	9° Ω 04'54	
evening max el	11807 Aug 15 23:35	21° m 53'59	18°30'09	asc. node	11808 Jul 15 14:38	13° Ω 29'09	
retrograde	11807 Aug 23 18:37	25° Mp 49'06			11808 Jul 25 12:13	O° m y	
evening set	11807 Aug 25 19:29	25° m 33'51		evening max el	11808 Jul 29 09:44	4° ™ 41'59	18°07'46
desc. node	11807 Sep 01 04:24	22° Mp 07'24		retrograde	11808 Aug 05 07:02	8° Mp 12'35	
inferior conj	11807 Sep 02 13:53	21°M 03'05	-0°26'02	evening set	11808 Aug 07 15:18	7° ™ 48'34	
minimum elong	11807 Sep 02 12:52	21° Mp 05'04	0°25'49	inferior conj	11808 Aug 14 15:10	2° m 57'06	1°01'18
min. Earth dist.	11807 Sep 05 20:27	18° m 30'30	0.57776 AU	minimum elong	11808 Aug 14 17:00	2° m 52'54	1°00'14
morning rise	11807 Sep 10 02:46	15° m ∤47'37			11808 Aug 17 21:23	30° R Ω	
direct	11807 Sep 16 03:25	14° Mp 15'15		min. Earth dist.	11808 Aug 17 21:46	29° Ω 59'11	0.59976 AU
morning max el	11807 Sep 30 11:05	21° m 49'44	26°58'58	desc. node	11808 Aug 18 01:47	29° Ω 50'31	
C	11807 Oct 07 15:35	0∘ ⊽		morning rise	11808 Aug 21 15:37	27° Ω 10′19	
asc. node	11807 Oct 25 19:05	29° ≏ 44'51		direct	11808 Aug 28 03:26	25° Ω 09'48	
	11807 Oct 25 22:08	0°M			11808 Sep 08 02:25	0° m)	
morning set	11807 Oct 30 11:21	9°M22'13		morning max el	11808 Sep 11 11:17	3° m 02'13	27°47'14
5 - 5				3	11808 Oct 01 05:27	$0 \circ \overline{\mathbf{v}}$	
superior conj	11807 Nov 06 08:46	24°M30'33	1°31'20	asc. node	11808 Oct 11 15:50	0 — 19° Ω 27'59	
minimum elong	11807 Nov 06 07:12	24°M21'47	1°31'47	morning set	11808 Oct 13 16:58	23° £ 41'38	
max. Earth dist.	11807 Nov 06 07:12 11807 Nov 06 12:33	24°M51'38	1.31406 AU	morning soc	11808 Oct 15 16:58 11808 Oct 16 15:55	0°M	
max. Durin dist.	11807 Nov 08 19:59	0° x ⁷	1.51 100 /10	max. Earth dist.	11808 Oct 10 13:33	7°M05'24	1.31401 AU
evening rise	11807 Nov 13 04:15	0 x ⁴ 9° x ⁴27'07		mun. Lai ili Ulbi.	11000 001 19 21.24	, 11603.24	1.51701 AU
evening 1150	11807 Nov 13 04.13 11807 Nov 23 17:16	9 x·2/0/ 0°る		superior conj	11808 Oct 20 20:09	9° M .11'46	1°19'09
desc. node	11807 Nov 28 01:36	0°る 7°る17'04		minimum elong	11808 Oct 20 20:09 11808 Oct 20 18:01	8°M59'56	1°19'09 1°19'18
		7.61704 27° る 14'24	26°56'24	_		23°M59'21	1 1710
evening max el	11807 Dec 13 14:03		26°56'24	evening rise	11808 Oct 27 13:11	23°11639′21 0° √ 7	
ratra a J-	11807 Dec 16 19:07	0°≈ 4°224'14		daga (5-4-	11808 Oct 30 09:33		
retrograde	11807 Dec 27 12:24	4°≈24'14		desc. node	11808 Nov 13 22:47	25° ⊀ 46'07	
evening set	11808 Jan 03 07:29	2° ≈ 26′08			11808 Nov 16 23:57	0°₹	

	11000 N 24 10-24	8° る 27'58	25950120	4 1 -	11000 N 10 15.42	25° ∡ ¹45'48	
evening max el	11808 Nov 24 10:24 11808 Dec 08 07:55	8 3 2738 15° 3 29'29	25 30 29	retrograde evening set	11809 Nov 19 15:43	23 x 43 48 24° x 48'06	
retrograde evening set	11808 Dec 08 07.33	13° る 2929		min. Earth dist.	11809 Nov 24 18:30 11809 Nov 30 10:10	24 x 48 00 21° x 56'18	0.56077 AU
min. Earth dist.	11808 Dec 14 12.33 11808 Dec 18 22:56	13 3 3921 11° る 23'07	0.57864 AU	inferior conj	11809 Nov 30 10.10 11809 Dec 02 17:59	20°×729'58	
inferior conj	11808 Dec 18 22:30 11808 Dec 21 23:30	9° る 15'22		•		20° x 29'38' 22'25	
,	11808 Dec 21 23.30 11808 Dec 22 07:47	9° ろ 00'42		minimum elong	11809 Dec 02 22:51	20 x · 22 23 16° x ⁷ 29'43	3 36 44
minimum elong		9°80042 4°854'12	4-45-30	morning rise	11809 Dec 11 05:17		
morning rise direct	11808 Dec 30 05:14 11809 Jan 01 09:21	4°る34°12 4°る39'17		direct	11809 Dec 13 17:59	16° ₹ 12'52 20° ₹ 59'45	19°45'24
	11809 Jan 01 09:21 11809 Jan 07 15:48	4° る 3917 6° る 52'36		morning max el	11809 Dec 23 18:20		19-45-24
asc. node			10044120	asc. node	11809 Dec 25 12:56	22° ₹ 50'28	
morning max el	11809 Jan 09 23:33	8°る50'08	18°44'39		11809 Dec 30 20:23	0°る	
. ,	11809 Jan 23 16:09	0°≈ 40××52152		morning set	11810 Jan 10 08:56	19°る26'39	
morning set	11809 Jan 26 04:55	4° ≈ 53'52			11810 Jan 15 13:50	0° ≈	
superior conj	11809 Feb 03 21:07	21° ≈ 39'21	0°46'31	superior conj	11810 Jan 18 05:36	5° ≈ 18'41	1°10'28
minimum elong	11809 Feb 03 21:07 11809 Feb 03 23:51	21°≈52'14	0°46'39	minimum elong	11810 Jan 18 08:28	5°≈32'51	1°10'28 1°10'47
minimum clong		21 ≈ 32 14 0° ∺	0 40 39	•		17°≈05'04	1.37439 AU
JJ.	11809 Feb 08 09:42	0 K 2° ∺ 44'47		max. Earth dist.	11810 Jan 24 08:41		1.57439 AU
desc. node	11809 Feb 09 22:31		1 20//0 411	desc. node	11810 Jan 27 19:15	23°≈21'09	
max. Earth dist.	11809 Feb 11 02:40	4°) 49′09	1.39660 AU	evening rise	11810 Jan 28 02:06	23°≈51'41	
evening rise	11809 Feb 15 02:20	11°) 41′01			11810 Jan 31 14:36	0°) €	
	11809 Feb 26 13:16	0° Υ			11810 Feb 20 06:28	0°Υ • • • • • • • • • • • • • • • • • • •	
	11809 Mar 21 06:30	0°8		evening max el	11810 Mar 04 14:23	14° Ƴ 37'37	25°23'03
evening max el	11809 Mar 22 01:03	0° 8 46'52	24°06'55	retrograde	11810 Mar 16 19:01	21° Y '40'46	
retrograde	11809 Apr 02 05:46	7° 8 21'34		evening set	11810 Mar 22 15:32	19° Y 15′14	
asc. node	11809 Apr 05 13:13	6° 8 31'18		asc. node	11810 Mar 23 10:35	18° Ƴ 32'23	
evening set	11809 Apr 07 14:32	5° 8 06'18		min. Earth dist.	11810 Mar 27 00:18	14° Ƴ 27'00	0.67731 AU
	11809 Apr 12 01:28	30° ŖƳ		inferior conj	11810 Mar 28 07:50	12° Y 45'05	1°29'52
min. Earth dist.	11809 Apr 12 06:32	29° Ƴ 42'58	0.68466 AU	minimum elong	11810 Mar 28 05:56	12° Y 51'13	1°29'06
inferior conj	11809 Apr 13 02:00	28° Y 37'03	2°10'41	morning rise	11810 Apr 02 20:47	6° Ƴ 52'01	
minimum elong	11809 Apr 12 23:50	28° Ƴ 44'24	2°09'45	direct	11810 Apr 06 08:37	5° Ƴ 41'56	
morning rise	11809 Apr 18 09:13	22° Y 35'26		morning max el	11810 Apr 13 08:02	9° Ƴ 31'05	19°12'15
direct	11809 Apr 22 09:01	21° Y ′04'55		desc. node	11810 Apr 25 20:52	26° Y ′00′31	
morning max el	11809 Apr 30 03:22	25° Ƴ 27'20	20°13'55	greatest brilliancy	11810 Apr 26 06:23	26° Ƴ 36'01	-0.7m
C	11809 May 04 04:53	0°B		c ,	11810 Apr 28 12:39	0°႘	
desc. node	11809 May 09 00:07	6° 8 17'07		morning set	11810 May 07 06:05	13° 8 22'06	
***************************************	11809 May 25 02:56	0°II			11810 May 17 23:06	0°II	
morning set	11809 May 28 04:03	4° ∏ 40'31		max. Earth dist.	11810 May 20 13:23	4°∏04'09	1.45236 AU
max. Earth dist.	11809 Jun 06 22:23	19° ∏ 59'49	1.44032 AU	man. Bartir dist.	110101111111111111111111111111111111111	0.0	1.10230110
max. Lartii dist.	1100) Juli 00 22:23	1) 113) 4)	1.44032710	superior conj	11810 May 23 17:08	9° Ⅱ 02'48	-2°13'03
superior conj	11809 Jun 12 20:13	29° Ⅱ 34'23	-2°06'47	minimum elong	11810 May 23 15:48	8° П 57'35	
minimum elong	11809 Jun 13 01:16	29° I 55'09		minimum clong	11810 Jun 05 17:00	0°95	2 13 43
minimum clong	11809 Jun 13 02:27	0°95	2 0/19	evening rise	11810 Jun 07 06:21	2° © 33'29	
evening rise	11809 Jun 25 16:24	21°©18'02		asc. node	11810 Jun 19 08:30	22° © 05'27	
evening rise	11809 Jun 30 17:27			asc. node			
1		0°Ω			11810 Jun 25 04:56	0°Ω	10020107
asc. node	11809 Jul 02 11:32	2° Ω 58′20	10004145	evening max el	11810 Jun 26 13:02	1°Ω25'26	18°20'07
evening max el	11809 Jul 12 23:20	17° Ω 55'15	18°04'45	retrograde	11810 Jul 02 22:23	4°Ω50'03	
retrograde	11809 Jul 19 09:47	21°Ω15'58		evening set	11810 Jul 05 22:52	4°Ω00'00	
evening set	11809 Jul 22 02:04	20° Ω 40'05	200446		11810 Jul 10 13:09	30°₹©	2045106
inferior conj	11809 Jul 28 10:30	15° Ω 29'51	2°04'16	inferior conj	11810 Jul 11 19:44	28°532'51	2°45'06
minimum elong	11809 Jul 28 13:09	15° Ω 22'55	2°02'54	minimum elong	11810 Jul 11 21:57	28°\$26'23	2°43'56
min. Earth dist.	11809 Jul 31 08:20	12° Ω 29'02	0.62244 AU	min. Earth dist.	11810 Jul 14 04:17	25° © 49'25	0.64348 AU
morning rise	11809 Aug 03 22:02	9° Ω 22'18		morning rise	11810 Jul 17 19:42	22° © 14'27	
desc. node	11809 Aug 04 23:08	8° Ω 40'34		desc. node	11810 Jul 22 20:26	19° 5 544'20	
direct	11809 Aug 10 14:29	6° Ω 58'04		direct	11810 Jul 24 10:34	19° © 35'37	
morning max el	11809 Aug 24 17:43	15° Ω 00′22	27°56'44	morning max el	11810 Aug 07 03:33	27° © 36'06	27°29'39
	11809 Sep 05 22:29	0° m)			11810 Aug 09 10:04	0 $^{\circ}$ Ω	
	11809 Sep 23 19:43	0∘ 亚			11810 Aug 30 16:02	0° m y	
morning set	11809 Sep 27 16:44	7° ≏ 41'49		morning set	11810 Sep 11 08:04	21°M) 15'13	
asc. node	11809 Sep 28 12:33	9° ഫ 23'25		asc. node	11810 Sep 15 09:13	29° m 25'43	
max. Earth dist.	11809 Oct 03 02:39	19° ഫ 06'18	1.31900 AU		11810 Sep 15 15:51	0∘ ⊽	
				max. Earth dist.	11810 Sep 16 00:25	0° ჲ 44'34	1.32926 AU
superior conj	11809 Oct 05 05:29	23° ≏ 43'31					
minimum elong	11809 Oct 05 03:15	23° ≙ 31'17	1°01'25	superior conj	11810 Sep 19 10:40	7° ჲ 59'08	0°38'43
	11809 Oct 08 01:52	0° M		minimum elong	11810 Sep 19 08:55	7° ≏ 49'45	0°38'25
evening rise	11809 Oct 12 00:11	8°M35'03		evening rise	11810 Sep 26 11:21	23° ჲ 08'11	
	11809 Oct 22 22:32	0° ∡ ¹			11810 Sep 29 18:07	0° M	
desc. node	11809 Oct 31 20:03	13° ∡ 14'18		evening max el	11810 Oct 18 09:38	28°M59'07	22°38'01
evening max el	11809 Nov 05 23:00	18° ∡ 754'46	24°19'14	desc. node	11810 Oct 18 17:22	29° M 17'45	

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	11810 Oct 19 11:37	0° ∡ ¹			11811 Sep 07 06:28	0∘ ত	
retrograde	11810 Oct 31 10:47	5° х 28′12		evening rise	11811 Sep 10 20:50	ა — 7° ჲ 34'14	
•				evening rise	-	0°ML	
evening set	11810 Nov 04 02:57	4° ∡ 758'42	0.54005.433		11811 Sep 22 20:19		2100010#
min. Earth dist.	11810 Nov 11 17:37	1° ∡ ³33'13	0.54897 AU	evening max el	11811 Sep 30 03:38	9° M ₁8′10	21°03'37
inferior conj	11810 Nov 12 18:19	0° ≯ 758'10	-5°47'17	desc. node	11811 Oct 05 14:43	13°M28'32	
minimum elong	11810 Nov 12 15:02	1° х °02′50	5°46'25	retrograde	11811 Oct 11 21:52	15°M08'30	
	11810 Nov 14 11:43	30°₽ML		evening set	11811 Oct 14 08:37	14°M54'23	
morning rise	11810 Nov 21 04:36	27°M10'10		inferior conj	11811 Oct 23 10:02	10°M59'50	-4°56'02
direct	11810 Nov 24 09:24	26°M46'44		minimum elong	11811 Oct 23 00:27	11°ML13'21	4°53'22
uncet	11810 Dec 03 06:00	20 11 2 +0 + + + + + + + + + + + + + + + + + +		_			
			21000152	min. Earth dist.	11811 Oct 24 00:28	10°M39'26	0.54578 AU
morning max el	11810 Dec 05 23:06	2° ∡ 16'18	21°08'53	morning rise	11811 Oct 31 16:41	7° M ₊07'22	
asc. node	11810 Dec 12 09:59	9° ҂ 757′38		direct	11811 Nov 04 17:27	6°M32′27	
	11810 Dec 23 17:10	0° ප		morning max el	11811 Nov 17 15:17	12°M44'42	22°50'44
morning set	11810 Dec 25 17:38	4° る 09'35		asc. node	11811 Nov 29 06:56	27°M58'32	
•					11811 Nov 30 11:41	0° ∡ ¹	
superior conj	11811 Jan 02 01:04	19° る 27'17	1°26'51	morning set	11811 Dec 10 04:49	18° ∡ 56'31	
minimum elong	11811 Jan 02 03:13	19°る38'27	1°27'26	morning sec	11811 Dec 15 08:18	0°중	
C					11011 Dec 13 00.10	0.0	
max. Earth dist.	11811 Jan 06 18:18	28° る 59'45	1.35391 AU				
	11811 Jan 07 06:33	0° ≈		superior conj	11811 Dec 17 04:09	3° る 55'34	
evening rise	11811 Jan 10 19:25	6° ≈ 46'52		minimum elong	11811 Dec 17 05:14	4° る 01'21	1°36'56
desc. node	11811 Jan 14 16:02	13° ≈ 50′05		max. Earth dist.	11811 Dec 20 11:19	10° る 53'32	1.33683 AU
	11811 Jan 24 08:23	0° ∀		evening rise	11811 Dec 25 02:39	20° ප 17'00	
evening max el	11811 Feb 15 04:03	28°) €25'18	26°27'28	<i>8</i> 22	11811 Dec 30 05:46	0° ≈	
evening max er	11811 Feb 16 20:43	0°Υ	20 27 20	desc. node	11812 Jan 01 12:53	4°≈06'52	
. 1		5° Υ 44'27		desc. Hode			
retrograde	11811 Feb 28 03:00				11812 Jan 18 07:54	0° ∺	
evening set	11811 Mar 06 10:36	3° Y 12'46		evening max el	11812 Jan 28 17:34	12°) € 00′24	27°12'44
	11811 Mar 09 16:25	30° Ŗ ₩		retrograde	11812 Feb 11 04:45	19°) 24′43	
asc. node	11811 Mar 10 07:57	29° 升 15′00		evening set	11812 Feb 17 21:41	16° ¥ 52'17	
min. Earth dist.	11811 Mar 10 13:22	28° ¥ 58'59	0.66592 AU	min. Earth dist.	11812 Feb 21 19:28	13° ∺ 11'37	0.65081 AU
inferior conj	11811 Mar 12 08:54	26°) 47′28	0°39'07	inferior conj	11812 Feb 24 02:49	10°) 38′26	-0°21'41
minimum elong	11811 Mar 12 07:54	26° ¥ 50'30	0°38'50	minimum elong	11812 Feb 24 03:27	10°) 36'41	0°21'05
•		21°) 04'44	0 30 30	asc. node		9° H 25'53	0 21 03
morning rise	11811 Mar 18 06:08				11812 Feb 25 05:18		
direct	11811 Mar 21 07:16	20° 米 12'32		morning rise	11812 Mar 01 10:47	5° 米 08'30	
morning max el	11811 Mar 27 19:29	23°) 41′01	18°26'44	direct	11812 Mar 04 02:45	4°) 30′55	
	11811 Apr 02 01:54	0 ° Υ		morning max el	11812 Mar 10 11:29	7° ¥ 50′25	17°58'07
desc. node	11811 Apr 12 17:32	16° Ƴ 05′22			11812 Mar 25 16:39	0° Y	
morning set	11811 Apr 17 04:05	23° Y 06'36		morning set	11812 Mar 28 06:52	4° Ƴ 16′29	
Ç	11811 Apr 21 12:41	0°B		desc. node	11812 Mar 29 14:09	6° Y 25′23	
	1101111p1 21 12.11	° O		dose. Hode	11012111111 27 11.07	0 12025	
superior conj	11811 May 03 00:46	18° 8 02'48	1050/12	superior conj	11812 Apr 11 12:29	27° Y ′20′02	1027142
	•						
minimum elong	11811 May 02 16:40	17° 8 31'08		minimum elong	11812 Apr 11 03:35	26° Y ′44'48	1°2/'00
max. Earth dist.	11811 May 03 08:22		1.45732 AU		11812 Apr 13 04:56	$0^{\circ}S$	
	11811 May 10 16:15	Π $\circ 0$		max. Earth dist.	11812 Apr 15 04:35	3° 8 07'32	1.45480 AU
evening rise	11811 May 18 20:05	12° Ⅱ 49'33		evening rise	11812 Apr 27 14:08	22° 8 21'58	
greatest brilliancy	11811 May 28 05:16	27° Ⅱ 34'36	-0.8m		11812 May 02 13:40	Π° 0	
,	11811 May 29 18:59	0ಂತ		greatest brilliancy	11812 May 11 14:14	13° Ⅱ 35′03	-0.6m
asc. node	11811 Jun 06 05:33	10°5643'04		asc. node	11812 May 23 02:40	28° Ⅱ 40'23	0.0111
			10052107		,		10042122
evening max el	11811 Jun 10 00:08	15°505'53	18°53'07	evening max el	11812 May 23 06:28	28° Ⅱ 50'00	19°42'32
retrograde	11811 Jun 16 17:09	18°9547'31			11812 May 24 11:56	0 \circ \odot	
evening set	11811 Jun 20 02:09	17° © 41'50		retrograde	11812 May 30 15:08	3° 5 00'48	
inferior conj	11811 Jun 25 15:07	11° © 59'14	3°07'39	evening set	11812 Jun 03 09:10	1° 5 38'53	
minimum elong	11811 Jun 25 16:22	11° 9 55'20	3°06'43		11812 Jun 05 05:33	30°RⅡ	
min. Earth dist.	11811 Jun 27 08:49	9°5548'08	0.66114 AU	inferior conj	11812 Jun 08 17:29	25° Ⅱ 42'08	3°15'21
morning rise	11811 Jul 01 05:52	5°937'06	***************************************	minimum elong	11812 Jun 08 17:36	25° I I41'43	3°14'35
-						23 H 41 43 24° H 12'09	
direct	11811 Jul 07 13:57	2°954'36		min. Earth dist.	11812 Jun 09 20:26		0.67452 AU
desc. node	11811 Jul 09 17:39	3°9511'00		morning rise	11812 Jun 14 01:41	19° Ⅱ 20'46	
morning max el	11811 Jul 20 14:22	10° © 39'01	26°32'56	direct	11812 Jun 19 23:24	16° Ⅱ 44'27	
	11811 Aug 04 22:26	$0^{\circ}\Omega$		desc. node	11812 Jun 25 14:46	18° Ⅲ 36′52	
	11811 Aug 23 05:08	0° m)		morning max el	11812 Jul 02 00:39	23° II 57'52	25°15'39
morning set	11811 Aug 25 11:54	4° mp 14'40		-	11812 Jul 07 10:01	0ංම	
max. Earth dist.	11811 Aug 29 12:20	12° m) 00'18	1.34472 AU		11812 Jul 28 07:59	0° U	
	-	-	1.5 17/2/110	morning set			
asc. node	11811 Sep 02 05:54	19° m 31'24		morning set	11812 Aug 07 00:13	16° Ω 29'48	1.06455 : **
_				max. Earth dist.	11812 Aug 10 14:53	23° Ω 06′15	1.36457 AU
superior conj	11811 Sep 03 09:25	21° m 53'09	0°11'05		11812 Aug 14 05:58	0° m)	
minimum elong	11811 Sep 03 08:50	21° Mp 50'06	0°10'47				
behind sun begin	11811 Sep 03 04:27	21° m 27'28		superior conj	11812 Aug 16 22:49	5° m) 17'41	-0°20'31
behind sun end	11811 Sep 03 13:12	22° m) 12'45		minimum elong	11812 Aug 17 00:08	5° m/24'10	
	r	a = .5				4	-

asc. node	11812 Aug 19 02:35	9° Mp 36′21			11813 Aug 06 04:02	0° m)	
evening rise	11812 Aug 25 02:23	21°Mp46'56		evening rise	11813 Aug 09 01:18	5° m 39'01	
	11812 Aug 29 05:23	0∘ 亚			11813 Aug 23 09:27	0∘ ত	
evening max el	11812 Sep 11 10:57	20° ≏ 18'29	19°47'06	evening max el	11813 Aug 25 07:36	2° ≏ 06'46	18°52'04
retrograde	11812 Sep 21 13:29	25° ≏ 20'26		retrograde	11813 Sep 02 20:34	6° ₽ 23'12	
desc. node	11812 Sep 21 12:05	25° ♀ 20'25		evening set	11813 Sep 04 17:59	6° ₽ 11'24	
evening set	11812 Sep 23 10:49	25° ♀ 10'40		desc. node	11813 Sep 08 09:31	4° ₽ 49'15	
inferior conj	11812 Oct 02 07:47	21° ≏ 08'33	-3°18'26	inferior conj	11813 Sep 12 23:20	1° ≏ 52'27	-1°26'13
minimum elong	11812 Oct 01 23:14	21° Ω 21'45		minimum elong	11813 Sep 12 19:42	1° ≏ 58'57	
min. Earth dist.	11812 Oct 04 09:43	19° £ 51'33	0.55200 AU	minimum ciong	11813 Sep 15 14:18	30°R.M)	1 24 40
			0.55200 AU	in Fauth dies			0.56656 AII
morning rise	11812 Oct 10 10:01	16° Ω 51'00		min. Earth dist.	11813 Sep 15 23:55	29° m 43'21	0.56656 AU
direct	11812 Oct 15 06:37	15° ≏ 59'07		morning rise	11813 Sep 20 18:08	26° m 57'45	
morning max el	11812 Oct 29 01:59	22° ≏ 49'28	24°38'51	direct	11813 Sep 26 09:23	25° m) 41'37	
	11812 Nov 04 11:22	0° M			11813 Oct 07 02:23	0∘ ⊽	
asc. node	11812 Nov 15 03:48	16° M ₊40'18		morning max el	11813 Oct 10 15:14	3° ഫ 03'13	26°15'21
	11812 Nov 21 22:40	0° ∡ 7			11813 Oct 29 21:16	0° M	
morning set	11812 Nov 23 16:40	3° ∡ ¹42'24		asc. node	11813 Nov 02 00:37	5° M 52′10	
-				morning set	11813 Nov 08 03:27	18° M 21'46	
superior conj	11812 Nov 30 12:16	18° ∡ ³36′06	1°39'02	Ü	11813 Nov 13 10:53	0° ∡ ¹	
minimum elong	11812 Nov 30 12:12	18° √ 35'43	1°39'47		110101101101	· ,.	
max. Earth dist.	11812 Dec 02 12:05	22° × 56'45	1.32412 AU	superior conj	11813 Nov 14 23:08	3° ∡ ′21'35	1035148
max. Earth dist.		0°る	1.32412 AU	1 3		3° x 21 33	1°36'25
	11812 Dec 05 19:25			minimum elong	11813 Nov 14 22:03		
evening rise	11812 Dec 07 20:27	4° る 13'44		max. Earth dist.	11813 Nov 15 18:29	5° ∡ '08'58	1.31624 AU
desc. node	11812 Dec 18 09:49	24° る 05'43		evening rise	11813 Nov 21 21:58	18° ∡ ′29'09	
	11812 Dec 21 22:53	0° ≈			11813 Nov 27 15:20	0°ಕ	
evening max el	11813 Jan 10 05:20	25° ≈ 10'48	27°31'52	desc. node	11813 Dec 05 06:52	13° る 38'25	
	11813 Jan 16 06:47	0° ∀			11813 Dec 16 13:07	0° ≈ ≈	
retrograde	11813 Jan 23 23:40	2°) 33'01		evening max el	11813 Dec 23 12:58	7° ≈ 42'51	27°19'15
evening set	11813 Jan 30 22:23	0° ₩ 06'50		retrograde	11814 Jan 06 10:53	14° ≈ 58'38	
Ç	11813 Jan 31 02:15	30°R≈		evening set	11814 Jan 13 09:30	12° ≈ 47'28	
min. Earth dist.	11813 Feb 03 16:36	26°≈56'04	0.63248 AU	min. Earth dist.	11814 Jan 17 03:28	9° ≈ 59'41	0.61181 AU
inferior conj	11813 Feb 06 10:51	24°≈11'19		inferior conj	11814 Jan 20 05:41	7°≈16'39	
-							
minimum elong	11813 Feb 06 13:52	24°≈03'49	1-30/05	minimum elong	11814 Jan 20 11:32		2°46'13
asc. node	11813 Feb 11 02:37	20°≈06'52		morning rise	11814 Jan 27 16:24	2°≈21'15	
morning rise	11813 Feb 13 07:39	18° ≈ 57'09		asc. node	11814 Jan 28 23:54	2° ≈ 05'01	
direct	11813 Feb 15 16:09	18° ≈ 30'35		direct	11814 Jan 29 19:50	2° ≈ 02'05	
morning max el	11813 Feb 22 05:13	21° ≈ 51'56	17°46'50	morning max el	11814 Feb 05 21:22	5° ≈ 35'21	17°53'38
	11813 Feb 28 12:22	0° ∀			11814 Feb 21 11:55	0° ∀	
morning set	11813 Mar 10 11:45	16°) 41′49		morning set	11814 Feb 21 12:22	0°) 02′01	
desc. node	11813 Mar 16 10:47	26°) 56′11		desc. node	11814 Mar 03 07:24	17°) 33′00	
	11813 Mar 18 06:14	$0^{\circ}\mathbf{Y}$					
				superior conj	11814 Mar 04 03:28	19°) 00'00	-0°06'29
superior conj	11813 Mar 22 19:40	7° Y °35′24	-0°47'13	minimum elong	11814 Mar 04 02:54	18° ¥ 57'35	0°06'10
minimum elong	11813 Mar 22 14:47	7° Υ 15'20		behind sun begin	11814 Mar 03 19:11	18° \(\frac{1}{3}\) 733	0 00 10
max. Earth dist.	11813 Mar 28 23:07	17° Υ 32'12	1.44512 AU	behind sun end		19°) 30'57	
max. Earm dist.			1.44312 AU	bennia sun ena	11814 Mar 04 10:38		
	11813 Apr 05 21:54	0°8			11814 Mar 10 15:46	0°Υ	
evening rise	11813 Apr 07 01:34	1° 8 46'29		max. Earth dist.	11814 Mar 11 13:24	1° Y ′28'56	1.42933 AU
	11813 Apr 26 03:54	0°II		evening rise	11814 Mar 17 21:37	11° Y ′39'52	
evening max el	11813 May 06 07:04	12° Ⅱ 35'16	20°46'11		11814 Mar 29 23:18	$0^{\circ}S$	
asc. node	11813 May 09 23:52	15° Ⅱ 45′02		evening max el	11814 Apr 19 02:17	26° 8 21'28	22°00'40
retrograde	11813 May 14 14:01	17° Ⅲ 24'42			11814 Apr 23 08:16	Π \circ 0	
evening set	11813 May 18 17:49	15° Ⅱ 46'39		asc. node	11814 Apr 26 21:08	1° Ⅱ 41'38	
inferior conj	11813 May 24 00:15	9° Ⅲ 37′28	3°10'43	retrograde	11814 Apr 28 11:57	1° Ⅱ 54'07	
minimum elong	11813 May 23 23:22	9° Ⅱ 40′31	3°09'56	evening set	11814 May 03 02:21	0° Ⅱ 00'39	
min. Earth dist.	11813 May 24 13:20	8° Ⅲ 52'15	0.68327 AU		11814 May 03 02:40	30°R ∀	
morning rise	11813 May 29 04:42	3° ∏ 19′29	0.00327710	inferior conj	11814 May 08 09:16	23° 8 41'14	2°55'16
direct	11813 May 29 04.42 11813 Jun 03 14:01	0° П 56'51		minimum elong	11814 May 08 07:36	23° 8 47'01	2°54'23
				=	•		
desc. node	11813 Jun 12 11:49	5° Ⅱ 33'50	220.4512.5	min. Earth dist.	11814 May 08 09:20	23° 8 41'00	0.68735 AU
morning max el	11813 Jun 14 10:39	7° Ⅱ 26'05	23°47'35	morning rise	11814 May 13 12:40	17° 8 28'28	
	11813 Jul 02 01:06	0 \circ ∞		direct	11814 May 18 08:53	15° 8 24'24	
morning set	11813 Jul 19 16:15	27° © 48'54		morning max el	11814 May 27 22:24	21° 8 01'56	22°18'21
	11813 Jul 20 22:53	0 $^{\circ}$ Ω		desc. node	11814 May 30 08:46	23° 8 37'43	
max. Earth dist.	11813 Jul 23 12:26	4° Ω 28′10	1.38717 AU		11814 Jun 04 14:21	Π $^{\circ}$ 0	
					11814 Jun 25 06:45	0ಂಣ	
superior conj	11813 Jul 30 23:17	18° Ω 04'04	-0°54'24	morning set	11814 Jun 30 07:32	8° © 01'00	
minimum elong	11813 Jul 31 03:04	18° Ω 21'53		max. Earth dist.	11814 Jul 05 11:19	16° 5 31'48	1.41009 AU
asc. node	11813 Aug 05 23:19	29° Ω 36'57	- - -				
	00 20.17	000007					

superior conj	11814 Jul 13 06:34	0° Ω 02'47	-1°27'40	superior conj	11815 Jun 24 16:13	11° © 03'44	-1°55'35
minimum elong	11814 Jul 13 12:40	0°Ω30'01		minimum elong	11815 Jun 24 22:48	11°931'33	
minimum clong	11814 Jul 13 05:57	0° Ω	1 2/34	minimum clong	11815 Jul 05 13:25	0°Ω	1 33 30
evening rise	11814 Jul 23 14:12	19° Ω 01'44		evening rise	11815 Jul 06 12:41	1° Ω 43'33	
asc. node	11814 Jul 23 20:07	19° Ω 29'23		asc. node	11815 Jul 10 16:59	9° Ω 08'38	
use. Houe	11814 Jul 29 13:23	0° m)		evening max el	11815 Jul 23 02:17	27° Ω 37'28	18°04'12
evening max el	11814 Aug 08 14:08	14° Mp 36'50	18°18'14	evening man er	11815 Jul 26 03:05	0° m)	10 0.12
retrograde	11814 Aug 15 22:39	18° m) 19'40		retrograde	11815 Jul 29 17:32	1° m)01'43	
evening set	11814 Aug 18 02:24	18° m) 01'14		evening set	11815 Aug 01 05:17	0° mp 32'54	
inferior conj	11814 Aug 25 12:43	13° mp 21'54	0°13'57	C	11815 Aug 02 09:48	30° ₽ Ω	
minimum elong	11814 Aug 25 13:12	13° m/20'53	0°13'28	inferior conj	11815 Aug 07 22:09	25° Ω 33'23	1°30'56
transit middle	11814 Aug 25 13:12	13° m/20'53	0°13'28	minimum elong	11815 Aug 08 00:33	25° Ω 27'35	1°29'38
transit begin	11814 Aug 25 11:16	13° m/24'55		min. Earth dist.	11815 Aug 11 01:56	22° Ω 31'31	0.60956 AU
transit end	11814 Aug 25 15:07	13° m) 16'52		desc. node	11815 Aug 13 04:21	20° Ω 43'21	
desc. node	11814 Aug 26 06:57	12° m 43'34		morning rise	11815 Aug 14 17:05	19° Ω 36'46	
min. Earth dist.	11814 Aug 28 20:52	10° m 35'31	0.58683 AU	direct	11815 Aug 21 07:55	17° Ω 25′04	
morning rise	11814 Sep 01 20:29	7° m 51'46		morning max el	11815 Sep 04 14:00	25° Ω 22'25	27°55'52
direct	11814 Sep 08 02:43	6° Mp 06′53			11815 Sep 08 20:23	0° m)	
morning max el	11814 Sep 22 11:09	13° m 50'50	27°24'03		11815 Sep 28 20:25	0∘ ত	
	11814 Oct 05 09:01	0∘ ⊽		asc. node	11815 Oct 06 18:06	15° ≙ 15′01	
asc. node	11814 Oct 19 21:23	25° ≏ 26'06		morning set	11815 Oct 07 14:50	17° ≙ 01'55	
	11814 Oct 22 03:01	0°M₊		max. Earth dist.	11815 Oct 13 11:01	29° ≏ 33'25	1.31555 AU
morning set	11814 Oct 23 11:29	2°M50'12			11815 Oct 13 15:51	0° M	
	11014 0-4 20 10.54	10000 07121	1°26'50	:	11015 0-4 14 21.20	20M 44120	1912/20
superior conj	11814 Oct 30 10:54	18°M06'31		superior conj	11815 Oct 14 21:38	2°M44'30	1°12'20
minimum elong	11814 Oct 30 09:03	17°M56'10	1°27'11	minimum elong	11815 Oct 14 19:24	2°M32'09	1°12'22
max. Earth dist.	11814 Oct 30 03:21	17° M 24'24 0° ∡'	1.31338 AU	evening rise	11815 Oct 21 14:50	17° M .31'53 0° ∡'	
avanina riaa	11814 Nov 04 19:54	0° x ¹ 2° x ¹57'22		desc. node	11815 Oct 27 16:11	0° x ° 20° x ⁷ 40′18	
evening rise	11814 Nov 06 04:48	2° x '3/22		desc. node	11815 Nov 09 01:14	20° x '40'18	
44-	11814 Nov 20 12:44	0°る 2° る 34'46			11815 Nov 16 22:53	0°る 0°る19'40	25°14'01
desc. node	11814 Nov 22 04:00		26922112	evening max el	11815 Nov 17 07:04	0°51940 7° 5 16'41	25°14'01
evening max el	11814 Dec 05 14:06	19°る26'58 26°る33'55	26°32'12	retrograde	11815 Dec 01 03:22	6° る 00'35	
retrograde	11814 Dec 19 12:51	20° る 33°33		evening set	11815 Dec 06 22:33 11815 Dec 11 19:09		0.57040 ATT
evening set	11814 Dec 26 03:04	24°646'38 22° る 10'41	0.50042.411	min. Earth dist.		3°る19'56 1°る28'36	0.57049 AU
min. Earth dist.	11814 Dec 30 03:58 11815 Jan 02 07:48	19°る45'27	0.59042 AU	inferior conj	11815 Dec 14 14:08	1°る28'36 1°る16'04	
inferior conj minimum elong	11815 Jan 02 07.48	19 3 43 27	4°04'07	minimum elong	11815 Dec 14 21:39 11815 Dec 16 20:45	1 310 04 30°R × 7	3 12 03
C	11815 Jan 10 07:34	19 3 2934	4 04 07	morning rise	11815 Dec 16 20.45 11815 Dec 22 23:02	30 KX. 27° √ 16′27	
morning rise direct	11815 Jan 10 07.34 11815 Jan 12 09:43	13 3 1110		morning rise direct	11815 Dec 25 05:56	27° х 1027 27° х 01′08	
asc. node	11815 Jan 15 21:08	15° る 40'39		direct	11816 Jan 01 18:32	27×0108	
morning max el	11815 Jan 20 08:12	13 3 4039	18°19'54	asc. node	11816 Jan 02 18:17	0°る50'23	
morning max ci	11815 Jan 28 11:11	0°≈	10 1754	morning max el	11816 Jan 03 09:49	1°る26'38	19°07'40
morning set	11815 Feb 05 02:56	0 ∞ 14° ≈ 00'10		morning set	11816 Jan 20 03:02	1 02038 28°る23'29	19 07 40
morning set	11815 Feb 13 14:48	0° \		morning set	11816 Jan 20 22:30	0°≈	
	11013 1 20 13 11.10	٠ ,			11010 3411 20 22.30	0.0	
superior conj	11815 Feb 14 09:46	1° ¥ 26′51	0°29'13	superior conj	11816 Jan 28 10:02	14° ≈ 43′30	0°57'37
minimum elong	11815 Feb 14 11:49	1° ∺ 36'14	0°29'21	minimum elong	11816 Jan 28 12:58	14° ≈ 57'35	0°57'50
desc. node	11815 Feb 18 04:02	8° 升 12′23		max. Earth dist.	11816 Feb 04 05:40	27° ≈ 25'42	1.38708 AU
max. Earth dist.	11815 Feb 21 22:57	14°) 47′10	1.40924 AU	desc. node	11816 Feb 05 00:44	28° ≈ 51′01	
evening rise	11815 Feb 26 12:24	22°) € 25′04			11816 Feb 05 16:16	0°) €	
	11815 Mar 03 05:36	0 ° $\mathbf{\gamma}$		evening rise	11816 Feb 08 00:35	4°) €06'10	
	11815 Mar 24 00:06	9° 8			11816 Feb 24 08:11	0° Υ	
evening max el	11815 Apr 01 17:48	10° 8 10'01	23°20'51	evening max el	11816 Mar 14 07:37	24° Ƴ 01′27	24°40'25
retrograde	11815 Apr 12 07:19	16° 8 23'50			11816 Mar 22 08:05	$_{0\circ}$ 8	
asc. node	11815 Apr 13 18:28	16° 8 13'46		retrograde	11816 Mar 25 22:57	0° 8 48'58	
evening set	11815 Apr 17 09:10	14° 8 16'11			11816 Mar 29 07:10	30° ₹Ƴ	
inferior conj	11815 Apr 22 18:30	7° 8 49'35		asc. node	11816 Mar 30 15:49	29° Y 10′13	
minimum elong	11815 Apr 22 16:24	7° 8 56'49	2°28'51	evening set	11816 Mar 31 12:44	28° Y 29'06	
min. Earth dist.	11815 Apr 22 06:09	8° 8 32'10	0.68689 AU	min. Earth dist.	11816 Apr 05 01:35	23° Y 20'46	0.68203 AU
morning rise	11815 Apr 27 23:33	1° 8 43'24		inferior conj	11816 Apr 06 02:07	21° Υ 59'08	1°54'36
direct	11815 May 02 06:42	0° 8 00'21		minimum elong	11816 Apr 06 00:00	22° Y 06′11	1°53'43
morning max el	11815 May 10 15:07	4° 8 47'32	20°55'55	morning rise	11816 Apr 11 11:26	16° Y 00′57	
desc. node	11815 May 17 05:38	12° 8 30'03		direct	11816 Apr 15 06:08	14° Ƴ 39'07	
_	11815 May 29 15:54	0°II		morning max el	11816 Apr 22 15:18	18° Y 45'31	19°45'52
morning set	11815 Jun 09 21:38	17° Ⅱ 06'09			11816 May 01 17:04	0° 8	
max. Earth dist.	11815 Jun 17 16:28	29° Ⅱ 29'26	1.43063 AU	desc. node	11816 May 03 02:24	1° 8 57'52	
	11815 Jun 17 24:00	0ං ව		greatest brilliancy	11816 May 05 11:46	5° 8 25'08	-0.6m

morning set max, Earth dist.	11816 May 18 21:54 11816 May 21 17:32 11816 May 30 05:00	25° ႘ 39'12 0°Ⅲ 13°Ⅲ16'25	1.44629 AU	desc. node greatest brilliancy	11817 Apr 19 23:04 11817 Apr 20 01:14 11817 Apr 25 05:46	21°Υ51'02 21°Υ59'20 0°႘	-0.8m
superior conj	11816 Jun 04 01:50	21° П 03'33		morning set max. Earth dist.	11817 Apr 28 06:18 11817 May 12 22:23	4° 8 41'59 27° 8 34'26	1.45537 AU
minimum elong	11816 Jun 04 04:40 11816 Jun 09 13:21	21° Ⅱ 15'01 0°©	2°12'26		11817 May 14 11:32	0°II	2000141
evening rise asc. node	11816 Jun 17 15:51 11816 Jun 26 13:55	13° © 33'51 28° © 29'45		superior conj minimum elong	11817 May 14 15:11 11817 May 14 10:34	0° П 14'20 29° В 56'12	
evening max el	11816 Jun 27 12:29 11816 Jul 05 16:22	0° Ω 10° Ω 59'37	18°09'00	evening rise	11817 May 29 19:27 11817 Jun 02 06:45	24°∏23'40 0° ©	
retrograde	11816 Jul	$10^{\circ} 0.3937$ $14^{\circ} \Omega 20'05$	18 09 00	asc. node	11817 Jun 12 06:43	17° © 25'32	
evening set	11816 Jul 14 20:54	13° Ω 38'14		evening max el	11817 Jun 19 05:12	24° © 34'42	18°32'00
inferior conj	11816 Jul 20 23:55	8° Ω 20′21	2°24'02	retrograde	11817 Jun 25 16:49	28° © 05'16	
minimum elong	11816 Jul 21 02:29	8° Ω 13'17		evening set	11817 Jun 28 20:51	27° © 08'38	
min. Earth dist.	11816 Jul 23 16:20	5° Ω 25'06	0.63180 AU	inferior conj	11817 Jul 04 13:54	21°534'28	2°56'38
morning rise desc. node	11816 Jul 27 06:19 11816 Jul 30 01:40	2°Ω07'20 0°Ω26'14		minimum elong min. Earth dist.	11817 Jul 04 15:45 11817 Jul 06 16:05	21°528'54 19°503'32	2°55'36 0.65143 AU
desc. node	11816 Jul 30 01:40	30°RS		min. Earth dist.	11817 Jul 00 16:03	15°503'32	0.03143 AU
direct	11816 Aug 02 22:50	29° © 35'56		direct	11817 Jul 16 21:57	12°932'13	
	11816 Aug 05 18:23	$0^{\circ}\Omega$		desc. node	11817 Jul 16 22:55	12° © 32'14	
morning max el	11816 Aug 16 22:11	7° Ω 37'55	27°49'17	morning max el	11817 Jul 30 08:58	20°\$27'46	27°08'45
	11816 Sep 03 02:37	0° ™			11817 Aug 07 13:51	$0^{\circ}\Omega$	
morning set	11816 Sep 20 11:21	0° Ω 51'31			11817 Aug 27 05:07	0° m/y	
	11816 Sep 20 01:04	0° 亞		morning set	11817 Sep 03 22:17	14° Mp 12'23	1 22526 ATT
asc. node max. Earth dist.	11816 Sep 22 14:48 11816 Sep 25 13:41	5° £ 13'57 11° £ 26'25	1.32284 AU	max. Earth dist. asc. node	11817 Sep 08 07:47 11817 Sep 09 11:29	22° m 56'37 25° m 18'37	1.33526 AU
max. Lartii tist.	11010 бер 25 15.41	11 =2025	1.32204 710	asc. node	11817 Sep 05 11:25	0° <u>م</u>	
superior conj	11816 Sep 28 05:28	17° ≏ 10'10	0°52'29		r		
minimum elong	11816 Sep 28 03:21	16° ≏ 58'44	0°52'16	superior conj	11817 Sep 12 08:15	1° ≙ 17'55	0°27'33
	11816 Oct 04 02:31	0° M		minimum elong	11817 Sep 12 06:54	1° ≏ 10'46	0°27'13
evening rise	11816 Oct 05 02:10	2°M07'29		evening rise	11817 Sep 19 12:55	16° Ω 39'02	
desc. node	11816 Oct 20 03:19 11816 Oct 25 22:31	0° द्र ¹ 7° द्र ¹ 35'37		evening max el	11817 Sep 26 03:23 11817 Oct 10 06:20	0°M 20°M39'05	21056'05
evening max el	11816 Oct 28 17:48	10° x 33'37'	23°36'10	desc. node	11817 Oct 10 00:20 11817 Oct 12 19:52	20 IL 39 03 22° IL 55'35	21 30 03
retrograde	11816 Nov 11 05:08	17° ×7 15'46	23 30 10	retrograde	11817 Oct 22 20:11	26°M54'24	
evening set	11816 Nov 15 17:55	16° ∡ ³31′03		evening set	11817 Oct 25 22:19	26°M33'01	
min. Earth dist.	11816 Nov 22 03:56	13° ∡ °27′12	0.55488 AU	inferior conj	11817 Nov 03 19:18	22°M36'10	-5°32'39
inferior conj	11816 Nov 24 00:08	12° ∡ ′21'57		minimum elong	11817 Nov 03 12:36	22°M45'33	
minimum elong	11816 Nov 24 01:53	12° x 19'22	5°48'59	min. Earth dist.	11817 Nov 03 10:41		0.54645 AU
morning rise direct	11816 Dec 02 11:41 11816 Dec 05 06:44	8° х ⁷ 28'41 8° х ⁷ 09'29		morning rise direct	11817 Nov 12 04:10 11817 Nov 15 17:02	18°M49'02 18°M21'34	
morning max el	11816 Dec 05 00.44 11816 Dec 15 22:39	13° x 13'31	20°18'21	morning max el	11817 Nov 13 17:02 11817 Nov 27 21:45	24°M09'17	21°50'34
asc. node	11816 Dec 19 15:22	17° х 19'39	20 1021	morning max or	11817 Dec 03 02:16	0° √	21 3031
	11816 Dec 27 17:46	8°0		asc. node	11817 Dec 06 12:21	4° ∡ 751'57	
morning set	11817 Jan 03 09:20	13° る 01'42		morning set	11817 Dec 18 19:21	27° ∡ ³47'48	
		• • • • • • • • • • • • • • • • • • • •			11817 Dec 19 20:26	0°₹	
superior conj minimum elong	11817 Jan 10 23:37 11817 Jan 11 02:15	28°る36'38 28°る49'56	1°18'19 1°18'45	superior conj	11817 Dec 25 22:45	12° る 55'36	1°31'39
minimum clong	11817 Jan 11 16:12	28 ○ 49 30	1 1645	minimum elong	11817 Dec 25 22:43 11817 Dec 26 00:29	12 3 3330	1°32'18
max. Earth dist.	11817 Jan 16 13:00	9° ≈ 31'48	1.36532 AU	max. Earth dist.	11817 Dec 30 01:24	21°る24'08	1.34611 AU
evening rise	11817 Jan 20 08:12	16° ≈ 36'41		evening rise	11818 Jan 03 07:54	29° ප් 48'18	
desc. node	11817 Jan 21 21:27	19° ≈ 24'41			11818 Jan 03 10:20	0° ≈	
	11817 Jan 28 01:14	0° ∀		desc. node	11818 Jan 08 18:17	9° ≈ 49'28	
	11817 Feb 17 18:50	0°Υ 7°W51135	25052122		11818 Jan 21 04:15	0°){	26040122
evening max el retrograde	11817 Feb 24 21:00 11817 Mar 09 09:50	7° Υ 51'35 15° Υ 02'37	25°52'22	evening max el retrograde	11818 Feb 07 10:29 11818 Feb 20 15:22	21°) 34'33 28°) 57'41	26°49'23
evening set	11817 Mar 15 11:24	13 γ 02 37 12° γ 33'42		evening set	11818 Feb 20 13:22 11818 Feb 27 03:20	26° H 24'34	
asc. node	11817 Mar 17 13:10	10° Υ 33'52		min. Earth dist.	11818 Mar 03 03:42	22° H 25'22	0.65993 AU
min. Earth dist.	11817 Mar 19 17:27	8° Y 00'33	0.67295 AU	asc. node	11818 Mar 04 10:31	20°) 55'48	
inferior conj	11817 Mar 21 06:08	6° Ƴ 05'07	1°09'33	inferior conj	11818 Mar 05 04:26	20°) €03'12	0°14'30
minimum elong	11817 Mar 21 04:33	6° Y 10′09	1°08'58	minimum elong	11818 Mar 05 04:02	20°) €04'22	0°14'34
morning rise	11817 Mar 26 22:19	0° Υ 16'27		transit middle	11818 Mar 05 04:02	20°) € 04'22 20°) € 07'59	0°14'34
direct	11817 Mar 27 09:37 11817 Mar 30 05:29	30° ₹ 29° ¥ 14'18		transit begin transit end	11818 Mar 05 02:48 11818 Mar 05 05:16	20° ★ 0/′59 20° ★ 00′46	
411001	11817 Mai 30 03:29 11817 Apr 02 03:53	0° Υ		morning rise	11818 Mar 11 06:00	14° H 25'53	
morning max el	11817 Apr 05 23:05		18°50'58	direct	11818 Mar 14 02:58	13°) € 40′28	

morning max el	11818 Mar 20 12:51	17°)(03'48	1991220	inferior conj	11819 Feb 16 18:32	3°){ 47'25	0°50'24
morning max ci	11818 Mar 30 05:43	0°Υ	16 12 29	minimum elong	11819 Feb 16 20:05	3°) (4723	0°49'20
desc. node	11818 Apr 06 19:42	12° Υ '02'48		asc. node	11819 Feb 19 07:51	1°) 12'04	0 4720
morning set	11818 Apr 08 16:11	15° Υ 01'46		ase. Hode	11819 Feb 20 17:11	30°R≈	
morning sec	11818 Apr 18 01:06	0°8		morning rise	11819 Feb 23 07:45	28°≈23'47	
	1101011pi 10 01.00	ů O		direct	11819 Feb 25 20:09	27°≈51'29	
superior conj	11818 Apr 23 22:12	9° 8 15'22	-1°47'35		11819 Mar 02 22:20	0° ∀	
minimum elong	11818 Apr 23 12:55	8° 8 39'00		morning max el	11819 Mar 04 05:58		17°51'07
max. Earth dist.	11818 Apr 25 17:49	12° 8 06'03	1.45710 AU	morning set	11819 Mar 21 06:46	26°) 45'48	
	11818 May 07 05:31	$\Pi^{\circ}0$		C	11819 Mar 23 05:00	0° Υ	
evening rise	11818 May 09 23:38	4° Ⅱ 17'17		desc. node	11819 Mar 24 16:20	2° Y 27'53	
greatest brilliancy	11818 May 21 12:33	22° I 106'50	-0.7m				
	11818 May 26 21:39	0 \circ \odot		superior conj	11819 Apr 03 16:55	18° Y 54'14	-1°11'03
asc. node	11818 May 31 08:00	5° 5 47'17		minimum elong	11819 Apr 03 09:26	18° Y 24'09	1°10'17
evening max el	11818 Jun 02 14:21	8° 5 516'36	19°12'16	max. Earth dist.	11819 Apr 08 13:05	26° Ƴ 36'42	1.45146 AU
retrograde	11818 Jun 09 13:20	12° © 09'45			11819 Apr 10 16:48	$0^{\circ}S$	
evening set	11818 Jun 13 01:59	10° © 57'22		evening rise	11819 Apr 19 12:51	13° 8 41'00	
inferior conj	11818 Jun 18 12:36	5° © 08'33	3°12'33		11819 Apr 30 07:38	0°Щ	
minimum elong	11818 Jun 18 13:22	5° © 06'04	3°11'43	greatest brilliancy	11819 May 04 14:34	6° Ⅱ 18'33	-0.6m
min. Earth dist.	11818 Jun 19 24:00	3°5513'57	0.66729 AU	evening max el	11819 May 16 18:19	22° Ⅱ 01'43	20°08'10
	11818 Jun 22 17:39	30°RⅡ		asc. node	11819 May 18 05:10	23° Ⅲ 24'10	
morning rise	11818 Jun 24 00:11	28° Ⅱ 46'01		retrograde	11819 May 24 11:53	26° Ⅱ 28'06	
direct	11818 Jun 30 04:07	26° Ⅱ 04'57		evening set	11819 May 28 09:55	24° ∏ 59'29	201.4140
desc. node	11818 Jul 03 20:05	26°∏52'36 0° ©		inferior conj	11819 Jun 02 17:08 11819 Jun 02 16:49	18° Ⅲ 57'27 18° Ⅲ 58'34	3°14'48 3°14'02
marning may al	11818 Jul 08 20:09 11818 Jul 12 19:47	0 € 3°€39'01	26002102	minimum elong min. Earth dist.	11819 Jun 02 16.49	18 П 38 34 17° П 45'58	0.67876 AU
morning max el	11818 Aug 01 21:11	o°Ω	20 02 03	morning rise	11819 Jun 07 23:23	17 Щ43 38 12° Д 37'12	0.07870 AU
morning set	11818 Aug 17 20:05	26° Ω 54'52		direct	11819 Jun 13 16:05	12 П 3/12 10° П 05'36	
morning set	11818 Aug 19 11:48	0°m)		desc. node	11819 Jun 20 17:10	13° Ⅱ 00'31	
max. Earth dist.	11818 Aug 21 15:18	4° Mp 05'23	1.35261 AU	morning max el	11819 Jun 25 05:39	17° Ⅱ 01'58	24°38'56
max. Dartii dist.	1101011 ug 21 13.10	1 11/03 23	1.55201710	morning max or	11819 Jul 06 00:32	0°95	21 3030
superior conj	11818 Aug 27 03:25	15° mp 00'30	-0°01'55		11819 Jul 25 20:58	$0^{\circ}\Omega$	
minimum elong	11818 Aug 27 03:32	15° m 01'08	0°02'11	morning set	11819 Jul 31 00:25	8° Ω 48'03	
behind sun begin	11818 Aug 26 21:31	14° m 30'33		max. Earth dist.	11819 Aug 03 14:32	15° Ω 12'48	1.37391 AU
behind sun end	11818 Aug 27 09:33	15° m 31'46			Č		
asc. node	11818 Aug 27 08:09	15° m 24'38		superior conj	11819 Aug 10 11:50	28° Ω 10′28	-0°34'44
	11818 Sep 03 09:21	0∘ ⊽		minimum elong	11819 Aug 10 14:09	28° Ω 21'41	0°34'47
evening rise	11818 Sep 03 21:01	1° ≏ 00'17			11819 Aug 11 10:19	0° ™	
	11818 Sep 21 01:14	0° M		asc. node	11819 Aug 14 04:53	5°m/28'31	
evening max el	11818 Sep 22 05:42	1° M 14'19	20°28'37	evening rise	11819 Aug 19 00:07	15°M)05'16	
desc. node	11818 Sep 29 17:16	6° ™ 10′27			11819 Aug 26 19:47	0∘ ⊽	
retrograde	11818 Oct 03 07:50	6° ™ 44'43		evening max el	11819 Sep 04 19:09	12° ≏ 36'12	19°21'08
evening set	11818 Oct 05 10:32	6° ™ 33'37		retrograde	11819 Sep 14 04:41	17° ≏ 17'09	
inferior conj	11818 Oct 14 11:55	2°M37'34		evening set	11819 Sep 16 00:59	17° ≏ 07'06	
minimum elong	11818 Oct 14 01:55	2°M52'05		desc. node	11819 Sep 16 14:40	17° 2 00'05	
min. Earth dist.	11818 Oct 15 18:39	1°M52'50	0.54726 AU	inferior conj	11819 Sep 24 16:16	12° Ω 58'57	
	11818 Oct 19 05:47	30° ₹ Ω		minimum elong	11819 Sep 24 09:39	13° Ω 09'45	2°28'09
morning rise	11818 Oct 22 16:48	28° Ω 36'14		min. Earth dist.	11819 Sep 27 05:51	11° £ 18'35 8° £ 26'23	0.55736 AU
direct	11818 Oct 27 01:55 11818 Nov 03 13:26	27° £ 54'56 0° IL		morning rise direct	11819 Oct 02 15:48 11819 Oct 07 20:58	8° <u>≈</u> 26'23 7° <u>≈</u> 24'40	
morning max el	11818 Nov 09 10:44	4°M25'00	23°36'50	morning max el	11819 Oct 07 20:38 11819 Oct 21 21:31	7 <u>≈</u> 24 40 14° <u>≈</u> 29'14	25°22'10
asc. node	11818 Nov 23 09:16	23°M11'48	23 30 30	morning max cr	11819 Nov 03 04:24	0°M	23 22 10
asc. node	11818 Nov 27 02:42	0° √		asc. node	11819 Nov 10 06:08	12°ML07'33	
morning set	11818 Dec 03 07:02	12° ∡ ³34'58		morning set	11819 Nov 17 18:39	27°M18'29	
					11819 Nov 19 00:35	0° ₹	
superior conj	11818 Dec 10 04:19	27° ∡ ³30′24	1°38'10			•	
minimum elong	11818 Dec 10 04:54	27° ∡ ³33'35	1°38'55	superior conj	11819 Nov 24 13:52	12° ∡ 13'47	1°38'22
Ç	11818 Dec 11 08:04	5°0		minimum elong	11819 Nov 24 13:20	12° ∡ 10′52	1°39'05
max. Earth dist.	11818 Dec 12 21:35	3° ප් 20'12	1.33086 AU	max. Earth dist.	11819 Nov 26 01:04	15° ∡ ¹27'33	1.32025 AU
evening rise	11818 Dec 17 20:03	13° る 31'07		evening rise	11819 Dec 01 17:30	27° ∡ ³36'57	
desc. node	11818 Dec 26 15:12	29° る 59'32			11819 Dec 02 21:24	ರ°0	
	11818 Dec 26 15:18	0° ≈		desc. node	11819 Dec 13 12:12	19° る 48'21	
	11819 Jan 16 05:27	0°) €			11819 Dec 19 21:52	0° ≈	
evening max el	11819 Jan 20 23:26	5° ₩ 00'30	27°24'24	evening max el	11820 Jan 03 09:59	17° ≈ 56′52	27°30'39
retrograde	11819 Feb 03 14:35	12° ∺ 25′23		retrograde	11820 Jan 17 06:21	25° ≈ 16′14	
evening set	11819 Feb 10 10:21	9°) 54'40		evening set	11820 Jan 24 05:41	22° ≈ 55'45	
min. Earth dist.	11819 Feb 14 06:20	6°) €27'06	0.64333 AU	min. Earth dist.	11820 Jan 27 23:25	19° ≈ 55'28	0.62390 AU

inferior conj	11820 Jan 30 21:24	17° ≈ 09'56	-2°04'00	inferior conj	11821 Jan 12 09:40	0° ≈ 01'47	
minimum elong	11820 Jan 31 01:35	16° ≈ 59'59	2°01'44	minimum elong	11821 Jan 12 16:38	29° る 47'18	3°19'30
asc. node	11820 Feb 06 05:09	12° ≈ 21'27			11821 Jan 12 10:31	30°₹⋜	
morning rise	11820 Feb 07 00:02	12° ≈ 03'02		morning rise	11821 Jan 20 02:09	25° る 14'57	
direct	11820 Feb 09 06:02	11° ≈ 40′01		direct	11821 Jan 22 04:38	24° る 57'42	
morning max el	11820 Feb 15 23:24	15° ≈ 05'27	17°47'23	asc. node	11821 Jan 23 02:25	25° පි 01'01	
	11820 Feb 26 08:54	0° ∀		morning max el	11821 Jan 29 13:46	28° る 38'40	18°02'18
morning set	11820 Mar 02 20:53	9° ∺ 37'05			11821 Jan 30 20:37	0° ≈	
desc. node	11820 Mar 10 12:57	23° ∺ 01'34		morning set	11821 Feb 14 04:09	23° ≈ 16′14	
					11821 Feb 17 19:24	0°) €	
superior conj	11820 Mar 14 10:25	29°) 38′29	-0°29'32				
minimum elong	11820 Mar 14 07:32	29° ∺ 26′19	0°29'01	superior conj	11821 Feb 24 04:24	11° ∺ 31'48	0°09'29
	11820 Mar 14 15:33	0° Y		minimum elong	11821 Feb 24 05:11	11° ∺ 35′18	0°09'41
max. Earth dist.	11820 Mar 21 06:09	10° Ƴ 51'35	1.43909 AU	behind sun begin	11821 Feb 23 22:52	11° ∺ 07'21	
evening rise	11820 Mar 29 02:18	23° Y 14'03		behind sun end	11821 Feb 24 11:29	12° ∺ 03′10	
	11820 Apr 02 12:16	0° 8		desc. node	11821 Feb 25 09:36	13°) 40′21	
	11820 Apr 23 14:45	Π $\circ 0$		max. Earth dist.	11821 Mar 03 19:08	24°) €36′09	1.42124 AU
evening max el	11820 Apr 28 16:37	5° Ⅱ 47'36	21°16'56		11821 Mar 07 01:53	0 ° Υ	
asc. node	11820 May 04 02:24	10° Ⅱ 01'49		evening rise	11821 Mar 09 05:42	3° Y 28'46	
retrograde	11820 May 07 10:25	10° Ⅱ 54'40			11821 Mar 26 20:35	9° 8	
evening set	11820 May 11 18:42	9° Ⅱ 09'56		evening max el	11821 Apr 11 10:05	19° 8 34'55	22°34'20
inferior conj	11820 May 17 01:05	2° Ⅱ 56′21	3°05'25	asc. node	11821 Apr 20 23:41	25° 8 24'44	
minimum elong	11820 May 16 23:50	3° Ⅱ 00'41	3°04'36	retrograde	11821 Apr 21 07:23	25° 8 25'13	
min. Earth dist.	11820 May 17 08:34	2° Ⅲ 30′20	0.68560 AU	evening set	11821 Apr 26 02:42	23° 8 25'16	
	11820 May 19 04:57	30° ₹ 8		inferior conj	11821 May 01 10:25	17° 8 02'24	2°45'39
morning rise	11820 May 22 04:46	26° 8 40'37		minimum elong	11821 May 01 08:31	17° 8 08'59	2°44'44
direct	11820 May 27 08:40	24° 8 25'18		min. Earth dist.	11821 May 01 05:04	17° 8 21'01	0.68778 AU
	11820 Jun 06 02:48	Π °0		morning rise	11821 May 06 14:14	10° 8 52'32	
morning max el	11820 Jun 06 15:48	0° Ⅲ 32′18	23°09'16	direct	11821 May 11 04:50	8° 8 57'25	
desc. node	11820 Jun 06 14:10	0° Ⅱ 28′10		morning max el	11821 May 20 05:23	14° 8 12'19	21°42'04
	11820 Jun 28 21:08	0 \circ		desc. node	11821 May 24 11:05	18° 8 54'30	
morning set	11820 Jul 11 06:16	19° © 38'43			11821 Jun 01 21:24	Π °0	
max. Earth dist.	11820 Jul 15 12:00	26° © 50'05	1.39707 AU	morning set	11821 Jun 21 10:19	29° Ⅱ 20'19	
	11820 Jul 17 07:40	0 ° Ω			11821 Jun 21 20:16	0°9	
				max. Earth dist.	11821 Jun 27 13:43	18′06ف€9	1.41933 AU
	11000 T 1 00 05 01	100 0 27122	1000140				
superior conj	11820 Jul 23 05:31	10° Ω 37'33				220611157	1040121
minimum elong	11820 Jul 23 10:22	10° Ω 59'55	-1°08'49 1°08'42	superior conj	11821 Jul 05 04:01	22°©11'57	
minimum elong asc. node	11820 Jul 23 10:22 11820 Jul 31 01:39	10° Ω 59'55 25° Ω 26'00		superior conj minimum elong	11821 Jul 05 04:01 11821 Jul 05 10:42	22°5541'04	
minimum elong	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11	10°Ω59'55 25°Ω26'00 28°Ω45'33		minimum elong	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54	22°541′04 0° Ω	
minimum elong asc. node evening rise	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° \$\Omega\$	1°08'42	minimum elong evening rise	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30	22°€41'04 0°Ω 11°Ω51'59	
minimum elong asc. node evening rise	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28	10° \$\Omega 59'55\$ 25° \$\Omega 26'00\$ 28° \$\Omega 45'33\$ 0° \$\Omega\$ 24° \$\Omega 42'53\$	1°08'42	minimum elong	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28	22°541'04 0°N 11°N51'59 15°N13'10	
minimum elong asc. node evening rise evening max el retrograde	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48	10° \$\Omega 59'55\\ 25° \$\Omega 26'00\\ 28° \$\Omega 45'33\\ 0° \$\mathrm{m}\\ 24° \$\mathrm{m}\d2'53\\ 28° \$\mathrm{m}\d3'12	1°08'42	minimum elong evening rise asc. node	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\text{m}\$	1°40'31
minimum elong asc. node evening rise evening max el retrograde evening set	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41	10° \$\Omega 59'55\ 25° \$\Omega 26'00\ 28° \$\Omega 45'33\ 0° mp\ 24° mp 42'53\ 28° mp 43'12\ 28° mp 28'58	1°08'42	minimum elong evening rise asc. node evening max el	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$7\$\$\Omega\$70'8	
minimum elong asc. node evening rise evening max el retrograde evening set desc. node	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05	10° \$\Omega 59'55\ 25° \$\Omega 26'00\ 28° \$\Omega 45'33\ 0° mp\ 24° mp 42'53\ 28° mp 43'12\ 28° mp 28'58\ 25° mp 38'48	1°08'42 18°35'11	minimum elong evening rise asc. node evening max el retrograde	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 08 05:40	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$ 7°\$\Omega\$26'08 10°\$\Omega\$59'35	1°40'31
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56	10° \$\Omega 59'55\ 25° \$\Omega 26'00\ 28° \$\Omega 45'33\ 0° \$\mathref{m}\ 24° \$\mathref{m} 42'53\ 28° \$\mathref{m} 28'58\ 25° \$\mathref{m} 38'48\ 24° \$\mathref{m} 01'10\ \end{array}	1°08'42 18°35'11 -0°41'16	evening rise asc. node evening max el retrograde evening set	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 08 05:40 11821 Aug 10 12:42	22°\$41'04 0°\$ 11°\$51'59 15°\$13'10 0°\$ 7°\$\$26'08 10°\$\$59'35 10°\$\$37'10	1°40'31 18°09'52
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° \$\mathred{m}\$ 24° \$\mathred{m}\$ 42'53 28° \$\mathred{m}\$ 43'12 28° \$\mathred{m}\$ 28'58 25° \$\mathred{m}\$ 38'48 24° \$\mathred{m}\$ 01'10 24° \$\mathred{m}\$ 04'18	1°08'42 18°35'11 -0°41'16 0°40'46	evening rise asc. node evening max el retrograde evening set inferior conj	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 10 12:42	22°\$41'04 0°\$ 11°\$51'59 15°\$13'10 0°\$ 7°\$26'08 10°\$59'35 10°\$37'10 5°\$48'47	1°40'31 18°09'52 0°49'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21	10° \$\Omega 59'55\ 25° \$\Omega 26'00\ 28° \$\Omega 45'33\ 0° \$\mathref{m}\ 24° \$\mathref{m} 42'53\ 28° \$\mathref{m} 24'53\ 28° \$\mathref{m} 28'58\ 25° \$\mathref{m} 38'48\ 24° \$\mathref{m} 01'10\ 24° \$\mathref{m} 04'18\ 21° \$\mathref{m} 34'13\ \end{array}	1°08'42 18°35'11 -0°41'16	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44	22°\$41'04 0°\$ 11°\$51'59 15°\$13'10 0°\$ 7°\$26'08 10°\$59'35 10°\$59'35 10°\$\$48'47 5°\$\$45'19	1°40'31 18°09'52
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27	10° \$\Omega 59'55\ 25° \$\Omega 26'00\ 28° \$\Omega 45'33\ 0° \$\mu\ 24° \$\mu\ 42'53\ 28° \$\mu\ 24° \$\mu\ 01'10\ 24° \$\mu\ 04'18\ 21° \$\mu\ 34'13\ 18° \$\mu\ 51'00\ \end{array}	1°08'42 18°35'11 -0°41'16 0°40'46	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 08 05:40 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30	22°\$41'04 0°Ω 11°Ω51'59 15°Ω13'10 0°™ 7°™26'08 10°™59'35 10°™37'10 5°™48'47 5°™45'19 3°™20'54	1°40'31 18°09'52 0°49'40 0°48'42
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46	10° \$\Omega 59'55\ 25° \$\Omega 26'00\ 28° \$\Omega 45'33\ 0° \$\mu\ 24° \$\mu\ 42'53\ 28° \$\mu\ 28'58\ 25° \$\mu\ 38'48\ 24° \$\mu\ 01'10\ 24° \$\mu\ 04'18\ 21° \$\mu\ 34'13\ 18° \$\mu\ 51'00\ 17° \$\mu\ 23'02	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28	22°\$41'04 0°Ω 11°Ω51'59 15°Ω13'10 0°™ 7°™26'08 10°™59'35 10°™37'10 5°™48'47 5°™48'47 3°™20'54 2°™53'06	1°40'31 18°09'52 0°49'40
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° \$\mathred{m}\$ 24° \$\mathred{m} 42'53 28° \$\mathred{m} 28'58 25° \$\mathred{m} 38'48 24° \$\mathred{m} 01'10 24° \$\mathred{m} 04'18 21° \$\mathred{m} 34'13 18° \$\mathred{m} 51'00 17° \$\mathred{m} 23'02 24° \$\mathred{m} 54'13	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 08 05:40 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$ 7°\$\Omega\$26'08 10°\$\Omega\$7'10 5°\$\Omega\$48'47 5°\$\Omega\$48'47 20'\$54 20\$\Omega\$53'06 0°\$\Omega\$05'53	1°40'31 18°09'52 0°49'40 0°48'42
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° \$\mu\$ 24° \$\mu 42'53 28° \$\mu 43'12 28° \$\mu 28'58 25° \$\mu 38'48 24° \$\mu 01'10 24° \$\mu 04'18 21° \$\mu 34'13 18° \$\mu 51'00 17° \$\mu 23'02 24° \$\mu 54'13 0° \$\Omega\$	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 21:32	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$7'08 10°\$\Omega\$7'10 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$45'19 3°\$\Omega\$20'54 2°\$\Omega\$3'06 0°\$\Omega\$8\$\Omega\$8\$\Omega\$	1°40'31 18°09'52 0°49'40 0°48'42
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° my 24° my 42'53 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\Omega\$ 0° m.	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 21:32 11821 Aug 31 04:02	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$7'08 10°\$\Omega\$7'10 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'51'9 3°\$\Omega\$20'54 2°\$\Omega\$53'06 0°\$\Omega\$05'53 30°\$\Omega\$021	1°40'31 18°09'52 0°49'40 0°48'42
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° my 24° my 42'53 28° my 43'12 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\Omega\$ 0° m. 1° m\Omega 29'50	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 31 04:02 11821 Sep 06 18:08	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$7'08 10°\$\Omega\$7'10 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'51'9 3°\$\Omega\$20'54 2°\$\Omega\$53'06 0°\$\Omega\$05'53 30°\$\Omega\$0 28°\$\Omega\$09'21 0°\$\Omega\$	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32	10° \$\Omega 59'55 25° \$\Omega 26'00 28° \$\Omega 45'33 0° my 24° my 42'53 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\Omega\$ 0° m.	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	11821 Jul 05 04:01 11821 Jul 09 13:54 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 21:32 11821 Aug 31 04:02 11821 Sep 06 18:08 11821 Sep 14 12:21	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$7'08 10°\$\Omega\$7'10 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'47 5°\$\Omega\$48'51'9 3°\$\Omega\$20'54 2°\$\Omega\$53'06 0°\$\Omega\$05'53 30°\$\Omega\$0 28°\$\Omega\$09'21 0°\$\Omega\$6\$\Omega\$00'08	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 07 06:19 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31	10° \$\Pi 55'55 25° \$\Pi 26'00 28° \$\Pi 45'33 0° m 24° m 42'53 28° m 43'12 28° m 28'58 25° m 38'48 24° m 01'10 24° m 04'18 21° m 34'13 18° m 51'00 17° m 23'02 24° m 54'13 0° \Pi 0° m 1° m 29'50 11° m 54'02	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 31 04:02 11821 Sep 06 18:08 11821 Sep 14 12:21 11821 Oct 02 11:08	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\Omega\$7'\Omega\$	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31	10° \$\Pi 55'55 25° \$\Pi 26'00 28° \$\Pi 45'33 0° \$\pi \text{245'33} 0° \$\pi \text{245'53} 28° \$\pi 43'12 28° \$\pi 28'58 25° \$\pi 38'48 24° \$\pi 01'10 24° \$\pi 04'18 21° \$\pi 34'13 18° \$\pi 51'00 17° \$\pi 23'02 24° \$\pi 54'13 0° \$\Pi \text{00} 1° \$\pi 29'50 11° \$\pi 54'02 26° \$\pi 59'48	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 31 04:02 11821 Sep 14 12:21 11821 Oct 02 11:08 11821 Oct 02 11:08	22°\$41'04 0°\$Ω 11°\$Ω51'59 15°\$Ω13'10 0°\$m 7°\$m\$26'08 10°\$m\$59'35 10°\$m\$37'10 5°\$m\$48'47 5°\$m\$45'19 3°\$m\$20'54 2°\$m\$53'06 0°\$m\$05'53 30°\$R\$Ω 28°\$Ω09'21 0°\$m\$6°\$m\$00'08 0°\$\Oldsymbol{\Olds	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU
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minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31 11820 Nov 08 01:22 11820 Nov 08 09:13 11820 Nov 08 09:13 11820 Nov 09 09:44	10° \$\Pi\$59'55 25° \$\Pi\$26'00 28° \$\Pi\$45'33 0° mp 24° mp42'53 28° mp43'12 28° mp28'58 25° mp38'48 24° mp01'10 24° mp04'18 21° mp34'13 18° mp51'00 17° mp23'02 24° mp54'13 0° \$\Pi\$ 0° m. 1° m29'50 11° m.54'02 26° m.59'48 26° m.51'41 27° m.43'34 0° \$\Pi\$	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45 1°32'40 1°33'12	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 31 04:02 11821 Sep 16 18:08 11821 Oct 02 11:08 11821 Oct 13 23:40 11821 Oct 16 10:48	22°\$41'04 0°\$Ω 11°\$Ω51'59 15°\$Ω13'10 0°\$\$\$ 7°\$\$\$\$26'08 10°\$\$\$9'35 10°\$\$\$\$9'35 10°\$\$\$\$\$9'35 10°\$	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU
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minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 18 05:46 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31 11820 Nov 08 01:22 11820 Nov 08 09:13 11820 Nov 09 09:44 11820 Nov 09 09:44 11820 Nov 04 01:07	10° \$\mathbb{\alpha}59'55 25° \$\mathbb{\alpha}26'00 28° \$\mathbb{\alpha}45'33 0° mp 24° mp 42'53 28° mp 28'58 25° mp 38'48 24° mp 01'10 24° mp 04'18 21° mp 34'13 18° mp 51'00 17° mp 23'02 24° mp 54'13 0° \$\mathbb{\alpha}\$ 0° m\tag{1}\$ 1° m\tag{29'50} 11° m\tag{54'102} 26° m\tag{51'41} 27° m\tag{43'34} 0° \$\mathbb{\alpha}\$ 11° \$\mathbb{\alpha}58'58 0° \$\mathbb{\alpha}\$	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45 1°32'40 1°33'12	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist.	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 24 11:32 11821 Aug 24 11:32 11821 Aug 31 04:02 11821 Sep 14 12:21 11821 Oct 13 23:40 11821 Oct 13 12:49 11821 Oct 14 10:48 11821 Oct 18 04:59 11821 Oct 22 18:10	22°\$41'04 0°\$Ω 11°\$Ω51'59 15°\$Ω13'10 0°\$\$\$ 7°\$	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU 27°42'34 1.31363 AU 1°21'21
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minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31 11820 Nov 08 01:22 11820 Nov 08 01:22 11820 Nov 08 09:13 11820 Nov 09 09:44 11820 Nov 14 21:36 11820 Nov 24 01:07 11820 Nov 29 09:18 11820 Dec 15 10:53	10° \$\alpha 59'55 25° \$\alpha 26'00 28° \$\alpha 45'33 0° my 24° my 42'53 28° my 43'12 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\alpha\$ 0° m. 1° m. 29'50 11° m. 54'02 26° m. 59'48 26° m. 51'41 27° m. 43'34 0° \$\alpha\$ 11° \$\alpha 58'58 0° \$\alpha\$ 9° \$\alpha 07'29 0° \$\alpha\$	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45 1°32'40 1°33'12 1.31446 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist.	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 21:32 11821 Aug 24 21:32 11821 Aug 31 04:02 11821 Sep 14 12:21 11821 Oct 13 23:40 11821 Oct 13 23:40 11821 Oct 14 10:48 11821 Oct 23 12:52 11821 Oct 23 12:52 11821 Oct 23 10:48 11821 Oct 23 10:60	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\mathred{m}\$ 7°\$\mathred{m}\$26'08 10°\$\mathred{m}\$37'10 5°\$\mathred{m}\$48'47 5°\$\mathred{m}\$45'19 3°\$\mathred{m}\$20'54 2°\$\mathred{m}\$53'06 0°\$\mathred{m}\$05'53 30°\$\mathred{A}\$ 28°\$\Omega\$09'21 0°\$\mathred{m}\$6°\$\mathred{m}\$00'08 0°\$\omega\$ 21°\$\omega\$10'44 26°\$\omega\$15'57 0°\$\mathred{m}\$42'05 11°\$\mathred{m}\$42'05 11°\$\mathred{m}\$42'05 11°\$\mathred{m}\$43'10	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU 27°42'34 1.31363 AU 1°21'21
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31 11820 Nov 08 01:22 11820 Nov 08 01:22 11820 Nov 09 09:44 11820 Nov 09 09:44 11820 Nov 24 01:07 11820 Nov 29 09:18 11820 Nov 29 09:18 11820 Dec 15 10:53 11820 Dec 15 15:24	10° \$\Pi 55' 55' 525° \$\Pi 26'00 28° \$\Pi 45'33 0° my 24° my 42'53 28° my 43'12 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\Pi\$ 0° m\ 1° \Pi 29'50 11° \Pi 54'02 26° \Pi 59'48 26° \Pi 51'41 27° \Pi 43'34 0° \$\Pi\$ 11° \$\Pi 58'58 0° \$\Pi\$ 9° \$\Pi 07'29	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45 1°32'40 1°33'12	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist.	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 24 17:32 11821 Aug 24 17:32 11821 Aug 24 21:32 11821 Aug 24 17:32 11821 Aug 31 04:02 11821 Sep 14 12:21 11821 Oct 02 11:08 11821 Oct 13 23:40 11821 Oct 13 23:40 11821 Oct 23 12:52 11821 Oct 23 10:48 11821 Oct 23 10:48 11821 Oct 30 06:00 11821 Oct 31 21:29	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\mathred{m}\$ 7°\$\mathred{m}\$26'08 10°\$\mathred{m}\$37'10 5°\$\mathred{m}\$48'47 5°\$\mathred{m}\$45'19 3°\$\mathred{m}\$20'54 2°\$\mathred{m}\$53'06 0°\$\mathred{m}\$05'53 30°\$\mathred{n}\$\Omega\$221 0°\$\mathred{m}\$6"\$\mathred{m}\$00'08 0°\$\omega\$21°\$\Omega\$10'44 26°\$\Omega\$15'57 0°\$\mathred{m}\$.9°\$\mathred{m}\$58'02 11°\$\mathred{m}\$42'05 11°\$\mathred{m}\$30'35 26°\$\mathred{m}\$30'10 0°\$\nackled{\sigma}\$	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU 27°42'34 1.31363 AU 1°21'21
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31 11820 Nov 08 01:22 11820 Nov 08 01:22 11820 Nov 08 09:13 11820 Nov 09 09:44 11820 Nov 14 21:36 11820 Nov 24 01:07 11820 Nov 29 09:18 11820 Dec 15 10:53	10° \$\mathbb{\alpha}59'55 25° \$\mathbb{\alpha}26'00 28° \$\mathbb{\alpha}45'33 0° my 24° my 42'53 28° my 43'12 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\mathbb{\alpha}\$ 0° m. 1° m. 29'50 11° m. 54'02 26° m. 59'48 26° m. 51'41 27° m. 43'34 0° \$\mathbb{\alpha}\$ 11° \$\mathbb{\alpha}58'58 0° \$\mathbb{\alpha}\$ 9° \$\mathbb{\alpha}07'29 0° \$\alpha\$ 0° \$\alpha\$ 0° \$\mathbb{\alpha}\$ 0° \$\m	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45 1°32'40 1°33'12 1.31446 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 21:32 11821 Aug 24 21:32 11821 Aug 31 04:02 11821 Sep 14 12:21 11821 Oct 13 23:40 11821 Oct 13 23:40 11821 Oct 14 10:48 11821 Oct 23 12:52 11821 Oct 23 12:52 11821 Oct 23 10:48 11821 Oct 23 10:60	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\mathred{m}\$ 7°\$\mathred{m}\$26'08 10°\$\mathred{m}\$37'10 5°\$\mathred{m}\$48'47 5°\$\mathred{m}\$45'19 3°\$\mathred{m}\$20'54 2°\$\mathred{m}\$53'06 0°\$\mathred{m}\$05'53 30°\$\mathred{A}\$ 28°\$\Omega\$09'21 0°\$\mathred{m}\$6°\$\mathred{m}\$00'08 0°\$\omega\$ 21°\$\omega\$10'44 26°\$\omega\$15'57 0°\$\mathred{m}\$42'05 11°\$\mathred{m}\$42'05 11°\$\mathred{m}\$42'05 11°\$\mathred{m}\$43'10	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU 27°42'34 1.31363 AU 1°21'21
minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11820 Jul 23 10:22 11820 Jul 31 01:39 11820 Aug 01 19:11 11820 Aug 02 10:43 11820 Aug 17 20:28 11820 Aug 25 19:48 11820 Aug 27 19:41 11820 Sep 02 12:05 11820 Sep 04 16:56 11820 Sep 04 15:17 11820 Sep 07 22:21 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Sep 12 07:27 11820 Oct 02 13:11 11820 Oct 07 06:19 11820 Oct 26 08:32 11820 Oct 27 02:56 11820 Nov 01 04:31 11820 Nov 08 01:22 11820 Nov 08 01:22 11820 Nov 09 09:44 11820 Nov 09 09:44 11820 Nov 14 21:36 11820 Nov 29 09:18 11820 Nov 29 09:18 11820 Dec 15 10:53 11820 Dec 15 15:24 11820 Dec 29 13:33	10° \$\mathbb{\alpha}59'55 25° \$\mathbb{\alpha}26'00 28° \$\mathbb{\alpha}45'33 0° my 24° my 42'53 28° my 43'12 28° my 28'58 25° my 38'48 24° my 01'10 24° my 04'18 21° my 34'13 18° my 51'00 17° my 23'02 24° my 54'13 0° \$\mathbb{\alpha}\$ 0° m\tag{1} 1° m\tag{2}9'50 11° m\tag{5}9'48 26° m\tag{5}9'48 26° m\tag{5}1'41 27° m\tag{3}34 0° \$\mathbb{\alpha}\$ 11° \$\mathbb{\alpha}58'58 0° \$\mathbb{\alpha}\$ 9° \$\mathbb{\alpha}07'29 0° \$\infty\$ 0° \$\infty\$ 0° \$\mathbb{\alpha}\$ 0° \$\mathbb{\alpha}\$ 0° \$\mathbb{\alpha}\$ 0° \$\mathbb{\alpha}\$ 0° \$\mathbb{\alpha}\$ 11° \$\mathbb{\alpha}58'58 0° \$\mathbb{\alpha}\$ 0° \$\mathbb{\alpha}\$ 0° \$\mathbb{\alpha}\$ 10' 46 7° \$\infty\$ 21'58	1°08'42 18°35'11 -0°41'16 0°40'46 0.57470 AU 26°48'45 1°32'40 1°33'12 1.31446 AU 27°03'25	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	11821 Jul 05 04:01 11821 Jul 05 10:42 11821 Jul 09 13:54 11821 Jul 16 02:30 11821 Jul 17 22:28 11821 Jul 26 11:44 11821 Aug 01 05:45 11821 Aug 10 12:42 11821 Aug 17 15:11 11821 Aug 17 16:44 11821 Aug 20 09:30 11821 Aug 20 22:28 11821 Aug 24 17:32 11821 Aug 24 21:32 11821 Aug 24 21:32 11821 Aug 31 04:02 11821 Sep 14 12:21 11821 Oct 13 23:40 11821 Oct 13 23:40 11821 Oct 14 10:48 11821 Oct 23 12:52 11821 Oct 23 10:48 11821 Oct 23 10:48 11821 Oct 31 06:00 11821 Oct 31 21:29	22°\$41'04 0°\$\Omega\$ 11°\$\Omega\$51'59 15°\$\Omega\$13'10 0°\$\mathrm{m}\$70'\$\mathrm{m}\$26'08 10°\$\mathrm{m}\$37'10 5°\$\mathrm{m}\$48'47 5°\$\mathrm{m}\$45'19 3°\$\mathrm{m}\$20'54 2°\$\mathrm{m}\$53'06 0°\$\mathrm{m}\$05'53 30°\$\mathrm{n}\$\Omega\$221 0°\$\mathrm{m}\$6°\$\mathrm{m}\$00'08 0°\$\omega\$21°\$\omega\$10'44 26°\$\omega\$15'57 0°\$\mathrm{m}\$.42'05 11°\$\mathrm{m}\$.42'05 11°\$\mathrm{m}\$.42'28	1°40'31 18°09'52 0°49'40 0°48'42 0.59631 AU 27°42'34 1.31363 AU 1°21'21 1°21'34

	11021 D 11 10.54	100=225122			11922 N 29 02-50	279.755110	
retrograde	11821 Dec 11 10:54	18°る35'22		evening set	11822 Nov 28 03:50	27° 🗷 55'10	0.56210.441
evening set	11821 Dec 17 18:42	17°る00'33	0.501/0.477	min. Earth dist.	11822 Dec 03 13:57	25° ⋌ ¹06'47	0.56310 AU
min. Earth dist.	11821 Dec 22 01:47	14° る 24'57		inferior conj	11822 Dec 06 01:06	23° ⋌ '33'37	
inferior conj	11821 Dec 25 03:39	12°る12'00		minimum elong	11822 Dec 06 06:51	23° ∡ ¹24'33	5°33'03
minimum elong	11821 Dec 25 12:02	11° ප් 56'54	4°35'08	morning rise	11822 Dec 14 12:01	19° ∡ ′30′25	
morning rise	11822 Jan 02 08:02	7° る 47'35		direct	11822 Dec 16 22:53	19° ∤ 14'08	
direct	11822 Jan 04 11:24	7° る 32'42		morning max el	11822 Dec 26 17:52	23° ∡ 55′27	19°34'51
asc. node	11822 Jan 09 23:37	9° ප 18'08		asc. node	11822 Dec 27 20:44	25° ∡ '03'28	
morning max el	11822 Jan 12 21:15	11° る 39'01	18°37'30		11822 Dec 31 20:01	0°ප	
	11822 Jan 25 01:47	0° ≈		morning set	11823 Jan 13 02:16	21° る 56'38	
morning set	11822 Jan 28 23:13	7° ≈ 26′24			11823 Jan 17 02:02	0° ≈	
superior conj	11822 Feb 06 18:58	24°≈21'55	0°42'11	superior conj	11823 Jan 21 01:25	7°≈55'25	1°07'19
minimum elong	11822 Feb 06 21:35	24°≈34'05	0°42'19	minimum elong	11823 Jan 21 04:20	8°≈09'43	1°07'36
minimum crong	11822 Feb 09 20:22	0° ∀	0 12 17	max. Earth dist.	11823 Jan 27 08:58	19° ≈ 57'33	1.37766 AU
desc. node	11822 Feb 12 06:15	4° ¥ 19'52		desc. node	11823 Jan 30 02:57	24°≈56'46	1.57700710
max. Earth dist.	11822 Feb 14 03:06	7°) € 37'04	1.39993 AU	evening rise	11823 Jan 31 02:23	26°≈40'47	
evening rise	11822 Feb 18 05:34	14° ¥ 37'42	1.57775 AU	evening rise	11823 Feb 02 00:00	0° ∺	
evening rise	11822 Feb 18 03:34 11822 Feb 27 19:45	0° Υ			11823 Feb 21 08:02	0° Υ	
	11822 Mar 21 19:44	0°8		avanina may al	11823 Mar 07 13:52	17° Υ 14'55	25°12'20
avanina may al	11822 Mar 21 19.44 11822 Mar 25 00:26	3° 8 23'57	23°55'02	evening max el	11823 Mar 19 15:18	17 1 14 33 24° Υ 14'27	23 12 20
evening max el		9° 8 53'48	23 33 02	retrograde		24 1 14 27 21° Y 50'22	
retrograde	11822 Apr 05 01:24 11822 Apr 07 21:02	9° 8 17'07		evening set	11823 Mar 25 10:02	21° Y 30′22 21° Y 32′09	
asc. node	1			asc. node	11823 Mar 25 18:23	16° Υ 56'49	0.67066 ATT
evening set	11822 Apr 10 08:20	7° 8 40'24	0.60520.441	min. Earth dist.	11823 Mar 29 19:51		0.67866 AU
min. Earth dist.	11822 Apr 15 01:34	2° 8 11'39	0.68538 AU	inferior conj	11823 Mar 31 01:32	15° Y 20′03	1°36'42
inferior conj	11822 Apr 15 19:12	1° 8 11'36	2°16'03	minimum elong	11823 Mar 30 23:34	15° Y 26′28	1°35'54
minimum elong	11822 Apr 15 17:02	1° 8 18'59	2°15'06	morning rise	11823 Apr 05 13:27	9° Y ′25′29	
	11822 Apr 16 16:22	30° Ŗ ♈		direct	11823 Apr 09 03:01	8° Y 12'24	
morning rise	11822 Apr 21 01:45	25° Y ′08'43		morning max el	11823 Apr 16 04:43	12° Y ′05'41	19°20'24
direct	11822 Apr 25 03:23	23° Y '35'01		desc. node	11823 Apr 28 04:36	27° Y ′42'32	
morning max el	11822 May 03 01:15	28° Y ′03'40	20°24'21	greatest brilliancy	11823 Apr 28 23:09	28° Y ′51′06	-0.7m
	11822 May 04 21:26	0° 8			11823 Apr 29 17:41	0°8	
desc. node	11822 May 11 07:53	8° 8 03'10		morning set	11823 May 10 17:07	16° 8 42'31	
	11822 May 26 09:31	Π °0			11823 May 19 06:51	Π °0	
morning set	11822 May 31 16:21	8° Ⅱ 05'39		max. Earth dist.	11823 May 23 12:11	6° Ⅱ 37'10	1.45100 AU
max. Earth dist.	11822 Jun 09 21:52	22° Ⅱ 37'13	1.43798 AU				
	11822 Jun 14 11:04	0 \circ \odot		superior conj	11823 May 27 03:24	12° Ⅱ 22'08	
				minimum elong	11823 May 27 03:15	12° Ⅱ 21'32	2°14'05
superior conj	11822 Jun 16 03:26	2° 5 346'14	-2°04'17		11823 Jun 07 01:03	0 \circ \odot	
minimum elong	11822 Jun 16 09:03	3° 5 09'29	2°04'46	evening rise	11823 Jun 10 10:52	5° 5 37'49	
evening rise	11822 Jun 28 17:24	24° © 13'21		asc. node	11823 Jun 21 16:19	23° © 56'35	
	11822 Jul 02 01:01	$0^{\circ}\Omega$			11823 Jun 25 21:03	$0^{\circ}\Omega$	
asc. node	11822 Jul 04 19:21	4° Ω 45′28		evening max el	11823 Jun 29 09:01	4° Ω 05'14	18°16'41
evening max el	11822 Jul 15 19:05	20° Ω 36'40	18°04'00	retrograde	11823 Jul 05 17:51	7° Ω 28'12	
retrograde	11822 Jul 22 06:31	23° Ω 57'53		evening set	11823 Jul 08 17:09	6° Ω 40'18	
evening set	11822 Jul 24 21:34	23° Ω 23'57		inferior conj	11823 Jul 14 15:29	1° Ω 15'36	2°40'07
inferior conj	11822 Jul 31 08:05	18° Ω 16′32	1°56'12	minimum elong	11823 Jul 14 17:50	1° Ω 08'54	2°38'54
minimum elong	11822 Jul 31 10:43	18° Ω 09'47	1°54'50		11823 Jul 15 17:49	30° ₹ॐ	
min. Earth dist.	11822 Aug 03 07:41	15° Ω 14'38	0.61914 AU	min. Earth dist.	11823 Jul 17 02:11	28° 5 28'35	0.64057 AU
morning rise	11822 Aug 06 21:29	12° Ω 11′26		morning rise	11823 Jul 20 17:04	24° © 58'25	
desc. node	11822 Aug 07 06:51	11° Ω 55'25		desc. node	11823 Jul 25 04:08	22° © 37'30	
direct	11822 Aug 13 13:45	9° Ω 50′02		direct	11823 Jul 27 08:36	22° © 21'07	
morning max el	11822 Aug 27 17:54	17° Ω 51'39	27°57'42		11823 Aug 09 18:24	$0^{\circ}\Omega$	
	11822 Sep 06 21:37	0° m)		morning max el	11823 Aug 10 03:18	0° Ω 22'15	27°35'42
	11822 Sep 25 06:09	0∘ ত			11823 Aug 31 22:50	0° m)	
morning set	11822 Sep 30 11:32	10° ≏ 19'06		morning set	11823 Sep 14 04:17	23° m 56'44	
asc. node	11822 Sep 30 20:22	11° ≏ 04'29			11823 Sep 17 04:15	0∘ ত	
max. Earth dist.	11822 Oct 06 00:02	22° ჲ 00'35	1.31791 AU	asc. node	11823 Sep 17 17:03	1° ≏ 05'57	
				max. Earth dist.	11823 Sep 18 23:06	3° ≏ 42'22	1.32745 AU
superior conj	11822 Oct 07 22:36	26° ≏ 15′25	1°04'34				
minimum elong	11822 Oct 07 20:21	26° ჲ 03'03	1°04'29	superior conj	11823 Sep 22 04:32	10° ≏ 33'48	0°42'31
	11822 Oct 09 15:19	0° M		minimum elong	11823 Sep 22 02:40	10° ≏ 23'45	0°42'13
evening rise	11822 Oct 14 16:46	11°ML05'23		evening rise	11823 Sep 29 04:02	25° ≏ 39'11	
	11822 Oct 24 04:39	0° ∡ ¹			11823 Oct 01 05:25	0° M	
desc. node	11822 Nov 03 03:43	15° ∡ ¹22'56			11823 Oct 19 10:59	0° ∡ ¹	
evening max el	11822 Nov 09 02:27	22° ∡ °04'32	24°33'57	desc. node	11823 Oct 21 01:02	1° ∡ ′40′37	
retrograde	11822 Nov 22 20:33	28° ∡ ¹57'30		evening max el	11823 Oct 21 12:51	2° ₹ 09'49	22°52'57

	11022 N 02 17 02	00 742146			110246 12 12 55	100 0 0 0 0 144	
retrograde	11823 Nov 03 17:03	8° 🗷 42'46		evening rise	11824 Sep 12 13:55	10° Ω 06'44	
evening set	11823 Nov 07 14:32	8° 🗷 09'45	0.55000 444		11824 Sep 22 22:18	0°M	21017120
min. Earth dist.	11823 Nov 14 21:38	4° ⋌ ¹50'24	0.55023 AU	evening max el	11824 Oct 02 05:09	12°M24'16	21°16'38
inferior conj	11823 Nov 16 03:37	4° ∡ ¹07'30		desc. node	11824 Oct 06 22:24	16° ™ 10′21	
minimum elong	11823 Nov 16 01:40	4° ≯ 10′18	5°49'05	retrograde	11824 Oct 14 04:43	18° ™ 21'27	
morning rise	11823 Nov 24 14:20	0° ≯ 18'33		evening set	11824 Oct 16 19:04	18° ™ 05'47	
	11823 Nov 26 10:39	30°RM		inferior conj	11824 Oct 25 19:45	14°ML11'02	-5°07'22
direct	11823 Nov 27 16:31	29°M56'18		minimum elong	11824 Oct 25 10:41	14° M 23'47	5°04'59
	11823 Nov 28 22:02	0° ∡ ¹		min. Earth dist.	11824 Oct 26 04:14	13°M59'08	0.54565 AU
morning max el	11823 Dec 09 00:38	5° ∡ 19'18	20°55'11	morning rise	11824 Nov 03 02:59	10°M20'46	
asc. node	11823 Dec 14 17:45	12° ₹ 00'50		direct	11824 Nov 07 00:43	9° ™ 47'57	
	11823 Dec 25 04:09	0°ਰ		morning max el	11824 Nov 19 18:23	15°M53'45	22°34'55
morning set	11823 Dec 28 10:26	° පි38'37		asc. node	11824 Nov 30 14:42	29°M54'25	22 3 1 3 3
morning set	11023 DCC 20 10.20	0 03037		asc. node	11824 Nov 30 14:42	2) 1103∓23 0° √ 1	
aumorior coni	11824 Jan 04 19:28	22° る 00'16	1°24'50	marning got	11824 Dec 11 21:23	21° × ⁷ 25'22	
superior conj				morning set			
minimum elong	11824 Jan 04 21:46	22°る12'05	1°25′22		11824 Dec 15 21:33	0°₹	
	11824 Jan 08 18:33	0° ≈				_	
max. Earth dist.	11824 Jan 09 17:58	1° ≈ 55′06	1.35675 AU	superior conj	11824 Dec 18 21:37	6° る 26'08	1°35'12
evening rise	11824 Jan 13 17:19	9° ≈ 30'02		minimum elong	11824 Dec 18 22:52	6° る 32'50	1°35'56
desc. node	11824 Jan 16 23:44	15° ≈ 27'15		max. Earth dist.	11824 Dec 22 09:49	13° る 48'10	1.33907 AU
	11824 Jan 25 14:53	0° ∀		evening rise	11824 Dec 26 22:41	22° る 55'20	
	11824 Feb 17 01:46	$0^{\circ}\mathbf{\Upsilon}$			11824 Dec 30 16:00	0° ≈	
evening max el	11824 Feb 18 03:33	1° Y '04'06	26°18'57	desc. node	11825 Jan 02 20:36	5° ≈ 46'12	
retrograde	11824 Mar 02 00:01	8° Ƴ 21'15			11825 Jan 18 07:30	0° ∀	
evening set	11824 Mar 08 06:06	5° Υ 50'13		evening max el	11825 Jan 30 17:06	14° ¥ 41'28	27°07'29
asc. node	11824 Mar 11 15:43	2° Υ 24'41		retrograde	11825 Feb 13 02:43	22°\(\frac{1}{20}\)	27 072)
		2 1 24 41 1° Υ 31'25	0.66700 AII	Č		19°) 32'49	
min. Earth dist.	11824 Mar 12 09:44		0.66788 AU	evening set	11825 Feb 19 18:31		0.65220.444
	11824 Mar 13 15:42	30° ₹		min. Earth dist.	11825 Feb 23 16:55	15°) (47'33	0.65328 AU
inferior conj	11824 Mar 14 03:27	29° ∺ 23'56	0°47'28	inferior conj	11825 Feb 25 22:36	13° ¥ 16′52	
minimum elong	11824 Mar 14 02:17	29° ∺ 27'33	0°47'07	minimum elong	11825 Feb 25 22:56	13° ¥ 15′56	
morning rise	11824 Mar 19 23:17	23°) 39'32		transit middle	11825 Feb 25 22:56	13° ¥ 15′56	0°11'21
direct	11824 Mar 23 02:00	22°) (44′46		transit begin	11825 Feb 25 20:49	13° ∺ 21'55	
morning max el	11824 Mar 29 15:17	26° ∺ 15′21	18°32'29	transit end	11825 Feb 26 01:03	13° ∺ 09'59	
	11824 Apr 01 23:01	$0^{\circ}\mathbf{\Upsilon}$		asc. node	11825 Feb 26 13:04	12°) 36′24	
desc. node	11824 Apr 14 01:15	17° Ƴ 44'37		morning rise	11825 Mar 04 04:51	7°) 45′01	
morning set	11824 Apr 19 11:15	26° Ƴ 15'32		direct	11825 Mar 06 22:05	7° ₩ 05'30	
Č	11824 Apr 21 20:17	0°8		morning max el	11825 Mar 13 06:49	10° ¥ 25'30	18°01'21
		• •			11825 Mar 26 23:56	0°Υ	
superior conj	11824 May 05 12:00	21° 8 23'32	-2°02'35	morning set	11825 Mar 31 09:44	7° Υ 12'51	
minimum elong	11824 May 05 04:38	20° 8 54'44	2°02'44	desc. node	11825 Mar 31 21:53	8° Υ '02'35	
max. Earth dist.		21° 8 03'58	1.45709 AU	desc. Hode	11023 Widi 31 21.33	8 1 02 33	
max. Earm dist.	11824 May 05 07:00		1.43709 AU		11025 4 14 21 50	00 0 2511 5	1022110
	11824 May 10 24:00	0°II		superior conj	11825 Apr 14 21:59	0° 8 35'15	
evening rise	11824 May 21 04:06	16° Ⅱ 02'20		minimum elong	11825 Apr 14 12:48	29° Y ′58′58	1°32'40
greatest brilliancy	11824 May 29 17:08	29° Ⅱ 33'19	-0.8m		11825 Apr 14 13:04	0°8	
	11824 May 29 23:57	0		max. Earth dist.	11825 Apr 18 03:19	5° 8 39'24	1.45567 AU
asc. node	11824 Jun 07 13:22	12° © 39'13		evening rise	11825 May 01 00:29	25° 8 39'27	
evening max el	11824 Jun 11 20:39	17° © 44'27	18°47'06		11825 May 03 20:11	Π $^{\circ}$ 0	
retrograde	11824 Jun 18 11:57	21° © 22'43		greatest brilliancy	11825 May 14 10:19	16° Ⅲ 03'54	-0.7m
evening set	11824 Jun 21 19:41	20° © 19'20			11825 May 24 18:38	0 \circ \odot	
inferior conj	11824 Jun 27 09:36	14° © 38'48	3°05'12	asc. node	11825 May 25 10:30	0°9343'15	
minimum elong	11824 Jun 27 11:00	14° © 34'25	3°04'15	evening max el	11825 May 26 03:46	1° 5 27'58	19°34'10
min. Earth dist.	11824 Jun 29 05:28	12°522'23	0.65879 AU	retrograde	11825 Jun 02 09:41	5° © 33'55	
morning rise	11824 Jul 03 01:34	8°916'56	0.05075110	evening set	11825 Jun 06 02:19	4°9514'25	
direct	11824 Jul 09 10:53	5°934'29		evening set	11825 Jun 10 04:25	30°RⅡ	
							2015102
desc. node	11824 Jul 11 01:21	5°543'33	0.00.4015.4	inferior conj	11825 Jun 11 11:08	28° Ⅱ 19'35	3°15'02
morning max el	11824 Jul 22 14:10	13°9521'54	26°42'54	minimum elong	11825 Jun 11 11:25	28° Ⅱ 18'37	3°14'14
	11824 Aug 05 00:39	0 $^{\circ}$ Ω		min. Earth dist.	11825 Jun 12 16:14	26° Ⅱ 43'07	0.67280 AU
	11824 Aug 23 15:07	0° m)		morning rise	11825 Jun 16 20:08	21° Ⅱ 57'45	
morning set	11824 Aug 27 10:02	7° m 01'41		direct	11825 Jun 22 19:27	19° Ⅱ 20′04	
max. Earth dist.	11824 Aug 31 12:41	15° m 01'39	1.34216 AU	desc. node	11825 Jun 27 22:28	20° Ⅲ 53′01	
asc. node	11824 Sep 03 13:44	21° Mp 11'20		morning max el	11825 Jul 05 00:44	26° Ⅲ 39′19	25°28'06
					11825 Jul 08 03:10	0ಂಣ	
superior conj	11824 Sep 05 04:25	24° Mp 31'22	0°15'34		11825 Jul 29 15:03	$0^{\circ}\Omega$	
minimum elong	11824 Sep 05 03:36	24° Mp 27'07	0°15'14	morning set	11825 Aug 10 01:01	19° Ω 24'29	
behind sun begin	11824 Sep 05 01:44	24° Mp 17'27		max. Earth dist.	11825 Aug 13 16:36	26° Ω 08'25	1.36135 AU
behind sun end	11824 Sep 05 05:27	24° Mp 36'48			11825 Aug 15 17:19	0° m)	
ocimia sun cha	11824 Sep 03 03.27 11824 Sep 07 19:04	ე∘ <u>ი</u>			11025 Aug 15 17.19	עויי	
	11027 SCP 0/ 13.04	v ==					

superior conj	11825 Aug 19 19:27	8° Mp 00'57	-0°15'32	superior conj	11826 Aug 02 22:07	20° Ω 53'31	-0°49'14
minimum elong	11825 Aug 19 20:25	8° Mp 05'50	0°15'42	minimum elong	11826 Aug 03 01:30	21°Ω09'37	
behind sun begin	11825 Aug 19 18:59	7° m) 58'38	0 13 12	minimum crong	11826 Aug 07 15:15	0° m	0 1511
behind sun end	11825 Aug 19 21:52	8° m 13'02		asc. node	11826 Aug 08 07:13	1° mp 18'20	
asc. node	11825 Aug 21 10:28	11° mp 16'53		evening rise	11826 Aug 11 20:22	8° m) 17'38	
evening rise	11825 Aug 27 20:15	24° m) 22'09		<i>8</i>	11826 Aug 24 02:05	0∘ <u>⊽</u>	
<i>8</i>	11825 Aug 30 15:14	0∘ <u>v</u>		evening max el	11826 Aug 28 05:19	4° Ω 59'30	18°58'58
evening max el	11825 Sep 14 10:25	23° ≏ 18'04	19°57'12	retrograde	11826 Sep 05 23:25	9° ჲ 21'58	
desc. node	11825 Sep 23 19:48	28° ≏ 24'59		evening set	11826 Sep 07 20:15	9° ≏ 10'48	
retrograde	11825 Sep 24 19:10	28° ≏ 27'37		desc. node	11826 Sep 10 17:14	8° ≏ 13'52	
evening set	11825 Sep 26 17:22	28° ≏ 17'43		inferior conj	11826 Sep 16 04:21	4° Ω 54'55	-1°42'55
inferior conj	11825 Oct 05 15:53	24° Ω 17'25	-3°35'02	minimum elong	11826 Sep 15 23:56	5° ഫ 02'38	1°41'11
minimum elong	11825 Oct 05 06:46	24° £ 31'15	3°31'42	min. Earth dist.	11826 Sep 19 02:37	2° £ 52'49	0.56394 AU
min. Earth dist.	11825 Oct 07 13:08	23° ჲ 08'46	0.55047 AU	morning rise	11826 Sep 24 00:28	0° ჲ 05'56	
morning rise	11825 Oct 13 18:51	20° ჲ 04'32			11826 Sep 24 06:09	30°R, Mp	
direct	11825 Oct 18 12:25	19° ≙ 15'41		direct	11826 Sep 29 13:13	28° m 53'37	
morning max el	11825 Nov 01 05:33	26° ≙ 01'02	24°23'01		11826 Oct 04 20:55	0∘ ত	
	11825 Nov 05 00:22	0° M		morning max el	11826 Oct 13 18:01	6° ≏ 11'22	26°02'21
asc. node	11825 Nov 17 11:36	18°M30'53			11826 Oct 31 04:19	0° M	
	11825 Nov 23 10:22	0° ∡ ¹		asc. node	11826 Nov 04 08:27	7°M38'39	
morning set	11825 Nov 26 09:16	6° ∡ 11'54		morning set	11826 Nov 10 20:20	20° ML $52'21$	
					11826 Nov 15 00:36	0° ∡ ¹	
superior conj	11825 Dec 03 05:10	21° ₹ 05'33	1°38'59				
minimum elong	11825 Dec 03 05:16	21° ₰ 06'07	1°39'46	superior conj	11826 Nov 17 15:47	5° ₹ 50'38	1°36'39
max. Earth dist.	11825 Dec 05 09:28	25° х 49′30	1.32570 AU	minimum elong	11826 Nov 17 14:50	5° х 45′21	1°37'19
	11825 Dec 07 08:22	5°0		max. Earth dist.	11826 Nov 18 15:08	8° ₮ 00'02	1.31712 AU
evening rise	11825 Dec 10 15:10	6° ප 48'41		evening rise	11826 Nov 24 15:42	21° х °01'41	
desc. node	11825 Dec 20 17:35	25° る 48'14			11826 Nov 29 02:02	ರ∘ರ	
	11825 Dec 23 05:08	0° ≈		desc. node	11826 Dec 07 14:37	15° る 25'15	
evening max el	11826 Jan 13 05:10	27° ≈ 55'45	27°30'52		11826 Dec 17 08:18	0°≈	
	11826 Jan 15 12:31	0°) €		evening max el	11826 Dec 26 13:37	10° ≈ 34′09	27°23'17
retrograde	11826 Jan 26 22:49	5°) 19′02		retrograde	11827 Jan 09 11:21	17° ≈ 51'10	
evening set	11826 Feb 02 20:56	2° 米 51′17		evening set	11827 Jan 16 10:19	15° ≈ 37'19	
	11826 Feb 06 05:46	30°R ≈		min. Earth dist.	11827 Jan 20 04:04	12° ≈ 46′31	0.61497 AU
min. Earth dist.	11826 Feb 06 15:29	29° ≈ 36′25	0.63538 AU	inferior conj	11827 Jan 23 05:19	10° ≈ 02′18	-2°37'08
inferior conj	11826 Feb 09 08:18	26° ≈ 52′28	-1°20'39	minimum elong	11827 Jan 23 10:44	9° ≈ 50'07	2°34'24
minimum elong	11826 Feb 09 10:54	26° ≈ 45'52	1°19'05	morning rise	11827 Jan 30 13:57	5° ≈ 03'50	
asc. node	11826 Feb 13 10:22	23° ≈ 08'35		asc. node	11827 Jan 31 07:39	4° ≈ 52'36	
morning rise	11826 Feb 16 03:05	21° ≈ 35'52		direct	11827 Feb 01 17:53	4° ≈ 43'50	
direct	11826 Feb 18 12:30	21° ≈ 07'59		morning max el	11827 Feb 08 17:06	8° ≈ 14'53	17°51'25
morning max el	11826 Feb 25 00:31	24° ≈ 28′30	17°47'24		11827 Feb 22 21:30	0° ∀	
	11826 Mar 01 13:28	0° ∀		morning set	11827 Feb 24 09:09	2°) 40′33	
morning set	11826 Mar 13 11:05	19° ∺ 27'32		desc. node	11827 Mar 05 15:11	19°) €07'44	
desc. node	11826 Mar 18 18:32	28°) ₹31'43					
	11826 Mar 19 15:26	0° Υ		superior conj	11827 Mar 07 05:49	21°) 54'23	
				minimum elong	11827 Mar 07 04:42	21°) 49′35	0°12'03
superior conj	11826 Mar 26 01:42	10° Y 40'19		behind sun begin	11827 Mar 06 23:04	21°) 25'24	
minimum elong	11826 Mar 25 20:06	10° ℃ 17'27	0°52'50	behind sun end	11827 Mar 07 10:20	22°) €13'43	
max. Earth dist.	11826 Mar 31 22:00	20° Y 05′23	1.44697 AU		11827 Mar 12 00:56	0° Υ	
	11826 Apr 07 05:31	0°8		max. Earth dist.	11827 Mar 14 12:48	4°Υ06'16	1.43198 AU
evening rise	11826 Apr 10 11:50	5° 8 01'59		evening rise	11827 Mar 21 05:47	14° Y 49'09	
	11826 Apr 27 06:16	0°П	20025156	. 1	11827 Mar 31 04:55	0°8	21040106
evening max el	11826 May 09 05:12	15° Ⅱ 12'55	20°35'56	evening max el	11827 Apr 22 01:12	28° 8 59'10	21°49'06
asc. node	11826 May 12 07:41	17° Ⅱ 56'40			11827 Apr 23 02:10	0°II	
retrograde	11826 May 17 08:37	19° ∏ 56′21		asc. node	11827 Apr 29 04:55	4° ∏ 04'42	
evening set	11826 May 21 10:51	18° Ⅱ 20'47	2012100	retrograde	11827 May 01 06:44	4° ∏ 25'13	
inferior conj	11826 May 26 17:25	12° Ⅱ 13'18		evening set	11827 May 05 19:30	2° ∏ 34'04	
minimum elong	11826 May 26 16:40	12° Ⅱ 15'52	3°11'22	infaria	11827 May 08 07:05	30°R8 36°¥16'00	2050117
min. Earth dist.	11826 May 27 08:32	11° Ⅱ 21'13	0.68225 AU	inferior conj	11827 May 11 02:12	26° 8 16'09	
morning rise	11826 May 31 22:14	5° ∏ 54'35		minimum elong	11827 May 11 00:39	26° 8 21'35	
direct	11826 Jun 06 09:28	3° ∏ 29'27		min. Earth dist.	11827 May 11 04:12	26° 8 09'09	0.68704 AU
desc. node	11826 Jun 14 19:32	7° Ⅱ 37'41	24900150	morning rise	11827 May 16 05:35	20° 8 02'29	
morning max el	11826 Jun 17 10:41	10° Ⅱ 06'18 0° ©	24°00'58	direct	11827 May 21 03:49	17° 8 55'19 23° 8 40'34	22021122
	11826 Jul 03 04:56 11826 Jul 22 08:06	0ა V		morning max el desc. node	11827 May 30 21:52	25° 8 32'41	22 31 22
marning act	11826 Jul 22 08:06 11826 Jul 22 20:26	0° Ω 52'46		desc. flode	11827 Jun 01 16:30 11827 Jun 05 11:52	0° Ⅱ	
morning set max. Earth dist.	11826 Jul 22 20:26 11826 Jul 26 14:15		1.38368 AU		11827 Jun 05 11:52 11827 Jun 26 13:54	0₀ © 0∘П	
man. Datui Uist.	11020 Jul 20 14.13	1 0624 34	1.50500 AU		1102/Jun 20 13.34	υ - 29	

morning set	11827 Jul 03 15:35	11° © 15'09		morning set	11828 Jun 12 09:03	20° Ⅱ 28'54	
max. Earth dist.	11827 Jul 08 12:28	19°520'42	1.40680 AU	S	11828 Jun 18 08:30	0ಂಣ	
	11827 Jul 14 15:58	0 ° Ω		max. Earth dist.	11828 Jun 19 16:52	2° © 11'27	1.42788 AU
superior conj	11827 Jul 16 08:16	3° Ω 00'04		superior conj	11828 Jun 26 21:22	14°909'56	
minimum elong	11827 Jul 16 14:05	3° Ω 26'14	1°22'43	minimum elong	11828 Jun 27 04:05	14°938'36	1°52'08
evening rise	11827 Jul 26 11:00	21° Ω 45'07		avanina rica	11828 Jul 05 22:48	0°Ω 4°Ω22128	
asc. node	11827 Jul 26 04:01 11827 Jul 30 21:10	21° Ω 12'11 0° m		evening rise asc. node	11828 Jul 08 11:55	4° Ω 33'38 10° Ω 53'35	
avanina may al	11827 Aug 11 10:39	0 ily 17° Mp 23'41	18°21'57	asc. node	11828 Jul 12 00:50 11828 Jul 24 14:13	0° m	
evening max el retrograde	11827 Aug 11 10.39 11827 Aug 18 22:34	21° M) 10'23	16 21 37	evening max el	11828 Jul 24 14:13	0° m 20'04	18°05'00
evening set	11827 Aug 18 22:34 11827 Aug 21 01:17	20° m 53'09		retrograde	11828 Jul 31 15:15	3° Mp 46'09	18 03 00
inferior conj	11827 Aug 28 14:25	16° Mp 16'52	0°00'10	evening set	11828 Aug 03 01:48	3° m) 19'02	
minimum elong	11827 Aug 28 14:24	16° Mp 16'52	0°00'06	evening sec	11828 Aug 08 02:36	30°RΩ	
transit middle	11827 Aug 28 14:24	16° Mp 16'52	0°00'06	inferior conj	11828 Aug 09 21:03	28° Ω 22'14	1°20'49
transit begin	11827 Aug 28 10:53	16° Mp 24'03		minimum elong	11828 Aug 09 23:17	28°Ω16'56	1°19'35
transit end	11827 Aug 28 17:55	16° m 09'40		min. Earth dist.	11828 Aug 13 01:57	25° Ω 21'21	0.60616 AU
desc. node	11827 Aug 28 14:37	16° Mp 16'26		desc. node	11828 Aug 14 11:59	24° Ω 08'01	
min. Earth dist.	11827 Aug 31 22:20	13° m 34'49	0.58362 AU	morning rise	11828 Aug 16 17:56	22° Ω 28'54	
morning rise	11827 Sep 05 00:01	10° m 51'44		direct	11828 Aug 23 07:52	20° Ω 21′01	
direct	11827 Sep 11 04:30	9° m 11'08		morning max el	11828 Sep 06 14:36	28° Ω 16'36	27°53'41
morning max el	11827 Sep 25 12:40	16° m 51'53	27°16'01		11828 Sep 08 06:50	0° m)	
	11827 Oct 06 08:49	0∘ ⊽			11828 Sep 29 04:43	0∘ ⊽	
asc. node	11827 Oct 22 05:15	27° ₽ 09'27		asc. node	11828 Oct 08 01:59	16° ≏ 56'28	
	11827 Oct 23 15:01	0° M		morning set	11828 Oct 09 09:03	19° ≏ 36'40	
morning set	11827 Oct 26 04:51	5°M22'12			11828 Oct 14 05:27	0° M	
				max. Earth dist.	11828 Oct 15 08:03	2°M26'16	1.31488 AU
superior conj	11827 Nov 02 03:30	20°M35'34	1°28'33				
minimum elong	11827 Nov 02 01:44	20°M25'44	1°28'57	superior conj	11828 Oct 16 14:29	5°M14'46	1°14'53
max. Earth dist.	11827 Nov 01 23:51	20°M15'15	1.31350 AU	minimum elong	11828 Oct 16 12:17	5° M .02'32	1°14'58
	11827 Nov 06 09:16	0° ∡		evening rise	11828 Oct 23 07:32	20°Mc01'59	
evening rise	11827 Nov 08 21:52	5° ₹ 28'04			11828 Oct 28 02:30	0° ⊼ ¹	
	11827 Nov 21 17:32	0°る		desc. node	11828 Nov 10 08:56	22° ∡ '41'57	
desc. node	11827 Nov 24 11:44 11827 Dec 08 15:59	4°る27'35 22°る26'10	26941124	avanina may al	11828 Nov 16 02:48	0°る 3°る26'25	25027121
evening max el retrograde	11827 Dec 08 15:59 11827 Dec 22 14:43	22° る 2610 29° る 34'01	26°41'24	evening max el retrograde	11828 Nov 19 10:11 11828 Dec 03 06:55	10° る 24'55	25°27'21
evening set	11827 Dec 22 14.43 11827 Dec 29 06:46	29 3 3401 27° る 43'07		evening set	11828 Dec 09 05:51	9° る 03'49	
min. Earth dist.	11828 Jan 02 06:05	25°る05'58	0.59356 AU	min. Earth dist.	11828 Dec 13 22:24	6° る 25'11	0.57326 AU
inferior conj	11828 Jan 05 10:10	23° ろ 37'11		inferior conj	11828 Dec 16 19:37	4°る27'52	
minimum elong	11828 Jan 05 18:02	22° る 21'45	3°52'38	minimum elong	11828 Dec 17 03:31	4°る14'26	
morning rise	11828 Jan 13 08:08	17° る 59'28	3 0230	morning rise	11828 Dec 25 03:33	0°る12'35	5 05 11
direct							
	11828 Jan 15 10:12	17°₹43'42					
asc. node	11828 Jan 15 10:12 11828 Jan 18 04:53	17°る43'42 18°る13'02		direct	11828 Dec 26 11:32 11828 Dec 27 09:21	30°Ŗ ⋌ 29° ⋌ 57'28	
asc. node morning max el		17°ප43'42 18°ප13'02 21°ප34'45	18°14'40	direct	11828 Dec 26 11:32	30° ₹ 🎜	
	11828 Jan 18 04:53	18° පි 13'02	18°14'40	direct asc. node	11828 Dec 26 11:32 11828 Dec 27 09:21	30°Ŗ ⋌ ¹ 29° ⋌ ¹57'28	
	11828 Jan 18 04:53 11828 Jan 23 04:57	18°ප13'02 21°ප34'45	18°14'40		11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55	30°R.ズ 29°ズ57'28 0°ठ	18°59'06
morning max el	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35	18°♂13'02 21°♂34'45 0°≈	18°14'40	asc. node	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03	30°Rダ 29°ダ57'28 0°る 3°る09'33	18°59'06
morning max el	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57	18°る13'02 21°る34'45 0°≈ 16°≈33'59	18°14'40	asc. node	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12	30°R.₹ 29°₹57'28 0°중 3°중09'33 4°중17'33	18°59'06
morning max el	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57	18°る13'02 21°る34'45 0°≈ 16°≈33'59	18°14'40 0°24'16	asc. node morning max el	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48	30°R√7 29°√757'28 0°♂ 3°♂09'33 4°♂17'33 0°≈	18°59'06
morning max el morning set	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45	18°る13'02 21°る34'45 0°≈ 16°≈33'59 0°光 4°升12'27 4°升20'32		asc. node morning max el	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52	30°R√7 29°√757'28 0°♂ 3°♂09'33 4°♂17'33 0°≈	0°53'48
morning max el morning set superior conj minimum elong desc. node	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48	18°る13'02 21°る34'45 0°≈ 16°≈33'59 0°光 4°光12'27 4°光20'32 9°光46'48	0°24'16 0°24'23	asc. node morning max el morning set superior conj minimum elong	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37	
morning max el morning set superior conj minimum elong desc. node max. Earth dist.	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16	18°♂13'02 21°♂34'45 0°≈ 16°≈33'59 0°光 4°光12'27 4°光20'32 9°光46'48 17°光31'33	0°24'16	asc. node morning max el morning set superior conj	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°¥25'48	0°53'48
morning max el morning set superior conj minimum elong desc. node	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27	18°♂13'02 21°♂34'45 0°≈ 16°≈33'59 0°光 4°升12'27 4°升20'32 9°升46'48 17°升31'33 25°升25'55	0°24'16 0°24'23	asc. node morning max el morning set superior conj minimum elong desc. node	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°₩25'48 0°₩	0°53'48 0°53'58
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morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03	18°る13'02 21°る34'45 0°≈ 16°≈33'59 0°光 4°光12'27 4°光20'32 9°光46'48 17°光31'33 25°光25'55 0°Y 0°8	0°24'16 0°24'23 1.41242 AU	asc. node morning max el morning set superior conj minimum elong desc. node	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°¥25'48 0°₩ 0°¥16'41 6°¥58'57	0°53'48 0°53'58
morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03 11828 Apr 03 17:11	18°る13'02 21°る34'45 0°≈ 16°≈33'59 0°光 4°光12'27 4°光20'32 9°光46'48 17°光31'33 25°光25'55 0°Y 0°8 12°847'20	0°24'16 0°24'23	asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30 11829 Feb 24 13:15	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°¥25'48 0°¥ 0°¥16'41 6°¥58'57 0°Y	0°53'48 0°53'58 1.39044 AU
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morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03 11828 Apr 14 02:29 11828 Apr 15 02:13 11828 Apr 19 02:38 11828 Apr 24 11:30 11828 Apr 24 09:26	18°る13'02 21°る34'45 0°≈ 16°≈33'59 0°光 4°升12'27 4°升20'32 9°升46'48 17°升31'33 25°升25'55 0°Y 0°8 12°847'20 18°85'02 18°85'02 16°849'20 10°823'43 10°830'49	0°24'16 0°24'23 1.41242 AU 23°08'48 2°34'17 2°33'21	asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30 11829 Feb 24 13:15 11829 Mar 17 07:04 11829 Mar 21 01:50 11829 Mar 28 18:41 11829 Apr 01 23:32 11829 Apr 03 06:46	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°₩25'48 0°₩ 0°₩16'41 6°₩58'57 0°Ψ 26°Ψ37'58 0°₩ 3°∀21'05 2°∀01'28 1°∀02'42	0°53'48 0°53'58 1.39044 AU
morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03 11828 Apr 14 02:29 11828 Apr 15 02:13 11828 Apr 19 02:38 11828 Apr 24 11:30 11828 Apr 24 09:26 11828 Apr 24 09:26 11828 Apr 24 09:26 11828 Apr 24 00:58	18°る13'02 21°る34'45 0°≈ 16°≈33'59 0°光 4°升12'27 4°升20'32 9°升46'48 17°升31'33 25°升25'55 0°Y 0°හ 12°847'20 18°855'02 18°850'26 16°849'20 10°823'43 10°830'49 11°800'08	0°24'16 0°24'23 1.41242 AU 23°08'48	asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30 11829 Feb 24 13:15 11829 Mar 17 07:04 11829 Mar 21 01:50 11829 Mar 28 18:41 11829 Apr 01 23:32 11829 Apr 03 06:46 11829 Apr 04 09:31	30°Rズ 29°ズ57'28 0°云 3°云09'33 4°云17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°¥25'48 0°¥ 0°¥16'41 6°¥58'57 0°Y 26°Y37'58 0°S 3°S21'05 2°S01'28 1°S02'42 30°RY	0°53'48 0°53'58 1.39044 AU 24°28'48
morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03 11828 Apr 03 17:11 11828 Apr 14 02:29 11828 Apr 15 02:13 11828 Apr 19 02:38 11828 Apr 24 11:30 11828 Apr 24 09:26 11828 Apr 24 00:58 11828 Apr 24 16:08	18° 云13'02 21° 云34'45 0° ※ 16° ※33'59 0° 光 4° 光12'27 4° 光20'32 9° 光46'48 17° 光31'33 25° 光25'55 0° Y 0° と 12° と47'20 18° と50'26 16° と49'20 10° と3'43 10° と30'49 11° と00'08 4° と16'35	0°24'16 0°24'23 1.41242 AU 23°08'48 2°34'17 2°33'21	asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30 11829 Feb 24 13:15 11829 Mar 17 07:04 11829 Mar 21 01:50 11829 Mar 28 18:41 11829 Apr 01 23:32 11829 Apr 03 06:46 11829 Apr 04 09:31 11829 Apr 07 20:41	30°R√ 29°√57'28 0°♂ 3°♂09'33 4°♂17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°₩25'48 0°₩ 0°₩16'41 6°₩58'57 0°Ψ 26°Ψ37'58 0°₩ 3°∀21'05 2°∀01'28 1°∀02'42	0°53'48 0°53'58 1.39044 AU 24°28'48
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morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03 11828 Apr 03 17:11 11828 Apr 14 02:29 11828 Apr 15 02:13 11828 Apr 19 02:38 11828 Apr 24 11:30 11828 Apr 24 09:26 11828 Apr 24 00:58 11828 Apr 24 16:08	18° 313'02 21° 334'45 0° ※ 16° ※33'59 0° 光 4° ※12'27 4° ※20'32 9° ※46'48 17° ※31'33 25° ※25'55 0° Ŷ 0° と 12° と47'20 18° と50'26 16° と49'20 10° と3'43 10° と30'49 11° と00'08 4° と16'35 2° と30'17	0°24'16 0°24'23 1.41242 AU 23°08'48 2°34'17 2°33'21 0.68727 AU	asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30 11829 Feb 24 13:15 11829 Mar 17 07:04 11829 Mar 21 01:50 11829 Mar 28 18:41 11829 Apr 01 23:32 11829 Apr 03 06:46 11829 Apr 04 09:31 11829 Apr 07 20:41	30°Rズ 29°ズ57'28 0°云 3°云09'33 4°云17'33 0°≈ 0°≈54'29 17°≈36'37 0°¥25'48 0°¥ 0°¥16'41 6°¥58'57 0°Y 26°Y37'58 0°S 3°S21'05 2°S01'28 1°S02'42 30°RY 25°Y49'11	0°53'48 0°53'58 1.39044 AU 24°28'48 0.68308 AU 2°00'34
morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11828 Jan 18 04:53 11828 Jan 23 04:57 11828 Jan 29 15:35 11828 Feb 07 21:57 11828 Feb 15 01:45 11828 Feb 17 09:00 11828 Feb 17 10:47 11828 Feb 20 11:48 11828 Feb 24 23:16 11828 Feb 29 17:27 11828 Mar 03 13:32 11828 Mar 24 00:03 11828 Apr 14 02:29 11828 Apr 14 02:29 11828 Apr 15 02:13 11828 Apr 19 02:38 11828 Apr 24 11:30 11828 Apr 24 09:26 11828 Apr 24 09:58 11828 Apr 29 16:08 11828 May 04 01:15 11828 May 12 13:36	18° る13'02 21° る34'45 0° ※ 16° ※33'59 0° 光 4° 光12'27 4° 光20'32 9° 光46'48 17° 光31'33 25° 光25'55 0° Ŷ 0° と 12° と47'20 18° と50'26 16° と49'20 10° と3'43 10° と30'49 11° と00'08 4° と16'35 2° と30'17 7° と24'15	0°24'16 0°24'23 1.41242 AU 23°08'48 2°34'17 2°33'21 0.68727 AU	asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	11828 Dec 26 11:32 11828 Dec 27 09:21 11828 Dec 28 06:55 11829 Jan 04 02:03 11829 Jan 05 08:12 11829 Jan 21 09:48 11829 Jan 21 20:52 11829 Jan 30 06:56 11829 Jan 30 09:49 11829 Feb 06 08:29 11829 Feb 06 02:42 11829 Feb 06 06:26 11829 Feb 10 02:30 11829 Feb 24 13:15 11829 Mar 17 07:04 11829 Mar 21 01:50 11829 Mar 21 01:50 11829 Mar 28 18:41 11829 Apr 01 23:32 11829 Apr 01 03:31 11829 Apr 04 09:31 11829 Apr 07 20:41 11829 Apr 08 19:27 11829 Apr 08 17:19	30°Rズ 29°ズ57'28 0°G 3°G09'33 4°G17'33 0°≈ 0°≈54'29 17°≈22'51 17°≈36'37 0°¥25'48 0°¥ 0°¥16'41 6°¥58'57 0°Y 26°Y37'58 0°B 3°B21'05 2°B01'28 1°B02'42 30°RY 25°Y49'11 24°Y32'55 24°Y40'08	0°53'48 0°53'58 1.39044 AU 24°28'48 0.68308 AU 2°00'34

morning max el	11829 Apr 25 12:39	21° Y ′20'19	10055!21	greatest brilliancy	11830 Apr 22 06:31	23° Y ′29'38	-0.8m
morning max er	11829 May 02 18:04	0° 8	19 33 21	greatest oriniancy	11830 Apr 26 12:33	0° 8	-0.6111
desc. node	11829 May 05 10:06	3° 8 41'04		morning set	11830 Apr 20 12:33	7° 8 56'45	
morning set	11829 May 22 10:04	29° 8 02'40		morning set	11830 May 01 13:49 11830 May 15 19:39	7 О 3043	
morning set	11829 May 23 00:57	0° Ⅱ		max. Earth dist.	11830 May 15 19:59		1.45443 AU
max. Earth dist.	11829 Jun 02 04:21		1.44435 AU	max. Earth dist.	11030 Way 13 20.30	0 д04 39	1.43443 AU
max. Earth dist.	11629 Juli 02 04.21	13 113131	1.44433 AU	superior conj	11830 May 18 02:09	3° Ⅱ 33'57	-2°11'10
superior conj	11829 Jun 07 10:24	24° Ⅱ 17'48	-2°10'19	minimum elong	11830 May 17 22:41	3° Ⅱ 20'17	
minimum elong	11829 Jun 07 14:08	24° I I32'57		evening rise	11830 Jun 02 01:29	27° II 30'47	2 11 54
minimum clong	11829 Jun 10 22:06	0°95	2 1037	evening rise	11830 Jun 03 14:12	0°95	
evening rise	11829 Jun 20 18:13	16° © 31'57		asc. node	11830 Jun 15 18:44	19° 9 317'40	
asc. node	11829 Jun 28 21:44	0°Ω17'32		evening max el	11830 Jun 22 01:19	27°9512'43	18°27'29
asc. node	11829 Jun 28 17:27	0°Ω		evening max er	11830 Jun 25 17:53	0°Ω	10 27 27
evening max el	11829 Jul 08 12:07	13° Ω 39'04	18°07'06	retrograde	11830 Jun 28 12:01	0° Ω 41'03	
retrograde	11829 Jul 14 21:13	16° Ω 59'24	18 07 00	retrograde	11830 Jul 01 04:57	30°RS	
evening set	11829 Jul 17 15:48	16° Ω 19'41		evening set	11830 Jul 01 04:37	29°5946'48	
inferior conj	11829 Jul 23 20:38	11° Ω 04'21	2°17'21	inferior conj	11830 Jul 07 09:04	24°515'03	2°52'50
minimum elong	11829 Jul 23 23:16	$10^{\circ}\Omega57'16$	2°16'01	minimum elong	11830 Jul 07 03:04	24°S09'07	2°51'44
min. Earth dist.	11829 Jul 26 14:59	8°Ω06'49	0.62858 AU	min. Earth dist.	11830 Jul 07 11:03	24 90907 21°939'25	0.64869 AU
		4°Ω53'00	0.02838 AU				0.04809 AU
morning rise	11829 Jul 30 04:48			morning rise	11830 Jul 13 06:13	17°954'50	
desc. node	11829 Aug 01 09:19	3° Ω 30′56		desc. node	11830 Jul 19 06:34	15°5515'08	
direct	11829 Aug 05 21:22	2° Ω 24'00	27952129	direct	11830 Jul 19 19:29	15°5514'07	2701 (120
morning max el	11829 Aug 19 22:14	10° Ω 26'15	21°52′38	morning max el	11830 Aug 02 08:49	23°©11'55	2/*16/39
	11829 Sep 04 06:11	0° m)			11830 Aug 08 09:43	0° N	
	11829 Sep 21 12:42	0∘ ʊ			11830 Aug 28 13:42	0° m)	
morning set	11829 Sep 23 06:43	3° Ω 29'54		morning set	11830 Sep 06 19:17	16° m 55'40	1 2220 7 1 1 1
asc. node	11829 Sep 24 22:40	6° Ω 54'05		max. Earth dist.	11830 Sep 11 07:12	25° m 55'40	1.33307 AU
max. Earth dist.	11829 Sep 28 11:42	14° £ 22'12	1.32139 AU	asc. node	11830 Sep 11 19:21	26° m 58'10	
		_			11830 Sep 13 06:20	0∘ ⊽	
superior conj	11829 Sep 30 22:52	19° ≏ 42'25				_	
minimum elong	11829 Sep 30 20:42	19° ≏ 30'38	0°55'39	superior conj	11830 Sep 15 02:34	3° ≏ 53'18	0°31'39
	11829 Oct 05 15:35	0° M		minimum elong	11830 Sep 15 01:03	3° ≏ 45'16	0°31'20
evening rise	11829 Oct 07 18:47	4° ™ 37'31		evening rise	11830 Sep 22 05:45	19° ≏ 09'55	
	11829 Oct 21 03:41	0° ∡			11830 Sep 27 12:31	0° M	
desc. node	11829 Oct 28 06:12	9° х 49′15		evening max el	11830 Oct 13 08:58	23°M47'47	22°10'28
evening max el	11829 Oct 31 21:20	13° ∡ ⁴43'04	23°51'22	desc. node	11830 Oct 15 03:33	25°M25'15	
retrograde	11829 Nov 14 10:45	20° ₹ 29'18			11830 Oct 24 05:46	0° ∡	
evening set	11829 Nov 19 04:39	19° ∡ ¹40'07		retrograde	11830 Oct 26 03:11	0° ∡ °08′19	
min. Earth dist.	11829 Nov 25 07:50		0.55678 AU		11830 Oct 28 01:17	30°₽M	
inferior conj	11829 Nov 27 08:27	15° ∡ °28′04		evening set	11830 Oct 29 09:58	29° M 44'25	
minimum elong	11829 Nov 27 11:24	15° ≮ 23'38	5°46'28	min. Earth dist.	11830 Nov 06 14:48	26°M06'36	0.54716 AU
morning rise	11829 Dec 05 20:04	11° ∡ ³32'42		inferior conj	11830 Nov 07 05:08	25°M46'27	
direct	11829 Dec 08 12:45	11° ⊀ 14′26		minimum elong	11830 Nov 06 23:34	25° M 54'17	5°37'54
morning max el	11829 Dec 18 23:10	16° ∡ 12'17	20°06'22	morning rise	11830 Nov 15 14:32	21° M 59'22	
asc. node	11829 Dec 21 23:09	19° ∡ ²27'39		direct	11830 Nov 19 00:29	21°M33'25	
	11829 Dec 29 00:45	0°ಕ		morning max el	11830 Dec 01 00:11	27° M 14'56	21°35'40
morning set	11830 Jan 06 02:26	15° る 30'51			11830 Dec 03 15:40	0° ∡	
	11830 Jan 13 04:37	0° ≈		asc. node	11830 Dec 08 20:10	6° ≯ 751′03	
					11830 Dec 21 09:02	0°ප	
superior conj	11830 Jan 13 18:50	1° ≈ 11'21	1°15'39	morning set	11830 Dec 21 12:02	0° る 15'39	
minimum elong	11830 Jan 13 21:33	1° ≈ 25'01	1°16'02			_	
max. Earth dist.	11830 Jan 19 13:11	12° ≈ 25'36	1.36845 AU	superior conj	11830 Dec 28 16:45	15° පි 26'41	1°30'03
evening rise	11830 Jan 23 07:26	19° ≈ 22'31		minimum elong	11830 Dec 28 18:38	15° る 36'32	1°30'41
desc. node	11830 Jan 24 05:13	21° ≈ 00′23		max. Earth dist.	11831 Jan 02 00:26	24° る 17'37	1.34875 AU
	11830 Jan 29 09:53	0° ∀			11831 Jan 04 22:01	0° ≈	
	11830 Feb 18 16:13	0° Y		evening rise	11831 Jan 06 04:59	2° ≈ 28'24	
evening max el	11830 Feb 27 20:22	10° Y ′28′08	25°42'20	desc. node	11831 Jan 11 02:03	11° ≈ 26′33	
retrograde	11830 Mar 12 06:27	17° Ƴ 36'43			11831 Jan 22 08:59	0° ∀	
evening set	11830 Mar 18 06:17	15° Y ′08'48		evening max el	11831 Feb 10 09:54	24° ¥ 12'41	26°42'10
asc. node	11830 Mar 19 20:54	13° Y °37′50			11831 Feb 17 22:30	0° Υ	
min. Earth dist.	11830 Mar 22 13:14	10° Y ′30′26	0.67458 AU	retrograde	11831 Feb 23 12:55	1° Ƴ 34'52	
inferior conj	11830 Mar 24 00:09	8° Y 39'31	1°17'02		11831 Feb 28 15:09	30° ₹ ₩	
minimum elong	11830 Mar 23 22:26	8° Y 44'58	1°16'23	evening set	11831 Mar 01 23:22	29°) €02'08	
morning rise	11830 Mar 29 15:09	2° Y 49'19		min. Earth dist.	11831 Mar 06 00:33	24°) 57′50	0.66208 AU
direct	11830 Apr 01 23:55	1° Y 44'29		asc. node	11831 Mar 06 18:15	24° 米 05′57	
morning max el	11830 Apr 08 19:24	5° Y 26'26	18°58'03	inferior conj	11831 Mar 07 23:28	22°) 39′09	0°23'32
desc. node	11830 Apr 22 06:48	23° Y ′30'43		minimum elong	11831 Mar 07 22:51	22°) 41′01	0°23'28

morning rise	11831 Mar 13 23:28	16° ¥ 59'53		inferior conj	11832 Feb 19 15:01	6° ∺ 26'21	-0°39'53
direct	11831 Mar 16 21:51	16° ∺ 12'12		minimum elong	11832 Feb 19 16:13	6° ∺ 23′05	0°39'01
morning max el	11831 Mar 23 08:25	19° ₩ 37'11	18°17'07	asc. node	11832 Feb 21 15:36	4° ₩ 19'25	
	11831 Mar 31 09:47	$0^{\circ}\mathbf{\Upsilon}$		morning rise	11832 Feb 26 02:21	1°) €00′23	
desc. node	11831 Apr 09 03:29	13° Y '40'02		direct	11832 Feb 28 15:57	0° ¥ 26′18	
morning set	11831 Apr 11 21:26	18° Y °03'47		morning max el	11832 Mar 06 01:15	3°) (45'34	17°53'13
morning set	11831 Apr 19 09:22	0°8		morning set	11832 Mar 23 08:05	29°) 36'45	17 33 13
	11031 Apr 19 09.22	v O		morning set		29 γ (3043	
					11832 Mar 23 13:39		
superior conj	11831 Apr 27 09:00	12° 8 33'28		desc. node	11832 Mar 26 00:08	4° Ƴ 03'41	
minimum elong	11831 Apr 26 23:59	11° 8 58'12					
max. Earth dist.	11831 Apr 28 16:08	14° 8 35'09	1.45731 AU	superior conj	11832 Apr 06 01:05	22° Y ′04'34	-1°17'08
	11831 May 08 13:14	$\Pi^{\circ}0$		minimum elong	11832 Apr 05 17:01	21° Y 32'20	1°16'22
evening rise	11831 May 13 08:50	7° Ⅱ 31'25		max. Earth dist.	11832 Apr 10 11:51	29° Y '08'04	1.45280 AU
greatest brilliancy	11831 May 24 04:31	24° II 20'20	-0.8m		11832 Apr 11 01:03	$B_{\circ O}$	
groutest erimane)	11831 May 27 23:14	0.0	0.011	evening rise	11832 Apr 21 23:31	16° 8 57'48	
asc. node	11831 Jun 02 15:48	7°9545'08		evening rise	11832 Apr 30 13:17	0°Ⅱ	
			10005117	4 41 30	-		0.6
evening max el	11831 Jun 05 11:12	10° © 54'01	19°05'17	greatest brilliancy	11832 May 06 20:44	9° Ⅱ 21'42	-0.6m
retrograde	11831 Jun 12 07:58	14°942'54		evening max el	11832 May 18 16:03	24° Ⅱ 39'01	19°58'55
evening set	11831 Jun 15 19:19	13° © 32'55		asc. node	11832 May 19 12:57	25° Ⅱ 29'43	
inferior conj	11831 Jun 21 06:41	7° ≤ 46′18	3°11'05	retrograde	11832 May 26 06:20	28° Ⅱ 59'37	
minimum elong	11831 Jun 21 07:37	7° 5 43'18	3°10'12	evening set	11832 May 30 02:58	27° Ⅲ 33'18	
min. Earth dist.	11831 Jun 22 20:18	5° © 45'42	0.66521 AU	inferior conj	11832 Jun 04 10:32	21° Ⅲ 33'10	3°15'13
morning rise	11831 Jun 26 19:19	1°523'49		minimum elong	11832 Jun 04 10:22	21° I I33'44	3°14'26
morning rise	11831 Jun 28 16:11	30°RⅡ		min. Earth dist.	11832 Jun 05 09:39	20° I 15'06	0.67741 AU
11							0.07741 AU
direct	11831 Jul 03 00:47	28° Ⅱ 41'59		morning rise	11832 Jun 09 17:25	15° Ⅱ 12'30	
desc. node	11831 Jul 06 03:46	29° Ⅱ 16'37		direct	11832 Jun 15 11:56	12° Ⅱ 39'04	
	11831 Jul 07 19:37	0		desc. node	11832 Jun 22 00:52	15° Ⅱ 10'01	
morning max el	11831 Jul 15 19:39	6°520'10	26°13'14	morning max el	11832 Jun 27 05:36	19° ∏ 41′28	24°51'54
	11831 Aug 03 02:14	$0^{\circ}\Omega$			11832 Jul 06 00:20	0 \circ \odot	
morning set	11831 Aug 20 19:17	29° Ω 44'13			11832 Jul 26 05:25	$0^{\circ}\Omega$	
S	11831 Aug 20 22:41	0° m)		morning set	11832 Aug 02 02:29	11° Ω 44'56	
max. Earth dist.	11831 Aug 24 16:08	7° m) 05'57	1.34976 AU	max. Earth dist.	11832 Aug 05 16:21	18° Ω 11'47	1.37060 AU
max. Earth dist.	11031 Aug 24 10.00	7 110 03 37	1.54770710	max. Earth dist.	11832 Aug 11 22:01	0° m)	1.57000710
	11021 4 20 22 02	170m-20150	0002150		11032 Aug 11 22.01	U III	
superior conj	11831 Aug 29 23:03	17° m 39'58	0°02'50				
minimum elong	11831 Aug 29 22:55	17° m 39'14	0°02'34	superior conj	11832 Aug 12 09:17	0° m 55'01	
behind sun begin	11831 Aug 29 16:59	17° m) 08'58		minimum elong	11832 Aug 12 11:14	1° m)04'31	0°29'42
behind sun end	11831 Aug 30 04:50	18° m 09'34		asc. node	11832 Aug 15 12:46	7° Mp 08'23	
asc. node	11831 Aug 29 16:02	17° m 04'04		evening rise	11832 Aug 20 18:22	17° m 40'24	
	11831 Sep 04 21:30	0∘ ⊽			11832 Aug 27 02:38	0∘ ट	
evening rise	11831 Sep 06 14:22	3° ഫ 32'51		evening max el	11832 Sep 06 17:46	15° ≏ 31'24	19°29'48
	11831 Sep 21 12:45	0° M ,		retrograde	11832 Sep 16 09:04	20° £ 19'30	-, -, -,
evening max el	11831 Sep 25 06:25	4° ጤ 17'10	20°40'28	desc. node	11832 Sep 17 22:20	20° ⊆ 12'33	
•	•		20 40 26	desc. Hode	11034 360 17 44.40	20 == 12 33	
desc. node	11831 Oct 02 00:56	9°M.00'41			-	200 0 00120	
retrograde	11831 Oct 06 14:19			evening set	11832 Sep 18 05:34	20° 2 09'38	00.4515.1
evening set		9° ™ 54'32		inferior conj	11832 Sep 18 05:34 11832 Sep 26 23:01	16° ≙ 03'46	
: c:	11831 Oct 08 19:28	9° ™ 42'35		-	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40	16° £ 03'46 16° £ 15'32	
inferior conj	11831 Oct 08 19:28 11831 Oct 17 21:11		-4°32'50	inferior conj	11832 Sep 18 05:34 11832 Sep 26 23:01	16° ≙ 03'46	
minimum elong		9° ™ 42'35		inferior conj minimum elong	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40	16° £ 03'46 16° £ 15'32	2°44'59
•	11831 Oct 17 21:11	9°M42'35 5°M47'24		inferior conj minimum elong min. Earth dist.	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50	16° ♀ 03'46 16° ♀ 15'32 14° ♀ 31'29	2°44'59
minimum elong min. Earth dist.	11831 Oct 17 21:11 11831 Oct 17 11:10	9° M 42'35 5° M 47'24 6° M 01'47	4°29'43	inferior conj minimum elong min. Earth dist. morning rise direct	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51	16° £ 03'46 16° £ 15'32 14° £ 31'29 11° £ 36'44	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31	4°29'43	inferior conj minimum elong min. Earth dist. morning rise	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41	16° △ 03'46 16° △ 15'32 14° △ 31'29 11° △ 36'44 10° △ 38'35 17° △ 38'10	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise direct	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31 1°M10'30	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° №	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise direct morning max el	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31 1°M10'30 7°M34'32	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59	16° \(\Omega\) 03'46 16° \(\Omega\) 15'32 14° \(\Omega\) 31'29 11° \(\Omega\) 36'44 10° \(\Omega\) 38'35 17° \(\Omega\) 38'10 0° \(\Omega\) 13° \(\Omega\) 55'34	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise direct	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19	16° \(\Omega\) 03'46 16° \(\Omega\) 15'32 14° \(\Omega\) 31'29 11° \(\Omega\) 36'44 10° \(\Omega\) 38'35 17° \(\Omega\) 38'10 0° \(\Omega\) 13° \(\Omega\) 55'34 29° \(\Omega\) 47'21	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31 1°M10'30 7°M34'32 25°M04'27 0° ✓	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59	16° \(\Omega\) 03'46 16° \(\Omega\) 15'32 14° \(\Omega\) 31'29 11° \(\Omega\) 36'44 10° \(\Omega\) 38'35 17° \(\Omega\) 38'10 0° \(\Omega\) 13° \(\Omega\) 55'34	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise direct morning max el	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° №	2°44'59 0.55533 AU 25°07'21
minimum elong min. Earth dist. morning rise direct morning max el asc. node	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31 1°M10'30 7°M34'32 25°M04'27 0° ✓	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° №	2°44'59 0.55533 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31 1°M10'30 7°M34'32 25°M04'27 0° ✓	4°29'43 0.54658 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° №	2°44'59 0.55533 AU 25°07'21
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° \$\tilde{x}\$ 15° \$\tilde{x}\$02'51	4°29'43 0.54658 AU 23°20'39	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵	2°44'59 0.55533 AU 25°07'21 1°38'43
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° \$\tilde{x}\$ 15° \$\tilde{x}\$02'51	4°29'43 0.54658 AU 23°20'39	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Nov 13 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:34	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° № 14° № 41'52 14° № 39'51	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° ✓ 15° ✓ 02'51 29° ✓ 59'24 0° ✓ 03'32 0° ✓	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Nov 10 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ♥ 09'57	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 15 19:30	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° ✓ 15° ✓ 0° 0°	4°29'43 0.54658 AU 23°20'39	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ♂ 09'57 0° ♂	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	11831 Oct 17 21:11 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 21:31 11831 Dec 12 21:38 11831 Dec 15 19:30 11831 Dec 20 15:31	9°M42'35 5°M47'24 6°M01'47 5°M11'07 1°M49'31 1°M10'30 7°M34'32 25°M04'27 0°\$\textit{x}\$ 15°\$\textit{x}\$02'51 29°\$\textit{x}\$59'24 0°\textit{50}3'32 0°\textit{5}\$ 6°\textit{512'38} 16°\textit{507'06}	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ₭ 09'57 0° ₭ 21° ₭ 31'56	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 21:31 11831 Dec 12 21:38 11831 Dec 15 19:30 11831 Dec 20 15:31 11831 Dec 28 00:28	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° ✓ 15° ✓ 15° ✓ 0° ✓ 0° ✓ 6° ✓ 12'38 16° ✓ 0° © 0° ∞	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ♂ 09'57 0° ♂ 21° ♂ 31'56 0° ≈	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 12 12:38 11831 Dec 12 15:31 11831 Dec 20 15:31 11831 Dec 28 00:28 11831 Dec 28 22:58	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° ✓ 15° ✓ 15° ✓ 02'51 29° ✓ 59'24 0° © 0° 6° © 12'38 16° © 0° 1° ≈ 39'18	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14 11833 Jan 05 10:16	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ※ 14° ※ 41'52 14° ※ 39'51 18° ※ 19'04 0° ♥ 09'57 0° ♥ 21° ♥ 31'56 0° ≈ 20° ≈ 44'13	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 12 21:38 11831 Dec 12 15:31 11831 Dec 20 15:31 11831 Dec 28 00:28 11831 Dec 28 22:58 11832 Jan 16 22:32	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° ✓ 15° ✓ 15° ✓ 02'51 29° ✓ 59'24 0° G03'32 0° 6° G12'38 16° G07'06 0° 1° ≈39'18 0° ★	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20 1.33285 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Nov 10 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14 11833 Jan 05 10:16 11833 Jan 19 05:56	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ♂ 09'57 0° ♂ 21° ♂ 31'56 0° ≈ 20° ≈ 44'13 28° ≈ 04'27	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 12 21:38 11831 Dec 12 15:31 11831 Dec 28 00:28 11831 Dec 28 20:58 11832 Jan 16 22:32 11832 Jan 23 23:10	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° 🖈 15° 🕏 02'51 29° 🕏 59'24 0°\square 30'32 0°\square 6°\square 12'38 16°\square 307'06 0°\square 1°\square 39'18 0°\tag{7}	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20 1.33285 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Nov 10 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14 11833 Jan 05 10:16 11833 Jan 19 05:56 11833 Jan 26 05:10	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ♂ 09'57 0° ♂ 21° ♂ 31'56 0° ≈ 20° ≈ 44'13 28° ≈ 04'27 25° ≈ 41'52	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU 27°31'46
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 12 21:38 11831 Dec 12 15:31 11831 Dec 20 15:31 11831 Dec 28 00:28 11831 Dec 28 22:58 11832 Jan 16 22:32	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° ✓ 15° ✓ 15° ✓ 02'51 29° ✓ 59'24 0° G03'32 0° 6° G12'38 16° G07'06 0° 1° ≈39'18 0° ★	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20 1.33285 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Nov 10 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14 11833 Jan 05 10:16 11833 Jan 19 05:56	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ৵ 14° ৵ 41'52 14° ৵ 39'51 18° ৵ 19'04 0° ♂ 09'57 0° ♂ 21° ♂ 31'56 0° ≈ 20° ≈ 44'13 28° ≈ 04'27 25° ≈ 41'52	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 12 21:38 11831 Dec 12 15:31 11831 Dec 28 00:28 11831 Dec 28 20:58 11832 Jan 16 22:32 11832 Jan 23 23:10	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° 🖈 15° 🕏 02'51 29° 🕏 59'24 0°\square 30'32 0°\square 6°\square 12'38 16°\square 307'06 0°\square 1°\square 39'18 0°\tag{7}	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20 1.33285 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Nov 10 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14 11833 Jan 05 10:16 11833 Jan 19 05:56 11833 Jan 26 05:10	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° № 14° № 41'52 14° № 39'51 18° № 19'04 0° ₭ 09'57 0° ₭ 21° ₭ 31'56 0° № 20° ※ 44'13 28° ※ 04'27 25° ※ 41'52	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU 27°31'46
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	11831 Oct 17 21:11 11831 Oct 17 11:10 11831 Oct 18 22:26 11831 Oct 26 02:40 11831 Oct 30 08:55 11831 Nov 12 14:08 11831 Nov 25 17:07 11831 Nov 28 11:35 11831 Dec 05 23:36 11831 Dec 12 21:31 11831 Dec 12 22:17 11831 Dec 12 21:38 11831 Dec 12 21:38 11831 Dec 20 15:31 11831 Dec 28 00:28 11831 Dec 28 22:58 11832 Jan 16 22:32 11832 Jan 23 23:10 11832 Feb 06 13:07	9°M.42'35 5°M.47'24 6°M.01'47 5°M.11'07 1°M.49'31 1°M.10'30 7°M.34'32 25°M.04'27 0° \$\mathrightarrow{\sigma}\$ 15° \$\mathrightarrow{\sigma}\$ 29° \$\mathrightarrow{\sigma}\$ 6° \$\mathrightarrow{\sigma}\$ 10° \$\mathright	4°29'43 0.54658 AU 23°20'39 1°37'34 1°38'20 1.33285 AU	inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	11832 Sep 18 05:34 11832 Sep 26 23:01 11832 Sep 26 15:40 11832 Sep 29 08:50 11832 Oct 04 23:34 11832 Oct 10 01:51 11832 Oct 24 00:41 11832 Nov 03 04:53 11832 Nov 11 13:59 11832 Nov 19 11:19 11832 Nov 19 13:41 11832 Nov 26 06:36 11832 Nov 26 06:14 11832 Nov 27 22:11 11832 Dec 03 11:45 11832 Dec 03 09:49 11832 Dec 14 19:58 11832 Dec 20 01:14 11833 Jan 05 10:16 11833 Jan 19 05:56 11833 Jan 26 05:10 11833 Jan 29 23:02	16° № 03'46 16° № 15'32 14° № 31'29 11° № 36'44 10° № 38'35 17° № 38'10 0° № 13° № 55'34 29° № 47'21 0° ※ 14° ※ 41'52 14° ※ 39'51 18° ※ 19'04 0° ♂ 09'57 0° ♂ 21° ♂ 31'56 0° ≈ 20° ≈ 44'13 28° ≈ 04'27 25° ≈ 41'52 22° ≈ 38'04	2°44'59 0.55533 AU 25°07'21 1°38'43 1°39'27 1.32152 AU 27°31'46

asc. node	11833 Feb 07 12:55	15° ≈ 17'31		inferior conj	11834 Jan 15 10:22	2° ≈ 49'15	-3°10'//3
morning rise	11833 Feb 07 12:33 11833 Feb 08 20:19	13 ≈1731 14°≈43'02		minimum elong	11834 Jan 15 16:57	2°≈35'16	
direct	11833 Feb 08 20:19	14°≈18'50		minimum ciong	11834 Jan 19 00:16	2 ~33 10 30°Rる	3 07 38
morning max el	11833 Feb 17 18:50	17°≈42'35	17°46'49	morning rise	11834 Jan 23 00:53	27°る59'25	
morning max ci	11833 Feb 26 15:37	0°) €	17 4042	direct	11834 Jan 25 03:37	27°る41'33	
morning set	11833 Mar 05 19:05	12° ∺ 19'18		asc. node	11834 Jan 25 10:10	27°る41'52	
desc. node	11833 Mar 12 20:45	24°) (36'25		asc. node	11834 Jan 30 22:03	27 ⊙ 41 32	
dese. Hode	11833 Mar 16 01:02	0° Υ		morning max el	11834 Feb 01 09:52	1° ≈ 19'29	17°58'50
	11033 War 10 01.02	0 1		morning set	11834 Feb 17 00:03	25°≈51'47	17 30 30
superior conj	11833 Mar 17 14:54	2° Y ′38'30	-0°35'50	morning sec	11834 Feb 19 06:00	0° ∀	
minimum elong	11833 Mar 17 11:19	2°Υ23'32			11031160 17 00.00	٠ ٨	
max. Earth dist.	11833 Mar 24 05:38	13° Y '27'22	1.44134 AU	superior conj	11834 Feb 27 05:20	14° ¥ 21'41	0°03'56
evening rise	11833 Apr 01 11:57	26° Y 27'15	1.11151116	minimum elong	11834 Feb 27 05:40	14°) 23'13	0°04'09
	11833 Apr 03 19:22	0°8		behind sun begin	11834 Feb 26 21:54	13°) 49′02	
	11833 Apr 24 12:40	0°II		behind sun end	11834 Feb 27 13:27	14° ¥ 57'19	
evening max el	11833 May 01 15:09	8° Ⅱ 24'49	21°05'55	desc. node	11834 Feb 27 17:24	15°) 14'34	
asc. node	11833 May 06 10:11	12° Ⅱ 17'29		max. Earth dist.	11834 Mar 06 18:59	27°) 15′54	1.42417 AU
retrograde	11833 May 10 05:01	13° Ⅲ 25'30			11834 Mar 08 10:52	0° Υ	
evening set	11833 May 14 11:44	11° Ⅱ 43'01		evening rise	11834 Mar 12 12:32	6° Ƴ 33'39	
inferior conj	11833 May 19 18:06	5° Ⅱ 30'54	3°07'30	8 11	11834 Mar 28 00:43	0°8	
minimum elong	11833 May 19 16:59	5° Ⅱ 34'47	3°06'42	evening max el	11834 Apr 14 09:07	22° 8 11'18	22°22'26
min. Earth dist.	11833 May 20 03:30	4° Ⅲ 58'15	0.68493 AU	asc. node	11834 Apr 23 07:26	27° 8 52'42	
	11833 May 24 02:55	30°R ∀		retrograde	11834 Apr 24 02:20	27° 8 55'39	
morning rise	11833 May 24 22:00	29° 8 14'24		evening set	11834 Apr 28 19:56	25° 8 57'51	
direct	11833 May 30 03:49	26° 8 56'30		inferior conj	11834 May 04 03:19	19° 8 36'05	2°49'16
	11833 Jun 06 03:10	0°II		minimum elong	11834 May 04 01:30	19° 8 42'24	2°48'23
desc. node	11833 Jun 08 21:52	2° II 27'12		min. Earth dist.	11834 May 03 23:50	19° 8 48'13	0.68773 AU
morning max el	11833 Jun 09 15:40	3° Ⅱ 11'13	23°22'37	morning rise	11834 May 09 06:57	13° 8 25'10	
. 8	11833 Jun 30 02:53	0ಂತಾ		direct	11834 May 13 23:27	11° 8 26'57	
morning set	11833 Jul 14 12:00	22° © 45'48		morning max el	11834 May 23 04:32	16° 8 49'46	21°54'34
max. Earth dist.	11833 Jul 18 13:51	29° © 43'45	1.39362 AU	desc. node	11834 May 26 18:47	20° 8 45'48	
	11833 Jul 18 17:35	$0^{\circ}\Omega$			11834 Jun 02 23:35	0°II	
					11834 Jun 23 04:14	0ಂತಾ	
superior conj	11833 Jul 26 05:27	13° Ω 29'09	-1°03'42	morning set	11834 Jun 24 19:56	2°938'05	
minimum elong	11833 Jul 26 09:55		1°03'36	max. Earth dist.	11834 Jun 30 14:29	12° © 03'10	1.41617 AU
asc. node	11833 Aug 02 09:32	27° Ω 07'13					
	11833 Aug 03 21:15	0° m		superior conj	11834 Jul 08 07:05	25° © 12'07	-1°36'04
evening rise	11833 Aug 04 14:53	1°m)25'11		minimum elong	11834 Jul 08 13:36	25°940'49	1°36'03
evening max el	11833 Aug 20 17:31		18°40'40		11834 Jul 11 00:01	0°N	
<i>3</i>	11833 Aug 23 18:00	0∘ <u>⊽</u>		evening rise	11834 Jul 19 00:14	14° Ω 37'34	
retrograde	11833 Aug 28 21:25	1° م 37'34		asc. node	11834 Jul 20 06:20	16° Ω 56'19	
evening set	11833 Aug 30 20:20	1° ≏ 24'17			11834 Jul 27 14:52	0° m)	
	11833 Sep 03 09:11	30°R, M)		evening max el	11834 Aug 04 01:52	10° m) 10'16	18°12'20
desc. node	11833 Sep 04 19:43	29° m 08'10		retrograde	11834 Aug 11 04:36	13° m) 46'48	
inferior conj	11833 Sep 07 20:27	26° m 59'32	-0°56'57	evening set	11834 Aug 13 10:24	13° m) 25'53	
minimum elong	11833 Sep 07 18:07	27° m) 03'52		inferior conj	11834 Aug 20 15:35	8° m 40'40	0°37'24
min. Earth dist.	11833 Sep 11 00:25		0.57171 AU	minimum elong	11834 Aug 20 16:48	8° mp 38'00	0°36'36
morning rise	11833 Sep 15 12:30	21° m 54'45		desc. node	11834 Aug 22 17:06	6° m 52'04	
direct	11833 Sep 21 08:25	20° m/31'04		min. Earth dist.	11834 Aug 23 23:25	5° m) 47'41	0.59295 AU
morning max el	11833 Oct 05 15:28	-	26°37'47	morning rise	11834 Aug 27 19:50	3° m) 01'56	
	11833 Oct 07 15:10	0∘ ⊽		direct	11834 Sep 03 04:56	1° m) 09'22	
	11833 Oct 27 18:19	0°M		morning max el	11834 Sep 17 13:30	8° m) 58'09	27°36'58
asc. node	11833 Oct 29 10:48	3° ™ 14'36			11834 Oct 03 15:46	0∘ ⊽	_, _,
morning set	11833 Nov 03 21:33	14°M24'41		asc. node	11834 Oct 16 07:33	22° ♀ 53'00	
				morning set	11834 Oct 19 04:28	28° Ω 48'44	
superior conj	11833 Nov 10 17:54	29°M28'04	1°33'55	. 8	11834 Oct 19 17:56	0° M	
minimum elong	11833 Nov 10 16:34	29°M20'39	1°34'28	max. Earth dist.	11834 Oct 25 14:44	12°M48'52	1.31339 AU
	11833 Nov 10 23:38	0° ⊼	-				
max. Earth dist.	11833 Nov 10 25:50	0° ₹ 34'29	1.31498 AU	superior conj	11834 Oct 26 05:30	14° M .11'07	1°23'26
evening rise	11833 Nov 17 14:58	14°×729'59		minimum elong	11834 Oct 26 03:30	13°M59'58	1°23'42
	11833 Nov 25 10:04	0°る		evening rise	11834 Nov 01 22:49	28°M59'52	× -=
desc. node	11833 Dec 01 17:01	00 10° ろ 56'19			11834 Nov 02 10:03	0° ⊼	
	11833 Dec 01 17:01	0° ≈		desc. node	11834 Nov 18 14:09	29° х 40'19	
evening max el							
		3°≈04'35	27°09'37		11834 Nov 18 19·24	0°₹	
•	11833 Dec 18 16:27		27°09'37	evening max el	11834 Nov 18 19:24 11834 Nov 30 15:09	0°궁 14°중33'36	26°13'22
retrograde	11833 Dec 18 16:27 11834 Jan 01 14:28	10° ≈ 17′23	27°09'37	evening max el	11834 Nov 30 15:09	14° る 33'36	26°13'22
•	11833 Dec 18 16:27		27°09'37 0.60597 AU	evening max el retrograde evening set			26°13'22

min. Earth dist.	11834 Dec 25 04:23	17° 云 23'42	0.58465 AU		11835 Dec 03 17:01	30°R <i>⊼</i> ¹	
inferior conj	11834 Dec 28 07:13	15° る 06'02		min. Earth dist.	11835 Dec 06 17:37	28° ×7 14'53	0.56554 AU
minimum elong	11834 Dec 28 15:34	14°る50'38		inferior conj	11835 Dec 09 07:45	26° ₹ ³35'12	
morning rise	11835 Jan 05 10:06	10° ට 38'15		minimum elong	11835 Dec 09 14:15	26° ∡ ¹24'45	5°26'25
direct	11835 Jan 07 12:52	10° ට 23'17		morning rise	11835 Dec 17 18:07	22° ∡ ¹28'55	
asc. node	11835 Jan 12 07:22	11° පි 44'13		direct	11835 Dec 20 03:22	22° ∡ 13′04	
morning max el	11835 Jan 15 18:37	14° る 25'25	18°30'53	morning max el	11835 Dec 29 17:02	26° х ⁴48'53	19°24'53
-	11835 Jan 26 10:40	0° ≈		asc. node	11835 Dec 30 04:30	27° ∡ 17′08	
morning set	11835 Jan 31 17:37	9° ≈ 58'03			11836 Jan 01 14:29	ರ∘ರ	
				morning set	11836 Jan 15 19:43	24° පි 26'11	
superior conj	11835 Feb 09 17:06	27° ≈ 04'04	0°37'43		11836 Jan 18 14:13	0° ≈	
minimum elong	11835 Feb 09 19:32	27° ≈ 15′23	0°37'49				
	11835 Feb 11 07:20	0°)		superior conj	11836 Jan 23 21:28	10° ≈ 32′03	1°03'59
desc. node	11835 Feb 14 14:03	5°) 54'17		minimum elong	11836 Jan 24 00:25	10° ≈ 46′22	1°04'15
max. Earth dist.	11835 Feb 17 03:20	10°) 22'32	1.40321 AU	max. Earth dist.	11836 Jan 30 09:25	22° ≈ 49′16	1.38092 AU
evening rise	11835 Feb 21 09:11	17° ∺ 34'21		desc. node	11836 Feb 01 10:44	26° ≈ 31'58	
	11835 Mar 01 02:54	0° Y		evening rise	11836 Feb 03 03:03	29° ≈ 30′12	
	11835 Mar 22 13:35	0 \circ 8			11836 Feb 03 09:52	0° ∀	
evening max el	11835 Mar 27 23:48	6° 8 00'15	23°43'09		11836 Feb 22 10:57	0° Y	
retrograde	11835 Apr 07 20:54	12° 8 24'50		evening max el	11836 Mar 09 13:22	19° Ƴ 51'45	25°01'24
asc. node	11835 Apr 10 04:44	11° 8 59'41		retrograde	11836 Mar 21 11:23	26° Ƴ 47'17	
evening set	11835 Apr 13 02:01	10° 8 13'26		evening set	11836 Mar 27 04:24	24° Y °24'40	
min. Earth dist.	11835 Apr 17 20:30	4° 8 39'17	0.68598 AU	asc. node	11836 Mar 27 02:04	24° Y ′29'33	
inferior conj	11835 Apr 18 12:18	3° 8 45'16	2°21'11	min. Earth dist.	11836 Mar 31 15:16	19° Y ′25'56	0.67994 AU
minimum elong	11835 Apr 18 10:09	3° 8 52'37	2°20'14	inferior conj	11836 Apr 01 19:08	17° Y ′54'23	1°43'21
	11835 Apr 21 09:51	30° Ŗ ♈		minimum elong	11836 Apr 01 17:06	18° Y ′01′05	1°42'30
morning rise	11835 Apr 23 18:16	27° Y ′41′09		morning rise	11836 Apr 07 06:05	11° Y ′58′27	
direct	11835 Apr 27 21:48	26° Y ′04'12		direct	11836 Apr 10 21:26	10° Y ′42′18	
	11835 May 05 07:00	0°8		morning max el	11836 Apr 18 01:34	14° Y ′39'55	19°28'57
morning max el	11835 May 05 23:16	0° 8 39'15	20°35'06	desc. node	11836 Apr 29 12:22	29° Y ′24'39	
desc. node	11835 May 13 15:37	9° 8 49'07			11836 Apr 29 22:03	0°8	^ 7
	11835 May 27 15:58	0°II		greatest brilliancy	11836 Apr 30 18:17	1° 8 14'14	-0.7m
morning set	11835 Jun 04 04:31	11° Ⅱ 29'46		morning set	11836 May 13 04:33	20° 8 03'42	
Danth Jint					11026 Man 10 14.41		
max. Earth dist.	11835 Jun 12 21:30	25° Ⅱ 14'54	1.43551 AU	may Forth dist	11836 May 19 14:41	0°П 0°П 10'20	1 44051 ATT
max. Earth dist.	11835 Jun 12 21:30 11835 Jun 15 19:48	25°Ⅲ14'54 0°©	1.43551 AU	max. Earth dist.	11836 May 19 14:41 11836 May 25 11:11		1.44951 AU
					11836 May 25 11:11		
superior conj	11835 Jun 15 19:48	0ంత		superior conj		9° Ⅱ 10'29	
	11835 Jun 15 19:48 11835 Jun 19 10:07	0°556'06	-2°01'29		11836 May 25 11:11 11836 May 29 13:18	9° Ⅱ 10′29 15° Ⅱ 39′54	-2°13'11
superior conj minimum elong	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11	0°556'06 6°521'22	-2°01'29	superior conj	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17	9°П10'29 15°П39'54 15°П43'49	-2°13'11
superior conj minimum elong	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54	0°95 5°956'06 6°921'22 27°906'36	-2°01'29	superior conj minimum elong	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26	9°∏10'29 15°∏39'54 15°∏43'49 0°∽	-2°13'11
superior conj minimum elong evening rise	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23	0°S 5°S56'06 6°S21'22 27°S06'36 0°N	-2°01'29	superior conj minimum elong evening rise	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03	-2°13'11
superior conj minimum elong evening rise asc. node	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11	0°5 5°556'06 6°521'22 27°506'36 0°A 6°A31'26	-2°01'29 2°01'53	superior conj minimum elong evening rise	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07	9° II 10′29 15° II 39′54 15° II 43′49 0° © 8° © 40′03 25° © 46′13	-2°13'11
superior conj minimum elong evening rise asc. node evening max el	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53	0°\$5 5°\$56'06 6°\$21'22 27°\$06'36 0°\$1 6°\$0.31'26 23°\$0.17'56	-2°01'29 2°01'53	superior conj minimum elong evening rise asc. node	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15	9°∏10'29 15°∏39'54 15°∏43'49 0°© 8°©40'03 25°©46'13 0°Ω	-2°13'11 2°13'56
superior conj minimum elong evening rise asc. node evening max el retrograde	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26	0°\$- 5°\$56'06 6°\$21'22 27°\$06'36 0°\$- 6°\$\Omega\$31'26 23°\$\Omega\$17'56 26°\$\Omega\$39'51	-2°01'29 2°01'53	superior conj minimum elong evening rise asc. node evening max el	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15 11836 Jul 01 04:57	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03 25° © 46'13 0° Ω 6° Ω 44'36	-2°13'11 2°13'56
superior conj minimum elong evening rise asc. node evening max el retrograde evening set	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19	0°5 5°556'06 6°521'22 27°506'36 0°0 6°031'26 23°017'56 26°039'51 26°007'47	-2°01'29 2°01'53 18°03'40	superior conj minimum elong evening rise asc. node evening max el retrograde	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15 11836 Jul 01 04:57 11836 Jul 07 13:30	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03 25° © 46'13 0° Ω 6° Ω 44'36 10° Ω 06'20	-2°13'11 2°13'56
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59	0°\$5 5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$ 6°\$\Omega\$1'26 23°\$\Omega\$17'56 26°\$\Omega\$39'51 26°\$\Omega\$03'10	-2°01'29 2°01'53 18°03'40 1°47'35	superior conj minimum elong evening rise asc. node evening max el retrograde evening set	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03 25° © 46'13 0° \(\Omega\) 6° \(\Omega\) 44'36 10° \(\Omega\) 006'20 9° \(\Omega\) 20'33	-2°13'11 2°13'56 18°13'39
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 08:34 11835 Aug 06 07:12 11835 Aug 09 21:19	5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$1'26 23°\$\Omega\$17'56 26°\$\Omega\$39'51 26°\$\Omega\$07'47 21°\$\Omega\$03'10 20°\$\Omega\$56'41 18°\$\Omega\$00'46 15°\$\Omega\$00'49	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 16 11:31	9° II 10'29 15° II 39'54 15° II 43'49 0° 96 8° 9540'03 25° 9546'13 0° 10° 100'00'00'00'00'00'00'00'00'00'00'00'00'	-2°13'11 2°13'56 18°13'39 2°34'43
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 08:34 11835 Aug 06 07:12 11835 Aug 09 21:19 11835 Aug 09 14:27	5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$ 6°\$\Omega\$31'26 23°\$\Omega\$17'56 26°\$\Omega\$39'51 26°\$\Omega\$07'47 21°\$\Omega\$03'10 20°\$\Omega\$56'41 18°\$\Omega\$00'46 15°\$\Omega\$00'49 15°\$\Omega\$12'51	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 16 11:31 11836 Jul 16 13:58 11836 Jul 19 00:15 11836 Jul 20 02:05	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03 25° © 46'13 0° \(\Omega\) 6° \(\Omega\) 44'36 10° \(\Omega\) 06'20 9° \(\Omega\) 20'33 3° \(\Omega\) 58'13 3° \(\Omega\) 51'20 1° \(\Omega\) 08'03 30° RS	-2°13'11 2°13'56 18°13'39 2°34'43 2°33'28
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 08:34 11835 Aug 06 07:12 11835 Aug 09 21:19 11835 Aug 09 14:27 11835 Aug 16 13:16	5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$ 6°\$\Omega\$1'26 23°\$\Omega\$17'56 26°\$\Omega\$9'51 26°\$\Omega\$03'10 20°\$\Omega\$56'41 18°\$\Omega\$00'46 15°\$\Omega\$00'49 15°\$\Omega\$12'51 12°\$\Omega\$233	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15 0.61584 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 10 11:37 11836 Jul 16 13:58 11836 Jul 19 00:15 11836 Jul 20 02:05 11836 Jul 22 14:46	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° S40'03 25° S46'13 0° \(\Omega\) 6° \(\Omega\) 44'36 10° \(\Omega\) 006'20 9° \(\Omega\) 20'33 3° \(\Omega\) 58'13 3° \(\Omega\) 51'20 1° \(\Omega\) 08'03 30° RS 27° S42'24	-2°13'11 2°13'56 18°13'39 2°34'43 2°33'28
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 05:59 11835 Aug 03 08:34 11835 Aug 09 21:19 11835 Aug 09 14:27 11835 Aug 09 14:27 11835 Aug 16 13:16 11835 Aug 30 18:09	5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$ 6°\$\Omega\$1'756 26°\$\Omega\$9'51 26°\$\Omega\$07'47 21°\$\Omega\$03'10 20°\$\Omega\$56'41 18°\$\Omega\$00'46 15°\$\Omega\$00'49 15°\$\Omega\$12'51 12°\$\Omega\$42'33 20°\$\Omega\$42'57	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15 0.61584 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jun 25 19:15 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 16 11:31 11836 Jul 16 13:58 11836 Jul 19 00:15 11836 Jul 20 02:05	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° \$40'03 25° \$246'13 0° \$\Omega\$ 6° \$\Omega 44'36\$ 10° \$\Omega 6'\Omega 20'33 3° \$\Omega 58'13 3° \$\Omega 51'20 1° \$\Omega 80'8\Omega 27' \$\Omega 42'24 25° \$\Omega 33'29	-2°13'11 2°13'56 18°13'39 2°34'43 2°33'28
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 05:59 11835 Aug 04 07:12 11835 Aug 09 21:19 11835 Aug 09 14:27 11835 Aug 06 13:16 11835 Aug 30 18:09 11835 Sep 07 18:36	5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$ 6°\$\Omega\$1'26 23°\$\Omega\$17'56 26°\$\Omega\$9'51 26°\$\Omega\$03'10 20°\$\Omega\$56'41 18°\$\Omega\$00'49 15°\$\Omega\$00'49 15°\$\Omega\$12'51 12°\$\Omega\$42'57 0°\$\Omega\$	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15 0.61584 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 16 11:31 11836 Jul 16 13:58 11836 Jul 19 00:15 11836 Jul 20 02:05 11836 Jul 22 14:46 11836 Jul 26 11:46 11836 Jul 29 06:47	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03 25° © 46'13 0° \(\Omega\) 6° \(\Omega\) 44'36 10° \(\Omega\) 0° \(\Omega\) 20' \(\Omega\) 1° \(\Omega\) 30° \(\Omega\) 27° \(\Omega\) 27° \(\Omega\) 25° \(\Omega\) 25° \(\Omega\) 6' \(\Omega\)	-2°13'11 2°13'56 18°13'39 2°34'43 2°33'28
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superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 05:59 11835 Aug 03 08:34 11835 Aug 00 9 21:19 11835 Aug 09 21:19 11835 Aug 09 14:27 11835 Aug 09 14:27 11835 Aug 01 13:16 11835 Aug 03 08:34 11835 Oct 03 06:09 11835 Oct 03 06:09 11835 Oct 03 04:16 11835 Oct 10 15:37 11835 Oct 10 15:37 11835 Oct 10 15:37 11835 Oct 11 05:00 11835 Oct 17 09:21 11835 Oct 25 12:25	0°\$5 5°\$56'06 6°\$21'22 27°\$06'36 0°\$1 6°\$131'26 23°\$17'56 26°\$03'51 26°\$00'47 21°\$00'46 15°\$00'49 15°\$12'51 12°\$042'33 20°\$142'57 0°\$\$ 0°\$\$ 12°\$\$254'52 12°\$\$245'12 24°\$\$253'25	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15 0.61584 AU 27°57'48	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 16 11:31 11836 Jul 16 13:58 11836 Jul 19 00:15 11836 Jul 20 02:05 11836 Jul 22 14:46 11836 Jul 22 14:46 11836 Jul 29 06:47 11836 Aug 12 03:09 11836 Sep 10 04:59 11836 Sep 10 04:59 11836 Sep 17 16:35 11836 Sep 17 16:35 11836 Sep 20 21:38 11836 Sep 20 21:38	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° \$40'03 25° \$46'13 0° \$\Omega\$ 6° \$\Omega 44'36\$ 10° \$\Omega 6'\Omega 20'33 3° \$\Omega 58'13 3° \$\Omega 58'13 3° \$\Omega 58'120 1° \$\Omega 80'8\Omega 27' \$\Omega 42'24 25° \$\Omega 33'29 25° \$\Omega 60'58 0° \$\Omega 3'\Omega 80'27 0° \$\Omega 26' \$\Omega 46'06 6° \$\Omega 39'26 13° \$\Omega 07'34 12° \$\Omega 56'56	-2°13'11 2°13'56 18°13'39 2°34'43 2°33'28 0.63759 AU 27°41'05
superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	11835 Jun 15 19:48 11835 Jun 19 10:07 11835 Jun 19 16:11 11835 Jul 01 17:54 11835 Jul 03 09:23 11835 Jul 07 03:11 11835 Jul 18 14:53 11835 Jul 25 03:26 11835 Jul 27 17:19 11835 Aug 03 05:59 11835 Aug 03 05:59 11835 Aug 04 06 07:12 11835 Aug 09 21:19 11835 Aug 09 14:27 11835 Aug 09 14:27 11835 Aug 01 13:16 11835 Aug 01 13:16 11835 Aug 03 08:34 11835 Aug 06 07:12 11835 Aug 07 12:19 11835 Aug 08 14:27 11835 Aug 09 14:27 11835 Aug 09 14:27 11835 Aug 09 14:27 11835 Aug 09 14:27 11835 Oct 03 06:09 11835 Oct 03 06:09 11835 Oct 03 04:16 11835 Oct 03 04:16 11835 Oct 10 15:37 11835 Oct 10 15:37 11835 Oct 10 15:37 11835 Oct 10 15:22 11835 Oct 17 09:21 11835 Oct 25 12:25 11835 Nov 05 11:22	0°\$5 5°\$56'06 6°\$21'22 27°\$06'36 0°\$\Omega\$ 6°\$\Omega\$17'56 26°\$\Omega\$07'47 21°\$\Omega\$03'10 20°\$\Omega\$6'41 18°\$\Omega\$00'46 15°\$\Omega\$00'49 15°\$\Omega\$12'51 12°\$\Omega\$42'57 0°\$\Omega\$ 12°\$\Omega\$54'52 12°\$\Omega\$45'12 24°\$\Omega\$53'25 28°\$\Omega\$46'08 28°\$\Omega\$33'43 0°\$\Omega\$ 13°\$\Omega\$1.34'49 0°\$\omega\$	-2°01'29 2°01'53 18°03'40 1°47'35 1°46'15 0.61584 AU 27°57'48 1.31696 AU 1°07'28 1°07'25	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node set asc. node max. Earth dist.	11836 May 25 11:11 11836 May 29 13:18 11836 May 29 14:17 11836 Jun 07 09:26 11836 Jun 12 14:47 11836 Jun 23 00:07 11836 Jul 01 04:57 11836 Jul 07 13:30 11836 Jul 10 11:37 11836 Jul 16 11:31 11836 Jul 16 13:58 11836 Jul 19 00:15 11836 Jul 20 02:05 11836 Jul 22 14:46 11836 Jul 22 14:46 11836 Jul 26 11:46 11836 Jul 29 06:47 11836 Aug 08 17:39 11836 Aug 12 03:09 11836 Sep 01 04:59 11836 Sep 16 00:16 11836 Sep 17 16:35 11836 Sep 19 00:58 11836 Sep 20 21:38 11836 Sep 23 22:18 11836 Sep 23 20:20 11836 Sep 30 20:43	9° II 10'29 15° II 39'54 15° II 43'49 0° © 8° © 40'03 25° © 46'13 0° \(\Omega\) 6° \(\Omega\) 44'36 10° \(\Omega\) 0° \(\Omega\) 20' \(\	-2°13'11 2°13'56 18°13'39 2°34'43 2°33'28 0.63759 AU 27°41'05
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. 1	11026N 05 22 11	110 7 57110		. 1	11027 0 + 17 11 50	210M 25120	
retrograde	11836 Nov 05 23:11	11° х 57'19		retrograde	11837 Oct 17 11:50	21°M35'20	
evening set	11836 Nov 10 02:07	11° ⋌ ¹20'25		evening set	11837 Oct 20 06:04	21°M17'54	
min. Earth dist.	11836 Nov 17 01:39	8° ∡ 106'52	0.55167 AU	inferior conj	11837 Oct 29 05:41	17°M22'38	
inferior conj	11836 Nov 18 12:49	7° ∡ 16′08	-5°51'05	minimum elong	11837 Oct 28 21:18	17° M 34'23	5°15'30
minimum elong	11836 Nov 18 12:12	7° ∡ 17'01	5°50'22	min. Earth dist.	11837 Oct 29 08:08	17° M ₊19'13	0.54572 AU
morning rise	11836 Nov 26 23:54	3° ∡ ¹25'57		morning rise	11837 Nov 06 13:30	13° M 34'01	
direct	11836 Nov 29 23:31	3° ∡ °04'50		direct	11837 Nov 10 08:09	13°ML03'12	
morning max el	11836 Dec 11 01:57	8° ∡ ′21′07	20°41'53	morning max el	11837 Nov 22 21:28	19°ML02'38	22°19'13
asc. node	11836 Dec 16 01:35	14° ₹ 05'13		· ·	11837 Dec 01 17:59	0° ∡ ¹	
	11836 Dec 25 14:24	0°ප		asc. node	11837 Dec 02 22:35	1° х 51'32	
morning set	11836 Dec 30 03:20	9° る 07'34		morning set	11837 Dec 02 22:33	23° 🗷 54'15	
morning set	11030 Dec 30 03.20	9 00/34		morning set		25 メ ・54 15	
	11027 1 06 14 05	240-722120	1000107		11837 Dec 17 10:42	0.0	
superior conj	11837 Jan 06 14:05	24° る 33'28	1°22'37				
minimum elong	11837 Jan 06 16:31	24° る 45'53	1°23'08	superior conj	11837 Dec 21 15:16	8° る 57'08	1°34'03
	11837 Jan 09 06:49	0° ≈		minimum elong	11837 Dec 21 16:41	9° る 04'42	1°34'46
max. Earth dist.	11837 Jan 11 17:53	4° ≈ 50'16	1.35970 AU	max. Earth dist.	11837 Dec 25 08:33	16° る 42'57	1.34143 AU
evening rise	11837 Jan 15 15:35	12° ≈ 13'42		evening rise	11837 Dec 29 19:03	25° る 34'17	
desc. node	11837 Jan 18 07:31	17° ≈ 03'57			11838 Jan 01 02:45	0° ≈	
	11837 Jan 25 22:07	0° ₩		desc. node	11838 Jan 05 04:22	7° ≈ 24'59	
	11837 Feb 16 14:03	0° Y			11838 Jan 19 08:51	0° ₩	
evening max el	11837 Feb 20 03:02	3° Y ′42'00	26°09'57	evening max el	11838 Feb 02 16:35	17° ¥ 21'32	27°01'36
retrograde	11837 Mar 04 20:53	10° Y ′57′00		retrograde	11838 Feb 16 00:35	24°) 45'31	_, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
evening set	11837 Mar 11 01:26	8° Υ 26'38		evening set	11838 Feb 22 15:08	22°) 12'21	
=		5° Υ 32'51		C		18° ¥ 22′22	0 (5570 AII
asc. node	11837 Mar 13 23:26		0.66070 ATT	min. Earth dist.	11838 Feb 26 14:11		0.65570 AU
min. Earth dist.	11837 Mar 15 05:54	4° Υ ′02'51	0.66978 AU	inferior conj	11838 Feb 28 18:11	15°) 54′24	
inferior conj	11837 Mar 16 21:52	1° Y ′59'29	0°55'39	minimum elong	11838 Feb 28 18:14	15° ¥ 54'16	0°01'51
minimum elong	11837 Mar 16 20:31	2° Y 03'38	0°55'11	transit middle	11838 Feb 28 18:14	15° ¥ 54'16	0°01'51
	11837 Mar 18 13:26	30° Ŗ ₩		transit begin	11838 Feb 28 15:16	16°) €02'44	
morning rise	11837 Mar 22 16:22	26° ∺ 13'32		transit end	11838 Feb 28 21:12	15°) 45′48	
direct	11837 Mar 25 20:39	25° 升 16′12		asc. node	11838 Feb 28 20:48	15°) 46′56	
morning max el	11837 Apr 01 11:13	28°) 49′08	18°38'34	morning rise	11838 Mar 06 22:44	10°) € 20'40	
	11837 Apr 02 14:39	$0^{\circ}\mathbf{\Upsilon}$		direct	11838 Mar 09 17:16	9° ₩ 39'08	
desc. node	11837 Apr 16 09:05	19° Ƴ 23'59		morning max el	11838 Mar 16 02:14	13° ¥ 00'00	18°04'55
morning set	11837 Apr 22 19:02	29° Y ′25'39		· ·	11838 Mar 28 06:41	$0^{\circ}\Upsilon$	
morning sec	11837 Apr 23 03:48	0°8		desc. node	11838 Apr 03 05:45	9° Υ '40'02	
max. Earth dist.	11837 May 08 05:42	23° 8 35'04	1.45670 AU	morning set	11838 Apr 03 13:11	10° Υ 10'19	
max. Lattii dist.	11037 Way 00 03.42	23 033 04	1.43070 AC	morning sec	11838 Apr 15 21:18	0°8	
superior conj	11837 May 08 23:14	24° 8 43'40	2005120		11030 Apr 13 21.10	v O	
1 3	•	24° 8 18'15			11020 A 10 07.52	20051112	1020120
minimum elong	11837 May 08 16:44	_	2 05 48	superior conj	11838 Apr 18 07:53	3° 8 51'12	
	11837 May 12 08:00	0°II		minimum elong	11838 Apr 17 22:32	3° 8 14'22	1°38'05
evening rise	11837 May 24 11:38	19° Ⅱ 13'15		max. Earth dist.	11838 Apr 21 01:53	8° 8 10'10	1.45633 AU
	11837 May 31 05:55	0 \circ		evening rise	11838 May 04 10:35	28° 8 56'05	
greatest brilliancy	11837 Jun 01 02:46	1° © 22'33	-0.9m		11838 May 05 03:08	Π $^{\circ}0$	
asc. node	11837 Jun 09 21:09	14° © 33'34		greatest brilliancy	11838 May 17 05:19	18° Ⅱ 28'46	-0.7m
evening max el	11837 Jun 14 17:04	20°522'22	18°41'28		11838 May 25 10:49	0 \circ \odot	
retrograde	11837 Jun 21 06:53	23°957'38		asc. node	11838 May 27 18:14	2°9544'32	
evening set	11837 Jun 24 13:20	22°956'36		evening max el	11838 May 29 00:55	4°গু05'44	19°26'10
inferior conj	11837 Jun 30 04:16	17°©18'11	3°02'27	retrograde		8°907'03	
minimum elong					11838 Jun 05 04:17	8 30/03	
	11837 Jun 30 05:50	17°9513'21	3°01'27	•			
min Farth dist	11837 Jun 30 05:50	17°513'21	3°01'27	evening set	11838 Jun 08 19:30	6°\$50'03	3°14'24
min. Earth dist.	11837 Jul 02 02:19	14° © 56'33	3°01'27 0.65631 AU	evening set inferior conj	11838 Jun 08 19:30 11838 Jun 14 04:53	6°950'03 0°957'14	
morning rise	11837 Jul 02 02:19 11837 Jul 05 21:30	14°956'33 10°956'35		evening set	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20	6°950'03 0°957'14 0°955'43	
morning rise direct	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55	14°\$56'33 10°\$56'35 8°\$14'25		evening set inferior conj minimum elong	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13	6°\$50'03 0°\$57'14 0°\$55'43 30°RII	3°13'35
morning rise direct desc. node	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02	14°956'33 10°956'35 8°914'25 8°918'16	0.65631 AU	evening set inferior conj minimum elong min. Earth dist.	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II14'20	
morning rise direct	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01	14°956'33 10°956'35 8°914'25 8°918'16 16°904'49		evening set inferior conj minimum elong min. Earth dist. morning rise	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09 11838 Jun 19 14:44	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02	3°13'35
morning rise direct desc. node	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42	14°956'33 10°956'35 8°914'25 8°918'16 16°904'49 0°\$0	0.65631 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02 21°II 56'03	3°13'35
morning rise direct desc. node morning max el	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$ 0°\$0000000000	0.65631 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13	6°\$50'03 0°\$57'14 0°\$55'43 30°RП 29°П14'20 24°П35'02 21°П56'03 23°П11'14	3°13'35 0.67096 AU
morning rise direct desc. node	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42	14°956'33 10°956'35 8°914'25 8°918'16 16°904'49 0°\$0	0.65631 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02 21°II 56'03	3°13'35 0.67096 AU
morning rise direct desc. node morning max el	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$ 0°\$0000000000	0.65631 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02 21°II 56'03 23°II 11'14 29°II 20'57 0°\$	3°13'35 0.67096 AU
morning rise direct desc. node morning max el	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Aug 30 07:55	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$1 0°\$1 9°\$1,47'41	0.65631 AU 26°52'26	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 14 22:13 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II14'20 24°II35'02 21°II56'03 23°II11'14 29°II20'57	3°13'35 0.67096 AU
morning rise direct desc. node morning max el morning set max. Earth dist.	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Aug 30 07:55 11837 Sep 03 12:56	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$0 0°\$0 9°\$047'41 18°\$02'53	0.65631 AU 26°52'26	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48 11838 Jul 08 15:59	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02 21°II 56'03 23°II 11'14 29°II 20'57 0°\$	3°13'35 0.67096 AU
morning rise direct desc. node morning max el morning set max. Earth dist.	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Aug 30 07:55 11837 Sep 03 12:56	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$\Omega\$ 0°\$\mathbf{n}\$ 9°\$\mathbf{n}\$47'41 18°\$\mathbf{n}\$02'53 22°\$\mathbf{n}\$51'17	0.65631 AU 26°52'26	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48 11838 Jul 08 15:59 11838 Jul 30 21:38	6°\$50'03 0°\$57'14 0°\$55'43 30°R∏ 29°∏14'20 24°∏35'02 21°∏56'03 23°∏11'14 29°∏20'57 0°\$ 0°\$	3°13'35 0.67096 AU
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Sep 03 12:56 11837 Sep 05 21:39 11837 Sep 07 23:16	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$0 0°\$0 9°\$047'41 18°\$02'53	0.65631 AU 26°52'26 1.33964 AU	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 15:59 11838 Jul 08 15:59 11838 Aug 13 01:25 11838 Aug 16 18:07	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02 21°II 56'03 23°II 11'14 29°II 20'57 0°\$ 0°\$\Omega\$ 22°\$\Omega\$17'59	3°13'35 0.67096 AU 25°40'17
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Sep 03 12:56 11837 Sep 05 21:39 11837 Sep 07 23:16 11837 Sep 07 22:14	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$\Omega\$ 0°\$\mathbf{n}\$ 9°\$\mathbf{n}\$47'41 18°\$\mathbf{n}\$02'53 22°\$\mathbf{n}\$51'17 27°\$\mathbf{n}\$08'48 27°\$\mathbf{n}\$03'26	0.65631 AU 26°52'26 1.33964 AU 0°19'56	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 15:59 11838 Jul 08 15:59 11838 Jul 30 21:38 11838 Aug 13 01:25	6°\$50'03 0°\$57'14 0°\$55'43 30°R∏ 29°∏14'20 24°∏35'02 21°∏56'03 23°∏11'14 29°∏20'57 0°\$ 0°\$ 22°\$\Omega\$17'59 29°\$\Omega\$10'21	3°13'35 0.67096 AU 25°40'17
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Sep 03 12:56 11837 Sep 05 21:39 11837 Sep 07 23:16 11837 Sep 07 22:14 11837 Sep 09 07:50	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$\Omega\$ 0°\$\mathbf{n}\$ 9°\$\mathbf{n}\$47'41 18°\$\mathbf{n}\$02'53 22°\$\mathbf{n}\$51'17 27°\$\mathbf{n}\$08'48 27°\$\mathbf{n}\$03'26 0°\$\mathbf{n}\$	0.65631 AU 26°52'26 1.33964 AU 0°19'56	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48 11838 Jul 08 15:59 11838 Jul 30 21:38 11838 Aug 13 01:25 11838 Aug 16 18:07 11838 Aug 17 04:33	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°I14'20 24°I35'02 21°I56'03 23°I11'14 29°I20'57 0°\$ 0°\$\Omega\$ 22°\$\Omega\$17'59 29°\$\Omega\$10'21 0°\$\mathbf{m}\$	3°13'35 0.67096 AU 25°40'17 1.35821 AU
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Sep 03 12:56 11837 Sep 05 21:39 11837 Sep 07 23:16 11837 Sep 07 22:14 11837 Sep 09 07:50 11837 Sep 15 06:58	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$\Omega\$ 0°\$\mathbf{n}\$ 9°\$\mathbf{n}\$47'41 18°\$\mathbf{n}\$02'53 22°\$\mathbf{n}\$51'17 27°\$\mathbf{n}\$08'48 27°\$\mathbf{n}\$03'26 0°\$\mathbf{n}\$ 12°\$\mathbf{n}\$38'56	0.65631 AU 26°52'26 1.33964 AU 0°19'56	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48 11838 Jul 08 15:59 11838 Jul 30 21:38 11838 Aug 13 01:25 11838 Aug 16 18:07 11838 Aug 17 04:33 11838 Aug 22 15:49	6°\$50'03 0°\$57'14 0°\$55'43 30°R∏ 29°∏14'20 24°∏35'02 21°∏56'03 23°∏11'14 29°∏20'57 0°\$ 0°\$\Omega\$ 22°\$\Omega\$17'59 29°\$\Omega\$10'21 0°\$\Omega\$	3°13'35 0.67096 AU 25°40'17 1.35821 AU -0°10'36
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong evening rise	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Sep 03 12:56 11837 Sep 05 21:39 11837 Sep 07 23:16 11837 Sep 07 22:14 11837 Sep 09 07:50 11837 Sep 15 06:58 11837 Sep 15 06:58 11837 Sep 24 03:00	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$\Omega\$ 0°\$\mathbf{n}\$ 9°\$\mathbf{n}\$47'41 18°\$\mathbf{n}\$02'53 22°\$\mathbf{n}\$51'17 27°\$\mathbf{n}\$08'48 27°\$\mathbf{n}\$03'26 0°\$\mathbf{n}\$ 12°\$\mathbf{n}\$38'56 0°\$\mathbf{m}\$	0.65631 AU 26°52'26 1.33964 AU 0°19'56 0°19'37	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48 11838 Jul 08 15:59 11838 Jul 30 21:38 11838 Aug 13 01:25 11838 Aug 17 04:33 11838 Aug 17 04:33	6°\$50'03 0°\$57'14 0°\$55'43 30°RII 29°II 14'20 24°II 35'02 21°II 56'03 23°II 11'14 29°II 20'57 0°\$ 0°\$\Omega\$ 22°\$\Omega\$17'59 29°\$\Omega\$10'21 0°\$\Omega\$ 10°\$\Omega\$43'21 10°\$\Omega\$46'39	3°13'35 0.67096 AU 25°40'17 1.35821 AU -0°10'36
morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong	11837 Jul 02 02:19 11837 Jul 05 21:30 11837 Jul 12 07:55 11837 Jul 13 09:02 11837 Jul 25 14:01 11837 Aug 06 01:42 11837 Aug 25 00:49 11837 Sep 03 12:56 11837 Sep 05 21:39 11837 Sep 07 23:16 11837 Sep 07 22:14 11837 Sep 09 07:50 11837 Sep 15 06:58	14°\$56'33 10°\$56'35 8°\$14'25 8°\$18'16 16°\$04'49 0°\$\Omega\$ 0°\$\mathbf{n}\$ 9°\$\mathbf{n}\$47'41 18°\$\mathbf{n}\$02'53 22°\$\mathbf{n}\$51'17 27°\$\mathbf{n}\$08'48 27°\$\mathbf{n}\$03'26 0°\$\mathbf{n}\$ 12°\$\mathbf{n}\$38'56	0.65631 AU 26°52'26 1.33964 AU 0°19'56 0°19'37	evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	11838 Jun 08 19:30 11838 Jun 14 04:53 11838 Jun 14 05:20 11838 Jun 15 12:09 11838 Jun 19 14:44 11838 Jun 25 15:40 11838 Jun 30 06:13 11838 Jul 08 00:48 11838 Jul 08 15:59 11838 Jul 30 21:38 11838 Aug 13 01:25 11838 Aug 16 18:07 11838 Aug 17 04:33 11838 Aug 22 15:49	6°\$50'03 0°\$57'14 0°\$55'43 30°R∏ 29°∏14'20 24°∏35'02 21°∏56'03 23°∏11'14 29°∏20'57 0°\$ 0°\$\Omega\$ 22°\$\Omega\$17'59 29°\$\Omega\$10'21 0°\$\Omega\$	3°13'35 0.67096 AU 25°40'17 1.35821 AU -0°10'36

asc. node	11838 Aug 23 18:21	12° m) 57'11		minimum elong	11839 Aug 05 23:32	23° Ω 56'22	0°44'02
evening rise	11838 Aug 30 13:59	26° m 56'46		8	11839 Aug 09 02:33	0° m	
C	11838 Sep 01 01:56	0∘ <u>⊽</u>		asc. node	11839 Aug 10 15:02	2° m 59'24	
evening max el	11838 Sep 17 10:12	26° ≙ 18'33	20°07'45	evening rise	11839 Aug 14 15:10	10° m 55'32	
	11838 Sep 22 04:34	0°M			11839 Aug 25 00:59	0∘ ⊽	
desc. node	11838 Sep 26 03:26	1°M25'40		evening max el	11839 Aug 31 03:13	7° ჲ 53'05	19°06'17
retrograde	11838 Sep 28 01:10	1°M35'32		retrograde	11839 Sep 09 02:35	12° ≏ 21'46	
evening set	11838 Sep 30 00:32	1°M25'24		evening set	11839 Sep 10 23:01	12° ≙ 11'06	
	11838 Oct 04 08:53	30° ŖΩ		desc. node	11839 Sep 13 00:51	11° ≏ 35'34	
inferior conj	11838 Oct 09 00:19	27° ≏ 26'47	-3°51'06	inferior conj	11839 Sep 19 09:47	7° ≏ 58'08	-1°59'50
minimum elong	11838 Oct 08 14:47	27° ≏ 41'02	3°47'44	minimum elong	11839 Sep 19 04:35	8° ≙ 07'00	1°57'46
min. Earth dist.	11838 Oct 10 16:42	26° ჲ 26'29	0.54916 AU	min. Earth dist.	11839 Sep 22 05:24	6° ഫ 03'20	0.56151 AU
morning rise	11838 Oct 17 03:59	23° ≏ 18'14		morning rise	11839 Sep 27 07:09	3° ₽ 14'56	
direct	11838 Oct 21 18:35	22° ≏ 32'11		direct	11839 Oct 02 17:19	2° ჲ 06'21	
morning max el	11838 Nov 04 09:08	29° ≏ 12'26	24°06'58	morning max el	11839 Oct 16 20:50	9° ≏ 19'49	25°48'46
	11838 Nov 05 04:49	0° M			11839 Nov 01 09:57	0° M ₊	
asc. node	11838 Nov 19 19:31	20° ML $22'24$		asc. node	11839 Nov 06 16:21	9° M 26′00	
	11838 Nov 24 21:29	0° ∡ ¹		morning set	11839 Nov 13 13:06	23°M22'31	
morning set	11838 Nov 29 01:51	8° ∡ 741′01			11839 Nov 16 14:10	0° ∡ 7	
superior conj	11838 Dec 05 22:08	23° ∡ ³34'58	1°38'48	superior conj	11839 Nov 20 08:24	8° √ 19'35	1°37'23
minimum elong	11838 Dec 05 22:25	23° × 36'28	1°39'35	minimum elong	11839 Nov 20 07:36	8° ≯ 15'08	1°38'04
max. Earth dist.	11838 Dec 08 06:55	28° × 41'53	1.32740 AU	max. Earth dist.	11839 Nov 21 11:48	10° ₹ 51'06	1.31808 AU
man. Darm dist.	11838 Dec 08 21:32	0°궁	1.527 10110	evening rise	11839 Nov 27 09:31	23° ∡ °34'32	1.51000110
evening rise	11838 Dec 13 10:02	9° る 23'54		evening rise	11839 Nov 30 13:11	0°る	
desc. node	11838 Dec 23 01:17	27° る 29'45		desc. node	11839 Dec 09 22:18	17° る 11'13	
dese. Hode	11838 Dec 24 12:21	0°≈		dese. Hode	11839 Dec 18 06:21	0°≈	
	11839 Jan 15 12:30	0° ∀		evening max el	11839 Dec 29 14:11	13°≈25'02	27°26'40
evening max el	11839 Jan 16 04:54	0° ¥ 39'45	27°29'14	retrograde	11840 Jan 12 11:37	20°≈43'04	2, 20 .0
retrograde	11839 Jan 29 21:50	8° ₩ 04'00	2, 2, 1.	evening set	11840 Jan 19 10:47	18° ≈ 26'46	
evening set	11839 Feb 05 19:13	5°) 34'59		min. Earth dist.	11840 Jan 23 04:25	15°≈32'48	0.61808 AU
min. Earth dist.	11839 Feb 09 14:12	2°) 15'48	0.63819 AU	inferior conj	11840 Jan 26 04:37	12° ≈ 47'46	
min. Bartii digt.	11839 Feb 11 19:02	30°R≈	0.03019110	minimum elong	11840 Jan 26 09:36	12°≈36'21	2°22'40
inferior conj	11839 Feb 12 05:27	29° ≈ 33'00	-1°09'41	morning rise	11840 Feb 02 11:08	7° ≈ 46'15	
minimum elong	11839 Feb 12 07:40	29°≈27'17		asc. node	11840 Feb 02 15:27	7°≈42'59	
asc. node	11839 Feb 15 18:10	26°≈11'49	1 00 17	direct	11840 Feb 04 15:41	7°≈25'18	
morning rise	11839 Feb 18 22:16	24°≈13'58		morning max el	11840 Feb 11 12:44	10°≈54'18	17°49'35
direct	11839 Feb 21 08:40	23° ≈ 44'39			11840 Feb 24 06:24	0° ∀	1, 1, 50
morning max el	11839 Feb 27 19:47	27°≈04'35	17°48'21	morning set	11840 Feb 27 06:15	5°) 20′34	
morning man er	11839 Mar 02 10:12	0° ∀	1, 1021	desc. node	11840 Mar 06 22:57	20°) (43'02	
morning set	11839 Mar 16 10:51	22°) 14'31		dese. node	11010111111 00 22.57	20 /(15 02	
desc. node	11839 Mar 21 02:21	0° Υ 07'41		superior conj	11840 Mar 09 08:40	24°) 50′39	-0°18'27
dose. Hode	11839 Mar 21 00:32	0° Υ		minimum elong	11840 Mar 09 06:57	24° X 43'19	
	11037 1141 21 00:32	V 1		g	11840 Mar 12 10:06	0°Υ	0 10 02
superior conj	11839 Mar 29 08:16	13° Y 46'45	-0°59'51	max. Earth dist.	11840 Mar 16 12:14	6° Υ 43'49	1.43457 AU
minimum elong	11839 Mar 29 01:58			evening rise	11840 Mar 23 14:21	18° Y ′00'07	
max. Earth dist.	11839 Apr 03 20:39	22° Y '37'38	1.44865 AU	evening rise	11840 Mar 31 10:52	0°8	
	11839 Apr 08 13:16	0°8			11840 Apr 22 11:01	0°II	
evening rise	11839 Apr 13 22:13	8° 8 18'07		evening max el	11840 Apr 24 00:02	1° Ⅱ 37'18	21°37'39
Č	11839 Apr 28 09:40	0°II		asc. node	11840 Apr 30 12:39	6° Ⅱ 26'06	
evening max el	11839 May 12 03:12	17° Ⅱ 50'47	20°25'57	retrograde	11840 May 03 01:23	6° Ⅱ 56'35	
asc. node	11839 May 14 15:25	20° Ⅱ 06'48		evening set	11840 May 07 12:33	5° Ⅱ 07'42	
retrograde	11839 May 20 03:07	22° II 28'13		Č	11840 May 11 23:20	30° ₹ 8	
evening set	11839 May 24 03:50	20° II 55'07		inferior conj	11840 May 12 19:07	28° 8 51'19	3°01'01
inferior conj	11839 May 29 10:34	14° Ⅱ 49'31	3°13'18	minimum elong	11840 May 12 17:40	28° 8 56'23	3°00'11
minimum elong	11839 May 29 09:59	14° ∏ 51'33	3°12'32	min. Earth dist.	11840 May 12 23:02	28° 8 37'36	0.68666 AU
min. Earth dist.	11839 May 30 03:47	13° Ⅲ 50′31	0.68113 AU	morning rise	11840 May 17 22:33	22° 8 36'51	
morning rise	11839 Jun 03 15:50	8° П 30'07		direct	11840 May 22 22:47	20° 8 26'42	
direct	11839 Jun 09 05:00	6° Ⅱ 02'34		morning max el	11840 Jun 01 21:21	26° 8 19'31	22°44'29
desc. node	11839 Jun 17 03:17	9° Ⅱ 43'22		desc. node	11840 Jun 03 00:14	27° 8 29'07	•
morning max el	11839 Jun 20 10:39	12° Ⅱ 46'39	24°14'18		11840 Jun 05 06:24	0°II	
5	11839 Jul 04 07:45	0°9			11840 Jun 26 20:35	0.ಕಾ 	
	11839 Jul 23 17:01	$0^{\circ}\Omega$		morning set	11840 Jul 05 22:56	14° © 27'39	
morning set	11839 Jul 26 00:01	3° Ω 55'11		max. Earth dist.	11840 Jul 10 13:48	22° © 11'22	1.40348 AU
max. Earth dist.	11839 Jul 29 16:00	10° Ω 22'23	1.38024 AU		11840 Jul 15 01:51	0°N	-
superior conj	11839 Aug 05 20:32	23° Ω 42′01	-0°44'02	superior conj	11840 Jul 18 09:25	5° Ω 56′07	-1°17'54

minimum elong	11840 Jul 18 14:55 11840 Jul 27 11:48	6°Ω21'03 22°Ω54'35	1°17'48	superior conj minimum elong	11841 Jun 30 01:55 11841 Jun 30 08:42	17°©15'01 17°©44'10	
evening rise	11840 Jul 28 07:25	$24^{\circ}\Omega 27'42$		minimum clong	11841 Jul 07 08:17	0°Ω	1 40 11
e vennig rise	11840 Jul 31 05:53	0° m)		evening rise	11841 Jul 11 10:42	7° Ω 23'05	
evening max el	11840 Aug 13 07:14	20° m) 11'22	18°26'07	asc. node	11841 Jul 14 08:38	12° Ω 38'27	
retrograde	11840 Aug 20 22:49	24° m/02'23			11841 Jul 25 01:47	0° m)	
evening set	11840 Aug 23 00:32	23° m/46'15		evening max el	11841 Jul 27 18:04	3° m 03'43	18°06'17
desc. node	11840 Aug 29 22:15	19° m 49'05		retrograde	11841 Aug 03 13:18	6° Mg 32′05	
inferior conj	11840 Aug 30 16:30	19° m 12'57	-0°14'09	evening set	11841 Aug 05 22:36	6°Mp06'41	
minimum elong	11840 Aug 30 15:58	19° m 14'02	0°14'09	inferior conj	11841 Aug 12 20:19	1° Mp 12'40	1°10'10
transit middle	11840 Aug 30 15:58	19° m 14'02	0°14'09	minimum elong	11841 Aug 12 22:21	1° m 07'57	1°09'01
transit begin	11840 Aug 30 14:15	19° m 17'26			11841 Aug 14 03:25	30°R Ω	
transit end	11840 Aug 30 17:40	19° m 10'37		min. Earth dist.	11841 Aug 16 02:11		0.60271 AU
min. Earth dist.	11840 Sep 02 23:51	16° Mp 35'46	0.58046 AU	desc. node	11841 Aug 16 19:37	27° Ω 35'37	
morning rise	11840 Sep 07 03:53	13° m 52'59		morning rise	11841 Aug 19 19:07	25° Ω 22'49	
direct	11840 Sep 13 06:25	12° Mp 16'46 19° Mp 54'12	27907115	direct	11841 Aug 26 07:59	23° Ω 18'52 0° m)	
morning max el	11840 Sep 27 14:19 11840 Oct 06 05:49	19 11 √ 34 12	27 07 13	morning max el	11841 Sep 08 08:57 11841 Sep 09 15:21	1° Mg 12'44	27°50'30
asc. node	11840 Oct 00 03.49 11840 Oct 23 13:07	0 = 28° £ 53'45		morning max er	11841 Sep 30 11:58	0° ⊽	27 30 39
asc. node	11840 Oct 24 02:23	0°M		asc. node	11841 Oct 10 09:50	0 — 18° ≏ 38'52	
morning set	11840 Oct 27 22:07	7°M54'19		morning set	11841 Oct 12 03:06	22° ₽ 11'51	
				3	11841 Oct 15 18:47	0°M	
superior conj	11840 Nov 03 20:03	23°M04'55	1°30'09	max. Earth dist.	11841 Oct 18 05:00	5° ™ 19'49	1.31434 AU
minimum elong	11840 Nov 03 18:23	22°M55'40	1°30'35				
max. Earth dist.	11840 Nov 03 20:24	23°M06'50	1.31372 AU	superior conj	11841 Oct 19 07:17	7°M45'35	1°17'19
	11840 Nov 06 22:43	0° ∡ ¹		minimum elong	11841 Oct 19 05:07	7° ጤ 33'33	1°17'27
evening rise	11840 Nov 10 14:59	7° ∡ °59'30		evening rise	11841 Oct 26 00:17	22°M32'54	
	11840 Nov 21 23:34	0°ಕ			11841 Oct 29 13:26	0° ∡ 7	
desc. node	11840 Nov 25 19:23	6° る 19'46		desc. node	11841 Nov 12 16:35	24° × ⁷ 42'39	
evening max el	11840 Dec 10 17:42	25° පි 25'00	26°49'53		11841 Nov 16 14:54	0°る	25040104
	11840 Dec 16 14:18	0°≈ 2°≈ •22152		evening max el	11841 Nov 22 13:03	6°る32'31 13°る32'37	25°40'04
retrograde evening set	11840 Dec 24 16:15 11840 Dec 31 10:01	2°≈33'52 0°≈39'04		retrograde evening set	11841 Dec 06 10:12 11841 Dec 12 12:33	13° る 32'37	
evening set	11840 Dec 31 10.01 11841 Jan 01 12:23	0 ≈3904 30°Rる		min. Earth dist.	11841 Dec 17 01:25	9° る 29'29	0.57613 AU
min. Earth dist.	11841 Jan 04 07:57	28°る00'48	0.59675 AU	inferior conj	11841 Dec 20 00:34	9 3 2929 7° 3 26'25	
inferior conj	11841 Jan 07 12:07	25° る 28'47		minimum elong	11841 Dec 20 08:45	7° る 12'13	
minimum elong	11841 Jan 07 19:42		3°40'56	morning rise	11841 Dec 28 07:25	3° る 07'59	
morning rise	11841 Jan 15 08:13	20°る47'45		direct	11841 Dec 30 12:14	2° ප 53'01	
direct	11841 Jan 17 10:20	20° る 31'32		asc. node	11842 Jan 06 09:52	5° ರ 31'18	
asc. node	11841 Jan 19 12:42	20° る 48'38		morning max el	11842 Jan 08 06:19	7° ⋜ 08'00	18°51'04
morning max el	11841 Jan 25 01:30	24° る 18'52	18°09'53		11842 Jan 22 20:32	0°≈	
	11841 Jan 29 16:43	0° ≈		morning set	11842 Jan 24 14:52	3° ≈ 26′20	
morning set	11841 Feb 09 17:12	19° ≈ 09'14					
	11841 Feb 15 12:29	0° ∀		superior conj	11842 Feb 02 04:10	20°≈03'39	0°49'47
	11041 F 1 10 00 41	701/00106	0010107	minimum elong	11842 Feb 02 06:58	20°≈16'58	0°49'56
superior conj	11841 Feb 19 08:41 11841 Feb 19 10:09	7° ∺ 00'06 7° ∺ 06'41	0°19'07 0°19'16	JJ.	11842 Feb 07 13:12 11842 Feb 08 16:15	0° ∺ 2° ∺ 01'05	
minimum elong desc. node	11841 Feb 19 10.09	11° H 21'54	0 1910	desc. node max. Earth dist.	11842 Feb 08 16.13	2 ★0103 3°¥06'46	1.39379 AU
max. Earth dist.	11841 Feb 26 23:38	20° X 16'10	1.41559 AU	evening rise	11842 Feb 13 04:52	9°) 53'19	1.39379 AU
evening rise	11841 Mar 03 23:01	28°\(\frac{1}{2}\)28'51	1209110	evening rise	11842 Feb 25 18:50	0° Υ	
	11841 Mar 04 21:38	0° Υ		evening max el	11842 Mar 20 06:28	29° Υ 14'51	24°17'04
	11841 Mar 25 01:17	$0^{\circ}B$		C	11842 Mar 21 01:02	0° ႘	
evening max el	11841 Apr 06 16:30	15° 8 25'07	22°56'41	retrograde	11842 Mar 31 14:24	5° 8 53'31	
retrograde	11841 Apr 16 21:33	21° 8 26'41		asc. node	11842 Apr 04 07:18	4° 8 51'05	
asc. node	11841 Apr 17 09:58	21° 8 25'25		evening set	11842 Apr 06 00:44	3° 8 36'45	
evening set	11841 Apr 21 20:02	19° 8 22'55			11842 Apr 09 08:37	30° ₹Ƴ	
inferior conj	11841 Apr 27 04:27	12° 8 58'15		min. Earth dist.	11842 Apr 10 15:44	28° Y 17'59	0.68398 AU
minimum elong	11841 Apr 27 02:27	13° 8 05'12	2°37'37	inferior conj	11842 Apr 11 12:44	27° Y °07'13	2°06'20
min. Earth dist.	11841 Apr 26 19:44	13° 8 28'29	0.68757 AU	minimum elong	11842 Apr 11 10:34	27° Υ 14'30	2°05'24
morning rise	11841 May 02 08:45	6° 8 50'12		morning rise	11842 Apr 16 20:32	21° Υ 06'40	
direct	11841 May 06 19:48	5° 8 00'45	21010/24	direct	11842 Apr 20 18:47	19° Y 38'48	20005111
morning max el desc. node	11841 May 15 12:16	10° 8 01'46 16° 8 08'01	21°19'24	morning max el	11842 Apr 28 10:12	23° Y 56'02 0° と	20°05'11
desc. node	11841 May 20 21:06 11841 May 31 01:16	0°∏ 16° 0 08′01		desc. node	11842 May 03 16:41 11842 May 07 17:54	5° 8 25'46	
morning set	11841 Jun 15 20:01	23° 耳 50'57		dese. Hode	11842 May 24 08:00	0° П	
morning bot	11841 Jun 19 16:44	0°95		morning set	11842 May 25 22:22	2° Ⅱ 27'21	
max. Earth dist.	11841 Jun 22 17:21		1.42499 AU	max. Earth dist.	11842 Jun 05 03:46		1.44222 AU

superior conj	11842 Jun 10 18:32	27° I [31'39	-2°08'32	minimum elong	11843 May 21 10:41	6° Ⅱ 45'12	2°13'09
minimum elong	11842 Jun 10 23:03	27° Ⅱ 50′06	2°09'08		11843 Jun 04 21:51	0°9	
-	11842 Jun 12 06:43	0°©		evening rise	11843 Jun 05 07:01	0°537'30	
evening rise	11842 Jun 23 20:07	19° © 29'35		asc. node	11843 Jun 18 02:32	21°509'47	
	11842 Jun 29 23:32	$0^{\circ}\Omega$		evening max el	11843 Jun 24 21:25	29° © 51'51	18°23'23
asc. node	11842 Jul 01 05:32	2° Ω 05'30			11843 Jun 25 00:43	$0^{\circ}\Omega$	
evening max el	11842 Jul 11 07:53	16° Ω 19'50	18°05'39	retrograde	11843 Jul 01 07:20	3° Ω 18′05	
retrograde	11842 Jul 17 17:38	19° Ω 40'19		evening set	11843 Jul 04 08:50	2° Ω 26′08	
evening set	11842 Jul 20 10:57	19° Ω 02'41			11843 Jul 07 10:20	30° ₹ 5	
inferior conj	11842 Jul 26 17:42	13° Ω 50′02	2°10'13	inferior conj	11843 Jul 10 04:29	26° © 56'52	2°48'35
minimum elong	11842 Jul 26 20:21	13° Ω 43′01	2°08'51	minimum elong	11843 Jul 10 06:37		2°47'27
min. Earth dist.	11842 Jul 29 13:56	10° Ω 50'34	0.62528 AU	min. Earth dist.	11843 Jul 12 11:09		0.64591 AU
morning rise	11842 Aug 02 03:39	7° Ω 40'37		morning rise	11843 Jul 16 03:08	20°537'31	
desc. node	11842 Aug 03 16:59	6° Ω 40'05		desc. node	11843 Jul 21 14:16	18° © 02'08	
direct	11842 Aug 08 20:10	5° Ω 14'07		direct	11843 Jul 22 17:18	17° © 57'43	
morning max el	11842 Aug 22 22:24	13° Ω 16'30	27°55'11	morning max el	11843 Aug 05 08:40	25°957'12	27°23'53
	11842 Sep 05 08:08	0° m/			11843 Aug 09 02:13	0° N	
	11842 Sep 22 23:46	0° ⊽			11843 Aug 29 21:36	0° m/y	
morning set	11842 Sep 26 01:55	6° £ 08'44		morning set	11843 Sep 09 16:01	19° Mp 38'45	
asc. node	11842 Sep 27 06:31	8° £ 35'10	1 22006 ATT	asc. node	11843 Sep 14 03:13	28° Mp 38'24	1 22000 ATT
max. Earth dist.	11842 Oct 01 09:34	17° ≏ 18'26	1.32006 AU	max. Earth dist.	11843 Sep 14 06:18	28° m 54'21	1.33099 AU
aumorior aoni	11942 Oct 02 16:11	220 0 15117	0.50104		11843 Sep 14 18:58	0∘ ಹ	
superior conj minimum elong	11842 Oct 03 16:11 11842 Oct 03 13:59	22° £ 15'17 22° £ 03'13	0°59'04 0°58'56	superior conj	11843 Sep 17 20:44	6° £ 28'51	0°35'39
minimum ciong	11842 Oct 03 13:39 11842 Oct 07 04:46	0°M	0 38 30	minimum elong	11843 Sep 17 20:44 11843 Sep 17 19:05	6° £ 20'01	0°35'20
evening rise	11842 Oct 07 04:40 11842 Oct 10 11:24	7° M 08'22		evening rise	11843 Sep 17 19.03	0 = 2001 21° £ 41'12	0 33 20
evening rise	11842 Oct 10 11:24 11842 Oct 22 06:33	7 11608 22 0° √ 1		evening rise	11843 Sep 24 22:35	0°M	
desc. node	11842 Oct 30 13:51	0 ✗ 12° ✗ 01'28		evening max el	11843 Oct 16 11:52	26°M57'57	22°25'10
evening max el	11842 Nov 04 00:52	16° × 53'50	24°06'24	desc. node	11843 Oct 17 11:11	27°M52'53	22 23 10
retrograde	11842 Nov 17 16:10	23° х 42'47	24 0024	dese. Hode	11843 Oct 20 01:36	0° √ 1	
evening set	11842 Nov 22 14:56	22° × ⁷ 49'04		retrograde	11843 Oct 29 09:59	3° ₹ 123'11	
min. Earth dist.	11842 Nov 28 11:44	19° х 54'00	0.55886 AU	evening set	11843 Nov 01 21:44	2° × 56'23	
inferior conj	11842 Nov 30 16:21	18° × 33'49		evening sec	11843 Nov 08 18:06	30°RM	
minimum elong	11842 Nov 30 20:24			min. Earth dist.	11843 Nov 09 18:58	29°M25'16	0.54805 AU
morning rise	11842 Dec 09 03:54	14° ∡ ³35'57		inferior conj	11843 Nov 10 14:53	28°M57'08	-5°44'16
direct	11842 Dec 11 18:20	14° ∡ 18'31		minimum elong	11843 Nov 10 10:32	29°M03'17	5°43'14
morning max el	11842 Dec 21 23:21	19° ∡ 10′27	19°54'54	morning rise	11843 Nov 19 00:46	25°M09'41	
asc. node	11842 Dec 24 06:59	21° х 37'56		direct	11843 Nov 22 07:54	24°M45'07	
	11842 Dec 30 05:34	5°0			11843 Dec 03 17:37	0°⊀	
morning set	11843 Jan 08 19:38	18° ට 00'41		morning max el	11843 Dec 04 02:21	0° ∡ ¹20'19	21°21'08
	11843 Jan 14 16:57	0° ≈		asc. node	11843 Dec 11 04:01	8° ₹ 52'18	
					11843 Dec 22 21:03	ව°0	
superior conj	11843 Jan 16 14:16	3° ≈ 47'14	1°12'48	morning set	11843 Dec 24 04:46	2° る 44'25	
minimum elong	11843 Jan 16 17:05	4° ≈ 01'13	1°13'09				
max. Earth dist.	11843 Jan 22 13:23	15° ≈ 19'14	1.37161 AU	superior conj	11843 Dec 31 10:54	17° る 58'56	1°28'19
evening rise	11843 Jan 26 07:03	22° ≈ 09'56		minimum elong	11843 Dec 31 12:56	18° る 09'32	1°28'55
desc. node	11843 Jan 26 13:00	22°≈36'33		max. Earth dist.	11844 Jan 04 23:41	27° る 12'13	1.35146 AU
	11843 Jan 30 18:47	0°) €			11844 Jan 06 09:45	0° ≈	
	11843 Feb 19 15:20	0° Υ	25022405	evening rise	11844 Jan 09 02:22	5°≈10'09	
evening max el	11843 Mar 02 19:47	13° Y 05′29	25°32'07	desc. node	11844 Jan 13 09:48	13°≈04'11	
retrograde	11843 Mar 15 03:02	20°Υ11'22			11844 Jan 23 14:22	0°) (26924120
evening set	11843 Mar 21 01:05	17° Y 44'39 16° Y 41'15		evening max el	11844 Feb 13 09:24	26° ¥ 51'49 0° Ƴ	26°34'29
asc. node min. Earth dist.	11843 Mar 22 04:40 11843 Mar 25 08:59	13° Υ 01'01	0.67608 AU	ratra ara da	11844 Feb 16 22:28 11844 Feb 26 10:20	0 γ 4° Υ 12'37	
inferior conj	11843 Mar 26 18:05	13 γ 01 01 11° Υ 14'48	1°24'21	retrograde evening set	11844 Mar 03 19:15	4 γ 12 3 / 1° Υ 40'26	
minimum elong	11843 Mar 26 16:16	11° Y 20'39	1°23'37	evening set	11844 Mar 05 15:16	1 1 40 20 30° ₹	
morning rise	11843 Apr 01 07:57	5° Υ 23'05	1 2331	min. Earth dist.	11844 Mar 07 21:17	27° H 31'02	0.66417 AU
direct	11843 Apr 04 18:22	4° Υ 15'27		asc. node	11844 Mar 08 02:03	27° H 17'01	J.0071 / AU
morning max el	11843 Apr 11 15:54	8° Υ 01'12	19°05'32	inferior conj	11844 Mar 09 18:23		0°32'21
desc. node	11843 Apr 24 14:38	25° Υ 12'06	.	minimum elong	11844 Mar 09 17:32	25° H 18'37	0°32'10
greatest brilliancy	11843 Apr 24 18:56	25° Υ 28'12	-0.7m	morning rise	11844 Mar 15 16:52	19°) 34'55	,
<u> </u>	11843 Apr 27 18:40	0°8		direct	11844 Mar 18 16:43	18°) (44'51	
morning set	11843 May 05 01:57	11° 8 14'18		morning max el	11844 Mar 25 04:06	22°) 11'36	18°22'07
5 · · ·	11843 May 17 03:32	0° I I		<i>5</i>	11844 Mar 31 11:45	0° Υ	
max. Earth dist.	11843 May 18 19:33		1.45336 AU	desc. node	11844 Apr 10 11:19	15° Ƴ 18'54	
	-			morning set	11844 Apr 14 03:24	21° Y 09'00	
superior conj	11843 May 21 12:58	6° Ⅲ 54'15	-2°12'28		11844 Apr 19 17:18	9° 8	
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superior conj minimum elong	11844 Apr 29 20:04 11844 Apr 29 11:30	_	-1°56'10 1°56'04	superior conj minimum elong	11845 Apr 09 09:43 11845 Apr 09 01:10	25°\dagger16'55 24°\dagger42'53	
max. Earth dist.	11844 Apr 30 14:33 11844 May 08 20:51	17° ႘ 05'39 0°Ⅱ	1.45742 AU	max. Earth dist.	11845 Apr 12 09:13 11845 Apr 13 10:39	0° 8 1° 8 40'10	1.45400 AU
evening rise greatest brilliancy	11844 May 15 17:43 11844 May 25 19:13	10° Ⅱ 45'54 26° Ⅱ 29'51	-0.8m	evening rise	11845 Apr 25 10:07 11845 May 01 19:14	20° 8 15′19 0° Ⅱ	
asc. node	11844 May 28 02:21 11844 Jun 03 23:36	0°ତ 9° ତ 42'44		greatest brilliancy evening max el	11845 May 09 20:56 11845 May 21 13:37	12° Ⅱ 04'26 27° Ⅱ 16'46	-0.6m 19°49'54
evening max el retrograde	11844 Jun 07 07:57 11844 Jun 14 02:37	13° © 32'18 17° © 17'08	18°58'35	asc. node	11845 May 21 20:43 11845 May 24 18:18	27° ∏ 34'25 0° ©	
evening set	11844 Jun 17 12:42	16°909'29		retrograde	11845 May 29 00:46	1°931'51	
inferior conj minimum elong	11844 Jun 23 00:55 11844 Jun 23 02:01	10° © 25'03 10° © 21'32	3°09'12 3°08'19	evening set	11845 Jun 01 20:01 11845 Jun 02 00:12	0°©07'53 30°R∏	
min. Earth dist.	11844 Jun 24 16:44	8°518'41	0.66309 AU	inferior conj	11845 Jun 07 03:57	24° Ⅱ 09'34 24° Ⅱ 09'34	3°15'21
morning rise direct	11844 Jun 28 14:40 11844 Jul 04 21:34	4° © 02'42 1° © 20'24		minimum elong min. Earth dist.	11845 Jun 07 03:57 11845 Jun 08 05:08	22° I 45'02	3°14'34 0.67595 AU
desc. node morning max el	11844 Jul 07 11:29 11844 Jul 17 19:27	1°5944'00 9°5902'03	26°23'58	morning rise direct	11845 Jun 12 11:33 11845 Jun 18 07:48	17° Ⅱ 48'29 15° Ⅱ 13'28	
morning max cr	11844 Aug 03 06:14	$0^{\circ}\Omega$	20 23 36	desc. node	11845 Jun 24 08:38	17° Ⅱ 22'10	
morning set	11844 Aug 21 09:12 11844 Aug 22 18:06	0° Mp 2° Mp32'57		morning max el	11845 Jun 30 05:34 11845 Jul 06 22:06	22° Ⅱ 21'48 0° ©	25°04'42
max. Earth dist.	11844 Aug 26 16:45	10° m 06'50	1.34698 AU		11845 Jul 27 13:20	$0^{\circ}\Omega$	
asc. node	11844 Aug 30 23:54	18° m 44'05		morning set max. Earth dist.	11845 Aug 05 04:04 11845 Aug 08 18:10	14° Ω 41'06 21° Ω 12'11	1.36732 AU
superior conj	11844 Aug 31 18:28	20° m 19'21	0°07'29		11845 Aug 13 09:33	0° m p	
minimum elong behind sun begin	11844 Aug 31 18:04 11844 Aug 31 12:44	20° Mp 17'16 19° Mp 49'53	0°07'11	superior conj	11845 Aug 15 06:25	3° m 39'13	-0°24'32
behind sun end	11844 Aug 31 23:23 11844 Sep 05 09:49	20° Mp 44'43 0° <u>№</u>		minimum elong asc. node	11845 Aug 15 08:00 11845 Aug 17 20:36	3° Mp 47'02 8° Mp 48'29	0°24'40
evening rise	11844 Sep 03 07:37	6° ჲ 05'39		evening rise	11845 Aug 23 12:27	20° Mp 15'42	
evening max el	11844 Sep 21 07:49 11844 Sep 27 07:27	0° ጤ 7° ጤ 21'49	20°52'48	evening max el	11845 Aug 28 10:52 11845 Sep 09 16:38	0° ೭ 18° ೭ 28'08	19°38'57
desc. node	11844 Oct 03 08:33	11°M48'28	20 32 40	retrograde	11845 Sep 19 13:55	23° ≙ 23'42	17 3037
retrograde evening set	11844 Oct 08 20:58 11844 Oct 11 05:02	13°M06'13 12°M53'10		desc. node evening set	11845 Sep 20 05:57 11845 Sep 21 10:47	23° £ 22'25 23° £ 13'55	
inferior conj	11844 Oct 20 06:42	8°M58'33		inferior conj	11845 Sep 30 06:12	19° ഫ 10′09	
minimum elong min. Earth dist.	11844 Oct 19 20:50 11844 Oct 21 02:13	9°M12'33 8°M30'46	4°43'13 0.54603 AU	minimum elong min. Earth dist.	11845 Sep 29 22:09 11845 Oct 02 11:52	19° Ω 22'47 17° Ω 46'06	3°01'47 0.55342 AU
morning rise	11844 Oct 28 12:46	5°M03'46		morning rise	11845 Oct 08 07:39	14° ≙ 48'25	
direct morning max el	11844 Nov 01 16:07 11844 Nov 14 17:28	4° ጤ 27'00 10° ጤ 44'47	23°04'31	direct morning max el	11845 Oct 13 06:56 11845 Oct 27 03:59	13° ♀ 53'42 20° ♀ 48'21	24°52'12
asc. node	11844 Nov 27 00:58	26°M59'12		1	11845 Nov 04 02:01	0°M	
morning set	11844 Nov 28 18:51 11844 Dec 07 16:10	0° ∡¹ 17° ∡¹ 31'52		asc. node	11845 Nov 13 21:51 11845 Nov 21 02:13	15° M 45'04 0° ⋌	
	11844 Dec 13 11:00	5°0		morning set	11845 Nov 22 03:58	2° ∡ 16'57	
superior conj	11844 Dec 14 14:48	2° ට 29'39		superior conj	11845 Nov 28 23:21	17° ∡ 10′50	1°38'56
minimum elong max. Earth dist.	11844 Dec 14 15:45 11844 Dec 17 17:42	2°る34'44 9°る07'00	1°37'36 1.33495 AU	minimum elong max. Earth dist.	11845 Nov 28 23:09 11845 Nov 30 19:24	17° ⋌ 109'44 21° ⋌ 11'45	1°39'41 1.32286 AU
evening rise	11844 Dec 22 11:11	18° පි 44'42			11845 Dec 04 22:23	0°궁	
desc. node	11844 Dec 28 09:57 11844 Dec 30 06:39	0° ≈ 3° ≈ 19'18		evening rise desc. node	11845 Dec 06 06:06 11845 Dec 17 03:36	2°ත්44'01 23°ත්15'10	
	11845 Jan 16 18:32	0° ∺ 10° ∺ 24'56	27917147	i	11845 Dec 21 05:42	0°≈	27922107
evening max el retrograde	11845 Jan 25 22:53 11845 Feb 08 11:23	10° X 24°36 17° X 49'31	2/1040	evening max el	11846 Jan 08 10:19 11846 Jan 17 19:32	23°≈31'00 0°) €	27°32'07
evening set	11845 Feb 15 05:11	15° ¥ 17'34	0.64062.411	retrograde	11846 Jan 22 05:14	0° ¥ 52'14	
min. Earth dist.	11845 Feb 19 02:25 11845 Feb 21 11:14	11° 光 40'51 9° 光 05'31	0.64863 AU -0°29'38	evening set	11846 Jan 26 09:54 11846 Jan 29 04:16	30°R≈ 28°≈27'38	
minimum elong	11845 Feb 21 12:06	9° ₩ 03'07	0°28'54	min. Earth dist.	11846 Feb 01 22:19	25°≈20'08	0.62998 AU
asc. node morning rise	11845 Feb 22 23:23 11845 Feb 27 20:44	7° ∺ 28'30 3° ∺ 37'21		inferior conj minimum elong	11846 Feb 04 17:45 11846 Feb 04 21:05	22°≈34'56 22°≈26'43	-1°40'54 1°38'59
direct	11845 Mar 02 11:36	3° ∺ 01′23	17055	asc. node	11846 Feb 09 20:42	18° ≈ 15'56	
morning max el	11845 Mar 08 20:30 11845 Mar 24 21:45	6° 米 20'41 0° Υ	17°55'41	morning rise direct	11846 Feb 11 16:16 11846 Feb 13 24:00	17°≈22'51 16°≈57'24	
morning set	11845 Mar 26 09:53	2° Y 29'51		morning max el	11846 Feb 20 14:09	20°≈19'40	17°46'38
desc. node	11845 Mar 28 07:57	5° Y 40'35		morning set	11846 Feb 27 20:41 11846 Mar 08 17:35	0° \ 15° \ 02'43	

desc. node	11846 Mar 15 04:32 11846 Mar 17 10:22	26°) 11'47 0° γ		morning set	11847 Feb 19 20:13 11847 Feb 20 16:16	28° ≈ 28'26 0° 米	
superior conj	11846 Mar 20 19:52	5° Ƴ 40'14	-0°42'07	superior conj	11847 Mar 02 06:42	17°) 13'13	-0°01'49
minimum elong	11846 Mar 20 15:34	5° Y ′22'27	0°41'30	minimum elong	11847 Mar 02 06:34	17° ¥ 12'37	0°01'32
max. Earth dist.	11846 Mar 27 04:50	16° Y ′02'08	1.44345 AU	behind sun begin	11847 Mar 01 22:26	16°) €37'09	
evening rise	11846 Apr 04 21:48	29° Y 41'18		behind sun end	11847 Mar 02 14:43	17°) (48′01	
	11846 Apr 05 02:39	0° 8		desc. node	11847 Mar 02 01:07	16°) 48′50	
	11846 Apr 25 12:38	0°П			11847 Mar 09 19:53	0° Υ	
evening max el	11846 May 04 13:30	11° Ⅲ 02'15	20°55'11	max. Earth dist.	11847 Mar 09 18:37	29°) 54'46	1.42698 AU
asc. node	11846 May 08 17:55	14° Ⅱ 31'50		evening rise	11847 Mar 15 19:48	9° Υ 40'08	
retrograde	11846 May 12 23:35	15° Ⅲ 56'51 14° Ⅲ 16'42		avanina may al	11847 Mar 29 05:27	0° と 24° と 48'15	22010/41
evening set inferior conj	11846 May 17 04:45 11846 May 22 11:07	8° Д 06'08	3°09'23	evening max el	11847 Apr 17 08:04 11847 Apr 24 11:50	24 Ο 48 13	22 1041
minimum elong	11846 May 22 10:08	8° Д 00'03	3°08'35	asc. node	11847 Apr 25 15:12	0° П 18'57	
min. Earth dist.	11846 May 22 22:29	7° Ⅱ 26'45	0.68409 AU	retrograde	11847 Apr 26 21:15	0°П26'25	
morning rise	11846 May 27 15:18	1° Ⅱ 48'49		Ü	11847 Apr 29 03:34	30°R₩	
-	11846 May 30 09:20	30°₽ ႘		evening set	11847 May 01 13:08	28° 8 30'55	
direct	11846 Jun 01 22:59	29° 8 28'23		inferior conj	11847 May 06 20:14	22° 8 10'21	2°52'43
	11846 Jun 04 16:42	Π °0		minimum elong	11847 May 06 18:30	22° 8 16'23	
desc. node	11846 Jun 11 05:39	4° Ⅱ 28'27		min. Earth dist.	11847 May 06 18:39	22° 8 15'52	0.68756 AU
morning max el	11846 Jun 12 15:36	5° Ⅱ 50'58	23°36'03	morning rise	11847 May 11 23:43	15° 8 58'25	
	11846 Jul 01 07:53	0.20 0.20		direct	11847 May 16 18:11	13° 8 57'03	22007117
morning set	11846 Jul 17 17:10	25° © 52'06 0° Ω		morning max el desc. node	11847 May 26 03:49	19° 8 27'49 22° 8 38'46	22°0/1/
max. Earth dist.	11846 Jul 20 03:10 11846 Jul 21 15:43	2°Ω39'00	1.39017 AU	desc. node	11847 May 29 02:34 11847 Jun 04 00:17	22 О 3846	
max. Earm dist.	11040 Jul 21 13.43	2 863900	1.39017 AU		11847 Jun 24 11:51	0°€	
superior conj	11846 Jul 29 04:57	16° Ω 20'10	-0°58'33	morning set	11847 Jun 28 05:01	5° 9 54'49	
minimum elong	11846 Jul 29 09:03	16° Ω 39'21		max. Earth dist.	11847 Jul 03 15:23	14° © 49'45	1.41295 AU
asc. node	11846 Aug 04 17:19	28° Ω 48'18					
	11846 Aug 05 08:04	0° m)		superior conj	11847 Jul 11 09:38	28°5511'24	-1°31'28
evening rise	11846 Aug 07 10:20	4° m 04'41		minimum elong	11847 Jul 11 15:57	28° © 39'24	1°31'25
	11846 Aug 23 06:07	0∘ ⊽			11847 Jul 12 10:04	0 $^{\circ}$ Ω	
evening max el	11846 Aug 23 14:43	0° ≏ 21'52	18°46'35	evening rise	11847 Jul 21 21:38	17° Ω 22'29	
retrograde	11846 Aug 31 23:26	4° ₽ 33'19		asc. node	11847 Jul 22 14:07	18° Ω 39'06	
evening set desc. node	11846 Sep 02 21:28	4° Ω 20'53		avanina may al	11847 Jul 28 20:14	0° Т р 12° Т р 55'32	18°15'16
inferior conj	11846 Sep 07 03:23 11846 Sep 11 00:25	2° ♀ 35'55 29° ₥ 59'14	1013101	evening max el retrograde	11847 Aug 06 22:06 11847 Aug 14 03:51	12 lly 33 32 16° Mp 35'20	18 13 10
minimum elong	11846 Sep 10 21:23	29 iii)39 14 0° Ω 04'47		evening set	11847 Aug 14 03.31 11847 Aug 16 08:31	16° My 15'48	
minimum ciong	11846 Sep 11 00:00	30°R, m)	1 11 32	inferior conj	11847 Aug 23 16:28	11° m ₀ 33'44	0°24'38
min. Earth dist.	11846 Sep 14 02:41	27° m/44'32	0.56888 AU	minimum elong	11847 Aug 23 17:17	11° mp 31'58	0°23'58
morning rise	11846 Sep 18 17:57	24° m 59'52		desc. node	11847 Aug 25 00:48	10° m 24'17	
direct	11846 Sep 24 11:25	23°M/40'16		min. Earth dist.	11847 Aug 27 00:35	8° m 44'03	0.58967 AU
	11846 Oct 07 14:03	0∘ ⊽		morning rise	11847 Aug 30 22:36	5° m 59'30	
morning max el	11846 Oct 08 17:54	1° ≏ 04'51	26°26'03	direct	11847 Sep 06 06:13	4° m) 10′59	
	11846 Oct 29 03:13	0°M,		morning max el	11847 Sep 20 14:47	11° m) 57'17	27°30'23
asc. node	11846 Oct 31 18:39	4°M59'51		1-	11847 Oct 04 18:53	0° 亞	
morning set	11846 Nov 06 14:29 11846 Nov 12 13:32	16°M55'02 0° <i>⊀</i> 7		asc. node	11847 Oct 18 15:23 11847 Oct 21 06:37	24° £ 35'17 0° ™	
	110401101 12 13.32	· ^		morning set	11847 Oct 21 00:37	1°M20'59	
superior conj	11846 Nov 13 10:26	1° ∡ 756'19	1°35'00		10., 00. 21 22.01	. 1102037	
minimum elong	11846 Nov 13 09:14	1° ∡ ′49′38	1°35'36	superior conj	11847 Oct 28 22:08	16° ™ 39'57	1°25'22
max. Earth dist.	11846 Nov 14 02:22	3° х 24′52	1.31559 AU	minimum elong	11847 Oct 28 20:13	16°M29'14	1°25'42
evening rise	11846 Nov 20 08:24	17° ∡ °01′09		max. Earth dist.	11847 Oct 28 11:14	15°M39'10	1.31330 AU
	11846 Nov 26 19:48	ರ∘ರ			11847 Nov 03 23:02	0° ∡ ¹	
desc. node	11846 Dec 04 00:38	12° る 43'56		evening rise	11847 Nov 04 15:43	1° ∡ ′29'42	
	11846 Dec 16 04:07	0° ≈			11847 Nov 19 21:21	0° る	
evening max el	11846 Dec 21 17:16	5°≈57'19	27°15'08	desc. node	11847 Nov 20 21:49	1°る34'41	26922152
retrograde	11847 Jan 04 15:15	13°≈11'48 11°≈03'12		evening max el	11847 Dec 03 17:18	17°る34'19 24°る40'24	20~23'53
evening set min. Earth dist.	11847 Jan 11 13:23 11847 Jan 15 07:45	8°≈17'43	0.60912 AU	retrograde evening set	11847 Dec 17 16:00 11847 Dec 24 04:26	24° ろ 40'24 22° ろ 56'59	
inferior conj	11847 Jan 18 10:39	5°≈36'01		min. Earth dist.	11847 Dec 24 04:20 11847 Dec 28 06:53	22 3 3039 20° る 21'15	0.58766 AU
minimum elong	11847 Jan 18 16:50	5°≈22'37	2°55'46	inferior conj	11847 Dec 31 10:23	20 ප 21 13	
morning rise	11847 Jan 25 23:08	0°≈43'13	-	minimum elong	11847 Dec 31 18:37	17° る 43'48	4°13'22
asc. node	11847 Jan 27 17:59	0° ≈ 25'11		morning rise	11848 Jan 08 11:38	13° පි 28'04	
direct	11847 Jan 28 02:13	0° ≈ 24'42		direct	11848 Jan 10 13:57	13° る 12'57	
morning max el	11847 Feb 04 05:49	3° ≈ 59'58	17°55'49	asc. node	11848 Jan 14 15:11	14° පි 12'42	

morning max el	11848 Jan 18 15:46	17° る 11'09	18°24'48	morning max el	11848 Dec 31 15:57	29° ∡ ¹41'14	19°15'27
	11848 Jan 27 18:12	0° ≈		asc. node	11848 Dec 31 12:20	29° ₹ 32'35	
morning set	11848 Feb 03 12:17	12° ≈ 30'45			11848 Dec 31 23:36	0°₹	
				morning set	11849 Jan 17 13:22	26° る 56'17	
superior conj	11848 Feb 12 15:40	29° ≈ 47'47	0°33'01		11849 Jan 19 02:12	0° ≈	
minimum elong	11848 Feb 12 17:54	29° ≈ 58′05	0°33'09				
	11848 Feb 12 18:19	0°) €		superior conj	11849 Jan 25 17:53	13° ≈ 09'36	1°00'29
desc. node	11848 Feb 16 21:46	7° ∺ 28'30		minimum elong	11849 Jan 25 20:49	13° ≈ 23′50	1°00'42
max. Earth dist.	11848 Feb 20 03:41	13° ¥ 08'12	1.40645 AU	max. Earth dist.	11849 Feb 01 10:04	25° ≈ 40'53	1.38422 AU
evening rise	11848 Feb 24 13:23	20°) 32′59		desc. node	11849 Feb 02 18:28	28° ≈ 06'32	
	11848 Mar 01 10:22	$0^{\circ}\mathbf{\Upsilon}$			11849 Feb 03 20:03	0°) €	
	11848 Mar 22 10:16	0°8		evening rise	11849 Feb 05 04:14	2°) € 20'53	
evening max el	11848 Mar 29 23:14	8° 8 37'15	23°31'08		11849 Feb 22 14:52	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	11848 Apr 09 16:18	14° 8 56'08		evening max el	11849 Mar 12 12:56	22° Y 28'38	24°50'10
asc. node	11848 Apr 11 12:31	14° 8 40'16		retrograde	11849 Mar 24 07:23	29° Ƴ 19'54	
evening set	11848 Apr 14 19:39	12° 8 46'43		asc. node	11849 Mar 29 09:53	27° Y ′24'42	
min. Earth dist.	11848 Apr 19 15:27	7° 8 07'14	0.68654 AU	evening set	11849 Mar 29 22:41	26° Ƴ 58'44	
inferior conj	11848 Apr 20 05:24	6° 8 19'20	2°26'07	min. Earth dist.	11849 Apr 03 10:37	21° Y 54'50	0.68115 AU
minimum elong	11848 Apr 20 03:16	6° 8 26'38	2°25'09	inferior conj	11849 Apr 04 12:41	20° Y ′28'36	1°49'45
morning rise	11848 Apr 25 10:50	0° 8 14'03		minimum elong	11849 Apr 04 10:36	20° Ƴ 35'31	1°48'53
. 8	11848 Apr 25 18:09	30°RƳ		morning rise	11849 Apr 09 22:44	14° Ƴ 31'24	
direct	11848 Apr 29 16:19	28° Y ′33'47		direct	11849 Apr 13 15:53	13° Υ 12'11	
	11848 May 03 22:55	0°8		morning max el	11849 Apr 20 22:38	17° Y °14'18	19°37'50
morning max el	11848 May 07 21:28	3° 8 15'19	20°46'09	morning man er	11849 May 01 01:27	0°8	1, 3, 50
desc. node	11848 May 14 23:24	11° 8 36'01	20 100)	desc. node	11849 May 01 20:09	1° 8 07'04	
desc. Hode	11848 May 27 21:58	0°II		greatest brilliancy	11849 May 03 15:48	3° 8 45'42	-0.6m
morning set	11848 Jun 06 16:27	14° ∏ 53'21		morning set	11849 May 16 16:23	23° 8 25'53	0.0111
max. Earth dist.	11848 Jun 14 21:21	27° I 53'45	1.43298 AU	morning set	11849 May 20 22:27	0°Ⅱ	
max. Lartii dist.	11848 Jun 16 04:29	0°95	1.43270 AU	max. Earth dist.	11849 May 28 10:22		1.44788 AU
	11040 Juli 10 04.2)	0 3		max. Earth dist.	11049 Way 20 10.22	11 4771/	1.44700710
superior conj	11848 Jun 21 16:15	9° 5 04'28	-1°58'20	superior conj	11849 Jun 01 22:49	18° Ⅱ 56'25	-2°12'33
minimum elong	11848 Jun 21 22:39	9° © 31'20		minimum elong	11849 Jun 02 00:52	19° Ⅱ 04'37	
evening rise	11848 Jul 03 17:56	29°\$58'26			11849 Jun 08 18:02	0°9	
0.10000	11848 Jul 03 18:17	0°Ω		evening rise	11849 Jun 15 18:12	11°9540'40	
asc. node	11848 Jul 08 11:00	8°Ω16'34		asc. node	11849 Jun 25 07:57	27°934'51	
evening max el	11848 Jul 20 10:44	25° Ω 59'33	18°03'45	use. Houe	11849 Jun 26 20:59	0°Ω	
retrograde	11848 Jul 27 00:37	29° Ω 22'30	10 05 45	evening max el	11849 Jul 04 00:51	9° Ω 23'45	18°11'01
evening set	11848 Jul 29 13:21	28° Ω 52'13		retrograde	11849 Jul 10 09:22	12° Ω 44'41	10 11 01
inferior conj	11848 Aug 05 04:15	23° Ω 50'20	1°38'30	evening set	11849 Jul 13 06:16	12°Ω01'01	
minimum elong	11848 Aug 05 06:45	23°Ω44'13		inferior conj	11849 Jul 19 07:48	6°Ω41'02	2°28'52
min. Earth dist.	11848 Aug 08 06:54		0.61251 AU	minimum elong	11849 Jul 19 10:20	6° Ω 34'01	
desc. node	11848 Aug 10 22:11	18° Ω 32'44	0.01231710	min. Earth dist.	11849 Jul 21 22:32	3°Ω48'01	0.63448 AU
morning rise	11848 Aug 11 21:31	17° Ω 50'58		morning rise	11849 Jul 25 12:45	0° Ω 26'42	0.03440710
direct	11848 Aug 18 12:58	15° Ω 36'08		morning risc	11849 Jul 26 03:17	30°R.55	
morning max el	11848 Sep 01 18:30	23° Ω 34'56	27°57'06	desc. node	11849 Jul 28 19:30	28°932'17	
morning max er	11848 Sep 07 12:39	0°m)	27 37 00	direct	11849 Aug 01 05:04	27° 9 53'22	
	11848 Sep 27 01:48	0∘ ত المار		direct	11849 Aug 07 03:04 11849 Aug 07 20:47	0° Ω	
asc. node	11848 Oct 04 12:06	0 <u>−</u> 14° <u>Ω</u> 25'34		morning max el	11849 Aug 15 03:04	5° Ω 55'09	27045!51
morning set	11848 Oct 05 00:37	15° £ 30'02		morning max ci	11849 Sep 02 10:18	0° m)	27 43 31
max. Earth dist.	11848 Oct 10 18:22		1.31614 AU	morning set	11849 Sep 18 20:05	29° Mp 16'35	
max. Lartii dist.	11848 Oct 10 18:45	27 = 4337 0° M	1.51014 AU	morning set	11849 Sep 19 04:44	ე∘ ⊽	
	11040 OCt 11 10.43	O IIG		asc. node	11849 Sep 19 04.44 11849 Sep 21 08:49	0 = 4° ჲ 25'40	
aumorior comi	11040 Oct 12 00:20	10 M 16126	1910/14		-		1 22411 ATT
superior conj	11848 Oct 12 08:38	1°M.16'36		max. Earth dist.	11849 Sep 23 20:07	9 == 30 24	1.32411 AU
minimum elong	11848 Oct 12 06:23	1°M04'11	1°10'14		11040 0 26 15 50	150 0 40141	0040146
evening rise	11848 Oct 19 02:02	16°M04'24		superior conj	11849 Sep 26 15:58	15° 2 40'41	
4 4-	11848 Oct 25 21:25	0° 🔏 10° -₹2212.6		minimum elong	11849 Sep 26 13:55	15° 2 29'34	0°49'32
desc. node	11848 Nov 06 19:03	19° 🗷 32'36	25002122		11849 Oct 03 05:57	0°M	
evening max el	11848 Nov 14 09:13	28° ₹ 20'30	25-02-22	evening rise	11849 Oct 03 13:25	0°M40'06	
	11848 Nov 16 05:32	0°る		3 1	11849 Oct 19 15:56	0° ₹ ¹	
retrograde	11848 Nov 28 05:03	5° る 16'22		desc. node	11849 Oct 24 16:22	6° ₹ 17'58	22022112
evening set	11848 Dec 03 20:49	4°る04'29	0.57011 ***	evening max el	11849 Oct 26 19:46	8° ∡ 731′05	25~25'12
min. Earth dist.	11848 Dec 08 21:12		0.56811 AU	retrograde	11849 Nov 09 05:08	15° 🗷 11'14	
	11848 Dec 10 23:22	30°₹ ⋌ ¹	5020155	evening set	11849 Nov 13 13:27	14° 🗷 30'12	0.55000 : *-
inferior conj	11848 Dec 11 14:01	29° 🗷 35'52		min. Earth dist.	11849 Nov 20 05:35		0.55333 AU
minimum elong	11848 Dec 11 21:08	29° 🗷 24'11	5~18'55	inferior conj	11849 Nov 21 21:43	10° ₹ 23'28	
morning rise	11848 Dec 19 23:40	25° 7 26'26		minimum elong	11849 Nov 21 22:25	10° ₹ 22'26	5°50'13
direct	11848 Dec 22 07:34	25° ∡ 10′56		morning rise	11849 Nov 30 09:07	6° ∡ ³31'46	

direct	11849 Dec 03 06:15	6° ∡ 11'42		direct	11850 Nov 13 15:34	16°M16'54	
morning max el	11849 Dec 14 03:00	11° x 21'23	20°29'00	morning max el	11850 Nov 26 00:21	22°M10'01	22°03'40
asc. node	11849 Dec 18 09:24	16° ∡ 10'15	20 27 00	morning max or	11850 Dec 02 16:40	0° ₹	22 03 10
	11849 Dec 26 23:46	0°ਰ		asc. node	11850 Dec 05 06:24	3° ∡ ¹48'35	
morning set	11850 Jan 01 20:18	11° る 35'56		morning set	11850 Dec 17 06:37	26° ∡ ¹21'58	
C				C	11850 Dec 18 23:48	ರ°0	
superior conj	11850 Jan 09 08:54	27° る 06'29	1°20'16				
minimum elong	11850 Jan 09 11:27	27° る 19'25	1°20'43	superior conj	11850 Dec 24 08:58	11° る 27'19	
	11850 Jan 10 19:19	0° ≈		minimum elong	11850 Dec 24 10:34	11° る 35'44	1°33'26
max. Earth dist.	11850 Jan 14 17:54	7° ≈ 44'19	1.36271 AU	max. Earth dist.	11850 Dec 28 07:18		1.34391 AU
evening rise	11850 Jan 18 14:09	14° ≈ 57'17		evening rise	11851 Jan 01 15:35	28° る 12'42	
desc. node	11850 Jan 20 15:15	18° ≈ 39'22			11851 Jan 02 14:01	0° ≈	
	11850 Jan 27 06:07	0°) {		desc. node	11851 Jan 07 12:05	9°≈02'16	
	11850 Feb 17 07:02	0°Υ	2.000012.0		11851 Jan 20 11:50	0°) {	0.005.511.57
evening max el	11850 Feb 23 02:28	6°Υ18'43 13°Υ31'34	26°00'36	evening max el	11851 Feb 05 15:57	19° ¥ 59'58 27° ¥ 23'43	26°55'17
retrograde	11850 Mar 07 17:38	13° γ 31'34 11° γ 01'56		retrograde	11851 Feb 18 22:20 11851 Feb 25 11:32	24°\(\frac{7}{50}\)'29	
evening set asc. node	11850 Mar 13 20:36 11850 Mar 16 07:14	8° Υ 38'44		evening set min. Earth dist.	11851 Feb 23 11.32	24 K 50 29 20° X 55'37	0.65798 AU
min. Earth dist.	11850 Mar 18 01:55	6° Υ 33'10	0.67155 AU	asc. node	11851 Mar 03 04:35	18°\(\frac{1}{35}\) 56'34	0.03798 AU
inferior conj	11850 Mar 19 16:08	4° Υ 33'57	1°03'31	inferior conj	11851 Mar 03 13:32	18° ¥ 30'38	0°07'15
minimum elong	11850 Mar 19 14:38	4° Υ 38'37	1°02'59	minimum elong	11851 Mar 03 13:19	18°) 31'14	0°07'25
g	11850 Mar 23 18:22	30°R) €	1 020)	transit middle	11851 Mar 03 13:19	18° ¥ 31'14	0°07'25
morning rise	11850 Mar 25 09:21	28°) 46'34		transit begin	11851 Mar 03 10:42	18° ¥ 38'51	· · · - ·
direct	11850 Mar 28 15:12	27°) 46'39		transit end	11851 Mar 03 15:57	18°) €23'38	
	11850 Apr 02 18:30	0° Υ		morning rise	11851 Mar 09 16:26	12° ¥ 54'59	
morning max el	11850 Apr 04 07:17	1° Y 22'21	18°45'03	direct	11851 Mar 12 12:16	12° ¥ 11'25	
desc. node	11850 Apr 18 16:51	21° Y ′02'49		morning max el	11851 Mar 18 21:40	15°) 33′30	18°08'51
	11850 Apr 24 11:12	9° 8			11851 Mar 29 12:46	0° Y	
morning set	11850 Apr 26 03:28	2° 8 37'07		desc. node	11851 Apr 05 13:29	11° Y 16'37	
max. Earth dist.	11850 May 11 04:26	26° 8 05'59	1.45606 AU	morning set	11851 Apr 06 17:13	13° Y ′08'45	
					11851 Apr 17 05:38	0° 8	
superior conj	11850 May 12 10:27	28° 8 03'28					
minimum elong	11850 May 12 04:57	27° 8 41'55	2°08'25	superior conj	11851 Apr 21 18:08	7° 8 07'37	
	11850 May 13 16:11	0°П		minimum elong	11851 Apr 21 08:46	6° 8 30'49	
evening rise	11850 May 27 18:41	22° Ⅱ 22'44		max. Earth dist.	11851 Apr 24 00:18	10° 8 39'46	1.45680 AU
	11850 Jun 01 12:35	0°©	0.0		11851 May 06 10:30	0° П 2° П 11'38	
greatest brilliancy asc. node	11850 Jun 03 07:36 11850 Jun 12 04:58	2° © 52'04 16° © 26'56	-0.9m	evening rise greatest brilliancy	11851 May 07 20:26 11851 May 19 23:23	2°Щ11'38 20°Щ49'58	-0.7m
evening max el	11850 Jun 17 13:21	23°500'03	18°36'13	greatest offinancy	11851 May 19 25.25 11851 May 26 08:00	20 п 49 38	-U. /III
retrograde	11850 Jun 24 01:54	26°532'39	16 30 13	asc. node	11851 May 20 08:00 11851 May 30 02:03	0 ع 4°9544'19	
evening set	11850 Jun 27 07:03	25°934'00		evening max el	11851 May 31 21:56	6°9542'55	19°18'29
inferior conj	11850 Jul 02 23:05	19° 9 57'49	2°59'17	retrograde	11851 Jun 07 22:53	10°939'47	1, 102,
minimum elong	11850 Jul 03 00:49	19° 9 52'34	2°58'16	evening set	11851 Jun 11 12:42	9° 5 25'16	
min. Earth dist.	11850 Jul 04 23:22	17° 5 31'05	0.65371 AU	inferior conj	11851 Jun 16 22:42	3° 5 34'34	3°13'26
morning rise	11850 Jul 08 17:39	13° © 36'31		minimum elong	11851 Jun 16 23:20	3° © 32'30	3°12'36
direct	11850 Jul 15 05:05	10°954'46		min. Earth dist.	11851 Jun 18 08:12	1° 9 45'17	0.66905 AU
desc. node	11850 Jul 15 16:45	10° © 55'36			11851 Jun 19 17:52	30°RⅡ	
morning max el	11850 Jul 28 13:55	18° 5 48'05	27°01'28	morning rise	11851 Jun 22 09:29	27° Ⅱ 12'05	
	11850 Aug 07 01:14	0 $^{\circ}$ Ω		direct	11851 Jun 28 12:02	24° Ⅱ 31'55	
	11850 Aug 26 10:10	0° m		desc. node	11851 Jul 02 13:54	25° Ⅱ 30'57	
morning set	11850 Sep 02 05:29	12° m 32'29			11851 Jul 08 22:12	0°ഇ	
max. Earth dist.	11850 Sep 06 12:56	21° Mp 03'23	1.33723 AU	morning max el	11851 Jul 11 00:46	2° © 01'57	25°52'06
asc. node	11850 Sep 08 05:28	24° Mp 30'25			11851 Aug 01 03:48	0°N	
	11050 0 10 17 54	200m 45111	000 411 4	morning set	11851 Aug 16 01:19	25° Ω 09'20	
superior conj	11850 Sep 10 17:54	29° Mp 45'11	0°24'14	Earth diet	11851 Aug 18 15:44	0° M)	1 25510 ATT
minimum elong	11850 Sep 10 16:41 11850 Sep 10 20:43	29° ™ 38'47 0° ₽	0°23'54	max. Earth dist.	11851 Aug 19 19:16	2° Mp 10'55	1.35518 AU
evening rise	11850 Sep 10 20:45 11850 Sep 17 23:55	0 <u>≈</u> 15° ≏ 10'19		superior conj	11851 Aug 25 11:52	13° m 23'54	-0°05'45
Svennig 1150	11850 Sep 17 25:35 11850 Sep 25 09:47	0°M		minimum elong	11851 Aug 25 11:32 11851 Aug 25 12:13	13° m) 25'42	0°05'59
evening max el	11850 Oct 08 09:12	18°M38'47	21°43'57	behind sun begin	11851 Aug 25 06:29	12° m) 56'43	
desc. node	11850 Oct 11 13:44	21°M23'55		behind sun end	11851 Aug 25 17:57	13° m 54'44	
retrograde	11850 Oct 20 18:59	24°M48'58		asc. node	11851 Aug 26 02:10	14° m/36'23	
evening set	11850 Oct 23 17:22	24°M29'30		evening rise	11851 Sep 02 07:31	29° m/29'51	
inferior conj	11850 Nov 01 15:39	20°M33'28	-5°26'27	-	11851 Sep 02 13:22	0∘ ⊽	
minimum elong	11850 Nov 01 08:08	20°M44'00	5°24'42	evening max el	11851 Sep 20 10:14	99° 1 9'03 <u>م</u>	20°18'46
min. Earth dist.	11850 Nov 01 12:06	20°M38'26	0.54605 AU		11851 Sep 21 03:15	0° M ₊	
morning rise	11850 Nov 10 00:02	16°M45'52		desc. node	11851 Sep 28 11:06	4° ጤ 21'44	

. 1	11051 0 + 01 07 16	40 M 42110		. 1	11052 0 11 07 07	150 0 21155	
retrograde	11851 Oct 01 07:16	4°M43'18		retrograde	11852 Sep 11 06:06	15° £ 21'55	
evening set	11851 Oct 03 08:15	4°M32'43	100 (10 =	evening set	11852 Sep 13 02:23	15° £ 11'38	
inferior conj	11851 Oct 12 09:01	0°M35'36		desc. node	11852 Sep 14 08:30	14° ≙ 53'30	
minimum elong	11851 Oct 11 23:10	0°M50'05	4°03'16	inferior conj	11852 Sep 21 15:38	11° ≏ 01'24	
	11851 Oct 13 09:10	30° ₹ Ω		minimum elong	11852 Sep 21 09:39	11° ≏ 11'22	
min. Earth dist.	11851 Oct 13 20:20	29° ≏ 43'37	0.54806 AU	min. Earth dist.	11852 Sep 24 08:13	9° ₽ 14'12	0.55917 AU
morning rise	11851 Oct 20 13:19	26° £ 31′03		morning rise	11852 Sep 29 14:10	6° ≏ 24'00	
direct	11851 Oct 25 00:59	25° £ 47'35		direct	11852 Oct 04 21:44	5° ≏ 19'06	
	11851 Nov 04 17:56	0° M		morning max el	11852 Oct 18 23:44	12° ≏ 28′00	25°34'46
morning max el	11851 Nov 07 12:37	2°M22'29	23°50'49		11852 Nov 01 14:00	0° M ₊	
asc. node	11851 Nov 22 03:18	22°M13'18		asc. node	11852 Nov 08 00:09	11° M .12'55	
	11851 Nov 26 07:59	0° ∡ ¹		morning set	11852 Nov 15 05:50	25° M 51′58	
morning set	11851 Dec 01 18:22	11° ∡ ′08′53			11852 Nov 17 03:40	0° ∡ ¹	
	11051 D 00 15:00	269.702120	1929/20	:	11052 N 22 01.02	100.74000	1927150
superior conj	11851 Dec 08 15:08	26° ₹ 03'30	1°38'29	superior conj	11852 Nov 22 01:03	10° × 48'00	1°37'58
minimum elong	11851 Dec 08 15:35	26° ₹ 05'57	1°39'16	minimum elong	11852 Nov 22 00:24	10° 🗷 44'25	1°38'41
B 4 F	11851 Dec 10 10:58	0°る	1 22020 1 77	max. Earth dist.	11852 Nov 23 08:39	13° 🗷 42'19	1.31916 AU
max. Earth dist.	11851 Dec 11 04:25	1°る33'18	1.32920 AU	evening rise	11852 Nov 29 03:29	26° ₹ '07'17	
evening rise	11851 Dec 16 05:03	11° ට 58'38			11852 Dec 01 00:55	0° ろ	
desc. node	11851 Dec 25 08:59	29° る 09'59		desc. node	11852 Dec 11 05:59	18° る 55'58	
	11851 Dec 25 20:31	0° ≈			11852 Dec 18 06:53	0° ≈	
	11852 Jan 15 21:40	0° ∀		evening max el	11852 Dec 31 14:39		27°29'11
evening max el	11852 Jan 19 04:36	3° ¥ 22′21	27°26'58	retrograde	11853 Jan 14 11:35	23° ≈ 33'10	
retrograde	11852 Feb 01 20:41	10° ∺ 47'11		evening set	11853 Jan 21 10:51	21° ≈ 14'35	
evening set	11852 Feb 08 17:12	8° 升 17'13		min. Earth dist.	11853 Jan 25 04:32	18° ≈ 17'15	0.62123 AU
min. Earth dist.	11852 Feb 12 12:41	4°) 53′34	0.64095 AU	inferior conj	11853 Jan 28 03:34	15° ≈ 31'49	-2°13'23
inferior conj	11852 Feb 15 02:20	2° 升 12'15	-0°58'52	minimum elong	11853 Jan 28 08:06	15° ≈ 21'12	2°10'58
minimum elong	11852 Feb 15 04:10	2° ₩ 07'25	0°57'40	asc. node	11853 Feb 03 23:13	10° ≈ 34'59	
	11852 Feb 17 06:41	30° ₹ ≈		morning rise	11853 Feb 04 07:59	10° ≈ 27'18	
asc. node	11852 Feb 18 01:55	29° ≈ 15'53		direct	11853 Feb 06 13:15	10° ≈ 05'18	
morning rise	11852 Feb 21 17:11	26° ≈ 50'46		morning max el	11853 Feb 13 08:15	13° ≈ 32'18	17°48'11
direct	11852 Feb 24 04:39	26° ≈ 19'53			11853 Feb 24 14:46	0° ∀	
morning max el	11852 Mar 01 15:00	29° ≈ 39′28	17°49'41	morning set	11853 Mar 01 03:43	8°) €00'40	
	11852 Mar 01 23:13	0° ∺		desc. node	11853 Mar 09 06:42	22° 升 17'21	
morning set	11852 Mar 18 11:06	25° ₩ 02'08					
Č	11852 Mar 21 09:38	$0^{\circ}\Upsilon$		superior conj	11853 Mar 12 12:04	27°) 47′26	-0°24'35
desc. node	11852 Mar 22 10:05	1° Ƴ 42'45		minimum elong	11853 Mar 12 09:42	27° ∺ 37'28	0°24'06
				Č	11853 Mar 13 19:35	$0^{\circ}\Upsilon$	
superior conj	11852 Mar 31 15:21	16° Ƴ 53'54	-1°06'05	max. Earth dist.	11853 Mar 19 11:39	9° Ƴ 19'53	1.43708 AU
minimum elong	11852 Mar 31 08:23	16° Ƴ 25'45	1°05'19	evening rise	11853 Mar 26 23:18	21° Υ 11'06	
max. Earth dist.	11852 Apr 05 19:14	25° Y ′08'39	1.45022 AU	* · · · · · · · · · · · · · · · · · · ·	11853 Apr 01 17:30	0°8	
man zarm and.	11852 Apr 08 21:21	0°8	1.10022110		11853 Apr 23 03:08	0°II	
evening rise	11852 Apr 16 08:44	11° 8 34'02		evening max el	11853 Apr 26 22:45	4° Ⅱ 14'20	21°26'23
evening rise	11852 Apr 28 14:12	0°II		asc. node	11853 May 02 20:27	8° ∏ 44'41	21 2023
evening max el	11852 May 14 01:07	20° I I27'59	20°16'12	retrograde	11853 May 05 19:59	9° П 26'56	
asc. node	11852 May 15 23:13	22° I 14'52	20 10 12	evening set	11853 May 10 05:36	7° Ⅱ 40'15	
retrograde	11852 May 21 21:34	24° ∏ 59'21		inferior conj	11853 May 15 12:02	1° Ⅱ 25'24	3°03'34
evening set	11852 May 25 20:49	23° II 28'41		minimum elong	11853 May 15 10:42	1° I I30'03	3°02'43
inferior conj	11852 May 31 03:47	17° II 25'01	2017/12	min. Earth dist.	11853 May 15 10:42 11853 May 15 17:53	1° Ⅱ 05'02	0.68618 AU
minimum elong	11852 May 31 03:47	17° I I25'01		mm. Larm dist.	11853 May 16 12:40	30°R 8	0.00010 AC
	•	17 Ⅱ 20 32 16° Ⅱ 19'12	0.67994 AU	morning rise	11853 May 10 12.40 11853 May 20 15:36	25° 8 10'14	
min. Earth dist.	11852 May 31 23:04	11° I I05'05	0.07994 AU	morning rise direct		23 810 14 22°857'14	
morning rise	11852 Jun 05 09:34				11853 May 25 17:50		22057145
direct	11852 Jun 11 00:39	8° I I35'17		morning max el	11853 Jun 04 20:58	28° 8 57'41	22°57'45
desc. node	11852 Jun 18 10:58	11° Ⅱ 49'44	0.400712.0	desc. node	11853 Jun 05 07:58	29° 8 25'41	
morning max el	11852 Jun 22 10:35	15° Ⅱ 26'05	24°27'32		11853 Jun 05 21:06	0°II	
	11852 Jul 04 09:43	0°©			11853 Jun 28 03:05	0°95	
	11852 Jul 24 01:53	0° Ω		morning set	11853 Jul 09 05:44	17°537'44	1 4000 = : **
morning set	11852 Jul 28 03:02	6° Ω 55'08	1.00001.1	max. Earth dist.	11853 Jul 13 15:22	25° © 02'45	1.40007 AU
max. Earth dist.	11852 Jul 31 17:45	13° Ω 19'48	1.37684 AU		11853 Jul 16 11:52	$0^{\circ}\Omega$	
superior conj	11852 Aug 07 18:36	26° Ω 28'39	-0°38'52	superior conj	11853 Jul 21 10:09	8° Ω 50'12	-1°12'54
minimum elong	11852 Aug 07 21:13	26° Ω 41'16		minimum elong	11853 Jul 21 15:18	9° Ω 13'46	
	11852 Aug 09 14:07	0° m)	-	asc. node	11853 Jul 29 19:39	24° Ω 36'18	•
asc. node	11852 Aug 11 22:53	4° m) 39'34		evening rise	11853 Jul 31 03:36	27° Ω 08'52	
evening rise		, T		-		000022	
	-	13° m 31'52		Ü	11853 Aug 01 15:32	0° m₀	
	11852 Aug 16 09:45	13° Mp 31′52 0° <u>₽</u>			11853 Aug 01 15:32 11853 Aug 16 04:00	0° My 22° Mo 59'12	18°30'46
evening max el	-	13° № 31'52 0° <u>Ω</u> 10° <u>Ω</u> 46'45	19°14'04	evening max el retrograde	11853 Aug 01 15:32 11853 Aug 16 04:00 11853 Aug 23 23:36	0° My 22° My 59'12 26° My 55'03	18°30'46

evening set	11853 Aug 26 00:19	26° Mp 39'58		evening max el	11854 Jul 30 14:05	5° Mp 47'18	18°08'00
desc. node	11853 Sep 01 05:56	23° My 20'40	0020157	retrograde	11854 Aug 06 11:45	9° Mp 18'20	
inferior conj	11853 Sep 02 19:07	22° Mp 09'36	-0°28'42	evening set	11854 Aug 08 19:48	8° Mp 54'35	0°58'56
minimum elong	11853 Sep 02 18:00	22° Mp 11'49		inferior conj	11854 Aug 15 20:03	4° Mp 03'31	
min. Earth dist.	11853 Sep 06 01:33	19° m 37'48	0.57731 AU	minimum elong	11854 Aug 15 21:50	3° Mp 59'28	0°57'52
morning rise	11853 Sep 10 08:12	16° Mp 54'56		min. Earth dist.	11854 Aug 19 02:45	1° Mp 05'57	0.59927 AU
direct	11853 Sep 16 08:35	15° Mp 23'09	26957142	desc. node	11854 Aug 19 03:20	1° Mp 04'41	
morning max el	11853 Sep 30 16:13	22° Mp 57'11 0° <u>₽</u>	26°57'43	marning rise	11854 Aug 20 10:34	30°R Ω	
1	11853 Oct 06 23:32	0° 11 2		morning rise	11854 Aug 22 20:46 11854 Aug 29 08:25	28° Ω 17'18	
asc. node	11853 Oct 25 20:56	0°11L3/44		direct	11854 Aug 29 08:25 11854 Sep 07 20:29	26° Ω 17'20 0° m	
morning set	11853 Oct 25 13:17 11853 Oct 30 15:19	10°M25'46		marning may al	1	0 ily 4° Mo 09′29	27°46'40
morning set	11833 Oct 30 13.19	10 11623 46		morning max el	11854 Sep 12 16:20	4 110929	27 40 40
aumorior coni	11052 Nov. 06, 12:27	25°M33'40	1°31'36	asc. node	11854 Oct 01 18:26	0 == 20° £ 20'44	
superior conj	11853 Nov 06 12:37 11853 Nov 06 11:05	25°M25'03	1°32'06		11854 Oct 12 17:41	20 ≥ 20 44 24° ♀ 45'50	
minimum elong max. Earth dist.		25°M58'08	1.31404 AU	morning set	11854 Oct 14 21:03	0°M	
max. Earth dist.	11853 Nov 06 17:01 11853 Nov 08 12:28	25°1165808 0° ₹	1.31404 AU	may Earth dist	11854 Oct 17 08:06 11854 Oct 21 01:52	0°11∟ 8°11∟12′07	1 21202 AII
				max. Earth dist.	11834 Oct 21 01.32	8 1161207	1.31392 AU
evening rise	11853 Nov 13 08:13	10°♂30'39 0°♂			11054 0-4 22 00-02	100 M 15120	1010127
4 4-	11853 Nov 23 06:55	· <u> </u>		superior conj	11854 Oct 22 00:03	10°M 15'20	1°19'37
desc. node	11853 Nov 28 03:05	8°る10'30 28°る21'50	26957122	minimum elong	11854 Oct 21 21:56 11854 Oct 28 17:04	10°M03'34	1°19'48
evening max el	11853 Dec 13 19:12		26°57'32	evening rise		25°M02'58	
	11853 Dec 15 14:58	0°≈ 502 - 2115 4		1 1	11854 Oct 31 01:11	0° ⊼ ¹	
retrograde	11853 Dec 27 17:31	5°≈31'54		desc. node	11854 Nov 15 00:17	26° ∡ 741'14	
evening set min. Earth dist.	11854 Jan 03 12:48	3°≈33'18	0.50000 ATT		11854 Nov 17 08:41	0°る 9°る36'29	25952114
min. Earth dist.	11854 Jan 07 09:33	0°≈53'38	0.59999 AU	evening max el	11854 Nov 25 15:43		25*52*14
	11854 Jan 08 12:22	30°Rる	2022/20	retrograde	11854 Dec 09 13:19	16°る38'16	
inferior conj	11854 Jan 10 13:39	28°る18'39		evening set	11854 Dec 15 18:42	15° る 07'29	0.57005 ATT
minimum elong	11854 Jan 10 20:55	28°る03'48 23°る34'28	3°29'06	min. Earth dist.	11854 Dec 20 04:18	12°る31'22 10°る22'51	0.57905 AU
morning rise	11854 Jan 18 07:50	23°る3428 23°る17'43		inferior conj	11854 Dec 23 05:03		
direct	11854 Jan 20 10:07			minimum elong	11854 Dec 23 13:23	10°る08'05	4°43'42
asc. node	11854 Jan 21 20:28	23°る25'50 27°る01'28	10005125	morning rise	11854 Dec 31 10:39	6°る01'15 5°る46'22	
morning max el	11854 Jan 27 21:55 11854 Jan 30 13:13	2/°00128 0°≈	18°05'35	direct asc. node	11855 Jan 02 14:37 11855 Jan 08 17:39	7° る 54'09	
marning gat	11854 Feb 12 12:42	0 ≈ 21°≈44'14			11855 Jan 11 04:12	9° る 56'36	18°43'35
morning set	11854 Feb 12 12.42 11854 Feb 16 23:19	21 ≈ 44 14 0° ∀		morning max el	11855 Jan 24 06:48	9°≈	16 43 33
	11834 Feb 10 23.19	υ χ		morning set	11855 Jan 27 09:01	0 ≈ 5°≈57'44	
superior conj	11854 Feb 22 08:50	9° ¥ 48'05	0°13'48	morning set	11633 Jan 27 09.01	J ≈ 3/44	
minimum elong	11854 Feb 22 09:56	9° H 53'01	0°13'59	superior conj	11855 Feb 05 01:44	22° ≈ 44'38	0°45'37
behind sun begin	11854 Feb 22 06:10	9° X 3501	0 13 39	minimum elong	11855 Feb 05 04:26	22 ≈44 38 22°≈57'21	0°45'44
behind sun end	11854 Feb 22 13:42	10° H 09'46		minimum clong	11855 Feb 08 24:00	0° \	0 43 44
desc. node	11854 Feb 24 03:20	12°\(\)56'03		desc. node	11855 Feb 11 00:00	3° \ 35'31	
max. Earth dist.	11854 Mar 01 23:52	22° H 58'41	1 41060 411	desc. Hode		J /(JJ J1	
max. Latur dist.				may Earth dist		5°¥55'06	1 30700 ATT
evening rise			1.41869 AU	max. Earth dist.	11855 Feb 12 07:37	5° ¥ 55'06	1.39709 AU
	11854 Mar 06 06:14	0° Υ	1.41869 AU	max. Earth dist. evening rise	11855 Feb 12 07:37 11855 Feb 16 07:41	12°) 48′10	1.39709 AU
evening rise	11854 Mar 06 06:14 11854 Mar 07 05:02	0° Υ 1° Υ 31'56	1.41869 AU		11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11	12°) 48′10 0° °	1.39709 AU
	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57	0° Ƴ 1° Ƴ 31'56 0° ႘		evening rise	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49	12°¥48'10 0°Ƴ 0°℧	
evening max el	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44	0°Υ 1°Υ31'56 0°႘ 18°႘01'51	1.41869 AU 22°44'39	evening rise evening max el	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53	12°¥48'10 0° ° 0° ∀ 1° ∀ 51'18	
evening max el retrograde	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36	0°Y 1°Y31'56 0°8 18°8'01'51 23°857'23		evening rise evening max el retrograde	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06	12°升48'10 0° Y 0° 엉 1° 엉 51'18 8° 엉 25'22	
evening max el retrograde asc. node	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45	0°Y 1°Y31'56 0°8 18°801'51 23°857'23 23°857'22		evening rise evening max el retrograde asc. node	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06	12°\;\;48'10 0°\;\fomation 0°\;\sigma 1°\;\sigma51'18 8°\;\sigma25'22 7°\;\sigma38'08	
evening max el retrograde asc. node evening set	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45 11854 Apr 24 13:24	0°Y 1°Y31'56 0°8 18°801'51 23°857'23 23°857'22 21°855'37	22°44'39	evening rise evening max el retrograde asc. node evening set	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06 11855 Apr 08 18:37	12°¥48'10 0°Y 0°8 1°851'18 8°825'22 7°838'08 6°810'19	24°05'17
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evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45 11854 Apr 24 13:24 11854 Apr 29 21:25 11854 Apr 29 19:28 11854 Apr 29 14:30 11854 May 05 01:26 11854 May 09 14:23 11854 May 18 11:09	0°Y 1°Y31'56 0°8 18°801'51 23°857'23 23°857'22 21°855'37 15°831'55 15°838'40 15°855'56 9°822'55 7°830'26 12°838'48	22°44'39 2°42'37 2°41'41	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06 11855 Apr 08 18:37 11855 Apr 13 10:47 11855 Apr 14 06:00 11855 Apr 14 03:49 11855 Apr 14 00:26 11855 Apr 19 13:06 11855 Apr 23 13:09	12°\delta48'10 0°\delta' 0°\delta' 1°\delta51'18 8°\delta25'22 7°\delta38'08 6°\delta10'19 0°\delta46'14 29°\delta4'106 29°\delta4'28 30°\delta' 23°\delta39'20 22°\delta8'21	24°05'17 0.68478 AU 2°11'52 2°10'55
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evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45 11854 Apr 29 11:25 11854 Apr 29 19:28 11854 Apr 29 14:30 11854 May 05 01:26 11854 May 09 14:23 11854 May 18 11:09 11854 May 23 04:51 11854 Jun 01 05:04 11854 Jun 01 05:04 11854 Jun 21 00:59 11854 Jun 25 18:03	0°Y 1°Y31'56 0°℧ 18°℧01'51 23°℧57'23 23°℧57'22 21°℧55'37 15°℧38'40 15°℧55'56 9°℧22'55 7°℧30'26 12°℧38'48 17°℧57'46 0°Ⅲ 27°Ⅲ11'16 0°郖 7°郖38'44	22°44'39 2°42'37 2°41'41 0.68773 AU 21°31'31 1.42197 AU -1°43'57	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06 11855 Apr 08 18:37 11855 Apr 13 10:47 11855 Apr 14 06:00 11855 Apr 14 03:49 11855 Apr 14 00:26 11855 Apr 19 13:06 11855 Apr 23 13:09 11855 May 01 07:59 11855 May 01 07:59 11855 May 04 12:11 11855 May 04 12:11 11855 May 25 14:56 11855 May 29 10:42 11855 Jun 08 03:16 11855 Jun 13 15:30	12° \(\) 48'10 0° \(\) 0° \(\) 0° \(\) 1° \(\) 551'18 8° \(\) 225'22 7° \(\) 38'08 6° \(\) 10'19 0° \(\) 46'14 29° \(\) 48'28 30° \(\) \(\) 739'20 22° \(\) 708'21 26° \(\) 731'38 0° \(\) 7° \(\) 10'32 0° \(\) 1 5° \(\) 151'49 21° \(\) 104'31 0° \(\)	24°05'17 0.68478 AU 2°11'52 2°10'55 20°15'20 1.43999 AU
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45 11854 Apr 24 13:24 11854 Apr 29 21:25 11854 Apr 29 19:28 11854 Apr 29 14:30 11854 May 05 01:26 11854 May 09 14:23 11854 May 18 11:09 11854 May 23 04:51 11854 Jun 01 05:04 11854 Jun 19 06:35 11854 Jun 21 00:59 11854 Jun 25 18:03	0°Y 1°Y31'56 0°℧ 18°℧01'51 23°℧57'23 23°℧57'22 21°℧55'37 15°℧31'55 15°℧38'40 15°℧55'56 9°℧22'55 7°℧30'26 12°℧38'48 17°℧57'46 0°Ⅲ 27°Ⅲ11'16 0°郖 7°郖38'44 20°郖18'02 20°郖47'19 0°Ω	22°44'39 2°42'37 2°41'41 0.68773 AU 21°31'31 1.42197 AU -1°43'57	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06 11855 Apr 08 18:37 11855 Apr 13 10:47 11855 Apr 14 06:00 11855 Apr 14 03:49 11855 Apr 14 00:26 11855 Apr 19 13:06 11855 Apr 23 13:09 11855 May 01 07:59 11855 May 01 07:59 11855 May 04 12:11 11855 May 04 12:11 11855 May 29 10:42 11855 Jun 08 03:16 11855 Jun 13 15:30	12° \(\) 48'10 0° \(\) 0° \(\) 0° \(\) 1° \(\) 551'18 8° \(\) 225'22 7° \(\) 38'08 6° \(\) 10'19 0° \(\) 46'14 29° \(\) 44'28 30° \(\) \(\) 739'20 22° \(\) 708'21 26° \(\) 731'38 0° \(\) 7° \(\) 10'32 0° \(\) 1 5° \(\) 151'49 21° \(\) 104'31 0° \(\) 0° \(\) 32	24°05'17 0.68478 AU 2°11'52 2°10'55 20°15'20 1.43999 AU -2°06'20
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45 11854 Apr 24 13:24 11854 Apr 29 21:25 11854 Apr 29 19:28 11854 Apr 29 14:30 11854 May 05 01:26 11854 May 05 14:23 11854 May 18 11:09 11854 May 23 04:51 11854 Jun 01 05:04 11854 Jun 19 06:35 11854 Jun 21 00:59 11854 Jun 25 18:03 11854 Jul 03 05:57 11854 Jul 03 12:43 11854 Jul 08 18:08 11854 Jul 08 18:08	0°Y 1°Y31'56 0°℧ 18°℧01'51 23°℧57'23 23°℧57'22 21°℧55'37 15°℧31'55 15°℧38'40 15°℧55'56 9°℧22'55 7°℧30'26 12°℧38'48 17°℧57'46 0°Ⅲ 27°Ⅲ11'16 0°郖 7°郅38'44 20°郖18'02 20°郖47'19 0°Ω 10°Ω10'55	22°44'39 2°42'37 2°41'41 0.68773 AU 21°31'31 1.42197 AU -1°43'57	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06 11855 Apr 08 18:37 11855 Apr 13 10:47 11855 Apr 14 06:00 11855 Apr 14 03:49 11855 Apr 14 00:26 11855 Apr 19 13:06 11855 Apr 23 13:09 11855 Apr 23 13:09 11855 May 01 07:59 11855 May 01 07:59 11855 May 04 12:11 11855 May 05 14:56 11855 May 29 10:42 11855 Jun 08 03:16 11855 Jun 13 15:30 11855 Jun 14 02:11 11855 Jun 14 07:21	12° \(\) 48'10 0° \(\) 0° \(\) 0° \(\) 1° \(\) 51'18 8° \(\) 25'22 7° \(\) 38'08 6° \(\) 10'19 0° \(\) 46'14 29° \(\) 44'28 30° \(\) \(\) 73'20 22° \(\) 08'21 26° \(\) 31'38 0° \(\) 7° \(\) 10'32 0° \(\) 10'32 0° \(\) 10'32 0° \(\) 10'32 0° \(\) 10'32 0° \(\) 10'33 0° \(\) 10'35 1° \(\) 10'35	24°05'17 0.68478 AU 2°11'52 2°10'55 20°15'20 1.43999 AU -2°06'20
evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	11854 Mar 06 06:14 11854 Mar 07 05:02 11854 Mar 26 03:57 11854 Apr 09 15:44 11854 Apr 19 16:36 11854 Apr 19 17:45 11854 Apr 24 13:24 11854 Apr 29 21:25 11854 Apr 29 19:28 11854 Apr 29 14:30 11854 May 05 01:26 11854 May 09 14:23 11854 May 18 11:09 11854 May 23 04:51 11854 Jun 01 05:04 11854 Jun 19 06:35 11854 Jun 21 00:59 11854 Jun 25 18:03	0°Y 1°Y31'56 0°℧ 18°℧01'51 23°℧57'23 23°℧57'22 21°℧55'37 15°℧31'55 15°℧38'40 15°℧55'56 9°℧22'55 7°℧30'26 12°℧38'48 17°℧57'46 0°Ⅲ 27°Ⅲ11'16 0°郖 7°郖38'44 20°郖18'02 20°郖47'19 0°Ω	22°44'39 2°42'37 2°41'41 0.68773 AU 21°31'31 1.42197 AU -1°43'57	evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	11855 Feb 12 07:37 11855 Feb 16 07:41 11855 Feb 27 01:11 11855 Mar 21 10:49 11855 Mar 23 05:53 11855 Apr 03 10:06 11855 Apr 06 15:06 11855 Apr 08 18:37 11855 Apr 13 10:47 11855 Apr 14 06:00 11855 Apr 14 03:49 11855 Apr 14 00:26 11855 Apr 19 13:06 11855 Apr 23 13:09 11855 May 01 07:59 11855 May 01 07:59 11855 May 04 12:11 11855 May 04 12:11 11855 May 29 10:42 11855 Jun 08 03:16 11855 Jun 13 15:30	12° \(\) 48'10 0° \(\) 0° \(\) 0° \(\) 1° \(\) 551'18 8° \(\) 225'22 7° \(\) 38'08 6° \(\) 10'19 0° \(\) 46'14 29° \(\) 44'28 30° \(\) \(\) 739'20 22° \(\) 708'21 26° \(\) 731'38 0° \(\) 7° \(\) 10'32 0° \(\) 1 5° \(\) 151'49 21° \(\) 104'31 0° \(\) 0° \(\) 32	24°05'17 0.68478 AU 2°11'52 2°10'55 20°15'20 1.43999 AU -2°06'20

asc. node	11855 Jul 03 13:24	3° Ω 52'36		evening max el	11856 Jun 26 17:25	2° Ω 30'35	18°19'35
evening max el	11855 Jul 14 03:40	19° Ω 00′25	18°04'35	retrograde	11856 Jul 03 02:41	5° Ω 54'55	
retrograde	11855 Jul 20 14:15	22° Ω 21'13		evening set	11856 Jul 06 02:59	5° Ω 05'11	
evening set	11855 Jul 23 06:20	21° Ω 45'38			11856 Jul 11 16:34	30° ₹ 🥯	
inferior conj	11855 Jul 29 15:04	16° Ω 35'47	2°02'31	inferior conj	11856 Jul 12 00:03	29° © 38'23	2°43'57
minimum elong	11855 Jul 29 17:43	16° Ω 28'54	2°01'09	minimum elong	11856 Jul 12 02:18	29° 5 31'52	2°42'46
min. Earth dist.	11855 Aug 01 13:09	13° Ω 34'50	0.62199 AU	min. Earth dist.	11856 Jul 14 08:54	26° © 54'27	0.64309 AU
morning rise	11855 Aug 05 02:52	10° £ 28′33		morning rise	11856 Jul 18 00:16	23° 5 20'07	
desc. node	11855 Aug 06 00:41	9° Ω 52′00		desc. node	11856 Jul 22 21:58	20° © 51'45	
direct	11855 Aug 11 19:16	8° Ω 04'45		direct	11856 Jul 24 15:13	20°5541'33	
morning max el	11855 Aug 25 22:39	16° Ω 06'54	27°56'52	morning max el	11856 Aug 07 08:26	28° 5 42'06	27°30'30
	11855 Sep 06 08:38	0° m y			11856 Aug 08 14:32	$0 {\circ} \Omega$	
	11855 Sep 24 10:34	0∘ ⊽			11856 Aug 30 04:59	0° m)	
morning set	11855 Sep 28 20:55	8° ≏ 46'14		morning set	11856 Sep 11 12:28	22° m 20'29	
asc. node	11855 Sep 29 14:23	10° ≙ 15'49		asc. node	11856 Sep 15 11:05	0° ≏ 18'18	
max. Earth dist.	11855 Oct 04 07:10	20° ₽ 12'59	1.31887 AU		11856 Sep 15 07:32	0∘ ত	
				max. Earth dist.	11856 Sep 16 05:07	1° ≙ 51'53	1.32901 AU
superior conj	11855 Oct 06 09:25	24° ≏ 47'08	1°02'12				
minimum elong	11855 Oct 06 07:11	24° ₽ 34'53	1°02'05	superior conj	11856 Sep 19 14:44	9° ഫ 03'28	0°39'32
	11855 Oct 08 18:15	0° M .		minimum elong	11856 Sep 19 12:57	8° £ 53'56	0°39'14
evening rise	11855 Oct 13 04:02	9° M 38′24		evening rise	11856 Sep 26 15:14	24° £ 11'54	
	11855 Oct 23 11:43	0° ∡ ¹			11856 Sep 29 09:33	0° M .	
desc. node	11855 Nov 01 21:33	14° ∡ 11'13			11856 Oct 18 11:33	0°⊀	
evening max el	11855 Nov 07 04:23	20° ∡ 03'36	24°21'17	evening max el	11856 Oct 18 14:59	0° ∡ 08'23	22°40'05
retrograde	11855 Nov 20 21:18	26° ₹ 54'51		desc. node	11856 Oct 18 18:52	0° ∡ 17'48	
evening set	11855 Nov 26 00:43	25° ₹ 156'30		retrograde	11856 Oct 31 16:32	6° ∡ ³37'55	
min. Earth dist.	11855 Dec 01 15:37	23° ∡ ¹05'11	0.56105 AU	evening set	11856 Nov 04 09:31	6° ₰ 07'54	
inferior conj	11855 Dec 03 23:51	21° ∡ ³37'59	-5°39'15	min. Earth dist.	11856 Nov 11 23:07	2° х¹ 43′16	0.54913 AU
minimum elong	11855 Dec 04 04:53	21° ∡ ³30′09	5°37'56	inferior conj	11856 Nov 13 00:29	2° ҂ 107′13	-5°47'59
morning rise	11855 Dec 12 11:08	17° ∡ ³37′20		minimum elong	11856 Nov 12 21:26	2° ҂ 11'33	5°47'08
direct	11855 Dec 14 23:31	17° ∡ °20'36		-	11856 Nov 16 22:44	30°RM₁	
morning max el	11855 Dec 24 23:12	22° ∡ ¹06'51	19°43'58	morning rise	11856 Nov 21 10:50	28°MJ19'05	
asc. node	11855 Dec 26 14:45	23° х 49'11		direct	11856 Nov 24 15:16	27°M55'49	
	11855 Dec 31 07:37	0°రె			11856 Dec 01 17:37	0° ∡ ¹	
morning set	11856 Jan 11 12:55	20° ප 30'17		morning max el	11856 Dec 06 04:13	3° ҂ ¹24'33	21°06'59
-	11856 Jan 16 05:17	0° ≈		asc. node	11856 Dec 12 11:48	10° ∡ ¹54'35	
					11856 Dec 23 08:29	6°0	
superior conj	11856 Jan 19 09:56	6° ≈ 23'20	1°09'47	morning set	11856 Dec 25 21:31	5° ರ 13'14	
minimum elong	11856 Jan 19 12:48	6° ≈ 37'32	1°10'06				
max. Earth dist.	11856 Jan 25 13:40	18° ≈ 12'06	1.37481 AU	superior conj	11857 Jan 02 05:10	20° る 31'29	1°26'24
desc. node	11856 Jan 28 20:44	24° ≈ 12'12		minimum elong	11857 Jan 02 07:21	20° ප් 42'47	1°26'58
evening rise	11856 Jan 29 07:03	24° ≈ 58′07			11857 Jan 06 21:42	0° ≈	
	11856 Feb 01 04:07	0° ∀		max. Earth dist.	11857 Jan 06 23:09	0° ≈ 07'10	1.35427 AU
	11856 Feb 20 16:08	$0^{\circ}\mathbf{\Upsilon}$		evening rise	11857 Jan 11 00:01	7° ≈ 52'35	
evening max el	11856 Mar 04 19:15	15° Ƴ 42'39	25°21'34	desc. node	11857 Jan 14 17:31	14° ≈ 41'30	
retrograde	11856 Mar 16 23:27	22° Y '45'23			11857 Jan 23 20:31	0° ∀	
evening set	11856 Mar 22 19:43	20° Y 20′02		evening max el	11857 Feb 15 08:53	29°) 30′36	26°26'18
asc. node	11856 Mar 23 12:26	19° Ƴ 42'42			11857 Feb 15 21:09	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	11856 Mar 27 04:38	15° Ƴ 31′03	0.67752 AU	retrograde	11857 Feb 28 07:31	6° Ƴ 49'34	
inferior conj	11856 Mar 28 11:54	13° Y 49'50	1°31'22	evening set	11857 Mar 06 14:54	4° Υ 18'00	
minimum elong	11856 Mar 28 10:00	13° Ƴ 56′01	1°30'36	asc. node	11857 Mar 10 09:46	0° Ƴ 27'11	
morning rise	11856 Apr 03 00:41	7° Ƴ 56'33		min. Earth dist.	11857 Mar 10 17:47	0° Υ 03'33	0.66621 AU
direct	11856 Apr 06 12:47	6° Ƴ 46′00			11857 Mar 10 18:58	30° ₹ ₩	
morning max el	11856 Apr 13 12:31	10° Ƴ 35'43	19°13'23	inferior conj	11857 Mar 12 13:04	27°) 52′32	0°40'55
desc. node	11856 Apr 25 22:23	26° Ƴ 53′26		minimum elong	11857 Mar 12 12:02	27°) 55'41	0°40'38
greatest brilliancy	11856 Apr 26 10:17	27° Y 37'46	-0.7m	morning rise	11857 Mar 18 10:05	22°) €09'34	
	11856 Apr 28 00:14	$_{0\circ}$ 8		direct	11857 Mar 21 11:28	21° 升 16′58	
morning set	11856 May 07 12:36	14° 8 33'11		morning max el	11857 Mar 27 23:48	24°) 45′40	18°27'31
	11856 May 17 11:26	Π°			11857 Apr 01 11:06	0° Υ	
max. Earth dist.	11856 May 20 18:11	5° Ⅱ 08'35	1.45220 AU	desc. node	11857 Apr 12 19:02	16° Ƴ 57'40	
				morning set	11857 Apr 17 10:00	24° Υ 16'00	
superior conj	11856 May 23 23:32	10° Ⅱ 13'41	-2°13'10		11857 Apr 21 01:05	8°	
minimum elong	11856 May 23 22:26	10° Ⅱ 09'19	2°13'52		-		
-	11856 Jun 05 05:53	0ංම		superior conj	11857 May 03 07:15	19° 8 13'41	-1°59'52
evening rise	11856 Jun 07 12:00	3°542'22		minimum elong	11857 May 02 23:16	18° 8 42'32	1°59'55
asc. node	11856 Jun 19 10:22	23°500'50		max. Earth dist.	11857 May 03 13:05	19° 8 36'28	1.45735 AU
	11856 Jun 24 11:10	$0^{\circ}\Omega$			11857 May 10 04:36	Π°	
					-		

	11057.W 10 02 00	120 T 50U 6			11050 4 20 20 20	220	
evening rise	11857 May 19 02:08	13° Ⅱ 59'16	0.0	evening rise	11858 Apr 28 20:30	23° 8 32'28	
greatest brilliancy	11857 May 28 08:29	28° Ⅱ 33'50	-0.8m		11858 May 03 01:33	0°II	0.6
_	11857 May 29 06:45	0.20		greatest brilliancy	11858 May 12 18:32	14° ∏ 38′24	-0.6m
asc. node	11857 Jun 06 07:24	11° © 39'19		asc. node	11858 May 24 04:31	29° ∏ 38'14	
evening max el	11857 Jun 10 04:33	16° © 10'29	18°52'14	evening max el	11858 May 24 11:00	29° ∏ 54'42	19°41'18
retrograde	11857 Jun 16 21:18	19° © 51'35			11858 May 24 13:06	0 \circ	
evening set	11857 Jun 20 06:08	18° © 46'13		retrograde	11858 May 31 19:15	4°904'44	
inferior conj	11857 Jun 25 19:14	13° © 03'55	3°07'04	evening set	11858 Jun 04 13:06	2° 5 43'08	
minimum elong	11857 Jun 25 20:30	12° © 59'55	3°06'08		11858 Jun 07 08:46	30° Ŗ Ⅱ	
min. Earth dist.	11857 Jun 27 13:15	10° © 52'01	0.66083 AU	inferior conj	11858 Jun 09 21:28	26° Ⅱ 46'39	3°15'15
morning rise	11857 Jul 01 10:10	6° © 41'47		minimum elong	11858 Jun 09 21:38	26° Ⅱ 46'07	3°14'27
direct	11857 Jul 07 18:24	3° © 59'20		min. Earth dist.	11858 Jun 11 00:44	25° Ⅱ 15'43	0.67430 AU
desc. node	11857 Jul 09 19:10	4° © 13'57		morning rise	11858 Jun 15 05:48	20° Ⅲ 25′10	
morning max el	11857 Jul 20 19:13	11° © 44'12	26°34'22	direct	11858 Jun 21 03:44	17° Ⅱ 48'42	
	11857 Aug 04 09:13	$0^{\circ}\Omega$		desc. node	11858 Jun 26 16:17	19° Ⅱ 36'38	
	11857 Aug 22 19:24	o° mp		morning max el	11858 Jul 03 05:34	25° Ⅱ 02'58	25°17'23
morning set	11857 Aug 25 16:34	5° m 20'45			11858 Jul 07 17:11	0 \circ \odot	
max. Earth dist.	11857 Aug 29 17:16	13° Mp 08'12	1.34430 AU		11858 Jul 28 20:38	$0^{\circ}\Omega$	
asc. node	11857 Sep 02 07:46	20° m 24'09		morning set	11858 Aug 08 05:13	17° Ω 36'44	
	•			max. Earth dist.	11858 Aug 11 19:59	24° Ω 14'04	1.36409 AU
superior conj	11857 Sep 03 13:39	22° m 58'07	0°12'02		11858 Aug 14 20:55	0° m	
minimum elong	11857 Sep 03 13:00	22° m 54'48	0°11'43		· ·	•	
behind sun begin	11857 Sep 03 08:59	22° m/33'56		superior conj	11858 Aug 18 03:16	6° m 23'10	-0°19'31
behind sun end	11857 Sep 03 17:02	23° m) 15'41		minimum elong	11858 Aug 18 04:30	6° m) 29'20	0°19'39
	11857 Sep 06 22:18	0∘ ⊽		asc. node	11858 Aug 20 04:28	10° m) 29'09	, .,
evening rise	11857 Sep 11 00:45	ა <u>ი</u> 38'19		evening rise	11858 Aug 26 06:25	22° m 51'15	
evening rise	11857 Sep 22 07:40	0°M		evening rise	11858 Aug 29 20:08	0° <u>ت</u>	
evening max el	11857 Sep 30 08:47	10°M27'26	21°05'33	evening max el	11858 Sep 12 15:47		19°48'33
desc. node	11857 Oct 05 16:14	14°MJ33'07	21 03 33	retrograde	11858 Sep 22 19:14	26° £ 29'33	19 40 33
	11857 Oct 12 03:48	16°M18'49		desc. node	11858 Sep 22 13:38	26° ⊆ 29'24	
retrograde		16°M04'28				26° £ 29'24 26° £ 19'46	
evening set	11857 Oct 14 15:07		4050122	evening set	11858 Sep 24 16:40		2021120
inferior conj	11857 Oct 23 16:23	12°M09'57		inferior conj	11858 Oct 03 13:51	22° £ 17'55	
minimum elong	11857 Oct 23 06:52	12°M23'21	4°55'44	minimum elong	11858 Oct 03 05:11	22° £ 31'16	
min. Earth dist.	11857 Oct 24 05:57	11°M50'47	0.54572 AU	min. Earth dist.	11858 Oct 05 15:06	21° Ω 02'09	0.55175 AU
morning rise	11857 Oct 31 23:04	8°M17'53		morning rise	11858 Oct 11 16:07	18° ഫ 01'08	
direct	11857 Nov 04 23:27	7°M43'16		direct	11858 Oct 16 12:21	17° ≏ 09'38	
morning max el	11857 Nov 17 20:42	13°M54'39	22°48'27	morning max el	11858 Oct 30 07:25	23° ≏ 59'18	24°36'39
asc. node	11857 Nov 29 08:45	28°M54'36			11858 Nov 04 18:46	0° M	
	11857 Nov 30 00:26	0° ∡ ¹		asc. node	11858 Nov 16 05:39	17° ™ 35'06	
morning set	11857 Dec 10 08:42	20° ∡ 00'45			11858 Nov 22 14:16	0° ∡ ¹	
	11857 Dec 15 00:19	0°ಕ		morning set	11858 Nov 24 20:34	4° ∡ ¹46′28	
superior conj	11857 Dec 17 08:10	4° る 59'59	1°35'57	superior conj	11858 Dec 01 16:11	19° ⊀ 40′02	1°39'00
minimum elong	11857 Dec 17 09:17	5° る 05'58	1°36'42	minimum elong	11858 Dec 01 16:09	19° ⋌ 39'52	1°39'46
max. Earth dist.	11857 Dec 20 16:05	12° る 01'39	1.33716 AU	max. Earth dist.	11858 Dec 03 16:41	24° ₹ 04'15	1.32434 AU
evening rise	11857 Dec 25 07:02	21° る 22'35			11858 Dec 06 11:14	8°0	
	11857 Dec 29 19:56	0° ≈		evening rise	11858 Dec 09 00:38	5° る 18'30	
desc. node	11858 Jan 01 14:24	4° ≈ 59'03		desc. node	11858 Dec 19 11:22	24° る 58'20	
	11858 Jan 17 17:00	0° ∀			11858 Dec 22 11:20	0° ≈	
evening max el	11858 Jan 28 22:27	13°) €06'13	27°11'57	evening max el	11859 Jan 11 10:14	26° ≈ 16'47	27°31'44
retrograde	11858 Feb 11 09:24	20° ∺ 30′29			11859 Jan 15 20:20	0° ∀	
evening set	11858 Feb 18 02:10	17° ¥ 58′02		retrograde	11859 Jan 25 04:28	3° ¥ 39′12	
min. Earth dist.	11858 Feb 22 00:02	14°) (16′43	0.65121 AU	evening set	11859 Feb 01 03:05	1° 升 12′50	
inferior conj	11858 Feb 24 07:10	11° ∺ 43'49	-0°19'34		11859 Feb 02 17:00	30° R ≈	
minimum elong	11858 Feb 24 07:44	11°) 42′15	0°19'01	min. Earth dist.	11859 Feb 04 21:22	28° ≈ 01'28	0.63291 AU
asc. node	11858 Feb 25 07:07	10°) 37′59		inferior conj	11859 Feb 07 15:26	25° ≈ 16'46	-1°29'33
morning rise	11858 Mar 02 14:53	6° ℋ 13'37		minimum elong	11859 Feb 07 18:22	25° ≈ 09'27	1°27'50
direct	11858 Mar 05 07:02	5°) 35'45		asc. node	11859 Feb 12 04:26	21° ≈ 16′30	
morning max el	11858 Mar 11 15:44	8° ¥ 55'15	17°58'31	morning rise	11859 Feb 14 11:56	20° ≈ 02'16	
-	11858 Mar 26 05:26	0° Y		direct	11859 Feb 16 20:34	19° ≈ 35'33	
morning set	11858 Mar 29 12:09	5° Y ′24′05		morning max el	11859 Feb 23 09:28	22° ≈ 56'41	17°46'51
desc. node	11858 Mar 30 15:39	7° Ƴ 17'16		-	11859 Feb 28 23:30	0°) €	
		. •		morning set	11859 Mar 11 16:31	17°) 47'36	
superior conj	11858 Apr 12 18:43	28° Y '30'15	-1°28'47	desc. node	11859 Mar 17 12:17	27°) (47'34	
minimum elong	11858 Apr 12 09:46	27° Y ′54'48			11859 Mar 18 19:34	0°Υ	
	11858 Apr 13 17:24	0°8	- -		10 17.01	•	
max. Earth dist.	11858 Apr 16 09:21		1.45498 AU	superior conj	11859 Mar 24 01:23	8° Y 43'58	-0°48'27
	-1000 / ipi 10 07.21	. 0114/	1 1/0 /10	superior conj	1100 / Iviai 27 01.23	0 1 15 50	0 .02/

minimum elong	11859 Mar 23 20:22	8° Y ′23'22		behind sun begin	11860 Mar 04 00:34	19°) 32′03	
max. Earth dist.	11859 Mar 30 03:50	18° Ƴ 36'19 0° ႘	1.44539 AU	behind sun end	11860 Mar 04 15:29 11860 Mar 10 04:53	20° ¥ 36'31 0° Ƴ	
evening rise	11859 Apr 06 10:05 11859 Apr 08 07:52	2° 8 56'29		max. Earth dist.	11860 Mar 10 04:53	0° γ 2° Υ 33'48	1.42971 AU
e vening rise	11859 Apr 26 14:05	0°II		evening rise	11860 Mar 18 03:38	12° Υ 49'02	1.12)/1110
evening max el	11859 May 07 11:43	13° Ⅱ 40′10	20°44'43	<i>3</i>	11860 Mar 29 10:37	0°8	
asc. node	11859 May 11 01:43	16° Ⅱ 45′02		evening max el	11860 Apr 19 07:03	27° 8 26'17	21°59'00
retrograde	11859 May 15 18:10	18° Ⅲ 28'46			11860 Apr 22 02:21	$\Pi^{\circ}0$	
evening set	11859 May 19 21:45	16° Ⅱ 51'02		asc. node	11860 Apr 26 22:58	2° Ⅱ 43'57	
inferior conj	11859 May 25 04:12	10° Ⅱ 42'07	3°11'00	retrograde	11860 Apr 28 16:08	2°II57'58	
minimum elong min. Earth dist.	11859 May 25 03:20 11859 May 25 17:34	10° Ⅱ 45'03 9° Ⅱ 55'53	3°10'12 0.68314 AU	evening set	11860 May 03 06:19 11860 May 04 10:05	1°Ⅲ04'48 30°R ႘	
morning rise	11859 May 30 08:42	9 Π 33 33 4° Π 23'59	0.08314 AU	inferior conj	11860 May 04 10:03	24° 8 45'37	2°55'53
direct	11859 Jun 04 18:16	2° Д 01'01		minimum elong	11860 May 08 11:33	24° 8 51'18	2°55'01
desc. node	11859 Jun 13 13:19	6° Ⅲ 31'24		min. Earth dist.	11860 May 08 13:31	24° 8 44'23	0.68735 AU
morning max el	11859 Jun 15 15:34	8° Ⅲ 31′24	23°49'29	morning rise	11860 May 13 16:35	18° 8 32'41	
	11859 Jul 02 12:04	0ං ම		direct	11860 May 18 13:04	16° 8 28'10	
morning set	11859 Jul 20 21:46	28° © 57'28		morning max el	11860 May 28 03:13	22° 8 06'48	22°20'07
	11859 Jul 21 12:25	0°€		desc. node	11860 May 30 10:16	24° 8 33'14	
max. Earth dist.	11859 Jul 24 17:36	5° Ω 35'36	1.38670 AU		11860 Jun 03 23:00	0° Ⅱ	
superior conj	11859 Aug 01 04:04	19° Ω 10'40	0052122	morning set	11860 Jun 24 19:04 11860 Jun 30 13:32	0°© 9°©10'36	
minimum elong	11859 Aug 01 04:04 11859 Aug 01 07:47	19° Ω 28'10	0°53'19	max. Earth dist.	11860 Jul	17°937'52	1.40969 AU
minimum ciong	11859 Aug 06 19:03	0° m)	0 33 17	max. Bartii dist.	11860 Jul 12 20:00	0° Ω	1.10707710
asc. node	11859 Aug 07 01:13	0° m/30'09					
evening rise	11859 Aug 10 05:34	6° Mp 44′02		superior conj	11860 Jul 13 11:43	1° Ω 10′02	-1°26'44
	11859 Aug 23 16:32	0∘ 亚		minimum elong	11860 Jul 13 17:47	1° Ω 37'07	1°26'39
evening max el	11859 Aug 26 12:11	3° ≏ 13'34	18°52'59	evening rise	11860 Jul 23 18:41	20° Ω 07'01	
retrograde	11859 Sep 04 01:52	7° £ 30'51		asc. node	11860 Jul 23 22:01	20° Ω 22'37	
evening set	11859 Sep 05 23:10	7° ₽ 19'10			11860 Jul 29 03:07	0°M)	10010140
desc. node inferior conj	11859 Sep 09 11:02 11859 Sep 14 04:56	6° ♀ 02'11 3° ♀ 00'37	-1°20'25	evening max el retrograde	11860 Aug 08 18:31 11860 Aug 16 03:28	15° Mp 42'19 19° Mp 25'39	18°18'40
minimum elong	11859 Sep 14 01:08		1°27'57	evening set	11860 Aug 18 07:04	19° Mp 07'24	
min. Earth dist.	11859 Sep 17 05:12	0° ჲ 52'29	0.56620 AU	inferior conj	11860 Aug 25 17:47	14° Mp 28'29	0°11'14
	11859 Sep 18 12:52	30°R, Mp		minimum elong	11860 Aug 25 18:11	14° m 27'40	0°10'48
morning rise	11859 Sep 21 23:51	28° My $06'46$		transit middle	11860 Aug 25 18:11	14° m 27'40	0°10'48
direct	11859 Sep 27 14:49	26° Mp 51'04		transit begin	11860 Aug 25 15:35	14° m 33'04	
	11859 Oct 06 17:00	0∘ ⊽		transit end	11860 Aug 25 20:46	14° m 22'15	
morning max el	11859 Oct 11 20:31	4° £ 12'06	26°13'38	desc. node	11860 Aug 26 08:27	13° Mp 57'48	0.59(20 AII
asc. node	11859 Oct 30 11:00 11859 Nov 03 02:30	0°ጤ 6°ጤ45'57		min. Earth dist. morning rise	11860 Aug 29 01:55 11860 Sep 02 01:47	11° Mp 42'40 8° Mp 59'03	0.58639 AU
morning set	11859 Nov 09 07:24	19°M25'44		direct	11860 Sep 02 07:47 11860 Sep 08 07:50	7° m) 14'42	
morning sec	11859 Nov 14 03:19	0° ∡ ¹		morning max el	11860 Sep 22 16:14	14° m 58'12	27°23'06
					11860 Oct 04 19:54	0∘ ত	
superior conj	11859 Nov 16 03:02	4° ∡ ¹25'15	1°35'58	asc. node	11860 Oct 19 23:17	26° ≏ 19'09	
minimum elong	11859 Nov 16 01:59	4° ∡ 19'21	1°36'36		11860 Oct 21 18:44	0° M ₊	
max. Earth dist.	11859 Nov 16 22:56	6° ₹ 15'43	1.31633 AU	morning set	11860 Oct 23 15:31	3°M54'08	
evening rise	11859 Nov 23 02:01 11859 Nov 28 06:07	19° メ 33'19 0°る		superior conj	11860 Oct 30 14:48	19° M 09'59	1°27'12
desc. node	11859 Dec 06 08:25	14° る 31'43		minimum elong	11860 Oct 30 14:48 11860 Oct 30 12:58	18°M59'45	1°27'34
dese. Hode	11859 Dec 16 20:57	0°≈		max. Earth dist.	11860 Oct 30 07:47	18°MJ30'51	1.31331 AU
evening max el	11859 Dec 24 18:01	8° ≈ 49'47	27°19'55		11860 Nov 04 12:08	0° ∡ ¹	
retrograde	11860 Jan 07 15:56	16° ≈ 05'48		evening rise	11860 Nov 06 08:45	4° ₹ 101'05	
evening set	11860 Jan 14 14:33	13° ≈ 54'18			11860 Nov 20 00:59	0°₹	
min. Earth dist.	11860 Jan 18 08:30	11° ≈ 06′06	0.61224 AU	desc. node	11860 Nov 22 05:33	3° ට 29'12	
inferior conj	11860 Jan 21 10:37	8°≈22'50		evening max el	11860 Dec 05 19:23	20°る35'23	26°33'43
minimum elong	11860 Jan 21 16:23 11860 Jan 28 21:02	8°≈10'05 3°≈27'00	2°43'55	retrograde	11860 Dec 19 18:10	27° ප් 42'31 25° ප් 55'03	
morning rise asc. node	11860 Jan 28 21:02 11860 Jan 30 01:43	3°≈27'00 3°≈11'35		evening set min. Earth dist.	11860 Dec 26 08:37 11860 Dec 30 09:17	23°る35'03 23°る18'41	0.59079 AU
direct	11860 Jan 31 00:31	3°≈07'45		inferior conj	11861 Jan 02 13:11	20°පි52'55	
morning max el	11860 Feb 07 01:42	6°≈40'42	17°53'16	minimum elong	11861 Jan 02 21:15	20° る 37'23	4°02'01
-	11860 Feb 22 02:02	0° ∀		morning rise	11861 Jan 10 12:42	16° ප 18'10	
morning set	11860 Feb 22 16:48	1° ∺ 06'56		direct	11861 Jan 12 14:48	16° පි 02'45	
desc. node	11860 Mar 03 08:56	18° ¥ 24'13		asc. node	11861 Jan 15 22:58	16°₹44'19	400
	1100075 01 00 11	2001/07:5	0007140	morning max el	11861 Jan 20 12:46	19° る 57'05	18°19'09
superior conj	11860 Mar 04 08:41	20°) (07'11 20°) (04'19		morning set	11861 Jan 27 23:46	0°≈ 15°2205'01	
minimum elong	11860 Mar 04 08:01	20 π 0419	0 0/21	morning set	11861 Feb 05 07:11	15°≈05'01	

	11861 Feb 13 05:11	0° ∺		morning set	11862 Jan 20 07:07 11862 Jan 20 13:40	29° පි 27'35 0°≈	
superior conj	11861 Feb 14 14:38	2° ∺ 33'26	0°28'11				
minimum elong	11861 Feb 14 16:38	2°) 42'33	0°28'17	superior conj	11862 Jan 28 14:33	15° ≈ 48'46	0°56'48
desc. node	11861 Feb 18 05:35	9° ∺ 03'50		minimum elong	11862 Jan 28 17:28	16°≈02'47	0°56'59
max. Earth dist.	11861 Feb 22 04:03	15° ¥ 53'53	1.40972 AU	max. Earth dist.	11862 Feb 04 10:47	28°≈32'49	1.38758 AU
evening rise	11861 Feb 26 18:06	23°) €33'44		desc. node	11862 Feb 05 02:17	29°≈42'09	
	11861 Mar 02 18:00	0° Υ			11862 Feb 05 06:17	0°) {	
	11861 Mar 23 08:58	0°8		evening rise	11862 Feb 08 05:48	5°) 13'19	
evening max el	11861 Apr 01 22:40	11° 8 15'02	23°19'03		11862 Feb 23 19:23	0°Υ 25° Ω 0 (100	24020142
retrograde	11861 Apr 12 11:33	17° 8 27'54		evening max el	11862 Mar 15 12:28	25° Y ′06′00	24°38'42
asc. node	11861 Apr 13 20:16	17° 8 19'11		. 1	11862 Mar 21 11:52	0° と 1° と 52'52	
evening set	11861 Apr 17 13:12	15° 8 20'28	2020146	retrograde	11862 Mar 27 03:16	_	
inferior conj	11861 Apr 22 22:27	8° 8 54'01 9° 8 01'14	2°30'46 2°29'50	asc. node	11862 Mar 31 17:36	0° ႘ 18'24 30°Ŗ Ƴ	
minimum elong min. Earth dist.	11861 Apr 22 20:22	9° 8 35'43	2 29 30 0.68704 AU	ovening set	11862 Apr 01 03:36	30 κ 1 29° Υ 33'10	
morning rise	11861 Apr 22 10:22 11861 Apr 28 03:27	2° 8 47'40	0.08/04 AU	evening set min. Earth dist.	11862 Apr 01 16:50 11862 Apr 06 05:49	29 Y 33 10 24° Y 24'07	0.68226 AU
direct	•	1° 8 04'08		inferior conj		23° Y '03'12	1°55'55
morning max el	11861 May 02 10:53 11861 May 10 19:49	5° 8 52'12	20°57'26	minimum elong	11862 Apr 07 06:07 11862 Apr 07 04:00	23° Y 10'17	
desc. node	11861 May 17 07:08	13° 8 24'09	20 37 20	morning rise	11862 Apr 07 04:00 11862 Apr 12 15:19	17° Υ 04'52	1 33 01
desc. node	11861 May 29 03:18	0°Ⅱ		direct	11862 Apr 16 10:17	15° Υ 42'36	
morning set	11861 Jun 10 04:05	18° Ⅱ 16'48		morning max el	11862 Apr 10 10:17 11862 Apr 23 19:50	19° Y 49'36	19°47'05
morning set	11861 Jun 17 12:56	10 п 10 40		morning max er	11862 Apr 23 19.30 11862 May 02 03:18	0° 8	19 47 03
max. Earth dist.	11861 Jun 17 21:22	0°934'16	1.43031 AU	desc. node	11862 May 04 03:55	2° 8 50'41	
max. Earth dist.	11601 Juli 1/ 21.22	0 33410	1.43031 AO	greatest brilliancy	11862 May 04 03:33	6° 8 33'27	-0.6m
superior conj	11861 Jun 24 21:49	12°©12'01	105/155	morning set	11862 May 20 04:28	26° 8 49'46	-0.0111
minimum elong	11861 Jun 25 04:27	12°540'03		morning set	11862 May 20 04:28 11862 May 22 05:50	20 O 4940 0° I I	
minimum ciong	11861 Jul 05 03:24	0°Ω	1 33 11	max. Earth dist.	11862 May 31 09:45	14° Ⅱ 20'08	1.44606 AU
evening rise	11861 Jul 06 17:29	2° Ω 49'38		max. Larm dist.	11002 Way 31 07.43	14 1120 00	1.44000 AC
asc. node	11861 Jul 10 18:51	10°Ω02'10		superior conj	11862 Jun 05 07:53	22° I 12'43	-2°11'30
evening max el	11861 Jul 23 06:35	28°Ω42'16	18°04'17	minimum elong	11862 Jun 05 10:54	22° I I24'55	
evening max er	11861 Jul 24 17:24	0° m)	10 0117	minimum crong	11862 Jun 10 02:30	0°95	2 12 12
retrograde	11861 Jul 29 22:04	2° Mp 06'45		evening rise	11862 Jun 18 21:05	14°9540'56	
evening set	11861 Aug 01 09:38	1° mp 38'12		asc. node	11862 Jun 27 15:45	29° © 23'47	
	11861 Aug 04 07:04	30°R Ω			11862 Jun 28 00:44	0°Ω	
inferior conj	11861 Aug 08 02:51	26° Ω 39'01	1°28'49	evening max el	11862 Jul 06 20:39	12° Ω 03'56	18°08'44
minimum elong	11861 Aug 08 05:13	26° Ω 33'20	1°27'33	retrograde	11862 Jul 13 05:23	15° Ω 24'25	
min. Earth dist.	11861 Aug 11 06:46	23° Ω 37'19	0.60908 AU	evening set	11862 Jul 16 01:02	14° Ω 42'53	
desc. node	11861 Aug 13 05:49	21° Ω 56'06		inferior conj	11862 Jul 22 04:19	9° Ω 25'21	2°22'35
morning rise	11861 Aug 14 22:03	20° Ω 42'52		minimum elong	11862 Jul 22 06:54	9° Ω 18'16	2°21'16
direct	11861 Aug 21 12:46	18° Ω 31'41		min. Earth dist.	11862 Jul 24 21:00	6° Ω 29'46	0.63133 AU
morning max el	11861 Sep 04 18:56	26° Ω 28'45	27°55'41	morning rise	11862 Jul 28 10:59	3° £ 12′33	
	11861 Sep 08 02:19	0° m		desc. node	11862 Jul 31 03:08	1° Ω 35′14	
	11861 Sep 28 10:24	0∘ ⊽		direct	11862 Aug 04 03:28	0° Ω 41'31	
asc. node	11861 Oct 06 20:00	16° ≏ 07'38		morning max el	11862 Aug 18 03:03	8° Ω 43'34	27°49'51
morning set	11861 Oct 07 18:57	18° ഫ 05'58			11862 Sep 03 14:22	0° m	
	11861 Oct 13 08:15	0° M			11862 Sep 20 16:24	0∘ ত	
max. Earth dist.	11861 Oct 13 15:29	0°M39'50	1.31539 AU	morning set	11862 Sep 21 15:37	1° ≏ 56'04	
				asc. node	11862 Sep 23 16:41	6° ჲ 06'24	
superior conj	11861 Oct 15 01:33		1°12'54	max. Earth dist.	11862 Sep 26 18:20	12° ≏ 33'29	1.32260 AU
minimum elong	11861 Oct 14 23:19		1°12'57				
evening rise	11861 Oct 21 18:43	18° M ₊35'17		superior conj	11862 Sep 29 09:27	18° ≏ 13'52	
	11861 Oct 27 07:06	0° ∡ ¹		minimum elong	11862 Sep 29 07:19	18° ≏ 02'21	0°53'00
desc. node	11861 Nov 09 02:45	21° ∡ ′36′12			11862 Oct 04 18:41	0° M	
	11861 Nov 16 00:44	0° ろ		evening rise	11862 Oct 06 06:01	3° ™ 10'51	
evening max el	11861 Nov 17 12:30	1° る 28'44	25°16'03		11862 Oct 20 14:04	0° ∡ ¹	
retrograde	11861 Dec 01 08:51	8°る25'58		desc. node	11862 Oct 27 00:01	8° ⋌ 33'40	
evening set	11861 Dec 07 04:36	7°る09'10	0.57000 111	evening max el	11862 Oct 29 23:15	11° 🗷 41'58	23°38'22
min. Earth dist.	11861 Dec 12 00:36		0.57082 AU	retrograde	11862 Nov 12 10:51	18° ₹ 25'24	
inferior conj	11861 Dec 14 19:54	2°る36'41		evening set	11862 Nov 17 00:26	17° х 40'01	0.55512.417
minimum elong	11861 Dec 15 03:31	2°る23'58	3-10/35	min. Earth dist.	11862 Nov 23 09:26	14° 🗷 36'49	0.55513 AU
morning rig-	11861 Dec 19 01:25	30°₹ ⋌ 7		inferior conj	11862 Nov 25 06:15	13°×730'32	
morning rise	11861 Dec 23 04:43	28° х 24'07 28° х 08'51		minimum elong	11862 Nov 25 08:13	13° х 27'36 9° х 36'58	3 46 43
direct	11861 Dec 25 11:24	28°×'08'51 0°る		morning rise direct	11862 Dec 03 17:50	9° x '36'58 9° x '17'54	
asc. node	11861 Dec 31 09:46 11862 Jan 02 20:08	0°る 1°る50'51		morning max el	11862 Dec 06 12:31 11862 Dec 17 03:41	14° × 1734	20016120
morning max el	11862 Jan 02 20:08 11862 Jan 03 14:35	2° る 33'39	19°06'26	asc. node	11862 Dec 17 03:41 11862 Dec 20 17:12	18° × 17'24	20 10 39
morning max ci	11002 Jan 03 14.33	<u>د</u> دور ت ک	17 00 20	asc. nouc	11002 DCC 20 17.12	10 🗡 1/24	

	11862 Dec 28 07:38	0°궁			11863 Dec 20 12:27	ರ°ರ	
morning set	11863 Jan 04 13:17	14° る 05'05		superior conj	11863 Dec 27 02:48	13° る 58'42	1°31'17
superior conj	11863 Jan 12 03:53	29° る 40'48	1°17'44	minimum elong	11863 Dec 27 04:34	13 3 3842 14° る 07'56	1°31'57
minimum elong	11863 Jan 12 06:32	29° ප 54'11	1°18'10	max. Earth dist.	11863 Dec 31 06:09	22° る 30'24	1.34643 AU
g	11863 Jan 12 07:41	0°≈	1 10 10	man. Darm dige.	11864 Jan 04 01:23	0°≈	1.5 10 15 110
max. Earth dist.	11863 Jan 17 17:59	10° ≈ 38'44	1.36576 AU	evening rise	11864 Jan 04 12:23	0° ≈ 52'45	
evening rise	11863 Jan 21 13:02	17° ≈ 42'26		desc. node	11864 Jan 09 19:50	10° ≈ 40′18	
desc. node	11863 Jan 22 23:01	20° ≈ 15'38			11864 Jan 21 15:43	0°)	
	11863 Jan 28 14:25	0°) €		evening max el	11864 Feb 08 15:20	22°) € 39'06	26°48'29
	11863 Feb 18 02:48	0° Υ			11864 Feb 20 23:55	0° Y	
evening max el	11863 Feb 26 01:50	8° Y 55'57	25°50'57	retrograde	11864 Feb 21 20:00	0° Y ′02′19	
retrograde	11863 Mar 10 14:18	16° Y ′06'40			11864 Feb 22 15:48	30°Ŗ ℋ	
evening set	11863 Mar 16 15:37	13° Y °37′52		evening set	11864 Feb 28 07:44	27° ¥ 29′16	
asc. node	11863 Mar 18 14:57	11° Y ′44′27		min. Earth dist.	11864 Mar 03 08:13	23°) €29'23	0.66019 AU
min. Earth dist.	11863 Mar 20 21:47	9° Υ 04'00	0.67321 AU	asc. node	11864 Mar 04 12:18	22°) €07'37	001 (100
inferior conj	11863 Mar 22 10:14	7° Υ 09'08	1°11'13	inferior conj	11864 Mar 05 08:43	21°) (07'36	0°16'29
minimum elong	11863 Mar 22 08:37	7° Υ 14'16 1° Υ 20'16	1°10'35	minimum elong	11864 Mar 05 08:15	21°) 68'56 15°) 30'02	0°16'30
morning rise	11863 Mar 28 02:14 11863 Mar 31 09:39	0° Υ 17'43		morning rise direct	11864 Mar 11 10:01 11864 Mar 14 07:12	13° X 30'02 14° X 44'18	
morning max el	11863 Apr 07 03:29	3°Υ56'38	18°51'54	morning max el	11864 Mar 20 17:10	18°) (44 18	18°13'11
greatest brilliancy	11863 Apr 21 02:23	22° Υ 49'48	-0.8m	morning max ci	11864 Mar 29 17:30	0° Υ	10 13 11
desc. node	11863 Apr 21 00:37	22° Y '43'03	0.0111	desc. node	11864 Apr 06 21:16	12° Υ 54'27	
dese. node	11863 Apr 25 18:02	0°8		morning set	11864 Apr 08 21:55	16° Y 10'01	
morning set	11863 Apr 29 12:32	5° 8 51'25		Ü	11864 Apr 17 13:45	0° ႘	
max. Earth dist.	11863 May 14 03:08	28° 8 37'48	1.45527 AU		•		
	11863 May 15 00:07	Π $^{\circ}0$		superior conj	11864 Apr 24 04:45	10° 8 25'55	-1°48'27
				minimum elong	11864 Apr 23 19:30	9° 8 49'43	1°48'08
superior conj	11863 May 15 21:37	1° Ⅱ 24'21	-2°10'01	max. Earth dist.	11864 Apr 25 22:36	13° 8 09'41	1.45716 AU
minimum elong	11863 May 15 17:12	1°Ⅲ07′02	2°10'33		11864 May 06 17:55	Π °0	
evening rise	11863 May 31 01:15	25° ∏ 32'03		evening rise	11864 May 10 05:58	5° Ⅲ 27'17	
	11863 Jun 02 19:33	0.22		greatest brilliancy	11864 May 21 16:20	23° Ⅱ 07'45	-0.7m
asc. node	11863 Jun 14 12:44	18°520'18	10021110	,	11864 May 26 08:02	0°©	
evening max el	11863 Jun 20 09:32 11863 Jun 26 21:01	25° © 38'39 29° © 08'50	18°31'18	asc. node	11864 May 31 09:49 11864 Jun 02 18:51	6° © 43'32 9° © 20'49	10011100
retrograde evening set	11863 Jun 30 00:51	29 508 30 28° 512'35		evening max el retrograde	11864 Jun 09 17:29	13°©13'15	19°11'09
inferior conj	11863 Jul 05 18:05	22° © 38'44	2°55'48	evening set	11864 Jun 13 05:57	12° © 01'13	
minimum elong	11863 Jul 05 19:57	22°933'05	2°54'43	inferior conj	11864 Jun 18 16:40	6°9512'42	3°12'11
min. Earth dist.	11863 Jul 07 20:35	20°907'07	0.65107 AU	minimum elong	11864 Jun 18 17:28	6°9510'06	
morning rise	11863 Jul 11 14:01	16° © 17'54		min. Earth dist.	11864 Jun 20 04:24	4° © 17'12	0.66708 AU
direct	11863 Jul 18 02:28	13° © 36'39		morning rise	11864 Jun 24 04:26	29° Ⅱ 50′07	
desc. node	11863 Jul 18 00:24	13° © 36'41			11864 Jun 24 00:01	30°RⅡ	
morning max el	11863 Jul 31 13:49	21° © 32'33	27°09'50	direct	11864 Jun 30 08:34	27° Ⅱ 08'57	
	11863 Aug 07 22:29	0 ° Ω		desc. node	11864 Jul 03 21:35	27° Ⅱ 53'32	
	11863 Aug 27 18:54	0° ™			11864 Jul 07 15:04	0	
morning set	11863 Sep 05 02:43	15° TQ 16'52		morning max el	11864 Jul 13 00:40	4°5543'31	26°03'32
max. Earth dist.	11863 Sep 09 12:32	24° Tp 03'13	1.33495 AU		11864 Aug 01 09:11	0° Ω	
asc. node	11863 Sep 10 13:21	26° Mp 10′29 0° <u>₽</u>		morning set	11864 Aug 18 00:50	28° Ω 00'00 0° m	
	11863 Sep 12 09:29	0 ==		max. Earth dist.	11864 Aug 19 02:38 11864 Aug 21 20:13		1.35225 AU
superior conj	11863 Sep 13 12:19	2° ₽ 21'21	0°28'24	max. Earth dist.	11804 Aug 21 20.13	J III 11 43	1.33223 AU
minimum elong	11863 Sep 13 12:19	2° 2 14'01	0°28'05	superior conj	11864 Aug 27 07:41	16° Mp 04'16	-0°00'57
evening rise	11863 Sep 20 16:45	17° Ω 41'46		minimum elong	11864 Aug 27 07:45	16° Mp 04'38	
<i>y</i>	11863 Sep 26 18:00	0°M₊		behind sun begin	11864 Aug 27 01:43	15° m 33'57	
evening max el	11863 Oct 11 11:32	21°M47'08	21°58'04	behind sun end	11864 Aug 27 13:47	16° m/35'22	
desc. node	11863 Oct 13 21:20	23°M56'08		asc. node	11864 Aug 27 10:02	16°M) 16'17	
retrograde	11863 Oct 24 02:01	28° M $03'07$			11864 Sep 03 01:12	0∘ ⊽	
evening set	11863 Oct 27 04:50	27° ™ 41'22		evening rise	11864 Sep 04 00:56	2° ჲ 02'59	
min. Earth dist.	11863 Nov 04 16:08	23°M57'31	0.54653 AU		11864 Sep 20 06:37	0° M	
inferior conj	11863 Nov 05 01:30	23°M44'24		evening max el	11864 Sep 22 10:37	2°M21'13	20°30'14
minimum elong	11863 Nov 04 18:59	23°M53'31	5°32'37	desc. node	11864 Sep 29 18:44	7°M14'56	
morning rise	11863 Nov 13 10:25	19°M57'16		retrograde	11864 Oct 03 13:34	7°M52'35	
direct	11863 Nov 16 22:53	19°M30'00	2194922	evening set	11864 Oct 05 16:37	7°M41'21	4001104
morning max el	11863 Nov 29 02:58	25°M16'57 0°⊀	21°48'32	inferior conj	11864 Oct 14 18:01	3°M45'29 4°M00'01	
asc. node	11863 Dec 03 10:14 11863 Dec 07 14:12	0° x ' 5° x 747'24		minimum elong min. Earth dist.	11864 Oct 14 08:01 11864 Oct 16 00:04	3°M01'52	4°18'09 0.54714 AU
morning set	11863 Dec 07 14.12 11863 Dec 19 23:14	28° x 50'27		mm. Barui uist.	11864 Oct 22 04:18	30°R <u>Ω</u>	υ.J¬ / 1 Դ ΛΟ
morning sot	11005 Dec 17 25.14	20 7 30 21			11001 000 22 07.10	20 II	

morning rise	11864 Oct 22 22:56	29° ≏ 44'41		min. Earth dist.	11865 Sep 27 11:09	12° ≏ 27'09	0.55704 AU
direct	11864 Oct 27 07:43	29° ഫ 03'39		morning rise	11865 Oct 02 21:42	9° ≏ 34'42	
	11864 Nov 01 07:54	0° M .		direct	11865 Oct 08 02:32	8° £ 33'26	
morning max el	11864 Nov 09 16:04	5°M32'56	23°34'39	morning max el	11865 Oct 22 02:50	15° ≏ 37'21	25°20'13
asc. node	11864 Nov 23 11:09	24°ML05'58		Ü	11865 Nov 02 15:54	0° M	
	11864 Nov 26 17:24	0° ∡ 7		asc. node	11865 Nov 10 08:01	13°ML01'01	
morning set	11864 Dec 03 10:53	13° × 737'27		morning set	11865 Nov 17 22:34	28°M21'29	
morning set	11604 Dec 03 10.33	13 × 3/2/		morning set		20 IIC21 29 0° √	
	110(4D 10 00 14	200 722100	1020100		11865 Nov 18 16:52	0.8,	
superior conj	11864 Dec 10 08:14				1106537 04 15 15	100 31604	1020126
minimum elong	11864 Dec 10 08:52	28° ∡ ¹36'24	1°38'48	superior conj	11865 Nov 24 17:45	13° ∡ 16'34	1°38'26
	11864 Dec 11 00:21	0°ಕ		minimum elong	11865 Nov 24 17:16	13° ∡ 13'52	1°39'10
max. Earth dist.	11864 Dec 13 02:10	4° る 26'10	1.33108 AU	max. Earth dist.	11865 Nov 26 05:38	16° ≯ ³34′00	1.32038 AU
evening rise	11864 Dec 18 00:17	14° る 34'46		evening rise	11865 Dec 01 21:37	28° ҂ ′40′31	
	11864 Dec 26 05:11	0°≈			11865 Dec 02 13:04	0° ප	
desc. node	11864 Dec 26 16:43	0° ≈ 50'38		desc. node	11865 Dec 13 13:44	20° ප් 40'19	
	11865 Jan 15 12:02	0° ₩			11865 Dec 19 09:15	0° ≈	
evening max el	11865 Jan 21 04:20	6° ¥ 05'26	27°24'03	evening max el	11866 Jan 03 15:00	19° ≈ 02'40	27°30'53
retrograde	11865 Feb 03 19:22	13° ¥ 30′25	27 2103	retrograde	11866 Jan 17 11:16	26°≈22'09	27 30 33
•		10° X 59'39		•		20 ≈22 09 24°≈01'24	
evening set	11865 Feb 10 14:58		0.64267.411	evening set	11866 Jan 24 10:34		0.62424.444
min. Earth dist.	11865 Feb 14 11:02	7° ₩ 31'28	0.64367 AU	min. Earth dist.	11866 Jan 28 04:21	21°≈00'36	0.62434 AU
inferior conj	11865 Feb 16 23:00	4° ¥ 51'59		inferior conj	11866 Jan 31 02:10	18° ≈ 15′01	
minimum elong	11865 Feb 17 00:29	4°) 48′02	0°47'11	minimum elong	11866 Jan 31 06:16	18° ≈ 05'15	1°59'26
asc. node	11865 Feb 19 09:40	2° ∺ 22'31		asc. node	11866 Feb 06 06:59	13° ≈ 29'14	
	11865 Feb 22 10:41	30° ₹ ≈		morning rise	11866 Feb 07 04:30	13° ≈ 07'43	
morning rise	11865 Feb 23 11:56	29° ≈ 28′02		direct	11866 Feb 09 10:36	12° ≈ 44'33	
direct	11865 Feb 26 00:31	28° ≈ 55'28		morning max el	11866 Feb 16 03:42	16° ≈ 09'40	17°47'14
	11865 Mar 01 14:12	0°) €		Ü	11866 Feb 25 22:12	0°) €	
morning max el	11865 Mar 04 10:15	2°) 14'50	17°51'24	morning set	11866 Mar 04 01:32	10°) 41'43	
morning set	11865 Mar 21 11:54	27° \ 52'00	17 3124	desc. node	11866 Mar 11 14:32	23°) 52'08	
morning set		27 γ (32 00		desc. Hode		25 γ (32 08	
	11865 Mar 22 18:23				11866 Mar 15 05:06	0-1	
desc. node	11865 Mar 24 17:53	3° Ƴ 18'49					
				superior conj	11866 Mar 15 15:59	0° Y 45'39	
superior conj	11865 Apr 03 23:01	20° Y ′03′13		minimum elong	11866 Mar 15 12:57	0° Ƴ 32'57	
minimum elong	11865 Apr 03 15:26	19° Ƴ 32'43	1°11'28	max. Earth dist.	11866 Mar 22 11:01	11° Ƴ 55'24	1.43944 AU
max. Earth dist.	11865 Apr 08 17:55	27° Y 40'20	1.45168 AU	evening rise	11866 Mar 30 08:34	24° Ƴ 22'58	
	11865 Apr 10 05:25	$8^{\circ 0}$			11866 Apr 03 00:25	$8^{\circ 0}$	
evening rise	11865 Apr 19 19:20	14° 8 50'50			11866 Apr 23 23:17	Π°	
Č	11865 Apr 29 19:20	0°II		evening max el	11866 Apr 29 21:22	6° Ⅱ 51'32	21°15'20
greatest brilliancy	11865 May 04 21:02	7° Ⅱ 28'37	-0.6m	asc. node	11866 May 05 04:14	11° I I01'43	21 13 20
	11865 May 16 22:58	23° I 105'46			11866 May 08 14:36	11° I I57'40	
evening max el	•	24° I 121'56	20 00 40	retrograde	,	10° I 13'11	
asc. node	11865 May 18 06:59			evening set	11866 May 12 22:40		2005140
retrograde	11865 May 24 16:01	27° Ⅲ 31'11		inferior conj	11866 May 18 05:02	3° Ⅱ 59'49	3°05'49
evening set	11865 May 28 13:52	26° Ⅱ 02'53		minimum elong	11866 May 18 03:49	4° Ⅱ 04'03	3°05'01
inferior conj	11865 Jun 02 21:08	20° Ⅱ 01'08		min. Earth dist.	11866 May 18 12:48	3° Ⅱ 32'50	0.68553 AU
minimum elong	11865 Jun 02 20:50	20° Ⅱ 02'07	3°14'03		11866 May 21 05:11	30° ₹ 8	
min. Earth dist.	11865 Jun 03 18:29	18° Ⅱ 48'40	0.67863 AU	morning rise	11866 May 23 08:46	27° 8 43'57	
morning rise	11865 Jun 08 03:29	13° Ⅱ 40'46		direct	11866 May 28 12:55	25° 8 28'17	
direct	11865 Jun 13 20:26	11° Ⅱ 08'56			11866 Jun 06 04:38	$\Pi^{\circ}0$	
desc. node	11865 Jun 20 18:40	13° Ⅱ 58'17		desc. node	11866 Jun 07 15:41	1° Ⅱ 23'46	
morning max el	11865 Jun 25 10:34	18° 耳 06′07	24°40'41	morning max el	11866 Jun 07 20:44	1° Ⅱ 36′24	23°11'07
Č	11865 Jul 05 10:16	0ංම		Ü	11866 Jun 29 09:04	0ංම	
	11865 Jul 25 10:21	0°N		morning set	11866 Jul 12 12:01	20°5946'41	
morning set	11865 Jul 31 05:37	9° Ω 54'18		max. Earth dist.	11866 Jul 16 17:11	27°956'04	1.39661 AU
•			1 272 47 411	max. Earth dist.			1.39001 AU
max. Earth dist.	11865 Aug 03 19:38	16°3719'04	1.37347 AU		11866 Jul 17 21:44	0 ° Ω	
	11065 1 10 10 1	200 21	0022112		11066 7 1 24 12 2	110 0 42:25	1007110
superior conj	11865 Aug 10 16:24	29° Ω 15′06		superior conj	11866 Jul 24 10:29	11° Ω 43'27	
minimum elong	11865 Aug 10 18:38	29° Ω 25'58	0°33'46	minimum elong	11866 Jul 24 15:17	12° Ω 05'33	1°07'42
	11865 Aug 11 01:38	0° m)		asc. node	11866 Aug 01 03:32	26° Ω 18′06	
asc. node	11865 Aug 14 06:46	6°My20'17		evening rise	11866 Aug 02 23:33	29° Ω 49'44	
evening rise	11865 Aug 19 04:13	16°M)08'29			11866 Aug 03 01:41	0° m)	
	11865 Aug 26 09:26	0∘ ত		evening max el	11866 Aug 19 00:57	25° Mp 48'07	18°35'52
evening max el	11865 Sep 04 23:49	13° ≏ 42'12	19°22'19	retrograde	11866 Aug 27 00:55	29° m)49'11	
retrograde	11865 Sep 14 10:10	18° £ 24'11		evening set	11866 Aug 29 00:37	29° mp 35'07	
evening set	11865 Sep 16 06:29	18° ⊆ 14'10		desc. node	11866 Sep 03 13:34	26° m 51'49	
desc. node	11865 Sep 16 16:09	18° ⊆ 1410		inferior conj	11866 Sep 05 22:17	25° m) 07'42	-0°44'10
	-		2024/01		•		
inferior conj	11865 Sep 24 22:04	14° £ 06'23		minimum elong	11866 Sep 05 20:31	25° Mp 11'04	
minimum elong	11865 Sep 24 15:19	14° £ 17′23	2-31-22	min. Earth dist.	11866 Sep 09 03:30	22° 110/41'36	0.57429 AU

morning rise	11866 Sep 13 12:59	19° m 58'20		desc. node	11867 Aug 21 10:57	4° M 35′02	
direct	11866 Sep 19 11:02	18° ™ 30'55		min. Earth dist.	11867 Aug 22 03:31	3° ™ 59'31	0.59586 AU
morning max el	11866 Oct 03 18:22	26°Mp01'33	26°47'18	morning rise	11867 Aug 25 22:46	1° Mp 12′28	
	11866 Oct 07 12:28	0∘ ⊽			11867 Aug 28 10:37	30°R Ω	
	11866 Oct 26 23:30	0°M₊		direct	11867 Sep 01 09:05	29° Ω 16′28	
asc. node	11866 Oct 28 04:50	2°M22'21			11867 Sep 05 10:44	0° Mp	
morning set	11866 Nov 02 08:28	12°M56'49		morning max el	11867 Sep 15 17:26	7° Mp 06′52	27°41'48
					11867 Oct 02 23:51	0∘ ⊽	
superior conj	11866 Nov 09 05:13	28°M02'09	1°32'57	asc. node	11867 Oct 15 01:35	22° ≙ 02'53	
minimum elong	11866 Nov 09 03:47	27°M54'12	1°33'28	morning set	11867 Oct 17 14:51	27° ₽ 19'03	
max. Earth dist.	11866 Nov 09 13:39	28°M49'09	1.31452 AU		11867 Oct 18 21:14	0° M	
	11866 Nov 10 02:22	0° ∡ ¹		max. Earth dist.	11867 Oct 23 22:36	11°M03'32	1.31360 AU
evening rise	11866 Nov 16 01:34	13° ∡ 01'42					
	11866 Nov 24 15:21	0°ಕ		superior conj	11867 Oct 24 16:45	12°M44'33	1°21'48
desc. node	11866 Nov 30 10:48	9° る 59'55		minimum elong	11867 Oct 24 14:42	12°M33'07	1°22'02
	11866 Dec 15 13:04	0° ≈		evening rise	11867 Oct 31 09:54	27° M 32'41	
evening max el	11866 Dec 16 20:27	1° ≈ 16'43	27°04'20		11867 Nov 01 13:32	0° ∡ ¹	
retrograde	11866 Dec 30 18:35	8° ≈ 28'11		desc. node	11867 Nov 17 07:57	28° ₮ 38'00	
evening set	11867 Jan 06 15:05	6° ≈ 25'55			11867 Nov 18 06:19	8°0	
min. Earth dist.	11867 Jan 10 10:50	3° ≈ 44'32	0.60319 AU	evening max el	11867 Nov 28 18:09	12° る 38'58	26°03'50
inferior conj	11867 Jan 13 14:41	1° ≈ 06'54	-3°20'26	retrograde	11867 Dec 12 16:11	19° る 42'25	
minimum elong	11867 Jan 13 21:36	0° ≈ 52'30	3°17'16	evening set	11867 Dec 19 00:18	18° ප 07'02	
· ·	11867 Jan 14 23:15	30°Rる		min. Earth dist.	11867 Dec 23 07:03	15° ⋜ 31'25	0.58201 AU
morning rise	11867 Jan 21 06:56	26° ට 19'40		inferior conj	11867 Dec 26 09:03	13° る 17'52	-4°36'16
direct	11867 Jan 23 09:26	26° ප 02'21		minimum elong	11867 Dec 26 17:26	13° ප 02'41	4°33'15
asc. node	11867 Jan 24 04:14	26° පි 04'50		morning rise	11868 Jan 03 13:16	8° ප 52'59	
morning max el	11867 Jan 30 18:08	29° ප් 42'51	18°01'46	direct	11868 Jan 05 16:29	8° ට 38'07	
5 5	11867 Jan 31 01:01	0° ≈		asc. node	11868 Jan 11 01:27	10° ට 18'44	
morning set	11867 Feb 15 08:26	24°≈19'27		morning max el	11868 Jan 14 01:48	12° ප් 43'55	18°36'34
5 - 5	11867 Feb 18 10:03	0°) €			11868 Jan 25 16:18	0° ≈	
		* / (morning set	11868 Jan 30 03:18	8° ≈ 29'10	
superior conj	11867 Feb 25 09:23	12°) €37'03	0°08'23				
minimum elong	11867 Feb 25 10:06	12°) 40′10	0°08'34	superior conj	11868 Feb 07 23:36	25° ≈ 26'13	0°41'15
behind sun begin	11867 Feb 25 03:23	12°) 10′28		minimum elong	11868 Feb 08 02:10	25° ≈ 38'12	0°41'22
behind sun end	11867 Feb 25 16:49	13° ₩ 09'48		g	11868 Feb 10 10:56	0°) €	v
desc. node	11867 Feb 26 11:10	14°) € 30′28		desc. node	11868 Feb 13 07:49	5°) 10′00	
max. Earth dist.	11867 Mar 04 23:58	25°) 39'56	1.42165 AU	max. Earth dist.	11868 Feb 15 08:02	8°) (42'00	1.40037 AU
	11867 Mar 07 15:06	0°Υ		evening rise	11868 Feb 19 10:56	15°) €43'58	
evening rise	11867 Mar 10 11:30	4° Υ 35'59		evening rise	11868 Feb 28 08:04	0°Υ	
e vennig 1190	11867 Mar 27 07:33	0°8			11868 Mar 21 02:17	0°8	
evening max el	11867 Apr 12 14:51	20° 8 38'29	22°32'42	evening max el	11868 Mar 25 05:14	4° 8 27'31	23°53'22
retrograde	11867 Apr 22 11:35	26° 8 28'00		retrograde	11868 Apr 05 05:41	10° 8 56'39	
asc. node	11867 Apr 22 01:29	26° 8 27'09		asc. node	11868 Apr 07 22:47	10° 8 22'38	
evening set	11867 Apr 27 06:42	24° 8 28'18		evening set	11868 Apr 10 12:22	8° 8 43'30	
inferior conj	11867 May 02 14:20	18° 8 05'36	2°46'26	min. Earth dist.	11868 Apr 15 05:45	3° 8 13'59	0.68549 AU
minimum elong	11867 May 02 12:28	18° 8 12'07	2°45'31	inferior conj	11868 Apr 15 23:08	2° 8 14'46	2°17'11
min. Earth dist.	11867 May 02 09:16	18° 8 23'17	0.68776 AU	minimum elong	11868 Apr 15 20:58	2° 8 22'08	2°16'14
morning rise	11867 May 07 18:07	11° 8 55'34			11868 Apr 17 15:30	30°R Ƴ	
direct	11867 May 12 08:59	10° 8 00'02		morning rise	11868 Apr 21 05:36	26° Ƴ 11'42	
morning max el	11867 May 21 10:12	15° 8 16'06	21°43'51	direct	11868 Apr 25 07:31	24° Ƴ 37'32	
desc. node	11867 May 25 12:37	19° 8 48'26		morning max el	11868 May 03 05:52	29° Ƴ 07'05	20°25'49
	11867 Jun 02 07:58	0°II			11868 May 04 02:37	0°8	
	11867 Jun 22 09:05	0°ಅ		desc. node	11868 May 11 09:26	8° 8 55'55	
morning set	11867 Jun 22 16:40	0°530'09			11868 May 25 21:38	0°II	
max. Earth dist.	11867 Jun 28 18:49	10°523'20	1.41887 AU	morning set	11868 May 31 22:57	9° Ⅱ 15'49	
man zarin dibi.	11007 0411 20 10.19	10 -2320	1.11007110	max. Earth dist.	11868 Jun 10 02:43	23° II 40'52	1.43765 AU
superior conj	11867 Jul 06 09:27	23°519'20	-1°39'40	max. Earth dist.	11868 Jun 14 00:19	0°ම	1.13703710
minimum elong	11867 Jul 06 16:07	23°548'25			11000 van 11 00.19	ů Č	
	11867 Jul 10 04:10	0°Ω	- 57 10	superior conj	11868 Jun 16 09:16	3°954'20	-2°03'48
evening rise	11867 Jul 17 07:12	12° Ω 57'22		minimum elong	11868 Jun 16 14:59	4°9518'01	2°04'16
asc. node	11867 Jul 17 07:12 11867 Jul 19 00:21	12 00 5/22		evening rise	11868 Jun 28 22:24	25°919'14	2 0 1 10
asc. node	11867 Jul 19 00:21 11867 Jul 26 23:33	0°m)		510mmg 1150	11868 Jul 01 14:47	0°Ω	
evening max el	11867 Jul 20 23:33 11867 Aug 02 10:08	8° m y31'01	18°10'09	asc. node	11868 Jul 04 21:11	5° Ω 38'26	
retrograde	11867 Aug 02 10:08 11867 Aug 09 10:27	12° Mp 04'56	10 10 07	evening max el	11868 Jul 15 23:24	21° Ω 40'45	18°03'57
evening set	11867 Aug 11 17:16	12 mp 04 30		retrograde	11868 Jul 22 10:59	25°Ω02'03	10 0331
inferior conj	11867 Aug 18 20:10	6° Mp 54'47	0°47'07	evening set	11868 Jul 25 01:51	24° Ω 28'25	
minimum elong	11867 Aug 18 20:10 11867 Aug 18 21:39	6° Mp 51'29	0°46'12	inferior conj	11868 Jul 31 12:41	_	1°54'22
mmmum ciong	1100, 11ug 10 21.39	5 ng 51 29	0 10 12	monor conj	11000 341 31 12.71	12000	1 0 1 44

11870 Jun 13 01:03

18°9548'07

18°46'15

evening max el

11869 Jul 08 21:14

7°**Ω**43'58

evening set

1800 1800	ratra ara da	11970 Jun 10 16:07	220625154		asa mada	11971 May 26 12:16	19630153	
Information 1870 and 28 1348 592378 597340 597360 5973	retrograde	11870 Jun 19 16:07	22°525'54		asc. node	11871 May 26 12:16	1°939'52	1002250
minimandloader 1870 and 30 ps. 18 95.00 s. 1879.20 s. 1879.	-			2004124	-	•		19 32 39
min familiarion 1870 may 10 952 6752475 6754470 minformed moming rise 1870 may 10 1520 99207327 3*1490 direct 11870 may 10 1520 6938328 minitium closed 11871 may 12 1520 29712292 3*1491 moming max 11870 may 10 12 23 1901 692688 minitium closed 11871 may 12 10 10 10 20 672 6740 may 12 10 10 10 10 10 10 10 10 10 10 10 10 10	-				-			
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direct 1879 Jul 1 of 25.00 6928372 minimath dois 1873 Jul 1 of 25.00 6728478 minimath dois 1873 Jul 1 of 25.00 7124000 7274 Jul 1 of 25.00 7124000 7274 Jul 1 of 25.00				0.03644 AU	inforior aoni		•	2014/40
desc description 11870 Jul 2025 6°954008 min. Earl dist 11870 Jul 2012 2070 Jul 2012 4"2024 Its 2012 morning morning max 11870 Jul 2012 2071 Jul 2012 direct 11871 Jul 2012 2012 Jul 2012 2012 Jul 2012 11871 Jul 2012 2012 Jul 2012 <td>=</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	=							
1870 1870					Č			
1870 1870				26044'18				0.07230 AO
1870 1870	morning max er			20 44 16	=			
moming seal 1870 Aug 28 1441 8° 1906 50 1347 20° 27° 1474 20° 27° 1474 20°								
max. Endt dist 11870 Sep* 04 15.38 22**B0316 13475 AU 11871 Jul 08 09.04 0°E 1370 Sep 22**B3525 0°1620 max. Farth dist. 11871 Aug 10 0.52 20**Q3024 1.36004 AU evening rise 11870 Sep 10 6 07.46 25**B3525 0°1610 max. Farth dist. 11871 Aug 10 0.52 27**Q1519 1.36004 AU evening rise 11870 Sep 13 11.05 0°A seperior conj 11871 Aug 20 0.52 9**B0524 -0°1421 evening rise 11870 Oct 27 2351 17**B1372 esperior conj 11871 Aug 20 0.52 9**B0524 0°1422 evening and 11870 Oct 27 02351 17**B1372 esperior conj 11871 Aug 20 0.52 9**B1525 0°1421 2**B2525 evening and 11870 Oct 27 0275 11870 Oct 27 0.50 15**B1325 5'9709 evening fise 11871 Aug 20 0.52 2**B2525 0°1422 11871 Aug 20 0.52 2**B2525 0°1422 11871 Aug 20 0.52 0°1422 11871 Aug 20 0.52 2**B2525 0°142	morning set	•						25°20'47
asc. nede 1870 Sp. 04 15.38 22*B0316 section of manimal or	•	•	-	1 2/175 AII	morning max er			23 2941
mainimum elong 1870 Sep 06 08.38 25% 30°16'10 max. Earth dist. 1871 Aug 11 05.57 20°21.072 1.36094 AU 1.370 Sep 08 1105 0°4		=		1.541/5 AU				
superior conj minimum conj minimum colog 11870 Sep 0.0 60.838 28°P§3°25 0°10°9 mark Earth dist 11871 Aug 1.6 128.2 2°P0/152 0°P0 evening rise 11870 Sep 0.8 11.05 0°A superior conj 11871 Aug 1.0 23.5 0°P0/24 0°P1/24 0°P1/24<	asc. node	118/0 Sep 04 15:38	22 1103 16					
minume along 11870 Sep 06 0974e 25°B 30% of 104 0°B 1870 Sep 03 1751 11°B 0980 13 1751 0°B 0980 14 12 12 12 12 12 12 12 12 19 10 13 1		11070 0 07 00.20	250m25125	0017130	•	•		1 26004 AII
evening rise 1870 Sep 08 11-05 0°A 1870 Sep 03 17-05 11°A 6995 118°70 Sep 13 11°A 20 10°A 10°A 11°A 11°A 11°A 11°A 11°A 11°		*			max. Earth dist.	=		1.30094 AU
evening frame H870 Sep 13 175.1 1 Page 1975 6 Page 1975 7 Page 1975 </td <td>minimum elong</td> <td>•</td> <td>-</td> <td>0°16'10</td> <td></td> <td>118/1 Aug 16 08:22</td> <td>Oslib</td> <td></td>	minimum elong	•	-	0°16'10		118/1 Aug 16 08:22	Oslib	
coning mack 11870 Sep 2: 11.02 0°RL minimum dong 11871 Aug 21 0.045 9°R190*8 0°1442 PI desci node 11870 Oct 10° 10:31 3°R33281 21°1871 behind sun edi 11871 Aug 21 0:32 8°R19678 7 desci node 11870 Oct 10° 10:31 19°R1102 escinde 11871 Aug 21 0:32 2°P02725 1 cering sed 11870 Oct 2° 0:008 18°R1001 19°R1020 2°9099 1871 Aug 31 06:31 0°E 2°E 3°E 3°E 3°E 3°E 3°E 4°E 4°E 4°E 3°E 3°E </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>11051 1 20 22 51</td> <td>0000005104</td> <td>001.412.1</td>						11051 1 20 22 51	0000005104	001.412.1
Second 1870 Oct 03 1023 13"8.251 12"837 behind sun begin 1871 Aug 20 22-09 8"8"5657 12"807 12	evening rise	•				•		
desc. node 1870 Oct 07 23-51 7°ML317 seb.ind sun ord 1871 Aug 21 03-22 9°M2279 7°M2279 7°M		=			_	· ·	-	0°14'42
cvcning act 11870 Oct 15 1043 19°BL3102 case ande 11871 Aug 22 12-19 12°B0375 Carcing rise 11871 Aug 22 10-15 25°B0325 Carcing rise 11871 Aug 23 10-631 0°A Carcing rise 11871 Aug 23 10-631 0°A Carcing rise 11871 Aug 23 10-631 0°A 0°B	•			21°18'37	_	•		
Persing set 1870 Oct 18 0139 1987L1507 1870 Cat 27 0208 1870					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•		
inferior conj 11870 Oct 27 02.08 15"Ila2002 -5"0929 I 1871 Aug 31 06.31 0°A 3"5837 minimumelong 11870 Oct 26 17:10 15"Ila2025 5"07090 evening max el 11817 Sep 24 15:15 29"A3147 morning frase 11870 Nov 08 06-55 10"Ila2028 15"Ila2028 ecening max el 11871 Sep 22 60:52 29"A3327 morning max el 11870 Nov 08 06-55 10"Ila2028 22"3240 inferior conj 11871 Oct 06 12:53 25"A2528 -38"3803 as. node 11870 Dec 01 16:39 0°\$5008 minimum elong 11871 Oct 06 12:42 22"A2943 338'03 superior conj 11870 Dec 10 16:13 0°\$5008 minimum elong 11871 Oct 06 12:42 22"A2943 32"A2114 superior conj 11870 Dec 10 16:13 0°\$5008 morning rise 11870 Dec 10 16:13 0°\$70006 32"A2141 1870 Dec 20 16:30 0°\$2"A2443 32"A2141 1871 Dec 118 Dec 20 16:30 0°\$2"A2443 32"A2141 1871 Dec 20 16:30 0°\$2"A2443 32"A2141 1871 Dec 20 16:30 0°\$2"A2443 32"A244 32"A2141 32"A2141 32"A2141 32"A2	•	11870 Oct 15 10:43				•		
minimum dong minimar dist. 11870 Oct 26 17:10 15°R325'S 5°0709 evening max el 11871 Sep 15 15:14 24°262450 19°837'N minimarth dist. 11870 Nov 04 09:25 11°R10023'S erening act 11871 Sep 24 21:16 29°A31'A' direct 11870 Nov 08 06:45 10°R1027'S erening set 11871 Sep 27 23:12 29°A23'S asc. node 11870 Dec 01 04:09 0°R minimum elong 11871 Oct 06 12:42 25°A3924 33'84'3 morning set 11870 Dec 01 16:10 0°R minimum elong 11871 Oct 06 12:42 25°A3924 33'44'3 morning set 11870 Dec 01 16:13 0°R minimum elong 11871 Oct 06 12:42 25°A3924 33'44'3 superior conj 11870 Dec 20 01:40 7°R-29'84 1°3456 morning set 11871 Nov 05 05:33 0°R superior conj 11870 Dec 20 01:40 7°R-29'82 1°3456 morning set 11871 Nov 05 05:33 0°R desening fise 11870 Dec 20 01:40 7°R-29'82 1°3456 morning set 11871 Nov 05 05:33 0°R sevening	•	11870 Oct 18 01:39			evening rise	•	-	
min garth dist	inferior conj					•		
moming rise direct 11870 Nov 04 09.25 1 PRJ 0525 refrograde direct 11871 Sep 27 23:12 29° Δ3'26' 19° Δ2'6' 1870 Nov 08 06.45 10° MISTO Sep 20 23:49 refrograde (Friedroson) 11871 Oct 06 12:33 25° Δ2'528' 33803	minimum elong	11870 Oct 26 17:10	15° M 32'55	5°07'09	evening max el	11871 Sep 15 15:14	24° ≏ 24'50	19°58'37
direct 11870 Nov 08 06.45 10°ILS7°S evening set 11871 Sep 27 23:12 29°A2531 vol 20°A351 morning max el 11870 Doc 01 04:09 0°A minimum clong 11871 Oct 06 21:53 22°A2528 33'803 asc node 11870 Doc 01 01:03 0°A'S008 minimum clong 11871 Oct 08 18:31 24°A1756 0'S5027 AU morning set 11870 Doc 16 13:44 0°G direct 11871 Oct 15 00:53 21°A2174 0'S5027 AU superior conj 11870 Doc 20 01:40 7°G2942 13'456 11871 Nov 02 10:56 20°A2043 18'20'A176 0'A' 27°40'976 24°20'A1 minimum clong 11870 Doc 20 01:40 7°G2942 13'456 11871 Nov 02 10:56 30°T 0'A' 1871 Nov 02 10:56 0°A' 1871 Nov 02 10:51 0°A' 1871 Nov 02 10:56 0°A'	min. Earth dist.	11870 Oct 27 09:44	15° ™ 09'40	0.54563 AU	desc. node	11871 Sep 24 21:16	29° ≏ 31'47	
moming max ell as now 20 11870 Nov 20 23:49 17°R.02'46 22°32'40 inferior conj 11871 Oct 06 21:52 25°22'82' 3'34'34'3 as. c. node 11870 Dec 01 10:49 0°×50'08 minimum clong 11871 Oct 06 12:42 25°32'93' 3'43'43 morning set 11870 Dec 15 10:18 22°×22'8'3 morning rise 11871 Oct 15 10:50 21°£413'14 superior conj 11870 Dec 20 11870 7°₹29'42 1°34'56 morning max el 11871 Nov 05 05:33 0°R minimum clong 11870 Dec 20 11870 14°₹55'24 13942 AU morning set 11871 Nov 16 05:33 0°R evening rise 11870 Dec 23 14°35'524 13942 AU morning set 11871 Nov 27 13:11 7°₹4'55'52 13942 AU desc. node 11870 Dec 23 13:05'50 6°83'71'4 superior conj 11871 Dec 04 09:06 22°×30'83'5 193'8'3 evening max el 11871 Jan 13 13:18 15°*40'45'5 27°03'74 minimum clong 11871 Dec 04	morning rise	11870 Nov 04 09:25	11°M30'23		retrograde	11871 Sep 26 00:52	29° ≏ 35'26	
1870 Dec 01 04:09 0°×3 minimum elong 11871 Dec 10 12:42 25°±39'24 3°34'43 min. Earth dist.	direct	11870 Nov 08 06:45	10° ™ 57'50		•	11871 Sep 27 23:12	29° ≏ 25'31	
asc. node 11870 Dec 01 16.139 0°×35008 min. Earth dist. 11871 Oct 08 18.31 24°£1756 0.55027 AU morning set 11870 Dec 16 13.14 22°×28°43 morning rise 11871 Oct 15 10.53 21°£1314 "C augerior conj 11870 Dec 20 01.54 7°₹29°42 1°34′56 morning max el 11871 Nov 02 10.56 27°£09°2 24°20′54 minimum colo 11870 Dec 20 01.58 7°₹36/35 1°35′40 asc. node 11871 Nov 20 01.56 0°×2 1 evening rise 11870 Dec 23 14.39 14°₹55′24 1.33942 AU morning set 11871 Nov 20 15.10 0°×2 1 desc. node 11871 Jan 03 22.06 6°≈37′14 superior conj 11871 Dec 04 09.06 22°×80'35 1°38'56 evening max el 11871 Jan 18 17.37 0°% minimum elong 11871 Dec 04 09.06 22°×80'35 1°38'56 evening max el 11871 Feb 14 07.21 23°*H1014 superior conj 11871 Dec 04 09.06 22°×80'35 1°38'56 retrograde 11871 Feb 20°213 16°*H16**H12* 23°*H1014 superior conj <td>morning max el</td> <td>11870 Nov 20 23:49</td> <td>17°M02'46</td> <td>22°32'40</td> <td>inferior conj</td> <td>11871 Oct 06 21:53</td> <td>25°≏25'28</td> <td>-3°38'03</td>	morning max el	11870 Nov 20 23:49	17° M 02'46	22°32'40	inferior conj	11871 Oct 06 21:53	25° ≏ 25'28	-3°38'03
morning set 1870 Dec 13 01:18 22° x 22843 morning rise 11871 Oct 15 00:53 21° a 13'14 morning rise 11871 Oct 15 18:06 20° a 24'20'54 24'20'54 24'20'54 24'20'54 25'20'54		11870 Dec 01 04:09	0° ⊀		minimum elong	11871 Oct 06 12:42	25° ₽ 39'24	3°34'43
Superior conj 11870 Dec 16 13:44 0°B 11871 Mor 18 11871 Nov 02 10:56 27°B0926 24°20'54 34°56 38°81 Nov 02 10:56 27°B0926 24°20'54 34°56 38°81 Nov 03 10:56 37°B0926 24°20'54 38°81 Nov 03 10:56 38°B N Nov 03 10	asc. node	11870 Dec 01 16:39	0° ≯ 50′08		min. Earth dist.	11871 Oct 08 18:31	24° ₽ 17'56	0.55027 AU
superior conj 11870 Dec 20 01:40	morning set	11870 Dec 13 01:18	22° х 28'43		morning rise	11871 Oct 15 00:53	21° ≙ 13'14	
superior conj 11870 Dec 20 01:40 7°€2942 1°34'56 11871 Nov 18 13:33 0°™L2504 max. Earth dist. 11870 Dec 20 02:58 7°€36'35 1°35'40 asc. node 11871 Nov 18 13:33 19°™L25'04 evening rise 11870 Dec 28 03:09 24°€30'006 morning set 11871 Nov 27 13:11 7°×²14'57 desc. node 11871 Jan 03 22:06 6°≈37'14 superior conj 11871 Dec 04 09:06 22°×30'835 1°38'56 evening max el 11871 Jan 18 17:37 0°× minimum elong 11871 Dec 04 09:05 22°×30'835 1°38'56 evening max el 11871 Feb 14 07:21 23°¥10'14 max. Earth dist. 11871 Dec 06 14:02 26°×75'34 1.325*87 AU retorgade 11871 Feb 14 07:21 23°¥10'14 evening set 11871 Dec 06 14:02 26°×75'34 1.325*87 AU retoring act 11871 Feb 24 21:28 16°¥5'12'5 0.636'7 AU desc. node 11871 Dec 01 119:21 2°°€3'9'4 1.325*87 AU retoring act 11871 Dec 21 19:04 26°*35'34 1.48*210'4 0°09'21 evening set 11871 Dec 06 14:02		11870 Dec 16 13:44	ರ°0		direct	11871 Oct 19 18:06	20° ≏ 24'43	
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max. Earth dist. 11870 Dec 23 14:39 14°555'24 1.33942 AU morning set 11871 Nov 24 01:56 0° ₹ evening rise 11870 Dec 23 106:36 0° ∞ morning set 11871 Nov 27 13:11 7° ₹ 14′57 1 desc. node 11871 Jan 18 17:37 0° % superior conj 11871 Dec 04 09:06 22° ₹0835 1°38′56 evening max el 11871 Jan 18 17:37 0° ¥ minimum elong 11871 Dec 04 09:06 22° ₹0835 1°38′56 evening max el 11871 Feb 14 07:21 23° ¥16'14 max. Earth dist. 11871 Dec 08 00:28 0° ₹ 5° ₹85'548 1.32587 AU evening set 11871 Feb 20 22:58 20° ¥37'21 evening rise 11871 Dec 01 10:21 7° ₹52'34 1.32587 AU inferior conj 11871 Feb 27 02:56 14° ¥21'04 0°0945 11871 Dec 21 119:21 7° ₹52'34 1.32587 AU inferior conj 11871 Feb 27 03:12 14° ¥21'04 0°0945 11871 Dec 21 119:21 7° ₹52'34 1.32587 AU inferior conj 11871 Feb 27 03:12 14° ¥21'18 0°0921 11872 Dec 21 119:02 20° ₹35'34	superior conj	11870 Dec 20 01:40	7° る 29'42	1°34'56		11871 Nov 05 05:33	0° M	
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desc. node 11871 Jan 03 22:06 6≈≈3714 superior conj 11871 Dec 04 09:05 22°₹08'35 1°38'56 evening max el 11871 Jan 18 17:37 0°¥ minimum elong 11871 Dec 04 09:05 22°₹09'22 1°39'43 evening max el 11871 Jan 31 21:58 15°¥46'05 27°06'37 max. Earth dist. 11871 Dec 06 14:02 26°₹5'24 13258'7 AU evening set 11871 Feb 14 07:21 23°¥10'14 evening rise 11871 Dec 08 00:28 0°₹ evening set 11871 Feb 20 22:58 20°¥57:21 evening rise 11871 Dec 11 19:21 7°₹52'34 min. Earth dist. 11871 Feb 27 02:56 16°¥51'25 0.6536'A AU desc. node 11871 Dec 21 19:04 26°₹39'44 inferior conj 11871 Feb 27 03:12 14°¥20'18 0°09'21 evening max el 11872 Jan 14 10:05 20°≈0'117 27°30'46 transit middle 11871 Feb 27 03:12 14°¥20'18 0°09'21 evening max el 11872 Jan 14 10:05 20°*≈0'117 27°30'46 transit middle 11871 Feb 27 03:12 14°¥20'18 0°09'21 evening max el	evening rise	11870 Dec 28 03:09	24° る 00'06		morning set	11871 Nov 27 13:11	7° ∡ 14'57	
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Petrograde 11871 Feb 14 07:21 23°\(\) 10'14 verning set 11871 Dec 08 00:28 0°\(\) 25'34 verning set 11871 Feb 20 22:58 20°\(\) \(\) 37'21 verning rise 11871 Dec 11 19:21 7°\(\) 52'34 verning set 11871 Feb 24 21:28 16°\(\) \(\) 51'25 0.65367 AU desc. node 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 21 19:04 26°\(\) 39'44 verning rise 11871 Dec 27 03:12 14°\(\) 4°\(\) 20'18 0°09'21 verning max el 11872 Jan 14 10:05 29°\(\) 20°\(\) 187 verning rise 11871 Feb 27 03:12 14°\(\) 4°\(\) 20'18 0°09'21 verning rise 11872 Jan 15 11:23 0°\(\) 187 verning rise 11871 Feb 27 05:39 14°\(\) 4°\(\) 13°\(\) 47'28 min. Earth dist. 11872 Feb 04 01:41 3°\(\) 45'659 asc. node 11871 Feb 27 14:54 13°\(\) 48'728 min. Earth dist. 11872 Feb 07 20:16 0°\(\) 41'13 3°\(\) 66'55 30°\(\) 40'13 30'65574 AU 30'\(\) 40'13 30'6557 30'\(\) 40'13 30'\(\) 40'13 30'\(\) 40'13 40'\(\) 4		11871 Jan 18 17:37	0° ∀		minimum elong	11871 Dec 04 09:15	22° ₹ '09'22	1°39'43
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min. Earth dist.	retrograde	11871 Feb 14 07:21	23° ¥ 10′14			11871 Dec 08 00:28	0°ರ	
min. Earth dist. 11871 Feb 24 21:28 16° ★51'25 0.65367 AU desc. node 11871 Dec 21 19:04 26° ₹39'44 learth dist. 11871 Feb 27 02:56 14° ★21'04 -0°09'45 11871 Dec 23 18:09 0° ≈ 1871 Feb 27 03:12 14° ★20'18 0°09'21 evening max el 11871 Dec 23 18:09 0° ≈ 20° ≈ 01'17 27° 30'46 transit middle 11871 Feb 27 03:12 14° ★20'18 0°09'21 11872 Jan 15 11:23 0° ★ 12° × 00'46 1871 Feb 27 03:12 14° ★20'18 0°09'21 11872 Jan 15 11:23 0° ★ 12° × 00'46 1871 Feb 27 03:12 14° ★20'18 0°09'21 11872 Jan 15 11:23 0° ★ 12° × 40'52 11871 Feb 27 03:12 14° ★21'11 retrograde 11872 Jan 15 11:23 0° ★ 1871 Feb 27 03:12 14° ★12'11 retrograde 11872 Jan 12 12 12 20° ★133 0° 535 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12 18° ★19'12<	•	11871 Feb 20 22:58	20° ¥ 37′21		evening rise	11871 Dec 11 19:21	7° る 52'34	
Inferior conj Inferior c	=	11871 Feb 24 21:28	16° ¥ 51'25	0.65367 AU	=	11871 Dec 21 19:04	26° る 39'44	
minimum elong transit middle 11871 Feb 27 03:12 14°¥20′18 0°09′21 evening max el 11872 Jan 14 10:05 29°≈01′17 27°30′46 29°≈01′17 27°30′46 transit middle 11871 Feb 27 03:12 14°¥20′18 0°09′21 retrograde 11872 Jan 15 11:23 0°¥ 0°¥ 1 transit begin 11871 Feb 27 00:46 14°¥27′11 retrograde 11872 Jan 28 03:42 6°¥24′52 6°¥24′52 1 asc. node 11871 Feb 27 05:39 14°¥13′25 evening set 11872 Feb 04 01:41 3°¥56′59 3°¥56′59<	inferior coni	11871 Feb 27 02:56	14° ¥ 21'04	-0°09'45			0° ≈	
transit middle transit begin	,		14° ¥ 20'18	0°09'21	evening max el		29° ≈ 01'17	27°30'46
transit begin	•		14° ¥ 20'18	0°09'21	Z .		0° ₩	
transit end 11871 Feb 27 05:39 14°\tau125	transit begin				retrograde		6° ¥ 24'52	
asc. node	•				•			
morning rise					-			0.63574 AU
direct 11871 Mar 08 02:21 8°★09'08 inferior conj 11872 Feb 10 12:54 27°≈57'39 -1°18'25 morning max el 11871 Mar 14 11:05 11°¥29'10 18°01'46 minimum elong 11872 Feb 10 15:26 27°≈51'13 1°16'52 asc. node 11872 Feb 14 12:15 24°≈18'25 morning set 11871 Apr 01 15:05 8°Ŷ19'28 morning rise 11872 Feb 17 07:24 22°≈40'45 desc. node 11871 Apr 15 01:48 0°∀ morning max el 11872 Feb 19 16:58 22°≈12'39 morning max el 11871 Apr 15 01:48 0°∀ morning max el 11872 Feb 26 04:49 25°≈33'02 17°47'30 180 morning max el 11872 Feb 29 23:10 0°∀ superior conj 11871 Apr 16 04:15 1°∀49'04 1°33'42 desc. node 11872 Mar 13 15:58 20°¥33'05 10°Y evening rise 11871 May 02 06:48 26°∀48'52 11871 May 04 08:26 0°Ⅱ superior conj 11872 Mar 26 07:34 11°Ŷ49'00 -0°54'47 greatest brilliancy 11871 May 15 14:40 17° П06'36 -0.7m minimum elong 11872 Mar 26 01:50 11°Ŷ25'37 0°54'04					mm. Darm digt.			0.0307.110
morning max el 11871 Mar 14 11:05 11° χ29'10 18°01'46 minimum elong 11872 Feb 10 15:26 27° ≈51'13 1°16'52 asc. node 11871 Mar 27 12:47 0° Υ asc. node 11872 Feb 14 12:15 24° ≈18'25 morning set 11871 Apr 01 15:05 8° Υ19'28 morning rise 11872 Feb 17 07:24 22° ≈40'45 desc. node 11871 Apr 15 01:48 0° ∀ morning max el 11872 Feb 19 16:58 22° ≈12'39 11871 Apr 15 01:48 0° ∀ morning max el 11872 Feb 26 04:49 25° ≈33'02 17° 47'30 18 perior conj 11871 Apr 16 04:15 1° ∀ 44'28 -1° 34'20 morning set 11872 Mar 13 15:58 20° ℋ 33'25 minimum elong 11871 Apr 15 19:01 1° ∀ 08'04 1° 33'42 desc. node 11872 Mar 18 20:06 29° ℋ 23'01 max. Earth dist. 11871 Apr 19 08:01 6° ∀ 42'23 1.45578 AU 11872 Mar 19 04:52 0° Υ evening rise 11871 May 04 08:26 0° Ⅱ superior conj 11872 Mar 26 07:34 11° Υ 49'00 -0° 54'47 greatest brilliancy 11871 May 15 14:40 17° Π06'36 -0.7m minimum elong 11872 Mar 26 01:50 11° Υ 25'37 0° 54'04	•				inferior coni			-1°18'25
morning set 11871 Mar 27 12:47 0°				18°01'46				
morning set desc. node 11871 Apr 01 15:05 8°Υ19'28 direct 11872 Feb 17 07:24 22°≈40'45 direct 11872 Feb 19 16:58 22°≈12'39 11871 Apr 15 01:48 0°႘ morning max el 11872 Feb 29 23:10 0°χ superior conj 11871 Apr 16 04:15 1°႘ 11871 Apr 15 19:01 1°႘ morning set 11872 Feb 29 23:10 0°χ superior conj 11871 Apr 15 19:01 1°႘ morning set 11872 Mar 13 15:58 20°χ 3'25 minimum elong 11871 Apr 15 19:01 1°႘ morning set 11872 Mar 13 15:58 20°χ 3'25 minimum elong 11871 Apr 19 08:01 6°႘ 123' 42' desc. node 11872 Mar 18 20:06 29°χ 11871 Mar 19 04:52 0°γ evening rise 11871 May 02 06:48 26°႘ 11871 May 04 08:26 0° superior conj 11872 Mar 26 07:34 11°γ 11871 May 15 14:40 17° 106'36 -0.7m minimum elong 11872 Mar 26 01:50 11°γ 118γ	morning max cr			10 01 40	Č			1 1032
desc. node	morning set							
morning max el 11872 Feb 26 04:49 25°≈33'02 17°47'30 1872 Feb 29 23:10 0° ★ superior conj 11871 Apr 16 04:15 1°844'28 -1°34'20 morning set 11872 Mar 13 15:58 20° ★33'25 minimum elong 11871 Apr 15 19:01 1°808'04 1°33'42 desc. node 11872 Mar 18 20:06 29° ★23'01 max. Earth dist. 11871 Apr 19 08:01 6° 842'23 1.45578 AU 11872 Mar 19 04:52 0° ❤ evening rise 11871 May 02 06:48 26° 848'52 11871 May 04 08:26 0° 耳 superior conj 11872 Mar 26 07:34 11° ♥49'00 -0°54'47 greatest brilliancy 11871 May 15 14:40 17° 耳06'36 -0.7m minimum elong 11872 Mar 26 01:50 11° ♥25'37 0°54'04	•	•			•			
## Superior conj	desc. Houc	-						170/7/20
superior conj 11871 Apr 16 04:15 1°844'28 -1°34'20 morning set 11872 Mar 13 15:58 20° ¥ 33'25 minimum elong 11871 Apr 15 19:01 1°808'04 1°33'42 desc. node 11872 Mar 18 20:06 29° ¥ 23'01 max. Earth dist. 11871 Apr 19 08:01 6° 842'23 1.45578 AU 11872 Mar 19 04:52 0° Υ evening rise 11871 May 02 06:48 26° 848'52 superior conj 11872 Mar 26 07:34 11° Υ49'00 -0°54'47 greatest brilliancy 11871 May 15 14:40 17° \$\bar{\textsf{1}}06'36\/ \textsf{-0.7m} minimum elong 11872 Mar 26 01:50 11° Υ25'37 0°54'04		110/1 Apr 13 01.48	υ Ο		morning max ei			1/4/30
minimum elong max. Earth dist. 11871 Apr 15 19:01 1°808'04 1°33'42 desc. node 11872 Mar 18 20:06 29° ¥23'01 max. Earth dist. 11871 Apr 19 08:01 6°842'23 1.45578 AU 11872 Mar 19 04:52 0° Υ evening rise 11871 May 02 06:48 26° 848'52 superior conj 11872 Mar 26 07:34 11° Υ49'00 -0°54'47 greatest brilliancy 11871 May 15 14:40 17° \$\mathbb{\pi}\$16'36 -0.7m minimum elong 11872 Mar 26 01:50 11° Υ25'37 0°54'04	superior con:	11971 Apr 16 04:15	101/1/100	1034120	morning set			
max. Earth dist. 11871 Apr 19 08:01 6°842'23 1.45578 AU 11872 Mar 19 04:52 0°Υ evening rise 11871 May 02 06:48 26°848'52 11871 May 04 08:26 0° II superior conj 11872 Mar 26 07:34 11° Υ 49'00 -0°54'47 greatest brilliancy 11871 May 15 14:40 17° II 06'36 -0.7m minimum elong 11872 Mar 26 01:50 11° Υ 25'37 0°54'04		•			-			
evening rise 11871 May 02 06:48 26°848'52 11871 May 04 08:26 0° II superior conj 11872 Mar 26 07:34 11° Y 49'00 -0° 54'47 greatest brilliancy 11871 May 15 14:40 17° II 06'36 -0.7m minimum elong 11872 Mar 26 01:50 11° Y 25'37 0° 54'04	_				uesc. Houe			
11871 May 04 08:26 0° Π superior conj 11872 Mar 26 07:34 11° Υ 49'00 -0°54'47 greatest brilliancy 11871 May 15 14:40 17° Π 06'36 -0.7m minimum elong 11872 Mar 26 01:50 11° Υ 25'37 0°54'04		-	_	1.433/6 AU		110/2 Mai 19 04:32	v i	
greatest brilliancy 11871 May 15 14:40 17° I I 06'36 -0.7m minimum elong 11872 Mar 26 01:50 11° Y °25'37 0°54'04	evening rise	•			gumorior cor:	11972 Mar 26 07:24	1100040100	0054147
		•		0.7				
118/1 May 25 UU:52 U™ max. Earth dist. 118/2 Apr U1 U2:4/ 21 1.44/23 AU	greatest brilliancy	•		-U./M	_			
		110/11/10/10/25 UU:52	0 50		max. darın dist.	110/2 Apr U1 U2:4/	21 † 09721	1.44/23 AU

	11872 Apr 06 17:52	0°B		evening rise	11873 Mar 21 11:55	15° Y 58'38	
evening rise	11872 Apr 10 18:14	6° 8 11'58		Č	11873 Mar 30 16:28	0°8	
	11872 Apr 26 17:01	Π $^{\circ}$ 0		evening max el	11873 Apr 22 05:58	0° Ⅱ 03'45	21°47'24
evening max el	11872 May 09 09:52	16° Ⅱ 17'24	20°34'27		11873 Apr 22 04:29	Π $^{\circ}0$	
asc. node	11872 May 12 09:29	18° Ⅲ 55'45		asc. node	11873 Apr 29 06:45	5° Ⅱ 06'16	
retrograde	11872 May 17 12:45	20° Ⅱ 59'56		retrograde	11873 May 01 10:54	5° Ⅱ 28'44	
evening set	11872 May 21 14:47	19° Ⅲ 24'41		evening set	11873 May 05 23:27	3° Ⅱ 37'53	
inferior conj	11872 May 26 21:22	13° Ⅱ 17'30	3°12'20		11873 May 09 07:17	30° ₹ 8	
minimum elong	11872 May 26 20:39	13° Ⅱ 19'56	3°11'33	inferior conj	11873 May 11 06:07	27° 8 20'10	2°58'50
min. Earth dist.	11872 May 27 12:48	12° Ⅱ 24'23	0.68214 AU	minimum elong	11873 May 11 04:35	27° 8 25'31	2°57'58
morning rise	11872 Jun 01 02:15	6° Ⅱ 58'37		min. Earth dist.	11873 May 11 08:24	27° 8 12'11	0.68708 AU
direct	11872 Jun 06 13:45	4° Ⅲ 33'11		morning rise	11873 May 16 09:32	21° 8 06'21	
desc. node	11872 Jun 14 21:05	8° Ⅲ 35'11		direct	11873 May 21 08:02	18° 8 58'46	
morning max el	11872 Jun 17 15:36	11° Ⅱ 11′03	24°02'46	morning max el	11873 May 31 02:41	24° 8 45'04	22°33'05
	11872 Jul 02 15:42	0 \circ 6		desc. node	11873 Jun 01 18:02	26° 8 28'13	
	11872 Jul 21 21:39	0 ° Ω			11873 Jun 04 19:36	Π °0	
morning set	11872 Jul 23 01:48	2° Ω 00′12			11873 Jun 26 02:08	0 \circ \odot	
max. Earth dist.	11872 Jul 26 19:22	8° Ω 31'34	1.38325 AU	morning set	11873 Jul 03 21:26	12° © 23'56	
		_		max. Earth dist.	11873 Jul 08 17:27	20°526'16	1.40637 AU
superior conj	11872 Aug 03 02:48	21° Ω 59'04			11873 Jul 14 06:01	0 \circ Ω	
minimum elong	11872 Aug 03 06:07	22° Ω 14'50	0°48'10			_	
	11872 Aug 07 06:26	0° m)		superior conj	11873 Jul 16 13:19	4°Ω06'42	
asc. node	11872 Aug 08 09:02	2° m/10'26		minimum elong	11873 Jul 16 19:04	4° Ω 32'40	1°21'47
evening rise	11872 Aug 12 00:32	9° Tp 21'37		asc. node	11873 Jul 26 05:49	22° Ω 04'46	
	11872 Aug 23 12:16	0∘ ⊽		evening rise	11873 Jul 26 15:24	22° Ω 49'54	
evening max el	11872 Aug 28 09:52	6° Ω 05'24	18°59'54		11873 Jul 30 11:22	0° m	
retrograde	11872 Sep 06 04:40	10° 2 28'43		evening max el	11873 Aug 11 15:01	18° Mp 29'09	18°22'30
evening set	11872 Sep 08 01:26	10° Ω 17'38		retrograde	11873 Aug 19 03:27	22° Mp 16'28	
desc. node	11872 Sep 10 18:42	9° £ 25'06	1046100	evening set	11873 Aug 21 06:00	21° Mp 59'24	0002140
inferior conj	11872 Sep 16 09:55	6° Ω 02'10		inferior conj	11873 Aug 28 19:32	17° Mp 23'32	
minimum elong	11872 Sep 16 05:22	6° ♀ 10'06	1°44'20	minimum elong	11873 Aug 28 19:26		0°02'52
min. Earth dist.	11872 Sep 19 07:51	4° 요 01'01 1° 요 14'00	0.56361 AU	transit middle	11873 Aug 28 19:26	17° Mp 23'45	0°02'52
morning rise direct	11872 Sep 24 06:09 11872 Sep 29 18:37	0° £ 02'07		transit begin transit end	11873 Aug 28 15:58 11873 Aug 28 22:54	17° Mp 30'48 17° Mp 16'41	
morning max el	11872 Oct 13 23:15	0 = 02 07 7° Ω 19'18	26°00'36	desc. node	11873 Aug 28 22:34 11873 Aug 28 16:05	17° Mg 30'33	
morning max ci	11872 Oct 30 17:41	0°M	20 00 30	min. Earth dist.	11873 Sep 01 03:22	14° Mp 42'12	0.58316 AU
asc. node	11872 Nov 04 10:22	8°MJ32'02		morning rise	11873 Sep 05 05:21	11° m ₀ 59'12	0.30310710
morning set	11872 Nov 11 00:15	21°M55'33		direct	11873 Sep	10° mg 19'09	
morning sec	11872 Nov 14 17:05	0° ₹		morning max el	11873 Sep 25 17:45	17° m 59'26	27°14'57
	110/21/07 11 1/.00	• •		morning man vi	11873 Oct 05 18:43	0∘ ⊽	2, 1.5,
superior conj	11872 Nov 17 19:39	6° х 53'37	1°36'49	asc. node	11873 Oct 22 07:07	28° ჲ 02'35	
minimum elong	11872 Nov 17 18:44	6° х 48'31	1°37'28		11873 Oct 23 06:28	0° M	
max. Earth dist.	11872 Nov 18 19:34	9° ∡ ¹06'08	1.31717 AU	morning set	11873 Oct 26 08:51	6°M26'08	
evening rise	11872 Nov 24 19:44	22° ∡ °05′17		C			
-	11872 Nov 28 17:08	ರ∘ರ		superior conj	11873 Nov 02 07:22	21°M39'05	1°28'54
desc. node	11872 Dec 07 16:05	16° る 17'42		minimum elong	11873 Nov 02 05:38	21°M29'23	1°29'19
	11872 Dec 16 17:27	0°≈		max. Earth dist.	11873 Nov 02 04:17	21°M21'55	1.31347 AU
evening max el	11872 Dec 26 18:41	11° ≈ 40'55	27°23'58		11873 Nov 06 01:34	0° ∡ ¹	
retrograde	11873 Jan 09 16:25	18° ≈ 58'14		evening rise	11873 Nov 09 01:48	6° ∡ ³31'55	
evening set	11873 Jan 16 15:22	16° ≈ 44'05			11873 Nov 21 06:22	5°0	
min. Earth dist.	11873 Jan 20 09:06	13° ≈ 52'53	0.61535 AU	desc. node	11873 Nov 24 13:12	5° る 21'34	
inferior conj	11873 Jan 23 10:15	11° ≈ 08′27	-2°34'49	evening max el	11873 Dec 08 21:13	23° る 34'20	26°42'44
minimum elong	11873 Jan 23 15:35	10° ≈ 56′26	2°32'06		11873 Dec 18 15:46	0° ≈	
morning rise	11873 Jan 30 18:34	6° ≈ 09'34		retrograde	11873 Dec 22 19:56	0° ≈ 42′23	
asc. node	11873 Jan 31 09:33	5° ≈ 59'44			11873 Dec 26 22:15	30°₹る	
direct	11873 Feb 01 22:33	5° ≈ 49'28		evening set	11873 Dec 29 12:13	28° ろ 50'59	
morning max el	11873 Feb 08 21:28	9° ≈ 20'13	17°51'07	min. Earth dist.	11874 Jan 02 11:20	26° ප 13'40	0.59398 AU
	11873 Feb 22 11:28	0° ∀		inferior conj	11874 Jan 05 15:26	23° る 44'25	
morning set	11873 Feb 24 13:41	3°) (45'45		minimum elong	11874 Jan 05 23:16	23° る 29'01	3°50'26
desc. node	11873 Mar 05 16:43	19°) 58′56		morning rise	11874 Jan 13 13:10	19° る 06'13	
				direct	11874 Jan 15 15:13	18° る 50'25	
superior conj	11873 Mar 07 11:10	23°) €01'56		asc. node	11874 Jan 18 06:45	19°る17'08	
minimum elong	11873 Mar 07 09:56	22°) ₹56'38	0°13'16	morning max el	11874 Jan 23 09:26	22° ⋜ 40'57	18°13'58
behind sun begin	11873 Mar 07 05:08	22°) (36'04			11874 Jan 29 03:04	0°≈	
behind sun end	11873 Mar 07 14:44	23°) €17'11		morning set	11874 Feb 08 02:14	17°≈38'47	
F d F :	11873 Mar 11 14:09	0°Υ 5°W11126	1 42220 433		11874 Feb 14 16:10	0°) €	
max. Earth dist.	11873 Mar 14 17:45	3 i 11726	1.43239 AU				

minimum elong	11876 Jan 15 01:49	2° ≈ 29'31	1°15'25	superior conj	11876 Dec 28 20:50	16° ⋜ 31'06	1°29'40
max. Earth dist.	11876 Jan 20 18:06	2 ∞2931 13°≈32'36	1.36886 AU	minimum elong	11876 Dec 28 22:46	16°る1'00	1°30'17
evening rise	11876 Jan 24 12:15	20°≈28'37	1.50000 AC	max. Earth dist.	11877 Jan 02 05:16	25° 3 25'23	1.34910 AU
desc. node	11876 Jan 25 06:43	20 ≈ 2037 21° ≈ 51'33		max. Lartii dist.	11877 Jan 04 12:57	0° ≈	1.54710 AC
dese. Hode	11876 Jan 29 23:08	0° ∺		evening rise	11877 Jan 06 09:32	3°≈34'15	
	11876 Feb 19 00:50	0° Υ		desc. node	11877 Jan 11 03:32	12°≈18'14	
evening max el	11876 Feb 29 01:12	11° Υ 33'09	25°40'58	dese. Hode	11877 Jan 21 20:33	0° ₩	
retrograde	11876 Mar 12 10:55	18° Υ 41'32	25 40 50	evening max el	11877 Feb 10 14:47	25°) 18′24	26°41'07
evening set	11876 Mar 18 10:30	16° Υ 13'45		evening max er	11877 Feb 16 07:17	0°Υ	20 41 07
asc. node	11876 Mar 19 22:44	14° Υ 48'52		retrograde	11877 Feb 23 17:33	2° Υ 40'29	
min. Earth dist.	11876 Mar 17 22:44 11876 Mar 22 17:34	11° Υ 34'42	0.67478 AU	evening set	11877 Mar 02 03:46	0° Υ 07'51	
inferior conj	11876 Mar 24 04:15	9° Υ 44'21	1°18'40	evening set	11877 Mar 02 07:38	30°R ₩	
minimum elong	11876 Mar 24 02:30	9° Υ 49'54	1°17'59	min. Earth dist.	11877 Mar 06 05:03	26° ₩ 02'51	0.66239 AU
morning rise	11876 Mar 29 19:03	3° Υ '53'58	1 17 37	asc. node	11877 Mar 06 20:06	25°) 18'42	0.00237710
direct	11876 Apr 02 04:04	2° Υ 48'44		inferior conj	11877 Mar 08 03:44	23°) (44'36	0°25'27
morning max el	11876 Apr 08 23:51	6° Υ 31'12	18°59'07	minimum elong	11877 Mar 08 03:03	23°) (46'37	
desc. node	11876 Apr 22 08:24	24° Υ 23'50	10 37 07	morning rise	11877 Mar 14 03:29	18° ¥ 05'05	0 23 21
greatest brilliancy	11876 Apr 22 09:32	24° Υ 28'07	-0.8m	direct	11877 Mar 17 02:06	17° ¥ 17′02	
greatest billiancy	11876 Apr 26 00:28	0° 8	-0.8111	morning max el	11877 Mar 23 12:46	20°\(\frac{1}{42}\)'13	18°17'48
morning set	11876 May 01 22:12	9° 8 07'38		morning max ci	11877 Mar 30 20:39	20 γ (42 13	10 17 40
morning set	11876 May 01 22:12 11876 May 15 08:00	9°П		desc. node	11877 Apr 09 05:04	14° Υ 32'46	
max. Earth dist.	11876 May 16 01:44	1° Ⅱ 09'28	1.45433 AU	morning set	11877 Apr 03 03:04 11877 Apr 12 03:15	19° Y 13'08	
max. Earth dist.	116/0 May 10 01.44	1 Д0928	1.43433 AU	morning set	11877 Apr 12 03:13	0° 8	
superior conj	11876 May 18 08:38	4° Ⅱ 45'04	2011/25		110// Apr 10 21.40	0.0	
minimum elong	11876 May 18 05:22	4° ∏ 32'15		superior conj	11877 Apr 27 15:33	13° 8 44'54	1052'52
evening rise	11876 Jun 02 07:16	28° Ⅱ 40'05	2 12 12	minimum elong	11877 Apr 27 15:33	_	1°52'40
evening rise	11876 Jun 03 02:56	28 п 4003		max. Earth dist.	11877 Apr 28 20:54		1.45739 AU
asc. node	11876 Jun 15 20:33	20°9513'04		max. Earth dist.	11877 May 08 01:28	0° Ⅱ	1.43/39 AU
evening max el	11876 Jun 22 05:41	28°9517'33	18°26'49	evening rise	11877 May 13 15:07	8° Ⅱ 42'05	
evening max ci	11876 Jun 24 04:30	28 3 1733	18 20 49	greatest brilliancy	11877 May 24 08:14	25° ∏ 21'45	-0.8m
retrograde	11876 Jun 28 16:15	1° Ω 45'32		greatest orimancy	11877 May 27 10:09	0°95	-0.8111
evening set	11876 Jul 01 18:49	0° Ω 51'38		asc. node	11877 Jun 02 17:38	8° 9 341'59	
evening set	11876 Jul 03 01:15	30°RS		evening max el	11877 Jun 05 15:41	11°959'03	19°04'13
inferior conj	11876 Jul 07 13:19	25°\$20'12	2051/51	retrograde	11877 Jun 12 12:07	11 \$3903 15°\$47'15	19 04 13
minimum elong	11876 Jul 07 15:19	25°5014'12	2°50'44	evening set	11877 Jun 15 23:18	13 994713 14°937'36	
min. Earth dist.	11876 Jul 09 18:05	23 3 14 12 22° 3 43'56	0.64836 AU	inferior conj	11877 Jun 21 10:47	8°951'19	3°10'35
morning rise	11876 Jul 13 10:42	19°500'03	0.04630 AU	minimum elong	11877 Jun 21 11:46	8°9548'11	3°09'42
desc. node	11876 Jul 19 08:07	16°9521'01		min. Earth dist.	11877 Jun 23 00:44	6°5549'49	0.66498 AU
	11876 Jul 19 08:07	16°9519'29			11877 Jun 26 23:36	0 994949 2°9528'46	0.00498 AU
direct		16 91929 24°917'29	27917126	morning rise	11877 Jul 20 23.30 11877 Jul 01 09:30	2 ≥328 40 30°R∏	
morning max el	11876 Aug 02 13:41 11876 Aug 07 17:03	24 3 1729 0° Ω	2/ 1/30	direct	11877 Jul 01 09.30 11877 Jul 03 05:16	30 KII 29°II46′54	
	•	0° m y		direct	11877 Jul 05 03:16	29 Д 46 34	
mamina aat	11876 Aug 28 03:08	0 iny 18° Mo}00'45		desc. node	11877 Jul 03 02.46 11877 Jul 06 05:20	0°©18'55	
morning set max. Earth dist.	11876 Sep 06 23:43		1 22275 ATT		11877 Jul 16 00:32	0 91833 7°925'30	26914141
asc. node	11876 Sep 11 11:53	27° Mp 02'32	1.33275 AU	morning max el		7 3 23 30 0° Ω	20 1441
asc. node	11876 Sep 11 21:13	27° ™ 50'33 0° ⊆			11877 Aug 02 13:40		
	11876 Sep 12 22:10	0-22		marning gat	11877 Aug 20 13:13	0° Mp	
aumariar aani	11076 Can 15 06:20	40 0 57122	0022120	morning set max. Earth dist.	11877 Aug 21 00:02	0° Mp 50'14	1.34937 AU
superior conj	11876 Sep 15 06:38 11876 Sep 15 05:05	4° ♀ 57'22 4° ♀ 49'10	0°32'29 0°32'11	asc. node	11877 Aug 24 21:04	8° Mp 13'18 17° Mp 56'31	1.5495 / AU
minimum elong	11876 Sep 13 03:03		0 32 11	asc. node	11877 Aug 29 17:54	17 113031	
evening rise	1	20° ₽ 13'19			11077 A 20 02-21	100 m 44140	0902140
	11876 Sep 27 03:26	0°M	22012127	superior conj	11877 Aug 30 03:21	18° M) 44'48	0°03'49
evening max el	11876 Oct 13 14:16	24°M57'00	22°12′36	minimum elong	11877 Aug 30 03:08	18° Mp 43'45	0°03'31
desc. node	11876 Oct 15 05:00	26°M26'12		behind sun begin	11877 Aug 29 21:17	18° m 13'49	
	11876 Oct 20 14:30	0° √ 1		behind sun end	11877 Aug 30 08:59	19° m 13'45	
retrograde	11876 Oct 26 09:04	1° х 18'16			11877 Sep 04 13:17	0° 亞	
evening set	11876 Oct 29 16:36	0° ∡ 753′56		evening rise	11877 Sep 06 18:20	4° £ 36'37	
: £:	11876 Nov 01 10:58	30°RM	5940121		11877 Sep 20 21:13	0°M	20042111
inferior conj	11876 Nov 07 11:25	26°M55'54		evening max el	11877 Sep 25 11:27	5°M25'30	20°42'11
minimum elong	11876 Nov 07 06:03	27°M03'27		desc. node	11877 Oct 02 02:24	10°M05'47	
min. Earth dist.	11876 Nov 06 20:20	27° M ₊17'07	0.54721 AU	retrograde	11877 Oct 06 20:08	11°M03'53	
morning rise		220m 00		ovening sot	11V:77/Oot 00 01:42	10°M51'46	
•	11876 Nov 15 20:52	23°M08'49		evening set	11877 Oct 09 01:43		
direct	11876 Nov 15 20:52 11876 Nov 19 06:24	22°M43'05		inferior conj	11877 Oct 18 03:23	6°M56'46	
•	11876 Nov 15 20:52 11876 Nov 19 06:24 11876 Dec 01 05:26	22°M43'05 28°M23'52	21°33'38	inferior conj minimum elong	11877 Oct 18 03:23 11877 Oct 17 17:23	6°M56'46 7°M11'06	4°32'21
direct morning max el	11876 Nov 15 20:52 11876 Nov 19 06:24 11876 Dec 01 05:26 11876 Dec 02 19:48	22°M43'05 28°M23'52 0°⊀	21°33'38	inferior conj minimum elong min. Earth dist.	11877 Oct 18 03:23 11877 Oct 17 17:23 11877 Oct 19 03:52	6°M56'46 7°M11'06 6°M21'38	
direct	11876 Nov 15 20:52 11876 Nov 19 06:24 11876 Dec 01 05:26 11876 Dec 02 19:48 11876 Dec 08 22:03	22°M43'05 28°M23'52 0°×7 7°×748'04	21°33'38	inferior conj minimum elong min. Earth dist. morning rise	11877 Oct 18 03:23 11877 Oct 17 17:23 11877 Oct 19 03:52 11877 Oct 26 08:54	6°M56'46 7°M11'06 6°M21'38 2°M59'24	4°32'21
direct morning max el	11876 Nov 15 20:52 11876 Nov 19 06:24 11876 Dec 01 05:26 11876 Dec 02 19:48	22°M43'05 28°M23'52 0°⊀	21°33'38	inferior conj minimum elong min. Earth dist.	11877 Oct 18 03:23 11877 Oct 17 17:23 11877 Oct 19 03:52	6°M56'46 7°M11'06 6°M21'38	4°32'21 0.54644 AU

asc. node	11877 Nov 25 19:00	26°M₊00'09			11878 Nov 03 15:01	0°M	
	11877 Nov 28 01:30	0° ∡ ¹		asc. node	11878 Nov 12 15:53	14° M 50'07	
morning set	11877 Dec 06 03:30	16° х 06′49			11878 Nov 20 05:39	0°⊀	
	11877 Dec 12 13:43	8°0		morning set	11878 Nov 20 15:14	0° ∡ 751'17	
superior conj	11877 Dec 13 01:29		1°37'24	superior conj	11878 Nov 27 10:30	15° ∡ ⁴45'36	1°38'44
minimum elong	11877 Dec 13 02:18	1° る 07'49	1°38'10	minimum elong	11878 Nov 27 10:10	15° ∡ ′43'48	1°39'30
max. Earth dist.	11877 Dec 16 00:13	7° る 20'26	1.33312 AU	max. Earth dist.	11878 Nov 29 02:44	19° ∡ 26′16	1.32168 AU
evening rise	11877 Dec 20 19:49	17°る12'17			11878 Dec 04 01:28	0°る	
	11877 Dec 27 14:19	0°≈		evening rise	11878 Dec 04 15:52	1°る14'26 22°る24'14	
desc. node	11877 Dec 29 00:25 11878 Jan 16 06:08	2° ≈ 31'12 0°) €		desc. node	11878 Dec 15 21:24 11878 Dec 20 12:57	22° 6 24°14 0° ≈	
evening max el	11878 Jan 16 06:08 11878 Jan 24 04:04	8° ∺ 48'25	27°20'23	evening max el	11879 Jan 06 15:12	0°≈ 21°≈50'28	27021152
retrograde	11878 Feb 06 17:48	6 X 48 23 16° ¥ 13'14	27 20 23	retrograde	11879 Jan 20 10:45	21 ≈30 28 29°≈10'52	27 31 32
evening set	11878 Feb 13 12:27	13° H 41'49		evening set	11879 Jan 27 09:57	29 ≈10 32 26°≈48'03	
min. Earth dist.	11878 Feb 17 09:10	10° X 09'02	0.64639 AU	min. Earth dist.	11879 Jan 31 03:51	23°≈43'44	0.62738 AU
inferior conj	11878 Feb 19 19:26	7°) (31'41		inferior conj	11879 Feb 03 00:26	20°≈58'12	
minimum elong	11878 Feb 19 20:34	7° ¥ 28'37	0°36'54	minimum elong	11879 Feb 03 04:07	20°≈49'18	1°48'01
asc. node	11878 Feb 21 17:28	5° ¥ 30′51	0 300.	asc. node	11879 Feb 08 14:47	16°≈26'19	1 1001
morning rise	11878 Feb 26 06:30	2°) 05'23		morning rise	11879 Feb 10 00:42	15° ≈ 48'19	
direct	11878 Feb 28 20:17	1°) €31'02		direct	11879 Feb 12 07:41	15° ≈ 23'56	
morning max el	11878 Mar 07 05:29	4°) € 50'14	17°53'29	morning max el	11879 Feb 18 23:05	18° ≈ 47'23	17°46'43
C	11878 Mar 24 02:44	0° Υ		C	11879 Feb 27 04:11	0° ∀	
morning set	11878 Mar 24 13:12	0° Y 43'42		morning set	11879 Mar 06 23:43	13°) 24'41	
desc. node	11878 Mar 27 01:41	4° Y 55'31		desc. node	11879 Mar 13 22:16	25°) €27'39	
					11879 Mar 16 14:24	0° Y	
superior conj	11878 Apr 07 07:10	23° Y 14'14	-1°18'16				
minimum elong	11878 Apr 06 23:01		1°17'32	superior conj	11879 Mar 18 20:27	3° Y 46'25	
max. Earth dist.	11878 Apr 11 16:35	0° 8 12'10	1.45299 AU	minimum elong	11879 Mar 18 16:44	3° Y 30'55	0°36'28
	11878 Apr 11 13:30	$0^{\circ}S$		max. Earth dist.	11879 Mar 25 10:23	14° Y 31'30	1.44165 AU
evening rise	11878 Apr 23 05:54	18° 8 08'13		evening rise	11879 Apr 02 18:09	27° Y 36'44	
	11878 May 01 00:55	0°Щ			11879 Apr 04 07:25	0°B	
greatest brilliancy	11878 May 08 02:02	10° Ⅱ 28'34			11879 Apr 24 21:52	0°П	
evening max el	11878 May 19 20:39	25° Ⅱ 43'59	19°57'37	evening max el	11879 May 02 19:49	9° ∏ 29'25	21°04'25
asc. node	11878 May 20 14:47	26° Ⅱ 28'09		asc. node	11879 May 07 11:59	13° Ⅱ 17'49	
	11878 May 26 14:36	0°ഇ 0° ഇ 03'45		retrograde	11879 May 11 09:09	14° Ⅲ 29'15 12° Ⅲ 47'03	
retrograde	11878 May 27 10:28 11878 May 28 06:02	0 3 03 43		evening set inferior conj	11879 May 15 15:40 11879 May 20 22:01	6° П 35'11	3°07'54
evening set	11878 May 31 06:55	30 KII 28°II37'44		minimum elong	11879 May 20 22:01 11879 May 20 20:55	6°Д38'58	3°07'05
inferior conj	11878 Jun 05 14:31	28 H 3744 22° H 37'53	3°15'12	min. Earth dist.	11879 May 20 20:33	6° П 01'32	0.68480 AU
minimum elong	11878 Jun 05 14:23	22° ∏ 38'19	3°14'25	morning rise	11879 May 26 01:58	0° П 18'32	0.00 1 00 AC
min. Earth dist.	11878 Jun 06 13:56	21° I 18'52	0.67721 AU	11101111119 1100	11879 May 26 10:34	30°R₩	
morning rise	11878 Jun 10 21:31	16° Ⅱ 17'08	0.07721110	direct	11879 May 31 08:01	28° 8 00'18	
direct	11878 Jun 16 16:16	13° Ⅱ 43'31			11879 Jun 05 20:24	0°Ⅱ	
desc. node	11878 Jun 23 02:27	16° Ⅱ 09′26		desc. node	11879 Jun 09 23:27	3° Ⅱ 24'10	
morning max el	11878 Jun 28 10:32	20° Ⅱ 46'49	24°53'44	morning max el	11879 Jun 10 20:34	4° Ⅱ 16'11	23°24'31
	11878 Jul 06 09:01	0 \circ \odot			11879 Jun 30 14:18	0 \circ \odot	
	11878 Jul 26 18:20	0 $^{\circ}\Omega$		morning set	11879 Jul 15 17:38	23° © 54'34	
morning set	11878 Aug 03 07:41	12° Ω 52'35			11879 Jul 19 07:17	$0^{\circ}\Omega$	
max. Earth dist.	11878 Aug 06 21:33	19° Ω 19'51	1.37014 AU	max. Earth dist.	11879 Jul 19 19:03	0° Ω 51′03	1.39315 AU
	11878 Aug 12 13:02	0° ™					
				superior conj	11879 Jul 27 10:19	14° Ω 35'50	
superior conj	11878 Aug 13 13:52	2°Mp01'05		minimum elong	11879 Jul 27 14:43	14° Ω 56′21	1°02'35
minimum elong	11878 Aug 13 15:44	2° To 10'14	0°28'40	asc. node	11879 Aug 03 11:20	27° Ω 59'57	
asc. node	11878 Aug 16 14:37	8° Mp 01'09			11879 Aug 04 12:08	0° my	
evening rise	11878 Aug 21 22:30	18° Mp 45'07		evening rise	11879 Aug 05 19:11	2° m/30'14	10041106
avanie 1	11878 Aug 27 16:39	0° ი	10021101	evening max el	11879 Aug 21 22:01	28° Mp 38′05 0° <u>₽</u>	18°41'26
evening max el retrograde	11878 Sep 07 22:31 11878 Sep 17 14:39	16° £ 38'58 21° £ 28'07	19°31'01	retrograde	11879 Aug 23 10:05 11879 Aug 30 02:35	0° 11 2° 1 44'41	
desc. node	11878 Sep 17 14:39 11878 Sep 18 23:49	21° £ 2807 21° £ 22'36		evening set	11879 Sep 01 01:21	2° £ 4441 2° £ 31'32	
evening set	11878 Sep 18 23.49	21° 2 2236 21° 2 18'15		desc. node	11879 Sep 01 01.21 11879 Sep 05 21:15	2 ≗ 31 32 0° ჲ 21'38	
inferior conj	11878 Sep 28 04:55	17° £ 12'39	-2°51'09	dese. Houe	11879 Sep 05 21:15	0 ==21 38 30°RM)	
minimum elong	11878 Sep 27 21:26	17° ⊆ 1239	2°48'13	inferior conj	11879 Sep 00 10:53	28° Mp 07'10	-1°00'04
min. Earth dist.	11878 Sep 30 14:09	15° Ω 41'33	0.55506 AU	minimum elong	11879 Sep 08 23:25	28° Mp 11'44	
morning rise	11878 Oct 06 05:32	12° Ω 46'28		min. Earth dist.	11879 Sep 12 05:36	25° mp 47'04	0.57135 AU
direct	11878 Oct 11 07:29	11° Ω 48'43		morning rise	11879 Sep 16 18:06	23° m 03'08	
morning max el	11878 Oct 25 06:03		25°05'17	direct	11879 Sep 22 13:44	21° m/39'57	
<i>5</i>					1		

morning max el	11879 Oct 06 20:41	29° m)07'19	26°36'11	morning rise	11880 Aug 28 01:06	4° m/09'08	
C	11879 Oct 07 18:02	0∘ ⊽		direct	11880 Sep 03 10:02	2° m/ 17'05	
	11879 Oct 28 08:47	0° M		morning max el	11880 Sep 17 18:34	10° m 05'30	27°36'05
asc. node	11879 Oct 30 12:39	4° ™ 07'48			11880 Oct 03 03:47	0∘ ত	
morning set	11879 Nov 05 01:29	15°M28'06		asc. node	11880 Oct 16 09:23	23° ≏ 45'35	
				morning set	11880 Oct 19 08:29	29° ჲ 52'26	
superior conj	11879 Nov 11 21:45	0° ∡ ³31′06	1°34'08		11880 Oct 19 09:55	0° M	
minimum elong	11879 Nov 11 20:27	0° ≯ 23'51	1°34'43				
	11879 Nov 11 16:10	0° ∡ ¹		superior conj	11880 Oct 26 09:23	15° M ₊14'17	1°23'51
max. Earth dist.	11879 Nov 12 10:14	1° ∡ ¹40'33	1.31504 AU	minimum elong	11880 Oct 26 07:24	15°ML03'14	1°24'09
evening rise	11879 Nov 18 18:56	15° ∡ ³33′26		max. Earth dist.	11880 Oct 25 19:09		1.31335 AU
	11879 Nov 26 00:29	0°ප		evening rise	11880 Nov 02 02:43	0° ₹ 03′10	
desc. node	11879 Dec 02 18:28	11° る 49'07			11880 Nov 02 02:08	0° ∡ ⊓	
	11879 Dec 15 20:53	0° ≈			11880 Nov 18 06:33	0°ಕ	
evening max el	11879 Dec 19 21:30	4°≈11'22	27°10'32	desc. node	11880 Nov 18 15:38	0° る 34'28	
retrograde	11880 Jan 02 19:33	11° ≈ 24'30		evening max el	11880 Nov 30 20:25	15°る41'29	26°14'57
evening set	11880 Jan 09 17:00	9°≈18'44		retrograde	11880 Dec 14 18:51	22°る46'28	
min. Earth dist.	11880 Jan 13 11:55	6°≈35'18	0.60634 AU	evening set	11880 Dec 21 05:24	21°る06'41	0.50500.444
inferior conj	11880 Jan 16 15:21	3°≈55'20		min. Earth dist.	11880 Dec 25 09:42	18° ろ 31'09	0.58502 AU
minimum elong	11880 Jan 16 21:52 11880 Jan 21 23:58		3°05'22	inferior conj	11880 Dec 28 12:37	16°る12'55 15°る57'28	-4°25'36 4°22'27
		30°Rる 29°る05'07		minimum elong	11880 Dec 28 20:58	13° る 3728 11° る 44'38	4-22-27
morning rise direct	11880 Jan 24 05:35 11880 Jan 26 08:21	29 3 03 07 28° 3 47'12		morning rise direct	11881 Jan 05 15:18 11881 Jan 07 17:57	11 844 38 11° る 29'42	
asc. node	11880 Jan 26 12:02	28°る47'12 28°る47'18		asc. node	11881 Jan 12 09:14	11 3 2942 12° 3 46'24	
asc. Houc	11880 Jan 30 12:28	28 ○ 47 18 0° ≈		morning max el	11881 Jan 15 23:10		18°30'02
morning max el	11880 Feb 02 14:14	0	17°58'25	morning max cr	11881 Jan 26 00:30	0°≈	10 30 02
morning set	11880 Feb 18 04:25	26°≈56'32	17 30 23	morning set	11881 Jan 31 21:47	11° ≈ 02'04	
morning set	11880 Feb 19 20:20	0° ∺		morning set	11001 3411 31 21.47	11 70.02 04	
	11000100 19 20:20	٠,٨		superior conj	11881 Feb 09 21:50	28° ≈ 09'44	0°36'43
superior conj	11880 Feb 28 10:26	15° ¥ 28'35	0°02'45	minimum elong	11881 Feb 10 00:14	28° ≈ 20'50	0°36'50
minimum elong	11880 Feb 28 10:42	15°) 29'44	0°03'00		11881 Feb 10 21:45	0° ∀	
behind sun begin	11880 Feb 28 02:46	14°) (54'58		desc. node	11881 Feb 14 15:31	6°) 44'55	
behind sun end	11880 Feb 28 18:37	16°) €04'24		max. Earth dist.	11881 Feb 17 08:21	11° ¥ 28'41	1.40366 AU
desc. node	11880 Feb 28 18:54	16° ¥ 05'40		evening rise	11881 Feb 21 14:43	18°) 42′07	
max. Earth dist.	11880 Mar 06 23:56	28° ¥ 21′21	1.42455 AU		11881 Feb 28 15:11	0° Y	
	11880 Mar 07 23:52	0 ° Υ			11881 Mar 21 21:07	9° 8	
evening rise	11880 Mar 12 18:28	7° Y ′42'36		evening max el	11881 Mar 28 04:38	7° 8 04'51	23°41'22
	11880 Mar 27 11:38	9° 8		retrograde	11881 Apr 08 01:09	13° 8 28'37	
evening max el	11880 Apr 14 13:53	23° 8 16'06	22°20'43	asc. node	11881 Apr 10 06:35	13° 8 05'35	
asc. node	11880 Apr 23 09:15	28° 8 55'47		evening set	11881 Apr 13 06:03	11° 8 17'28	
retrograde	11880 Apr 24 06:32	28° 8 59'32		min. Earth dist.	11881 Apr 18 00:43	5° 8 42'33	0.68613 AU
evening set	11880 Apr 28 23:54	27° 8 02'02		inferior conj	11881 Apr 18 16:14	4° 8 49'23	2°22'16
inferior conj	11880 May 04 07:14	20° 8 40'25	2°50'03	minimum elong	11881 Apr 18 14:06	4° 8 56'44	2°21'19
minimum elong	11880 May 04 05:26	20° 8 46'40	2°49'08		11881 Apr 22 13:08	30° ₹ Υ	
min. Earth dist.	11880 May 04 04:01	20° 8 51'37	0.68775 AU	morning rise	11881 Apr 23 22:08	28° Y ′45′04	
morning rise	11880 May 09 10:50	14° 8 29'20		direct	11881 Apr 28 01:57	27° Y 07'38	
direct	11880 May 14 03:38	12° 8 30'40	21056110		11881 May 04 06:46	0°8	20026124
morning max el	11880 May 23 09:22		21°56'19	morning max el	11881 May 06 03:55	1°843'32 10°842'46	20°36'34
desc. node	11880 May 26 20:21 11880 Jun 02 09:23	21° 8 41′04 0° Ⅱ		desc. node	11881 May 13 17:10	0°Ⅱ	
	11880 Jun 22 16:44	0. о п		morning set	11881 May 27 03:45 11881 Jun 04 11:03	0 <u>II</u> 12° II 40'19	
morning set	11880 Jun 25 02:06	3°5548'06		max. Earth dist.	11881 Jun 13 02:16		1.43522 AU
max. Earth dist.	11880 Jun 30 19:31	13°908'59	1.41575 AU	max. Earth dist.	11881 Jun 15 08:52	0°95	1.43322 AO
max. Darm dist.	11000 Juli 30 17.31	15 300 57	1.41373710		11001 3411 13 00.32	0 3	
superior conj	11880 Jul 08 12:21	26°519'40	-1°35'12	superior conj	11881 Jun 19 15:51	7° 5 04'23	-2°00'55
minimum elong	11880 Jul 08 18:51	26°548'16		minimum elong	11881 Jun 19 22:00	7°930'02	
	11880 Jul 10 14:05	0°N		evening rise	11881 Jul 01 22:48	28° © 12'38	
evening rise	11880 Jul 19 04:47	15° Ω 43'07		<i>y</i>	11881 Jul 02 23:14	0°N	
asc. node	11880 Jul 20 08:07	17° Ω 49'18		asc. node	11881 Jul 07 05:00	7° Ω 24'39	
	11880 Jul 27 03:33	0° m/		evening max el	11881 Jul 18 19:10	24° Ω 22'22	18°03'40
evening max el	11880 Aug 04 06:13	11° mp 15'43	18°12'44	retrograde	11881 Jul 25 07:54	27° Ω 44'26	
retrograde	11880 Aug 11 09:23	14° m 52'43		evening set	11881 Jul 27 21:35	27° Ω 12'39	
evening set	11880 Aug 13 15:00	14° m 32'01		inferior conj	11881 Aug 03 10:36	22° Q 08'25	1°45'42
inferior conj	11880 Aug 20 20:36	9° m 47'13	0°34'51	minimum elong	11881 Aug 03 13:09	22° Q 02'00	1°44'21
minimum elong	11880 Aug 20 21:44	9° m 44'44	0°34'04	min. Earth dist.	11881 Aug 06 12:01	19° Ω 06′01	0.61534 AU
desc. node	11880 Aug 22 18:39	8°M 06'30		desc. node	11881 Aug 09 16:00	16° Ω 24'28	
min. Earth dist.	11880 Aug 24 04:27	6° Mp 54′44	0.59249 AU	morning rise	11881 Aug 10 02:11	16° Ω 06'31	

direct	11881 Aug 16 18:04	13° Ω 48'43		morning rise	11882 Jul 23 19:21	28°5546'59	
morning max el	11881 Aug 30 23:04	21° Ω 48'56	27°57'51	desc. node	11882 Jul 27 13:20	26°5540'49	
	11881 Sep 07 03:02	0° m		direct	11882 Jul 30 11:23	26° © 11'52	
	11881 Sep 26 06:41	0∘ ⊽			11882 Aug 08 13:59	$0 {\circ} \Omega$	
morning set	11881 Oct 03 10:19	13° ≙ 59'07		morning max el	11882 Aug 13 08:00	4° Ω 13′26	27°41'51
asc. node	11881 Oct 03 06:06	13° ≏ 37'24			11882 Sep 01 17:30	0° m ∕	
max. Earth dist.	11881 Oct 09 01:46	26° ♀ 00'05	1.31677 AU	morning set	11882 Sep 17 04:36	27° Mp 41'20	
					11882 Sep 18 08:13	0∘ ত	
superior conj	11881 Oct 10 19:34	29° ≏ 49'44	1°08'04	asc. node	11882 Sep 20 02:47	3° ₽ 37'44	
minimum elong	11881 Oct 10 17:19	29° ₽ 37'19	1°08'03	max. Earth dist.	11882 Sep 22 02:20	7° ≏ 46'09	1.32545 AU
	11881 Oct 10 21:26	0° M.					
evening rise	11881 Oct 17 13:14	14° M 38'17		superior conj	11882 Sep 25 02:19	14° ≏ 10'58	0°46'58
	11881 Oct 25 02:43	0° ∡ ¹		minimum elong	11882 Sep 25 00:20	14° ≏ 00'14	0°46'42
desc. node	11881 Nov 05 12:52	18° ≯ 25′03		evening rise	11882 Oct 02 00:35	29° ≏ 12'43	
evening max el	11881 Nov 12 11:20	26° х 22′06	24°50'27		11882 Oct 02 09:26	0° M	
	11881 Nov 16 21:39	ರ°ರ			11882 Oct 19 06:09	0° ∡ ¹	
retrograde	11881 Nov 26 06:34	3° る 16'45		desc. node	11882 Oct 23 10:12	4° ₹ 59'14	
evening set	11881 Dec 01 18:47	2° る 08'59		evening max el	11882 Oct 24 21:43	6° ∡ ¹29'35	23°10'17
	11881 Dec 05 23:47	30°₽ ⋌ ¹		retrograde	11882 Nov 07 04:58	13° ₹ 06'41	
min. Earth dist.	11881 Dec 06 23:08	29° ∡¹ 24'03	0.56589 AU	evening set	11882 Nov 11 08:44	12° ₹ 29'10	
inferior conj	11881 Dec 09 13:40	27° ∡¹ 43'28	-5°27'03	min. Earth dist.	11882 Nov 18 07:09	9° ∡ 16′27	0.55190 AU
minimum elong	11881 Dec 09 20:17	27° х 32′46	5°25'13	inferior conj	11882 Nov 19 19:01	8° ҂ 24'37	-5°51'18
morning rise	11881 Dec 17 23:58	23° х 36'42		minimum elong	11882 Nov 19 18:39	8° ҂ 25′09	5°50'35
direct	11881 Dec 20 09:00	23° ҂ ¹20'56		morning rise	11882 Nov 28 06:11	4° ₹ 34'13	
morning max el	11881 Dec 29 21:54	27° х 56′01	19°23'28	direct	11882 Dec 01 05:26	4° х 13′16	
asc. node	11881 Dec 30 06:23	28° ∡ 16'47		morning max el	11882 Dec 12 07:04	9° ∡ ¹28'40	20°40'01
	11881 Dec 31 20:48	0°₹		asc. node	11882 Dec 17 03:27	15° ∡ 02'08	
morning set	11882 Jan 15 23:46	25° ට 29'50			11882 Dec 26 05:13	0°ප	
5 - 5	11882 Jan 18 05:38	0° ≈		morning set	11882 Dec 31 07:16	10° ට 10'26	
				. 8			
superior conj	11882 Jan 24 01:55	11° ≈ 36'46	1°03'14	superior conj	11883 Jan 07 18:17	25° る 36'57	1°22'06
minimum elong	11882 Jan 24 04:51	11° ≈ 51'03	1°03'28	minimum elong	11883 Jan 07 20:44	25° る 49'28	1°22'36
max. Earth dist.	11882 Jan 30 14:28	23° ≈ 55'56	1.38143 AU		11883 Jan 09 22:20	0° ≈	
desc. node	11882 Feb 01 12:14	27° ≈ 22'30		max. Earth dist.	11883 Jan 12 22:50	5°≈56'49	1.36013 AU
	11882 Feb 02 23:48	0° ∀		evening rise	11883 Jan 16 20:18	13°≈18'40	
evening rise	11882 Feb 03 08:11	0°) 36′46		desc. node	11883 Jan 19 09:01	17° ≈ 54'14	
C	11882 Feb 21 21:44	0 $^{\circ}$ $\mathbf{\Upsilon}$			11883 Jan 26 11:05	0° ∀	
evening max el	11882 Mar 10 18:15	20° Y 56′05	24°59'45		11883 Feb 16 20:12	$_{0}$ $^{\circ}$ Υ	
retrograde	11882 Mar 22 15:45	27° Ƴ 50'58		evening max el	11883 Feb 21 07:53	4° Ƴ 45'59	26°08'40
evening set	11882 Mar 28 08:31	25° Y 28'33		retrograde	11883 Mar 06 01:22	12° Ƴ 00'43	
asc. node	11882 Mar 28 03:56	25° Ƴ 38′07		evening set	11883 Mar 12 05:42	9° Ƴ 30'27	
min. Earth dist.	11882 Apr 01 19:32	20° Y 29′05	0.68017 AU	asc. node	11883 Mar 15 01:19	6° Ƴ 43'13	
inferior conj	11882 Apr 02 23:09	18° Ƴ 58'16	1°44'45	min. Earth dist.	11883 Mar 16 10:17	5° Ƴ 05'59	0.67004 AU
minimum elong	11882 Apr 02 21:07	19° Ƴ 05'00	1°43'54	inferior conj	11883 Mar 18 02:01	3° Y 03'09	0°57'21
morning rise	11882 Apr 08 09:58	13° Y '02'09		minimum elong	11883 Mar 18 00:38	3° Ƴ 07'25	0°56'52
direct	11882 Apr 12 01:35	11° Y 45'32			11883 Mar 20 16:13	30° ₹ ₩	
morning max el	11882 Apr 19 06:04	15° Ƴ 43'42	19°30'08	morning rise	11883 Mar 23 20:19	27°) 17′01	
	11882 Apr 30 09:12	0°8		direct	11883 Mar 27 00:50	26° ℋ 19'18	
desc. node	11882 Apr 30 13:55	0° 8 17'05		morning max el	11883 Apr 02 15:35	29° ℋ 52'35	18°39'26
greatest brilliancy	11882 May 01 22:35	2° 8 16'39	-0.7m		11883 Apr 02 18:36	$0^{\circ}\mathbf{\Upsilon}$	
morning set	11882 May 14 11:07	21° 8 14'03		desc. node	11883 Apr 17 10:36	20° Ƴ 15′26	
	11882 May 20 03:09	$\Pi^{\circ}0$			11883 Apr 23 16:20	0°8	
max. Earth dist.	11882 May 26 15:58	10° Ⅱ 13'57	1.44933 AU	morning set	11883 Apr 24 01:08	0° 8 34'30	
	•			max. Earth dist.	11883 May 09 10:30	24° 8 38'29	1.45660 AU
superior conj	11882 May 30 19:32	16° Ⅱ 49'21	-2°13'07				
minimum elong	11882 May 30 20:43	16° Ⅱ 54′05	2°13'52	superior conj	11883 May 10 05:44	25° 8 53'43	-2°06'02
	11882 Jun 07 22:37	0 \circ \odot		minimum elong	11883 May 09 23:25	25° 8 29'00	2°06'20
evening rise	11882 Jun 13 20:13	9° 5 47'21			11883 May 12 20:37	$\Pi^{\circ}0$	
asc. node	11882 Jun 24 01:58	26°9540'08		evening rise	11883 May 25 17:37	20° Ⅲ 22'07	
	11882 Jun 26 06:10	$0^{\circ}\Omega$			11883 May 31 18:25	0 \circ \odot	
evening max el	11882 Jul 02 09:16	7° Ω 48'32	18°13'14	greatest brilliancy	11883 Jun 02 05:30	2° 5 19'07	-0.9m
retrograde	11882 Jul 08 17:47	11° Ω 10′07		asc. node	11883 Jun 10 23:00	15°528'50	
evening set	11882 Jul 11 15:43	10° Ω 24'38		evening max el	11883 Jun 15 21:29	21°526'31	18°40'40
inferior conj	11882 Jul 17 15:51	5° Ω 02'37	2°33'26	retrograde	11883 Jun 22 11:06	25° © 01'21	
minimum elong	11882 Jul 17 18:18	4° Ω 55'43	2°32'11	evening set	11883 Jun 25 17:21	24°500'40	
min. Earth dist.	11882 Jul 20 04:52	2° Ω 12'01	0.63715 AU	inferior conj	11883 Jul 01 08:26	18° 5 22'33	3°01'41
	11882 Jul 22 09:07	30°Rூ		minimum elong	11883 Jul 01 10:02	18° © 17'38	3°00'41
				-			

min. Earth dist.	11883 Jul 03 06:48	16° © 00'11	0.65596 AU	inferior conj	11884 Jun 14 08:54	2° © 00'48	3°14'07
morning rise	11883 Jul 07 01:52	12°900'56	0.03370 AC	minimum elong	11884 Jun 14 09:24	1°959'10	3°13'17
direct	11883 Jul 13 12:25	9° © 18'52		min. Earth dist.	11884 Jun 15 16:30	0°9516'58	0.67074 AU
desc. node	11883 Jul 14 10:34	9° © 21'52		mm. Latti dist.	11884 Jun 15 21:44	30°RⅡ	0.07074710
morning max el	11883 Jul 26 18:55	17°909'40	26°53'43	morning rise	11884 Jun 19 18:54	25° I I38'30	
morning max or	11883 Aug 06 11:37	0°Ω	20 33 13	direct	11884 Jun 25 20:02	22° II 59'23	
	11883 Aug 25 14:57	0° m)		desc. node	11884 Jun 30 07:43	24° I 10'50	
morning set	11883 Aug 31 12:30	10° m ₂ 52'33		dese. Hode	11884 Jul 07 19:43	0°95	
max. Earth dist.	11883 Sep 04 17:49	19° m 09'48	1.33932 AU	morning max el	11884 Jul 08 05:40	0° © 24'59	25°41'52
asc. node	11883 Sep 06 23:29	23° m/42'49	1.55752 710	morning max er	11884 Jul 30 10:07	0°Ω	23 41 32
asc. nouc	11883 Sep 00 23.29	23 1144249		morning set	11884 Aug 13 06:16	23° Ω 23'10	
superior conj	11883 Sep 09 03:26	28° m 12'31	0°20'51	morning set	11884 Aug 16 19:36	0° m)	
minimum elong	11883 Sep 09 03:20 11883 Sep 09 02:22	28° m) 06'56	0°20'32	max. Earth dist.	11884 Aug 16 23:05	0°M)16'33	1.35781 AU
minimum clong	-	0° ⊽	0 20 32	max. Earth dist.	11004 Aug 10 23.03	0 11/1033	1.33781 AU
	11883 Sep 09 23:54 11883 Sep 16 10:52	0 <u>≈</u> 13° ≏ 41'51			11004 4 22 20-00	11° m)47'05	0000127
evening rise	•	0°M		superior conj	11884 Aug 22 20:09		0°09'49
	11883 Sep 24 16:39		2192201	minimum elong	11884 Aug 22 20:45	11° m 50'05	0-0949
evening max el	11883 Oct 06 12:14	16°M39'19	21°32'01	behind sun begin	11884 Aug 22 15:47	11° Mp 25'08	
desc. node	11883 Oct 10 07:33	19°M50'39		behind sun end	11884 Aug 23 01:43	12° Mp 15'05	
retrograde	11883 Oct 18 17:43	22°M44'06		asc. node	11884 Aug 23 20:12	13° Mp 48'29	
evening set	11883 Oct 21 12:34	22°M26'21	5010100	evening rise	11884 Aug 30 17:57	27° m 59'24	
inferior conj	11883 Oct 30 11:58	18°MJ31'02			11884 Aug 31 17:33	0∘ ⊽	
minimum elong	11883 Oct 30 03:43	18°M42'34		evening max el	11884 Sep 17 15:02	27° ≏ 24'56	20°09'15
min. Earth dist.	11883 Oct 30 13:36	18° M ⋅28'44	0.54576 AU		11884 Sep 20 15:23	0° M	
morning rise	11883 Nov 07 19:50	14°M42'34		desc. node	11884 Sep 26 04:56	2°M31'13	
direct	11883 Nov 11 14:02	14° M ₊12'01		retrograde	11884 Sep 28 06:50	2°M42'58	
morning max el	11883 Nov 24 02:47	20° M ₁0'37	22°17'03	evening set	11884 Sep 30 06:26	2°M32'46	
	11883 Dec 02 05:02	0° ∡ ¹			11884 Oct 06 19:25	30°Ŗ Ω	
asc. node	11883 Dec 04 00:26	2° х 46′26		inferior conj	11884 Oct 09 06:21	28° ≏ 34'25	
morning set	11883 Dec 15 17:54	24° ₹ 56'49		minimum elong	11884 Oct 08 20:44	28° ≏ 48'45	3°50'43
	11883 Dec 18 02:55	0°ಕ		min. Earth dist.	11884 Oct 10 22:04	27° ≏ 35'12	0.54896 AU
				morning rise	11884 Oct 17 10:01	24° ≏ 26'29	
superior conj	11883 Dec 22 19:17	9° る 59'58	1°33'45	direct	11884 Oct 22 00:16	23° ≏ 40'44	
minimum elong	11883 Dec 22 20:45	10° る 07'43	1°34'28		11884 Nov 04 05:44	0°M	
max. Earth dist.	11883 Dec 26 13:17	17° る 49'08	1.34176 AU	morning max el	11884 Nov 04 14:29	0° M 20′24	24°04'51
evening rise	11883 Dec 30 23:28	26° る 38'20		asc. node	11884 Nov 19 21:20	21°M15'57	
	11884 Jan 01 17:37	0° ≈			11884 Nov 24 12:48	0° ⊀ ¹	
desc. node	11884 Jan 06 05:52	8° ≈ 15′29		morning set	11884 Nov 29 05:44	9° х 43′42	
	11884 Jan 19 19:40	0° ∀					
evening max el	11884 Feb 03 21:25	18° ¥ 25'42	27°00'47	superior conj	11884 Dec 06 02:04	24° х ³37'43	1°38'43
retrograde	11884 Feb 17 05:14	25°) 49'46		minimum elong	11884 Dec 06 02:23	24° ₹ 39'26	1°39'31
evening set	11884 Feb 23 19:35	23° ¥ 16'36		max. Earth dist.	11884 Dec 08 11:31	29° х ⁴48′03	1.32757 AU
min. Earth dist.	11884 Feb 27 18:42	19° ¥ 25'58	0.65602 AU		11884 Dec 08 13:44	8°0	
inferior conj	11884 Feb 29 22:30	16° ¥ 58'19	-0°00'08	evening rise	11884 Dec 13 14:15	10° る 27'36	
minimum elong	11884 Feb 29 22:30	16° ¥ 58′20	0°00'07	desc. node	11884 Dec 23 02:47	28° る 20'59	
transit middle	11884 Feb 29 22:30	16° ¥ 58′20	0°00'07		11884 Dec 24 01:46	0° ≈	
transit begin	11884 Feb 29 19:31	17° ₩ 06'52			11885 Jan 14 15:34	0°) €	
transit end	11884 Mar 01 01:29	16°) 49'48		evening max el	11885 Jan 16 09:50	1°) 44'57	27°29'00
asc. node	11884 Feb 29 22:41	16° ¥ 57'49		retrograde	11885 Jan 30 02:41	9° ∺ 09'24	
morning rise	11884 Mar 07 02:48	11°) 24′20		evening set	11885 Feb 05 23:55	6°) 40′17	
direct	11884 Mar 09 21:31	10°) 42'31		min. Earth dist.	11885 Feb 09 18:57	3° ¥ 20′30	0.63858 AU
morning max el	11884 Mar 16 06:31	14°) 03′28	18°05'24	inferior conj	11885 Feb 12 10:01	0°) 37'48	-1°07'23
	11884 Mar 27 19:18	0° Υ		minimum elong	11885 Feb 12 12:09	0°) 32′16	1°06'03
desc. node	11884 Apr 03 07:15	10° Ƴ 30'45			11885 Feb 13 00:42	30° R ≈	
morning set	11884 Apr 03 18:38	11° Y 17'03		asc. node	11885 Feb 15 19:59	27° ≈ 21'48	
	11884 Apr 15 10:05	0°B		morning rise	11885 Feb 19 02:32	25° ≈ 18'25	
	•			direct	11885 Feb 21 13:05	24° ≈ 48'52	
superior conj	11884 Apr 18 14:12	5° 8 00'26	-1°39'37	morning max el	11885 Feb 28 00:05	28° ≈ 08'43	17°48'29
minimum elong	11884 Apr 18 04:51	4° 8 23'35		-	11885 Mar 01 17:22	0°) €	
max. Earth dist.	11884 Apr 21 06:36	9° 8 13'02	1.45642 AU	morning set	11885 Mar 16 15:49	23° ¥ 20′10	
evening rise	11884 May 04 16:54	0° Ⅱ 05'17		Ü	11885 Mar 20 14:03	0° Υ	
& .	11884 May 04 15:32	0°II		desc. node	11885 Mar 21 03:52	0° Υ 58'18	
greatest brilliancy	11884 May 17 09:36	19° Ⅱ 30'59	-0.7m				
5 21 2	11884 May 24 19:25	0.ee		superior conj	11885 Mar 29 14:13	14° Y ′55'09	-1°01'04
asc. node	11884 May 27 20:07	3°9540'51		minimum elong	11885 Mar 29 07:48	14° Υ 29'05	
evening max el	11884 May 29 05:25	5°909'21	19°25'01	max. Earth dist.	11885 Apr 04 01:27	23° Y 41'00	1.44894 AU
retrograde	11884 Jun 05 08:25	9°9510'00			11885 Apr 08 01:51	0°8	. 22.110
evening set	11884 Jun 08 23:27	7°953'20		evening rise	11885 Apr 14 04:39	9° 8 27'34	
	00 25.27	. 20020				, 02,54	

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	11885 Apr 27 20:59	0° Ⅱ		asc. node	11886 May 01 14:29	7° Ⅱ 26'20	
evening max el	11885 May 12 07:51	18° Ⅲ 54'26	20°24'29	retrograde	11886 May 04 05:31	7° II 59'07	
asc. node	11885 May 14 17:16	21° I I04'50	20 242)	evening set	11886 May 08 16:30	6° Ⅱ 10'31	
	11885 May 20 07:15	23° II 30'53		inferior conj	11886 May 13 23:01	29° 8 54'23	3°01'34
retrograde	•			-	•		
evening set	11885 May 24 07:46	21° II 58'07	2012/20	minimum elong	11886 May 13 21:36	29° 8 59'20	3°00'43
inferior conj	11885 May 29 14:31	15° Ⅲ 52'47			11886 May 13 21:25	30° ₹ 8	
minimum elong	11885 May 29 13:58	15° Ⅱ 54'42		min. Earth dist.	11886 May 14 03:14	_	0.68664 AU
min. Earth dist.	11885 May 30 08:02	14° Ⅱ 52'46	0.68103 AU	morning rise	11886 May 19 02:29	23° 8 39'47	
morning rise	11885 Jun 03 19:53	9° Ⅱ 33'15		direct	11886 May 24 03:00	21° 8 29'14	
direct	11885 Jun 09 09:18	7° Ⅱ 05'24		morning max el	11886 Jun 03 02:12	27° 8 23'07	22°46'18
desc. node	11885 Jun 17 04:47	10° Ⅱ 40′10		desc. node	11886 Jun 04 01:46	28° 8 23'55	
morning max el	11885 Jun 20 15:33	13° Ⅱ 50′26	24°16'04		11886 Jun 05 12:59	Π °0	
	11885 Jul 03 18:22	0 \circ \odot			11886 Jun 27 08:53	0 \circ \odot	
	11885 Jul 23 06:39	$0^{\circ}\Omega$		morning set	11886 Jul 07 04:47	15° © 35'37	
morning set	11885 Jul 26 05:18	5° Ω 01'31		max. Earth dist.	11886 Jul 11 18:51	23° © 16'29	1.40300 AU
max. Earth dist.	11885 Jul 29 21:03	11° Ω 28′05	1.37978 AU		11886 Jul 15 16:02	$0^{\circ}\Omega$	
superior conj	11885 Aug 06 01:10	24° Ω 46'38	-0°43'01	superior conj	11886 Jul 19 14:26	7° Ω 01'59	-1°16'56
minimum elong	11885 Aug 06 04:06	25°Ω00'40	0°43'01	minimum elong	11886 Jul 19 19:53	7° Ω 26'41	1°16'49
Č	11885 Aug 08 17:54	0° m)		asc. node	11886 Jul 28 13:40	23° Ω 46'41	
asc. node	11885 Aug 10 16:55	3° m/50'58		evening rise	11886 Jul 29 11:48	25° Ω 31'45	
evening rise	11885 Aug 14 19:18	11° m 58'40		evening rise	11886 Jul 31 20:32	0° m)	
evening rise	11885 Aug 24 13:01	0° ⊽		evening max el	11886 Aug 14 11:40	21° Mp 16'23	18°26'46
evening max el	11885 Aug 31 07:49	0 <u>—</u> 8° ჲ 58'37	1000720	retrograde	11886 Aug 22 03:49	25° m) 08'09	18 20 40
•	-	13° £ 28'13	19 07 20	-	-		
retrograde	11885 Sep 09 07:55			evening set	11886 Aug 24 05:23	24° Mp 52'10	
evening set	11885 Sep 11 04:19	13° Ω 17'37		desc. node	11886 Aug 30 23:45	21° Mp 02'34	0017104
desc. node	11885 Sep 13 02:21	12° Ω 45'44		inferior conj	11886 Aug 31 21:45	20° m 19'15	
inferior conj	11885 Sep 19 15:25	9° ₾ 05'03		minimum elong	11886 Aug 31 21:06	20° m/20'33	0°17'02
minimum elong	11885 Sep 19 10:04		2°00'57	min. Earth dist.	11886 Sep 04 04:58	17° m 42'53	0.57999 AU
min. Earth dist.	11885 Sep 22 10:38	7° ≏ 11'18	0.56114 AU	morning rise	11886 Sep 08 09:20	15° Mp 00'06	
morning rise	11885 Sep 27 12:53	4° ഫ 22'44		direct	11886 Sep 14 11:36	13° m 24'29	
direct	11885 Oct 02 22:48	3° ≏ 14'34		morning max el	11886 Sep 28 19:27	21°Mp01'20	27°06'00
morning max el	11885 Oct 17 02:05	10° ≙ 27'26	25°46'58		11886 Oct 06 14:46	0∘ ত	
	11885 Oct 31 22:46	0° M .		asc. node	11886 Oct 24 14:58	29° ≙ 46′05	
asc. node	11885 Nov 06 18:10	10° M ∙18'45			11886 Oct 24 17:46	0° M.	
morning set	11885 Nov 13 17:01	24°M25'19		morning set	11886 Oct 29 02:05	8°M57'21	
	11885 Nov 16 06:39	0° ∡ ¹					
				superior conj	11886 Nov 04 23:55	24°ML07'29	1°30'27
superior conj	11885 Nov 20 12:16	9° ∡ ¹22'10	1°37'30	minimum elong	11886 Nov 04 22:17	23°ML58'23	1°30'55
minimum elong	11885 Nov 20 11:30	9° ∡ 17'55	1°38'12	max. Earth dist.	11886 Nov 05 00:50	24°ML12'40	1.31374 AU
max. Earth dist.	11885 Nov 21 16:17	11° ∡ 57′03	1.31818 AU		11886 Nov 07 15:16	0° ⊼	
evening rise	11885 Nov 27 13:34	24° ∡ ³37'48		evening rise	11886 Nov 11 18:56	9° ∡ ¹02'26	
8 21	11885 Nov 30 04:36	0°ਰ		8	11886 Nov 22 13:07	0°ප	
desc. node	11885 Dec 09 23:47	18° පි 03'06		desc. node	11886 Nov 26 20:53	7° る 12'37	
dese. node	11885 Dec 17 16:37	0° ≈		evening max el	11886 Dec 11 22:51	26° පි 31'36	26°51'01
evening max el	11885 Dec 29 19:10	14° ≈ 30′50	27°27'06	evening man er	11886 Dec 16 03:05	0°≈	20 01 01
retrograde	11886 Jan 12 16:34	21°≈49'02	27 27 00	retrograde	11886 Dec 25 21:22	3°≈40'37	
evening set	11886 Jan 19 15:43	19°≈32'29		evening set	11887 Jan 01 15:19	1°≈45'19	
min. Earth dist.	11886 Jan 23 09:23	19 ≈ 32 29 16° ≈ 38'01	0.61853 AU	evening set	11887 Jan 04 08:40	1 ∞43 19 30°Rる	
				in Frankla dine			0.50720 AII
inferior conj	11886 Jan 26 09:26	13°≈52'53		min. Earth dist.	11887 Jan 05 13:06		0.59720 AU
minimum elong	11886 Jan 26 14:20	13°≈41'37	2°20'20	inferior conj	11887 Jan 08 17:16	26°₹34'24	
morning rise	11886 Feb 02 15:39	8°≈50'56		minimum elong	11887 Jan 09 00:48	26°る19'16	3°38'44
asc. node	11886 Feb 02 17:15	8° ≈ 49'41		morning rise	11887 Jan 16 13:07	21° る 52'55	
direct	11886 Feb 04 20:18	8° ≈ 29'51		direct	11887 Jan 18 15:14	21° පි 36'38	
morning max el	11886 Feb 11 17:02	11° ≈ 58'31	17°49'21	asc. node	11887 Jan 20 14:30	21° る 51'45	
	11886 Feb 23 20:19	0° ∀		morning max el	11887 Jan 26 05:55	25° る 23'28	18°09'15
morning set	11886 Feb 27 10:48	6° ∺ 24'50			11887 Jan 30 02:52	0° ≈	
desc. node	11886 Mar 08 00:28	21°) 33′12		morning set	11887 Feb 10 21:27	20° ≈ 12'38	
					11887 Feb 16 03:10	0°) €	
superior conj	11886 Mar 10 14:05	25° ¥ 57'19	-0°19'41				
minimum elong	11886 Mar 10 12:14	25°) 49′28	0°19'15	superior conj	11887 Feb 20 13:37	8° ₩ 05'22	0°18'02
-	11886 Mar 12 23:37	0° Υ		minimum elong	11887 Feb 20 15:00	8° ₩ 11'37	0°18'11
max. Earth dist.	11886 Mar 17 17:04	7° Υ '47'25	1.43498 AU	desc. node	11887 Feb 22 21:05	12° 米 11'55	
evening rise	11886 Mar 24 20:30	19° Ƴ 08'34		max. Earth dist.	11887 Feb 28 04:35	21° ¥ 20'42	1.41604 AU
5 .	11886 Mar 31 22:51	0°8		evening rise	11887 Mar 05 04:44	29°) 36'08	-
	11886 Apr 22 16:59	0°II		5 - 7	11887 Mar 05 10:39	0°Υ	
evening max el	11886 Apr 25 04:45	2° Ⅱ 40'50	21°36'02		11887 Mar 25 11:38	0°8	
		000			20 11.30	- 0	

evening max el	11887 Apr 07 21:18	16° 8 28'47	22°54'58	evening max el	11888 Mar 20 11:20	0° 8 19'03	24°15'23
retrograde	11887 Apr 18 01:45	22° 8 29'28		retrograde	11888 Mar 31 18:44	6° 8 57'09	
asc. node	11887 Apr 18 11:47	22° 8 28'38		asc. node	11888 Apr 04 09:07	5° 8 58'09	
evening set	11887 Apr 23 00:01	20° 8 25'56		evening set	11888 Apr 06 04:50	4° 8 40'34	
inferior conj	11887 Apr 28 08:23	14° 8 01'25	2°39'27		11888 Apr 10 08:19	30° ŖƳ	
minimum elong	11887 Apr 28 06:23	14° 8 08'19	2°38'31	min. Earth dist.	11888 Apr 10 19:59	29° Y ′21′05	0.68412 AU
min. Earth dist.	11887 Apr 27 23:54	14° 8 30'47	0.68763 AU	inferior conj	11888 Apr 11 16:44	28° Y 11′05	2°07'33
morning rise	11887 May 03 12:38	7° 8 53'13		minimum elong	11888 Apr 11 14:34	28° Y 18'24	2°06'37
direct	11887 May 07 23:58	6° 8 03'22		morning rise	11888 Apr 17 00:25	22° Y 10'21	
morning max el	11887 May 16 17:01	11° 8 05'22	21°21'03	direct	11888 Apr 20 22:56	20° Y ′42'02	
desc. node	11887 May 21 22:38	17° 8 01'32		morning max el	11888 Apr 28 14:51	25° Y ′00'08	20°06'37
	11887 May 31 12:27	$\Pi^{\circ}0$			11888 May 03 01:03	9° 8	
morning set	11887 Jun 17 02:23	25° Ⅱ 00′26		desc. node	11888 May 07 19:25	6° 8 18'39	
	11887 Jun 20 05:44	0°€			11888 May 23 20:12	$\Pi^{\circ}0$	
max. Earth dist.	11887 Jun 23 22:22	5°959'20	1.42461 AU	morning set	11888 May 26 05:06	3° Ⅱ 38′20	
				max. Earth dist.	11888 Jun 05 08:42	19° Ⅲ 32'13	1.44198 AU
superior conj	11887 Jul 01 07:22	18°522'03	-1°47'17				
minimum elong	11887 Jul 01 14:10	18° © 51'17	1°47'25	superior conj	11888 Jun 11 00:35	28° Ⅲ 40'41	-2°08'08
	11887 Jul 07 22:34	$0^{\circ}\Omega$		minimum elong	11888 Jun 11 05:14	28° Ⅲ 59'43	2°08'45
evening rise	11887 Jul 12 15:24	8° Ω 28′03		_	11888 Jun 11 19:57	0°99	
asc. node	11887 Jul 15 10:30	13° Ω 30′55		evening rise	11888 Jun 24 01:20	20° 5 36'20	
	11887 Jul 25 10:45	0° m)			11888 Jun 29 12:50	$0^{\circ}\Omega$	
evening max el	11887 Jul 28 22:24	4° ዀ 07'51	18°06'29	asc. node	11888 Jul 01 07:25	2° Ω 58'58	
retrograde	11887 Aug 04 17:58	7° Mp 36'37		evening max el	11888 Jul 11 12:12	17° Ω 23'49	18°05'23
evening set	11887 Aug 07 03:04	7° Mp 11'27		retrograde	11888 Jul 17 22:03	20° Ω 44'18	
inferior conj	11887 Aug 14 01:09	2° Mp 17′50	1°07'53	evening set	11888 Jul 20 15:10	20° Ω 07'00	
minimum elong	11887 Aug 14 03:08	2° Mp 13'14	1°06'45	inferior conj	11888 Jul 26 22:12	14° Ω 54'43	2°08'32
	11887 Aug 16 12:37	30°R Ω		minimum elong	11888 Jul 27 00:51	14° Ω 47'43	2°07'11
min. Earth dist.	11887 Aug 17 07:07	29° Ω 18'40	0.60224 AU	min. Earth dist.	11888 Jul 29 18:42	11° Q 55′02	0.62488 AU
desc. node	11887 Aug 17 21:10	28° Ω 48′20		morning rise	11888 Aug 02 08:26	8° Ω 45'32	
morning rise	11887 Aug 21 00:12	26° Ω 28'28		desc. node	11888 Aug 03 18:31	7° Ω 49'49	
direct	11887 Aug 27 12:55	24° Ω 25'05		direct	11888 Aug 09 00:57	6° Ω 19'25	
	11887 Sep 08 08:27	0° m p		morning max el	11888 Aug 23 03:20	14° Ω 21'44	27°55'25
morning max el	11887 Sep 10 20:21	2° Mp 18'40	27°50'09		11888 Sep 04 19:03	0° m y	
	11887 Oct 01 01:27	0∘ 亚			11888 Sep 22 14:57	0∘ ⊽	
asc. node	11887 Oct 11 11:42	19° ≙ 30'32		morning set	11888 Sep 26 06:08	7° ≙ 12'09	
morning set	11887 Oct 13 07:09	23° ≏ 14'44		asc. node	11888 Sep 27 08:25	9° ≙ 26'45	
	11887 Oct 16 11:13	0°M₊		max. Earth dist.	11888 Oct 01 14:05	18° ≏ 23'57	1.31986 AU
max. Earth dist.	11887 Oct 19 09:27	6°M25'13	1.31425 AU				
				superior conj	11888 Oct 03 20:08	23° ₽ 17'56	0°59'45
superior conj	11887 Oct 20 11:09	8° M 47'50	1°17'49	minimum elong	11888 Oct 03 17:56	23° ≙ 05'49	0°59'36
minimum elong	11887 Oct 20 09:00	8°M35'51	1°17'58		11888 Oct 06 21:18	0° M	
evening rise	11887 Oct 27 04:08	23°M35'12		evening rise	11888 Oct 10 15:15	8° M ₁0'42	
	11887 Oct 30 05:09	0°⊀			11888 Oct 21 19:31	0° ∡ ¹	
desc. node	11887 Nov 13 18:06	25° х 36′50		desc. node	11888 Oct 30 15:22	12° ∡ 57'57	
	11887 Nov 16 23:00	0°ප		evening max el	11888 Nov 04 06:16	18° ∡ ¹02'03	24°08'35
evening max el	11887 Nov 23 18:21	7° る 39'52	25°41'53	retrograde	11888 Nov 17 21:49	24° ∡ 751′23	
retrograde	11887 Dec 07 15:34	14° ⋜ 40′13		evening set	11888 Nov 22 21:18	23° ∡ 56′59	
evening set	11887 Dec 13 18:21	13° る 13'32		min. Earth dist.	11888 Nov 28 17:13	21° ₮ 02'29	0.55909 AU
min. Earth dist.	11887 Dec 18 06:45	10° る 36'33	0.57648 AU	inferior conj	11888 Nov 30 22:19	19° ∡ ′41′23	-5°43'17
inferior conj	11887 Dec 21 06:07	8° ප 32'46	-4°54'44	minimum elong	11888 Dec 01 02:34	19° х 34′53	5°42'07
minimum elong	11887 Dec 21 14:21	8° る 18'27	4°52'00	morning rise	11888 Dec 09 09:53	15° ∡ ¹43'09	
morning rise	11887 Dec 29 12:50	4° る 13'55		direct	11888 Dec 11 23:58	15° ∡ ¹25'51	
direct	11887 Dec 31 17:28	3°₹59'00		morning max el	11888 Dec 22 04:17	20° ∡ 17′07	19°53'23
asc. node	11888 Jan 07 11:42	6° ප 31'20		asc. node	11888 Dec 24 08:50	22° х 35′48	
morning max el	11888 Jan 09 10:57	8° る 13'22	18°50'02		11888 Dec 29 17:47	ರ°0	
	11888 Jan 23 11:31	0° ≈		morning set	11889 Jan 08 23:36	19° る 03'37	
morning set	11888 Jan 25 18:57	4° ≈ 29′23			11889 Jan 14 08:33	0° ≈ ≈	
superior conj	11888 Feb 03 08:44	21° ≈ 08′08	0°48'55	superior conj	11889 Jan 16 18:34	4° ≈ 51'06	1°12'09
minimum elong	11888 Feb 03 11:31	21° ≈ 21′20	0°49'03	minimum elong	11889 Jan 16 21:23	5° ≈ 05'07	1°12'30
	11888 Feb 08 03:37	0° ∀		max. Earth dist.	11889 Jan 22 18:21	16° ≈ 25'38	1.37203 AU
desc. node	11888 Feb 09 17:46	2° 升 51'14		evening rise	11889 Jan 26 11:57	23° ≈ 15'33	
max. Earth dist.	11888 Feb 10 12:07	4°) 12'36	1.39422 AU	desc. node	11889 Jan 26 14:30	23° ≈ 26'57	
evening rise	11888 Feb 14 10:10	10°) 59′49			11889 Jan 30 08:25	0°)	
	11888 Feb 26 06:45	$0^{\circ}\mathbf{\Upsilon}$			11889 Feb 19 00:53	0° Y	
	11888 Mar 20 03:43	9° 8		evening max el	11889 Mar 03 00:38	14° Y 09'41	25°30'38
				-			

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retrograde	11889 Mar 15 07:28	21° Υ 15'14			11890 Jan 23 02:30	0° \	
•		18° Υ 48'42		avanina may al		27° ¥ 56'25	26022120
evening set	11889 Mar 21 05:16			evening max el	11890 Feb 13 14:15		26°33'20
asc. node	11889 Mar 22 06:30	17° Y 51′04			11890 Feb 15 20:08	0° Υ	
min. Earth dist.	11889 Mar 25 13:18	14° Ƴ 04'20	0.67632 AU	retrograde	11890 Feb 26 14:53	5° Ƴ 16'57	
inferior conj	11889 Mar 26 22:10	12° Ƴ 18'45	1°25'52	evening set	11890 Mar 04 23:34	2° Ƴ 44'51	
minimum elong	11889 Mar 26 20:19	12° Y 24'41	1°25'09		11890 Mar 07 19:52	30° ₹	
morning rise	11889 Apr 01 11:51	6° Ƴ 26'49		min. Earth dist.	11890 Mar 09 01:43	28°) 34'45	0.66450 AU
direct	11889 Apr 04 22:31	5° Υ 18'45		asc. node	11890 Mar 09 03:51	28°) 28'28	
	11889 Apr 11 20:21	9° Υ 05'01	19°06'36	inferior conj	11890 Mar 10 22:35	26° ∺ 20'17	0024112
morning max el	*		19 00 30				
desc. node	11889 Apr 24 16:08	26° Y ′04′05		minimum elong	11890 Mar 10 21:42	26°) €22'57	0°33'59
greatest brilliancy	11889 Apr 24 22:22	26° Y 27′25	-0.7m	morning rise	11890 Mar 16 20:50	20°) 38′51	
	11889 Apr 27 06:37	$_{0\circ}$ 8		direct	11890 Mar 19 20:55	19°) 48′24	
morning set	11889 May 05 08:23	12° 8 24'20		morning max el	11890 Mar 26 08:24	23° ∺ 15′22	18°22'48
	11889 May 16 16:06	Π°			11890 Mar 31 21:59	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	11889 May 19 00:17	3° Ⅱ 40′04	1.45326 AU	desc. node	11890 Apr 11 12:48	16° Ƴ 10′20	
				morning set	11890 Apr 15 09:12	22° Y 17'10	
gunariar agni	11889 May 21 19:24	8° Ⅱ 04'15	2012/20	morning set	11890 Apr 20 05:56	0°8	
superior conj	•				11090 Apr 20 03.30	0.0	
minimum elong	11889 May 21 17:20	7° Ⅱ 56'05	2°13'20				
	11889 Jun 04 10:54	0		superior conj	11890 May 01 02:31	17° 8 03'28	-1°56'53
evening rise	11889 Jun 05 12:43	1° 5 045'33		minimum elong	11890 Apr 30 18:02	16° 8 30'20	1°56'50
asc. node	11889 Jun 18 04:24	22° © 04'16		max. Earth dist.	11890 May 01 19:15	18° 8 08'49	1.45743 AU
	11889 Jun 24 04:20	$0^{\circ}\Omega$			11890 May 09 09:21	Π°	
evening max el	11889 Jun 25 01:45	0° Ω 55'47	18°22'46	evening rise	11890 May 16 23:50	11° II 55'07	
•	11889 Jul 01 11:34	4° Ω 21'41	10 22 40	•		27° Ⅱ 29'50	-0.8m
retrograde				greatest brilliancy	11890 May 26 22:46		-0.6111
evening set	11889 Jul 04 12:53	3° Ω 30′05			11890 May 28 13:59	0 \circ	
	11889 Jul 08 15:02	30° ₹ 5		asc. node	11890 Jun 05 01:26	10° © 38'38	
inferior conj	11889 Jul 10 08:45	28° 5 01'10	2°47'32	evening max el	11890 Jun 08 12:23	14° 5 36'31	18°57'39
minimum elong	11889 Jul 10 10:53	27° © 54'51	2°46'23	retrograde	11890 Jun 15 06:46	18° © 20'45	
min. Earth dist.	11889 Jul 12 15:44	25° © 20'34	0.64554 AU	evening set	11890 Jun 18 16:41	17° © 13'25	
morning rise	11889 Jul 16 07:38	21°9641'55		inferior conj	11890 Jun 24 05:00	11° 5 29'19	3°08'42
desc. node	11889 Jul 21 15:47	19° 5 07'47			11890 Jun 24 06:08	11°925'41	3°07'47
				minimum elong			
direct	11889 Jul 22 21:53	19° © 02'19		min. Earth dist.	11890 Jun 25 21:08	9° © 22'08	0.66277 AU
morning max el	11889 Aug 05 13:32	27° © 01'58	27°24'50	morning rise	11890 Jun 29 18:56	5°906'57	
	11889 Aug 08 08:19	$0^{\circ}\Omega$		direct	11890 Jul 06 02:01	2° © 24'41	
	11889 Aug 29 10:58	0° m)		desc. node	11890 Jul 08 12:59	2° 5 46'06	
morning set	11889 Sep 09 20:28	20° Mp 43'15		morning max el	11890 Jul 19 00:19	10°906'50	26°25'28
asc. node	11889 Sep 14 05:07	29° m 30'14			11890 Aug 03 17:24	$0^{\circ}\Omega$	
	11889 Sep 14 10:52	0∘ ⊽			11890 Aug 21 23:40	0° m/	
max. Earth dist.	11889 Sep 14 11:02		1.33067 AU	morning set	11890 Aug 23 22:49	3° m ₂ 38'33	
max. Earm dist.	11889 Sep 14 11.02	0 ==004/	1.33007 AU	morning set	•		1 24661 444
				max. Earth dist.	11890 Aug 27 21:44	11° m) 14'15	1.34661 AU
superior conj	11889 Sep 18 00:50	7° ≏ 32'23	0°36'29	asc. node	11890 Sep 01 01:47	19° Mp 36'12	
minimum elong	11889 Sep 17 23:09	7° ≏ 23'24	0°36'10				
evening rise	11889 Sep 25 02:25	22° ₽ 44'06		superior conj	11890 Sep 01 22:44	21° m 23'47	0°08'26
	11889 Sep 28 14:00	0° M		minimum elong	11890 Sep 01 22:16	21° m) 21'27	0°08'09
evening max el	11889 Oct 16 17:15	28°ML06'47	22°27'19	behind sun begin	11890 Sep 01 17:09	20° m 55'03	
desc. node	11889 Oct 17 12:42	28°M52'53	, _ ,	behind sun end	11890 Sep 02 03:24	21° m/ 47'53	
desc. Hode		20 11G3233 0° √		bennia sun ena	-	-	
	11889 Oct 18 19:25				11890 Sep 06 01:44	0∘ ⊽	
retrograde	11889 Oct 29 15:54	4° ∡ ³32'39		evening rise	11890 Sep 09 11:34	7° ≏ 09'07	
evening set	11889 Nov 02 04:25	4° ₹ 05'24			11890 Sep 21 18:30	0° M	
min. Earth dist.	11889 Nov 10 00:32	0° ∡ ³35′17	0.54814 AU	evening max el	11890 Sep 28 12:32	8°M29'52	20°54'32
inferior conj	11889 Nov 10 21:12	0° ∡ ¹06'05	-5°45'13	desc. node	11890 Oct 04 10:05	12°M52'28	
minimum elong	11889 Nov 10 17:05	11'54 ح °0	5°44'13	retrograde	11890 Oct 10 02:49	14° M -15'11	
	11889 Nov 11 01:30	30°RML		evening set	11890 Oct 12 11:21	14° M L01'57	
				•			4940121
morning rise	11889 Nov 19 07:10	26°M18'34		inferior conj	11890 Oct 21 12:56	10°M07'22	
direct	11889 Nov 22 13:54	25°M54'13		minimum elong	11890 Oct 21 03:07	10° M ₊21'17	4°45'39
	11889 Dec 02 15:16	0° ⊼ ¹		min. Earth dist.	11890 Oct 22 07:39	9° M 40'46	0.54600 AU
morning max el	11889 Dec 04 07:37	1° ∡ ¹28'39	21°19'07	morning rise	11890 Oct 29 19:04	6°M13′02	
asc. node	11889 Dec 11 05:52	9° ∡¹ 48'47		direct	11890 Nov 02 22:03	5°M36'31	
	11889 Dec 22 12:37	0°ರ		morning max el	11890 Nov 15 22:50	11°ML53'25	23°02'16
morning set	11889 Dec 24 08:41	ა ა		asc. node	11890 Nov 28 02:49	27°M54'03	
morning oct	11007 DCC 24 00.41	5 07/43		asc. nouc			
	11000 5	100-20	10051-5		11890 Nov 29 08:19	0° ₹¹	
superior conj	11889 Dec 31 15:01	19° る 02'44		morning set	11890 Dec 08 20:02	18° ∡ ³34'53	
minimum elong	11889 Dec 31 17:06	19° る 13'30	1°28'29		11890 Dec 14 03:16	0°ಕ	
max. Earth dist.	11890 Jan 05 04:35	28° る 19'28	1.35185 AU				
	11890 Jan 06 00:58	0° ≈		superior conj	11890 Dec 15 18:46	3° る 32'47	1°36'37
evening rise	11890 Jan 09 06:58	6°≈15'24		minimum elong	11890 Dec 15 19:45	3° ට 38'04	1°37'24
desc. node	11890 Jan 13 11:19	13°≈55'13		max. Earth dist.	11890 Dec 18 22:23		1.33524 AU
desc. Houe	11070 Jan 13 11.19	15 ~55 15		max. Larm uist.	11070 DCC 10 22.23	10 01337	1.55527 AU

evening rise	11890 Dec 23 15:30	19° る 48'57			11891 Dec 05 14:18	8°0	
evening rise	11890 Dec 29 00:14	0°≈		evening rise	11891 Dec 07 10:15	3° ਰ 47'54	
desc. node	11890 Dec 29 00.14 11890 Dec 31 08:12	0 ∞ 4°≈10'41		desc. node	11891 Dec 07 10:13	3 34734 24° る 07'18	
desc. node	11891 Jan 17 03:26	4 ≈1041 0°)		desc. node	11891 Dec 18 03:09 11891 Dec 21 18:04	24 3 07 18 0° ≈	
avanina may al	11891 Jan 27 03:43	0 X 11° ¥ 29'45	27916110	avanina may al	11892 Jan 09 15:14	0 ∞ 24°≈36'39	27922100
evening max el	11891 Jan 27 03.43 11891 Feb 09 16:02	18°) 54'21	27 10 10	evening max el	11892 Jan 09 13.14 11892 Jan 16 16:21	24 ≈30 39 0° H	27 32 09
retrograde		16° ★ 22'23				1° ¥ 58′07	
evening set	11891 Feb 16 09:40		0.64000 ATT	retrograde	11892 Jan 23 10:05		
min. Earth dist.	11891 Feb 20 07:00	12°) (45'02		. ,	11892 Jan 29 16:50	30°R≈	
inferior conj	11891 Feb 22 15:36	10°) €09'58		evening set	11892 Jan 30 09:01	29°≈33'20	0.62025.477
minimum elong	11891 Feb 22 16:25	10°) €07'44	0°26'49	min. Earth dist.	11892 Feb 03 03:06	26°≈25'20	0.63035 AU
asc. node	11891 Feb 24 01:10	8°) (39′28		inferior conj	11892 Feb 05 22:22	23°≈40'07	
morning rise	11891 Mar 01 00:50	4°) (41'32		minimum elong	11892 Feb 06 01:38	23°≈32'06	1°36'44
direct	11891 Mar 03 15:54	4°) €05'18		asc. node	11892 Feb 10 22:29	19° ≈ 24'58	
morning max el	11891 Mar 10 00:43		17°56'01	morning rise	11892 Feb 12 20:36	18° ≈ 27'45	
	11891 Mar 25 10:51	0° Υ		direct	11892 Feb 15 04:27	18° ≈ 02'08	
morning set	11891 Mar 27 15:03	3° Y 36′19		morning max el	11892 Feb 21 18:25	21° ≈ 24'13	17°46'40
desc. node	11891 Mar 29 09:27	6° Ƴ 31'43			11892 Feb 28 08:31	0° ∀	
				morning set	11892 Mar 08 22:20	16° ∺ 08'19	
superior conj	11891 Apr 10 15:49	26° Y 26′04		desc. node	11892 Mar 15 06:04	27° ₩ 03'03	
minimum elong	11891 Apr 10 07:12	25° Y 51'45	1°23'27		11892 Mar 16 23:46	0 ° Υ	
	11891 Apr 12 21:49	0° 8					
max. Earth dist.	11891 Apr 14 15:21	2° 8 43'34	1.45413 AU	superior conj	11892 Mar 21 01:33	6° Ƴ 48'32	-0°43'23
evening rise	11891 Apr 26 16:27	21° 8 25'06		minimum elong	11892 Mar 20 21:07	6° Ƴ 30′13	0°42'44
	11891 May 02 07:08	$\Pi^{\circ}0$		max. Earth dist.	11892 Mar 27 09:40	17° Y 06'33	1.44373 AU
greatest brilliancy	11891 May 11 01:47	13° Ⅱ 09′21	-0.6m		11892 Apr 04 14:50	$8^{\circ 0}$	
asc. node	11891 May 22 22:33	28° Ⅲ 32'14		evening rise	11892 Apr 05 04:06	0° 8 51'06	
evening max el	11891 May 22 18:10	28° Ⅲ 21′18	19°48'41		11892 Apr 24 22:33	$\Pi^{\circ}0$	
	11891 May 24 12:50	0°€		evening max el	11892 May 04 18:09	12° Ⅲ 06'47	20°53'39
retrograde	11891 May 30 04:54	2° 9 35'40		asc. node	11892 May 08 19:44	15° Ⅲ 31'40	
evening set	11891 Jun 02 23:57	1°9512'00		retrograde	11892 May 13 03:43	17° Ⅱ 00'27	
Č	11891 Jun 04 09:25	30°R Ⅱ		evening set	11892 May 17 08:40	15° Ⅱ 20'37	
inferior conj	11891 Jun 08 07:56	25° Ⅱ 13'58	3°15'17	inferior conj	11892 May 22 15:02	9° Ⅱ 10'17	3°09'41
minimum elong	11891 Jun 08 07:58	25° Ⅱ 13'52	3°14'29	minimum elong	11892 May 22 14:04	9° Ⅱ 13'36	3°08'53
min. Earth dist.	11891 Jun 09 09:26	23° Ⅱ 48'30	0.67570 AU	min. Earth dist.	11892 May 23 02:41	8° Ⅱ 29'54	0.68399 AU
morning rise	11891 Jun 13 15:39	18° ∏ 52'49		morning rise	11892 May 27 19:16	2° П 52'48	
direct	11891 Jun 19 12:07	16° Ⅱ 17'38		direct	11892 Jun 02 03:12	0° Д 32'03	
desc. node	11891 Jun 25 10:05	18° Ⅲ 21'29		desc. node	11892 Jun 11 07:07	5° П 25'17	
morning max el	11891 Jul 01 10:28	23° II 26'51	25°06'32	morning max el	11892 Jun 12 20:29	6° П 55'45	23°37'54
morning max er	11891 Jul 07 05:57	0°95	23 00 32	morning max er	11892 Jun 30 19:07	0° 9	25 57 54
	11891 Jul 28 02:04	0°N		morning set	11892 Jul 17 22:40	27° © 00'10	
morning set	11891 Aug 06 09:09	15° Ω 48'17		morning set	11892 Jul 17 22:40 11892 Jul 19 16:49	0°Ω	
max. Earth dist.	11891 Aug 00 09:09 11891 Aug 09 23:23	22°Ω20'23	1.36688 AU	may Earth dist	11892 Jul 19 10:49 11892 Jul 21 20:50		1.38969 AU
max. Earm dist.	•	0° m)	1.30000 AU	max. Earth dist.	11892 Jul 21 20.30	3 864347	1.38909 AU
	11891 Aug 14 00:33	עוו ט		aumarian aani	11892 Jul 29 09:43	179 026115	0057122
:	11001 A 16 10-55	40 m 44150	0022121	superior conj		17° Ω 26'15	
superior conj	11891 Aug 16 10:55	4° Mp 44'50		minimum elong	11892 Jul 29 13:44	17° Ω 45'08	0°57'28
minimum elong	11891 Aug 16 12:26	4° Mp 52'19	0°23'37	asc. node	11892 Aug 04 19:12	29° Ω 41'12	
asc. node	11891 Aug 18 22:28	9° Mp 41'14			11892 Aug 04 23:04	0° m/	
evening rise	11891 Aug 24 16:32	21° Tp 20'04		evening rise	11892 Aug 07 14:32	5° Mp 09'12	
	11891 Aug 29 01:25	0∘ ⊽	10040114		11892 Aug 22 10:17	0∘ ⊽	100450
evening max el	11891 Sep 10 21:24	19° Ω 35'32	19°40'14	evening max el	11892 Aug 23 19:14	1° ≏ 28'10	18°47'29
retrograde	11891 Sep 20 19:32	24° ₽ 32'09		retrograde	11892 Sep 01 04:39	5° Ω 40'30	
desc. node	11891 Sep 21 07:27	24° △ 31'27		evening set	11892 Sep 03 02:33	5° Ω 28'11	
evening set	11891 Sep 22 16:30	24° ≏ 22'21		desc. node	11892 Sep 07 04:50	3° Ω 49'01	
inferior conj	11891 Oct 01 12:10	20° ≏ 18'49		inferior conj	11892 Sep 11 05:56	1° Ω 07'00	
minimum elong	11891 Oct 01 04:00	20° ≏ 31'36	3°04'57	minimum elong	11892 Sep 11 02:45	1° ≏ 12'46	1°15'00
min. Earth dist.	11891 Oct 03 17:13	18° ≏ 55'56	0.55323 AU		11892 Sep 12 18:35	30°₽, Mp	
morning rise	11891 Oct 09 13:40	15° ≏ 57'48		min. Earth dist.	11892 Sep 14 07:54	28° m 53'14	0.56848 AU
direct	11891 Oct 14 12:36	15° ≏ 03'29		morning rise	11892 Sep 18 23:35	26° Mp 08′28	
morning max el	11891 Oct 28 09:21	21° ≏ 57'19	24°50'01	direct	11892 Sep 24 16:46	24° m 49'21	
	11891 Nov 04 10:51	0° M			11892 Oct 06 11:30	0∘ ⊽	
asc. node	11891 Nov 14 23:41	16° ™ 39′02		morning max el	11892 Oct 08 23:09	2° ≏ 13'30	26°24'25
	11891 Nov 21 18:06	0° ∡ ¹			11892 Oct 28 17:13	0° M	
morning set	11891 Nov 23 07:51	3° ∡ °20′10		asc. node	11892 Oct 31 20:31	5°M53'34	
				morning set	11892 Nov 06 18:27	17°M59'00	
superior conj	11891 Nov 30 03:15	18° ∡ 13'56	1°38'56		11892 Nov 12 05:59	0°⊀	
minimum elong	11891 Nov 30 03:05	18° ≯ 13'03	1°39'42				
max. Earth dist.	11891 Dec 01 23:55	22° ≯ 18′02	1.32307 AU	superior conj	11892 Nov 13 14:19	2° ₹ 59'58	1°35'13

minimum elong	11892 Nov 13 13:09	2° ∡ '53'28	1°35'50	superior conj	11893 Oct 29 02:01	17° M .43'57	1°25'47
max. Earth dist.	11892 Nov 14 06:50	4° x ⁷ 31'46	1.31566 AU	minimum elong	11893 Oct 29 00:07	17°M33'21	1°26'07
evening rise	11892 Nov 20 12:26	18° × 705'19	1.51500110	minimum crong	11893 Nov 03 15:06	0° ⊼	1 2007
e vennig 1150	11892 Nov 26 10:25	0°궁		evening rise	11893 Nov 04 19:39	2° × 733'54	
desc. node	11892 Dec 04 02:11	13° る 37'24			11893 Nov 19 09:05	0°る	
	11892 Dec 15 10:58	0° ≈		desc. node	11893 Nov 20 23:19	2° る 29'36	
evening max el	11892 Dec 21 22:21	7° ≈ 04'37	27°15'55	evening max el	11893 Dec 03 22:35	18° る 43'03	26°25'23
retrograde	11893 Jan 04 20:21	14° ≈ 19′24		retrograde	11893 Dec 17 21:18	25° る 49'18	
evening set	11893 Jan 11 18:31	12° ≈ 10′27		evening set	11893 Dec 24 10:01	24° る 05'20	
min. Earth dist.	11893 Jan 15 12:51	9° ≈ 24'33	0.60953 AU	min. Earth dist.	11893 Dec 28 12:13	21° る 29'30	0.58811 AU
inferior conj	11893 Jan 18 15:39	6° ≈ 42'36	-2°56'26	inferior conj	11893 Dec 31 15:47	19° る 07'00	-4°14'31
minimum elong	11893 Jan 18 21:45	6° ≈ 29′20	2°53'28	minimum elong	11894 Jan 01 00:01	18° る 51'27	4°11'17
morning rise	11893 Jan 26 03:51	1° ≈ 49'23		morning rise	11894 Jan 08 16:51	14° る 35'13	
asc. node	11893 Jan 27 19:46	1° ≈ 31'42		direct	11894 Jan 10 19:05	14° る 20'05	
direct	11893 Jan 28 06:57	1° ≈ 30'47		asc. node	11894 Jan 14 17:02	15° る 16'03	
morning max el	11893 Feb 04 10:13	5° ≈ 05'44	17°55'27	morning max el	11894 Jan 18 20:20	18° る 17'44	18°23'55
morning set	11893 Feb 20 00:42	29° ≈ 33'47			11894 Jan 27 07:17	0° ≈	
	11893 Feb 20 06:27	0° ∀		morning set	11894 Feb 03 16:29	13° ≈ 35′18	
					11894 Feb 12 08:43	0° ∀	
superior conj	11893 Mar 02 11:59	18° ¥ 20′53					
minimum elong	11893 Mar 02 11:44	18° 米 19'51	0°02'45	superior conj	11894 Feb 12 20:27	0°) 53′57	
behind sun begin	11893 Mar 02 03:39	17°) 44′35		minimum elong	11894 Feb 12 22:39	1°) €04'00	0°32'08
behind sun end	11893 Mar 02 19:50	18° ¥ 55′01		desc. node	11894 Feb 16 23:21	8°) €19'57	
desc. node	11893 Mar 02 02:42	17°) (40′29		max. Earth dist.	11894 Feb 20 08:38	14°) € 14'09	1.40697 AU
The state of	11893 Mar 09 08:56	0°Υ 1°Ω°0°2°5	1 10710 177	evening rise	11894 Feb 24 18:58	21°) (41'10	
max. Earth dist.	11893 Mar 09 23:35	1°Υ00'25	1.42740 AU		11894 Mar 01 22:45	0° Υ	
evening rise	11893 Mar 16 01:53	10° Y 49'49 0° と			11894 Mar 22 18:42	0° と 9° と 42'06	22820124
arranina marral	11893 Mar 28 16:35	25° 8 53'15	22°08'55	evening max el	11894 Mar 31 04:05	16° 8 00'07	23°29'24
evening max el	11893 Apr 17 12:52 11893 Apr 22 11:51	25 O 55 15 0° Ⅱ	22 08 33	retrograde asc. node	11894 Apr 10 20:34 11894 Apr 12 14:19	15° 8 45'59	
asc. node	11893 Apr 25 16:59	0 H 1°H21'43		evening set	11894 Apr 15 23:41	13° 8 50'59	
retrograde	11893 Apr 27 01:27	1° Д 30'26		inferior conj	11894 Apr 21 09:21	7° 8 23'44	2°27'08
retrograde	11893 May 01 04:34	30°R B		minimum elong	11894 Apr 21 07:14	7° 8 31'01	2°26'10
evening set	11893 May 01 17:06	29° 8 35'13		min. Earth dist.	11894 Apr 20 19:40	8° 8 10'44	0.68666 AU
inferior conj	11893 May 07 00:09	23° 8 14'52	2°53'23	morning rise	11894 Apr 26 14:44	1° 8 18'17	0.00000710
minimum elong	11893 May 06 22:27	23° 8 20'48	2°52'30	morning rise	11894 Apr 28 19:56	30°RY	
min. Earth dist.	11893 May 06 22:51	23° 8 19'22	0.68762 AU	direct	11894 Apr 30 20:29	29° Y '37'33	
morning rise	11893 May 12 03:38	17° 8 02'43			11894 May 02 23:16	0°8	
direct	11893 May 16 22:24	15° 8 00'54		morning max el	11894 May 09 02:09	4° 8 19'58	20°47'40
morning max el	11893 May 26 08:39	20° 8 32'45	22°09'00	desc. node	11894 May 16 00:56	12° 8 30'14	
desc. node	11893 May 29 04:05	23° 8 34'10			11894 May 28 09:28	Π°	
	11893 Jun 03 09:25	$\Pi^{\circ}0$		morning set	11894 Jun 07 23:00	16° Ⅱ 04'31	
	11893 Jun 24 00:15	0 \circ \odot		max. Earth dist.	11894 Jun 16 02:14	28° Ⅱ 58'42	1.43262 AU
morning set	11893 Jun 28 11:05	7° © 04'25			11894 Jun 16 17:22	0 \circ \odot	
max. Earth dist.	11893 Jul 03 20:18	15° © 55'07	1.41253 AU				
				superior conj	11894 Jun 22 21:58	10° © 13'23	-1°57'43
superior conj	11893 Jul 11 14:49	29° © 18'37	-1°30'34	minimum elong	11894 Jun 23 04:25	10° © 40'32	1°58'03
minimum elong	11893 Jul 11 21:06		1°30'31		11894 Jul 04 08:07	0 \circ Ω	
	11893 Jul 12 00:08	0 $^{\circ}\Omega$		evening rise	11894 Jul 04 22:49	1° Ω 05′06	
evening rise	11893 Jul 22 02:06	18° Ω 27'45		asc. node	11894 Jul 09 12:51	9° Ω 10'31	
asc. node	11893 Jul 22 15:59	19° £ 32′21		evening max el	11894 Jul 21 15:02	27° Ω 04'50	18°03'48
	11893 Jul 28 09:37	0° m)			11894 Jul 25 19:21	0° m/	
evening max el	11893 Aug 07 02:28	14° Mp 01'04	18°15'45	retrograde	11894 Jul 28 05:08	0° m/28'01	
retrograde	11893 Aug 14 08:40	17° Mp 41'24		evening set	11894 Jul 30 17:41	29° Ω 57'59	
evening set	11893 Aug 16 13:09	17° M) 22'05	0021157	:	11894 Jul 30 15:35	30°RΩ	1927/29
inferior conj minimum elong	11893 Aug 23 21:30	12° m/40'27 12° m/38'53	0°21'56 0°21'21	inferior conj minimum elong	11894 Aug 06 08:56 11894 Aug 06 11:23	24° Ω 56'29 24° Ω 50'27	1°36'28 1°35'09
•	11893 Aug 23 22:14	-	0 21 21	•	=		
desc. node min. Earth dist.	11893 Aug 25 02:16 11893 Aug 27 05:38	11°m ₀ 38'55 9°m ₀ 51'19	0.58916 AU	min. Earth dist. desc. node	11894 Aug 09 11:46 11894 Aug 11 23:39	21° Ω 54'15 19° Ω 45'50	0.61200 AU
min. Earth dist.	11893 Aug 27 05:38 11893 Aug 31 03:52	7° My 06'58	0.50710 AU	morning rise	11894 Aug 11 23:39 11894 Aug 13 02:27	$19^{\circ} 0.45^{\circ} 30$ $18^{\circ} \Omega 57^{\circ} 35$	
direct	11893 Aug 31 03:32 11893 Sep 06 11:18	5° Mg 18'59		direct	11894 Aug 13 02:27 11894 Aug 19 17:48	$16^{\circ} \Omega 43'15$	
morning max el	11893 Sep 00 11:18 11893 Sep 20 19:51	13° Mp 04'57	27°29'33	morning max el	11894 Sep 02 23:26	24° Ω 41'49	27°57'02
morning max or	11893 Oct 04 06:07	ე∘ ত	2, 2, 33	morning max or	11894 Sep 07 19:28	0° m)	2, 3102
asc. node	11893 Oct	0 — 25° ≏ 28'51			11894 Sep 27 15:49	0° ي س	
	11893 Oct 20 22:18	0° M		asc. node	11894 Oct 05 14:01	° – 15° ≏ 18'55	
morning set	11893 Oct 20 22:10	2°M25'28		morning set	11894 Oct 06 04:47	16° ≏ 34'55	
max. Earth dist.	11893 Oct 28 15:41	16°M46'21	1.31323 AU	max. Earth dist.	11894 Oct 11 22:55	28° ♀ 53'25	1.31597 AU

	11894 Oct 12 11:02	0° M			11895 Sep 02 22:14	0° m	
					11895 Sep 19 20:06	0∘ ಹ	
superior conj	11894 Oct 13 12:33	2°M20'48	1°10'49	morning set	11895 Sep 20 00:21	0° ჲ 21'15	
minimum elong	11894 Oct 13 10:19	2°M08'24	1°10'50	asc. node	11895 Sep 22 10:42	5° ≏ 18'20	
evening rise	11894 Oct 20 05:54	17°M08'31		max. Earth dist.	11895 Sep 25 00:42	10° ≏ 43'16	1.32388 AU
	11894 Oct 26 11:59	0° ∡					
desc. node	11894 Nov 07 20:32	20° ∡ ¹29'15		superior conj	11895 Sep 27 19:56	16° ≏ 44'30	0°50'29
evening max el	11894 Nov 15 14:41	29° ∡ ′30′17	25°04'26	minimum elong	11895 Sep 27 17:52	16° ≏ 33'17	0°50'16
	11894 Nov 16 03:22	0° ろ			11895 Oct 03 22:00	0° M	
retrograde	11894 Nov 29 10:35	6° る 26'17		evening rise	11895 Oct 04 17:15	1° M 43'31	
evening set	11894 Dec 05 02:57	5° る 13'41			11895 Oct 20 01:46	0° ∡ ¹	
min. Earth dist.	11894 Dec 10 02:40	2° る 31'24	0.56849 AU	desc. node	11895 Oct 25 17:50	7° ∡ 16'27	
inferior conj	11894 Dec 12 19:51	0° る 44'33	-5°19'36	evening max el	11895 Oct 28 01:09	9° ∡ ¹40'19	23°25'22
minimum elong	11894 Dec 13 03:05	0° る 32'40	5°17'31	retrograde	11895 Nov 10 10:49	16° ∡ ¹20'56	
	11894 Dec 13 23:11	30°₽ ⋌ 7		evening set	11895 Nov 14 19:56	15° ∡ ³39'16	
morning rise	11894 Dec 21 05:27	26° ∡ ³34'38		min. Earth dist.	11895 Nov 21 11:02	12° ∡ ³31'51	0.55352 AU
direct	11894 Dec 23 13:06	26° ∡ 19'12		inferior conj	11895 Nov 23 03:47	11° ∡ ³32'17	-5°50'59
	11894 Dec 31 23:34	0°ප		minimum elong	11895 Nov 23 04:44	11° ∡ ³30'54	5°50'14
asc. node	11895 Jan 01 14:12	0° る 33'10		morning rise	11895 Dec 01 15:15	7° ∡ ¹40'21	
morning max el	11895 Jan 01 20:44	0° る 48'44	19°14'04	direct	11895 Dec 04 11:59	7° ∡ ¹20′28	
morning set	11895 Jan 18 17:24	28° る 00'26		morning max el	11895 Dec 15 08:01	12° × 129'21	20°27'19
	11895 Jan 19 17:24	0° ≈		asc. node	11895 Dec 19 11:16	17° ∡ ′08′16	
					11895 Dec 27 13:52	0°ರ	
superior conj	11895 Jan 26 22:20	14° ≈ 14'52	0°59'41	morning set	11896 Jan 03 00:14	12° る 39'50	
minimum elong	11895 Jan 27 01:16	14° ≈ 29′02	0°59'55				
max. Earth dist.	11895 Feb 02 15:07	26° ≈ 48′01	1.38474 AU	superior conj	11896 Jan 10 13:06	28° る 11'07	1°19'42
desc. node	11895 Feb 03 20:02	28° ≈ 58′00		minimum elong	11896 Jan 10 15:41	28° る 24'08	1°20'10
	11895 Feb 04 09:59	0° ∀			11896 Jan 11 10:40	0° ≈	
evening rise	11895 Feb 06 09:23	3°) €27'58		max. Earth dist.	11896 Jan 15 22:53	8° ≈ 52'04	1.36310 AU
	11895 Feb 23 01:50	0° Υ		evening rise	11896 Jan 19 18:55	16° ≈ 03'31	
evening max el	11895 Mar 13 17:48	23° Y 33'29	24°48'32	desc. node	11896 Jan 21 16:47	19° ≈ 31′00	
	11895 Mar 22 23:22	9° 8			11896 Jan 27 19:01	0° ℋ	
retrograde	11895 Mar 25 11:44	0° 8 24'06			11896 Feb 17 14:05	0° Y	
	11895 Mar 27 20:49	30° ₹Ƴ		evening max el	11896 Feb 24 07:19	7° Y 24'00	25°59'16
asc. node	11895 Mar 30 11:41	28° Ƴ 33'31		retrograde	11896 Mar 07 22:08	14° Ƴ 36'40	
evening set	11895 Mar 31 02:48	28° Y ′03′07		evening set	11896 Mar 14 00:52	12° Y ′07′08	
min. Earth dist.	11895 Apr 04 14:53	22° Y 58'31	0.68135 AU	asc. node	11896 Mar 16 09:02	9° Ƴ 50'34	
inferior conj	11895 Apr 05 16:42	21° Y ′32'59	1°51'07	min. Earth dist.	11896 Mar 18 06:17	7° Ƴ 37'40	0.67182 AU
minimum elong	11895 Apr 05 14:36	21° Y '39'57	1°50'13	inferior conj	11896 Mar 19 20:16	5° Ƴ 39'00	1°05'15
morning rise	11895 Apr 11 02:37	15° Ƴ 35'39		minimum elong	11896 Mar 19 18:45		1°04'40
direct	11895 Apr 14 20:02	14° Y 15′58			11896 Mar 25 07:54	30° ₹	
morning max el	11895 Apr 22 03:09	18° Y °18′45	19°39'04	morning rise	11896 Mar 25 13:18	29° 米 51′25	
	11895 May 01 11:57	0° 8		direct	11896 Mar 28 19:23	28° ¥ 51′07	
desc. node	11895 May 02 21:43	2° 8 00'21			11896 Apr 01 10:25	0° Υ	
greatest brilliancy	11895 May 04 20:17	4° 8 49'26	-0.6m	morning max el	11896 Apr 04 11:42	2° Y °27'12	18°45'58
morning set	11895 May 17 22:59	24° 8 37'07		desc. node	11896 Apr 18 18:25	21° Y ′55'44	
To all III	11895 May 21 10:40	0°Ⅱ 120Ⅲ 40102	1 44565 411		11896 Apr 23 23:20	0°8	
max. Earth dist.	11895 May 29 15:15	12° ∏ 49'03	1.44765 AU	morning set	11896 Apr 26 09:41	3° 8 47'30	1 45701 ATT
superior conj	11895 Jun 03 05:00	20° Ⅱ 06'36	2012/24	max. Earth dist.	11896 May 11 09:13	27° 0 10°24	1.45601 AU
1 3					11006 M 12 16.50	200 🗸 1 4142	2000125
minimum elong	11895 Jun 03 07:15	20° Ⅱ 15'36	2 13 09	superior conj	11896 May 12 16:58	29° 8 14'42	
	11895 Jun 09 07:01	0°55		minimum elong	11896 May 12 11:40	28° 8 53'54 0° Ⅱ	2°08'52
evening rise	11895 Jun 16 23:35	12°548'48			11896 May 13 04:32		
asc. node	11895 Jun 26 09:47	28° © 29'30 0° Ω		evening rise	11896 May 28 00:37 11896 Jun 01 01:03	23° ∏ 32'28 0° ©	
evening max el	11895 Jun 27 08:40 11895 Jul 05 05:10	0 3ℓ 10° Ω 28'42	18°10'37	greatest brilliancy	11896 Jun 03 08:42	0 ৩ 3°©43'01	-0.9m
retrograde	11895 Jul 11 13:41	13° Ω 49'31	16 10 57	asc. node	11896 Jun 12 06:47	17°9522'41	-0.9111
evening set	11895 Jul 14 10:23	13° Ω 06'10		evening max el	11896 Jun 17 17:44	24°504'56	18°35'25
inferior conj	11895 Jul 20 12:11	7° Ω 46'30	2°27'31	retrograde	11896 Jun 24 06:07	24 904 36 27°937'09	10 33 43
minimum elong	11895 Jul 20 12:11 11895 Jul 20 14:43	7° Ω 39'28	2°26'13	evening set	11896 Jun 27 11:04	27 93709 26°938'51	
min. Earth dist.	11895 Jul 23 03:10	4°Ω53'08	0.63407 AU	inferior conj	11896 Jul 03 03:16	20 \$38 31 21°\$02'59	2°58'29
morning rise	11895 Jul 26 17:22	1° Ω 32'20	0.05+07 AU	minimum elong	11896 Jul 03 05:02	21 902 39 20°957'38	2°57'26
morning 1150	11895 Jul 29 04:09	1 8€ 32 20 30° ₹ 55		min. Earth dist.	11896 Jul 05 03:52	20 93738 18°935'32	0.65340 AU
desc. node	11895 Jul 29 04:09 11895 Jul 29 20:59	30°₹≌ 29°©41'18		min. Earth dist.	11896 Jul 03 03:32 11896 Jul 08 22:03	18°933'32 14°9341'41	0.05540 AU
direct	11895 Aug 02 09:43	29 9541 18 28°959'21		direct	11896 Jul 15 09:36	14 941 41 12°900'02	
direct	11895 Aug 02 09:43	28 3 3921		desc. node	11896 Jul 15 18:14	12 \$00 02 12°\$00'29	
morning max el	11895 Aug 00 22:07 11895 Aug 16 07:55	7° Ω 01'07	27°46'26	morning max el	11896 Jul 28 18:47	12 \$300 29 19°\$53'39	27°02'35
	11070 Hug 10 07.33	, 00010/	_, .020	morning max or	-10,000 20 10T/	., —,,,,,,	_, 5_55

	11896 Aug 06 10:12	0°Ω		direct	11897 Jun 28 16:25	25° Ⅲ 36'11	
	11896 Aug 25 23:56	0° m)		desc. node	11897 Jul 28 16:25	26° I 31'51	
morning set	11896 Sep 02 09:59	13° Mp 37'45		desc. node	11897 Jul 02 13:23	0°95	
max. Earth dist.	11896 Sep 06 17:43	22° m) 10'30	1.33692 AU	morning max el	11897 Jul 11 05:38	3°906'56	25°53'40
asc. node	11896 Sep 08 07:22	25° m) 22'55	1.55072 AO	morning max cr	11897 Jul 31 15:46	0° U	23 33 40
use. Houe	11000 Sep 00 07.22	25 m/22 55		morning set	11897 Aug 16 06:09	26° Ω 15'34	
superior conj	11896 Sep 10 22:01	0° - 49'20	0°25'06	morning set	11897 Aug 18 06:27	0° m)	
minimum elong	11896 Sep 10 20:46	0° - 42'44	0°24'47	max. Earth dist.	11897 Aug 20 00:15	3° Mp 18'20	1.35474 AU
minimum crong	11896 Sep 10 12:38	0∘ ⊽	0 21 17	max. Earth dist.	110) / 11ug 20 00:13	3 mg 10 20	1.55 17 1710
evening rise	11896 Sep 18 03:47	ა — 16° ჲ 13'45		superior conj	11897 Aug 25 16:12	14° m) 28'50	-0°04'46
	11896 Sep 24 23:56	0°M		minimum elong	11897 Aug 25 16:29	14° m) 30'19	0°04'59
evening max el	11896 Oct 08 14:22	19° M .47'17	21°45'53	behind sun begin	11897 Aug 25 10:38	14° Mp 00'42	
desc. node	11896 Oct 11 15:10	22°M25'29		behind sun end	11897 Aug 25 22:20	14° m 59'59	
retrograde	11896 Oct 21 00:48	25°M58'19		asc. node	11897 Aug 26 04:03	15° m) 28'56	
evening set	11896 Oct 23 23:51	25°M38'31		evening rise	11897 Sep 02 11:29	0° م 33'41	
inferior conj	11896 Nov 01 21:50	21°M42'26	-5°28'07	S	11897 Sep 02 04:57	0∘ ⊽	
minimum elong	11896 Nov 01 14:29	21°M52'44	5°26'23		11897 Sep 20 04:29	0° M	
min. Earth dist.	11896 Nov 01 17:32	21°ML48'27	0.54605 AU	evening max el	11897 Sep 20 15:11	0°ML27'08	20°20'23
morning rise	11896 Nov 10 06:16	17° M 54'57		desc. node	11897 Sep 28 12:33	5°M28'03	
direct	11896 Nov 13 21:23	17° M 26'13		retrograde	11897 Oct 01 13:03	5°M52'23	
morning max el	11896 Nov 26 05:36	23°M18'39	22°01'40	evening set	11897 Oct 03 14:20	5°M41'43	
S	11896 Dec 02 01:47	0° ∡ ¹		inferior conj	11897 Oct 12 15:10	1° M L44'49	-4°09'29
asc. node	11896 Dec 05 08:16	4° ∡ ¹44'50		minimum elong	11897 Oct 12 05:16	1°M59'21	4°06'09
morning set	11896 Dec 17 10:30	27° ∡ ¹25'41		min. Earth dist.	11897 Oct 14 01:46	0°M54'00	0.54788 AU
S	11896 Dec 18 15:42	0°ಕ			11897 Oct 15 15:37	30° Ŗ Ω	
				morning rise	11897 Oct 20 19:29	27° £ 40'53	
superior conj	11896 Dec 24 13:00	12° る 31'25	1°32'24	direct	11897 Oct 25 06:49	26° £ 57'42	
minimum elong	11896 Dec 24 14:38	12° ප් 40'01	1°33'06		11897 Nov 03 08:20	0° M	
max. Earth dist.	11896 Dec 28 12:04	20° る 43'49	1.34419 AU	morning max el	11897 Nov 07 18:01	3°MJ31'54	23°48'37
evening rise	11897 Jan 01 20:02	29° る 18'05		asc. node	11897 Nov 22 05:11	23°ML08'32	
Č	11897 Jan 02 04:46	0° ≈			11897 Nov 25 22:41	0° ∡ ¹	
desc. node	11897 Jan 07 13:35	9° ≈ 54'02		morning set	11897 Dec 01 22:15	12° ∡ 12'45	
	11897 Jan 19 22:46	0° ∀		C			
evening max el	11897 Feb 05 20:47	21° ⊁ 05'28	26°54'22	superior conj	11897 Dec 08 19:05	27° ∡ ¹07'26	1°38'22
retrograde	11897 Feb 19 02:58	28° ¥ 29′15		minimum elong	11897 Dec 08 19:34	27° ∡ 10′06	1°39'09
evening set	11897 Feb 25 15:56	25° ¥ 56′02		•	11897 Dec 10 03:01	0°ಕ	
min. Earth dist.	11897 Mar 01 15:45	22° ₩ 00'31	0.65832 AU	max. Earth dist.	11897 Dec 11 09:04	2° ⋜ 40'47	1.32942 AU
asc. node	11897 Mar 03 06:23	20° 米 09'04		evening rise	11897 Dec 16 09:18	13° る 03'35	
inferior conj	11897 Mar 03 17:49	19° ¥ 35'51	0°09'16	desc. node	11897 Dec 25 10:30	0°≈02'12	
minimum elong	11897 Mar 03 17:33	19° ¥ 36'37	0°09'22		11897 Dec 25 09:59	0° ≈	
transit middle	11897 Mar 03 17:33	19° ¥ 36'37	0°09'22		11898 Jan 15 02:48	0° ∀	
transit begin	11897 Mar 03 15:09	19°) 43′36		evening max el	11898 Jan 19 09:30	4°) 28′22	27°26'36
transit end	11897 Mar 03 19:57	19° ¥ 29'39		retrograde	11898 Feb 02 01:27	11° ¥ 53'17	
morning rise	11897 Mar 09 20:29	13° ¥ 59'57		evening set	11898 Feb 08 21:49	9° ∺ 23'14	
direct	11897 Mar 12 16:30	13° ¥ 16′04		min. Earth dist.	11898 Feb 12 17:24	5° ¥ 58'57	0.64135 AU
morning max el	11897 Mar 19 01:58	16° ¥ 38'17	18°09'24	inferior conj	11898 Feb 15 06:50	3° ∺ 17'48	-0°56'38
	11897 Mar 29 00:41	0° Υ		minimum elong	11898 Feb 15 08:35	3° ₩ 13'10	0°55'28
desc. node	11897 Apr 05 15:03	12° Y '08'50		asc. node	11898 Feb 18 03:43	0°) 27′01	
morning set	11897 Apr 06 22:46	14° Y 17'00			11898 Feb 18 16:09	30° R ≈	
	11897 Apr 16 18:09	0° 8		morning rise	11898 Feb 21 21:24	27° ≈ 55'58	
				direct	11898 Feb 24 09:01	27° ≈ 24'51	
superior conj	11897 Apr 22 00:31	8°818'08	-1°44'37		11898 Mar 02 00:11	0°) €	
minimum elong	11897 Apr 21 15:09	7° 8 41'24	1°44'12	morning max el	11898 Mar 02 19:15	0°) 44′20	17°49'52
max. Earth dist.	11897 Apr 24 04:59	11° 8 43'37	1.45693 AU	morning set	11898 Mar 19 16:06	26°) €08'45	
	11897 May 05 22:43	Π $^{\circ}0$		-	11898 Mar 21 22:53	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	11897 May 08 02:41	3° Ⅲ 21'41		desc. node	11898 Mar 23 11:40	2° Y 34'32	
greatest brilliancy	11897 May 20 03:18	21° Ⅲ 51'47	-0.7m				
	11897 May 25 17:40	0°€		superior conj	11898 Apr 01 21:20	18° Y 03'13	-1°07'17
asc. node	11897 May 30 03:51	5°5941'04		minimum elong	11898 Apr 01 14:15	17° Y 34'38	
evening max el	11897 Jun 01 02:24	7°5947'24	19°17'24	max. Earth dist.	11898 Apr 06 23:58	26° Ƴ 12'38	1.45049 AU
retrograde	11897 Jun 08 03:00	11° 5 43'33			11898 Apr 09 09:45	0°8	
evening set	11897 Jun 11 16:38	10°529'23		evening rise	11898 Apr 17 15:07	12° 8 44'13	
inferior conj	11897 Jun 17 02:45	4°939'00	3°13'06	-	11898 Apr 29 01:33	0° I I	
minimum elong	11897 Jun 17 03:25	4° © 36'49	3°12'15	evening max el	11898 May 15 05:43	21° Ⅲ 32'29	20°14'50
min. Earth dist.	11897 Jun 18 12:34	2°5548'48	0.66880 AU	asc. node	11898 May 17 01:00	23° Ⅱ 13'20	
	11897 Jun 20 20:19	30°R Ⅱ		retrograde	11898 May 23 01:40	26° Ⅱ 02'57	
morning rise	11897 Jun 22 13:40	28° I I16'27		evening set	11898 May 27 00:45	24° Ⅲ 32'35	
<i>3</i>		/		<i>3</i>	,		

inferior conj minimum elong min. Earth dist.	11898 Jun 01 07:45 11898 Jun 01 07:20 11898 Jun 02 03:20	18° Д 29'12 18° Д 30'36 17° Д 22'24	3°14'17 3°13'30 0.67980 AU	min. Earth dist.	11899 May 16 22:05 11899 May 18 11:37 11899 May 21 19:33	2°Ⅱ08'14 30°R ႘ 26° ႘ 14'17	0.68611 AU
morning rise direct desc. node	11898 Jun 06 13:38 11898 Jun 12 04:57 11898 Jun 19 12:31	12° Д 09'10 9° Д 39'06 12° Д 47'51 16° Д 30'47	2492020	direct morning max el desc. node	11899 May 26 22:03 11899 Jun 06 01:51 11899 Jun 06 09:31	24° 8 00'55 0° П 02'25 0° П 21'52 0° П	22°59'37
morning max el	11898 Jun 23 15:28 11898 Jul 04 19:34 11898 Jul 24 15:08 11898 Jul 29 08:16	0°S 0°Ω 8°Ω02'22	24°29'20	morning set max. Earth dist.	11899 Jun 06 00:54 11899 Jun 28 14:57 11899 Jul 10 11:32 11899 Jul 14 20:33	0°9 18°946'31 26°909'23	1.39962 AU
max. Earth dist.	11898 Aug 01 22:50	14° Ω 26'48	1.37637 AU	max. Earth tist.	11899 Jul 17 01:46	0°Ω	1.39902 AU
superior conj	11898 Aug 08 23:12	27° Ω 34'16		superior conj	11899 Jul 22 15:08	9° Ω 56′50	
minimum elong	11898 Aug 09 01:45	27° Ω 46'33	0°37'52	minimum elong	11899 Jul 22 20:13	10° Ω 20'09	1°11'47
asc. node	11898 Aug 10 05:15 11898 Aug 13 00:44	0° Ту 5° Ту 32'05		asc. node evening rise	11899 Jul 30 21:31 11899 Aug 01 07:58	25° Ω 29'03 28° Ω 13'43	
evening rise	11898 Aug 17 13:52	14° m) 36'05		evening rise	11899 Aug 02 06:14	0°m	
	11898 Aug 25 16:53	0∘ ⊽		evening max el	11899 Aug 17 08:27	24° m 04'59	18°31'26
evening max el	11898 Sep 03 06:02	11° ≏ 53'40	19°15'12	retrograde	11899 Aug 25 04:40	28° m 01'35	
retrograde	11898 Sep 12 11:34	16° ≏ 29'49		evening set	11899 Aug 27 05:13	27° m 46'39	
evening set	11898 Sep 14 07:50	16° ≙ 19'34		desc. node	11899 Sep 02 07:24	24° Mp 34'36	
desc. node	11898 Sep 15 09:59	16° ≏ 04'22		inferior conj	11899 Sep 04 00:27	23° Mp 16'40	
inferior conj	11898 Sep 22 21:25	12° ₾ 09'39		minimum elong	11899 Sep 03 23:12	23° m 19'06	0°31'40
minimum elong min. Earth dist.	11898 Sep 22 15:18	12° £ 19'50	2°17'44	min. Earth dist.	11899 Sep 07 06:42	20° Mp 45'40	0.57691 AU
morning rise	11898 Sep 25 13:30 11898 Sep 30 20:03	10° £ 23'36 7° £ 33'08	0.55888 AU	morning rise direct	11899 Sep 11 13:43 11899 Sep 17 13:48	18° Mp 02'45 16° Mp 31'33	
direct	11898 Oct 06 03:18	6° £ 28'40		morning max el	11899 Oct 01 21:23	24° Mp 05'01	26°56'19
morning max el	11898 Oct 20 05:02	13° £ 36'45	25°32'46	morning max or	11899 Oct 07 06:49	0° ⊡	20 30 17
<i>y</i>	11898 Nov 02 01:53	0° M ,			11899 Oct 26 04:19	0° M .	
asc. node	11898 Nov 09 02:03	12°ML06'52		asc. node	11899 Oct 26 22:52	1°ML30'51	
morning set	11898 Nov 16 09:44	26°M55'19		morning set	11899 Oct 31 19:17	11°M29'06	
	11898 Nov 17 19:56	0° ∡ ¹					
		=		superior conj	11899 Nov 07 16:29	26°M36'33	1°31'54
superior conj	11898 Nov 23 04:55	11° 🗷 51'09	1°38'04	minimum elong	11899 Nov 07 14:58	26°M28'04	1°32'24
minimum elong max. Earth dist.	11898 Nov 23 04:18 11898 Nov 24 13:07	11° х ⁴47'45 14° х ⁴48'41	1°38'47 1.31932 AU	max. Earth dist.	11899 Nov 07 21:27 11899 Nov 09 05:01	27° ™ 04'14 0° √	1.31409 AU
evening rise	11898 Nov 30 07:33	27° х 11'07	1.31932 AU	evening rise	11899 Nov 14 12:11	11° ∡ ³33'55	
evening 113e	11898 Dec 01 16:25	0° る		evening rise	11899 Nov 23 20:50	0° 궁	
desc. node	11898 Dec 12 07:30	19° る 48'15		desc. node	11899 Nov 29 04:35	9° ට 03'26	
	11898 Dec 18 17:48	0° ≈		evening max el	11899 Dec 15 00:19	29° පි 28'32	26°58'34
evening max el	11899 Jan 01 19:37	17° ≈ 20′23	27°29'30		11899 Dec 15 13:51	0° ≈	
retrograde	11899 Jan 15 16:28	24° ≈ 39′17		retrograde	11899 Dec 28 22:36	6° ≈ 38'48	
evening set	11899 Jan 22 15:42	22° ≈ 20′29		evening set	11900 Jan 04 18:02	4° ≈ 39'42	
min. Earth dist.	11899 Jan 26 09:25	19° ≈ 22'39	0.62163 AU	min. Earth dist.	11900 Jan 08 14:40	1°≈59'47	0.60039 AU
inferior conj	11899 Jan 29 08:18	16°≈37'09			11900 Jan 11 01:30	30°₹₹	2020100
minimum elong asc. node	11899 Jan 29 12:45 11899 Feb 05 01:02	16°≈26'42 11°≈42'30	2°08'43	inferior conj minimum elong	11900 Jan 11 18:43 11900 Jan 12 01:56	29°る24'27 29°る09'40	-3°30'09 3°26'55
morning rise	11899 Feb 05 01:02 11899 Feb 05 12:25	11°≈4230		morning rise	11900 Jan 12 01:30 11900 Jan 19 12:39	29 30940 24° る 39'49	3 20 33
direct	11899 Feb 07 17:48	11°≈10'05		direct	11900 Jan 21 14:56	24° ට 23'01	
morning max el	11899 Feb 14 12:31	14° ≈ 36'49	17°48'04	asc. node	11900 Jan 22 22:20	24° පි 29'49	
-	11899 Feb 25 04:13	0°)		morning max el	11900 Jan 29 02:18	28° ට 06'19	18°05'03
morning set	11899 Mar 02 08:18	9°) €05'41			11900 Jan 30 20:23	0° ≈	
desc. node	11899 Mar 10 08:18	23°) €08'35		morning set	11900 Feb 13 17:00	22° ≈ 48'13	
		2001/545	0005140		11900 Feb 17 13:52	0° ℋ	
superior conj	11899 Mar 13 17:31 11899 Mar 13 15:02	28°) 54'57 28°) 44'27		superior conj	11900 Feb 23 13:49	10°) 54'07	0°12'42
minimum elong	11899 Mar 14 08:58	28 χ 44 27 0° Υ	0 23 20	minimum elong	11900 Feb 23 14:50	10 X 54 07 10° X 58'40	0°12'42 0°12'52
max. Earth dist.	11899 Mar 20 16:30	10° Y 24'17	1.43740 AU	behind sun begin	11900 Feb 23 10:13	10°) 38'04	0 12 32
evening rise	11899 Mar 28 05:29	22° Y 20′29		behind sun end	11900 Feb 23 19:28	11°) 19'15	
S	11899 Apr 02 05:23	0°8		desc. node	11900 Feb 25 04:54	13°) 46′55	
	11899 Apr 23 10:36	Π°		max. Earth dist.	11900 Mar 03 04:52	24°) €03'58	1.41907 AU
evening max el	11899 Apr 28 03:29	5° Ⅱ 18'59	21°24'47		11900 Mar 06 19:13	0° Y	
asc. node	11899 May 03 22:14	9° Ⅱ 45'34		evening rise	11900 Mar 08 10:50	2° Y 40'02	
retrograde	11899 May 07 00:08	10° Ⅱ 30'36			11900 Mar 26 14:29	0° 8	
evening set	11899 May 11 09:33	8° Ⅱ 44'12	2004101	evening max el	11900 Apr 10 20:32	19° 8 06'20	22°42'56
inferior conj	11899 May 16 15:58	2° Ⅱ 29'34		retrograde	11900 Apr 20 20:48	25° 8 01'00	
minimum elong	11899 May 16 14:39	2° ∏ 34′08	5-05-11	asc. node	11900 Apr 20 19:33	25° 8 00'59	

evening set	11900 Apr 25 17:23	22° 8 59'28		evening set	11901 Apr 09 22:41	7° 8 14'17	
inferior conj	11900 Apr 23 17:23 11900 May 01 01:20	16° 8 35'56	2°43'27	min. Earth dist.	11901 Apr 09 22:41 11901 Apr 14 15:00	1° 8 49'25	0.68493 AU
,	11900 May 01 01.20 11900 Apr 30 23:24	16° 8 42'37	2°42'31	inferior conj	11901 Apr 14 13:00 11901 Apr 15 09:58	0° 8 45'08	0.08493 AU 2°13'04
minimum elong min. Earth dist.	*	16° 8 59'03	0.68777 AU	3	11901 Apr 15 09:38 11901 Apr 15 07:48	0° 8 52'29	
	11900 Apr 30 18:41	10° 8 26'45	0.08/// AU	minimum elong		0 3 32 29 30° ₹ Υ	2 12 00
morning rise	11900 May 06 05:19 11900 May 10 18:33	8° 8 33'49			11901 Apr 15 23:18 11901 Apr 20 16:58	30° Κ Ι 24° Υ 43'08	
direct	,		21022114	morning rise			
morning max el	11900 May 19 15:57	_	21°33'14	direct	11901 Apr 24 17:17	23°Υ11'42	20016146
desc. node	11900 May 24 06:25	18° 8 52'19		morning max el	11901 May 02 12:37	27° Y 35'49	20°16'46
	11900 Jun 01 15:43	0°II			11901 May 04 18:42	0°8	
morning set	11900 Jun 20 12:55	28° Ⅱ 21'19		desc. node	11901 May 11 03:13	8° 8 03'55	
	11900 Jun 21 13:45	0° ©			11901 May 26 02:58	0°П	
max. Earth dist.	11900 Jun 26 23:05	8° © 44'00	1.42161 AU	morning set	11901 May 30 17:22	7° ∏ 02'40	
		_		max. Earth dist.	11901 Jun 09 08:05	22° ∏ 08′26	1.43972 AU
superior conj	11900 Jul 04 11:22	21° © 25'29			11901 Jun 14 04:39	0 \circ ∞	
minimum elong	11900 Jul 04 18:07	21° © 54'47	1°43'12			_	
	11900 Jul 09 08:19	0 \circ Ω		superior conj	11901 Jun 15 08:07	1° 9 52'40	
evening rise	11900 Jul 15 13:48	11° Ω 16′16		minimum elong	11901 Jun 15 13:24	2° 5 014'28	2°06'26
asc. node	11900 Jul 17 18:19	15° Ω 15'16		evening rise	11901 Jun 28 02:38	23° © 31'54	
	11900 Jul 26 09:16	0° m y			11901 Jul 01 20:16	$0^{\circ}\Omega$	
evening max el	11900 Jul 31 18:23	6° Mp 51'52	18°08'13	asc. node	11901 Jul 04 15:12	4° Ω 45'49	
retrograde	11900 Aug 07 16:25	10° m 23'17		evening max el	11901 Jul 15 07:56	20° Ω 04'31	18°04'25
evening set	11900 Aug 10 00:16	9° ™ 59'47		retrograde	11901 Jul 21 18:39	23° Ω 25′21	
inferior conj	11900 Aug 17 00:55	5° ™ 09'08	0°56'33	evening set	11901 Jul 24 10:32	22° Ω 50′04	
minimum elong	11900 Aug 17 02:38	5° m 05'13	0°55'32	inferior conj	11901 Jul 30 19:35	17° Ω 40'36	2°00'49
desc. node	11900 Aug 20 04:48	2° Mp 18'06		minimum elong	11901 Jul 30 22:13	17° Ω 33'44	1°59'26
min. Earth dist.	11900 Aug 20 07:42	2° m 11'52	0.59881 AU	min. Earth dist.	11901 Aug 02 17:55	14° Ω 39'28	0.62155 AU
	11900 Aug 23 03:17	30° ₽ Ω		morning rise	11901 Aug 06 07:39	11° Ω 33'41	
morning rise	11900 Aug 24 01:53	29° Ω 23′28		desc. node	11901 Aug 07 02:10	11° Ω 02'26	
direct	11900 Aug 30 13:22	27° Ω 24'00		direct	11901 Aug 13 00:02	9° Ω 10′15	
	11900 Sep 07 10:09	0° m)		morning max el	11901 Aug 27 03:32	17° Ω 12'18	27°57'03
morning max el	11900 Sep 13 21:21	5° m) 15'57	27°46'07	Č	11901 Sep 06 18:45	0° m)	
C	11900 Oct 02 07:24	0∘ <u>v</u>			11901 Sep 25 01:28	0∘ <u>v</u>	
asc. node	11900 Oct 13 19:37	21° ≏ 13'16		morning set	11901 Sep 30 01:07	9° ≏ 49'58	
morning set	11900 Oct 16 01:07	25° ≏ 49'23		asc. node	11901 Sep 30 16:17	11° ≏ 07'47	
8	11900 Oct 18 00:20	0° M ₊		max. Earth dist.	11901 Oct 05 11:41	21° ≏ 18'56	1.31864 AU
max. Earth dist.	11900 Oct 22 06:19	9° ™ 18'08	1.31380 AU				
				superior conj	11901 Oct 07 13:22	25° Ω 50'07	1°02'50
superior conj	11900 Oct 23 03:57	11° M L18'17	1°20'05	minimum elong	11901 Oct 07 11:07	25° Ω 37'50	1°02'45
minimum elong	11900 Oct 23 01:51	11°M06'36	1°20'18	g	11901 Oct 09 10:45	0°M	1 02 10
evening rise	11900 Oct 29 20:58	26°M05'59	1 20 10	evening rise	11901 Oct 14 07:53	10°M41'08	
e vennig rise	11900 Oct 25 25:55 11900 Oct 31 17:01	0° ⊼		evening rise	11901 Oct 24 01:17	0° ⊼	
desc. node	11900 Oct 31 17:01 11900 Nov 16 01:45	27° × ⁷ 35'41		desc. node	11901 Nov 02 23:00	15° √ 07'34	
dese. Hode	11900 Nov 17 18:05	0°る		evening max el	11901 Nov 08 09:50	21°×12'24	24°23'30
evening max el	11900 Nov 26 21:02	10°る44'39	25°54'03	retrograde	11901 Nov 22 03:00	28°×103'57	24 23 30
retrograde	11900 Nov 20 21:02 11900 Dec 10 18:43	17° ठ 46'46	23 34 03	evening set	11901 Nov 27 07:05	27°×704'57	
evening set	11900 Dec 10 18:43	16°る15'20		min. Earth dist.	11901 Nov 27 07:03	24°×14'10	0.56133 AU
min. Earth dist.	11900 Dec 17 00:31 11900 Dec 21 09:41		0.57941 AU	inferior conj	11901 Dec 02 21:08 11901 Dec 05 05:51	22° x ⁷ 46'00	
inferior conj	11900 Dec 21 09.41 11900 Dec 24 10:38	13 3 3919		minimum elong	11901 Dec 05 03:31 11901 Dec 05 11:04	22° 🖈 40 00 22° 🖈 37'53	
minimum elong	11900 Dec 24 10:58 11900 Dec 24 18:59	11° る 30°04		morning rise	11901 Dec 03 11:04 11901 Dec 13 17:08	18° × ⁷ 44'57	3 3/04
•	11900 Dec 24 18:39 11901 Jan 01 16:05	7°る08'02	4 41 31	direct	11901 Dec 15 17:08	18° × 28'20	
morning rise		6° る 53'11					10042125
direct	11901 Jan 03 19:52	8° ろ 55'35		morning max el	11901 Dec 26 04:08	23° 🖈 13'54	19-42-25
asc. node	11901 Jan 09 19:33		10042122	asc. node	11901 Dec 27 16:40	24°ダ47'57 0°る	
morning max el	11901 Jan 12 08:51	11° る 02'49	18°42'33	. ,	11901 Dec 31 18:18		
	11901 Jan 24 21:22	0° ≈		morning set	11902 Jan 12 16:54	21° る 33'25	
morning set	11901 Jan 28 13:09	7° ≈ 01'31			11902 Jan 16 20:51	0° ≈	
annari '	11001 E-L 07 07 22	22040154	0044141	annori	11002 I 20 1416	7027124	1000105
superior conj	11901 Feb 06 06:22	23°≈49'54	0°44'41	superior conj	11902 Jan 20 14:16	7°≈27'24	1°09'05
minimum elong	11901 Feb 06 09:02	24°≈02'28	0°44'49	minimum elong	11902 Jan 20 17:08	7°≈41'36	1°09'24
	11901 Feb 09 14:22	0°){		max. Earth dist.	11902 Jan 26 18:39	19°≈18'29	1.37530 AU
desc. node	11901 Feb 12 01:34	4°) €26'22	1.00=== :==	desc. node	11902 Jan 29 22:15	25°≈02'38	
max. Earth dist.	11901 Feb 13 12:40	7°) €01'17	1.39756 AU	evening rise	11902 Jan 30 12:01	26°≈03'54	
evening rise	11901 Feb 17 13:05	13°) € 55′24			11902 Feb 01 17:54	0°) €	
	11901 Feb 27 13:12	0° Υ		_	11902 Feb 21 02:19	0°Υ	
_	11901 Mar 21 16:02	0° 8		evening max el	11902 Mar 07 00:05	16° ℃ 46'31	25°20'02
evening max el	11901 Mar 24 10:43	_	24°03'32	retrograde	11902 Mar 19 03:51	23° Y 48'43	
retrograde	11901 Apr 04 14:25	9° 8 29'06		evening set	11902 Mar 24 23:52	21° Y 23'33	
asc. node	11901 Apr 07 16:53	8° 8 44'54		asc. node	11902 Mar 25 14:14	20° Y 51'40	

	11000 16 00 00 55	1.600000000	0.68886.433		1100237 02 12 00	70 0 052112	
min. Earth dist.	11902 Mar 29 08:55	16° Y 33'51	0.67776 AU	retrograde	11903 Mar 02 12:00	7° Y 53'12	
inferior conj	11902 Mar 30 15:56	14° Y 53'18	1°32'54	evening set	11903 Mar 08 19:11	5° Y 21'43	
minimum elong	11902 Mar 30 14:01	14° Y 59'33	1°32'05	asc. node	11903 Mar 12 11:36	1° Ƴ 37'50	
morning rise	11902 Apr 05 04:34	8° Ƴ 59'48		min. Earth dist.	11903 Mar 12 22:11	1° Y 06'34	0.66653 AU
direct	11902 Apr 08 16:55	7° Ƴ 48'48			11903 Mar 13 20:15	30° ₹ ₩	
morning max el	11902 Apr 15 16:57	11° Ƴ 39'04	19°14'26	inferior conj	11903 Mar 14 17:14	28°) 56′04	0°42'44
desc. node	11902 Apr 27 23:57	27° Ƴ 45'32		minimum elong	11903 Mar 14 16:09	28° ¥ 59′21	0°42'24
greatest brilliancy	11902 Apr 28 13:53	28° Ƴ 37'19	-0.7m	morning rise	11903 Mar 20 14:02	23° 升 12′52	
	11902 Apr 29 12:01	9° 8		direct	11903 Mar 23 15:40	22° ∺ 19'54	
morning set	11902 May 09 19:01	15° 8 42'52		morning max el	11903 Mar 30 04:07	25°) 48'48	18°28'15
	11902 May 19 00:00	$\Pi^{\circ}0$			11903 Apr 02 20:06	0° Y	
max. Earth dist.	11902 May 22 22:53	6° Ⅱ 11'37	1.45201 AU	desc. node	11903 Apr 14 20:37	17° Ƴ 49'00	
				morning set	11903 Apr 19 15:52	25° Ƴ 23'48	
superior conj	11902 May 26 05:51	11° Ⅲ 23′12	-2°13'14		11903 Apr 22 13:49	0°8	
minimum elong	11902 May 26 04:58	11° Ⅱ 19'43	2°13'59		•		
C	11902 Jun 06 19:01	0ം ഉ		superior conj	11903 May 05 13:40	20° 8 23'05	-2°00'31
evening rise	11902 Jun 09 17:33	4°950'00		minimum elong	11903 May 05 05:49	19° 8 52'25	
asc. node	11902 Jun 21 12:09	23°954'53		max. Earth dist.	11903 May 05 17:45	20° 8 39'03	1.45732 AU
use. Hour	11902 Jun 25 19:05	0°Ω		man. Bartir dist.	11903 May 11 17:15	0°II	1.10,02110
evening max el	11902 Jun 28 21:45	3° Ω 34'41	18°19'06	evening rise	11903 May 21 08:09	15° I 107'46	
retrograde	11902 Jul 05 06:55	6° Ω 58'45	10 1700	greatest brilliancy	11903 May 30 11:51	29° I 32'36	-0.8m
evening set	11902 Jul 08 07:03	6°Ω09'20		greatest orimane y	11903 May 30 18:54	0°95	0.0111
inferior conj	11902 Jul 08 07:03 11902 Jul 14 04:20	0° Ω 42'54	2°42'50	asc. node	11903 Jun 08 09:10	12° © 34'19	
3	11902 Jul 14 04:20 11902 Jul 14 06:36	0° Ω 36'20	2°41'38		11903 Jun 12 08:58	12 \$34 19 17°\$14'14	18°51'23
minimum elong			2-41/38	evening max el			18-51-23
i To at 11 a	11902 Jul 14 19:07	30°R≌	0.64065.433	retrograde	11903 Jun 19 01:28	20°954'50	
min. Earth dist.	11902 Jul 16 13:30	27°958'26	0.64265 AU	evening set	11903 Jun 22 10:07	19°549'47	2006125
morning rise	11902 Jul 20 04:47	24°524'46		inferior conj	11903 Jun 27 23:20	14°907'47	3°06'27
desc. node	11902 Jul 24 23:27	21°958'15		minimum elong	11903 Jun 28 00:38	14° © 03'39	3°05'31
direct	11902 Jul 26 19:49	21° © 46'27		min. Earth dist.	11903 Jun 29 17:39	11° © 55'07	0.66048 AU
morning max el	11902 Aug 09 13:17		27°31'25	morning rise	11903 Jul 03 14:27	7° © 45'39	
	11902 Aug 09 18:22	0 \circ Ω		direct	11903 Jul 09 22:50	5° © 03'15	
	11902 Aug 31 18:00	0° m)		desc. node	11903 Jul 11 20:42	5°©16'11	
morning set	11902 Sep 13 16:51	23° Mp 25'00		morning max el	11903 Jul 23 00:03	12° © 48'32	26°35'47
	11902 Sep 16 23:19	0∘ ⊽			11903 Aug 05 20:03	$0^{\circ}\Omega$	
asc. node	11902 Sep 17 12:56	1° ≏ 10'06			11903 Aug 24 09:49	0° m ∤	
max. Earth dist.	11902 Sep 18 09:51	2° ≙ 58'38	1.32874 AU	morning set	11903 Aug 27 21:11	6° Mp 25′37	
				max. Earth dist.	11903 Aug 31 22:12	14° m 15'03	1.34396 AU
superior conj	11902 Sep 21 18:48	10° ≏ 07'03	0°40'20	asc. node	11903 Sep 04 09:36	21°M/15'31	
minimum elong	11902 Sep 21 16:59	9° ₽ 57'22					
evening rise	11702 Sep 21 10.67) —3122	0°40'04				
C vening 113C	11902 Sep 28 19:07	25° £ 14'53	0°40'04	superior conj	11903 Sep 05 17:51	24° m 01'49	0°12'58
evening rise			0°40'04	superior conj minimum elong	11903 Sep 05 17:51 11903 Sep 05 17:10	24° m 01'49 23° m 58'15	0°12'58 0°12'40
evening rise	11902 Sep 28 19:07	25° ≙ 14'53	0°40'04		•		
desc. node	11902 Sep 28 19:07 11902 Oct 01 01:14	25° £ 14'53 0° ™	0°40'04	minimum elong	11903 Sep 05 17:10	23° m/ 58'15	
C	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02	25° Ω 14'53 0° M 0° ⊀	0°40'04 22°42'13	minimum elong behind sun begin	11903 Sep 05 17:10 11903 Sep 05 13:32	23° m 58'15 23° m 39'28	
desc. node	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18	25° <u>№</u> 14'53 0° M 0° X 16'56		minimum elong behind sun begin behind sun end	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47	23° m/58'15 23° m/39'28 24° m/17'02	
desc. node evening max el retrograde	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23	25° △ 14'53 0° M 0° ⊀ 1° ₹ 16'56 1° ₹ 17'09 7° ₹ 47'09		minimum elong behind sun begin	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41	23° m 58'15 23° m 39'28 24° m 17'02 0° <u>Ω</u> 9° <u>Ω</u> 41'08	
desc. node evening max el retrograde evening set	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09	25° ♣ 14'53 0° M. 0° ♂ 1° ♂ 16'56 1° ♂ 17'09 7° ♂ 47'09 7° ♂ 16'35	22°42'13	minimum elong behind sun begin behind sun end evening rise	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54	23° m 58'15 23° m 39'28 24° m 17'02 0° Ω 9° Ω41'08 0° M	
desc. node evening max el retrograde evening set min. Earth dist.	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38	25° № 14'53 0° M. 0° 🖈 1° 🖈 16'56 1° 🖈 17'09 7° 🖈 47'09 7° 🖈 16'35 3° 🗷 52'50	22°42'13 0.54930 AU	minimum elong behind sun begin behind sun end evening rise evening max el	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52	23° m 58'15 23° m 39'28 24° m 17'02 0° <u>Ω</u> 9° <u>Ω</u> 41'08 0° M 11° M 34'48	0°12'40
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44	25° № 14'53 0° M. 0° 丞 1° 丞 16'56 1° 丞 17'09 7° 丞 47'09 7° 丞 16'35 3° ℤ 52'50 3° ℤ 15'43	22°42'13 0.54930 AU -5°48'41	minimum elong behind sun begin behind sun end evening rise evening max el desc. node	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40	23° m 58'15 23° m 39'28 24° m 17'02 0° <u>a</u> 9° <u>a</u> 41'08 0° m 11° m 34'48 15° m 35'34	0°12'40
desc. node evening max el retrograde evening set min. Earth dist.	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55	25° № 14'53 0° M. 0° ℤ 1° ℤ 16'56 1° ℤ 17'09 7° ℤ 47'09 7° ℤ 16'35 3° ℤ 52'50 3° ℤ 15'43 3° ℤ 19'44	22°42'13 0.54930 AU -5°48'41	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34	23° m 58'15 23° m 39'28 24° m 17'02 0° Ω 9° Ω 41'08 0° M 11° M 34'48 15° M 35'34 17° M 27'04	0°12'40
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22	25° № 14'53 0° M. 0° ¾ 1° ¾ 16'56 1° ¾ 17'09 7° ¾ 47'09 7° ¾ 16'35 3° ¾ 52'50 3° ¾ 15'43 3° ¾ 19'44 30° RM.	22°42'13 0.54930 AU -5°48'41	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28	23° m 58'15 23° m 39'28 24° m 17'02 0° Ω 9° Ω 41'08 0° M 11° M 34'48 15° M 35'34 17° M 27'04 17° M 12'28	0°12'40 21°07'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 47'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № 11.	22°42'13 0.54930 AU -5°48'41	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34	23° m 58'15 23° m 39'28 24° m 17'02 0° <u>a</u> 9° <u>a</u> 41'08 0° m 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56	0°12'40 21°07'18 -5°00'33
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 44'09 7° № 16'35 3° № 52'50 3° № 15'43 30° № 10.4'21	22°42'13 0.54930 AU -5°48'41	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34 11903 Oct 25 13:09	23° m 58'15 23° m 39'28 24° m 17'02 0° <u>n</u> 9° <u>n</u> 41'08 0° m 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13	0°12'40 21°07'18 -5°00'33 4°57'57
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 44'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № 10.27'26 29° № 27'26 29° № 27'26	22°42'13 0.54930 AU -5°48'41 5°47'50	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34 11903 Oct 25 13:09 11903 Oct 26 11:22	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Oldsymbol{\Omega}\) 9° \(\Oldsymbol{\Omega}\) 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53	0°12'40 21°07'18 -5°00'33
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 44'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № 1. 29° № 27'26 29° № 04'21 0° № 4° № 32'13	22°42'13 0.54930 AU -5°48'41 5°47'50	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Omega\) 9° \(\Omega\) 41'08 0° \(\Omega\) 11° \(\Omega\) 13' \(\Omega\) 13' \(\Omega\) 13' \(\Omega\) 13' \(\Omega\) 12' \(\Omega\) 12' \(\Omega\) 9° \(\Omega\) 13' \(\Omega\) 13' \(\Omega\) 13' \(\Omega\) 12' \(\Omega\) 9° \(\Omega\) 12' \(\Omega\) 9° \(\Omega\) 12' \(\Omega\)	0°12'40 21°07'18 -5°00'33 4°57'57
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42	25° \$\Delta 14'53\) 0° \$\mathbb{N}\$. 0° \$\mathbb{N}\$. 1° \$\mathbb{N}\$ 16'56\) 1° \$\mathbb{N}\$ 17'09\) 7° \$\mathbb{N}\$ 47'09\) 7° \$\mathbb{N}\$ 16'35\) 3° \$\mathbb{N}\$ 25'50\) 3° \$\mathbb{N}\$ 15'43\) 3° \$\mathbb{N}\$ 19'44\) 30° \$\mathbb{N}\$ 1. 29° \$\mathbb{N}\$ 27'26\) 29° \$\mathbb{N}\$ 0.4'21\) 0° \$\mathbb{N}\$ 4° \$\mathbb{N}\$ 32'13\) 11° \$\mathbb{N}\$ 51'04	22°42'13 0.54930 AU -5°48'41 5°47'50	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Omega\) 9° \(\Omega\) 41'08 0° \(\Omega\) 11° \(\Omega\) 13° \(\Omega\) 12' \(\Omega\) 9° \(\Omega\) 13° \(\Omega\) 15' 50	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52	25° № 14'53 0° № 1° № 16'56 1° № 17'09 7° № 47'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № 10. 29° № 27'26 29° № 04'21 0° № 13 4° № 332'13 11° № 51'04 0° ₩	22°42'13 0.54930 AU -5°48'41 5°47'50	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Omega\) 9° \(\Omega\) 41'08 0° m 11° m 34'48 15° m 35'34 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19	0°12'40 21°07'18 -5°00'33 4°57'57
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42	25° \$\Delta 14'53\) 0° \$\mathbb{N}\$. 0° \$\mathbb{N}\$. 1° \$\mathbb{N}\$ 16'56\) 1° \$\mathbb{N}\$ 17'09\) 7° \$\mathbb{N}\$ 47'09\) 7° \$\mathbb{N}\$ 16'35\) 3° \$\mathbb{N}\$ 25'50\) 3° \$\mathbb{N}\$ 15'43\) 3° \$\mathbb{N}\$ 19'44\) 30° \$\mathbb{N}\$ 1. 29° \$\mathbb{N}\$ 27'26\) 29° \$\mathbb{N}\$ 0.4'21\) 0° \$\mathbb{N}\$ 4° \$\mathbb{N}\$ 32'13\) 11° \$\mathbb{N}\$ 51'04	22°42'13 0.54930 AU -5°48'41 5°47'50	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39	23° m 58'15 23° m 39'28 24° m 17'02 0° a 9° a 41'08 0° m 11° m 34'48 15° m 35'34 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27	25° № 14'53 0° M. 0° % 1° % 16'56 1° % 17'09 7° % 47'09 7° % 16'35 3° % 52'50 3° % 15'43 3° % 19'44 30° RM. 29° M.27'26 29° M.04'21 0° % 4° % 32'13 11° % 51'04 0° % 6° % 16'02	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39 11903 Dec 01 13:17	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Omega\) 9° \(\Omega\) 41'08 0° m 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° \(\omega\)	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 47'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № 10.4'21 0° № 4° № 332'13 11° № 51'04 0° № 6° ₺ 16'02	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39 11903 Dec 01 13:17 11903 Dec 12 12:35	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\oldsymbol{\Omega}\) 9° \(\oldsymbol{\Omega}\) 41'08 0° m. 11° m 34'48 15° m 35'34 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° \(\sqrt{\oldsymbol{\Omega}}\) 21° \(\sqrt{\oldsymbol{\Omega}}\) 21° \(\sqrt{\oldsymbol{\Omega}}\) 21° \(\sqrt{\oldsymbol{\Omega}}\) 21° \(\sqrt{\oldsymbol{\Omega}}\) 23° m 39'08	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 09:19	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 47'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 18. 29° № 27'26 29° № 04'21 0° № 4° № 332'13 11° № 51'04 0° ♂ 6° ♂ 16'02	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39 11903 Dec 01 13:17	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Omega\) 9° \(\Omega\) 41'08 0° m 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° \(\omega\)	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 11:32 11903 Jan 08 13:07	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 47'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № № 29° № 27'26 29° № 04'21 0° № 4° № 32'13 11° № 51'04 0° ₭ 6° ₭ 16'02 21° ₭ 34'49 21° ₭ 34'49 21° ₭ 34'49	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01 1°25'56 1°26'30	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Dec 01 10:39 11903 Dec 01 10:39 11903 Dec 12 12:35 11903 Dec 16 16:41	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\Omega\) 9° \(\Omega\) 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° \(\omega\) 21° \(\omega\) 0° \(\omega\)	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU 22°46'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 11:32 11903 Jan 08 13:07 11903 Jan 09 04:04	25° № 14'53 0° № 0° № 1° № 16'56 1° № 17'09 7° № 47'09 7° № 16'35 3° № 52'50 3° № 15'43 3° № 19'44 30° № № 29° № 27'26 29° № 04'21 0° № 4° № 32'13 11° № 51'04 0° ₭ 6° ₭ 16'02 21° ₭ 34'49 21° ₭ 46'15 0° ※ 1° ≈ 13'47	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 22:34 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39 11903 Dec 01 10:39 11903 Dec 11 13:17 11903 Dec 12 12:35 11903 Dec 16 16:41	23° m 58'15 23° m 39'28 24° m 17'02 0° Ω 9° Ω 41'08 0° m 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° ♂ 21° ♂ 03'08 0° ♂	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU 22°46'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 01:32 11903 Jan 08 13:07 11903 Jan 09 04:04 11903 Jan 09 04:04 11903 Jan 09 04:04	25° ₾14'53 0° M. 0° ¾ 1° ¾16'56 1° ¾17'09 7° ¾47'09 7° ¾47'09 7° ¾15'43 3° ¾15'43 3° ¾15'44 30° RM. 29° M.27'26 29° M.04'21 0° ¾ 4° ¾32'13 11° ¾51'04 0° ♂ 6° ♂16'02 21° ♂34'49 21° ♂46'15 0° ≈ 1° ≈13'47 8° ≈57'25	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01 1°25'56 1°26'30	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 07 05:19 11903 Dec 01 10:39 11903 Dec 01 10:39 11903 Dec 11 13:17 11903 Dec 12 12:35 11903 Dec 16 16:41	23° m 58'15 23° m 39'28 24° m 17'02 0° Ω 9° Ω 41'08 0° m 11° m 34'48 15° m 35'34 17° m 27'04 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° ズ 21° ズ 03'08 0° ℧	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU 22°46'18 1°35'43 1°36'28
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 11:32 11903 Jan 08 13:07 11903 Jan 09 04:04 11903 Jan 13 04:40 11903 Jan 13 04:40 11903 Jan 16 19:01	25° ₾14'53 0° M. 0° ¾ 1° ¾16'56 1° ¾17'09 7° ¾47'09 7° ¾47'09 7° ¾15'43 3° ¾15'43 3° ¾15'44 30° RM. 29° M.27'26 29° M.04'21 0° ¾ 4° ¾32'13 11° ¾51'04 0° ♂ 6° ♂16'02 21° ♂34'49 21° ♂46'15 0° ≈ 1° ≈13'47 8° ≈57'25 15° ≈31'52	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01 1°25'56 1°26'30	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39 11903 Dec 01 10:39 11903 Dec 10 16:41 11903 Dec 19 12:09 11903 Dec 19 12:09 11903 Dec 19 13:19 11903 Dec 22 20:47	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\text{\te}\text{\texi\text{\text{\text{\tex{\text{\texit{\text{\text{\text{\text{\text{\text{\texit{\text{\t	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU 22°46'18
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 15 03:55 11902 Nov 21 21:22 11902 Nov 22 17:10 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 01:32 11903 Jan 08 13:07 11903 Jan 09 04:04 11903 Jan 13 04:40 11903 Jan 16 19:01 11903 Jan 25 09:05	25° ₾14'53 0° M. 0° ¾ 1° ¾16'56 1° ¾17'09 7° ¾47'09 7° ¾47'09 7° ¾15'43 3° ¾15'43 3° ¾15'43 3° ¾15'44 30° RM. 29° M.27'26 29° M.04'21 0° ¾ 4° ¾32'13 11° ¾51'04 0° ♂ 6° ♂16'02 21° ♂34'49 21° ♂46'15 0° ≈ 1° ≈13'47 8° ≈57'25 15° ≈31'52 0° ₭	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01 1°25'56 1°26'30	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 07 05:19 11903 Dec 01 10:39 11903 Dec 01 10:39 11903 Dec 10 13:17 11903 Dec 11 13:17 11903 Dec 12 12:35 11903 Dec 19 12:09 11903 Dec 19 13:19 11903 Dec 22 20:47 11903 Dec 22 20:47 11903 Dec 27 11:24	23° m 58'15 23° m 39'28 24° m 17'02 0° Ω 9° Ω 41'08 0° m 11° m 34'48 15° m 35'34 17° m 12'28 13° m 17'56 13° m 31'13 12° m 59'53 9° m 26'11 8° m 51'50 15° m 02'19 29° m 49'06 0° ズ 21° ズ 03'08 0° 云 6° 云 02'35 6° 云 08'46 13° 云 07'36 22° 云 26'22	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU 22°46'18 1°35'43 1°36'28
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11902 Sep 28 19:07 11902 Oct 01 01:14 11902 Oct 19 14:02 11902 Oct 20 20:18 11902 Oct 20 20:23 11902 Nov 02 22:21 11902 Nov 06 16:09 11902 Nov 14 04:38 11902 Nov 15 06:44 11902 Nov 21 21:22 11902 Nov 23 17:10 11902 Nov 26 21:12 11902 Nov 26 21:12 11902 Dec 01 15:25 11902 Dec 08 09:24 11902 Dec 14 13:42 11902 Dec 24 23:52 11902 Dec 28 01:27 11903 Jan 04 09:19 11903 Jan 04 11:32 11903 Jan 08 13:07 11903 Jan 09 04:04 11903 Jan 13 04:40 11903 Jan 13 04:40 11903 Jan 16 19:01	25° ₾14'53 0° M. 0° ¾ 1° ¾16'56 1° ¾17'09 7° ¾47'09 7° ¾47'09 7° ¾15'43 3° ¾15'43 3° ¾15'44 30° RM. 29° M.27'26 29° M.04'21 0° ¾ 4° ¾32'13 11° ¾51'04 0° ♂ 6° ♂16'02 21° ♂34'49 21° ♂46'15 0° ≈ 1° ≈13'47 8° ≈57'25 15° ≈31'52	22°42'13 0.54930 AU -5°48'41 5°47'50 21°05'01 1°25'56 1°26'30 1.35470 AU	minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11903 Sep 05 17:10 11903 Sep 05 13:32 11903 Sep 05 20:47 11903 Sep 08 14:21 11903 Sep 13 04:41 11903 Sep 23 19:54 11903 Oct 02 13:52 11903 Oct 07 17:40 11903 Oct 14 09:34 11903 Oct 16 21:28 11903 Oct 25 13:09 11903 Oct 26 11:22 11903 Nov 03 05:18 11903 Nov 03 05:18 11903 Nov 07 05:19 11903 Nov 20 02:01 11903 Dec 01 10:39 11903 Dec 01 10:39 11903 Dec 10 16:41 11903 Dec 19 12:09 11903 Dec 19 12:09 11903 Dec 19 13:19 11903 Dec 22 20:47	23° m 58'15 23° m 39'28 24° m 17'02 0° \(\text{\te}\text{\texi\text{\text{\text{\tex{\text{\texit{\text{\text{\text{\text{\text{\text{\texit{\text{\t	0°12'40 21°07'18 -5°00'33 4°57'57 0.54572 AU 22°46'18 1°35'43 1°36'28

	11904 Jan 19 02:51	0° ∀			11904 Dec 23 00:14	0° ≈	
evening max el	11904 Jan 31 03:20	14°) 10′42	27°11'18	evening max el	11905 Jan 12 15:10	27° ≈ 21'54	27°31'41
retrograde	11904 Feb 13 14:06	21°) 35'06			11905 Jan 15 15:04	0° ∀	
evening set	11904 Feb 20 06:40	19°) €02'36		retrograde	11905 Jan 26 09:21	4°) (44'35	
min. Earth dist.	11904 Feb 24 04:36	15°) € 20'42	0.65153 AU	evening set	11905 Feb 02 07:50	2° 升 18′02	
inferior conj	11904 Feb 26 11:33	12°) (48'04			11905 Feb 05 03:21	30°R≈	0.62220.437
minimum elong	11904 Feb 26 12:03	12°) (46'40	0°16'58	min. Earth dist.	11905 Feb 06 02:10		0.63329 AU
asc. node	11904 Feb 27 08:57	11°) (48'59		inferior conj	11905 Feb 08 20:04	26°≈21'27	
morning rise	11904 Mar 03 19:00	7° 		minimum elong	11905 Feb 08 22:55	26°≈14'19	1°25'36
direct	11904 Mar 06 11:21	6° 1 39°28 9° 1 58'59	17050150	asc. node	11905 Feb 13 06:19	22°≈25'24	
morning max el	11904 Mar 12 20:02	9° π 3839	17°58'58	morning rise direct	11905 Feb 15 16:16	21°≈06'39 20°≈39'44	
morning set	11904 Mar 26 18:27 11904 Mar 30 17:32	6° Υ 30'51		morning max el	11905 Feb 18 01:01 11905 Feb 24 13:46	20 ≈39 44 24°≈00'44	17°46'56
desc. node	11904 Mar 30 17:32 11904 Mar 31 17:15	8° Υ 08'25		morning max er	11905 Nar 01 10:21	24 ≈00 44 0°) {	17 40 30
desc. node	11904 Wiai 31 17.13	0 1 00 23		morning set	11905 Mar 01 10:21 11905 Mar 12 21:23	18° ¥ 52'52	
superior conj	11904 Apr 14 01:01	29° Y ′39'39	-1°29'53	desc. node	11905 Mar 18 13:51	28°) (32'32'	
minimum elong	11904 Apr 13 16:01	29° Υ '04'00		dese. Hode	11905 Mar 19 09:10	0°Υ	
minimum ciong	11904 Apr 14 06:10	0°8	1 27 13		11703 With 17 07.10	0 1	
max. Earth dist.	11904 Apr 17 14:10	5° 8 15'10	1.45513 AU	superior conj	11905 Mar 25 07:13	9° Y 52'01	-0°49'42
evening rise	11904 Apr 30 02:56	24° 8 42'06	1.13313110	minimum elong	11905 Mar 25 02:04	9° Υ 30'52	
e vennig 1150	11904 May 03 13:45	0°II		max. Earth dist.	11905 Mar 31 08:43	19° Υ 40'02	1.44570 AU
greatest brilliancy	11904 May 13 22:56	15° Ⅱ 41'01	-0.7m		11905 Apr 06 22:33	0°8	
8	11904 May 24 17:09	0ಂತಾ		evening rise	11905 Apr 09 14:17	4° 8 05'51	
asc. node	11904 May 25 06:18	0°534'50		Ü	11905 Apr 27 00:47	0°II	
evening max el	11904 May 25 15:33	0°\$58'28	19°40'02	evening max el	11905 May 08 16:23	14° Ⅱ 43'48	20°43'10
retrograde	11904 Jun 01 23:23	5° © 07'43		asc. node	11905 May 12 03:31	17° Ⅱ 43'33	
evening set	11904 Jun 05 17:02	3° 5 46'27		retrograde	11905 May 16 22:19	19° Ⅲ 31′28	
	11904 Jun 09 09:41	30°Ŗ Ⅱ		evening set	11905 May 21 01:42	17° Ⅱ 54'04	
inferior conj	11904 Jun 11 01:29	27° Ⅲ 50′15	3°15'05	inferior conj	11905 May 26 08:09	11° ∏ 45′22	3°11'14
minimum elong	11904 Jun 11 01:41	27° Ⅱ 49'35	3°14'17	minimum elong	11905 May 26 07:20	11° ∏ 48′12	3°10'26
min. Earth dist.	11904 Jun 12 05:04	26° Ⅱ 18′20	0.67410 AU	min. Earth dist.	11905 May 26 21:50	10° Ⅱ 58′07	0.68307 AU
morning rise	11904 Jun 16 09:57	21° Ⅲ 28'37		morning rise	11905 May 31 12:43	5° Ⅱ 27'05	
direct	11904 Jun 22 08:05	18° Ⅲ 52′01		direct	11905 Jun 05 22:33	3° Ⅱ 03'47	
desc. node	11904 Jun 27 17:52	20° Ⅲ 35'37		desc. node	11905 Jun 14 14:54	7° Ⅱ 27'47	
morning max el	11904 Jul 04 10:29	26° Ⅱ 07'06	25°19'05	morning max el	11905 Jun 16 20:30	9° ∏ 35'14	23°51'16
	11904 Jul 08 00:10	0 \circ			11905 Jul 02 23:18	0 \circ	
	11904 Jul 29 09:27	$0^{\circ}\Omega$		morning set	11905 Jul 22 03:13	0° Ω 04'13	
morning set	11904 Aug 09 10:12	18° Ω 42'24			11905 Jul 22 02:13	$0 ^{\circ} \Omega$	
max. Earth dist.	11904 Aug 13 01:05		1.36365 AU	max. Earth dist.	11905 Jul 25 22:38	6° Ω 41'02	1.38621 AU
	11904 Aug 15 12:04	0° m)				_	
				superior conj	11905 Aug 02 08:48	20° Ω 15'32	
superior conj	11904 Aug 19 07:41	7° m/27'21		minimum elong	11905 Aug 02 12:26	20° Ω 32'43	0°52'18
minimum elong	11904 Aug 19 08:52	7° m 33'11	0°18'39		11905 Aug 07 10:20	0° m)	
asc. node	11904 Aug 21 06:17	11° Mp 20'28		asc. node	11905 Aug 08 03:02	1° mp 21'35	
evening rise	11904 Aug 27 10:26	23° m 54'13		evening rise	11905 Aug 11 09:45	7° Mp 47'24	
	11904 Aug 30 11:18	0∘ ⊽	10040157		11905 Aug 24 01:18	0° ⊽	10052150
evening max el desc. node	11904 Sep 13 20:34	22° £ 32'52 27° £ 36'35	19°49'57	evening max el	11905 Aug 27 16:44 11905 Sep 05 07:11	4° £ 19'06 8° £ 37'20	18°53'59
retrograde	11904 Sep 23 15:06 11904 Sep 24 00:53	27° 2 30°33		retrograde evening set	11905 Sep 05 07:11 11905 Sep 07 04:22	8° £ 37′20 8° £ 25'45	
evening set	11904 Sep 24 00:33	27° 2 37'03		desc. node	11905 Sep 07 04.22 11905 Sep 10 12:32	8 = 23 43 7° Ω 13'52	
inferior conj	11904 Sep 23 22:28 11904 Oct 04 19:51	23° £ 25'39	3°24'40	inferior conj	11905 Sep 10 12.32 11905 Sep 15 10:31	4° £ 07'41	10321/12
minimum elong	11904 Oct 04 19:31 11904 Oct 04 11:04	23° £ 23'39'08	3°21'32	minimum elong	11905 Sep 15 10.31 11905 Sep 15 06:35	4° £ 0741 4° £ 14'40	
min. Earth dist.	11904 Oct 04 11:04 11904 Oct 06 20:27	23° ⊆ 3908 22° ⊆ 11'02	0.55151 AU	min. Earth dist.	11905 Sep 13 00:33	2° £ 00'34	0.56576 AU
morning rise	11904 Oct 12 22:09	19° £ 09'34	0.55151710	mm. Lartii dist.	11905 Sep 16 16:25	2 <u>—</u> 00 3 ₹	0.50570710
direct	11904 Oct 12 22:09	18° ⊆ 18'26		morning rise	11905 Sep 21 10:27 11905 Sep 23 05:33	29° Mp 14'44	
morning max el	11904 Oct 17 18:02 11904 Oct 31 12:47	25° Ω 07'25	24°34'31	direct	11905 Sep 28 20:14	27° m 59'31	
morning max or	11904 Nov 05 01:50	0°M	2.0.01		11905 Oct 06 01:05	0° ت	
asc. node	11904 Nov 17 07:33	18°M28'41		morning max el	11905 Oct 13 01:48	5° £ 20'05	26°11'56
	11904 Nov 23 06:02	0° ∡ 7			11905 Oct 31 00:42	0°M	· ·
morning set	11904 Nov 26 00:27	5° х 49′03		asc. node	11905 Nov 04 04:22	7° M 39'03	
				morning set	11905 Nov 10 11:21	20°M29'00	
superior conj	11904 Dec 02 20:05	20° х 42'34	1°38'59	5	11905 Nov 14 19:51	0° ⊼	
minimum elong	11904 Dec 02 20:06	20° ∡ '42'37	1°39'45				
max. Earth dist.	11904 Dec 04 21:14	25° ∡ 10′13	1.32452 AU	superior conj	11905 Nov 17 06:56	5° ∡ °28'13	1°36'09
	11904 Dec 07 03:21	8°0		minimum elong	11905 Nov 17 05:54	5° х 22′30	1°36'48
evening rise	11904 Dec 10 04:48	6° පි 21'53		max. Earth dist.	11905 Nov 18 03:26	7° ∡ °22'05	1.31640 AU
desc. node	11904 Dec 20 12:49	25° る 49'19		evening rise	11905 Nov 24 06:03	20° ∡ 36'51	

superior conj	11907 Oct 17 05:27	4°M50'37	1°13'25	max. Earth dist.	11908 Sep 27 22:54	13° ≏ 39'30	1.32236 AU
minimum elong	11907 Oct 17 03:13 11907 Oct 23 22:34	4°M38'18 19°M37'54	1°13'30	aumariar aani	11000 Can 20 12:25	19° ≙ 16'54	0052155
evening rise	11907 Oct 28 22:18	19 IIL3 / 34 0° ₹ ¹		superior conj minimum elong	11908 Sep 30 13:25 11908 Sep 30 11:17	19 ≥ 16 34 19° ≥ 05'17	
desc. node	11907 Nov 11 04:12	22° ∡ 30′56		minimum ciong	11908 Oct 05 11:01	0°M	0 33 44
dese. Hode	11907 Nov 17 04:30	0°る		evening rise	11908 Oct 03 11:01 11908 Oct 07 09:52	4°M13'32	
evening max el	11907 Nov 17 04:50	2° ろ 36'39	25°17'59	evening rise	11908 Oct 21 01:24	0° ⊼	
retrograde	11907 Dec 03 14:14	9° ට 34'03		desc. node	11908 Oct 28 01:29	9° х 31'06	
evening set	11907 Dec 09 10:31	8° ප 16'33		evening max el	11908 Oct 31 04:40	12° х 50'40	23°40'35
min. Earth dist.	11907 Dec 14 05:58	5° ට 36'31	0.57116 AU	retrograde	11908 Nov 13 16:35	19° ∡ ³34'39	
inferior conj	11907 Dec 17 01:33	3°₹43'36	-5°11'26	evening set	11908 Nov 18 06:56	18° ∡ ⁴48'37	
minimum elong	11907 Dec 17 09:15	3° ට 30'41	5°09'06	min. Earth dist.	11908 Nov 24 14:55	15° х 46′08	0.55531 AU
	11907 Dec 23 18:02	30°R ✓		inferior conj	11908 Nov 26 12:19	14° ∡ °38′50	-5°49'24
morning rise	11907 Dec 25 10:17	29° х 30′35		minimum elong	11908 Nov 26 14:31	14° ∡ °35'33	5°48'32
direct	11907 Dec 27 16:45	29° ∡ 15′23		morning rise	11908 Dec 04 23:58	10° ∡ ¹45′02	
	11907 Dec 31 11:14	0°ಕ		direct	11908 Dec 07 18:15	10° х 26′09	
asc. node	11908 Jan 04 21:59	2° る 50'26		morning max el	11908 Dec 18 08:43	15° ∡ °28'40	20°15'00
morning max el	11908 Jan 05 19:16	3° る 39'28	19°05'14	asc. node	11908 Dec 21 19:03	19° ∡ 15′13	
morning set	11908 Jan 22 11:08	0° ≈ 30'38			11908 Dec 28 21:13	0°ಕ	
	11908 Jan 22 04:56	0° ≈		morning set	11909 Jan 05 17:15	15° る 08'39	
					11909 Jan 12 23:10	0° ≈	
superior conj	11908 Jan 30 19:00	16°≈53'03	0°55'59		11000 1 12 00 00	00 45111	1017100
minimum elong	11908 Jan 30 21:54	17°≈06'59	0°56'10	superior conj	11909 Jan 13 08:08	0°≈45'11	1°17'08
max. Earth dist.	11908 Feb 06 15:48	29° ≈ 38'54 0° 升	1.38803 AU	minimum elong max. Earth dist.	11909 Jan 13 10:48 11909 Jan 18 23:00	0°≈58'37 11°≈46'07	1°17'33 1.36617 AU
desc. node	11908 Feb 06 20:31 11908 Feb 07 03:45	0° X 32′20		evening rise	11909 Jan 18 23.00 11909 Jan 22 17:52	11 ≈4007 18°≈48'27	1.3001 / AU
evening rise	11908 Feb 07 03.43	6° ∺ 19'29		desc. node	11909 Jan 24 00:29	21°≈06'29	
evening rise	11908 Feb 25 06:51	0 γ (1929		desc. Hode	11909 Jan 29 03:38	0° \	
evening max el	11908 Mar 16 17:17		24°37'05		11909 Feb 18 11:02	0° Υ	
evening max er	11908 Mar 21 02:49	0°8	21 37 03	evening max el	11909 Feb 27 06:41	10° Υ '00'42	25°49'29
retrograde	11908 Mar 28 07:34	2° 8 56'22		retrograde	11909 Mar 11 18:46	17° Y °11'07	20 .9 29
asc. node	11908 Apr 01 19:26	1° 8 26'00		evening set	11909 Mar 17 19:50	14° Y '42'26	
evening set	11908 Apr 02 20:55	0° 8 36'51		asc. node	11909 Mar 19 16:47	12° Y 55'19	
	11908 Apr 03 13:13	30° Ŗ ♈		min. Earth dist.	11909 Mar 22 02:07	10° Y ′07'53	0.67350 AU
min. Earth dist.	11908 Apr 07 10:03	25° Y 27'06	0.68243 AU	inferior conj	11909 Mar 23 14:20	8° Y 13'34	1°12'52
inferior conj	11908 Apr 08 10:06	24° Y 06'54	1°57'15	minimum elong	11909 Mar 23 12:41	8° Y 18'47	1°12'13
minimum elong	11908 Apr 08 07:58	24° Y 14'01	1°56'19	morning rise	11909 Mar 29 06:09	2° Y ′24'29	
morning rise	11908 Apr 13 19:11	18° Y ′08′24		direct	11909 Apr 01 13:49	1° Y 21'32	
direct	11908 Apr 17 14:24	16° Ƴ 45'42		morning max el	11909 Apr 08 07:54	5° Y ′00′52	
morning max el	11908 Apr 25 00:23	20° Y ′53′24	19°48'23	greatest brilliancy	11909 Apr 22 04:15	23° Y '43'20	-0.8m
	11908 May 02 13:20	0° 8		desc. node	11909 Apr 22 02:10	23° Y 35'20	
desc. node	11908 May 05 05:27	3° 8 43'22			11909 Apr 26 06:13	0° 8	
greatest brilliancy	11908 May 07 23:56	7° 8 42'58	-0.6m	morning set	11909 Apr 30 18:46	7° 8 01'09	1 45500 433
morning set	11908 May 21 11:04	28° 8 00'21		max. Earth dist.	11909 May 15 07:50	29° 8 41'11	1.45522 AU
max. Earth dist.	11908 May 22 18:09	0° П	1.44584 AU		11909 May 15 12:38	Π °0	
max. Earm dist.	11908 Jun 01 14:36	13 112401	1.44384 AU	superior conj	11909 May 17 04:02	2° ∏ 34'29	2010/21
superior conj	11908 Jun 06 13:59	23° Ⅲ 21'51	-2°11'15	minimum elong	11909 May 17 04:02 11909 May 16 23:49	2°П17'59	
minimum elong	11908 Jun 06 17:10	23° I I34'46		evening rise	11909 Jun 01 07:01	26° Ⅱ 40'29	2 1031
	11908 Jun 10 15:42	0°95			11909 Jun 03 08:21	0.20 To 10 10 10	
evening rise	11908 Jun 20 02:22	15° © 47'56		asc. node	11909 Jun 15 14:33	19° © 15'05	
asc. node	11908 Jun 28 17:35	0° Ω 17'24		evening max el	11909 Jun 21 13:53	26°5542'39	18°30'38
	11908 Jun 28 13:18	$0^{\circ}\Omega$		-	11909 Jun 26 13:08	0 $^{\circ}\Omega$	
evening max el	11908 Jul 08 00:57	13° Ω 07'57	18°08'24	retrograde	11909 Jun 28 01:13	0° Ω 12′29	
retrograde	11908 Jul 14 09:44	16° £ 28′23			11909 Jun 29 12:54	30° ℝ ∽	
evening set	11908 Jul 17 05:11	15° Ω 47'11		evening set	11909 Jul 01 04:53	29° 5 016'34	
inferior conj	11908 Jul 23 08:44	10° Ω 29'58		inferior conj	11909 Jul 06 22:17	23° © 43'04	
minimum elong	11908 Jul 23 11:19	10° Ω 22'53		minimum elong	11909 Jul 07 00:11	23° © 37'21	
min. Earth dist.	11908 Jul 26 01:41		0.63091 AU	min. Earth dist.	11909 Jul 09 01:07	21° © 10'45	0.65071 AU
morning rise	11908 Jul 29 15:39	4°Ω17'22		morning rise	11909 Jul 12 18:27	17°5522'16	
desc. node	11908 Aug 01 04:40	2° Ω 43'55		direct	11909 Jul 19 06:59	14°5541'10	
direct	11908 Aug 05 08:08	1° Ω 46'41	07050110	desc. node	11909 Jul 19 01:57	14°5541'19	27010155
morning max el	11908 Aug 19 07:56	9° Ω 48'45	2/~50'18	morning max el	11909 Aug 01 18:40	22°537'24	27°10'55
	11908 Sep 04 02:05	0° m)			11909 Aug 08 06:43	0° Ω	
morning set	11908 Sep 21 07:47 11908 Sep 22 19:52	0° ჲ 2° ჲ 59'56		morning set	11909 Aug 28 08:34 11909 Sep 06 07:12	0° т) 16° т)21'40	
asc. node	11908 Sep 22 19:32 11908 Sep 24 18:32	6° £ 58'02		max. Earth dist.	11909 Sep 06 07:12 11909 Sep 10 17:19		1.33461 AU
450. HOUC	11700 Sep 24 10.32	0 - 30 02		max. Larm dist.	11707 Sep 10 17.19	20 mg 10 0 l	1.55 T 01 AU

asc. node	11909 Sep 11 15:12	27° m 02'17		morning set	11910 Aug 20 05:38	29° Ω 06'08	
use. Hode	11909 Sep 13 01:26	0° ت		morning sec	11910 Aug 20 17:15	0° m)	
				max. Earth dist.	11910 Aug 24 01:13	~	1.35182 AU
superior conj	11909 Sep 14 16:26	3° ჲ 25'08	0°29'17	asc. node	11910 Aug 29 11:53	17° m) 08'34	
minimum elong	11909 Sep 14 15:01	3° ₽ 17'37	0°28'57		Č	•	
evening rise	11909 Sep 21 20:39	18° ≏ 44'53		superior conj	11910 Aug 29 12:00	17° m)09'10	0°00'03
C	11909 Sep 27 08:45	0° M		minimum elong	11910 Aug 29 12:01	17° m 09'14	0°00'13
evening max el	11909 Oct 12 16:51	22°M55'56	22°00'09	behind sun begin	11910 Aug 29 06:00	16° Mp 38'36	
desc. node	11909 Oct 14 22:50	24°M57'13		behind sun end	11910 Aug 29 18:02	17° m 39'55	
retrograde	11909 Oct 25 07:58	29°M12'40			11910 Sep 04 16:56	0∘ ⊽	
evening set	11909 Oct 28 11:28	28°M50'33		evening rise	11910 Sep 06 04:56	3° ჲ 06'52	
inferior conj	11909 Nov 06 07:48	24°M53'30	-5°35'28		11910 Sep 21 13:09	0° M	
minimum elong	11909 Nov 06 01:29	25°M02'21	5°34'02	evening max el	11910 Sep 24 15:40	3°M29'34	20°31'55
min. Earth dist.	11909 Nov 05 21:39	25° ™ 07'44	0.54658 AU	desc. node	11910 Oct 01 20:14	8°M20'39	
morning rise	11909 Nov 14 16:47	21°M06'25		retrograde	11910 Oct 05 19:24	9° ™ 01'54	
direct	11909 Nov 18 04:50	20°M39'22		evening set	11910 Oct 07 22:51	8°M50'32	
morning max el	11909 Nov 30 08:16	26°M25'36	21°46'28	inferior conj	11910 Oct 17 00:16	4° ጤ 54'49	-4°24'11
	11909 Dec 03 16:54	0° ∡ ¹		minimum elong	11910 Oct 16 14:14	5° ™ 09'20	4°20'56
asc. node	11909 Dec 08 16:04	6° х ⁴43'38		min. Earth dist.	11910 Oct 18 05:32	4° M 12′22	0.54704 AU
morning set	11909 Dec 21 03:08	29° х 53′55		morning rise	11910 Oct 25 05:12	0° M 54'32	
	11909 Dec 21 04:18	0°₹		direct	11910 Oct 29 13:38	0° ጤ 13'47	
				morning max el	11910 Nov 11 21:29	6°M42'13	23°32'22
superior conj	11909 Dec 28 06:53	15° る 02'37	1°30'55	asc. node	11910 Nov 25 13:02	25°M01'02	
minimum elong	11909 Dec 28 08:41	15° る 12'01	1°31'35		11910 Nov 28 07:43	0° ∡ ¹	
max. Earth dist.	11910 Jan 01 11:00	23° る 37'44	1.34679 AU	morning set	11910 Dec 05 14:48	14° ∡ °40′59	
	11910 Jan 04 16:23	0° ≈					
evening rise	11910 Jan 05 16:56	1° ≈ 58′01		superior conj	11910 Dec 12 12:13	29° ∡ ³36'37	1°37'51
desc. node	11910 Jan 10 21:18	11° ≈ 31′24		minimum elong	11910 Dec 12 12:53		1°38'39
	11910 Jan 22 03:15	0° ∀			11910 Dec 12 16:33	0°ಕ	
evening max el	11910 Feb 09 20:10	23°) 43′59	26°47'26	max. Earth dist.	11910 Dec 15 06:49	5° そ 33'08	1.33137 AU
	11910 Feb 18 08:13	0° Υ		evening rise	11910 Dec 20 04:36	15° る 39'28	
retrograde	11910 Feb 23 00:36	1° Y ′07'06			11910 Dec 27 19:02	0° ≈	
	11910 Feb 27 08:23	30°₽)		desc. node	11910 Dec 28 18:12	1° ≈ 42′10	
evening set	11910 Mar 01 12:06	28°) 34′08			11911 Jan 16 19:01	0° ∀	
min. Earth dist.	11910 Mar 05 12:41	24°) 33'31	0.66054 AU	evening max el	11911 Jan 23 09:13	7° ∺ 10'51	27°23'34
asc. node	11910 Mar 06 14:09	23° ¥ 19′22		retrograde	11911 Feb 06 00:06	14°) ₹35'52	
inferior conj	11910 Mar 07 12:57	22°) 12'11	0°18'24	evening set	11911 Feb 12 19:32	12°) €05'05	
minimum elong	11910 Mar 07 12:27	22°) 13′39	0°18'24	min. Earth dist.	11911 Feb 16 15:42	8° ¥ 36'15	0.64405 AU
morning rise	11910 Mar 13 14:01	16°) (34′20		inferior conj	11911 Feb 19 03:27	5°) € 57'00	
direct	11910 Mar 16 11:25	15°) (48'15	10010116	minimum elong	11911 Feb 19 04:51	5°) €53'14	0°45'03
morning max el	11910 Mar 22 21:28	19°) 11'58	18°13'46	asc. node	11911 Feb 21 11:31	3°) € 33′22	
	11910 Mar 31 05:00	0°Υ 12° 20 4 611 0		morning rise	11911 Feb 25 16:06	0°) € 32'44	
desc. node	11910 Apr 08 22:49	13° ℃ 46'10		direct	11911 Feb 28 04:52	29°≈59'54	
morning set	11910 Apr 11 03:33	17° ℃ 17'57			11911 Feb 28 01:38	30°R≈	
	11910 Apr 19 02:23	0°B			11911 Feb 28 08:05	0°) €	17051140
	11010 4 26 11:00	11° 8 36'02	1940110	morning max el	11911 Mar 06 14:29	3° ¥ 19'12 28° ¥ 58'36	1/31/40
superior conj	11910 Apr 26 11:09	11° 8 00'02	1°49'01	morning set	11911 Mar 23 16:59 11911 Mar 24 07:37	28°π38'30 0°Υ	
minimum elong max. Earth dist.	11910 Apr 26 01:57 11910 Apr 28 03:15	14° 8 12'56	1.45723 AU	desc. node	11911 Mar 24 07.37 11911 Mar 26 19:26	0 1 4° Υ 10'18	
max. Earth dist.	11910 Apr 28 03:13 11910 May 08 06:17	0° Ⅱ	1.43723 AU	desc. node	11911 Mai 20 19.20	4 1 10 16	
evening rise	11910 May 08 00.17 11910 May 12 12:10	6° Ц 36'50		superior conj	11911 Apr 06 05:05	21° Y 12'34	1013124
greatest brilliancy	11910 May 12 12:10 11910 May 23 20:07	24°耳08'48	-0.7m	minimum elong	11911 Apr 00 03:03	21 1 12 34 20° Υ 41'39	
greatest offinancy	11910 May 23 20:07 11910 May 27 18:41	0°95	-0.7111	max. Earth dist.	11911 Apr 03 21:23 11911 Apr 10 22:39	20 γ 41 39 28° Υ 44'11	1.45188 AU
asc. node	11910 May 27 18.41 11910 Jun 02 11:38	7° © 39'53		max. Earth dist.	11911 Apr 10 22:39	0°8	1.43166 AU
evening max el	11910 Jun 04 23:18	10°©25'05	19°10'09	evening rise	11911 Apr 11 17.34 11911 Apr 22 01:44	16° 8 01'05	
retrograde	11910 Jun 11 21:37	10 3 23 03	19 10 09	evening rise	11911 Apr 22 01:44 11911 May 01 06:54	0°Ⅱ	
evening set	11910 Jun 15 09:54	13°905'11		greatest brilliancy	11911 May 07 00:34 11911 May 07 03:14	8° Ⅱ 38'29	-0.6m
inferior conj	11910 Jun 20 20:43	7°9517'00	3°11'46	evening max el	11911 May 19 03:33	24° Ⅱ 10′23	20°05'25
minimum elong	11910 Jun 20 21:34	7°9514'17	3°10'54	asc. node	11911 May 19 03:33	25° I I20'18	20 00 20
min. Earth dist.	11910 Jun 20 21:34 11910 Jun 22 08:46	5°920'36	0.66679 AU	retrograde	11911 May 26 08:48	28° II 34'56	
morning rise	11910 Jun 26 08:39	0°954'22	3.000// 110	evening set	11911 May 20 20:07	27° I I06'55	
	11910 Jun 27 11:44	30°RⅡ		inferior conj	11911 Jun 05 01:05	21° I I05'30	3°14'53
direct	11910 Jul 02 12:59	28° Ⅱ 13'09		minimum elong	11911 Jun 05 00:50	21° I 106'20	3°14'05
desc. node	11910 Jul 05 23:09	28° I I54'50		min. Earth dist.	11911 Jun 05 00:30	19° I 52'01	0.67847 AU
	11910 Jul 08 04:12	0°95		morning rise	11911 Jun 10 07:33	14° Ⅱ 45'00	
morning max el	11910 Jul 15 05:32	5°548'22	26°05'07	direct	11911 Jun 16 00:44	12° Ⅱ 12'57	
0	11910 Aug 02 20:53	0°Ω		desc. node	11911 Jun 22 20:16	14° Ⅱ 57'02	

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morning max el	11911 Jun 27 15:26	19° Ⅱ 10′56	24°42'29	morning max el	11912 Jun 09 01:38	2° Ⅱ 41'46	23°12'57
morning max or	11911 Jul 06 19:29	0.20 1.020	21 1229	morning max er	11912 Jun 29 20:36	0°95	23 12 3 7
	11911 Jul 26 23:26	$0 {\circ} {\mathfrak O}$		morning set	11912 Jul 13 17:41	21° 9 55'26	
morning set	11911 Aug 02 10:45	11° Ω 01'17		max. Earth dist.	11912 Jul 17 22:20	29°503'01	1.39620 AU
•	_		1 27204 ATT	max. Earth dist.			1.39020 AU
max. Earth dist.	11911 Aug 06 00:44	17° Ω 26'19	1.37304 AU		11912 Jul 18 11:29	0 $^{\circ}\Omega$	
	11011 4 12 20 56	00, 20, 20, 20	0022140		11012 1 1 25 15 22	120 0 50101	100/140
superior conj	11911 Aug 12 20:56	0° Mp 20'28		superior conj	11912 Jul 25 15:22	12° Ω 50'01	
minimum elong	11911 Aug 12 23:06	0° mp 31'00	0°32'44	minimum elong	11912 Jul 25 20:05	13° Ω 11'50	1°06'42
	11911 Aug 12 16:43	0° m y		asc. node	11912 Aug 02 05:21	27° Ω 10′53	
asc. node	11911 Aug 16 08:36	7° TD 12'34			11912 Aug 03 16:30	0° m)	
evening rise	11911 Aug 21 08:17	17° Mp 12'27		evening rise	11912 Aug 04 03:50	0° m 54'33	
	11911 Aug 27 23:10	0∘ ত		evening max el	11912 Aug 20 05:22	26° m 53'55	18°36'33
evening max el	11911 Sep 07 04:29	14° ≏ 48'54	19°23'29		11912 Aug 24 09:24	0∘ ত	
retrograde	11911 Sep 16 15:37	19° ≏ 31'54		retrograde	11912 Aug 28 05:58	0° ≏ 55'45	
evening set	11911 Sep 18 11:58	19° ≏ 21'54		evening set	11912 Aug 30 05:31	0° ჲ 41'49	
desc. node	11911 Sep 18 17:41	19° ≏ 19'12			11912 Sep 01 06:53	30°R, Mp	
inferior conj	11911 Sep 27 03:51	15° ≏ 14'24	-2°37'17	desc. node	11912 Sep 04 15:06	28° Mp 05'05	
minimum elong	11911 Sep 26 20:58	15° ≏ 25'36	2°34'33	inferior conj	11912 Sep 07 03:36	26° m 14'48	-0°47'19
min. Earth dist.	11911 Sep 29 16:25	13° ≏ 36'17	0.55677 AU	minimum elong	11912 Sep 07 01:42	26° Mp 18'25	0°46'43
morning rise	11911 Oct 05 03:33	10° ≙ 43'33		min. Earth dist.	11912 Sep 10 08:37	23° m 49'32	0.57389 AU
direct	11911 Oct 10 08:04	9° ≏ 42'43		morning rise	11912 Sep 14 18:28	21°Mp06'13	
morning max el	11911 Oct 24 08:08	16° ≏ 45'54	25°18'14	direct	11912 Sep 20 16:14	19° m 39'20	
	11911 Nov 04 02:53	0° M.		morning max el	11912 Oct 04 23:31	27° m 09'30	26°45'53
asc. node	11911 Nov 12 09:54	13°M54'54			11912 Oct 07 17:27	0∘ ত	
morning set	11911 Nov 20 02:27	29°M24'50			11912 Oct 27 14:08	0° M .	
	11911 Nov 20 09:01	0° ∡		asc. node	11912 Oct 29 06:41	3° M ₁5'38	
				morning set	11912 Nov 03 12:24	14°ML00'28	
superior conj	11911 Nov 26 21:38	14° ∡ 19'45	1°38'29	C			
minimum elong	11911 Nov 26 21:11	14° ∡ 17'14	1°39'14	superior conj	11912 Nov 10 09:03	29°M05'25	1°33'11
max. Earth dist.	11911 Nov 28 10:08	17° ∡ ′40′28	1.32051 AU	minimum elong	11912 Nov 10 07:39	28°M57'37	1°33'45
evening rise	11911 Dec 04 01:42	29° х 44′26		8	11912 Nov 10 18:51	0° ∡ ⊓	
	11911 Dec 04 04:43	0°る		max. Earth dist.	11912 Nov 10 18:04	29°M55'38	1.31452 AU
desc. node	11911 Dec 15 15:12	21° る 32'31		evening rise	11912 Nov 17 05:30	14° √ 05'25	
	11911 Dec 20 20:44	0° ≈			11912 Nov 25 05:30	0°る	
evening max el	11912 Jan 05 19:59	20°≈09'01	27°31'11	desc. node	11912 Dec 01 12:17	10° ろ 53'23	
retrograde	11912 Jan 19 16:11	27°≈28'44	27 3111	desc. node	11912 Dec 15 16:05	0° ≈	
evening set	11912 Jan 26 15:26	25°≈07'44		evening max el	11912 Dec 18 01:33	2° ≈ 24'10	27°05'23
min. Earth dist.	11912 Jan 30 09:14	22°≈06'29	0.62471 AU	retrograde	11912 Dec 31 23:42	9°≈35'59	27 03 23
inferior conj	11912 Feb 02 06:54	19° ≈ 20'51		evening set	11912 Dec 31 23:42 11913 Jan 07 20:20	7°≈33'15	
minimum elong	11912 Feb 02 00:54 11912 Feb 02 10:56	19°≈11'15		min. Earth dist.	11913 Jan 07 20:20 11913 Jan 11 15:57		0.60359 AU
asc. node	11912 Feb 02 10:50 11912 Feb 08 08:52	14° ≈ 37'49	1 3/09	inferior conj	11913 Jan 14 19:46	2°≈13'35	
morning rise	11912 Feb 08 08:52 11912 Feb 09 08:56	14 ≈3749 14°≈13'13			11913 Jan 15 02:37	2 ≈13 33 1°≈59'17	
•				minimum elong			3 13 00
direct	11912 Feb 11 15:09	13°≈49'53	17947110		11913 Jan 17 14:49	30°Rる	
morning max el	11912 Feb 18 07:59	17°≈14'45	1/-4/10	morning rise	11913 Jan 22 11:45	27° る 25'58	
	11912 Feb 27 11:05	0°) {		direct	11913 Jan 24 14:15	27° ろ 08'36	
morning set	11912 Mar 05 06:13	11°) (47'36		asc. node	11913 Jan 25 06:08	27° る 10'22	
desc. node	11912 Mar 12 16:02	24°) (43'34			11913 Jan 31 01:32	0° ≈	10001116
	11912 Mar 15 18:24	0 ° Υ		morning max el	11913 Jan 31 22:32	0°≈48'40	18°01'16
				morning set	11913 Feb 16 12:46	25°≈24'24	
superior conj	11912 Mar 16 21:34	1° Υ 54'11			11913 Feb 19 00:23	0° ∀	
minimum elong	11912 Mar 16 18:24					40014	
max. Earth dist.	11912 Mar 23 15:59	13° Y ′00'49	1.43974 AU	superior conj	11913 Feb 26 14:28	13°) 44′08	0°07'13
evening rise	11912 Mar 31 14:52	25° Ƴ 33'21		minimum elong	11913 Feb 26 15:04	13° ¥ 46′50	0°07'26
	11912 Apr 03 12:18	$0^{\circ}S$		behind sun begin	11913 Feb 26 08:01	13° ¥ 15'40	
	11912 Apr 24 07:47	Π $^{\circ}0$		behind sun end	11913 Feb 26 22:08	14° 升 17'56	
evening max el	11912 May 01 02:07	7° Ⅱ 56'48	21°13'41	desc. node	11913 Feb 27 12:38	15° ∺ 21'37	
asc. node	11912 May 06 06:03	12° Ⅱ 02'52		max. Earth dist.	11913 Mar 06 04:56	26°) 45′48	1.42207 AU
retrograde	11912 May 09 18:45	13° Ⅱ 01'56			11913 Mar 08 04:00	0° Y	
evening set	11912 May 14 02:37	11° Ⅱ 17'46		evening rise	11913 Mar 11 17:23	5° Y 45'06	
inferior conj	11912 May 19 08:58	5° Ⅱ 04'36	3°06'16		11913 Mar 27 18:13	0°8	
minimum elong	11912 May 19 07:47	5° Ⅱ 08'44	3°05'26	evening max el	11913 Apr 13 19:39	21° 8 43'32	22°30'56
min. Earth dist.	11912 May 19 17:00	4° Ⅱ 36'40	0.68550 AU	asc. node	11913 Apr 23 03:21	27° 8 30'55	
	11912 May 23 07:46	30°₽ ႘		retrograde	11913 Apr 23 15:48	27° 8 32'12	
morning rise	11912 May 24 12:44	28° 8 48'36		evening set	11913 Apr 28 10:40	25° 8 32'46	
direct	11912 May 29 17:10	26° 8 32'34		inferior conj	11913 May 03 18:15	19° 8 10'14	2°47'13
	11912 Jun 06 03:31	0°II		minimum elong	11913 May 03 16:24	19° 8 16'41	2°46'17
desc. node	11912 Jun 08 17:15	2° Ⅱ 20'48		min. Earth dist.	11913 May 03 13:27	19° 8 26'58	0.68782 AU
	- ··· ·				J		-

morning rise	11913 May 08 22:01	13° 8 00'01		direct	11914 Apr 27 11:39	25° Ƴ 41'16	
direct	11913 May 13 13:08	11° 8 04'02			11914 May 05 05:44	0°8	
morning max el	11913 May 22 15:00	16° 8 21'13	21°45'33	morning max el	11914 May 05 10:30	0° 8 11'42	20°27'16
desc. node	11913 May 26 14:07	20° 8 43'42		desc. node	11914 May 13 10:56	9° 8 49'46	
	11913 Jun 02 17:59	Π °0			11914 May 27 09:23	Π °0	
	11913 Jun 22 21:34	0 \circ \odot		morning set	11914 Jun 03 05:33	10° Ⅱ 27'11	
morning set	11913 Jun 23 22:54	1° 5 940'37		max. Earth dist.	11914 Jun 12 07:32	24° ∏ 45'39	1.43732 AU
max. Earth dist.	11913 Jun 29 23:47	11° © 29'04	1.41848 AU		11914 Jun 15 13:14	0ං ව	
superior conj	11913 Jul 07 14:47	24° © 27'18	-1°38'49	superior conj	11914 Jun 18 15:07	5° 5 03'44	-2°03'17
minimum elong	11913 Jul 07 21:26	24°956'22	1°38'50	minimum elong	11914 Jun 18 20:56	5° 5 27'51	2°03'45
	11913 Jul 10 18:10	$0^{\circ}\Omega$		evening rise	11914 Jul 01 03:25	26° 5 26'27	
evening rise	11913 Jul 18 11:47	14° Ω 03'18			11914 Jul 03 04:19	$0^{\circ}\Omega$	
asc. node	11913 Jul 20 02:10	16° Ω 59'22		asc. node	11914 Jul 06 23:02	6° £ 32'43	
	11913 Jul 27 11:36	0° m		evening max el	11914 Jul 18 03:42	22° Ω 46′04	18°03'52
evening max el	11913 Aug 03 14:26	9° Mp 36'28	18°10'26	retrograde	11914 Jul 24 15:25	26° Ω 07'28	
retrograde	11913 Aug 10 15:09	13° m) 10'50		evening set	11914 Jul 27 06:06	25° Ω 34'07	
evening set	11913 Aug 12 21:46	12° Mp 48'54		inferior conj	11914 Aug 02 17:15	20° Ω 27'29	1°52'31
inferior conj	11913 Aug 20 01:03	8° Mp 01'22	0°44'40	minimum elong	11914 Aug 02 19:52	20° Ω 20'51	1°51'10
minimum elong	11913 Aug 20 02:28	7° Mp 58'13	0°43'46	min. Earth dist.	11914 Aug 05 17:18	17° Ω 25'28	0.61820 AU
desc. node	11913 Aug 22 12:28	5° Mp 49'20	0.50520 444	morning rise	11914 Aug 09 07:12	14° Ω 23'09	
min. Earth dist.	11913 Aug 23 08:29	5° Mp 06'27	0.59539 AU	desc. node	11914 Aug 09 09:50	14° Ω 18'35	
morning rise	11913 Aug 27 03:54	2° Mp 19'39		direct	11914 Aug 15 23:23	12°Ω02'38	27957151
direct morning max el	11913 Sep 02 14:03 11913 Sep 16 22:26	0° Mp 24'09 8° Mp 14'17	27941107	morning max el	11914 Aug 30 03:45 11914 Sep 07 16:05	20° Ω 03'55 0° m	2/-3/31
morning max er	11913 Sep 10 22.20 11913 Oct 03 12:05	ە ال ل 1417	2/410/		11914 Sep 07 10:03	0∘ ت رااا	
asc. node	11913 Oct 03 12:03	0 = 22° £ 55'52		morning set	11914 Sep 20 11:23 11914 Oct 02 19:52	0 = 12° £ 27'19	
morning set	11913 Oct 10 03:24 11913 Oct 18 18:53	28° ⊆ 23'24		asc. node	11914 Oct 02 19:32 11914 Oct 03 00:06	12° ⊆ 49'01	
morning set	11913 Oct 10 10:35	0°ML		max. Earth dist.	11914 Oct 08 09:02	24° ₽ 13'23	1.31760 AU
max. Earth dist.	11913 Oct 25 03:01	12°ML10'21	1.31351 AU				
				superior conj	11914 Oct 10 06:28	28° ≏ 22'11	1°05'49
superior conj	11913 Oct 25 20:37	13°M48'20	1°22'15	minimum elong	11914 Oct 10 04:12	28° ≙ 09'47	1°05'46
minimum elong	11913 Oct 25 18:35	13°M36'59	1°22'30		11914 Oct 11 00:13	0° M	
evening rise	11913 Nov 01 13:46	28°MJ36'33		evening rise	11914 Oct 17 00:28	13°M11'40	
	11913 Nov 02 05:22	0° ∡ ¹			11914 Oct 25 08:33	0° ∡ 7	
desc. node	11913 Nov 18 09:27	29° ∡ ³33'15		desc. node	11914 Nov 05 06:41	17° ∡ 15'35	
	11913 Nov 18 16:39	0°ಕ		evening max el	11914 Nov 11 13:17	24° ₹ 22'03	24°38'05
evening max el	11913 Nov 29 23:25	13° る 47'46	26°05'33		11914 Nov 19 13:43	8°0	
retrograde	11913 Dec 13 21:33	20° る 51'29		retrograde	11914 Nov 25 07:39	1° る 15'19	
evening set	11913 Dec 20 06:00	19° る 15'30		evening set	11914 Nov 30 16:11	0° る 11'37	
min. Earth dist.	11913 Dec 24 12:23		0.58241 AU		11914 Dec 01 03:50	30°₹ ৴	
inferior conj	11913 Dec 27 14:32	14°る25'40		min. Earth dist.	11914 Dec 06 00:53	27°×724'05	0.56373 AU
minimum elong	11913 Dec 27 22:56	14° る 10'25	4°31′20	inferior conj	11914 Dec 08 12:48	25° х 49'14 25° х 39'38	
morning rise direct	11914 Jan 04 18:35 11914 Jan 06 21:39	10°る00'19 9°る45'28		minimum elong morning rise	11914 Dec 08 18:51 11914 Dec 16 23:40	25° x '39'38 21° x '45'07	5-3100
asc. node	11914 Jan 00 21.39	9 3 43 28		direct	11914 Dec 16 23.40 11914 Dec 19 09:57	21° x '4307 21° x '29'02	
morning max el	11914 Jan 15 06:24	11 02110 13°る50'42	18°35'35	morning max el	11914 Dec 19 03:37 11914 Dec 29 03:32	26° ₹ 08'59	19°32'02
morning max cr	11914 Jan 26 06:20	0°≈	10 33 33	asc. node	11914 Dec 30 00:23	27°×701'17	17 32 02
morning set	11914 Jan 31 07:26	9° ≈ 33'36		use. Houe	11915 Jan 01 13:53	0°る	
5 - 5				morning set	11915 Jan 15 10:15	24° る 03'22	
superior conj	11914 Feb 09 04:16	26° ≈ 32'10	0°40'18		11915 Jan 18 09:00	0° ≈	
minimum elong	11914 Feb 09 06:48	26° ≈ 43'57	0°40'25				
	11914 Feb 11 01:14	0°) €		superior conj	11915 Jan 23 10:09	10° ≈ 04'13	1°05'53
desc. node	11914 Feb 14 09:18	6° 米 01′09		minimum elong	11915 Jan 23 13:04	10° ≈ 18'31	1°06'08
max. Earth dist.	11914 Feb 16 13:00	9°) 48′22	1.40087 AU	max. Earth dist.	11915 Jan 29 18:57	22° ≈ 10'44	1.37856 AU
evening rise	11914 Feb 20 16:22	16° 米 51'51		desc. node	11915 Feb 01 06:01	26° ≈ 38′23	
	11914 Feb 28 20:10	0° Y		evening rise	11915 Feb 02 12:25	28° ≈ 53'15	
	11914 Mar 22 09:00	0°8			11915 Feb 03 03:37	0° ∀	
evening max el	11914 Mar 27 10:04	_	23°51'40		11915 Feb 22 04:51	0°Υ	
retrograde	11914 Apr 07 09:58	12° 8 00'44		evening max el	11915 Mar 09 23:33	19° ℃ 23'51	25°09'15
asc. node	11914 Apr 10 00:39	11° 8 29'11		retrograde	11915 Mar 22 00:03	26° Y 22'20	
evening set	11914 Apr 12 16:25	9° 8 47'50	0.60562 ATT	evening set	11915 Mar 27 18:19	23° Y 58'38 23° Y 50'46	
min. Earth dist. inferior conj	11914 Apr 17 09:58 11914 Apr 18 03:05	4° 8 17'33 3° 8 19'10	0.68562 AU 2°18'18	asc. node min. Earth dist.	11915 Mar 27 21:59 11915 Apr 01 04:25	23° γ 50'46 19° γ 03'40	0.67909 AU
minimum elong	11914 Apr 18 00:55	3° 8 26'32		inferior conj	11915 Apr 01 04.25 11915 Apr 02 09:36	19 Y 03 40 17° Υ 28'18	1°39'38
minimum ciong	11914 Apr 20 16:05	30° R Υ	2 1, 20	minimum elong	11915 Apr 02 07:36	17° Υ 34'51	1°38'48
morning rise	11914 Apr 23 09:28	27° Υ 15'56		morning rise	11915 Apr 07 21:13	11° Υ 33'21	. 55 10
	r5 07.20				r/ =1.10		

direct	11915 Apr 11 11:19	10° Y ′19′20			11916 Mar 17 18:20	30° ₹	
morning max el	11915 Apr 18 13:40	14° Υ 13'45	19°22'43	morning rise	11916 Mar 22 07:11	25° ¥ 47'35	
desc. node	11915 Apr 30 07:41	29° Y 27'46	1) 22 13	direct	11916 Mar 25 10:23	24°) 52'03	
acse. noue	11915 Apr 30 16:27	0°8		morning max el	11916 Mar 31 23:58	28° ¥ 23'09	18°34'07
greatest brilliancy	11915 May 01 07:39	0° 8 56'06	-0.7m	5 5	11916 Apr 02 12:48	0° Υ	
morning set	11915 May 13 06:10	19° 8 03'40		desc. node	11916 Apr 16 04:22	19° Y ′28′29	
C	11915 May 20 07:42	Π°		morning set	11916 Apr 21 23:15	28° Y '33'23	
max. Earth dist.	11915 May 25 21:42	8° Ⅱ 44'38	1.45064 AU	C	11916 Apr 22 21:16	0°8	
	•			max. Earth dist.	11916 May 07 16:30	23° 8 11'00	1.45705 AU
superior conj	11915 May 29 16:00	14° Ⅱ 42'05	-2°13'22				
minimum elong	11915 May 29 16:17	14° ∐ 43'12	2°14'07	superior conj	11916 May 08 00:56	23° 8 43'57	-2°03'44
	11915 Jun 08 03:11	0 \circ		minimum elong	11916 May 07 17:53	23° 8 16'22	2°03'57
evening rise	11915 Jun 12 21:52	7° © 53'39			11916 May 12 01:03	Π $^{\circ}0$	
asc. node	11915 Jun 23 19:59	25° © 45'33		evening rise	11916 May 23 16:05	18° Ⅲ 20′22	
	11915 Jun 26 16:13	0 \circ Ω			11916 May 31 00:29	0 \circ 60	
evening max el	11915 Jul 01 17:42	6° Ω 14'14	18°15'48	greatest brilliancy	11916 May 31 23:08	1° © 29'05	-0.8m
retrograde	11915 Jul 08 02:26	9° Ω 36'49		asc. node	11916 Jun 09 17:01	14° © 30'04	
evening set	11915 Jul 11 01:22	8° Ω 49'32		evening max el	11916 Jun 14 05:28	19° © 52'45	18°45'26
inferior conj	11915 Jul 17 00:10	3° Ω 25'29	2°37'41	retrograde	11916 Jun 20 20:18	23°530'03	
minimum elong	11915 Jul 17 02:33	3° Ω 18'42	2°36'27	evening set	11916 Jun 24 03:41	22°527'20	2002152
min. Earth dist.	11915 Jul 19 11:25	0° Ω 37'35	0.63972 AU	inferior conj	11916 Jun 29 17:52	16°5947'24	3°03'53
	11915 Jul 20 01:19	30°R©		minimum elong min. Earth dist.	11916 Jun 29 19:21 11916 Jul 01 14:22	16°9542'49 14°9529'25	3°02'54 0.65812 AU
morning rise desc. node	11915 Jul 23 02:15 11915 Jul 27 07:08	27° © 08'39 24° © 52'29			11916 Jul 01 14:22 11916 Jul 05 10:14	14°929'23 10°925'30	0.03812 AU
direct	11915 Jul 27 07:08 11915 Jul 29 17:53	24 932 29 24°931'57		morning rise direct	11916 Jul 03 10.14 11916 Jul 11 19:48	7°543'14	
uncci	11915 Aug 09 20:07	0°Ω		desc. node	11916 Jul 13 04:23	7°9549'45	
morning max el	11915 Aug 09 20:07 11915 Aug 12 13:02		27°37'18	morning max el	11916 Jul 24 23:54	15° © 31'33	26°45'37
morning max ci	11915 Sep 02 00:12	0° m)	27 37 16	morning max ci	11916 Aug 05 21:18	0°Ω	20 4337
morning set	11915 Sep 16 13:00	26° Mp 06'16			11916 Aug 24 19:30	0° m)	
	11915 Sep 18 11:32	0∘ ⊽		morning set	11916 Aug 29 19:17	9° mg 12'27	
asc. node	11915 Sep 19 20:48	2° ₽ 50'29		max. Earth dist.	11916 Sep 02 22:33	17° Mp 16'29	1.34137 AU
max. Earth dist.	11915 Sep 21 08:30	5° ≏ 56'26	1.32692 AU	asc. node	11916 Sep 05 17:30	22° m) 55'45	
	•				•	•	
superior conj	11915 Sep 24 12:37	12° ≏ 41'33	0°44'06	superior conj	11916 Sep 07 12:49	26° m 39'56	0°17'24
minimum elong	11915 Sep 24 10:43	12° ≏ 31'15	0°43'49	minimum elong	11916 Sep 07 11:54	26° m 35'12	0°17'06
evening rise	11915 Oct 01 11:47	27° ≏ 45'54			11916 Sep 09 03:00	0∘ ⊽	
	11915 Oct 02 13:00	0° M		evening rise	11916 Sep 14 21:45	12° ≏ 13'43	
	11915 Oct 19 22:30	0° ∡ ¹			11916 Sep 24 00:00	0° M	
desc. node	11915 Oct 23 04:00	3° ∡ ³39′06		evening max el	11916 Oct 04 15:34	14° M 41'44	21°20'33
evening max el	11915 Oct 23 23:41	4° ∡ °28'14 −	22°57'17	desc. node	11916 Oct 09 01:22	18° ™ 16'34	
retrograde	11915 Nov 06 04:35	11° ⋌ ¹02'05 –		retrograde	11916 Oct 16 16:38	20° M 40'55	
evening set	11915 Nov 10 03:48	10° ∡ ¹27'52		evening set	11916 Oct 19 08:12	20° ™ 24'42	
min. Earth dist.	11915 Nov 17 08:40	7° √ 10'12	0.55062 AU	inferior conj	11916 Oct 28 08:27	16°M29'54	
inferior conj	11915 Nov 18 16:04	6° ₹25'12		minimum elong	11916 Oct 27 23:36	16°M42'19	5°09'15
minimum elong	11915 Nov 18 14:35	6° 🗷 27'19	5~49.59	min. Earth dist.	11916 Oct 28 15:13	16°M20'24	0.54560 AU
morning rise direct	11915 Nov 27 02:56 11915 Nov 30 04:22	2° х ⁷ 35'53 2° х ⁷ 13'58		morning rise direct	11916 Nov 05 15:47 11916 Nov 09 12:42	12°M40'13 12°M07'57	
morning max el	11915 Nov 30 04.22 11915 Dec 11 10:54	2 x ·13 38 7° x ·35'11	20°51'22	morning max el	11916 Nov 09 12.42 11916 Nov 22 05:11	12 IILO7 37	22°30'28
asc. node	11915 Dec 16 21:27	13° × 754'51	20 31 22	morning max ci	11916 Dec 01 15:40	0° √	22 30 20
use. Hode	11915 Dec 26 10:13	0° る		asc. node	11916 Dec 02 18:28	1° ∡ 745'56	
morning set	11915 Dec 30 18:16	8° る 45'06		morning set	11916 Dec 14 05:12	23°×732'30	
					11916 Dec 17 05:47	0°る	
superior conj	11916 Jan 07 03:46	24° る 07'54	1°23'51				
minimum elong	11916 Jan 07 06:07	24° る 19'57	1°24'22	superior conj	11916 Dec 21 05:42	8° る 33'45	1°34'39
	11916 Jan 10 01:19	0° ≈		minimum elong	11916 Dec 21 07:01	8° る 40'50	1°35'24
max. Earth dist.	11916 Jan 12 03:46	4° ≈ 09'00	1.35758 AU	max. Earth dist.	11916 Dec 24 19:26	16° පි 03'03	1.33974 AU
evening rise	11916 Jan 16 02:40	11° ≈ 40'44		evening rise	11916 Dec 29 07:34	25° る 05'22	
desc. node	11916 Jan 19 02:47	17° ≈ 09'07			11916 Dec 31 21:09	0° ≈	
	11916 Jan 26 16:09	0°)		desc. node	11917 Jan 04 23:39	7° ≈ 29'05	
	11916 Feb 17 10:37	0° Υ			11917 Jan 19 03:47	0° ℋ	
evening max el	11916 Feb 20 13:15	3° Υ 13'12	26°16'27	evening max el	11917 Feb 02 02:51	16° 米 51'36	27°05'48
retrograde	11916 Mar 04 09:00	10° Y ′29'48		retrograde	11917 Feb 15 12:01	24°) 15′48	
evening set	11916 Mar 10 14:38	7° Y ′58′58		evening set	11917 Feb 22 03:27	21°) (42'53	
asc. node	11916 Mar 13 19:21	4° Υ 47'09	0.666454==	min. Earth dist.	11917 Feb 26 02:01	17°) ₹56'18	0.65403 AU
min. Earth dist.	11916 Mar 14 18:29	3° Y 38'51	0.66846 AU	inferior conj	11917 Feb 28 07:17	15° ¥ 26'15	
inferior conj	11916 Mar 16 11:45	1° Y 32'23	0°51'01	minimum elong	11917 Feb 28 07:29	15° ¥ 25'39	0°07'19
minimum elong	11916 Mar 16 10:30	1° Y '36'14	0°50'36	transit middle	11917 Feb 28 07:29	15° ¥ 25'39	0°07'19

transit begin	11917 Feb 28 04:49	15°) 33′13		evening max el	11918 Jan 15 14:58	0° ₩ 06'56	27°30'30
transit end	11917 Feb 28 04:49 11917 Feb 28 10:10	15° X 18'07		evening max er	11918 Jan 15 12:04	0° ₩	27 30 30
asc. node	11917 Feb 28 10:10 11917 Feb 28 16:42	13 X 1807 14° X 59'42		ratrograda	11918 Jan 29 08:29	0 X 7° ¥ 30'41	
		9° H 53'53		retrograde	11918 Jan 29 08.29 11918 Feb 05 06:21	5° ∺ 02'39	
morning rise	11917 Mar 06 13:01	9 ₹3333 9°¥13'46		evening set			0.62610.411
direct	11917 Mar 09 06:38	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10000115	min. Earth dist.	11918 Feb 09 01:01	1° ¥ 46'34	0.63619 AU
morning max el	11917 Mar 15 15:23	12°) 33′52	18°02'15		11918 Feb 10 19:08	30°R≈	101610
	11917 Mar 28 01:20	0° Υ		inferior conj	11918 Feb 11 17:27	29°≈02'45	
morning set	11917 Apr 02 20:32	9° Y 27'20		minimum elong	11918 Feb 11 19:53	28°≈56'31	1°14'38
desc. node	11917 Apr 03 01:02	9° Ƴ 45'44		asc. node	11918 Feb 15 14:03	25° ≈ 28′16	
	11917 Apr 15 14:22	9° 8		morning rise	11918 Feb 18 11:40	23° ≈ 45'30	
				direct	11918 Feb 20 21:22	23° ≈ 17'12	
superior conj	11917 Apr 17 10:36	2° 8 54'52		morning max el	11918 Feb 27 09:04	26°≈37'26	17°47'33
minimum elong	11917 Apr 17 01:21	2° 8 18'22			11918 Mar 02 07:58	0° ∀	
max. Earth dist.	11917 Apr 20 12:50	7° 8 46'36	1.45593 AU	morning set	11918 Mar 15 20:49	21° ∺ 39'01	
evening rise	11917 May 03 13:12	27° 8 59'16		desc. node	11918 Mar 20 21:38	0° Υ 14'03	
	11917 May 04 20:32	$\Pi^{\circ}0$			11918 Mar 20 18:19	0° Y	
greatest brilliancy	11917 May 16 18:50	18° Ⅱ 09'10	-0.7m				
	11917 May 25 08:00	0ං ම		superior conj	11918 Mar 28 13:23	12° Ƴ 57'22	-0°56'01
asc. node	11917 May 27 14:08	2° 5 37'09		minimum elong	11918 Mar 28 07:31	12° Ƴ 33′28	0°55'17
evening max el	11917 May 28 12:48	3° © 36'20	19°31'46	max. Earth dist.	11918 Apr 03 07:26	22° Ƴ 12'41	1.44750 AU
retrograde	11917 Jun 04 17:58	7°9540'50			11918 Apr 08 06:17	9° 8	
evening set	11917 Jun 08 10:12	6°\$22'02		evening rise	11918 Apr 13 00:33	7° 8 21'33	
inferior conj	11917 Jun 13 19:09	0° © 27'45	3°14'37		11918 Apr 28 03:57	Π° 0	
minimum elong	11917 Jun 13 19:31	0°\$26'32	3°13'47	evening max el	11918 May 11 14:29	17° Ⅲ 21'38	20°33'01
	11917 Jun 14 03:31	30° Ŗ Ⅱ		asc. node	11918 May 14 11:19	19° Ⅱ 54'39	
min. Earth dist.	11917 Jun 15 00:53	28° Ⅱ 49'24	0.67236 AU	retrograde	11918 May 19 16:53	22° Ⅱ 03'18	
morning rise	11917 Jun 19 04:26	24° Ⅱ 05'42		evening set	11918 May 23 18:43	20° Ⅲ 28′22	
direct	11917 Jun 25 04:10	21° Ⅱ 27'44		inferior conj	11918 May 29 01:17	14° Ⅱ 21'29	3°12'34
desc. node	11917 Jun 30 01:33	22° II 52'36		minimum elong	11918 May 29 00:37	14° Ⅱ 23'48	3°11'45
morning max el	11917 Jul 07 10:33	28° Ⅱ 48'37	25°31'26	min. Earth dist.	11918 May 29 17:02	13° Ⅱ 27'19	0.68200 AU
. <i>&</i>	11917 Jul 08 14:02	0°95		morning rise	11918 Jun 03 06:16	8° Ⅱ 02'27	
	11917 Jul 30 16:06	0°N		direct	11918 Jun 08 18:01	5° Ⅱ 36'41	
morning set	11917 Aug 12 10:54	21° Ω 36'42		desc. node	11918 Jun 16 22:36	9° ∏ 32'29	
max. Earth dist.	11917 Aug 16 02:41	28° Ω 22'26	1.36046 AU	morning max el	11918 Jun 19 20:30	12° Ⅱ 15'37	24°04'39
man. Darm dist.	11917 Aug 16 23:17	0° m	1.500.10.110	morning man er	11918 Jul 04 02:21	0°9	2.0.0
	11)17 1146 10 23.17	V 132			11918 Jul 23 11:09	$0^{\circ}\Omega$	
superior conj	11917 Aug 22 04:15	10° m 10'18	-0°13'31	morning set	11918 Jul 25 07:14	3° Ω 07'53	
minimum elong	11917 Aug 22 05:06	10° m) 14'32		max. Earth dist.	11918 Jul 29 00:28	9°Ω38'15	
behind sun begin							1 38276 ATT
ocimia sun ocemi	Č	•	0 13 42	max. Earth dist.	11918 Jul 29 00.28	9 063013	1.38276 AU
behind sun end	11917 Aug 22 01:45	9° m 57'49	0 13 42				
behind sun end	11917 Aug 22 01:45 11917 Aug 22 08:26	9° mp 57'49 10° mp 31'16	0 1342	superior conj	11918 Aug 05 07:32	23° Ω 04'54	-0°47'10
asc. node	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13	9° m 57'49 10° m 31'16 13° m 01'02	0 1342		11918 Aug 05 07:32 11918 Aug 05 10:46	23°Ω04'54 23°Ω20'20	-0°47'10
	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12	0 1342	superior conj minimum elong	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35	23° N 04'54 23° N 20'20 0° M	-0°47'10
asc. node evening rise	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° <u>a</u>		superior conj minimum elong asc. node	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56	23°\O4'54 23°\O20'20 0°\m 3°\m\03'02	-0°47'10
asc. node	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32		superior conj minimum elong	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44	23° € 004'54 23° € 20'20 0° mp 3° mp 03'02 10° mp 25'55	-0°47'10
asc. node evening rise evening max el	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M.		superior conj minimum elong asc. node evening rise	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07	23° Ω04'54 23° Ω20'20 0° m 3° m 03'02 10° m 25'55 0° Ω	-0°47′10 0°47′08
asc. node evening rise evening max el desc. node	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24		superior conj minimum elong asc. node evening rise evening max el	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28	23° \$\O4'54\$ 23° \$\O20'20\$ 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\$\O3'02\$ 10° \$\mathbf{m}\$\var25'55\$ 0° \$\oldowrightarrow{\Omega}\$ 7° \$\Omega\$\Lambda\$\Lambda\$\Lambda\$!55	-0°47'10
asc. node evening rise evening max el desc. node retrograde	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16		superior conj minimum elong asc. node evening rise evening max el retrograde	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01	23° \$\O4'54\$ 23° \$\O20'20\$ 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\$\O3'02\$ 10° \$\mathbf{m}\$\var25'55\$ 0° \$\mathbf{n}\$ 7° \$\mathbf{n}\$\I1'55\$ 11° \$\mathbf{n}\$\Sigma 6'09	-0°47′10 0°47′08
asc. node evening rise evening max el desc. node	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Sep 29 05:10	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16 0° M 34'19		superior conj minimum elong asc. node evening rise evening max el retrograde evening set	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43	23° \$\O4'54\$ 23° \$\O20'20\$ 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\O3'\O2\$ 10° \$\mathbf{m}\O3'\O2\$ 7° \$\Omega\$ 11'55 11° \$\Omega\$ 36'\O9\$ 11° \$\Omega\$ 25'\O9\$	-0°47′10 0°47′08
asc. node evening rise evening max el desc. node retrograde evening set	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Sep 29 05:10 11917 Oct 01 10:39	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° <u>a</u> 25° <u>a</u> 32'32 0° m. 0° m 39'24 0° m 44'16 0° m 34'19 30° <u>a</u>	20°00'09	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11	23° № 04'54 23° № 20'20 0° № 3° № 03'02 10° № 25'55 0° Ω 7° Ω 11'55 11° Ω 36'09 11° Ω 25'09 10° Ω 36'57	-0°47'10 0°47'08 19°00'55
asc. node evening rise evening max el desc. node retrograde evening set inferior conj	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M. 0° M 39'24 0° M 44'16 0° M 34'19 30° R Ω 26° Ω 34'34	20°00'09 -3°41'13	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35	23° \$\O4'54\\ 23° \$\O20'20\\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m}\O3'02\\ 10° \$\mathbf{m}\\ 25'55\\ 0° \$\mathbf{\Omega}\\ 7° \$\mathbf{\Omega}\) 11'55\\ 11° \$\mathbf{\Omega}\) 36'57\\ 7° \$\mathbf{\Omega}\) 10'06	-0°47'10 0°47'08 19°00'55
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° \(\Omega\) 0° m 39'24 0° m 34'19 30° R \(\Omega\) 26° \(\Omega\) 34'34 26° \(\Omega\) 48'36	20°00'09 -3°41'13 3°37'50	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52	23° \$\O4'54\ 23° \$\O20'20\ 0° \$\mathbf{m}\ 3° \$\mathbf{m}\03'02\ 10° \$\mathbf{m}\25'55\ 0° \$\mathbf{\Omega}\ 7° \$\mathbf{\Omega}\11'55\ 11° \$\mathbf{\Omega}\36'57\ 7° \$\mathbf{\Omega}\10'06\ 7° \$\mathbf{\Omega}\18'16\	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 09 23:55	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° \(\Omega\) 0° \(\Omega\) 39'24 0° \(\Omega\) 44'16 0° \(\Omega\) 30° \(\Omega\) 26° \(\Omega\) 34'34 26° \(\Omega\) 48'36 25° \(\Omega\) 28'14	20°00'09 -3°41'13	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10	23° \$\O4'54\ 23° \$\O20'20\ 0° \$\mathbf{m}\ 3° \$\mathbf{m}\03'02\ 10° \$\mathbf{m}\25'55\ 0° \$\oad{\Omega}\ 7° \$\Omega\$11'55\ 11° \$\Omega\$36'57\ 7° \$\Omega\$10'06\ 7° \$\Omega\$18'16\ 5° \$\Omega\$09'59	-0°47'10 0°47'08 19°00'55
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 09 23:55 11917 Oct 16 07:01	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\odols \) 25° \(\odols \) 32'32 0° \(\odols \) 0° \(\odols \) 0° \(\odols \) 30° \(\odols \) 26° \(\odols \) 30° \(\odols \) 26° \(\odols \) 34'34 26° \(\odols \) 48'36 25° \(\odols \) 28'14 22° \(\odols \) 23'03	20°00'09 -3°41'13 3°37'50	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55	23° \$\O4'54\ 23° \$\O20'20\ 0° m 3° m 03'02\ 10° m 25'55\ 0° \(\O25'09\) 11° \(\O25'09\) 10° \(\O25'09\) 10° \(\O25'09\) 7° \(\O25'09\) 10' \(\O25'09\) 7° \(\O25'09\) 10' \(\O25'09\) 5° \(\O25'09\) 2° \(\O22'51\)	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° \(\Omega\) 0° \(\Omega\) 0° \(\Omega\) 34'19 30° \(\Omega\) 26° \(\Omega\) 34'34 26° \(\Omega\) 48'36 25° \(\Omega\) 28'14 22° \(\Omega\) 23'03 21° \(\Omega\) 34'53	20°00'09 -3°41'13 3°37'50 0.55001 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06	23° \$\O4'54\ 23° \$\O20'20\ 0° m\ 3° m\03'02\ 10° m\25'55\ 0° \(\odolor\) 7° \(\odolor\) 11' \(\odolor\) 25'55 11' \(\odolor\) 10' \(\odolor\) 25'09 10' \(\odolor\) 36'57 7° \(\odolor\) 10'06 7° \(\odolor\) 18'16 5° \(\odolor\) 20'9'59 2° \(\odolor\) 22'51 1° \(\odolor\) 11'26	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 06 07:01 11917 Oct 16 07:01 11917 Oct 20 23:55 11917 Oct 20 23:52 11917 Nov 03 16:21	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16 0° M 34'19 30° R Ω 26° Ω 34'34 26° Ω 48'36 25° Ω 28'14 22° Ω 23'03 21° Ω 34'53 28° Ω 18'58	20°00'09 -3°41'13 3°37'50	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	11918 Aug 05 07:32 11918 Aug 08 21:35 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32	23° \$\O4'54\ 23° \$\O2'20\ 0° m\ 3° m\03'02\ 10° m\25'55\ 0° \(\Omega\) 7° \(\Omega\)11'55\ 11° \(\Omega\)36'09\ 11° \(\Omega\)25'09\ 10° \(\Omega\)36'57\ 7° \(\Omega\)10'06\ 7° \(\Omega\)18'16\ 5° \(\Omega\)09'59\ 2° \(\Omega\)22'51\ 1° \(\Omega\)11'26\ 8° \(\Omega\)27'59	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 16 07:01 11917 Oct 16 07:01 11917 Oct 20 23:55 11917 Nov 03 16:21 11917 Nov 05 09:03	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\odols \) 25° \(\odols \) 32'32 0° \(\odols \) 0° \(\odols \) 0° \(\odols \) 30° \(\odols \) 26° \(\odols \) 30° \(\odols \) 26° \(\odols \) 34'34 26° \(\odols \) 28' \(\odols \) 21° \(\odols \) 21° \(\odols \) 34'53 28° \(\odols \) 18'58 0° \(\odols \)	20°00'09 -3°41'13 3°37'50 0.55001 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11918 Aug 05 07:32 11918 Aug 08 21:35 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 01 06:42	23° \$\O4'54 23° \$\O2'20 0° m 3° m 03'02 10° m 25'55 0° \Omega 7° \Omega 11'55 11° \Omega 36'09 11° \Omega 25'09 10° \Omega 36'57 7° \Omega 10'06 7° \Omega 18'16 5° \Omega 09'59 2° \Omega 22'51 1° \Omega 11'26 8° \Omega 27'59 0° M.	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 05 09:03 11917 Nov 19 15:23	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° \(\Omega\) 0° \(\Omega\) 39'24 0° \(\Omega\) 44'16 0° \(\Omega\) 34'19 30° \(\Omega\) 26° \(\Omega\) 34'34 26° \(\Omega\) 48'36 25° \(\Omega\) 28'14 22° \(\Omega\) 23'03 21° \(\Omega\) 34'53 28° \(\Omega\) 18'58 0° \(\Omega\) 20° \(\Omega\) 19'48	20°00'09 -3°41'13 3°37'50 0.55001 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 06 12:14	23° \$\O4\)0454 23° \$\O4\)02020 0° my 3° my 03'02 10° my 25'55 0° \Omega 7° \Omega 11'55 11° \Omega 36'09 11° \Omega 25'09 10° \Omega 36'57 7° \Omega 10'06 7° \Omega 18'16 5° \Omega 09'59 2° \Omega 22'51 1° \Omega 11'26 8° \Omega 27'59 0° ml 9° ml 25'43	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 04 17:12	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° \(\Omega\) 0° \(\Omega\) 34'34 0° \(\Omega\) 43'4 26° \(\Omega\) 43'34 26° \(\Omega\) 43'34 26° \(\Omega\) 23'03 21° \(\Omega\) 34'53 28° \(\Omega\) 18'58 0° \(\Omega\) 20° \(\Omega\) 19'48 0° \(\Zeta\)	20°00'09 -3°41'13 3°37'50 0.55001 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 06 12:14 11918 Nov 13 04:11	23° \$\O4\)'54 23° \$\O4\)'54 23° \$\O4\)'02 0° m 3° m\03\'02 10° m\25\'55 0° \Omega 7° \Omega 11\'55 11° \Omega 36\'09 11° \Omega 25\'09 10° \Omega 36\'57 7° \Omega 10\'06 7° \Omega 18\'16 5° \Omega 09\'59 2° \Omega 22\'51 1° \Omega 11\'26 8° \Omega 27\'59 0° m 9° m\25\'43 22° \Omega 59\'11	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 05 09:03 11917 Nov 19 15:23	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° \(\Omega\) 0° \(\Omega\) 39'24 0° \(\Omega\) 44'16 0° \(\Omega\) 34'19 30° \(\Omega\) 26° \(\Omega\) 34'34 26° \(\Omega\) 48'36 25° \(\Omega\) 28'14 22° \(\Omega\) 23'03 21° \(\Omega\) 34'53 28° \(\Omega\) 18'58 0° \(\Omega\) 20° \(\Omega\) 19'48	20°00'09 -3°41'13 3°37'50 0.55001 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 06 12:14	23° \$\O4\)0454 23° \$\O4\)02020 0° my 3° my 03'02 10° my 25'55 0° \Omega 7° \Omega 11'55 11° \Omega 36'09 11° \Omega 25'09 10° \Omega 36'57 7° \Omega 10'06 7° \Omega 18'16 5° \Omega 09'59 2° \Omega 22'51 1° \Omega 11'26 8° \Omega 27'59 0° ml 9° ml 25'43	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 13 16:21 11917 Nov 19 15:23 11917 Nov 24 17:12 11917 Nov 28 17:05	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\Omega\) 25° \(\Omega\) 32'32 0° m \(\Omega\) 0° m \(\Omega\) 0° m \(\Omega\) 44'16 0° m \(\Omega\) 44'19 30° R \(\Omega\) 26° \(\Omega\) 34'34 26° \(\Omega\) 48'36 25° \(\Omega\) 28'14 22° \(\Omega\) 23'03 21° \(\Omega\) 34'53 28° \(\Omega\) 18'58 0° m \(\Omega\) 20° m \(\Omega\) 19'48 0° \(\omega\) 8° \(\omega\) 18'48	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 01 06:42 11918 Nov 06 12:14 11918 Nov 13 04:11 11918 Nov 16 09:29	23° \$\Pi\04'54\ 23° \$\Pi\04'54\ 23° \$\Pi\02'20\ 0° \$\mu\03'02\ 10° \$\mu\025'55\ 0° \$\Omega\025'55\ 11° \$\Omega\36'57\ 7° \$\Omega\10'06\ 7° \$\Omega\18'16\ 5° \$\Omega\09'59\ 2° \$\Omega\22'51\ 1° \$\Omega\11'26\ 8° \$\Omega\27'59\ 0° \$\mu\09'\$\mu\025'43\ 22° \$\mu\05'9'11\ 0° \$\mu\00'\$	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 01 10:39 11917 Oct 07 18:42 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 10 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 04 17:12 11917 Nov 24 17:12 11917 Nov 28 17:05	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° \(\odols \) 25° \(\odols \) 25° \(\odols \) 32'32 0° \(\odols \) 0° \(\odols \) 0° \(\odols \) 30° \(\odols \) 26° \(\odols \) 34'34 26° \(\odols \) 34'34 22° \(\odols \) 23' \(\odols \) 21° \(\odols \) 34'53 28° \(\odols \) 18'58 0° \(\odols \) 20° \(\odols \) 3' \(\	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 01 06:42 11918 Nov 10 06:42 11918 Nov 11 04:11 11918 Nov 16 09:29	23° \$\Pi\04'54\ 23° \$\Pi\04'54\ 23° \$\Pi\02'20\ 0° \$\mathbf{m}\\ 3° \$\mathbf{m}\03'02\ 10° \$\mathbf{m}\25'55\ 0° \$\mathbf{n}\\ 7° \$\mathbf{n}\11'55\ 11° \$\mathbf{n}\36'57\ 7° \$\mathbf{n}\10'06\ 7° \$\mathbf{n}\18'16\ 5° \$\mathbf{n}\90'59\ 2° \$\mathbf{n}\22'51\ 1° \$\mathbf{n}\11'26\ 8° \$\mathbf{n}\27'59\ 0° \$\mathbf{m}\\ 9° \$\mathbf{m}\25'43\ 22° \$\mathbf{m}\25'11\ 0° \$\mathbf{n}\\ 7° \$\mathbf{n}\56'59\	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 01 10:39 11917 Oct 07 18:42 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 10 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 04 17:12 11917 Nov 24 17:12 11917 Nov 28 17:05 11917 Dec 05 13:02 11917 Dec 05 13:02	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16 0° M 34'19 30° R Ω 26° Ω 34'34 26° Ω 48'36 25° Ω 28'14 22° Ω 23'03 21° Ω 34'53 28° Ω 18'58 0° M 20° M 19'48 0° 🛪 8° 🛪 18'48 23° 🛪 13'22	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42 1°38'52 1°39'40	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 05 10:46 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 10 06:42 11918 Nov 10 06:42 11918 Nov 10 06:42 11918 Nov 10 09:29 11918 Nov 19 23:32 11918 Nov 19 23:32	23° \$\Pi04'54 23° \$\Pi02'20 0° m 3° m 03'02 10° m 25'55 0° \(\oldsymbol{\Pi} \) 10° \(\oldsymbol{\Pi} \) 25'55 11° \(\oldsymbol{\Pi} \) 25'09 10° \(\oldsymbol{\Pi} \) 20' \(\oldsymbol{\Pi} \) 2° \(\oldsymbol{\Pi} \) 3° \(\oldsymbol{\Pi} \) 2° \(\oldsymbol{\Pi} \) 3° \(\oldsymbol{\Pi} \	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 05 09:03 11917 Nov 19 15:23 11917 Nov 24 17:12 11917 Nov 28 17:05 11917 Dec 05 13:02 11917 Dec 05 13:13 11917 Dec 07 18:40	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° n 25° n 32'32 0° m 0° m 39'24 0° m 44'16 0° m 34'19 30° R n 26° n 34'34 26° n 48'36 25° n 28'14 22° n 23'03 21° n 34'53 28° n 18'58 0° m 20° m 19'48 0° x 8° x 18'48 23° x 13'22 28° x 03'13	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 11 01:56 11918 Aug 12 42:307 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 01 06:42 11918 Nov 10 06:42 11918 Nov 10 09:29 11918 Nov 19 23:32 11918 Nov 19 22:39 11918 Nov 21 00:03	23° \$\O4'54 23° \$\O20'20 0° m 3° m 03'02 10° m 25'55 0° \(\odolor \od	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 05 09:03 11917 Nov 19 15:23 11917 Nov 24 17:12 11917 Nov 28 17:05 11917 Dec 05 13:02 11917 Dec 05 13:13 11917 Dec 07 18:40 11917 Dec 08 16:27	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16 0° M 34'19 30° R Ω 26° Ω 34'34 26° Ω 48'36 25° Ω 28'14 22° Ω 23'03 21° Ω 34'53 28° Ω 18'58 0° M 20° M 19'48 0° 🛪 8° 🛪 18'48 23° 🛪 13'22 28° 🛪 03'13 0° ጜ	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42 1°38'52 1°39'40	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 08 21:35 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 10 06:42	23° \$\O4'54 23° \$\O20'20 0° m 3° m 03'02 10° m 25'55 0° \(\odolor \od	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 07 18:42 11917 Oct 16 07:01 11917 Oct 16 07:01 11917 Oct 20 23:55 11917 Nov 03 16:21 11917 Nov 05 09:03 11917 Nov 19 15:23 11917 Nov 24 17:12 11917 Nov 28 17:05 11917 Dec 05 13:02 11917 Dec 05 13:13 11917 Dec 07 18:40 11917 Dec 08 16:27 11917 Dec 08 16:27 11917 Dec 12 23:34	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16 0° M 34'19 30° R Ω 26° Ω 34'34 26° Ω 34'34 26° Ω 34'34 22° Ω 23'03 21° Ω 34'53 28° Ω 18'58 0° M 20° M 19'48 0° ズ 8° ズ 18'48 23° ズ 12'23 23° ズ 13'22 28° ズ 03'13 0° ♂ 8° ♂ 557'16	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42 1°38'52 1°39'40	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 08 21:35 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 21 13:10 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 01 06:42 11918 Nov 01 06:42 11918 Nov 10 06:42 11918 Nov 10 06:29 11918 Nov 19 23:32 11918 Nov 19 23:32 11918 Nov 19 22:39 11918 Nov 21 00:03 11918 Nov 26 23:47 11918 Nov 30 08:19	23° \$\Pi004'54 23° \$\Pi020'20 0° my 3° my 03'02 10° my 25'55 0° \(\oldsymbol{n}\) 7° \(\oldsymbol{n}\) 11'55 11° \(\oldsymbol{n}\) 36'09 10° \(\oldsymbol{n}\) 36'57 7° \(\oldsymbol{n}\) 10'06 7° \(\oldsymbol{n}\) 10'06 7° \(\oldsymbol{n}\) 10'06 7° \(\oldsymbol{n}\) 10'06 8° \(\oldsymbol{n}\) 22'51 1° \(\oldsymbol{n}\) 11'26 8° \(\oldsymbol{n}\) 27'59 0° \(\oldsymbol{n}\) 9° \(\oldsymbol{n}\) 25'43 22° \(\oldsymbol{n}\) 59'11 0° \(\oldsymbol{n}\) 7° \(\oldsymbol{n}\) 56'59 7° \(\oldsymbol{n}\) 52'05 10° \(\oldsymbol{n}\) 12'47 23° \(\oldsymbol{n}\) 99'13 0° \(\oldsymbol{n}\)	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47
asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	11917 Aug 22 01:45 11917 Aug 22 08:26 11917 Aug 23 14:13 11917 Aug 30 04:16 11917 Aug 31 21:48 11917 Sep 16 20:07 11917 Sep 23 07:24 11917 Sep 25 22:47 11917 Sep 27 06:40 11917 Oct 01 10:39 11917 Oct 01 10:39 11917 Oct 08 04:00 11917 Oct 09 23:55 11917 Oct 16 07:01 11917 Oct 20 23:52 11917 Nov 03 16:21 11917 Nov 05 09:03 11917 Nov 19 15:23 11917 Nov 24 17:12 11917 Nov 28 17:05 11917 Dec 05 13:02 11917 Dec 05 13:13 11917 Dec 07 18:40 11917 Dec 08 16:27	9° m 57'49 10° m 31'16 13° m 01'02 26° m 29'12 0° Ω 25° Ω 32'32 0° M 0° M 39'24 0° M 44'16 0° M 34'19 30° R Ω 26° Ω 34'34 26° Ω 48'36 25° Ω 28'14 22° Ω 23'03 21° Ω 34'53 28° Ω 18'58 0° M 20° M 19'48 0° 🛪 8° 🛪 18'48 23° 🛪 13'22 28° 🛪 03'13 0° ጜ	20°00'09 -3°41'13 3°37'50 0.55001 AU 24°18'42 1°38'52 1°39'40	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	11918 Aug 05 07:32 11918 Aug 08 21:35 11918 Aug 08 21:35 11918 Aug 10 10:56 11918 Aug 14 04:44 11918 Aug 24 23:07 11918 Aug 30 14:28 11918 Sep 08 10:01 11918 Sep 10 06:43 11918 Sep 12 20:11 11918 Sep 18 15:35 11918 Sep 18 10:52 11918 Sep 26 11:55 11918 Oct 02 00:06 11918 Oct 16 04:32 11918 Nov 10 06:42	23° \$\O4'54 23° \$\O20'20 0° m 3° m 03'02 10° m 25'55 0° \(\odolor \od	-0°47'10 0°47'08 19°00'55 -1°49'24 1°47'32 0.56324 AU 25°58'47

evening max el	11918 Dec 28 23:40	12° ≈ 47'16	27°24'27		11919 Nov 07 18:03	0° ∡ 7	
retrograde	11919 Jan 11 21:23	20°≈04'41	2, 2.2,	evening rise	11919 Nov 11 05:43	7° ∡ ³34'48	
evening set	11919 Jan 18 20:20	17°≈50'15			11919 Nov 22 19:36	0°ප	
min. Earth dist.	11919 Jan 22 14:04	14° ≈ 58'34	0.61582 AU	desc. node	11919 Nov 26 14:42	6° ප 14'51	
inferior conj	11919 Jan 25 15:05	12° ≈ 13'58	-2°32'28	evening max el	11919 Dec 11 02:24	24° る 41'30	26°44'05
minimum elong	11919 Jan 25 20:20	12° ≈ 02'05	2°29'47	Č	11919 Dec 18 06:03	0° ≈	
morning rise	11919 Feb 01 23:07	7° ≈ 14'38		retrograde	11919 Dec 25 01:06	1° ≈ 49'44	
asc. node	11919 Feb 02 11:21	7° ≈ 06'19		evening set	11919 Dec 31 17:36	29° る 57'50	
direct	11919 Feb 04 03:11	6° ≈ 54'24			11919 Dec 31 16:00	30°Ŗる	
morning max el	11919 Feb 11 01:45	10° ≈ 24'49	17°50'47	min. Earth dist.	11920 Jan 04 16:33	27° る 20'23	0.59437 AU
	11919 Feb 24 01:27	0° ∀		inferior conj	11920 Jan 07 20:40	24° る 50'40	-3°51'35
morning set	11919 Feb 26 18:07	4°) € 50'03		minimum elong	11920 Jan 08 04:28	24° る 35'18	3°48'17
desc. node	11919 Mar 07 18:14	20°) 49′30		morning rise	11920 Jan 15 18:09	20° る 12'02	
				direct	11920 Jan 17 20:10	19° る 56'11	
superior conj	11919 Mar 09 16:26	24° ∺ 08'31		asc. node	11920 Jan 20 08:34	20° る 20'24	
minimum elong	11919 Mar 09 15:05	24°) €02'43	0°14'27	morning max el	11920 Jan 25 13:54	23° る 46'13	18°13'17
behind sun begin	11919 Mar 09 11:23	23°) 46′55			11920 Jan 30 14:09	0° ≈	
behind sun end	11919 Mar 09 18:46	24° ∺ 18'30		morning set	11920 Feb 10 06:28	18° ≈ 42'43	
	11919 Mar 13 03:33	0° Υ			11920 Feb 16 06:45	0° ∀	
max. Earth dist.	11919 Mar 16 22:30	6° Y 15′13	1.43278 AU				
evening rise	11919 Mar 23 17:56	17° Y ′07'04		superior conj	11920 Feb 19 18:48	6°) 24'49	
	11919 Apr 01 04:14	0°B		minimum elong	11920 Feb 19 20:27	6° ¥ 32'16	0°22'14
	11919 Apr 23 08:35	Π °0		desc. node	11920 Feb 22 14:52	11° ∺ 28'41	
evening max el	11919 Apr 24 10:41	1° ∏ 07'45	21°45'48	max. Earth dist.	11920 Feb 27 09:20	19°) 43′20	1.41336 AU
asc. node	11919 May 01 08:32	6° Ⅱ 07'15		evening rise	11920 Mar 03 04:53	27°) (42'27	
retrograde	11919 May 03 15:01	6° Ⅲ 31'45			11920 Mar 04 14:56	0° Υ	
evening set	11919 May 08 03:22	4° ∏ 41'11			11920 Mar 24 19:29	0°8	22005115
	11919 May 12 06:11	30°₹ 8	2050125	evening max el	11920 Apr 06 02:51	14° 8 56'24	23°05'15
inferior conj	11919 May 13 10:00	28° 8 23'43	2°59'25	retrograde	11920 Apr 16 10:54	21° 8 02'15	
minimum elong	11919 May 13 08:30	28° 8 28'59	2°58'33	asc. node	11920 Apr 17 05:49	20° 8 59'19	
min. Earth dist.	11919 May 13 12:34	28° 8 14'46	0.68703 AU	evening set	11920 Apr 21 10:38	18° 8 57'00	2927100
morning rise	11919 May 18 13:25	22° 8 09'46 20° 8 01'46		inferior conj	11920 Apr 26 19:21	12° 8 31'40 12° 8 38'42	
direct	11919 May 23 12:12 11919 Jun 02 07:30	25° 8 49'08	22°34'55	minimum elong min. Earth dist.	11920 Apr 26 17:19	13° 8 06'18	0.68749 AU
morning max el desc. node	11919 Jun 02 07.30 11919 Jun 03 19:33	23 8 49 08 27° 8 23'21	22 34 33	morning rise	11920 Apr 26 09:20 11920 May 01 23:54	6° 8 24'14	0.08/49 AU
desc. node	11919 Jun 06 02:55	27 O 23 21		direct	11920 May 01 23.34 11920 May 06 09:34	4° 8 37'02	
	11919 Jun 27 14:23	0ಂ ತಾ		morning max el	11920 May 14 23:02		21°10'43
morning set	11919 Jul 06 03:21	13° © 32'40		desc. node	11920 May 14 25:02 11920 May 20 16:24	16° 8 06'26	21 10 43
max. Earth dist.	11919 Jul 10 22:33	21° © 32'05	1.40594 AU	dese. Hode	11920 May 30 19:23	0°П	
max. Darm dist.	11919 Jul 15 20:06	0° Ω	1.40374 710	morning set	11920 Jun 14 21:50	22° ∏ 49'17	
	11717 341 13 20.00	0 00		morning set	11920 Jun 19 10:18	0°95	
superior conj	11919 Jul 18 18:23	5° Ω 13'10	-1°20'56	max. Earth dist.	11920 Jun 22 02:42		1.42717 AU
minimum elong	11919 Jul 19 00:05	5° Ω 38'57		man. Barar alot.	11,20 0411 22 02.12	2000	1.12/1/110
asc. node	11919 Jul 28 07:41	22° Ω 57'16		superior conj	11920 Jun 29 08:23	16° © 25'32	-1°50'30
evening rise	11919 Jul 28 19:48	23° Ω 54'28		minimum elong	11920 Jun 29 15:10	16° 9 54'30	
C	11919 Aug 01 01:45	0° m/y		S	11920 Jul 07 02:59	$0^{\circ}\Omega$	
evening max el	11919 Aug 13 19:25	19° m 34'12	18°23'02	evening rise	11920 Jul 10 21:24	6° Ω 45'00	
retrograde	11919 Aug 21 08:19	23° m) 22'07		asc. node	11920 Jul 14 04:30	12° Ω 39'40	
evening set	11919 Aug 23 10:43	23°m/05'13			11920 Jul 25 01:19	0° m	
desc. node	11919 Aug 30 17:36	18° m 44'04		evening max el	11920 Jul 27 06:45	2°m/29'23	18°05'17
inferior conj	11919 Aug 31 00:41	18° m 29'43	-0°05'29	retrograde	11920 Aug 03 00:26	5° m 56'08	
minimum elong	11919 Aug 31 00:28	18° Mp 30'08	0°05'38	evening set	11920 Aug 05 10:35	5° m 29'33	
transit middle	11919 Aug 31 00:28	18° m 30'08	0°05'38	inferior conj	11920 Aug 12 06:33	0° Mp 33′26	1°16'26
transit begin	11919 Aug 30 21:10	18°M 36'50		minimum elong	11920 Aug 12 08:42	0° Mp 28'22	1°15'14
transit end	11919 Aug 31 03:47	18° m 23'25			11920 Aug 12 20:41	30° R Ω	
min. Earth dist.	11919 Sep 03 08:25	15° m 49'04	0.58274 AU	min. Earth dist.	11920 Aug 15 11:41	27° Ω 33′02	0.60521 AU
morning rise	11919 Sep 07 10:43	13° Mp 06'07		desc. node	11920 Aug 16 14:58	26° Ω 34'02	
direct	11919 Sep 13 14:46	11°Mp26'37		morning rise	11920 Aug 19 03:56	24° Ω 41′06	
morning max el	11919 Sep 27 22:50	19° Mp 06'22	27°13'48	direct	11920 Aug 25 17:37	22° Ω 34'17	
	11919 Oct 07 04:26	0∘ ⊽			11920 Sep 08 12:31	0° ™	
asc. node	11919 Oct 24 09:00	28° ≏ 55'01		morning max el	11920 Sep 09 00:29	0° m ,29′15	27°52'59
	11919 Oct 24 21:59	0°M			11920 Sep 30 07:57	0∘ ত	
morning set	11919 Oct 28 12:49	7° ™ 29'09		asc. node	11920 Oct 10 05:43	18° ≏ 41'03	
				morning set	11920 Oct 11 17:11	21° △ 44'00	
superior conj	11919 Nov 04 11:13	22°M41'39	1°29'14		11920 Oct 15 14:11	0° ™	
minimum elong	11919 Nov 04 09:30	22°M32'05	1°29'40	max. Earth dist.	11920 Oct 17 16:57	4° ™ 38'32	1.31466 AU
max. Earth dist.	11919 Nov 04 08:41	22°M27'33	1.31345 AU				

	11000 0 . 10 00 15	70 M 20170	1015156		11001 0	210 2 25125	00.5510.4
superior conj	11920 Oct 18 22:15	7°M20'50	1°15'56	minimum elong	11921 Oct 03 04:37	21° ≏ 37'27	0°57'04
minimum elong	11920 Oct 18 20:04	7°M08'41	1°16'03		11921 Oct 07 00:15	0°M	
evening rise	11920 Oct 25 15:16	22°M.08'05 0° <i>₹</i> 7		evening rise	11921 Oct 10 02:30	6°M43'50 0°⊀	
desc. node	11920 Oct 29 09:14	24° х ¹ 32'03		4 4.	11921 Oct 22 03:52	11° × ⁷ 44'05	
desc. node	11920 Nov 12 11:54 11920 Nov 16 14:59	24° x '32'03		desc. node evening max el	11921 Oct 30 09:10	16° × '44' 05	22055142
ovening may al	11920 Nov 16 14.59 11920 Nov 21 20:51	5° る 42'56	25921106	retrograde	11921 Nov 03 08:12 11921 Nov 16 22:09	22° × ⁷ 48'00	23 33 42
evening max el	11920 Nov 21 20.31 11920 Dec 05 17:42	3 34 2 36 12° 3 41'54	23 31 00	evening set	11921 Nov 16 22:09 11921 Nov 21 17:31	22 x 48 00 21° x 57'28	
retrograde evening set	11920 Dec 03 17.42 11920 Dec 11 17:37	12 3 41 34		min. Earth dist.	11921 Nov 27 18:49	18° x 59'27	0.55729 AU
min. Earth dist.	11920 Dec 11 17.37 11920 Dec 16 09:06		0.57396 AU	inferior conj	11921 Nov 27 18.49 11921 Nov 29 20:31	17° х 44'39	
inferior conj	11920 Dec 10 09:00 11920 Dec 19 06:51	6°る42'24		minimum elong	11921 Nov 29 20:51 11921 Nov 29 23:53	17° × 39'33	
minimum elong	11920 Dec 19 00:51 11920 Dec 19 14:54	6°る28'39		morning rise	11921 Nov 29 23:33 11921 Dec 08 08:12	17 x 3933	5 45 55
morning rise	11920 Dec 19 14:34 11920 Dec 27 14:34	0 02639 2° る 26'17	4 39 30	direct	11921 Dec 08 08:12 11921 Dec 11 00:07	13° x 30'36	
direct	11920 Dec 27 14:54 11920 Dec 29 19:59	2°る2017 2°る11'16		morning max el	11921 Dec 11 00:07	13 x 30 30 18° x 26′58	20°03'09
asc. node	11920 Dec 29 19:39 11921 Jan 06 05:45	5°る10'24		asc. node	11921 Dec 21 09:07 11921 Dec 24 02:51	21° x 2038	20 03 09
morning max el	11921 Jan 07 17:33	5 01024 6°る30'05	18°56'53	asc. node	11921 Dec 24 02:31 11921 Dec 30 02:38	21 メ ・23 48	
morning max er	11921 Jan 07 17:53	0°≈	18 30 33	morning set	11921 Dec 30 02:38 11922 Jan 08 10:22	0 る 17° る 37'35	
morning set	11921 Jan 24 05:02	0 ∞ 3°≈01'52		morning set	11922 Jan 08 10:22 11922 Jan 14 11:42	0° ≈	
morning set	11921 Jan 24 05.02	3 ~ 01 32			11922 Jan 14 11.42	0 ~	
superior conj	11921 Feb 01 16:01	19° ≈ 32'51	0°52'05	superior conj	11922 Jan 16 03:24	3°≈19'51	1°14'23
minimum elong	11921 Feb 01 18:52	19°≈46'25	0°52'15	minimum elong	11922 Jan 16 06:10	3°≈33'39	1°14'47
minimum ciong	11921 Feb 07 07:09	0°)	0 32 13	max. Earth dist.	11922 Jan 21 23:09	14°≈39'23	1.36931 AU
desc. node	11921 Feb 07 07.09 11921 Feb 08 11:33	0 X 2° ∺ 07'21		evening rise	11922 Jan 25 17:12	21°≈34'21	1.30931 AU
max. Earth dist.	11921 Feb 08 11:33	2° X 29'38	1.39136 AU	desc. node	11922 Jan 26 08:18	21 ≈34 21 22°≈42'07	
evening rise	11921 Feb 08 10.33 11921 Feb 12 13:01	2 1 29 38 9° 	1.39130 AU	desc. node	11922 Jan 30 12:42	22 ≈ 4207 0°) €	
evening rise		9 γ (1247)				0°Υ	
	11921 Feb 25 12:25		24925125		11922 Feb 19 10:04	12° Υ 37'09	25020127
evening max el	11921 Mar 19 16:45	28° Y 46'51	24°25'25	evening max el	11922 Mar 02 06:03		25°39'27
. 1	11921 Mar 20 23:14	0°8		retrograde	11922 Mar 14 15:22	19° ℃ 45'08	
retrograde	11921 Mar 31 03:20	5° 8 28'43		evening set	11922 Mar 20 14:42	17° Υ 17'30	
asc. node	11921 Apr 04 03:09	4°816'42		asc. node	11922 Mar 22 00:31	15°Υ58'43	0.65506.433
evening set	11921 Apr 05 14:57	3° 8 10'43		min. Earth dist.	11922 Mar 24 21:54	12° Y 37'43	0.67506 AU
	11921 Apr 08 14:44	30° ₹ Υ		inferior conj	11922 Mar 26 08:20	10° ℃ 47'59	1°20'16
min. Earth dist.	11921 Apr 10 05:08	27° Y 55'46	0.68344 AU	minimum elong	11922 Mar 26 06:34	10° Y ′53'37	1°19'33
inferior conj	11921 Apr 11 03:26	26° Y 40'58	2°03'07	morning rise	11922 Mar 31 22:59	4° Y ′57′23	
minimum elong	11921 Apr 11 01:16	26° Y ′48′12	2°02'11	direct	11922 Apr 04 08:14	3° Y 51'43	
morning rise	11921 Apr 16 11:44	20° Y 41'17		morning max el	11922 Apr 11 04:17	7° Y ′34'40	19°00'05
direct	11921 Apr 20 08:44	19° Y 15'34		desc. node	11922 Apr 24 09:56	25° Y 15′27	
morning max el	11921 Apr 27 21:48	23° Y 28'38	19°58'00	greatest brilliancy	11922 Apr 24 12:51	25° Y ′26′27	-0.7m
	11921 May 03 12:35	0°B			11922 Apr 27 12:40	0°8	
desc. node	11921 May 07 13:12	5° 8 27'10		morning set	11922 May 04 04:30	10° 8 16'45	
	11921 May 24 01:22	Π °0			11922 May 16 20:41	Π °0	
morning set	11921 May 24 23:19	1° Ⅲ 24'20		max. Earth dist.	11922 May 18 06:25	2° Ⅱ 12'04	1.45424 AU
max. Earth dist.	11921 Jun 04 14:01	17° Ⅱ 59'40	1.44385 AU				
		_		superior conj	11922 May 20 15:01	5° ∏ 54'23	
superior conj	11921 Jun 09 22:28	26° Ⅱ 36′06		minimum elong	11922 May 20 11:58	5° ∏ 42'25	2°12'27
minimum elong	11921 Jun 10 02:31	26° Ⅱ 52'33	2°10'22	evening rise	11922 Jun 04 12:57	29° ∏ 47'33	
	11921 Jun 12 00:24	0			11922 Jun 04 16:01	0 \circ	
evening rise	11921 Jun 23 04:37	18° 9 45'56		asc. node	11922 Jun 17 22:23	21° © 07'05	
	11921 Jun 29 19:13	0 \circ Ω		evening max el	11922 Jun 24 10:00	29° © 20'56	18°26'14
asc. node	11921 Jul 01 01:24	2° Ω 05′10			11922 Jun 25 02:24	0 \circ Ω	
evening max el	11921 Jul 10 20:42	15° Ω 47'47	18°06'38	retrograde	11922 Jun 30 20:28	2° Ω 48'34	
retrograde	11921 Jul 17 05:59	19° Ω 08'09		evening set	11922 Jul 03 22:50	1° Ω 55'01	
evening set	11921 Jul 20 00:10	18° Ω 29'04			11922 Jul 06 10:41	30° ₹ॐ	
inferior conj	11921 Jul 26 05:33	13° Ω 14'28	2°14'15	inferior conj	11922 Jul 09 17:32	26° © 23'57	2°50'54
minimum elong	11921 Jul 26 08:11	13° Ω 07'24	2°12'55	minimum elong	11922 Jul 09 19:35	26°9517'53	2°49'46
min. Earth dist.	11921 Jul 29 00:26	10° Ω 16′22	0.62765 AU	min. Earth dist.	11922 Jul 11 22:37	23° 5 47'02	0.64796 AU
morning rise	11921 Aug 01 14:14	7° Ω 03'36		morning rise	11922 Jul 15 15:09	20° © 03'53	
desc. node	11921 Aug 03 12:18	5° Ω 50'15		desc. node	11922 Jul 21 09:37	17° 5 25'40	
direct	11921 Aug 08 06:45	4° Ω 35′21		direct	11922 Jul 22 04:38	17° © 23'29	
morning max el	11921 Aug 22 08:03	12° Ω 37'42	27°53'27	morning max el	11922 Aug 04 18:32	25° © 21'47	27°18'40
	11921 Sep 05 04:33	0° m)			11922 Aug 09 00:14	$0^{\circ}\Omega$	
	11921 Sep 22 19:01	0∘ ⊽			11922 Aug 29 16:41	0° m	
morning set	11921 Sep 25 15:12	5° ഫ 38'31		morning set	11922 Sep 09 04:09	19° m 04'55	
asc. node	11921 Sep 27 02:25	8° 亞 38'30		max. Earth dist.	11922 Sep 13 16:39	28° m 08'50	1.33243 AU
max. Earth dist.	11921 Sep 30 20:55	16° ≙ 35'37	1.32095 AU	asc. node	11922 Sep 13 23:05	28° m/42'03	
	-				11922 Sep 14 14:09	0∘ ⊽	
superior conj	11921 Oct 03 06:48	21° ≏ 49'23	0°57'14		1		
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superior conj	11922 Sep 17 10:43	6° ഫ 00'33	0°33'20	asc. node	11923 Aug 31 19:47	18° m 48'05	
minimum elong	11922 Sep 17 09:09	5° ჲ 52'10	0°33'02				
evening rise	11922 Sep 24 13:28	21° ≏ 15'51		superior conj	11923 Sep 01 07:35	19° m 48'26	0°04'45
	11922 Sep 28 18:43	0°M		minimum elong	11923 Sep 01 07:20	19° m 47'08	0°04'29
evening max el	11922 Oct 15 19:35	26°M05'09	22°14'41	behind sun begin	11923 Sep 01 01:34	19° m 17'40	
desc. node	11922 Oct 17 06:31	27°M26'04		behind sun end	11923 Sep 01 13:05	20° m 16'40	
	11922 Oct 20 16:56	0° ∡ ¹			11923 Sep 06 05:17	0∘ ত	
retrograde	11922 Oct 28 14:55	2° ₹ 27'00		evening rise	11923 Sep 08 22:15	5° ≙ 39'15	
evening set	11922 Oct 31 23:13	2° ҂ 02'13			11923 Sep 22 06:55	0° M	
	11922 Nov 06 04:39	30°RM₊		evening max el	11923 Sep 27 16:27	6° M ₊32'37	20°43'53
min. Earth dist.	11922 Nov 09 01:51	28°M26'19	0.54734 AU	desc. node	11923 Oct 04 03:53	11° M 09'29	
inferior conj	11922 Nov 09 17:41	28°M04'03	-5°41'29	retrograde	11923 Oct 09 01:54	12°ML11'56	
minimum elong	11922 Nov 09 12:32	28° M 11'18	5°40'18	evening set	11923 Oct 11 07:57	11° M 59'39	
morning rise	11922 Nov 18 03:12	24°M16'52		inferior conj	11923 Oct 20 09:35	8° M 04'44	-4°38'00
direct	11922 Nov 21 12:20	23°M51'20		minimum elong	11923 Oct 19 23:35	8°M19'02	4°34'56
morning max el	11922 Dec 03 10:41	29° M 31'18	21°31'36	min. Earth dist.	11923 Oct 21 09:17	7° M 30'46	0.54638 AU
	11922 Dec 03 22:37	0° ∡ 7		morning rise	11923 Oct 28 15:08	4° ጤ 07'50	
asc. node	11922 Dec 10 23:55	8° ∡ 143′29		direct	11923 Nov 01 20:42	3°M29'22	
	11922 Dec 22 16:33	8°0		morning max el	11923 Nov 15 00:52	9° ጤ 51'46	23°16'12
morning set	11922 Dec 23 19:50	2° る 21'55		asc. node	11923 Nov 27 20:52	26°M54'12	
					11923 Nov 29 15:31	0°⊀	
superior conj	11922 Dec 31 00:56	17° る 33'53	1°29'15	morning set	11923 Dec 08 07:21	17° ∡ ¹09'00	
minimum elong	11922 Dec 31 02:53	17° る 44'04	1°29'54		11923 Dec 14 06:07	0°ರ	
max. Earth dist.	11923 Jan 04 10:04	26° る 31'15	1.34946 AU				
	11923 Jan 06 04:17	0° ≈		superior conj	11923 Dec 15 05:25	2° る 05'46	1°37'12
evening rise	11923 Jan 08 14:06	4° ≈ 38′26		minimum elong	11923 Dec 15 06:16	2° る 10'19	1°38'00
desc. node	11923 Jan 13 05:07	13° ≈ 08'40		max. Earth dist.	11923 Dec 18 04:50	8° ♂ 26′06	1.33338 AU
	11923 Jan 23 08:42	0° ∀		evening rise	11923 Dec 23 00:06	18° る 15'41	
evening max el	11923 Feb 12 19:38	26° ∺ 22′20	26°40'06		11923 Dec 29 04:39	0° ≈	
	11923 Feb 17 00:01	0° Y		desc. node	11923 Dec 31 01:59	3° ≈ 21'59	
retrograde	11923 Feb 25 22:08	3° Y '44'21			11924 Jan 17 14:40	0° ∀	
evening set	11923 Mar 04 08:07	1° Y 11'49		evening max el	11924 Jan 26 08:58	9° ∺ 52'51	27°19'55
	11923 Mar 05 16:43	30°Ŗ ℋ		retrograde	11924 Feb 08 22:32	17° ∺ 17'43	
min. Earth dist.	11923 Mar 08 09:31	27°) €06'08	0.66267 AU	evening set	11924 Feb 15 17:01	14°) 46′16	
asc. node	11923 Mar 08 21:54	26°) €29'48		min. Earth dist.	11924 Feb 19 13:48		0.64672 AU
inferior conj	11923 Mar 10 07:58	24°) 48′20	0°27'22	inferior conj	11924 Feb 21 23:52	8°) 35′46	
minimum elong	11923 Mar 10 07:15	24° ¥ 50′30	0°27'14	minimum elong	11924 Feb 22 00:56	8°) 32′52	0°34'48
morning rise	11923 Mar 16 07:29	19°) €08'34		asc. node	11924 Feb 23 19:17	6°) 41′15	
direct	11923 Mar 19 06:19	18° ∺ 20′10		morning rise	11924 Feb 28 10:38	3° ∺ 09'11	
morning max el	11923 Mar 25 17:05	21°) 45'33	18°18'29	direct	11924 Mar 02 00:37	2°) 34′33	
	11923 Apr 01 07:37	0° Y		morning max el	11924 Mar 08 09:44	5°) 53′44	17°53'50
desc. node	11923 Apr 11 06:37	15° Y 23′53			11924 Mar 24 16:02	0° Y	
morning set	11923 Apr 14 09:02	20° Y ′20′54		morning set	11924 Mar 25 18:23	1° Ƴ 49'49	
	11923 Apr 20 10:34	0° 8		desc. node	11924 Mar 28 03:14	5° Ƴ 46'18	
superior conj	11923 Apr 29 22:03	14° 8 54'45		superior conj	11924 Apr 08 13:20	24° Y °23′09	
minimum elong	11923 Apr 29 13:11	14° 8 20'04		minimum elong	11924 Apr 08 05:06	23° Y 50'13	1°18'41
max. Earth dist.	11923 May 01 01:37	_	1.45741 AU		11924 Apr 12 02:14	0° 8	
	11923 May 09 14:02	0°Щ		max. Earth dist.	11924 Apr 12 21:26		1.45317 AU
evening rise	11923 May 15 21:20	9° ∏ 51'14		evening rise	11924 Apr 24 12:22	19° 8 17'54	
greatest brilliancy	11923 May 26 11:51	26° Ⅱ 21'36	-0.8m		11924 May 01 12:53	0°II	
	11923 May 28 21:34	0°©		greatest brilliancy	11924 May 09 07:07	11° II 33'37	-0.6m
asc. node	11923 Jun 04 19:27	9° © 37'35		evening max el	11924 May 21 01:15	26° Ⅱ 47'49	19°56'14
evening max el	11923 Jun 07 20:09	13°502'50	19°03'13	asc. node	11924 May 21 16:36	27° Ⅱ 25'24	
retrograde	11923 Jun 14 16:15	16°\$50'23			11924 May 24 23:49	0.20	
evening set	11923 Jun 18 03:15	15°5541'04	2010107	retrograde	11924 May 28 14:35	1°506'41	
inferior conj	11923 Jun 23 14:52	9°555'06	3°10'07	evening set	11924 Jun 01 10:50	29° Ⅱ 41'01	
minimum elong	11923 Jun 23 15:52	9°951'52	3°09'13		11924 Jun 01 00:01	30°RⅡ 220Ⅲ41124	201.5100
min. Earth dist.	11923 Jun 25 05:08	7°552'46	0.66471 AU	inferior conj	11924 Jun 06 18:29	23° Ⅱ 41′24	
morning rise	11923 Jun 29 03:52	3°532'32		minimum elong	11924 Jun 06 18:23	23° Ⅱ 41'43	3°14'21
direct	11923 Jul 05 09:42	0°550'38		min. Earth dist.	11924 Jun 07 18:12	22° I I21'27	0.67707 AU
desc. node	11923 Jul 08 06:49	1°520'07	26016110	morning rise	11924 Jun 12 01:36	17° Ⅱ 20'33	
morning max el	11923 Jul 18 05:23	8°529'41	26°16'10	direct	11924 Jun 17 20:35	14° Ⅱ 46'45	
	11923 Aug 04 01:13	0° N		desc. node	11924 Jun 24 03:55	17° Ⅱ 07'30	24055126
	11923 Aug 22 03:53	0° Mp		morning max el	11924 Jun 29 15:25	21° Ⅱ 50'49	24°55'26
morning set	11923 Aug 23 04:44	1° Mp 55'08	1 2 4000 177		11924 Jul 06 17:47	0°©	
max. Earth dist.	11923 Aug 27 02:00	9° m 19'48	1.34900 AU		11924 Jul 27 07:28	0 ° Ω	

. ,	11024 4 04 12 42	120 0 50112			11025 1 1 01 01 54	000	
morning set	11924 Aug 04 12:43	13° Ω 58'13	1 2 (072 111	. ,	11925 Jul 01 01:54	0°95	
max. Earth dist.	11924 Aug 08 02:36	20° Ω 25'57	1.36973 AU	morning set	11925 Jul 16 23:14	25°902'06	
	11924 Aug 13 04:17	0° m			11925 Jul 19 21:11	0°N	
				max. Earth dist.	11925 Jul 21 00:08	1° Ω 56'49	1.39271 AU
superior conj	11924 Aug 14 18:20	3° Mp 05'10				0	
minimum elong	11924 Aug 14 20:08	3° Mp 14'00	0°27'39	superior conj	11925 Jul 28 15:09	15° Ω 41'19	
asc. node	11924 Aug 17 16:30	8° My 52′42		minimum elong	11925 Jul 28 19:30	16° Ω 01'32	1°01'35
evening rise	11924 Aug 23 02:31	19° m 47'52		asc. node	11925 Aug 04 13:13	28° Ω 51'59	
	11924 Aug 28 07:12	0∘ ত			11925 Aug 05 03:16	0° m)	
evening max el	11924 Sep 09 03:11	17° ≏ 44'42	19°32'15	evening rise	11925 Aug 06 23:26	3° m 34'03	
retrograde	11924 Sep 18 20:09	22° ≙ 34'56		evening max el	11925 Aug 23 02:27	29° m 43'10	18°42'11
desc. node	11924 Sep 20 01:15	22° ₽ 30'42			11925 Aug 23 09:20	0∘ ত	
evening set	11924 Sep 20 16:44	22° ₽ 25′05		retrograde	11925 Aug 31 07:43	3° ჲ 50'35	
inferior conj	11924 Sep 29 10:44	18° ≙ 19'48	-2°54'21	evening set	11925 Sep 02 06:19	3° ≗ 37'35	
minimum elong	11924 Sep 29 03:07	18° ≏ 31'56	2°51'23	desc. node	11925 Sep 06 22:40	1° ≏ 33'56	
min. Earth dist.	11924 Oct 01 19:25	16° ≏ 49'50	0.55476 AU		11925 Sep 09 06:00	30°R, Mp	
morning rise	11924 Oct 07 11:24	13° ≏ 54'26		inferior conj	11925 Sep 10 07:15	29° m 13'39	-1°03'11
direct	11924 Oct 12 13:00	12° ♀ 57'08		minimum elong	11925 Sep 10 04:40	29° m) 18'27	1°02'14
morning max el	11924 Oct 26 11:21	19° £ 55'20	25°03'18	min. Earth dist.	11925 Sep 13 10:46	26° m 54'25	0.57093 AU
	11924 Nov 04 01:01	0°M		morning rise	11925 Sep 17 23:38	24° m) 10'27	
asc. node	11924 Nov 13 17:45	15°M43'30		direct	11925 Sep 23 18:58	22° m/47'46	
use. noue	11924 Nov 20 21:43	0° ∡ 7		4.1.000	11925 Oct 07 19:43	0∘ ⊽	
morning set	11924 Nov 20 21:43	1° × 754'01		morning max el	11925 Oct 07 17:43 11925 Oct 08 01:52	0° - 0° - 214'42	26°34'42
morning set	11924 NOV 21 19.07	1 × 3401		morning max er		0 = 1442 0°M	20 34 42
	11024 N 20, 14-22	1.69.749110	1020147	4-	11925 Oct 28 23:12		
superior conj	11924 Nov 28 14:22	16° × 48'10	1°38'47	asc. node	11925 Oct 31 14:33	5°M00'41	
minimum elong	11924 Nov 28 14:05	16° ∡ 746′34	1°39'33	morning set	11925 Nov 06 05:25	16°M31'09	
max. Earth dist.	11924 Nov 30 07:17	20° ∡ ³32'27	1.32181 AU		11925 Nov 12 08:46	0° ∡ ¹	
	11924 Dec 04 17:22	0°ප					
evening rise	11924 Dec 05 19:59	2° る 17'51		superior conj	11925 Nov 13 01:36	1° ∡ ³33'47	
desc. node	11924 Dec 16 22:55	23° පි 16'00		minimum elong	11925 Nov 13 00:20	1° ∡ 26′42	1°34'57
	11924 Dec 21 01:07	0° ≈		max. Earth dist.	11925 Nov 13 14:40	2° ∡ ′46′29	1.31506 AU
evening max el	11925 Jan 07 20:10	22° ≈ 56′04	27°32'02	evening rise	11925 Nov 19 22:54	16° ∡ ³36'34	
	11925 Jan 19 04:27	0° ℋ			11925 Nov 26 15:06	0°₹	
retrograde	11925 Jan 21 15:38	0°) 16′42		desc. node	11925 Dec 03 19:57	12° る 41'44	
	11925 Jan 24 01:12	30° ₹ ≈			11925 Dec 16 02:51	0° ≈	
evening set	11925 Jan 28 14:47	27° ≈ 53'38		evening max el	11925 Dec 21 02:32	5° ≈ 17'46	27°11'23
min. Earth dist.	11925 Feb 01 08:43	24° ≈ 48'48	0.62779 AU	retrograde	11926 Jan 04 00:36	12° ≈ 31'12	
inferior conj	11925 Feb 04 05:08	22° ≈ 03'15	-1°47'44	evening set	11926 Jan 10 22:08	10° ≈ 25′01	
minimum elong	11925 Feb 04 08:44	21° ≈ 54'31	1°45'43	min. Earth dist.	11926 Jan 14 16:58	7° ≈ 41'15	0.60679 AU
asc. node	11925 Feb 09 16:35	17° ≈ 34'47		inferior conj	11926 Jan 17 20:21	5° ≈ 00'56	-3°06'09
morning rise	11925 Feb 11 05:06	16° ≈ 53'00		minimum elong	11926 Jan 18 02:48	4° ≈ 47'10	3°03'05
direct	11925 Feb 13 12:12	16° ≈ 28'28		morning rise	11926 Jan 25 10:19	0°≈10'18	
morning max el	11925 Feb 20 03:22	19° ≈ 51'38	17°46'41		11926 Jan 26 04:04	30°Ŗ ට	
morning man er	11925 Feb 27 16:38	0° ∀	17 10 11	direct	11926 Jan 27 13:06	29° ප් 52'18	
morning set	11925 Mar 08 04:27	14°) 29'45		asc. node	11926 Jan 27 13:51	29° る 52'18	
desc. node	11925 Mar 14 23:51	26°) 18'30		use. Houe	11926 Jan 28 21:44	0° ≈	
dese. Hode	11925 Mar 17 03:57	0° Υ		morning max el	11926 Feb 03 18:36	3° ≈ 29'29	17°57'57
	11)25 Wai 17 05.57	0 1		morning set	11926 Feb 19 08:47	28°≈00'22	17 37 37
superior conj	11925 Mar 20 02:07	4° Ƴ 54'11	-0°38'10	morning set	11926 Feb 19 08.47 11926 Feb 20 10:49	28 ≈ 00 22 0° ∺	
		4° Υ 38'09	0°37'43		11920160 20 10.49	0 /	
minimum elong	11925 Mar 19 22:16				11026 M 01 15 22	1.60 1/2.4127	0°01'36
max. Earth dist.	11925 Mar 26 15:17	15° Y 35'35	1.44198 AU	superior conj	11926 Mar 01 15:33	16°) 34'37	
evening rise	11925 Apr 04 00:31	28° Y 46′10		minimum elong	11926 Mar 01 15:42	16° ¥ 35'16	0°01'50
	11925 Apr 04 19:42	0°8		behind sun begin	11926 Mar 01 07:41	16°) €00'08	
	11925 Apr 25 07:35	0°II		behind sun end	11926 Mar 01 23:43	17° ∺ 10′19	
evening max el	11925 May 04 00:32	10° Ⅱ 33'28	21°02'47	desc. node	11926 Mar 01 20:28	16° ¥ 56′08	
asc. node	11925 May 08 13:47	14° Ⅱ 17'22		max. Earth dist.	11926 Mar 09 04:44	29° ¥ 25′18	1.42498 AU
retrograde	11925 May 12 13:18	15° Ⅱ 32'21			11926 Mar 09 13:09	0° Υ	
evening set	11925 May 16 19:37	13° Ⅱ 50′28		evening rise	11926 Mar 15 00:21	8° Υ 50'28	
inferior conj	11925 May 22 01:56	7° Ⅱ 38'49	3°08'14		11926 Mar 28 22:55	0°8	
minimum elong	11925 May 22 00:53	7° Ⅱ 42'29	3°07'25	evening max el	11926 Apr 16 18:39	24° 8 19'56	22°19'05
min. Earth dist.	11925 May 22 11:55	7° Ⅱ 04'10	0.68475 AU	asc. node	11926 Apr 25 11:02	29° 8 57'52	
morning rise	11925 May 27 05:57	1° Ⅲ 22′00			11926 Apr 25 17:22	$\Pi^{\circ}0$	
	11925 May 29 02:44	30° ₹ 8		retrograde	11926 Apr 26 10:45	0° Ⅱ 02'30	
direct	11925 Jun 01 12:15	29° 8 03'26			11926 Apr 27 03:49	30° ₹ 8	
	11925 Jun 05 04:57	$\Pi^{\circ}0$		evening set	11926 May 01 03:53	28° 8 05'17	
desc. node	11925 Jun 11 00:57	4° Ⅱ 20′13		inferior conj	11926 May 06 11:09	21° 8 43'53	2°50'45
morning max el	11925 Jun 12 01:28	5° Ⅱ 20'25	23°26'21	minimum elong	11926 May 06 09:23	21° 8 50'03	2°49'51
				=			

min. Earth dist.	11926 May 06 08:14		0.68774 AU	morning rise	11927 Apr 26 02:01	29° Υ '48'26	
morning rise	11926 May 11 14:44	15° 8 32'37		direct	11927 Apr 30 06:06	28° Y 10'31	
direct	11926 May 16 07:48	13° 8 33'31	21050106		11927 May 05 02:19	0°8	20020107
morning max el	11926 May 25 14:11	18° 8 58'39	21°58'06	morning max el	11927 May 08 08:35	2° 8 47'21	20°38'06
desc. node	11926 May 28 21:53	22° 8 35'32 0° Ⅱ		desc. node	11927 May 15 18:44	11° 8 36′10 0° Ⅱ	
	11926 Jun 03 19:10 11926 Jun 24 05:19	0ം © 0∘п		morning set	11927 May 28 15:33 11927 Jun 06 17:38	0°Щ 13°Щ50'54	
morning set	11926 Jun 27 08:20	0 99 4°957'47		morning set max. Earth dist.	11927 Jun 15 07:12	27° I I23'18	1.43485 AU
max. Earth dist.	11926 Jul 03 00:35	14° © 14'22	1.41529 AU	max. Earth dist.	11927 Jun 15 07:12 11927 Jun 16 21:55	0°95	1.43463 AU
max. Earth dist.	11920 Jul 03 00.33	14 301422	1.41329 AU		11927 Juli 10 21.33	0 39	
superior conj	11926 Jul 10 17:40	27° © 26'58	-1°34'18	superior conj	11927 Jun 21 21:37	8° © 12'52	-2°00'21
minimum elong	11926 Jul 11 00:08	27° © 55'29		minimum elong	11927 Jun 22 03:51	8°938'51	2°00'44
minimum ciong	11926 Jul 12 04:15	0°Ω	1 3 1 1 7	evening rise	11927 Jul 04 03:46	29° © 18'57	2 00 11
evening rise	11926 Jul 21 09:23	16° Ω 48'27		evening rise	11927 Jul 04 13:05	0°Ω	
asc. node	11926 Jul 22 09:59	18°Ω42'07		asc. node	11927 Jul 09 06:50	8° Ω 17'58	
	11926 Jul 28 16:37	0° m)		evening max el	11927 Jul 20 23:31	25° Ω 27'11	18°03'41
evening max el	11926 Aug 06 10:36	12° m 20'57	18°13'07	retrograde	11927 Jul 27 12:26	28° Ω 49'24	
retrograde	11926 Aug 13 14:12	15° m) 58'27		evening set	11927 Jul 30 01:57	28° Ω 17'54	
evening set	11926 Aug 15 19:37	15° mp 37'59		inferior conj	11927 Aug 05 15:17	23° Ω 14'02	1°43'46
inferior conj	11926 Aug 23 01:38	10° m 53'38	0°32'11	minimum elong	11927 Aug 05 17:49	23° Ω 07'42	1°42'25
minimum elong	11926 Aug 23 02:42	10° m 51'20	0°31'27	min. Earth dist.	11927 Aug 08 16:52	20° Ω 11'43	0.61488 AU
desc. node	11926 Aug 24 20:05	9° m 21'02		desc. node	11927 Aug 11 17:29	17° Ω 36'47	
min. Earth dist.	11926 Aug 26 09:31	8°10001'38	0.59203 AU	morning rise	11927 Aug 12 07:08	17° Ω 12'33	
morning rise	11926 Aug 30 06:22	5° Mp 16'13		direct	11927 Aug 18 22:58	14° Ω 55'15	
direct	11926 Sep 05 15:07	3° TD 24'43		morning max el	11927 Sep 02 04:00	22° Q 55′11	27°57'45
morning max el	11926 Sep 19 23:40	11° m y 12'44	27°35'13		11927 Sep 08 10:58	0° m	
	11926 Oct 04 15:35	0∘ ⊽			11927 Sep 27 21:03	0∘ ⊽	
asc. node	11926 Oct 18 11:18	24° ≏ 38'19		asc. node	11927 Oct 05 08:01	14° ≏ 29'45	
	11926 Oct 21 01:51	0° M		morning set	11927 Oct 05 14:28	15° ჲ 02'56	
morning set	11926 Oct 21 12:31	0°M56'02		max. Earth dist.	11927 Oct 11 06:15	27° ≏ 06′10	1.31666 AU
max. Earth dist.	11926 Oct 27 23:35	15°M01'08	1.31333 AU				
				superior conj	11927 Oct 12 23:30	0°M52'53	1°08'39
superior conj	11926 Oct 28 13:16	16° ™ 17'18	1°24'16	minimum elong	11927 Oct 12 21:15	0° M 40′27	1°08'40
minimum elong	11926 Oct 28 11:18	16°M06'21	1°24'35		11927 Oct 12 13:55	0° M	
	11926 Nov 03 18:18	0° ∡ ″		evening rise	11927 Oct 19 17:07	15° M 41'15	
evening rise	11926 Nov 04 06:38	1° ∡ '06'19			11927 Oct 26 17:18	0° ∡ 7	
	11926 Nov 19 18:05	0° ろ		desc. node	11927 Nov 07 14:20	19° ∡ 20'39	
desc. node	11926 Nov 20 17:06	1°る28'19		evening max el	11927 Nov 14 16:44	27° ∡ ⁷ 30′29	24°52'27
evening max el	11926 Dec 03 01:39		26°16'28		11927 Nov 17 13:38	0°る	
retrograde	11926 Dec 17 00:08	23°る54'09 22°る13'49		retrograde	11927 Nov 28 12:02	4°る25'16 3°る16'50	
evening set	11926 Dec 23 10:58 11926 Dec 27 14:59		0.50544.411	evening set	11927 Dec 04 00:52		0.56621 AU
min. Earth dist.	11926 Dec 27 14:59 11926 Dec 30 17:59	19° ろ 38°12	0.58544 AU	min. Earth dist.	11927 Dec 09 04:36 11927 Dec 10 00:51	0° € 32′16	0.50021 AU
inferior conj minimum elong	11926 Dec 30 17.39 11926 Dec 31 02:20	17 3 1924 17° 3 03'55		inferior conj	11927 Dec 10 00.31 11927 Dec 11 19:26	30 Kx. 28° ₹ 50'55	5025152
morning rise	11920 Dec 31 02:20 11927 Jan 07 20:30	17 3 0333	4 20 20	minimum elong	11927 Dec 11 19:20 11927 Dec 12 02:12	28° х 30 33	
direct	11927 Jan 09 23:01	12° る 35'41		morning rise	11927 Dec 12 02:12 11927 Dec 20 05:42	24° × ³ 743'42	3 24 00
asc. node	11927 Jan 14 11:04	13°る48'13		direct	11927 Dec 20 03:42 11927 Dec 22 14:28	24°×728'01	
morning max el	11927 Jan 18 03:42	16° る 36'47	18°29'08	morning max el	11928 Jan 01 02:40	29°×7'02'25	19°22'10
	11927 Jan 27 14:14	0° ≈		asc. node	11928 Jan 01 08:14	29° х 16′00	
morning set	11927 Feb 03 01:55	12° ≈ 05'27			11928 Jan 02 01:28	0°ಕ	
C				morning set	11928 Jan 18 03:47	26° පි 33'16	
superior conj	11927 Feb 12 02:32	29° ≈ 14'43	0°35'45	Č	11928 Jan 19 21:04	0° ≈	
minimum elong	11927 Feb 12 04:53	29° ≈ 25'36	0°35'51				
	11927 Feb 12 12:20	0°) €		superior conj	11928 Jan 26 06:20	12° ≈ 41'18	1°02'28
desc. node	11927 Feb 16 17:06	7°) €35'32		minimum elong	11928 Jan 26 09:16	12° ≈ 55'34	1°02'43
max. Earth dist.	11927 Feb 19 13:17	12°) €33'51	1.40414 AU	max. Earth dist.	11928 Feb 01 19:30	25° ≈ 02'35	1.38186 AU
evening rise	11927 Feb 23 20:10	19°) 49'04		desc. node	11928 Feb 03 13:48	28° ≈ 13′26	
	11927 Mar 02 03:41	0° Y			11928 Feb 04 13:47	0° ∀	
	11927 Mar 23 05:16	0° 8		evening rise	11928 Feb 05 13:17	1°) 43′14	
evening max el	11927 Mar 30 09:27	8° 8 08'49	23°39'43		11928 Feb 23 08:35	0° Υ	
retrograde	11927 Apr 10 05:26	14° 8 31'47		evening max el	11928 Mar 11 23:07	22° Y '00'50	24°58'10
asc. node	11927 Apr 12 08:21	14° 8 10'52		retrograde	11928 Mar 23 20:08	28° Y 55′10	
evening set	11927 Apr 15 10:05	12° 8 20'52		asc. node	11928 Mar 29 05:43	26° Y 47'21	
min. Earth dist.	11927 Apr 20 04:56	6° 8 45'13	0.68622 AU	evening set	11928 Mar 29 12:40	26° Y 32'56	0.0000= :=:
inferior conj	11927 Apr 20 20:12	5° 8 52'55		min. Earth dist.	11928 Apr 02 23:50	21° Y 32'46	0.68037 AU
minimum elong	11927 Apr 20 18:03	6° 8 00'15	2°22'23	inferior conj	11928 Apr 04 03:12	20° Y ′02'40	1°46'12
	11927 Apr 25 20:18	30° ₹Ƴ		minimum elong	11928 Apr 04 01:08	20° Y ′09′27	1°45'19

morning rise	11928 Apr 09 13:52	14° Ƴ ′06′22		minimum elong	11929 Mar 19 04:43	4° Υ 12'01	0°58'34
direct	11928 Apr 13 05:46	12° Y '49'17			11929 Mar 22 21:42	30°₽ , ₩	
morning max el	11928 Apr 20 10:35	16° Ƴ 48'02	19°31'22	morning rise	11929 Mar 25 00:14	28° ∺ 21′20	
	11928 Apr 30 20:05	0° 8		direct	11929 Mar 28 05:00	27° ∺ 23'13	
desc. node	11928 May 01 15:31	1° 8 10'11			11929 Apr 02 19:19	0° Y	
greatest brilliancy	11928 May 03 03:13	3° 8 20'39	-0.7m	morning max el	11929 Apr 03 19:57	0° Y 56'50	18°40'19
morning set	11928 May 15 17:44	22° 8 25'04		desc. node	11929 Apr 18 12:11	21° Y 07'51	
	11928 May 20 15:30	Π °0			11929 Apr 24 04:40	9° 8	
max. Earth dist.	11928 May 27 20:48	11° Ⅱ 18′04	1.44916 AU	morning set	11929 Apr 25 07:14	1° 8 44'00	
				max. Earth dist.	11929 May 10 15:16	25° 8 42'15	1.45658 AU
superior conj	11928 Jun 01 01:48	17° Ⅱ 59'21					
minimum elong	11928 Jun 01 03:12	18° Ⅱ 04'55	2°13'47	superior conj	11929 May 11 12:13	27° 8 04'11	
	11928 Jun 08 11:42	0 \circ		minimum elong	11929 May 11 06:04	26° 8 40'09	2°06'52
evening rise	11928 Jun 15 01:40	10° © 55'12			11929 May 13 09:07	0∘Щ	
asc. node	11928 Jun 25 03:46	27° © 34'19		evening rise	11929 May 26 23:32	21° Ⅲ 31′08	
	11928 Jun 26 17:24	0° Ω	10010110		11929 Jun 01 06:54	0°95	0.0
evening max el	11928 Jul 03 13:36	8° Ω 53'01	18°12'49	greatest brilliancy	11929 Jun 03 07:57	3°514'55	-0.9m
retrograde	11928 Jul 09 22:06	12° Ω 14′28		asc. node	11929 Jun 12 00:48	16°9524'02	10020152
evening set	11928 Jul 12 19:51	11° Ω 29'18	2022100	evening max el	11929 Jun 17 01:51	22°530'41	18°39'52
inferior conj	11928 Jul 18 20:14	6° Ω 07'35 6° Ω 00'39		retrograde	11929 Jun 23 15:16	26°505'06 25°504'45	
minimum elong	11928 Jul 18 22:42 11928 Jul 21 09:32	3°Ω16'35	0.63674 AU	evening set	11929 Jun 26 21:20		3°00'57
min. Earth dist.	11928 Jul 21 09:32 11928 Jul 24 23:59	29° © 52'08	0.030/4 AU	inferior conj minimum elong	11929 Jul 02 12:34 11929 Jul 02 14:12	19° © 26'58 19° © 21'56	2°59'56
morning rise	11928 Jul 24 25.39 11928 Jul 24 19:59	29 932 08 30°R9		min. Earth dist.	11929 Jul 02 14.12 11929 Jul 04 11:16	19 3 21 30	0.65561 AU
desc. node	11928 Jul 24 19:59 11928 Jul 28 14:50	30 k≥ 27°9548'57		morning rise	11929 Jul 04 11:10 11929 Jul 08 06:13	17 505 49 13°505'19	0.03301 AU
direct	11928 Jul 31 16:02	27° © 17'21		direct	11929 Jul 14 16:53	10°S23'22	
direct	11928 Aug 08 06:00	2/ 3 1/21 0° Ω		desc. node	11929 Jul 15 12:05	10°S25'38	
morning max el	11928 Aug 14 12:52	5° Ω 18'53	27°42'31	morning max el	11929 Jul 27 23:48	18°9514'40	26°55'01
morning max cr	11928 Sep 02 05:47	0° m)	27 4231	morning max cr	11929 Aug 06 21:10	0°Ω	20 33 01
morning set	11928 Sep 18 08:56	28° m/45'52			11929 Aug 26 04:52	0° m)	
morning sec	11928 Sep 18 23:44	0∘ ⊽		morning set	11929 Sep 01 17:05	11° m) 58'03	
asc. node	11928 Sep 21 04:42	4° £ 30'04		max. Earth dist.	11929 Sep 05 22:42	20° m 17'17	1.33890 AU
max. Earth dist.	11928 Sep 23 07:00	8° ≏ 52'58	1.32520 AU	asc. node	11929 Sep 08 01:23	24° m/35'14	
	•				•	•	
superior conj	11928 Sep 26 06:21	150 0 1420	0°47'42		11020 0 10 07 26	200 m 16156	0°21'45
superior conj	11928 Sep 20 00.21	15° ≏ 14'39	0-4/42	superior conj	11929 Sep 10 07:36	29°M) 16'56	0 21 43
minimum elong	11928 Sep 26 04:21	15° 2 •14 39 15° 2 •03'48	0°47'42 0°47'29	minimum elong	11929 Sep 10 07:36 11929 Sep 10 06:30	29° m, 11'08	0°21'26
	-			1 3	•		
minimum elong	11928 Sep 26 04:21	15° ≏ 03'48		1 3	11929 Sep 10 06:30	29° m 11'08	
minimum elong	11928 Sep 26 04:21 11928 Oct 03 04:27	15° £ 03'48 0° I L15'59		minimum elong	11929 Sep 10 06:30 11929 Sep 10 15:49	29° ™ 11'08 0° ≏	
minimum elong	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28	15° Ω 03'48 0° M .15'59 0° M . 0° ⊀ ' 5° ⊀ '57'45		minimum elong evening rise evening max el	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m 48'33	0°21'26
minimum elong evening rise	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58	15° £ 03'48 0° M .15'59 0° M . 0° ⊀ ' 5° ⊀ '57'45		minimum elong evening rise	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23	29° m 11'08 0° Ω 14° Ω 45'31 0° M	0°21'26
minimum elong evening rise desc. node evening max el retrograde	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38	15° Ω 03'48 0° M .15'59 0° M . 0° ⊀ ' 5° ⊀ '57'45	0°47'29	minimum elong evening rise evening max el	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29	29° M 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° M 17° M 48'33 20° M 53'21 23° M 54'18	0°21'26
minimum elong evening rise desc. node evening max el retrograde evening set	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38 11928 Oct 26 03:08 11928 Nov 08 10:43 11928 Nov 12 15:19	15° 2 03'48 0° M .15'59 0° M . 0° 3 5° 3 57'45 7° 3 38'43 14° 3 16'18 13° 3 38'10	0°47'29 23°12'27	minimum elong evening rise evening max el desc. node retrograde evening set	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29 11929 Oct 11 09:00 11929 Oct 19 23:43 11929 Oct 22 19:13	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m 48'33 20° m 53'21 23° m 54'18 23° m 36'15	0°21'26 21°34'04
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38 11928 Oct 26 03:08 11928 Nov 08 10:43 11928 Nov 12 15:19 11928 Nov 19 12:38	15° 2 03'48 0° M .15'59 0° M . 0° X ' 5° X '57'45 7° X '38'43 14° X '16'18 13° X '38'10 10° X '26'14	0°47'29 23°12'27 0.55209 AU	evening rise evening max el desc. node retrograde evening set inferior conj	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29 11929 Oct 11 09:00 11929 Oct 19 23:43 11929 Oct 22 19:13 11929 Oct 31 18:20	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m 48'33 20° m 53'21 23° m 54'18 23° m 36'15 19° m 40'54	0°21'26 21°34'04 -5°21'16
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38 11928 Oct 26 03:08 11928 Nov 08 10:43 11928 Nov 12 15:19 11928 Nov 19 12:38 11928 Nov 21 01:11	15° △ 03'48 0° M .15'59 0° M . 0° √ 5° √ 357'45 7° √ 38'43 14° √ 16'18 13° √ 38'10 10° √ 26'14 9° √ 33'21	0°47'29 23°12'27 0.55209 AU -5°51'32	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29 11929 Oct 11 09:00 11929 Oct 19 23:43 11929 Oct 22 19:13 11929 Oct 31 18:20 11929 Oct 31 10:14	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m 48'33 20° m 53'21 23° m 54'18 23° m 36'15 19° m 40'54 19° m 52'14	0°21'26 21°34'04 -5°21'16 5°19'16
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38 11928 Oct 26 03:08 11928 Nov 08 10:43 11928 Nov 12 15:19 11928 Nov 19 12:38 11928 Nov 21 01:11 11928 Nov 21 01:03	15° ♣03'48 0° № 15'59 0° № 0° ৵ 5° ৵ 57'45 7° ৵ 38'43 14° ৵ 16'18 13° ৵ 38'10 10° ৵ 26'14 9° ৵ 33'21 9° ৵ 33'32	0°47'29 23°12'27 0.55209 AU -5°51'32	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29 11929 Oct 11 09:00 11929 Oct 19 23:43 11929 Oct 31 18:20 11929 Oct 31 10:14 11929 Oct 31 19:07	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m 48'33 20° m 53'21 23° m 54'18 23° m 36'15 19° m 40'54 19° m 49'48	0°21'26 21°34'04 -5°21'16
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minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38 11928 Oct 26 03:08 11928 Nov 08 10:43 11928 Nov 12 15:19 11928 Nov 19 12:38 11928 Nov 21 01:11 11928 Nov 21 01:03 11928 Nov 29 12:25 11928 Dec 02 11:17	15° \$\infty\$03'48 0° \$\mathbb{M}\$.15'59 0° \$\mathbb{M}\$. 0° \$\mathscr{A}\$ 5° \$\mathscr{A}\$57'45 7° \$\mathscr{A}\$38'43 14° \$\mathscr{A}\$16'18 13° \$\mathscr{A}\$38'10 10° \$\mathscr{A}\$26'14 9° \$\mathscr{A}\$33'21 9° \$\mathscr{A}\$33'32 5° \$\mathscr{A}\$42'46 5° \$\mathscr{A}\$22'00	0°47'29 23°12'27 0.55209 AU -5°51'32 5°50'47	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29 11929 Oct 11 09:00 11929 Oct 19 23:43 11929 Oct 22 19:13 11929 Oct 31 18:20 11929 Oct 31 10:14 11929 Oct 31 19:07 11929 Nov 09 02:16 11929 Nov 12 20:01	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m.48'33 20° m.53'21 23° m.36'15 19° m.40'54 19° m.52'14 19° m.39'48 15° m.52'40 15° m.22'22	0°21'26 21°34'04 -5°21'16 5°19'16 0.54574 AU
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minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11928 Sep 26 04:21 11928 Oct 03 04:27 11928 Oct 03 01:28 11928 Oct 19 14:58 11928 Oct 24 11:38 11928 Oct 26 03:08 11928 Nov 08 10:43 11928 Nov 12 15:19 11928 Nov 19 12:38 11928 Nov 21 01:11 11928 Nov 21 01:03 11928 Nov 29 12:25 11928 Dec 02 11:17 11928 Dec 13 12:10 11928 Dec 18 05:20	15° №03'48 0° № 15'59 0° № 5° № 57'45 7° № 38'43 14° № 16'18 13° № 38'10 10° № 26'14 9° № 33'21 9° № 33'32 5° № 42'46 5° № 22'00 10° № 36'35 15° № 59'43	0°47'29 23°12'27 0.55209 AU -5°51'32 5°50'47	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11929 Sep 10 06:30 11929 Sep 10 15:49 11929 Sep 17 14:47 11929 Sep 25 06:23 11929 Oct 07 17:29 11929 Oct 11 09:00 11929 Oct 19 23:43 11929 Oct 22 19:13 11929 Oct 31 18:20 11929 Oct 31 10:14 11929 Oct 31 19:07 11929 Nov 09 02:16 11929 Nov 12 20:01 11929 Nov 25 08:11 11929 Dec 02 15:08	29° m 11'08 0° <u>a</u> 14° <u>a</u> 45'31 0° m 17° m 48'33 20° m 53'21 23° m 54'18 23° m 36'15 19° m 40'54 19° m 52'14 19° m 39'48 15° m 52'40 15° m 22'22 21° m 20'11 0° x '	0°21'26 21°34'04 -5°21'16 5°19'16 0.54574 AU
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evening max el	11932 Jan 01 00:10	15° ≈ 37'32	27°27'34		11932 Dec 15 20:10	0° ≈	
retrograde	11932 Jan 14 21:31	22°≈55'55	27 27 3 1	retrograde	11932 Dec 13 20:10 11932 Dec 27 02:33	4° ≈ 49'10	
evening set	11932 Jan 21 20:39	20°≈39'06		evening set	11933 Jan 02 20:42	2°≈53'24	
min. Earth dist.	11932 Jan 25 14:20	17°≈44'10	0.61892 AU	min. Earth dist.	11933 Jan 06 18:19	0°≈14'44	0.59759 AU
inferior conj	11932 Jan 28 14:14	17 ≈44 10 14°≈58'56		iiiii. Latui dist.	11933 Jan 07 01:54	0 ∞1444 30°Rる	0.39739 AU
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Č			2 18 03	inferior conj		27° る 41'31	
morning rise	11932 Feb 04 20:10	9°≈56'34		minimum elong	11933 Jan 10 05:59		3-30-30
asc. node	11932 Feb 04 19:07	9°≈57'24		morning rise	11933 Jan 17 18:05	22° る 59'57	
direct	11932 Feb 07 00:53	9° ≈ 35'21	150 10100	direct	11933 Jan 19 20:13	22°る43'36	
morning max el	11932 Feb 13 21:20		17°49'09	asc. node	11933 Jan 21 16:23	22°る56'50	
	11932 Feb 25 09:52	0°) {		morning max el	11933 Jan 27 10:24	26° ♂ 29'57	18°08'40
morning set	11932 Feb 29 15:21	7° ¥ 30′15			11933 Jan 30 11:34	0° ≈	
desc. node	11932 Mar 09 02:01	22°) 24'45		morning set	11933 Feb 12 01:48	21° ≈ 17'59	
					11933 Feb 16 17:32	0° ∀	
superior conj	11932 Mar 11 19:28	27° ∺ 05'08					
minimum elong	11932 Mar 11 17:30	26° ¥ 56'46	0°20'28	superior conj	11933 Feb 21 18:39	9° ∺ 12'39	
	11932 Mar 13 12:53	0° Y		minimum elong	11933 Feb 21 19:58	9° ∺ 18'33	0°17'04
max. Earth dist.	11932 Mar 18 21:57	8° Ƴ 52'34	1.43534 AU	desc. node	11933 Feb 23 22:40	13°) €03'42	
evening rise	11932 Mar 26 02:39	20° Ƴ 18'17		max. Earth dist.	11933 Mar 01 09:40	22° 升 27′22	1.41651 AU
	11932 Apr 01 10:32	9° 8			11933 Mar 05 23:21	0 ° Υ	
	11932 Apr 22 23:19	$\Pi^{\circ}0$		evening rise	11933 Mar 06 10:35	0° Ƴ 45'28	
evening max el	11932 Apr 26 09:29	3° Ⅱ 45'45	21°34'23		11933 Mar 25 21:42	0°8	
asc. node	11932 May 02 16:17	8° Ⅲ 27'48		evening max el	11933 Apr 09 02:08	17° 8 33'59	22°53'09
retrograde	11932 May 05 09:39	9° Ⅱ 03'01		retrograde	11933 Apr 19 05:58	23° 8 33'42	
evening set	11932 May 09 20:26	7° Ⅱ 14'41		asc. node	11933 Apr 19 13:35	23° 8 33'14	
inferior conj	11932 May 15 02:55	0° Ⅱ 58'47	3°02'03	evening set	11933 Apr 24 04:01	21° 8 30'25	
minimum elong	11932 May 15 01:32	1° Ⅱ 03'39	3°01'12	min. Earth dist.	11933 Apr 29 04:06	15° 8 34'30	0.68775 AU
min. Earth dist.	11932 May 15 07:25	0° I I43'07	0.68663 AU	inferior conj	11933 Apr 29 12:19	15° 8 06'02	
	11932 May 15 19:49	30°R ∀		minimum elong	11933 Apr 29 10:20	15° 8 12'53	2°39'23
morning rise	11932 May 20 06:25	24° 8 44'04		morning rise	11933 May 04 16:33	8° 8 57'40	
direct	11932 May 25 07:12	22° 8 33'07		direct	11933 May 09 04:08	7° 8 07'22	
morning max el	11932 Jun 04 07:02	28° 8 28'03	22°48'05	morning max el	11933 May 17 21:47	12° 8 10'20	21°22'39
desc. node	11932 Jun 05 03:18	29° 8 20'11	22 10 05	desc. node	11933 May 27 21:17	17° 8 56'30	21 22 37
dese. Hode	11932 Jun 05 18:15	0° Ⅱ		desc. node	11933 May 31 23:10	0°Ⅱ	
	11932 Jun 27 20:45	0°©		morning set	11933 Jun 18 08:42	26° Ⅱ 10'53	
morning set	11932 Jul 08 10:33	16°9544'35		morning set	11933 Jun 20 18:25	0°95	
•	11932 Jul 08 10.33	24°\$22'50	1 40250 ATT	E4l- 4i-4			1 42425 ATT
max. Earth dist.			1.40258 AU	max. Earth dist.	11933 Jun 25 03:17	7° © 04'34	1.42425 AU
	11932 Jul 16 05:53	0 ° Ω			11022 1 1 02 12 40	100620102	1046122
	11022 1 1 20 10 25	00.00040	1015150	superior conj	11933 Jul 02 12:48	19°530'02	
superior conj	11932 Jul 20 19:25	8° Ω 08'49		minimum elong	11933 Jul 02 19:37	19° © 59'21	1°46'39
minimum elong	11932 Jul 21 00:47	8° Ω 33'18	1°15'51		11933 Jul 08 12:35	0° N	
asc. node	11932 Jul 29 15:29	24° Ω 39'36		evening rise	11933 Jul 13 20:05	9° Ω 33'59	
evening rise	11932 Jul 30 16:09	26° Ω 36'48		asc. node	11933 Jul 16 12:18	14° Ω 24'15	
	11932 Aug 01 11:02	0° m)			11933 Jul 25 20:22	0° ™	
evening max el	11932 Aug 15 16:03	22° m 22'13	18°27'23	evening max el	11933 Jul 30 02:41	5° mg 13'01	18°06'42
retrograde	11932 Aug 23 08:46	26° Mp 14'39		retrograde	11933 Aug 05 22:36	8° Mp 42'12	
evening set	11932 Aug 25 10:10	25° m 58'50		evening set	11933 Aug 08 07:30	8° m)17'18	
desc. node	11932 Sep 01 01:13	22° Mp 16'42		inferior conj	11933 Aug 15 05:58	3° Mg 24′04	1°05'36
inferior conj	11932 Sep 02 02:57	21°Mp26'18	-0°20'00	minimum elong	11933 Aug 15 07:53	3° m 19'36	1°04'29
minimum elong	11932 Sep 02 02:11	21° m 27'50	0°19'53	min. Earth dist.	11933 Aug 18 12:02	0°m/25'10	0.60174 AU
min. Earth dist.	11932 Sep 05 10:01	18° m 50'41	0.57955 AU	desc. node	11933 Aug 18 22:39	0° Mg 02'14	
morning rise	11932 Sep 09 14:43	16°M) 07′56			11933 Aug 18 23:41	30° R Ω	
direct	11932 Sep 15 16:45	14° m 32'52		morning rise	11933 Aug 22 05:16	27° Ω 35'14	
morning max el	11932 Sep 30 00:33	22° m 09'13	27°04'50	direct	11933 Aug 28 17:48	25° Ω 32'22	
	11932 Oct 06 22:57	0∘ ⊽			11933 Sep 08 04:52	0° m ∕	
	11932 Oct 25 08:50	0° M ₊		morning max el	11933 Sep 12 01:20	3° m 25'44	27°49'43
asc. node	11932 Oct 25 16:51	0° M ₊39'35			11933 Oct 01 14:27	0∘ ত	
morning set	11932 Oct 30 06:05	10°ML01'29		asc. node	11933 Oct 12 13:34	20° ჲ 23'37	
-				morning set	11933 Oct 14 11:14	24° ≏ 19'10	
superior conj	11932 Nov 06 03:48	25°ML11'14	1°30'46	Č	11933 Oct 17 03:21	0° M	
minimum elong	11932 Nov 06 02:11	25°ML02'15		max. Earth dist.	11933 Oct 20 13:56	7°M32'14	1.31413 AU
max. Earth dist.	11932 Nov 06 05:17	25°M19'31	1.31371 AU				
	11932 Nov 08 07:39	0° ⊼ ¹		superior conj	11933 Oct 21 15:03	9° ™ 51'38	1°18'18
evening rise	11932 Nov 12 22:54	10° ∡ 106'34		minimum elong	11933 Oct 21 12:54	9°M39'42	1°18'29
	11932 Nov 23 02:35	0° 궁		evening rise	11933 Oct 28 08:02	24°M39'04	
	11/02/11/07 20 02.00			5,011115 1150			
desc. node	11932 Nov 27 22:21	8° ろ 06'39			11933 Oct 30 20:41	0° ∡ ″	

desc. node	11933 Nov 14 19:33	26° ∡ ³32'15		desc. node	11934 Nov 01 16:48	13° ∡ 55'24	
acco. noue	11933 Nov 17 07:16	0°중		evening max el	11934 Nov 06 11:43	19° × 711'38	24°10'44
evening max el	11933 Nov 24 23:42	8° ට 48'53	25°43'43	retrograde	11934 Nov 20 03:29	26° х ⁷ 01'12	
retrograde	11933 Dec 08 20:59	15° る 49'29		evening set	11934 Nov 25 03:40	25° х 06'07	
evening set	11933 Dec 15 00:12	14° ට 22'08		min. Earth dist.	11934 Nov 30 22:44	22° ∡ 12'07	0.55940 AU
min. Earth dist.	11933 Dec 19 12:07	11° る 45'19	0.57685 AU	inferior conj	11934 Dec 03 04:19	20° ∡ 50′04	-5°42'39
inferior conj	11933 Dec 22 11:44	9° ට 40'45	-4°53'00	minimum elong	11934 Dec 03 08:45	20° ∡ ¹43'15	5°41'26
minimum elong	11933 Dec 22 20:00	9° පි 26'20	4°50'14	morning rise	11934 Dec 11 15:53	16° ∡ ′51′24	
morning rise	11933 Dec 30 18:19	5° る 21'28		direct	11934 Dec 14 05:37	16° ∡ ³34'14	
direct	11934 Jan 01 22:46	5° ට 06'35		morning max el	11934 Dec 24 09:12	21° ∡ °24'45	19°51'48
asc. node	11934 Jan 08 13:35	7° る 33'04		asc. node	11934 Dec 26 10:43	23° ∡ ³34'47	
morning max el	11934 Jan 10 15:38	9° ට 20'20	18°48'58		11934 Dec 31 05:15	ರ°0	
	11934 Jan 24 02:10	0° ≈		morning set	11935 Jan 11 03:34	20° る 07'19	
morning set	11934 Jan 26 23:05	5° ≈ 33'47			11935 Jan 16 00:02	0° ≈	
	11024 E-b 04 12:21	2200 012157	0949100	:	11025 I 10 22.52	590055145	1011120
superior conj	11934 Feb 04 13:21	22°≈13'57 22°≈27'00	0°48'00 0°48'09	superior conj	11935 Jan 18 22:52 11935 Jan 19 01:42	5°≈55'45 6°≈09'48	1°11'29 1°11'50
minimum elong	11934 Feb 04 16:07 11934 Feb 08 17:51	22 ≈ 2700	0 48 09	minimum elong max. Earth dist.	11935 Jan 19 01.42 11935 Jan 24 23:18	0 ≈0948 17°≈32'34	1.37249 AU
desc. node	11934 Feb 08 17:51 11934 Feb 10 19:19	3° ∺ 42'36			11935 Jan 24 25:18 11935 Jan 28 16:53	17°≈32'34 24°≈21'55	1.37249 AU
max. Earth dist.	11934 Feb 10 19.19 11934 Feb 11 17:11	5° X 19'29	1.39470 AU	evening rise desc. node	11935 Jan 28 16:01	24 ≈21 33 24°≈18'03	
evening rise	11934 Feb 11 17:11 11934 Feb 15 15:32	12° ∺ 07′29	1.39470 AU	desc. Hode	11935 Jan 31 21:58	0° \	
evening rise	11934 Feb 26 18:31	0° Υ			11935 Feb 20 10:31	0°Υ	
	11934 Mar 21 07:22	0°B		evening max el	11935 Mar 05 05:28	15° Υ 14'28	25°29'10
evening max el	11934 Mar 22 16:11	1° 8 23'56	24°13'41	retrograde	11935 Mar 17 11:54	22° Y 19'39	23 29 10
retrograde	11934 Apr 02 23:04	8° 8 01'22	24 1341	evening set	11935 Mar 23 09:28	19° Υ 53'17	
asc. node	11934 Apr 06 10:56	7° 8 05'42		asc. node	11935 Mar 24 08:20	19° Υ 01'23	
evening set	11934 Apr 08 08:55	5° 8 44'59		min. Earth dist.	11935 Mar 27 17:37	15° Υ 08'10	0.67653 AU
min. Earth dist.	11934 Apr 13 00:13	0° 8 24'46	0.68429 AU	inferior conj	11935 Mar 29 02:14	13° Υ 23'16	1°27'27
iiiii. Lattii tiist.	11934 Apr 13 00:13	30°RΥ	0.06429 AU	minimum elong	11935 Mar 29 00:22	13° Υ 29'16	1°26'41
inferior conj	11934 Apr 13 07:34 11934 Apr 13 20:44	29° Υ 15'32	2°08'49	morning rise	11935 Apr 03 15:45	7° Υ 31'06	1 2041
minimum elong	11934 Apr 13 18:33	29° Y 22'51	2°07'51	direct	11935 Apr 07 02:40	6°Υ22'36	
morning rise	11934 Apr 19 04:18	23° Y 14'38	2 0/31	morning max el	11935 Apr 07 02:40 11935 Apr 14 00:48	10° Υ 09'24	19°07'40
direct	11934 Apr 23 03:05	23 γ 14 38 21° γ 45'51		desc. node	11935 Apr 14 00:48 11935 Apr 26 17:45	26° Y '57'06	19 07 40
morning max el	11934 Apr 20 03:03	26° Υ '04'46	20°07'58	greatest brilliancy	11935 Apr 20 17:43 11935 Apr 27 01:52	27° Υ 27'32	-0.7m
morning max er	11934 Apr 30 19.28 11934 May 04 08:36	0°8	20 07 38	greatest billiancy	11935 Apr 27 01:32 11935 Apr 28 18:20	0° 8	-0.7111
desc. node	11934 May 09 21:02	7° 8 12'30		morning set	11935 Apr 28 18:20 11935 May 07 14:48	13° 8 34'57	
desc. node	11934 May 25 08:10	0°Ⅱ		morning set	11935 May 18 04:28	0°Ⅱ	
morning set	11934 May 28 11:42	4° Ⅱ 49'35		max. Earth dist.	11935 May 21 05:01	4° Ⅱ 44'04	1.45312 AU
max. Earth dist.	11934 Jun 07 13:31		1.44170 AU	max. Lartii dist.	11755 Way 21 05.01	т Дттот	1.43312 AO
max. Earth dist.	11754 Juli 07 15.51	20 1130 42	1.44170710	superior conj	11935 May 24 01:48	9° Ⅱ 14'51	-2°12'48
superior conj	11934 Jun 13 06:32	29° Ⅱ 50'07	-2°07'45	minimum elong	11935 May 23 23:57	9° П 07'33	
minimum elong	11934 Jun 13 11:19	0°909'44		mmmum vieng	11935 Jun 05 23:47	0.00 To 1.33	2 13 31
minimum crong	11934 Jun 13 08:57	0.ಕಾ	2 00 22	evening rise	11935 Jun 07 18:23	2° © 54'13	
evening rise	11934 Jun 26 06:27	21°9643'36		asc. node	11935 Jun 20 06:11	22°959'07	
	11934 Jul 01 02:00	0° Ω			11935 Jun 25 09:54	0°N	
asc. node	11934 Jul 03 09:12	3°Ω53'01		evening max el	11935 Jun 27 06:05	2° Ω 00′21	18°22'09
evening max el	11934 Jul 13 16:29	18° Ω 28'48	18°05'14	retrograde	11935 Jul 03 15:47	5° Ω 25'57	
retrograde	11934 Jul 20 02:28	21° Ω 49'19		evening set	11935 Jul 06 16:55	4° Ω 34'40	
evening set	11934 Jul 22 19:23	21° Ω 12'20		, and the second	11935 Jul 11 18:23	30° №	
inferior conj	11934 Jul 29 02:43	16° Ω 00′28	2°06'54	inferior conj	11935 Jul 12 12:59	29° © 06'05	2°46'29
minimum elong	11934 Jul 29 05:22	15° Ω 53'29	2°05'32	minimum elong	11935 Jul 12 15:09	28° © 59'43	2°45'18
min. Earth dist.	11934 Jul 31 23:28	13° Ω 00'34	0.62439 AU	min. Earth dist.	11935 Jul 14 20:17	26° © 24'56	0.64518 AU
morning rise	11934 Aug 04 13:12	9° Ω 51'35		morning rise	11935 Jul 18 12:07	22°546'57	
desc. node	11934 Aug 05 20:01	9° Ω 00'46		desc. node	11935 Jul 23 17:20	20°514'10	
direct	11934 Aug 11 05:42	7° Ω 25'52		direct	11935 Jul 25 02:28	20° © 07'33	
morning max el	11934 Aug 25 08:15	15° Ω 28'13	27°55'44	morning max el	11935 Aug 07 18:21	28° © 07'16	27°25'43
Č	11934 Sep 06 05:18	0° m		C	11935 Aug 09 13:26	$0^{\circ}\Omega$	
	11934 Sep 24 05:44	0∘ <u>⊽</u>			11935 Aug 31 00:03	0° m)	
morning set	11934 Sep 28 10:21	8° ≙ 17'02		morning set	11935 Sep 12 00:49	21° m 47'53	
asc. node	11934 Sep 29 10:17	10° ≙ 19'35		asc. node	11935 Sep 16 06:57	0° £ 22'19	
max. Earth dist.	11934 Oct 03 18:40	19° ≏ 31'16	1.31966 AU		11935 Sep 16 02:37	0∘ 亚	
				max. Earth dist.	11935 Sep 16 15:40	1° ≏ 07'24	1.33040 AU
superior conj	11934 Oct 06 00:06	24° ≏ 22'00	1°00'24		<u>*</u>		
minimum elong	11934 Oct 05 21:52	24° ₽ 09'50	1°00'18	superior conj	11935 Sep 20 04:51	8° ჲ 36'04	0°37'17
Č	11934 Oct 08 13:35	0° M		minimum elong	11935 Sep 20 03:08	8° ഫ 26'55	0°37'00
evening rise	11934 Oct 12 19:07	9° M ₊14'28		evening rise	11935 Sep 27 06:14	23° ≏ 47'10	
Č	11934 Oct 23 08:27	0° ∡ ¹		Ü	11935 Sep 30 05:26	0°M	
					-		

evening max el	11935 Oct 18 22:33	29° M L15'31	220225	behind sun begin	11936 Sep 02 21:31	21° m ₂ 59'58	
desc. node	11935 Oct 18 22:33 11935 Oct 19 14:08	29°M52'41	22 29 23	behind sun end	11936 Sep 02 21:31 11936 Sep 03 07:19	21° m/59'31	
dese. Hode	11935 Oct 19 17:18	0° √		bennia sun ena	11936 Sep 06 17:40	ე∘ <u>ი</u>	
retrograde	11935 Oct 31 21:38	5° ∡ 741'56		evening rise	11936 Sep 10 17:46	8° 亞 12'11	
evening set	11935 Nov 04 10:58	5° √ 14'12		evening rise	11936 Sep 22 05:48	0°M	
min. Earth dist.	11935 Nov 12 06:00	1° × 745'00	0.54826 AU	evening max el	11936 Sep 22 03:16 11936 Sep 29 17:33	9°M37'31	20°56'16
inferior conj	11935 Nov 13 03:22	1° × 14'46		desc. node	11936 Oct 05 11:31	13°M55'56	20 20 10
minimum elong	11935 Nov 12 23:28	1° × 720'17		retrograde	11936 Oct 11 08:35	15°M23'48	
	11935 Nov 15 09:10	30°RML		evening set	11936 Oct 13 17:37	15°M10'22	
morning rise	11935 Nov 21 13:24	27° M L27'11		inferior conj	11936 Oct 22 19:05	11°ML15'52	-4°50'53
direct	11935 Nov 24 19:45	27°ML03'00		minimum elong	11936 Oct 22 09:19	11° M 29'41	4°48'03
	11935 Dec 03 08:20	0° ∡ ¹		min. Earth dist.	11936 Oct 23 13:00	10°M50'25	0.54591 AU
morning max el	11935 Dec 06 12:46	2° ∡ ³36'40	21°17'11	morning rise	11936 Oct 31 01:15	7° M 21′59	
asc. node	11935 Dec 13 07:44	10° ∡ ¹45'30		direct	11936 Nov 04 03:53	6° M 45'45	
	11935 Dec 24 04:03	0°ರ		morning max el	11936 Nov 17 04:08	13°M01'51	23°00'08
morning set	11935 Dec 26 12:34	4° る 50'59		asc. node	11936 Nov 29 04:41	28° M 49'15	
					11936 Nov 29 21:28	0° ∡ ¹	
superior conj	11936 Jan 02 19:06	20° ට 06'32	1°27'27	morning set	11936 Dec 09 23:53	19° ∡ ³38'04	
minimum elong	11936 Jan 02 21:12	20° ප 17'26	1°28'03		11936 Dec 14 19:27	0° ප	
max. Earth dist.	11936 Jan 07 09:24	29° る 26'27	1.35220 AU				
	11936 Jan 07 16:11	0° ≈		superior conj	11936 Dec 16 22:43	4° る 36'08	1°36'25
evening rise	11936 Jan 11 11:32	7° ≈ 20'41		minimum elong	11936 Dec 16 23:44	4° る 41'36	1°37'11
desc. node	11936 Jan 15 12:47	14° ≈ 46′15		max. Earth dist.	11936 Dec 20 03:05	11° る 20'43	1.33549 AU
	11936 Jan 24 14:41	0° ∀		evening rise	11936 Dec 24 19:48	20° る 53'28	
evening max el	11936 Feb 15 19:08	29°) €01'35	26°32'15		11936 Dec 29 14:32	0° ≈	
	11936 Feb 16 19:49	0° Y		desc. node	11937 Jan 01 09:37	5° ≈ 01'52	
retrograde	11936 Feb 28 19:27	6° Y 21′58			11937 Jan 17 12:34	0° ∀	
evening set	11936 Mar 06 03:55	3° Ƴ 49'58		evening max el	11937 Jan 28 08:35	12°) 35′01	27°15'34
	11936 Mar 09 23:04	30° ₹ ₩		retrograde	11937 Feb 10 20:42	19° ⊁ 59'38	
asc. node	11936 Mar 10 05:42	29°) 40′34		evening set	11937 Feb 17 14:11	17° ∺ 27'37	
min. Earth dist.	11936 Mar 10 06:10	29° ∺ 39'11	0.66477 AU	min. Earth dist.	11937 Feb 21 11:36	13° ∺ 49'39	0.64935 AU
inferior conj	11936 Mar 12 02:47	27° ∺ 25'12	0°36'04	inferior conj	11937 Feb 23 19:59	11° ∺ 14'50	
minimum elong	11936 Mar 12 01:52	27° ∺ 28′00	0°35'50	minimum elong	11937 Feb 23 20:44	11° 米 12'47	0°24'45
morning rise	11936 Mar 18 00:48	21°) 43′32		asc. node	11937 Feb 25 03:03	9° ¥ 50'46	
direct	11936 Mar 21 01:08	20°) 52'41		morning rise	11937 Mar 02 04:56	5° ¥ 46′08	
morning max el	11936 Mar 27 12:44	24° ₩ 19'54	18°23'35	direct	11937 Mar 04 20:12	5°) €09'37	
	11936 Apr 01 07:31	0° Υ		morning max el	11937 Mar 11 04:58	8°) €28'48	17°56'24
desc. node	11936 Apr 12 14:23	17° Y ′02'48			11937 Mar 25 23:50	0° Υ	
morning set	11936 Apr 16 15:08	23° Y 26'34		morning set	11937 Mar 28 20:18	4° Υ 43'17	
	11936 Apr 20 18:24	$_{0}$ 8		desc. node	11937 Mar 30 10:59	7° Y 23′10	
	1102634 02 00 06	100 🔾 14141	1057127		11027 4 11 22 02	2700025142	1005116
superior conj	11936 May 02 09:06	18° 8 14'41		superior conj	11937 Apr 11 22:02	27° Υ 35'43	
minimum elong max. Earth dist.	11936 May 02 00:44	17° 8 42'00 19° 8 13'09	1.45746 AU	minimum elong	11937 Apr 11 13:20	27° Y 01'08 0° と	1-24-35
max. Earm dist.	11936 May 03 00:04	0° Ⅱ	1.43/40 AU	max. Earth dist.	11937 Apr 13 10:26	3° 8 47'27	1.45431 AU
evening rise	11936 May 09 21:42 11936 May 18 06:03	0 Ⅱ 13°Ⅱ05'24		evening rise	11937 Apr 15 20:08 11937 Apr 27 22:51	22° 8 35'13	1.43431 AU
greatest brilliancy	11936 May 28 02:13	28° Ⅱ 29'58	-0.8m	evening rise	11937 Apr 27 22:31 11937 May 02 19:06	0°Ⅱ	
greatest offinaley	11936 May 29 01:38	0°9	-0.0111	greatest brilliancy	11937 May 02 19:00 11937 May 12 06:23	14° Ⅱ 13'17	-0.6m
asc. node	11936 Jun 06 03:14	11°934'50		evening max el	11937 May 12 00:23	29° Ⅱ 25'40	19°47'25
evening max el	11936 Jun 09 16:51	15°9541'13	18°56'38	asc. node	11937 May 24 00:22	29° II 29'45	17 17 23
retrograde	11936 Jun 16 10:54	19° 9 24'47	10 00 00	450. HOUC	11937 May 24 00:22 11937 May 24 12:44	0°95	
evening set	11936 Jun 19 20:38	18°9517'47		retrograde	11937 May 31 09:02	3° 5 39'14	
inferior conj	11936 Jun 25 09:05	12°533'58	3°08'07	evening set	11937 Jun 04 03:54	2° © 15'54	
minimum elong	11936 Jun 25 10:16	12° © 30'14	3°07'11		11937 Jun 06 13:38	30°RⅡ	
min. Earth dist.	11936 Jun 27 01:33	10°ഇ25'58	0.66253 AU	inferior conj	11937 Jun 09 11:56	26° Ⅱ 18'08	3°15'11
morning rise	11936 Jun 30 23:14	6°911'34		minimum elong	11937 Jun 09 12:00	26° Ⅱ 17'53	3°14'22
direct	11936 Jul 07 06:28	3°529'19		min. Earth dist.	11937 Jun 10 13:44	24° Ⅱ 51'42	0.67551 AU
desc. node	11936 Jul 09 14:33	3°5548'42		morning rise	11937 Jun 14 19:46	19° Ⅱ 56'51	
morning max el	11936 Jul 20 05:10	11° © 11'48	26°26'50	direct	11937 Jun 20 16:27	17° Ⅲ 21'30	
5	11936 Aug 04 04:22	0°N		desc. node	11937 Jun 26 11:40	19° Ⅲ 20'45	
	11936 Aug 22 14:04	0° mp		morning max el	11937 Jul 02 15:23	24° Ⅲ 31'35	25°08'18
morning set	11936 Aug 25 03:27	4° mp 43'47		-	11937 Jul 07 13:31	0° ©	
max. Earth dist.	11936 Aug 29 02:36	12° m, 21'03	1.34627 AU		11937 Jul 28 14:52	$0^{\circ}\Omega$	
asc. node	11936 Sep 02 03:36	20° m/28'01		morning set	11937 Aug 07 14:13	16° Ω 54'48	
				max. Earth dist.	11937 Aug 11 04:29	23° Ω 27'31	1.36643 AU
superior conj	11936 Sep 03 02:56	22° m 27'50	0°09'23		11937 Aug 14 15:36	0° m	
minimum elong	11936 Sep 03 02:25	22° m 25'13	0°09'04				

Flanetary Fliend	omena of Mercury	110111 1 1 1 0 0 0	miough 1210	12 (U1), Asiroulei	ISt AU 16-1760-2023	14.22,	page 162
superior conj	11937 Aug 17 15:24	5° Mp 49'50	-0°22'28	minimum elong	11938 Jul 31 18:30	18° Ω 50'46	0°56'26
minimum elong	11937 Aug 17 16:51	5° m 56'59		asc. node	11938 Aug 06 21:01	0° m ₂ 33'17	0 00 20
asc. node	11937 Aug 20 00:18	10° mp 33'08	0 22 30	use. Houe	11938 Aug 06 14:11	0°m)	
evening rise	11937 Aug 25 20:36	22° m 23'48		evening rise	11938 Aug 09 18:49	6° m) 13'34	
	11937 Aug 29 16:14	0∘ ʊ			11938 Aug 23 16:41	0∘ ⊽	
evening max el	11937 Sep 12 02:09	20° £ 42'27	19°41'33	evening max el	11938 Aug 25 23:47	2° ₽ 34'09	18°48'20
retrograde	11937 Sep 22 01:11	25° Ω 40'10		retrograde	11938 Sep 03 09:54	6° £ 47'21	
desc. node	11937 Sep 22 08:57	25° Ω 39'52		evening set	11938 Sep 05 07:42	6° ₽ 35'09	
evening set	11937 Sep 23 22:12	25° ჲ 30'22		desc. node	11938 Sep 09 06:23	5° ഫ 01'30	
inferior conj	11937 Oct 02 18:07	21° ≏ 27'07	-3°11'19	inferior conj	11938 Sep 13 11:28	2° - 14'22	-1°19'24
minimum elong	11937 Oct 02 09:49	21° ≏ 40'03	3°08'08	minimum elong	11938 Sep 13 08:09	2° ჲ 20′23	1°18'08
min. Earth dist.	11937 Oct 04 22:34	20° ჲ 05'23	0.55296 AU	min. Earth dist.	11938 Sep 16 13:09	0° ჲ 01'32	0.56812 AU
morning rise	11937 Oct 10 19:40	17° Ω 06'53			11938 Sep 16 14:02	30°R. MD	
direct	11937 Oct 15 18:13	16° Ω 12'57		morning rise	11938 Sep 21 05:16	27° m) 16'37	
morning max el	11937 Oct 29 14:43	23° Ω 06'08	24°47'56	direct	11938 Sep 26 22:09	25° m 58'00	
	11937 Nov 04 19:01	0°M			11938 Oct 07 06:02	0∘ ⊽	
asc. node	11937 Nov 16 01:33	17°M33'08		morning max el	11938 Oct 11 04:25	3° ഫ 21'33	26°22'42
use. noue	11937 Nov 22 09:52	0° ⊼		morning man vi	11938 Oct 30 07:12	0°M	20 22 .2
morning set	11937 Nov 24 11:44	4° ₹ 23'34		asc. node	11938 Nov 02 22:22	6°M46'18	
morning set	11/5/ 1107 24 11.44	T X 23 3T		morning set	11938 Nov 08 22:22	19°ML01'57	
superior conj	11937 Dec 01 07:09	19° ∡ 17'13	1°38'55	morning set	11938 Nov 13 22:35	0° ⊼ ¹	
minimum elong	11937 Dec 01 07:02	19° × 16'32	1°39'42		11/30 100 13 22.33	0 %	
max. Earth dist.	11937 Dec 01 07:02 11937 Dec 03 04:29	23°×724'53	1.32323 AU	superior conj	11938 Nov 15 18:11	4° ∡ '02'35	1025124
max. Earth dist.	11937 Dec 05 04:29	25 × 24 33	1.32323 AU	minimum elong	11938 Nov 15 17:03	3° √ 56'15	1°36'02
evening rise	11937 Dec 08 00:13	4°る52'00		max. Earth dist.	11938 Nov 16 11:16	5° × 30 13	1.31575 AU
desc. node	11937 Dec 08 14:23 11937 Dec 19 06:36	4 352 00 24° る 59'04		evening rise	11938 Nov 10 11:10	19° √ 08'24	1.51575 AU
desc. node	11937 Dec 19 06.36 11937 Dec 22 06:33	24 3 3904 0° ≈		evening rise		19 x・08 24 0°る	
avanina may al	11937 Dec 22 00.33 11938 Jan 10 20:09	0 ≈ 25°≈42'22	27°32'08	desc. node	11938 Nov 28 01:23 11938 Dec 06 03:40	0 る 14° る 29'32	
evening max el		23 ≈ 42 22 0°) €	27 32 08	desc. node		0°≈	
	11938 Jan 16 02:14	3° ∺ 04'05			11938 Dec 16 18:48		27917129
retrograde	11938 Jan 24 14:55			evening max el	11938 Dec 24 03:22	8°≈10'32	2/1038
evening set	11938 Jan 31 13:47	0°) (39′05		retrograde	11939 Jan 07 01:23	15°≈25'35	
· F d F d	11938 Feb 01 11:11	30°R≈ 27020121	0.62070 ATT	evening set	11939 Jan 13 23:34	13°≈16'17	0.60004.411
min. Earth dist.	11938 Feb 04 07:53	27°≈30'31	0.63079 AU	min. Earth dist.	11939 Jan 17 17:51	10°≈30'00	0.60994 AU
inferior conj	11938 Feb 07 03:01	24°≈45'17		inferior conj	11939 Jan 20 20:34	7°≈47'49	
minimum elong	11938 Feb 07 06:11	24°≈37'26	1°34'28	minimum elong	11939 Jan 21 02:36	7°≈34'39	2°51'10
asc. node	11938 Feb 12 00:21	20°≈33'57		morning rise	11939 Jan 28 08:29	2°≈54'11	
morning rise	11938 Feb 14 00:57	19° ≈ 32'35		asc. node	11939 Jan 29 21:38	2°≈36'55	
direct	11938 Feb 16 08:56	19°≈06'46		direct	11939 Jan 30 11:37	2°≈35'30	
morning max el	11938 Feb 22 22:41	22°≈28'36	17°46'37	morning max el	11939 Feb 06 14:33	6°≈10'08	17°55'05
	11938 Feb 28 20:01	0° ∀			11939 Feb 21 20:50	0° ∀	
morning set	11938 Mar 11 03:03	17°) 13′27		morning set	11939 Feb 22 05:06	0°) €37'44	
desc. node	11938 Mar 17 07:35	27°) €53'47		desc. node	11939 Mar 04 04:13	18°) 30′46	
	11938 Mar 18 13:17	0° Υ					
		••		superior conj	11939 Mar 04 17:10	19° 米 27′07	
superior conj	11938 Mar 23 07:13	7° Y 56'19		minimum elong	11939 Mar 04 16:49	19° ¥ 25'35	0°03'55
minimum elong	11938 Mar 23 02:39	7° Y 37′28		behind sun begin	11939 Mar 04 08:48	18° ¥ 50'46	
max. Earth dist.	11938 Mar 29 14:24	18° Y 10′02	1.44404 AU	behind sun end	11939 Mar 05 00:49	20° ∺ 00′20	
	11938 Apr 06 03:10	0°8			11939 Mar 10 22:17	0° Υ	
evening rise	11938 Apr 07 10:22	2° 8 00'17		max. Earth dist.	11939 Mar 12 04:27	2° Y ′04'33	1.42778 AU
	11938 Apr 26 08:50	Π °0		evening rise	11939 Mar 18 07:51	11° Y ′57'58	
evening max el	11938 May 06 22:49	13° Ⅱ 10'50	20°52'11		11939 Mar 30 04:04	0°8	
asc. node	11938 May 10 21:34	16° Ⅱ 30′59		evening max el	11939 Apr 19 17:38	26° 8 57'17	22°07'17
retrograde	11938 May 15 07:52	18° Ⅱ 03'38			11939 Apr 23 03:34	Π °0	
evening set	11938 May 19 12:37	16° Ⅱ 24′06		asc. node	11939 Apr 27 18:50	2° Ⅱ 23'31	
inferior conj	11938 May 24 18:58	10° Ⅱ 14'01	3°10'01	retrograde	11939 Apr 29 05:39	2° ∏ 33'32	
minimum elong	11938 May 24 18:03	10° Ⅱ 17'13	3°09'11	evening set	11939 May 03 21:05	0° Ⅱ 38'37	
min. Earth dist.	11938 May 25 06:56	9° Ⅱ 32'36	0.68387 AU		11939 May 04 14:15	30° ₹ 8	
morning rise	11938 May 29 23:16	3° Ⅱ 56′23		inferior conj	11939 May 09 04:05	24° 8 18'28	
direct	11938 Jun 04 07:27	1° Ⅱ 35'17		minimum elong	11939 May 09 02:24	24° 8 24'20	2°53'11
desc. node	11938 Jun 13 08:42	6° Ⅱ 21'57		min. Earth dist.	11939 May 09 03:04	24° 8 22'00	0.68759 AU
morning max el	11938 Jun 15 01:24	8° Ⅱ 00'09	23°39'46	morning rise	11939 May 14 07:33	18° 8 06'10	
	11938 Jul 02 06:21	0 \circ \odot		direct	11939 May 19 02:36	16° 8 03'54	
morning set	11938 Jul 20 04:14	28° © 08'05		morning max el	11939 May 28 13:30	21° 8 36'56	22°10'49
	11938 Jul 21 06:31	0 ° Ω		desc. node	11939 May 31 05:39	24° 8 29'00	
max. Earth dist.	11938 Jul 24 02:01	4° £ 52′30	1.38920 AU		11939 Jun 04 18:28	Π °0	
					11939 Jun 25 12:43	0 \circ \odot	
superior conj	11938 Jul 31 14:32	18° Ω 32'12	-0°56'30	morning set	11939 Jun 30 17:13	8° © 13'53	

max. Earth dist.	11939 Jul 06 01:24	17° © 00'46	1.41208 AU	superior conj	11940 Jun 24 03:37	11° © 21'00	
				minimum elong	11940 Jun 24 10:09	11°5548'26	1°57'24
superior conj	11939 Jul 13 20:04	0° Ω 25'43			11940 Jul 04 22:13	$0^{\circ}\Omega$	
minimum elong	11939 Jul 14 02:19	0° Ω 53′27	1°29'36	evening rise	11940 Jul 06 03:40	2° Ω 10′28	
	11939 Jul 13 14:16	$0^{\circ}\Omega$		asc. node	11940 Jul 10 14:41	10° Ω 03′08	
evening rise	11939 Jul 24 06:40	19° Ω 32'54		evening max el	11940 Jul 22 19:20	28° Ω 08'50	18°03'51
asc. node	11939 Jul 24 17:50	20° Ω 24'54			11940 Jul 25 00:11	O° Mp	
	11939 Jul 29 23:19	0° m)		retrograde	11940 Jul 29 09:39	1°Mp32'15	
evening max el	11939 Aug 09 06:54	15° Mp 06'24	18°16'12	evening set	11940 Jul 31 22:01	1° № 02'29	
retrograde	11939 Aug 16 13:33	18° m 47'14			11940 Aug 02 21:45	30° R Ω	
evening set	11939 Aug 18 17:52	18° m 28'07		inferior conj	11940 Aug 07 13:36	26° Ω 01′20	1°34'27
inferior conj	11939 Aug 26 02:38	13°Mp46'55	0°19'14	minimum elong	11940 Aug 07 16:02	25° Ω 55'23	1°33'09
minimum elong	11939 Aug 26 03:17	13° m 45'32	0°18'40	min. Earth dist.	11940 Aug 10 16:37	22° Ω 59'12	0.61151 AU
desc. node	11939 Aug 27 03:48	12° m 53'14		desc. node	11940 Aug 13 01:11	20° Ω 57'33	
min. Earth dist.	11939 Aug 29 10:43	10° My $58'23$	0.58872 AU	morning rise	11940 Aug 14 07:24	20° Ω 02'55	
morning rise	11939 Sep 02 09:14	8° Mp $14'08$		direct	11940 Aug 20 22:39	17° Ω 49'05	
direct	11939 Sep 08 16:30	6° Mp 26′40		morning max el	11940 Sep 04 04:22	25° Ω 47'23	27°56'57
morning max el	11939 Sep 23 00:58	14° Mp 12'09	27°28'31		11940 Sep 08 02:06	0° m	
	11939 Oct 05 17:17	0。 ಹ			11940 Sep 28 06:00	0∘ ত	
asc. node	11939 Oct 20 19:08	26° £ 20'57		asc. node	11940 Oct 06 15:53	16° ≏ 10'39	
	11939 Oct 22 14:09	0° M.		morning set	11940 Oct 07 08:56	17° ≏ 38'28	
morning set	11939 Oct 24 06:04	3°M28'38		max. Earth dist.	11940 Oct 13 03:26	29° ≙ 59'24	1.31580 AU
					11940 Oct 13 03:32	0° M .	
superior conj	11939 Oct 31 05:55	18°ML46'37	1°26'09				
minimum elong	11939 Oct 31 04:02	18°ML36'07	1°26'32	superior conj	11940 Oct 14 16:29	3°M23'41	1°11'23
max. Earth dist.	11939 Oct 30 20:07	17°ML51'59	1.31325 AU	minimum elong	11940 Oct 14 14:15	3°ML11'18	1°11'26
	11939 Nov 05 07:30	0° ∡ 7		evening rise	11940 Oct 21 09:47	18° M .11'19	
evening rise	11939 Nov 06 23:35	3° х 36′43			11940 Oct 27 02:59	0° ∡ ¹	
-	11939 Nov 20 21:30	ರ°0		desc. node	11940 Nov 08 22:02	21° ₹ ¹24'34	
desc. node	11939 Nov 23 00:49	3° ට 22'47			11940 Nov 16 04:08	6°0	
evening max el	11939 Dec 06 03:47	19° る 49'54	26°26'47	evening max el	11940 Nov 16 20:08	0° る 38'49	25°06'30
retrograde	11939 Dec 20 02:31	26° පි 56'16		retrograde	11940 Nov 30 16:06	7° ප 35'00	
evening set	11939 Dec 26 15:29	25° ට 11'47		evening set	11940 Dec 06 09:04	6° ප 21'41	
min. Earth dist.	11939 Dec 30 17:29	22° る 35'47	0.58851 AU	min. Earth dist.	11940 Dec 11 08:08	3° ⋜ 39'46	0.56883 AU
inferior conj	11940 Jan 02 21:04	20° ට 12'50	-4°12'28	inferior conj	11940 Dec 14 01:41	1° る 52'03	-5°18'18
minimum elong	11940 Jan 03 05:17	19° ප 57'16	4°09'14	minimum elong	11940 Dec 14 09:01	1° る 39'57	5°16'08
morning rise	11940 Jan 10 21:55	15° ⋜ 40'34			11940 Dec 17 00:34	30°₽ ⋌ ¹	
direct	11940 Jan 13 00:05	15° る 25'25		morning rise	11940 Dec 22 11:12	27° х 41'42	
asc. node	11940 Jan 16 18:52	16° ට 17'51		direct	11940 Dec 24 18:38	27° ∡ ¹26′20	
morning max el	11940 Jan 21 00:49	19° る 22'35	18°23'09		11940 Dec 31 19:24	0°ರ	
C	11940 Jan 28 20:22	0° ≈		asc. node	11941 Jan 02 16:03	1°る32'42	
morning set	11940 Feb 05 20:40	14° ≈ 38'34		morning max el	11941 Jan 03 01:32	1° ⋜ 55′08	19°12'46
C	11940 Feb 13 23:24	0° ∀		morning set	11941 Jan 19 21:27	29° ට 03'43	
				•	11941 Jan 20 08:46	0° ≈	
superior conj	11940 Feb 15 01:13	1°) 58′56	0°31'00				
minimum elong	11940 Feb 15 03:21	2°) €08'43	0°31'07	superior conj	11941 Jan 28 02:48	15° ≈ 19'18	0°58'54
desc. node	11940 Feb 19 00:51	9° ₩ 09'58		minimum elong	11941 Jan 28 05:43	15° ≈ 33'25	0°59'06
max. Earth dist.	11940 Feb 22 13:37	15° ¥ 19'15	1.40740 AU	max. Earth dist.	11941 Feb 03 20:12	27° ≈ 54'25	1.38523 AU
evening rise	11940 Feb 27 00:31	22°) 48′16		desc. node	11941 Feb 04 21:32	29° ≈ 48′12	
	11940 Mar 02 11:26	$0^{\circ}\mathbf{\Upsilon}$			11941 Feb 05 00:10	0° ∀	
	11940 Mar 23 03:43	9° 8		evening rise	11941 Feb 07 14:33	4°) €34'18	
evening max el	11940 Apr 01 08:54	10° 8 46'04	23°27'40		11941 Feb 23 13:10	0° Y	
retrograde	11940 Apr 12 00:47	17° 8 03'14		evening max el	11941 Mar 14 22:40	24° Ƴ 37'35	24°46'51
asc. node	11940 Apr 13 16:09	16° 8 50'40			11941 Mar 21 17:22	8° 0	
evening set	11940 Apr 17 03:41	14° 8 54'20		retrograde	11941 Mar 26 16:05	1° 8 27'32	
min. Earth dist.	11940 Apr 21 23:52	9° 8 13'21	0.68677 AU		11941 Mar 31 02:59	30° ₹Ƴ	
inferior conj	11940 Apr 22 13:17	8° 8 27'14	2°28'10	asc. node	11941 Mar 31 13:30	29° Ƴ 41'24	
minimum elong	11940 Apr 22 11:10	8° 8 34'30	2°27'12	evening set	11941 Apr 01 06:54	29° Ƴ 06'44	
morning rise	11940 Apr 27 18:36	2° 8 21'37		min. Earth dist.	11941 Apr 05 19:07	24° Ƴ 01′25	0.68157 AU
direct	11940 May 02 00:38	0° 8 40'24		inferior conj	11941 Apr 06 20:42	22° Y 36'37	1°52'28
morning max el	11940 May 10 06:50	5° 8 23'42	20°49'13	minimum elong	11941 Apr 06 18:35	22° Y 43'36	1°51'34
desc. node	11940 May 17 02:29	13° 8 23'31		morning rise	11941 Apr 12 06:29	16° Ƴ 39'08	
	11940 May 28 21:09	$\Pi^{\circ}0$		direct	11941 Apr 16 00:11	15° Ƴ 18'59	
morning set	11940 Jun 09 05:31	17° Ⅱ 14'29		morning max el	11941 Apr 23 07:40	19° Ƴ 22'23	19°40'19
	11940 Jun 17 06:28	0ංම			11941 May 01 22:28	0°8	
max. Earth dist.	11940 Jun 17 07:06	0°902'31	1.43231 AU	desc. node	11941 May 03 23:15	2° 8 52'40	
				greatest brilliancy	11941 May 06 01:13	5° 8 53'50	-0.6m

morning set	11941 May 19 05:34	25° 8 47'19		morning set	11942 Apr 28 15:49	4° 8 56'06	
	11941 May 21 23:07	0°Ⅱ		max. Earth dist.	11942 May 13 13:55	28° 8 13'06	1.45591 AU
max. Earth dist.	11941 May 30 20:03	13°Щ52'23	1.44747 AU				
		—		superior conj	11942 May 14 23:24	0° Ⅲ 24'11	
superior conj	11941 Jun 04 11:09	21° Ⅱ 15′29		minimum elong	11942 May 14 18:17	0° Ⅱ 04'10	2°09'18
minimum elong	11941 Jun 04 13:35	21° Ⅱ 25′13	2°12'59		11942 May 14 17:13	0°Щ	
	11941 Jun 09 20:18	0		evening rise	11942 May 30 06:27	24° Ⅱ 40'32	
evening rise	11941 Jun 18 04:54	13° © 55'27			11942 Jun 02 13:53	0	
asc. node	11941 Jun 27 11:36	29° © 22'47		greatest brilliancy	11942 Jun 05 09:13	4° © 30'17	-0.9m
	11941 Jun 27 20:56	$0 {\circ} \Omega$		asc. node	11942 Jun 14 08:36	18° © 17'13	
evening max el	11941 Jul 06 09:26	11° Ω 32′08	18°10'15	evening max el	11942 Jun 19 22:05	25° © 08'30	18°34'42
retrograde	11941 Jul 12 17:58	14° Ω 52'51		retrograde	11942 Jun 26 10:18	28°940'21	
evening set	11941 Jul 15 14:29	14° Ω 09'50		evening set	11942 Jun 29 15:03	27° © 42'24	
inferior conj	11941 Jul 21 16:32	8° Ω 50′29	2°26'07	inferior conj	11942 Jul 05 07:26	22° © 06'52	2°57'38
minimum elong	11941 Jul 21 19:05	8° Ω 43'27	2°24'49	minimum elong	11942 Jul 05 09:13	22°501'26	2°56'35
min. Earth dist.	11941 Jul 24 07:48	5° Ω 56'43	0.63363 AU	min. Earth dist.	11942 Jul 07 08:20	19° © 38'42	0.65302 AU
morning rise	11941 Jul 27 21:58	2° Ω 36'30		morning rise	11942 Jul 11 02:25	15° © 45'35	
desc. node	11941 Jul 30 22:31	0° Ω 48'52		direct	11942 Jul 17 14:05	13°904'02	
direct	11941 Aug 03 14:19	0° Ω 03'52		desc. node	11942 Jul 17 19:46	13°904'14	
morning max el	11941 Aug 17 12:47	8°Ω05'43	27°47'04	morning max el	11942 Jul 30 23:39	20°958'06	27°03'48
morning max ci	11941 Sep 03 10:18	0°m)	2/ 4/04	morning max ci	11942 Aug 07 19:07	0°Ω	27 03 40
	-	0∘ ত المار			_		
	11941 Sep 20 11:36			. ,	11942 Aug 27 13:48	0° Mp	
morning set	11941 Sep 21 04:38	1° Ω 25'03		morning set	11942 Sep 04 14:30	14° Mp 42'19	1 22/57 111
asc. node	11941 Sep 23 12:32	6° Ω 09'41	1 22250 111	max. Earth dist.	11942 Sep 08 22:32	23° m 17'05	1.33657 AU
max. Earth dist.	11941 Sep 26 05:21	11° ≏ 49'28	1.32359 AU	asc. node	11942 Sep 10 09:12	26° m 14'20	
					11942 Sep 12 04:40	0∘ ⊽	
superior conj	11941 Sep 28 23:56	17° ≏ 47'27	0°51'14				
minimum elong	11941 Sep 28 21:51	17° ≏ 36'08	0°51'01	superior conj	11942 Sep 13 02:08	1° ≏ 52'49	0°26'00
	11941 Oct 04 14:17	0° M ₊		minimum elong	11942 Sep 13 00:51	1° ≏ 46′01	0°25'41
evening rise	11941 Oct 05 21:05	2°M₄46′06		evening rise	11942 Sep 20 07:40	17° ≏ 16'30	
	11941 Oct 20 12:21	0° ∡ 7			11942 Sep 26 14:28	0° M ₊	
desc. node	11941 Oct 26 19:20	8° ∡ 14'18		evening max el	11942 Oct 10 19:37	20°M55'31	21°47'55
evening max el	11941 Oct 29 06:38	10° ∡ ¹49'14	23°27'41	desc. node	11942 Oct 13 16:40	23°M26'35	
retrograde	11941 Nov 11 16:39	17° ∡ ³30′20		retrograde	11942 Oct 23 06:44	27° M 07'22	
evening set	11941 Nov 16 02:35	16° ∡ ¹48'00		evening set	11942 Oct 26 06:28	26°M47'13	
min. Earth dist.	11941 Nov 22 16:33	13° ∡ ′41′23	0.55373 AU	inferior conj	11942 Nov 04 04:10	22°M51'04	-5°29'41
inferior conj	11941 Nov 24 10:00	12° ∡ ′40'41		minimum elong	11942 Nov 03 20:59	23°ML01'07	
minimum elong	11941 Nov 24 11:11	12° ∡ ³38'57		min. Earth dist.	11942 Nov 03 23:04		0.54610 AU
morning rise	11941 Dec 02 21:32	8° ∡ 148'30	2 20 10	morning rise	11942 Nov 12 12:40	19°M03'39	0.0 1010 110
direct	11941 Dec 05 17:51	8° ≯ ¹28'48		direct	11942 Nov 16 03:20	18°M35'11	
morning max el	11941 Dec 16 13:07	13°×736'49	20°25'29	morning max el	11942 Nov 28 10:56	24°M26'48	21°59'30
asc. node	11941 Dec 20 13:07	18° ∡ 05'31	20 23 27	morning max ci	11942 Dec 03 10:19	0° x ⁷	21 37 30
asc. node	11941 Dec 28 03:57	0°る		asc. node	11942 Dec 03 10:19 11942 Dec 07 10:07	5° ∡ ¹40'08	
morning set	11942 Jan 04 04:10	13° る 42'42		morning set	11942 Dec 19 14:23	28° ₹ '28'23	
	11040 1 11 17 10	20071444	1010100		11942 Dec 20 07:46	0°₹	
superior conj	11942 Jan 11 17:19		1°19'08				
minimum elong	11942 Jan 11 19:55	29° る 27'47	1°19'35	superior conj	11942 Dec 26 17:03	13° る 34'29	1°32'04
	11942 Jan 12 02:17	0° ≈		minimum elong	11942 Dec 26 18:43	13° る 43'15	1°32'46
max. Earth dist.	11942 Jan 17 03:52	9° ≈ 58'44	1.36357 AU	max. Earth dist.	11942 Dec 30 16:51	21° る 50'10	1.34456 AU
evening rise	11942 Jan 20 23:42	17° ≈ 08'37			11943 Jan 03 19:52	0° ≈	
desc. node	11942 Jan 22 18:15	20° ≈ 21′05		evening rise	11943 Jan 04 00:32	0° ≈ 22'25	
	11942 Jan 28 08:19	0°) €		desc. node	11943 Jan 09 15:04	10° ≈ 44′25	
	11942 Feb 17 22:05	0 ° Υ			11943 Jan 21 10:17	0° ∀	
evening max el	11942 Feb 25 12:08	8° Y 27'39	25°57'51	evening max el	11943 Feb 08 01:36	22° ∺ 09'26	26°53'25
retrograde	11942 Mar 10 02:33	15° Ƴ 40′00		retrograde	11943 Feb 21 07:34	29°) 33′11	
evening set	11942 Mar 16 05:04	13° Ƴ 10′34		evening set	11943 Feb 27 20:20	27°) €00'02	
asc. node	11942 Mar 18 10:52	11° Y ′00'21		min. Earth dist.	11943 Mar 03 20:14	23° ∺ 03'48	0.65866 AU
min. Earth dist.	11942 Mar 20 10:36	8° Y 40'25	0.67211 AU	asc. node	11943 Mar 05 08:14	21°) 19′50	
inferior conj	11942 Mar 22 00:21	6° Y '42'19	1°06'53	inferior conj	11943 Mar 05 22:04	20°) (39'30	0°11'12
minimum elong	11942 Mar 21 22:48	6° Υ 47'10	1°06'18	minimum elong	11943 Mar 05 21:45	20°) 40'25	0°11'17
morning rise	11942 Mar 27 17:12	0° Υ 54'31	0	transit middle	11943 Mar 05 21:45	20°\(\frac{40}{25}\)	0°11'17
	11942 Mar 29 22:27	30° ₹		transit begin	11943 Mar 05 19:39	20° X 46'32	U 1111
direct	11942 Mar 30 23:31	29° ¥ 53′50		transit end	11943 Mar 05 23:51	20° X 34'19	
direct	11942 Mar 30 23.31 11942 Apr 01 00:55	29 χ 33 30		morning rise	11943 Mar 12 00:30	20 ★34 19 15°¥03'21	
morning may al	_	3° Υ 30'19	18°46'51	direct		13° X 03'21 14° X 19'09	
morning max el	11942 Apr 06 16:03		10 40 31		11943 Mar 14 20:44		10000157
desc. node	11942 Apr 20 19:55	22° Y 47'00		morning max el	11943 Mar 21 06:14	17°) (41'30	18°09'56
	11942 Apr 25 11:48	9° 8			11943 Mar 30 12:46	0° Υ	

desc. node	11943 Apr 07 16:33	12° Y ′59'33		asc. node	11944 Feb 20 05:34	1°) 37′20	
morning set	11943 Apr 07 10:33	12 γ 39 33 15° γ 23'48		asc. noue	11944 Feb 20 05:34 11944 Feb 22 06:15	1)(3/20 30°R≈	
morning set	11943 Apr 18 07:00	0° 8		morning rise	11944 Feb 24 01:38	29°≈00'18	
	11945 Apr 10 07.00	v O		direct	11944 Feb 26 13:24	28°≈28'57	
superior conj	11943 Apr 24 06:52	9° 8 27'19	-1°45'31		11944 Mar 01 19:57	0° ₩	
minimum elong	11943 Apr 23 21:32	8° 8 50'42		morning max el	11944 Mar 03 23:33	1°) 48′23	17°50'06
max. Earth dist.	11943 Apr 26 09:37		1.45699 AU	morning set	11944 Mar 20 21:10	27°) (14'47	
	11943 May 07 11:14	0°II		C	11944 Mar 22 12:20	0° Υ	
evening rise	11943 May 10 08:55	4° Ⅱ 30'37		desc. node	11944 Mar 24 13:11	3° Y 25'16	
greatest brilliancy	11943 May 22 07:25	22° I 53'21	-0.7m				
	11943 May 27 03:59	0ංම		superior conj	11944 Apr 03 03:23	19° Y °12′02	-1°08'29
asc. node	11943 Jun 01 05:41	6° 9 37'00		minimum elong	11944 Apr 02 20:11	18° Y 42'59	1°07'45
evening max el	11943 Jun 03 06:52	8°950'59	19°16'20	max. Earth dist.	11944 Apr 08 04:48	27° Y °16′17	1.45072 AU
retrograde	11943 Jun 10 07:07	12° 5 46'28			11944 Apr 09 22:22	9° 8	
evening set	11943 Jun 13 20:34	11° 5 32'39		evening rise	11944 Apr 18 21:34	13° 8 53'59	
inferior conj	11943 Jun 19 06:46	5° 5 42'36	3°12'45		11944 Apr 29 13:09	Π °0	
minimum elong	11943 Jun 19 07:28	5°5640'18	3°11'53	evening max el	11944 May 16 10:22	22° Ⅱ 36'31	20°13'25
min. Earth dist.	11943 Jun 20 16:55	3° © 51'28	0.66855 AU	asc. node	11944 May 18 02:51	24° Ⅱ 11'21	
	11943 Jun 24 00:45	30° Ŗ Ⅱ		retrograde	11944 May 24 05:48	27° Ⅱ 06′01	
morning rise	11943 Jun 24 17:51	29° Ⅱ 19'59		evening set	11944 May 28 04:41	25° Ⅱ 35'59	
direct	11943 Jun 30 20:48	26° Ⅱ 39'37		inferior conj	11944 Jun 02 11:43	19° Ⅲ 32'54	
desc. node	11943 Jul 04 16:57	27° Ⅱ 32'05		minimum elong	11944 Jun 02 11:21	19° Ⅱ 34'10	3°13'34
	11943 Jul 08 18:26	0° ©		min. Earth dist.	11944 Jun 03 07:37	18° Ⅲ 25'06	0.67968 AU
morning max el	11943 Jul 13 10:29	4° © 11'00	25°55'14	morning rise	11944 Jun 07 17:42	13° Ⅱ 12'44	
	11943 Aug 02 03:51	0 \circ Ω		direct	11944 Jun 13 09:17	10° ∏ 42'25	
morning set	11943 Aug 18 10:56	27° Ω 20'39		desc. node	11944 Jun 20 14:03	13° ∏ 45'30	
	11943 Aug 19 21:19	0° m)		morning max el	11944 Jun 24 20:22	17° Ⅲ 34'58	24°31'05
max. Earth dist.	11943 Aug 22 05:13	4° Mp 24'43	1.35438 AU		11944 Jul 05 05:23	0° ©	
	11042 4 27 20 20	1.50m. 2012.1	0000147		11944 Jul 25 04:28	0° N	
superior conj	11943 Aug 27 20:29	15° Mp 32'31		morning set	11944 Jul 30 13:28	9° Ω 08'44	1 27506 ATT
minimum elong	11943 Aug 27 20:43	15° Mp 33'44	0°04'01	max. Earth dist.	11944 Aug 03 03:55	15° Ω 33'05	1.37596 AU
behind sun begin behind sun end	11943 Aug 27 14:47	15° Mp 03'38		aumariar aani	11044 Aug 10 02:47	28° Ω 38'58	0026140
asc. node	11943 Aug 28 02:40 11943 Aug 28 05:53	16° Mp 03'53 16° Mp 20'13		superior conj minimum elong	11944 Aug 10 03:47 11944 Aug 10 06:15	$28^{\circ}\Omega50'54$	
asc. node	11943 Aug 28 03:33 11943 Sep 03 20:47	0° ⊽		minimum ciong	11944 Aug 10 00:13	0°m)	0 30 30
evening rise	11943 Sep 03 20.47 11943 Sep 04 15:26	0 == 1° £ 36'18		asc. node	11944 Aug 10 20:30 11944 Aug 14 02:36	6° Mg 23'43	
evening rise	11943 Sep 04 13:20 11943 Sep 21 08:41	0°ML		evening rise	11944 Aug 18 17:59	15° m 39'20	
evening max el	11943 Sep 22 20:03	1°MJ33'38	20°21'54	evening rise	11944 Aug 26 06:21	ე° ი	
desc. node	11943 Sep 30 14:03	6°M32'41	20 21 54	evening max el	11944 Sep 04 10:39	0 — 12° ≏ 59'23	19°16'17
retrograde	11943 Oct 03 18:43	6°M59'51		retrograde	11944 Sep 13 16:56	17° Ω 36'27	1, 101,
evening set	11943 Oct 05 20:19	6°M49'04		evening set	11944 Sep 15 13:13	17° Ω 26'14	
inferior conj	11943 Oct 14 21:13	2°M52'24	-4°12'18	desc. node	11944 Sep 16 11:30	17° ≏ 13'44	
minimum elong	11943 Oct 14 11:17	3°ML06'58	4°08'57	inferior conj	11944 Sep 24 03:07	13° ≏ 16'39	-2°23'24
min. Earth dist.	11943 Oct 16 07:09	2°M02'39	0.54775 AU	minimum elong	11944 Sep 23 20:51	13° ≏ 27'02	2°20'54
	11943 Oct 20 02:08	30° ₹ Ω		min. Earth dist.	11944 Sep 26 18:44	11° ≏ 31'41	0.55858 AU
morning rise	11943 Oct 23 01:33	28° ≏ 49'01		morning rise	11944 Oct 02 01:50	8° ≏ 40'59	
direct	11943 Oct 27 12:34	28° ჲ 06'06		direct	11944 Oct 07 08:49	7° ≏ 36'56	
	11943 Nov 03 15:53	0° M		morning max el	11944 Oct 21 10:17	14° ≏ 44'20	25°30'54
morning max el	11943 Nov 09 23:21	4° M ₃39'39	23°46'30		11944 Nov 02 13:40	0° M	
asc. node	11943 Nov 24 07:02	24°ML02'11		asc. node	11944 Nov 10 03:53	12°M59'46	
	11943 Nov 27 13:31	0° ∡ ¹		morning set	11944 Nov 17 13:38	27°M58'01	
morning set	11943 Dec 04 02:08	13° ∡ 15'14			11944 Nov 18 12:16	0° ∡	
superior conj	11943 Dec 10 23:02	28° √ 10'01	1°38'14	superior conj	11944 Nov 24 08:48	12° ₹ 53'40	1°38'08
minimum elong	11943 Dec 10 23:33	28° ∡ 12'54	1°39'02	minimum elong	11944 Nov 24 08:13	12° ₹ 50'28	1°38'53
	11943 Dec 11 19:22	0°る		max. Earth dist.	11944 Nov 25 17:36	15° ₹ 54'32	1.31941 AU
max. Earth dist.	11943 Dec 13 13:40	3°る46'42	1.32961 AU	evening rise	11944 Dec 01 11:37	28° ∡ 14'23	
evening rise	11943 Dec 18 13:33	14°る07'12		d 1	11944 Dec 02 08:07	0°る	
daga = -1-	11943 Dec 26 23:52	0°≈ 0°≈≈52'0°		desc. node	11944 Dec 13 09:00	20°る40'07	
desc. node	11943 Dec 27 11:59	0°≈53'08		ovonina ma1	11944 Dec 19 05:05	0°≈ 18°226'21	27920152
ovening mar1	11944 Jan 16 09:03	0° \ 5° \ 33'24	27026110	evening max el	11945 Jan 03 00:37	18°≈26'21	27°29'53
evening max el retrograde	11944 Jan 21 14:25 11944 Feb 04 06:16	12° H 58'28	21 2019	retrograde evening set	11945 Jan 16 21:26 11945 Jan 23 20:38	25°≈45'30 23°≈26'27	
evening set	11944 Feb 04 06:16 11944 Feb 11 02:28	12° X 38°28 10° X 28'21		min. Earth dist.	11945 Jan 23 20:38 11945 Jan 27 14:21	23°≈2627 20°≈28'09	0.62202 AU
min. Earth dist.	11944 Feb 11 02.28 11944 Feb 14 22:07	7° ∺ 03′27	0.64170 AU	inferior conj	11945 Jan 30 13:06	20 ≈28 09 17°≈42'34	
inferior conj	11944 Feb 17 11:21	4° ∺ 22′29		minimum elong	11945 Jan 30 17:29	17 ≈42 34 17°≈32'17	
minimum elong	11944 Feb 17 13:02	4° X 18'01	0°53'17	asc. node	11945 Feb 06 02:53	17 ≈ 52 17 12° ≈ 50'15	2 0025
	17200 17 15.02	. ,(1001	3 33 17	200. 11000	-17.5100 00 02.33	12 . 4.50 15	

morning rise direct morning max el morning set desc. node	11945 Feb 06 16:55 11945 Feb 08 22:25 11945 Feb 15 16:51 11945 Feb 25 17:35 11945 Mar 03 12:57 11945 Mar 11 09:48	12°≈37'18 12°≈14'59 15°≈41'24 0°₩ 10°₩10'42 23°₩59'07	17°47'55	morning rise direct asc. node morning max el morning set	11946 Jan 20 17:31 11946 Jan 22 19:48 11946 Jan 24 00:09 11946 Jan 30 06:43 11946 Jan 31 01:37 11946 Feb 14 21:19 11946 Feb 18 04:25	25°る45'34 25°る28'42 25°る34'15 29°る11'33 0°≈ 23°≈52'25 0°米	18°04'30
superior conj minimum elong	11945 Mar 14 23:03 11945 Mar 14 20:26 11945 Mar 14 22:28	0° Υ	0°26'34	superior conj minimum elong	11946 Feb 24 18:51 11946 Feb 24 19:47	12° 米 00′19 12° 米 04′30	0°11'34 0°11'45
max. Earth dist. evening rise	11945 Mar 21 21:25 11945 Mar 29 11:44 11945 Apr 02 17:26 11945 Apr 23 18:48	11°Y28'38 23°Y29'41 0°B 0°II	1.43778 AU	behind sun begin behind sun end desc. node max. Earth dist.	11946 Feb 24 14:29 11946 Feb 25 01:06 11946 Feb 26 06:26 11946 Mar 04 09:51	11°¥40'53 12°¥28'05 14°¥37'30 25°¥09'05	1.41953 AU
evening max el asc. node retrograde	11945 Apr 29 08:14 11945 May 05 00:06 11945 May 08 04:17	6°П23'01 10°П45'50 11°П33'38	21°23'09	evening rise	11946 Mar 07 08:17 11946 Mar 09 16:40 11946 Mar 27 01:12	0°Υ 3°Υ48'14 0°႘	,
evening set inferior conj minimum elong	11945 May 12 13:30 11945 May 17 19:54 11945 May 17 18:38	9°П47'30 3°П33'06 3°П37'34	3°04'30 3°03'38	evening max el asc. node retrograde	11946 Apr 12 01:20 11946 Apr 21 21:23 11946 Apr 22 01:01	20°810'28 26°804'08 26°804'14	22°41'11
min. Earth dist. morning rise direct	11945 May 18 02:19 11945 May 20 11:19 11945 May 22 23:32 11945 May 28 02:17	3°耳10'48 30°R と 27° と 17'41 25° と 03'58	0.68610 AU	evening set inferior conj minimum elong min. Earth dist.	11946 Apr 26 21:22 11946 May 02 05:16 11946 May 02 03:21 11946 May 01 22:52	24°802'57 17°839'32 17°846'10 18°801'46	2°44'16 2°43'20 0.68784 AU
desc. node morning max el	11945 Jun 06 03:29 11945 Jun 07 11:02 11945 Jun 07 06:44	0°П 1°П17'23 1°П06'29	23°01'23	morning rise direct morning max el	11946 May 07 09:13 11946 May 11 22:43 11946 May 20 20:43	11° 8 30'13 9° 8 36'51 14° 8 47'22	21°34'52
morning set max. Earth dist.	11945 Jun 29 02:53 11945 Jul 11 17:15 11945 Jul 16 01:36	0°© 19°©54'27 27°©14'58	1.39916 AU	desc. node morning set	11946 May 25 07:56 11946 Jun 02 02:18 11946 Jun 21 19:11	19° 8 46'26 0° П 29° П 30'55	
superior conj	11945 Jul 17 15:46 11945 Jul 23 20:04	0° Ω 11° Ω 02'43		max. Earth dist.	11946 Jun 22 02:30 11946 Jun 28 04:04	0°© 9°©48'49	1.42120 AU
minimum elong asc. node evening rise	11945 Jul 24 01:05 11945 Jul 31 23:22 11945 Aug 02 12:17	11° Ω 25'46 26° Ω 21'17 29° Ω 17'52	1°10'48	superior conj minimum elong	11946 Jul 05 16:44 11946 Jul 05 23:29 11946 Jul 09 22:29	22°S32'41 23°S02'00 0°Ω	
evening max el retrograde	11945 Aug 02 21:06 11945 Aug 18 12:53 11945 Aug 26 09:44	0° My 25° My 10'18 29° My 07'43	18°32'08	evening rise asc. node	11946 Jul 16 18:26 11946 Jul 18 20:11 11946 Jul 26 20:48	12° Ω 21'29 16° Ω 08'08 0° m	10000120
evening set desc. node inferior conj minimum elong	11945 Aug 28 10:07 11945 Sep 03 08:55 11945 Sep 05 05:46 11945 Sep 05 04:23	28° My 52'56 25° My 47'56 24° My 23'21 24° My 26'01		evening max el retrograde evening set inferior coni	11946 Aug 01 22:42 11946 Aug 08 21:06 11946 Aug 11 04:45 11946 Aug 18 05:47	7° m/56'35 11° m/28'27 11° m/05'12 6° m/14'58	18°08'30 0°54'09
min. Earth dist. morning rise direct	11945 Sep 08 11:50 11945 Sep 12 19:12 11945 Sep 18 19:00	21° m/53'11 19° m/10'16 17° m/39'37	0.57646 AU	minimum elong desc. node min. Earth dist.	11946 Aug 18 07:27 11946 Aug 21 06:20 11946 Aug 21 12:38	6° m, 11'13 3° m, 31'39 3° m, 18'02	0°53'09 0.59832 AU
morning max el	11945 Oct 03 02:33 11945 Oct 07 13:25 11945 Oct 26 19:13	25° m 12'35 0° Ω 0° M	26°54'58	morning rise	11946 Aug 25 06:59 11946 Aug 26 04:01 11946 Aug 31 18:18	0° m 29'52 30° RΩ 28° Ω 30'57	
asc. node morning set	11945 Oct 28 00:41 11945 Nov 01 23:15	2°M23'32 12°M32'30		morning max el	11946 Sep 06 15:04 11946 Sep 15 02:21 11946 Oct 02 20:05	0° m) 6° m) 22'39 0° <u>Ω</u>	27°45'30
superior conj minimum elong max. Earth dist.	11945 Nov 08 20:21 11945 Nov 08 18:52 11945 Nov 09 01:55			asc. node morning set	11946 Oct 14 21:26 11946 Oct 17 05:08 11946 Oct 18 16:29	22° £ 05'31 26° £ 52'54 0° M	1 21275 111
evening rise	11945 Nov 09 21:34 11945 Nov 15 16:09 11945 Nov 24 10:53	0°♂ 12°♂37'19 0°♂ 9°♂56'40		max. Earth dist.	11946 Oct 23 10:45 11946 Oct 24 07:47	10°M24'14 12°M21'12	1.31375 AU 1°20'34
desc. node evening max el retrograde	11945 Nov 30 06:06 11945 Dec 15 14:38 11945 Dec 16 05:27 11945 Dec 30 03:43	0°≈ 0°≈35'35 7°≈46'05	26°59'37	minimum elong evening rise desc. node	11946 Oct 24 05:42 11946 Oct 31 00:49 11946 Nov 01 08:55 11946 Nov 17 03:16	12°M09'34 27°M08'56 0° ✓ 28° ✓ 30'11	1°20'47
evening set min. Earth dist. inferior conj	11945 Jan 05 23:18 11946 Jan 09 19:47 11946 Jan 12 23:50	5°≈46'31 3°≈06'22 0°≈30'37	0.60082 AU	evening max el retrograde	11946 Nov 17 03:16 11946 Nov 18 04:02 11946 Nov 28 02:15 11946 Dec 11 24:00	0°る 11°る52'11 18°る54'31	25°55'41
minimum elong	11946 Jan 13 06:59 11946 Jan 13 14:47	0°≈15'55 30°Ŗੋੋੋ		evening set min. Earth dist.	11946 Dec 11 24.00 11946 Dec 18 06:09 11946 Dec 22 14:57	17°る22'27 14°る46'27	0.57980 AU

inferior conj minimum elong	11946 Dec 25 16:03 11946 Dec 26 00:26	12° ට 36'34 12°ට21'37		minimum elong morning rise	11947 Dec 06 17:04 11947 Dec 14 22:59	23° х 45′23 19° х 52′18	5°36'11
morning rise	11947 Jan 02 21:21	8° ප 14'05		direct	11947 Dec 17 10:43	19° ∡ ³35'47	
direct	11947 Jan 05 00:58	7° る 59'16		morning max el	11947 Dec 27 08:57	24° ∡ °20'40	19°40'57
asc. node	11947 Jan 10 21:20	9° ප 56'26		asc. node	11947 Dec 28 18:28	25° ∡ ¹46'31	
morning max el	11947 Jan 13 13:24	12° る 08'20	18°41'35		11948 Jan 01 04:11	ರ°0	
	11947 Jan 25 11:52	0° ≈		morning set	11948 Jan 13 20:49	22° る 36'37	
morning set	11947 Jan 29 17:13	8° ≈ 04'50			11948 Jan 17 12:22	0° ≈	
superior conj	11947 Feb 07 10:57 11947 Feb 07 13:36	24°≈54'45 25°≈07'09	0°43'47 0°43'54	superior conj minimum elong	11948 Jan 21 18:32 11948 Jan 21 21:25	8°≈31'35 8°≈45'48	1°08'24 1°08'42
minimum elong	11947 Feb 07 13.36 11947 Feb 10 04:50	23 ≈ 07 09 0° ∺	0 43 34	max. Earth dist.	11948 Jan 27 23:31	8 ≈43 48 20°≈24'47	1.37572 AU
desc. node	11947 Feb 13 03:05	5° ₩ 16'56		desc. node	11948 Jan 30 23:46	25°≈53'30	1.57572 AO
max. Earth dist.	11947 Feb 14 17:36	8° ₩ 06'53	1.39799 AU	evening rise	11948 Jan 31 16:55	27°≈09'53	
evening rise	11947 Feb 18 18:25	15° ¥ 02'14	1.557757110	evening rise	11948 Feb 02 07:38	0° ∀	
Č	11947 Feb 28 01:21	0° Y			11948 Feb 21 12:29	0° Υ	
	11947 Mar 21 22:00	0°8		evening max el	11948 Mar 07 04:54	17° Ƴ 51'11	25°18'35
evening max el	11947 Mar 25 15:32	4° 8 00'06	24°01'53	retrograde	11948 Mar 19 08:15	24° Y ′52'58	
retrograde	11947 Apr 05 18:43	10° 8 32'55		evening set	11948 Mar 25 04:01	22° Y 28'01	
asc. node	11947 Apr 08 18:42	9° 8 51'35		asc. node	11948 Mar 25 16:03	22° Y 01'30	
evening set	11947 Apr 11 02:45	8° 8 18'19		min. Earth dist.	11948 Mar 29 13:11	17° Ƴ 37'36	0.67794 AU
min. Earth dist.	11947 Apr 15 19:13	2° 8 52'43		inferior conj	11948 Mar 30 19:58	15° Ƴ 57'43	1°34'22
inferior conj	11947 Apr 16 13:55	1° 8 49'15		minimum elong	11948 Mar 30 18:01	16° Y ′04'03	1°33'34
minimum elong	11947 Apr 16 11:45	1° 8 56'36	2°13'16	morning rise	11948 Apr 05 08:25	10° Y ′04′02	
	11947 Apr 17 22:33	30° ₹ Υ		direct	11948 Apr 08 21:03	8° Y ′52'35	
morning rise	11947 Apr 21 20:49	25° Y 47'04		morning max el	11948 Apr 15 21:23	12° Y 43′24	19°15'36
direct	11947 Apr 25 21:25	24°Υ15'09	20010116	desc. node	11948 Apr 28 01:26	28° Y 38'16	0.7
morning max el	11947 May 03 17:15 11947 May 05 00:05	28° Y 40'13 0° と	20°18'16	greatest brilliancy	11948 Apr 28 17:42 11948 Apr 28 23:27	29° Ƴ 38'34 0° ႘	-0.7m
desc. node	11947 May 12 04:44	8° 8 57'22		morning set	11948 May 10 01:32	16° 8 53'50	
desc. Hode	11947 May 12 04:44 11947 May 26 14:53	0°П		morning set	11948 May 18 12:20	0°Ⅱ	
morning set	11947 Jun 01 00:04	8° Ⅱ 14'06		max. Earth dist.	11948 May 23 03:41		1.45187 AU
max. Earth dist.	11947 Jun 10 12:58	23° I I13'06	1.43941 AU				
	11947 Jun 14 17:40	0° ©		superior conj	11948 May 26 12:13	12° Ⅲ 33'47	-2°13'19
				minimum elong	11948 May 26 11:33	12° Ⅲ 31′09	2°14'03
superior conj	11947 Jun 16 14:04	3°502'04	-2°05'26		11948 Jun 06 07:57	0 \circ \odot	
minimum elong	11947 Jun 16 19:29	3° 5 24'21	2°05'58	evening rise	11948 Jun 09 23:09	5° 9 58'29	
evening rise	11947 Jun 29 07:44	24° © 39'02		asc. node	11948 Jun 21 14:01	24° 5 49'51	
	11947 Jul 02 09:45	0 \circ Ω			11948 Jun 25 03:49	0 $^{\circ}$ Ω	
asc. node	11947 Jul 05 17:04	5° Ω 39'52		evening max el	11948 Jun 29 02:05		18°18'32
evening max el	11947 Jul 16 12:14	21°Ω09'20	18°04'15	retrograde	11948 Jul 05 11:09	8° Ω 03'02	
retrograde	11947 Jul 22 23:05	24° Ω 30'14		evening set	11948 Jul 08 11:06	7° Ω 13'57	204140
evening set	11947 Jul 25 14:46	23° Ω 55'16	1050101	inferior conj	11948 Jul 14 08:37	1° Ω 47'50	
inferior conj minimum elong	11947 Aug 01 00:08 11947 Aug 01 02:46	18° Ω 46'10 18° Ω 39'21	1°59'01 1°57'40	minimum elong	11948 Jul 14 10:55 11948 Jul 15 21:54	1° Ω 41'13 30°R≌	2°40'28
min. Earth dist.	11947 Aug 01 02.40 11947 Aug 03 22:42	$15^{\circ}\Omega 44'54$	0.62111 AU	min. Earth dist.	11948 Jul 16 18:05	30 k≌ 29°©02'51	0.64229 AU
morning rise	11947 Aug 03 22:42 11947 Aug 07 12:28	13° Ω 39'36	0.02111 AU	morning rise	11948 Jul 20 09:19	25°\$29'50	0.04229 AU
desc. node	11947 Aug 08 03:40	12°Ω13'45		desc. node	11948 Jul 25 00:57	23° © 05'17	
direct	11947 Aug 14 04:51	10°Ω16'33		direct	11948 Jul 27 00:25	22° © 51'47	
morning max el	11947 Aug 28 08:27	18° Ω 18'27	27°57'11		11948 Aug 08 20:53	0°N	
C	11947 Sep 07 04:21	0° m/y		morning max el	11948 Aug 09 18:07	0° Ω 52'28	27°32'14
	11947 Sep 25 16:10	0∘ ⊽			11948 Aug 31 06:48	0° ™	
morning set	11947 Oct 01 05:17	10° ≙ 54'07		morning set	11948 Sep 13 21:13	24° m 29'42	
asc. node	11947 Oct 01 18:09	12° ჲ 00'08			11948 Sep 16 14:59	0∘ ⊽	
max. Earth dist.	11947 Oct 06 16:10	22° £ 25'16	1.31848 AU	asc. node max. Earth dist.	11948 Sep 17 14:50 11948 Sep 18 14:30	2° ჲ 02'29 4° ჲ 05'21	1.32844 AU
superior conj	11947 Oct 08 17:17	26° ჲ 53'29	1°03'29		•		
minimum elong	11947 Oct 08 15:02	26° ≏ 41'10	1°03'24	superior conj	11948 Sep 21 22:50	11° ≏ 10'52	0°41'08
-	11947 Oct 10 03:09	0° M		minimum elong	11948 Sep 21 21:00	11° ≏ 01'02	0°40'52
evening rise	11947 Oct 15 11:42	11°M44'13		evening rise	11948 Sep 28 22:57	26° ≙ 18′07	
	11947 Oct 24 14:59	0° ∡ ¹			11948 Sep 30 16:55	0° M	
desc. node	11947 Nov 04 00:30	16° ∡ 04'15			11948 Oct 18 18:04	0° ∡ ¹	
evening max el	11947 Nov 09 15:12	22° x ⁷ 21'04	24°25'35	desc. node	11948 Oct 20 21:48	2° √ 16'46	2007.00
retrograde	11947 Nov 23 08:32	29° 🖈 12'49		evening max el	11948 Oct 21 01:46	2° 🗷 26'28	22°44'25
evening set	11947 Nov 28 13:16	28° ₹ 13'09	0.56162.411	retrograde	11948 Nov 03 04:11	8° ₹ 57'02	
min. Earth dist.	11947 Dec 04 02:34	25°×'22'49 23°×'53'47	0.56163 AU 5°37'37	evening set	11948 Nov 06 22:48	8° ҂ 25'57 5° ҂ 03'10	0.54041 417
inferior conj	11947 Dec 06 11:41	43 X.334/	-3 3131	min. Earth dist.	11948 Nov 14 10:08	2 ×.03.10	0.54941 AU

: <i>£</i> :	11040 N 15 12.50	40.704150	5940120		11040 0-4 17 02.56	100 m 22105	
inferior conj	11948 Nov 15 12:58	4° ×724'58		evening set	11949 Oct 17 03:56	18°M22'05	5002140
minimum elong	11948 Nov 15 10:24	4° ∡ °28'38	5°48'30	inferior conj	11949 Oct 26 04:52	14°M27'34	
morning rise	11948 Nov 23 23:29	0° ₹ ¹36'36		minimum elong	11949 Oct 25 19:31	14°M40'43	5°00'14
direct	11948 Nov 27 03:08	0° ⋌ 13'42		min. Earth dist.	11949 Oct 26 16:50	14°M10'41	0.54566 AU
morning max el	11948 Dec 08 14:34	5° ∡ ¹40'47	21°03'05	morning rise	11949 Nov 03 11:39	10°M36'11	
asc. node	11948 Dec 14 15:31	12° ∡ ⁴48'18		direct	11949 Nov 07 11:14	10°M02'06	
	11948 Dec 24 14:55	0°ಕ		morning max el	11949 Nov 20 07:23	16°M11'45	22°44'06
morning set	11948 Dec 28 05:21	7° る 19'52			11949 Dec 01 01:25	0° ∡ ¹	
				asc. node	11949 Dec 01 12:30	0° ∡ ¹45′01	
superior conj	11949 Jan 04 13:26	22° る 39'12	1°25'28	morning set	11949 Dec 12 16:29	22° ₮ 07'07	
minimum elong	11949 Jan 04 15:41	22° る 50'46	1°26'02		11949 Dec 16 08:45	8°0	
	11949 Jan 08 04:21	0° ≈					
max. Earth dist.	11949 Jan 09 09:00	2° ≈ 21'40	1.35509 AU	superior conj	11949 Dec 19 16:10	7° る 06'43	1°35'28
evening rise	11949 Jan 13 09:18	10° ≈ 03'19		minimum elong	11949 Dec 19 17:22	7° る 13'06	1°36'14
desc. node	11949 Jan 16 20:33	16° ≈ 23'33		max. Earth dist.	11949 Dec 23 01:34	14° る 15'28	1.33775 AU
	11949 Jan 24 21:29	0° ∀		evening rise	11949 Dec 27 15:47	23° る 31'42	
	11949 Feb 16 02:53	0° Υ			11949 Dec 31 00:59	0° ≈	
evening max el	11949 Feb 17 18:36	1° Υ 39'50	26°23'52	desc. node	11950 Jan 03 17:25	6° ≈ 41'34	
retrograde	11949 Mar 02 16:31	8° Υ 58'14	20 23 32	desc. node	11950 Jan 18 12:37	0°) €	
evening set	11949 Mar 08 23:29	6° Υ 26'50		evening max el	11950 Jan 31 08:10	15° ¥ 16'08	27010/21
=	11949 Mar 12 13:23	2° Υ 49'59		_	11950 Feb 13 18:44	22° ¥ 40'31	2/ 1031
asc. node			0.66604.444	retrograde			
min. Earth dist.	11949 Mar 13 02:36	2°Υ11'00	0.66684 AU	evening set	11950 Feb 20 11:08	20°) €08'00	0.65100.177
inferior conj	11949 Mar 14 21:25	0° Υ 01'01	0°44'33	min. Earth dist.	11950 Feb 24 09:10	16° ¥ 25'26	0.65193 AU
minimum elong	11949 Mar 14 20:18	0° Υ 04'25	0°44'12	inferior conj	11950 Feb 26 15:53	13°) € 53'04	
	11949 Mar 14 21:45	30° ₹		minimum elong	11950 Feb 26 16:20	13°) 51′51	
morning rise	11949 Mar 20 18:00	24° ∺ 17'35		transit middle	11950 Feb 26 16:20	13° ¥ 51′51	0°14'55
direct	11949 Mar 23 19:51	23° ¥ 24'14		transit begin	11950 Feb 26 15:14	13° ¥ 54'54	
morning max el	11949 Mar 30 08:26	26° ¥ 53′23	18°29'01	transit end	11950 Feb 26 17:25	13°) (48′47	
	11949 Apr 02 03:49	0 ° Υ		asc. node	11950 Feb 27 10:45	13°) €00'52	
desc. node	11949 Apr 14 22:07	18° Ƴ 41′20		morning rise	11950 Mar 04 23:05	8° 升 22′24	
morning set	11949 Apr 19 21:48	26° Ƴ 33'12		direct	11950 Mar 07 15:38	7°) 43′57	
	11949 Apr 22 02:12	$_{0\circ}$ 8		morning max el	11950 Mar 14 00:16	11° ∺ 03′26	17°59'21
					11950 Mar 27 07:12	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	11949 May 05 20:10	21° 8 34'01	-2°01'09	morning set	11950 Mar 31 22:47	7° Ƴ 38'03	
minimum elong	11949 May 05 12:27	21° 8 03'54	2°01'17	desc. node	11950 Apr 01 18:47	9° Y ′00'12	
max. Earth dist.	11949 May 05 22:32	21° 8 43'16	1.45733 AU		11950 Apr 14 18:43	0° ႘	
	11949 May 11 05:36	0°II			1		
evening rise	11949 May 21 14:14	16° Ⅱ 17'40		superior conj	11950 Apr 15 07:13	0° 8 49'28	-1°30'55
evening rise	11949 May 30 06:51	0°99		minimum elong	11950 Apr 14 22:09	0° 8 13'37	
greatest brilliancy	11949 May 30 15:03	0°931'57	-0.8m	max. Earth dist.	11950 Apr 18 18:50	6° 8 18'50	1.45525 AU
asc. node	11949 Jun 08 11:02	13°930'38	-0.0111	evening rise	11950 May 01 09:15	25° 8 52'16	1.43323 AO
		18°9519'04	18°50'29	evening rise	11950 May 04 01:43	0° Ⅱ	
evening max el	11949 Jun 12 13:24		16 30 29		•	0 H 16°H45'22	0.7
retrograde	11949 Jun 19 05:38	21°959'07		greatest brilliancy	11950 May 15 03:30		-0./m
evening set	11949 Jun 22 14:06	20°954'25	2005151	,	11950 May 24 22:26	0.02	
inferior conj	11949 Jun 28 03:28	15°9512'41	3°05'51	asc. node	11950 May 26 08:08	1°532'40	10000150
minimum elong	11949 Jun 28 04:48	15°9508'27	3°04'52	evening max el	11950 May 26 20:05	2°503'20	19°38'53
min. Earth dist.	11949 Jun 29 22:05	12° © 59'15	0.66018 AU	retrograde	11950 Jun 03 03:32	6°5511'56	
morning rise	11949 Jul 03 18:47	8°950'33		evening set	11950 Jun 06 21:00	4° © 51'00	
direct	11949 Jul 10 03:18	6° ≤ 08'13			11950 Jun 11 09:52	30°RⅡ	
desc. node	11949 Jul 11 22:11	6° © 19'31		inferior conj	11950 Jun 12 05:29	28° Ⅱ 55'06	
morning max el	11949 Jul 23 04:56	13° © 53'55	26°37'10	minimum elong	11950 Jun 12 05:44		3°14'07
		$0^{\circ}\Omega$		min. Earth dist.	11050 T 10 00 01	27° Ⅱ 22'13	0.67383 AU
	11949 Aug 05 06:26	0 06		iiiii. Lattii dist.	11950 Jun 13 09:24		
	11949 Aug 05 06:26 11949 Aug 23 23:57	0° m)		morning rise	11950 Jun 13 09:24 11950 Jun 17 14:05	22° I I33'23	
morning set	•						
morning set max. Earth dist.	11949 Aug 23 23:57	0° m/	1.34359 AU	morning rise	11950 Jun 17 14:05	22° Ⅲ 33'23	
•	11949 Aug 23 23:57 11949 Aug 28 01:50	0° т 7° т 31'28	1.34359 AU	morning rise direct	11950 Jun 17 14:05 11950 Jun 23 12:24	22° Ⅲ 33'23 19° Ⅲ 56'37	25°20'54
max. Earth dist.	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07	0° m/ 7° m/31'28 15° m/22'40	1.34359 AU	morning rise direct desc. node	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20	22° Д 33'23 19° Д 56'37 21° Д 35'52	25°20'54
max. Earth dist.	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07	0° m/ 7° m/31'28 15° m/22'40	1.34359 AU 0°13'54	morning rise direct desc. node	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25	22°Д33'23 19°Д56'37 21°Д35'52 27°Д12'37	25°20'54
max. Earth dist. asc. node	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30	0° m, 7° m,31'28 15° m,22'40 22° m,08'12		morning rise direct desc. node	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02	22°∏33'23 19°∏56'37 21°∏35'52 27°∏12'37 0°©	25°20'54
max. Earth dist. asc. node superior conj minimum elong	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21	0° m/ 7° m/31'28 15° m/22'40 22° m/08'12 25° m/06'34 25° m/02'45	0°13'54	morning rise direct desc. node morning max el	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16	22° ∏33'23 19° ∏56'37 21° ∏35'52 27° ∏12'37 0° © 0° Ω 19° Ω49'59	
max. Earth dist. asc. node	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13	0° my 7° my 31'28 15° my 22'40 22° my 08'12 25° my 06'34 25° my 02'45 24° my 46'30	0°13'54	morning rise direct desc. node morning max el	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16 11950 Aug 14 06:18	22° Π33'23 19° Π56'37 21° Π35'52 27° Π12'37 0° Φ 0° Ω 19° Ω49'59 26° Ω29'25	25°20'54 1.36320 AU
max. Earth dist. asc. node superior conj minimum elong behind sun begin	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13 11949 Sep 06 00:28	0° my 7° my 31'28 15° my 22'40 22° my 08'12 25° my 06'34 25° my 02'45 24° my 46'30 25° my 19'00	0°13'54	morning rise direct desc. node morning max el	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16	22° ∏33'23 19° ∏56'37 21° ∏35'52 27° ∏12'37 0° © 0° Ω 19° Ω49'59	
max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13 11949 Sep 06 00:28 11949 Sep 08 06:13	0° my 7° my 31'28 15° my 22'40 22° my 08'12 25° my 06'34 25° my 02'45 24° my 46'30 25° my 19'00 0° Ω	0°13'54	morning rise direct desc. node morning max el morning set max. Earth dist.	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16 11950 Aug 14 06:18 11950 Aug 16 02:52	22° ∏33'23 19° ∏56'37 21° ∏35'52 27° ∏12'37 0° © 0° Ω 19° Ω49'59 26° Ω29'25 0° M	1.36320 AU
max. Earth dist. asc. node superior conj minimum elong behind sun begin	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13 11949 Sep 06 00:28 11949 Sep 08 06:13 11949 Sep 13 08:37	0° my 7° my 31'28 15° my 22'40 22° my 08'12 25° my 06'34 25° my 02'45 24° my 46'30 25° my 19'00 0° Ω 10° Ω 45'02	0°13'54	morning rise direct desc. node morning max el morning set max. Earth dist.	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16 11950 Aug 14 06:18 11950 Aug 16 02:52	22° \$\Pi\$33'23 19° \$\Pi\$56'37 21° \$\Pi\$35'52 27° \$\Pi\$12'37 0° \$\Pi\$0° \$\Omega\$ 19° \$\Omega\$49'59 26° \$\Omega\$29'25 0° \$\Pi\$0	1.36320 AU -0°17'27
max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13 11949 Sep 06 00:28 11949 Sep 08 06:13 11949 Sep 13 08:37 11949 Sep 23 08:17	0° m 7° m 31'28 15° m 22'40 22° m 08'12 25° m 06'34 25° m 02'45 24° m 46'30 25° m 19'00 0° Ω 10° Ω 45'02 0° M.	0°13'54 0°13'36	morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16 11950 Aug 14 06:18 11950 Aug 16 02:52 11950 Aug 20 12:11 11950 Aug 20 13:18	22° Π33'23 19° Π56'37 21° Π35'52 27° Π12'37 0° Θ 0° Ω 19° Ω49'59 26° Ω29'25 0° M 8° M33'25 8° M38'55	1.36320 AU -0°17'27
max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13 11949 Sep 06 00:28 11949 Sep 08 06:13 11949 Sep 13 08:37 11949 Sep 23 08:17 11949 Oct 02 19:01	0° m 7° m 31'28 15° m 22'40 22° m 08'12 25° m 06'34 25° m 02'45 24° m 46'30 25° m 19'00 0° \(\Omega\) 10° \(\Omega\) 45'02 0° m 12° m 43'40	0°13'54	morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16 11950 Aug 14 06:18 11950 Aug 16 02:52 11950 Aug 20 12:11 11950 Aug 20 13:18 11950 Aug 22 08:12	22° \$\Pi\$ 33'23 19° \$\Pi\$ 56'37 21° \$\Pi\$ 35'52 27° \$\Pi\$ 12'37 0° \$\Pi\$ 0° \$\Omega\$ 19° \$\Omega\$ 49'59 26° \$\Omega\$ 29'25 0° \$\Pi\$ 8° \$\Pi\$ 33'25 8° \$\Pi\$ 38'55 12° \$\Pi\$ \$\Pi\$ 13'44	1.36320 AU -0°17'27
max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	11949 Aug 23 23:57 11949 Aug 28 01:50 11949 Sep 01 03:07 11949 Sep 04 11:30 11949 Sep 05 22:05 11949 Sep 05 21:21 11949 Sep 05 18:13 11949 Sep 06 00:28 11949 Sep 08 06:13 11949 Sep 13 08:37 11949 Sep 23 08:17	0° m 7° m 31'28 15° m 22'40 22° m 08'12 25° m 06'34 25° m 02'45 24° m 46'30 25° m 19'00 0° Ω 10° Ω 45'02 0° M.	0°13'54 0°13'36	morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	11950 Jun 17 14:05 11950 Jun 23 12:24 11950 Jun 28 19:20 11950 Jul 05 15:25 11950 Jul 08 06:02 11950 Jul 29 21:49 11950 Aug 10 15:16 11950 Aug 14 06:18 11950 Aug 16 02:52 11950 Aug 20 12:11 11950 Aug 20 13:18	22° Π33'23 19° Π56'37 21° Π35'52 27° Π12'37 0° Θ 0° Ω 19° Ω49'59 26° Ω29'25 0° M 8° M33'25 8° M38'55	1.36320 AU -0°17'27

	11050 0 15 01 06	220 2 41106	10051100		11051 4 20 21 10	50.005150	10054156
evening max el	11950 Sep 15 01:26	23° £ 41'06	19°51′20	evening max el	11951 Aug 28 21:18	5° Ω 25'58	18°54'56
desc. node	11950 Sep 24 16:35	28° ≏ 45'25		retrograde	11951 Sep 06 12:27	9° ≏ 45'03	
retrograde	11950 Sep 25 06:37	28° ≏ 46'22		evening set	11951 Sep 08 09:34	9° ჲ 33'34	
evening set	11950 Sep 27 04:21	28° ≏ 36'32		desc. node	11951 Sep 11 14:01	8° ≏ 26'36	
inferior conj	11950 Oct 06 01:55	24° ≏ 35'11	-3°27'59	inferior conj	11951 Sep 16 16:07	5° ≏ 15'55	-1°35'55
minimum elong	11950 Oct 05 17:03	24° ≏ 48'47	3°24'40	minimum elong	11951 Sep 16 12:03	5° ≏ 23'08	1°34'18
min. Earth dist.	11950 Oct 08 01:53	23° ₽ 21'43	0.55133 AU	min. Earth dist.	11951 Sep 19 15:44	3° ഫ 09'47	0.56542 AU
morning rise	11950 Oct 14 04:15	20° ₽ 19'45		morning rise	11951 Sep 24 11:17	0° ჲ 23'48	
direct	11950 Oct 18 23:47	19° ≏ 28'59			11951 Sep 25 11:06	30°₽, ™)	
morning max el	11950 Nov 01 18:14	26° ₽ 17'14	24°32'18	direct	11951 Sep 30 01:42	29° m 09'03	
	11950 Nov 05 07:26	0° M .			11951 Oct 04 17:05	0∘ ⊽	
asc. node	11950 Nov 18 09:25	19°M23'32		morning max el	11951 Oct 14 07:05	6° ₽ 29'01	26°10'09
	11950 Nov 23 21:28	0° ∡ ¹		3	11951 Oct 31 14:00	0° M	
morning set	11950 Nov 27 04:22	6° х ⁷ 53′02		asc. node	11951 Nov 05 06:16	8°M33'00	
morning set	11/30 1107 27 04.22	0 7 33 02		morning set	11951 Nov 11 15:17	21°M32'53	
superior conj	11950 Dec 04 00:02	21° х 46'28	1°38'56	morning set	11951 Nov 15 12:14	0° ⊼	
		21° x 46'28	1°39'44		11931 NOV 13 12.14	0 x	
minimum elong	11950 Dec 04 00:05				1105131 10 10 10	60 7 01140	1026110
max. Earth dist.	11950 Dec 06 01:49	26° ⊀ 17'22	1.32474 AU	superior conj	11951 Nov 18 10:48		1°36'19
	11950 Dec 07 19:19	0° る		minimum elong	11951 Nov 18 09:49	6° ∡ 126'17	1°36'59
evening rise	11950 Dec 11 09:01	7° る 26'36		max. Earth dist.	11951 Nov 19 07:53	8° ∡ 728'45	1.31649 AU
desc. node	11950 Dec 21 14:22	26° る 41'50		evening rise	11951 Nov 25 10:06	21° х 40′59	
	11950 Dec 23 13:03	0° ≈			11951 Nov 29 12:10	0°₹	
evening max el	11951 Jan 13 20:04	28° ≈ 27'54	27°31'34	desc. node	11951 Dec 08 11:24	16° る 17'06	
	11951 Jan 15 12:25	0° ∀			11951 Dec 17 14:19	0° ≈	
retrograde	11951 Jan 27 14:10	5°) 50′48		evening max el	11951 Dec 27 04:06	11° ≈ 03'10	27°21'13
evening set	11951 Feb 03 12:32	3° ¥ 24'04		retrograde	11952 Jan 10 02:02	18° ≈ 19'42	
3	11951 Feb 07 11:40	30°R ≈		evening set	11952 Jan 17 00:41	16° ≈ 07'33	
min. Earth dist.	11951 Feb 07 06:55	0°) 11'35	0.63369 AU	min. Earth dist.	11952 Jan 20 18:36	13° ≈ 18'27	0.61308 AU
inferior conj	11951 Feb 10 00:38	27°≈26'58		inferior conj	11952 Jan 23 20:28	10°≈34'46	
minimum elong	11951 Feb 10 00:36	27°≈20'00	1°23'22	minimum elong	11952 Jan 24 02:05	10°≈22'18	
asc. node	11951 Feb 14 08:06	27 ≈20 00 23°≈35'20	1 23 22	morning rise	11952 Jan 31 06:19	5°≈38'05	2 39 17
				•			
morning rise	11951 Feb 16 20:34	22°≈11'50		asc. node	11952 Feb 01 05:25	5°≈24'38	
direct	11951 Feb 19 05:26	21° ≈ 44'43		direct	11952 Feb 02 09:53	5°≈18'38	
morning max el	11951 Feb 25 18:01	25°≈05'35	17°46'59	morning max el	11952 Feb 09 10:24	8°≈50'55	17°52'36
	11951 Mar 01 20:17	0° ∀			11952 Feb 23 06:16	0° ∀	
morning set	11951 Mar 14 02:10	19° ¥ 58'48		morning set	11952 Feb 25 01:45	3° ¥ 16′35	
desc. node	11951 Mar 19 15:25	29°) €29'48		desc. node	11952 Mar 05 12:01	20°) €06'15	
	11951 Mar 19 22:32	0 ° $\mathbf{\Upsilon}$					
				superior conj	11952 Mar 06 19:17	22° ∺ 21'31	-0°10'05
superior conj	11951 Mar 26 12:57	11° Y ′00'38	-0°50'56	minimum elong	11952 Mar 06 18:23	22°) 17'41	0°09'45
minimum elong	11951 Mar 26 07:41	10° Ƴ 38'59	0°50'15	behind sun begin	11952 Mar 06 11:41	21° ¥ 48'46	
max. Earth dist.	11951 Apr 01 13:26	20° Y ′44′10	1.44596 AU	behind sun end	11952 Mar 07 01:05	22°) 46'32	
man Darun Gibt.	11951 Apr 07 10:48	0°8	10,0110		11952 Mar 11 07:25	0°Υ	
evening rise	11951 Apr 10 20:34	5° 8 15'46		max. Earth dist.	11952 Mar 14 03:59	4° Υ 43'16	1.43052 AU
evening rise	11951 Apr 27 11:19	9° П		evening rise	11952 Mar 20 15:49	15° Υ 07'19	1.43032 710
	11951 May 09 21:01	15° Ⅱ 48'33	20°41'44	evening rise	11952 Mar 30 09:39	0° 8	
evening max el	•		20 41 44				21955124
asc. node	11951 May 13 05:19	18° Ⅱ 43'10		evening max el	11952 Apr 21 16:36	29° 8 35'14	21°55'34
retrograde	11951 May 18 02:27	20° Ⅱ 35'19			11952 Apr 22 02:34	0°Щ	
evening set	11951 May 22 05:37	18° ∏ 58'15		asc. node	11952 Apr 29 02:35	4° Ⅱ 47'32	
inferior conj	11951 May 27 12:04	12° Ⅱ 49'50	3°11'31	retrograde	11952 May 01 00:28	5° Ⅱ 04'54	
minimum elong	11951 May 27 11:17	12° Ⅲ 52'32	3°10'42	evening set	11952 May 05 14:13	3° Ⅱ 12'20	
min. Earth dist.	11951 May 28 02:03	12° Ⅱ 01'34	0.68293 AU		11952 May 08 13:59	30° ₹႘	
morning rise	11951 Jun 01 16:43	6° Ⅱ 31′24		inferior conj	11952 May 10 21:01	26° 8 53'35	2°57'08
direct	11951 Jun 07 02:48	4° Ⅱ 07'47		minimum elong	11952 May 10 19:25	26° 8 59'08	2°56'15
desc. node	11951 Jun 15 16:25	8° Ⅲ 25′22		min. Earth dist.	11952 May 10 21:56	26° 8 50'22	0.68740 AU
morning max el	11951 Jun 18 01:24	10° Ⅱ 40′22	23°53'08	morning rise	11952 May 16 00:26	20° 8 40'20	
Ü	11951 Jul 03 10:00	0° ©		direct	11952 May 20 21:29	18° 8 34'57	
	11951 Jul 22 15:36	0°N		morning max el	11952 May 30 12:53	24° 8 15'40	22023137
morning set	11951 Jul 23 08:40	1° Ω 12'35		desc. node	11952 Jun 01 13:22	26° 8 23'51	22 23 37
max. Earth dist.	11951 Jul 27 03:48	7°Ω48'35	1.38574 AU	acse. Houc	11952 Jun 04 15:24	26 G 23 31 0° Ⅱ	
max. Darui Uist.	11731 Jul 4/ U3.48	1 0640 33	1.303/4 AU				
	11061 1 00 10 1	210 02	0051110		11952 Jun 25 19:42	0.22	
superior conj	11951 Aug 03 13:32	21°Ω22'00		morning set	11952 Jul 03 01:29	11°5528'35	
minimum elong	11951 Aug 03 17:06	21° Ω 38'51	0°51'16	max. Earth dist.	11952 Jul 08 02:18	19° 5 548'24	1.40884 AU
	11951 Aug 08 01:20	0° ™			11952 Jul 14 00:09	0 $^{\circ}$ Ω	
asc. node	11951 Aug 09 04:55	2° m 14'43					
evening rise					11050 Y 1 15 01 55		
	11951 Aug 12 13:57	8° m 52'18		superior conj	11952 Jul 15 21:57	3° £ 23′27	-1°24'52
<i>y</i>	11951 Aug 12 13:57 11951 Aug 24 10:44	8° m 52′18 0° <u>Ω</u>		minimum elong	11952 Jul 15 21:57 11952 Jul 16 03:55	3° λ (23'27 3° Ω 50'11	

evening rise	11952 Jul 26 03:34	22° Ω 16'34			11953 Jul 06 07:26	0°Ω	
asc. node	11952 Jul 26 01:40	22° Ω 07'43		evening rise	11953 Jul 09 03:07	5° Ω 01'38	
ase. noue	11952 Jul 30 07:14	0° m)		asc. node	11953 Jul 12 22:30	11° Ω 48'35	
evening max el	11952 Aug 11 03:15	17° m) 52'43	18°19'41		11953 Jul 24 19:15	0° m)	
retrograde	11952 Aug 18 13:11	21° m)37'14		evening max el	11953 Jul 25 15:10	0° mp 51'42	18°04'25
evening set	11952 Aug 20 16:26	21° m 19'21		retrograde	11953 Aug 01 07:09	4° m) 16'44	
inferior conj	11952 Aug 28 03:59	16° Mp 41'14	0°05'43	evening set	11953 Aug 03 18:20	3° Mp 48'42	
minimum elong	11952 Aug 28 04:11	16° m 40'50	0°05'23		11953 Aug 09 06:39	30° R Ω	
transit middle	11952 Aug 28 04:11	16° Mp 40° 50	0°05'23	inferior conj	11953 Aug 10 12:15	28° Q 50′15	1°24'37
transit begin	11952 Aug 28 00:53	16° m 47'39		minimum elong	11953 Aug 10 14:32	28° Ω 44'46	1°23'22
transit end	11952 Aug 28 07:28	16° Mp 34'00		min. Earth dist.	11953 Aug 13 16:28	25° Ω 48'51	0.60812 AU
desc. node	11952 Aug 28 11:26	16° m 25'47		desc. node	11953 Aug 15 08:48	24° Ω 21'42	
min. Earth dist.	11952 Aug 31 12:02	13° m 56'42	0.58545 AU	morning rise	11953 Aug 17 07:58	22° Ω 55'02	
morning rise	11952 Sep 04 12:25	11° Mp 13'22		direct	11953 Aug 23 22:27	20° Ω 44'56	
direct	11952 Sep 10 18:03	9° m/30'06		morning max el	11953 Sep 07 04:49	28° Ω 41'29	27°55'14
morning max el	11952 Sep 25 02:20	17° m 12'38	27°21'03		11953 Sep 08 11:36	0° m)	
	11952 Oct 05 16:41	0° ⊽			11953 Sep 29 13:58	0° ⊽	
asc. node	11952 Oct 22 03:02	28° ♀ 04'47		asc. node	11953 Oct 08 23:44	17° £ 52'31	
	11952 Oct 23 01:54	0°M		morning set	11953 Oct 10 03:10 11953 Oct 14 16:58	20° £ 13'55 0° I L	
morning set	11952 Oct 25 23:29	6° ™ 01′20		max. Earth dist.	11953 Oct 14 16:58 11953 Oct 16 00:28	2°M52'52	1.31511 AU
superior conj	11952 Nov 01 22:30	21° M L16'17	1°27'56	max. Earth dist.	11933 Oct 10 00.28	2 1163232	1.31311 AU
minimum elong	11952 Nov 01 22:30	21°ML06'17	1°28'20	superior conj	11953 Oct 17 09:20	5°ML54'34	1°13'59
max. Earth dist.	11952 Nov 01 20:43	20°M43'25	1.31325 AU	minimum elong	11953 Oct 17 07:20 11953 Oct 17 07:07	5°M42'17	1°14'04
max. Earth dist.	11952 Nov 05 20:48	0° √	1.51525710	evening rise	11953 Oct 24 02:26	20°M41'51	1 1404
evening rise	11952 Nov 08 16:35	6° х ¹07'54		evening rise	11953 Oct 28 13:23	0° %	
e vennig rise	11952 Nov 21 02:24	0°ਰ		desc. node	11953 Nov 11 05:41	23° × 727'11	
desc. node	11952 Nov 24 08:30	5° ට 16'46			11953 Nov 16 09:00	5°0	
evening max el	11952 Dec 08 05:48	22° る 50'46	26°36'29	evening max el	11953 Nov 19 23:16	3° ප 46'16	25°20'00
retrograde	11952 Dec 22 04:37	29° ප 58'10		retrograde	11953 Dec 03 19:43	10° පි 43'51	
evening set	11952 Dec 28 19:32	28° る 09'39		evening set	11953 Dec 09 16:34	9° ට 25'36	
min. Earth dist.	11953 Jan 01 19:46	25° ට 33'01	0.59164 AU	min. Earth dist.	11953 Dec 14 11:24	6° ප 45'53	0.57155 AU
inferior conj	11953 Jan 04 23:45	23° පි 06'14	-4°01'03	inferior conj	11953 Dec 17 07:19	4° ප 52'06	-5°09'55
minimum elong	11953 Jan 05 07:45	22° る 50'43	3°57'45	minimum elong	11953 Dec 17 15:06	4° ට 39'01	5°07'32
morning rise	11953 Jan 12 22:50	18° る 30'28		morning rise	11953 Dec 25 15:58	0° る 38'37	
direct	11953 Jan 15 00:49	18° ප 15'00		direct	11953 Dec 27 22:13	0° る 23'29	
asc. node	11953 Jan 18 02:40	18° පි 50'30		asc. node	11954 Jan 04 23:50	3° る 51′27	
morning max el	11953 Jan 22 21:43	22° පි 08'17	18°17'35	morning max el	11954 Jan 06 00:01	4° පි 46'48	19°03'58
	11953 Jan 28 23:58	0° ≈			11954 Jan 21 19:57	0° ≈	
morning set	11953 Feb 07 15:35	17°≈12'57		morning set	11954 Jan 22 15:11	1° ≈ 34'52	
	11953 Feb 14 10:17	0° ℋ			11054 I 20 22-21	179 59120	0055100
superior conj	11953 Feb 17 00:16	4° ₩ 44'48	0°26'06	superior conj minimum elong	11954 Jan 30 23:31 11954 Jan 31 02:24	17°≈58'29 18°≈12'20	0°55'08 0°55'20
minimum elong	11953 Feb 17 00:10 11953 Feb 17 02:09	4°)(53'21	0°26'13	minimum clong	11954 Feb 06 10:38	0° ∺	0 33 20
desc. node	11953 Feb 20 08:38	10°) 45'17	0 20 13	max. Earth dist.	11954 Feb 06 20:53	0° ∺ 46′01	1.38856 AU
max. Earth dist.	11953 Feb 24 13:59	18°) €04'51	1.41066 AU	desc. node	11954 Feb 07 05:18	1°) 23′39	1.50000110
evening rise	11953 Mar 01 05:20	25°) 49′16		evening rise	11954 Feb 10 16:11	7°) €26'47	
J	11953 Mar 03 19:20	$0^{\circ}\mathbf{\Upsilon}$		· ·	11954 Feb 24 18:16	0° Υ	
	11953 Mar 24 03:48	9° 8		evening max el	11954 Mar 17 22:08	27° Ƴ 14'42	24°35'23
evening max el	11953 Apr 04 08:19	13° 8 23'52	23°15'34		11954 Mar 20 22:38	$0^{\circ}B$	
retrograde	11953 Apr 14 20:00	19° 8 34'55		retrograde	11954 Mar 29 11:52	4° 8 00'19	
asc. node						201 12 1101	
evening set	11953 Apr 15 23:53	19° 8 28'36		asc. node	11954 Apr 02 21:14	2° 8 34'01	
8	11953 Apr 15 23:53 11953 Apr 19 21:12	17° 8 27'59		asc. node evening set	11954 Apr 02 21:14 11954 Apr 04 01:00	1° 8 40'58	
inferior conj	11953 Apr 19 21:12 11953 Apr 25 06:18	17° と 27'59 11° と 01'49	2°32'43	evening set	11954 Apr 04 01:00 11954 Apr 05 18:17	1° ႘ 40'58 30°ℝ Υ	
inferior conj minimum elong	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14	17° と 27'59 11° と 01'49 11° と 08'58	2°31'45	evening set min. Earth dist.	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16	1° ႘ 40'58 30°℟ Ƴ 26° Ƴ 30'30	0.68264 AU
inferior conj minimum elong min. Earth dist.	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43	17° 8 27'59 11° 8 01'49 11° 8 08'58 11° 8 41'46		evening set min. Earth dist. inferior conj	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05	1°840'58 30°RΥ 26°Υ30'30 25°Υ11'03	1°58'31
inferior conj minimum elong min. Earth dist. morning rise	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10	17° 8 27'59 11° 8 01'49 11° 8 08'58 11° 8 41'46 4° 8 55'12	2°31'45	evening set min. Earth dist. inferior conj minimum elong	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56	1°840'58 30°RY 26°Y30'30 25°Y11'03 25°Y18'11	
inferior conj minimum elong min. Earth dist. morning rise direct	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10	17°\dagger 27'59 11°\dagger 301'49 11°\dagger 308'58 11°\dagger 41'46 4°\dagger 55'12 3°\dagger 310'43	2°31'45 0.68724 AU	evening set min. Earth dist. inferior conj minimum elong morning rise	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02	1°840'58 30°RY 26°Y'30'30 25°Y'11'03 25°Y'18'11 19°Y12'23	1°58'31
inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12	17°\delta27'59 11°\delta01'49 11°\delta8558 11°\delta41'46 4°\delta55'12 3°\delta10'43 8°\delta00'39	2°31'45	evening set min. Earth dist. inferior conj minimum elong morning rise direct	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31	1°\delta40'58 30°\delta\text{Y} 26°\delta30'30 25°\delta11'03 25°\delta11'1 19°\delta12'23 17°\delta49'13	1°58'31 1°57'36
inferior conj minimum elong min. Earth dist. morning rise direct	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13	11°827'59 11°801'49 11°808'58 11°841'46 4°855'12 3°810'43 8°800'39 15°812'03	2°31'45 0.68724 AU	evening set min. Earth dist. inferior conj minimum elong morning rise	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54	1°840'58 30°8°Y 26°Y'30'30 25°Y'11'03 25°Y'18'11 19°Y'12'23 17°Y'49'13 21°Y'57'38	1°58'31
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13 11953 May 30 02:01	17°827'59 11°801'49 11°808'58 11°841'46 4°855'12 3°810'43 8°800'39 15°812'03 0°耳	2°31'45 0.68724 AU	evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54 11954 May 02 22:56	1°840'58 30°8° 26°°4'30'30 25°°4'11'03 25°°4'18'11 19°°4'12'23 17°°49'13 21°°4'57'38 0°8	1°58'31 1°57'36
inferior conj minimum elong min. Earth dist. morning rise direct morning max el	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13 11953 May 30 02:01 11953 Jun 12 17:04	17°\2759 11°\301'49 11°\308'58 11°\341'46 4°\355'12 3°\310'43 8°\300'39 15°\312'03 0°\II 20°\II37'54	2°31'45 0.68724 AU	evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54 11954 May 02 22:56 11954 May 06 06:59	1°840'58 30°8°Y 26°Y'30'30 25°Y'11'03 25°Y'18'11 19°Y'12'23 17°Y'49'13 21°Y'57'38 0°8 4°8'36'28	1°58'31 1°57'36 19°49'40
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13 11953 May 30 02:01 11953 Jun 12 17:04 11953 Jun 18 14:45	17°\delta27'59 11°\delta01'49 11°\delta08'58 11°\delta41'46 4°\delta55'12 3°\delta10'43 8°\delta00'39 15°\delta12'03 0°\pi 20°\pi 37'54 0°\square	2°31'45 0.68724 AU 21°00'37	evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54 11954 May 02 22:56 11954 May 06 06:59 11954 May 09 06:32	1°840'58 30°8°Y 26°°Y30'30 25°°Y11'03 25°°Y18'11 19°°Y12'23 17°°Y49'13 21°°Y57'38 0°8 4°836'28 8°854'06	1°58'31 1°57'36
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13 11953 May 30 02:01 11953 Jun 12 17:04	17°\2759 11°\301'49 11°\308'58 11°\341'46 4°\355'12 3°\310'43 8°\300'39 15°\312'03 0°\II 20°\II37'54	2°31'45 0.68724 AU	evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54 11954 May 02 22:56 11954 May 06 06:59 11954 May 09 06:32 11954 May 22 17:40	1°840'58 30°8°Y 26°Y30'30 25°Y11'03 25°Y18'11 19°Y12'23 17°Y49'13 21°Y57'38 0°8 4°836'28 8°854'06 29°811'18	1°58'31 1°57'36 19°49'40
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13 11953 May 30 02:01 11953 Jun 12 17:04 11953 Jun 18 14:45 11953 Jun 20 07:16	17°\2759 11°\301'49 11°\308'58 11°\341'46 4°\355'12 3°\300'39 15°\312'03 0°\11 20°\137'54 0°\9 2°\943'56	2°31'45 0.68724 AU 21°00'37	evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54 11954 May 02 22:56 11954 May 06 06:59 11954 May 09 06:32 11954 May 22 17:40 11954 May 23 06:20	1°840'58 30°8Υ 26°Υ30'30 25°Υ11'03 25°Υ18'11 19°Υ12'23 17°Υ49'13 21°Υ57'38 0°8 4°836'28 8°854'06 29°811'18 0°Π	1°58'31 1°57'36 19°49'40 -0.6m
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	11953 Apr 19 21:12 11953 Apr 25 06:18 11953 Apr 25 04:14 11953 Apr 24 18:43 11953 Apr 30 11:10 11953 May 04 19:10 11953 May 13 05:12 11953 May 19 10:13 11953 May 30 02:01 11953 Jun 12 17:04 11953 Jun 18 14:45	17°\delta27'59 11°\delta01'49 11°\delta08'58 11°\delta41'46 4°\delta55'12 3°\delta10'43 8°\delta00'39 15°\delta12'03 0°\pi 20°\pi 37'54 0°\square	2°31'45 0.68724 AU 21°00'37 1.42961 AU -1°53'34	evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	11954 Apr 04 01:00 11954 Apr 05 18:17 11954 Apr 08 14:16 11954 Apr 09 14:05 11954 Apr 09 11:56 11954 Apr 14 23:02 11954 Apr 18 18:31 11954 Apr 26 04:54 11954 May 02 22:56 11954 May 06 06:59 11954 May 09 06:32 11954 May 22 17:40	1°840'58 30°8°Y 26°Y30'30 25°Y11'03 25°Y18'11 19°Y12'23 17°Y49'13 21°Y57'38 0°8 4°836'28 8°854'06 29°811'18 0°II	1°58'31 1°57'36 19°49'40

superior conj	11954 Jun 07 20:03	24° ∏ 31′23	2°11'01	minimum elong	11955 May 18 06:31	3° ∏ 29'24	2011/15
minimum elong	11954 Jun 07 23:25	24° II 45'00		evening rise	11955 Jun 02 12:51	27° Ⅱ 49'27	2 11 13
minimum clong	11954 Jun 11 04:46	0°95	2 11 43	evening rise	11955 Jun 03 21:06	0°95	
evening rise	11954 Jun 21 07:38	16°955'20		asc. node	11955 Jun 16 16:23	20°9510'19	
evening noe	11954 Jun 29 01:54	0°Ω		evening max el	11955 Jun 22 18:16	27°5947'14	18°29'57
asc. node	11954 Jun 29 19:24	1°Ω11'32		overing man er	11955 Jun 25 10:16	0°Ω	10 25 07
evening max el	11954 Jul 09 05:13	14°Ω12'28	18°08'05	retrograde	11955 Jun 29 05:28	1° Ω 16'44	
retrograde	11954 Jul 15 14:04	17° Ω 32'52		evening set	11955 Jul 02 08:55	0° Ω 21'10	
evening set	11954 Jul 18 09:18	16° Ω 51'59		C	11955 Jul 02 22:20	30° ℝ ∽	
inferior conj	11954 Jul 24 13:07	11° Ω 35′07	2°19'39	inferior conj	11955 Jul 08 02:31	24°5548'00	2°53'58
minimum elong	11954 Jul 24 15:43	11° Ω 28′02	2°18'19	minimum elong	11955 Jul 08 04:27	24°9542'11	2°52'51
min. Earth dist.	11954 Jul 27 06:20	8° Ω 38'55	0.63046 AU	min. Earth dist.	11955 Jul 10 05:40	22° © 15'00	0.65035 AU
morning rise	11954 Jul 30 20:17	5° Ω 22'43		morning rise	11955 Jul 13 22:54	18° © 27'14	
desc. node	11954 Aug 02 06:08	3° £ 53′15		direct	11955 Jul 20 11:33	15° 5 46'15	
direct	11954 Aug 06 12:46	2° Ω 52′24		desc. node	11955 Jul 20 03:25	15° 5 46'39	
morning max el	11954 Aug 20 12:48	10° Ω 54'31	27°50'50	morning max el	11955 Aug 02 23:32	23° © 42'45	27°11'59
	11954 Sep 04 13:25	0° ™			11955 Aug 08 14:22	0 $^{\circ}$ Ω	
	11954 Sep 21 22:57	0∘ ⊽			11955 Aug 28 22:05	0° m	
morning set	11954 Sep 24 00:06	4° £ 04'26		morning set	11955 Sep 07 11:40	17° m) 26'36	
asc. node	11954 Sep 25 20:24	7° ≏ 50'28		max. Earth dist.	11955 Sep 11 22:05	•	1.33432 AU
max. Earth dist.	11954 Sep 29 03:29	14° ≏ 46'19	1.32213 AU	asc. node	11955 Sep 12 17:05	27° m 54'28	
					11955 Sep 13 17:19	0∘ ⊽	
superior conj	11954 Oct 01 17:22	20° Ω 20'32	0°54'38		110550 15 00 00	40.0.00150	0020107
minimum elong	11954 Oct 01 15:14	20° Ω 08'51	0°54'27	superior conj	11955 Sep 15 20:32	4° £ 28'59	0°30'07
	11954 Oct 06 03:16	0°M		minimum elong	11955 Sep 15 19:05	4° £ 21'16	0°29'50
evening rise	11954 Oct 08 13:41	5°M16'48		evening rise	11955 Sep 23 00:31	19° ≏ 48'01	
daga mada	11954 Oct 21 13:02	0°×7 10°×729'50		avanina may al	11955 Sep 27 23:41	0°M	2202100
desc. node evening max el	11954 Oct 29 02:57 11954 Nov 01 10:03	10° х 28'59 13° х 59'45	23°42'45	evening max el desc. node	11955 Oct 13 22:05 11955 Oct 16 00:18	24°M04'19 25°M57'51	22°02'09
retrograde	11954 Nov 14 22:15	20° × ⁷ 44'08	23 42 43	desc. node	11955 Oct 23 12:48	25 IIG5751 0° ⊼ ¹	
evening set	11954 Nov 19 13:22	19° х 57'26		retrograde	11955 Oct 26 13:47	0° ₹ ¹21'44	
min. Earth dist.	11954 Nov 25 20:23	16° ₹ 57 26	0.55556 AU	evening set	11955 Oct 29 18:01	29°M59'14	
inferior conj	11954 Nov 27 18:22	15° × ⁷ 47'18		evening set	11955 Oct 29 16:40	30°RM	
minimum elong	11954 Nov 27 20:47	15° ₹ 43'42		min. Earth dist.	11955 Nov 07 03:08	26°M17'22	0.54665 AU
morning rise	11954 Dec 06 06:04	11°×753'11	3 1011	inferior conj	11955 Nov 07 14:01	26°ML02'06	
direct	11954 Dec 08 23:58	11° × °34'28		minimum elong	11955 Nov 07 07:54	26°M10'41	
morning max el	11954 Dec 19 13:42	16° х 36′12	20°13'20	morning rise	11955 Nov 15 23:04	22°M15'01	
asc. node	11954 Dec 22 20:54	20° х 13′12		direct	11955 Nov 19 10:44	21°ML48'10	
	11954 Dec 29 10:29	ರ°0		morning max el	11955 Dec 01 13:31	27° M 33'41	21°44'26
morning set	11955 Jan 06 21:12	16° る 12'03			11955 Dec 03 22:25	0° ∡ ¹	
	11955 Jan 13 14:42	0°≈		asc. node	11955 Dec 09 17:56	7° ∡ ³39'33	
					11955 Dec 21 20:08	ರ∘ರ	
superior conj	11955 Jan 14 12:22	1° ≈ 49′22	1°16'32	morning set	11955 Dec 22 07:02	0° る 56'57	
minimum elong	11955 Jan 14 15:04	2° ≈ 02'53	1°16'57				
max. Earth dist.	11955 Jan 20 03:56	12° ≈ 52'59	1.36660 AU	superior conj	11955 Dec 29 10:57	16° පි 06'06	1°30'32
evening rise	11955 Jan 23 22:40	19° ≈ 54'14		minimum elong	11955 Dec 29 12:47	16° る 15'40	1°31'12
desc. node	11955 Jan 25 02:03	21° ≈ 57'34		max. Earth dist.	11956 Jan 02 15:46	24° る 44'26	1.34711 AU
	11955 Jan 29 16:59	0° ∀			11956 Jan 05 07:30	0° ≈	
_	11955 Feb 18 19:40	0° Υ		evening rise	11956 Jan 06 21:26	3°≈02'50	
evening max el	11955 Feb 28 11:30	11° Υ ′05'12	25°48'07	desc. node	11956 Jan 11 22:51	12° ≈ 22'34	
retrograde	11955 Mar 12 23:14	18°Υ15'22			11956 Jan 22 14:59	0°) {	26046120
evening set	11955 Mar 19 00:04	15° ℃ 46'49		evening max el	11956 Feb 11 01:02	24°) (48'48	26°46'29
asc. node	11955 Mar 20 18:35	14° Υ 06'00	0.63333.411		11956 Feb 17 12:19	0°Υ 2°Ω11152	
min. Earth dist.	11955 Mar 23 06:27	11° Υ 11'34 9° Υ 17'48	0.67373 AU 1°14'30	retrograde	11956 Feb 24 05:14	2° Y 11'52 30° R ₩	
inferior conj	11955 Mar 24 18:27 11955 Mar 24 16:46	9° Υ 17'48 9° Υ 23'07	1°14′30 1°13′50	avanina aat	11956 Mar 01 05:35 11956 Mar 01 16:30	30°₹ ⊼ 29° 升 38'58	
minimum elong		3° Υ 28'32	1 13 30	evening set min. Earth dist.		29 X 38 38 25° X 37'42	0.66084 AU
morning rise direct	11955 Mar 30 10:05 11955 Apr 02 17:59	3 1 28 32 2° Υ 25'12		asc. node	11956 Mar 05 17:11 11956 Mar 06 15:58	23 K 3/42 24° H 31'18	0.0000+ AU
morning max el	11955 Apr 02 17:39 11955 Apr 09 12:19	6° Υ 04'59	18°53'49	inferior conj	11956 Mar 07 17:14	23° X 16'44	0°20'22
desc. node	11955 Apr 23 03:43	24° Υ 27'41	10 00 77	minimum elong	11956 Mar 07 16:41	23° X 18'22	0°20'19
greatest brilliancy	11955 Apr 23 06:10	24° Y '37'02	-0.8m	morning rise	11956 Mar 13 18:03	17°\(\dagger)38'38	J =J 17
3-111100 Olimaney	11955 Apr 26 18:20	0°8	~ · ~ · · ·	direct	11956 Mar 16 15:40	16° ¥ 52'12	
morning set	11955 May 02 01:04	8° 8 11'09		morning max el	11956 Mar 23 01:48	20°) 16'07	18°14'23
<i>5</i> ,	11955 May 16 01:06	0°II		<i>5 5</i> -	11956 Mar 30 16:18	0° Υ	-
max. Earth dist.	11955 May 16 12:34	0° Ⅱ 44'55	1.45509 AU	desc. node	11956 Apr 09 00:23	14° Ƴ 37'54	
	•	-		morning set	11956 Apr 11 09:14	18° Ƴ 25'59	
superior conj	11955 May 18 10:30	3°Ⅱ45′04	-2°10'40		11956 Apr 18 15:03	0°8	
- "	•				•		

superior conj	11956 Apr 26 17:35	12° 8 46'10	-1°50'10	desc. node	11957 Mar 26 21:02	5° Ƴ 01'46	
minimum elong	11956 Apr 26 08:26	12° 8 10'23					
max. Earth dist.	11956 Apr 28 07:59	15° 8 16'24	1.45731 AU	superior conj	11957 Apr 06 11:12	22° Y 21'48	-1°14'36
	11956 May 07 18:42	0° I I		minimum elong	11957 Apr 06 03:24	21° Y 50'31	1°13'51
evening rise	11956 May 12 18:24	7° Ⅱ 46'22		max. Earth dist.	11957 Apr 11 03:27	29° Ƴ 47'53	1.45215 AU
greatest brilliancy	11956 May 23 23:55	25° Ⅱ 09'42	-0.7m		11957 Apr 11 06:31	0°8	
	11956 May 27 05:39	0ಂತ		evening rise	11957 Apr 22 08:11	17° 8 11'01	
asc. node	11956 Jun 02 13:28	8°535'59			11957 Apr 30 18:42	$\Pi^{\circ}0$	
evening max el	11956 Jun 05 03:47	11° © 29'12	19°09'07	greatest brilliancy	11957 May 07 08:54	9° Ⅱ 45'47	-0.6m
retrograde	11956 Jun 12 01:46	15° © 20'17		evening max el	11957 May 19 08:10	25° Ⅱ 14'22	20°04'02
evening set	11956 Jun 15 13:52	14° © 08'56		asc. node	11957 May 20 10:37	26° Ⅱ 17'53	
inferior conj	11956 Jun 21 00:48	8° ॐ 21'04	3°11'20	retrograde	11957 May 27 00:14	29° Ⅱ 37'59	
minimum elong	11956 Jun 21 01:41	8°9518'13	3°10'27	evening set	11957 May 30 21:43	28° Ⅱ 10′17	
min. Earth dist.	11956 Jun 22 13:10	6°9523'47	0.66655 AU	inferior conj	11957 Jun 05 05:04	22° Ⅱ 09'06	3°14'52
morning rise	11956 Jun 26 12:54	1° 9 58'22		minimum elong	11957 Jun 05 04:51	22° Ⅱ 09'50	3°14'03
	11956 Jun 29 11:38	30°RⅡ		min. Earth dist.	11957 Jun 06 03:02	20° Ⅱ 54'40	0.67835 AU
direct	11956 Jul 02 17:26	29° Ⅱ 17'06		morning rise	11957 Jun 10 11:38	15° Ⅱ 48'31	
desc. node	11956 Jul 06 00:38	29° Ⅱ 55'52		direct	11957 Jun 16 05:04	13° Ⅱ 16′15	
	11956 Jul 06 04:56	0 \circ \odot		desc. node	11957 Jun 22 21:46	15° Ⅱ 54'58	
morning max el	11956 Jul 15 10:25	6°952'51	26°06'36	morning max el	11957 Jun 27 20:19	20° Ⅱ 15′02	24°44'12
	11956 Aug 02 08:33	0 $^{\circ}\Omega$			11957 Jul 06 04:40	0ංම	
morning set	11956 Aug 20 10:23	0° m 11'27			11957 Jul 26 12:37	0°N	
	11956 Aug 20 07:55	0° m)		morning set	11957 Aug 02 15:54	12° Ω 07'31	
max. Earth dist.	11956 Aug 24 06:08	7° m 25'53	1.35142 AU	max. Earth dist.	11957 Aug 06 05:47	18° Ω 32'32	1.37258 AU
	110561 20 1615	100 *** 1011 6	0001101		11957 Aug 12 07:56	0° m)	
superior conj	11956 Aug 29 16:17	18° Mp 13'16	0°01'01		11057 1 12 01 20	10 m 2 5100	0021120
minimum elong	11956 Aug 29 16:15	18° Mp 13'01	0°00'46	superior conj	11957 Aug 13 01:29	1° Mp 25'09	
behind sun begin	11956 Aug 29 10:14	17° Mp 42'22		minimum elong	11957 Aug 13 03:34	1° Mp 35'21	0°31'43
behind sun end	11956 Aug 29 22:16	18° Mp 43'44		asc. node	11957 Aug 16 10:29	8° Mp 04'27	
asc. node	11956 Aug 29 13:47	18° Mp 00'28		evening rise	11957 Aug 21 12:22	18° m 15'48	
	11956 Sep 04 08:48	0° 亞			11957 Aug 27 13:18	0∘ ⊽	10024142
evening rise	11956 Sep 06 08:52	4° 亞 09'54 0° ጤ		evening max el	11957 Sep 07 09:10	15° ♀ 55'10 20° ♀ 39'14	19°24'42
evening max el	11956 Sep 20 21:09 11956 Sep 24 20:39	4°ML37'01	20°33'35	retrograde evening set	11957 Sep 16 21:07 11957 Sep 18 17:30	20° ⊆ 3914 20° ⊆ 29'15	
desc. node	11956 Oct 01 21:41	9°M25'19	20 33 33	desc. node	11957 Sep 18 17:30 11957 Sep 18 19:06	20° <u>₽</u> 29'13	
retrograde	11956 Oct 06 01:11	10°M10'20		inferior conj	11957 Sep 18 19:00 11957 Sep 27 09:40	20 ⊆ 28 31 16° ⊆ 22'04	-2°40'33
evening set	11956 Oct 08 05:01	9° M 58'50		minimum elong	11957 Sep 27 02:38	16° ⊆ 22'04 16° ⊆ 33'27	
inferior conj	11956 Oct 17 06:25	6°ML03'17	-4°26'52	min. Earth dist.	11957 Sep 27 02:30 11957 Sep 29 21:43	14° ⊆ 45'05	0.55645 AU
minimum elong	11956 Oct 16 20:23	6°ML17'47		morning rise	11957 Oct 05 09:26	11° ⊆ 52'04	0.55045710
min. Earth dist.	11956 Oct 18 10:57		0.54689 AU	direct	11957 Oct 10 13:36	10° £ 51'39	
morning rise	11956 Oct 25 11:22	2°M03'33		morning max el	11957 Oct 24 13:26	17° £ 54'06	25°16'15
direct	11956 Oct 29 19:29	1°M23'03			11957 Nov 03 13:33	0° M	
morning max el	11956 Nov 12 02:51	7°M50'46	23°30'13	asc. node	11957 Nov 12 11:47	14°ML48'32	
asc. node	11956 Nov 25 14:54	25°M55'43		morning set	11957 Nov 20 06:21	0° ∡ ¹27'51	
	11956 Nov 27 21:55	0° ∡ ¹		C	11957 Nov 20 01:09	0° ∡ ¹	
morning set	11956 Dec 05 18:42	15° ∡ ¹44'14					
-	11956 Dec 12 08:47	5°0		superior conj	11957 Nov 27 01:31	15° ∡ ¹22'35	1°38'33
				minimum elong	11957 Nov 27 01:06	15° ∡ ¹20′17	1°39'18
superior conj	11956 Dec 12 16:11	0° る 39'59	1°37'42	max. Earth dist.	11957 Nov 28 14:39	18° ∡ ¹46'47	1.32066 AU
minimum elong	11956 Dec 12 16:54	0° る 43'49	1°38'30		11957 Dec 03 20:31	0°ಕ	
max. Earth dist.	11956 Dec 15 11:31	6° ප් 40'08	1.33159 AU	evening rise	11957 Dec 04 05:48	0° ප 48'03	
evening rise	11956 Dec 20 08:54	16° පි 43'57		desc. node	11957 Dec 15 16:42	22° පි 24'21	
	11956 Dec 27 09:02	0° ≈			11957 Dec 20 08:35	0° ≈	
desc. node	11956 Dec 28 19:45	2° ≈ 33'53		evening max el	11958 Jan 06 00:56	21° ≈ 14'38	27°31'21
	11957 Jan 16 02:32	0° ∀		retrograde	11958 Jan 19 21:03	28° ≈ 34'29	
evening max el	11957 Jan 23 14:09	8°) 16′24	27°23'07	evening set	11958 Jan 26 20:15	26° ≈ 13′16	
retrograde	11957 Feb 06 04:52	15°) √41'30		min. Earth dist.	11958 Jan 30 14:04		0.62515 AU
evening set	11957 Feb 13 00:09	13°) € 10'39		inferior conj	11958 Feb 02 11:36	20°≈25'49	
min. Earth dist.	11957 Feb 16 20:24	9°) (41′10	0.64444 AU	minimum elong	11958 Feb 02 15:32	20°≈16′23	1°54'51
inferior conj	11957 Feb 19 07:57	7°) €02'08		asc. node	11958 Feb 08 10:39	15° ≈ 45'42	
minimum elong	11957 Feb 19 09:17	6° ¥ 58'34	0°42'52	morning rise	11958 Feb 09 13:20	15°≈17'49	
asc. node	11957 Feb 21 13:19	4°) (44'41		direct	11958 Feb 11 19:41	14°≈54'18	15045104
morning rise	11957 Feb 25 20:19	1°) € 37'32		morning max el	11958 Feb 18 12:15	18°≈18'54	17°47'04
direct	11957 Feb 28 09:16	1°) €04'27	17051156		11958 Feb 26 23:59	0° \	
morning max el	11957 Mar 06 18:47	4° H 23'39	17°51'56	morning set	11958 Mar 06 10:51	12° ¥ 52'19	
morning set	11957 Mar 23 22:08	0° Ƴ 05'09 0° Ƴ		desc. node	11958 Mar 13 17:38	25°) 34′24 0° °	
	11957 Mar 23 20:54	UI			11958 Mar 16 07:59	U I	

	11050 M 10 02 07	200001120	0022116		11050 F.1. 10. 14.50	001/	
superior conj	11958 Mar 18 03:07	3° Υ '01'28 2° Υ '47'41			11959 Feb 19 14:58	0° ∺	
minimum elong max. Earth dist.	11958 Mar 17 23:50 11958 Mar 24 20:49	14° Υ 04'33	0°32'45 1.44009 AU	gymanian aani	11959 Feb 27 19:29	14°){ 49'44	0°06'06
evening rise	11958 Mar 24 20:49 11958 Apr 01 21:07	26° Υ 42'18	1.44009 AU	superior conj minimum elong	11959 Feb 27 19:29 11959 Feb 27 20:00	14° X 49'44 14° X 52'03	0°06'18
evening rise	11958 Apr 04 00:32	0° 8		behind sun begin	11959 Feb 27 20:00 11959 Feb 27 12:40	14 X 32 03	0 00 18
	11958 Apr 04 00:32 11958 Apr 24 17:03	0°II		behind sun end	11959 Feb 28 03:21	15° H 24'22	
evening max el	11958 May 02 06:49	9° П 00'37	21°12'06	desc. node	11959 Feb 28 14:12	15 X 2422 16° X 12'00	
asc. node	11958 May 07 07:49	13° Ⅱ 00'37	21 12 00	max. Earth dist.	11959 Mar 07 09:49	27°\(\frac{1}{50}\)'01	1.42247 AU
retrograde	11958 May 10 22:52	13 H 02 28		max. Larm dist.	11959 Mar 08 17:16	0° Υ	1.42247 AO
evening set	11958 May 15 06:32	12° П 20'54		evening rise	11959 Mar 12 23:12	6°Υ′52'42	
inferior conj	11958 May 20 12:52	6° П 07'59	3°06'40	evening rise	11959 Mar 28 05:21	0°8	
minimum elong	11958 May 20 11:43	6° Ⅱ 12'00	3°05'50	evening max el	11959 Apr 15 00:24	22° 8 47'14	22°29'14
min. Earth dist.	11958 May 20 21:12	5° ∏ 39'03	0.68543 AU	asc. node	11959 Apr 24 05:05	28° 8 33'15	, _,
morning rise	11958 May 25 16:41	29° 8 51'49		retrograde	11959 Apr 24 19:59	28° 8 35'04	
S	11958 May 25 13:03	30°R ∀		evening set	11959 Apr 29 14:38	26° 8 35'54	
direct	11958 May 30 21:22	27° 8 35'28		inferior conj	11959 May 04 22:09	20° 8 13'32	2°48'00
	11958 Jun 05 23:25	$\Pi^{\circ}0$		minimum elong	11959 May 04 20:19	20° 8 19'56	2°47'04
desc. node	11958 Jun 09 18:48	3° Ⅱ 16'35		min. Earth dist.	11959 May 04 17:36	20° 8 29'21	0.68784 AU
morning max el	11958 Jun 10 06:31	3° Ⅱ 45'45	23°14'48	morning rise	11959 May 10 01:53	14° 8 03'10	
_	11958 Jun 30 08:20	0 \circ \odot		direct	11959 May 14 17:17	12° 8 06'44	
morning set	11958 Jul 14 23:21	23°503'14		morning max el	11959 May 23 19:47	17° 8 25'04	21°47'17
max. Earth dist.	11958 Jul 19 03:29	0° Ω 08'57	1.39572 AU	desc. node	11959 May 27 15:42	21° 8 37'57	
	11958 Jul 19 01:25	$0^{\circ}\Omega$			11959 Jun 03 04:10	$\Pi^{\circ}0$	
					11959 Jun 23 10:17	0 \circ \odot	
superior conj	11958 Jul 26 20:16	13° Ω 55'46	-1°05'47	morning set	11959 Jun 25 05:06	2° 5 49'48	
minimum elong	11958 Jul 27 00:55	14° Ω 17'17	1°05'42	max. Earth dist.	11959 Jul 01 04:48	12° 5 33'51	1.41809 AU
asc. node	11958 Aug 03 07:13	28° Ω 02'57					
	11958 Aug 04 07:31	0° ™		superior conj	11959 Jul 08 20:05	25° © 33'57	-1°37'58
evening rise	11958 Aug 05 08:08	1° m 58'37		minimum elong	11959 Jul 09 02:43	26° © 02'57	1°37'58
evening max el	11958 Aug 21 09:50	27° m 59'16	18°37'19		11959 Jul 11 08:26	0 \circ Ω	
	11958 Aug 23 18:14	0∘ ⊽		evening rise	11959 Jul 19 16:22	15° Ω 07'56	
retrograde	11958 Aug 29 11:06	2° ≙ 01'57		asc. node	11959 Jul 21 03:58	17° Ω 51′26	
evening set	11958 Aug 31 10:29	1° ≏ 48'09			11959 Jul 28 00:20	0° m)	
	11958 Sep 04 14:25	30°R, Mp		evening max el	11959 Aug 04 18:45	10° m 40'38	18°10'44
desc. node	11958 Sep 05 16:32	29° m 18'12	0050120	retrograde	11959 Aug 11 19:52	14° m 15'25	
inferior conj	11958 Sep 08 09:00	27° m 21'34		evening set	11959 Aug 14 02:16	13° m 53'44	0042110
minimum elong	11958 Sep 08 06:58 11958 Sep 11 13:47	27° Tp 25'25		inferior conj	11959 Aug 21 05:58	9° Mp 06'36	0°42'10
min. Earth dist.		24° m 57'10 22° m 13'46	0.57346 AU	minimum elong	11959 Aug 21 07:19	9°M)03'37	0°41'19
morning rise direct	11958 Sep 16 00:01 11958 Sep 21 21:30	22 IIJ 13 46 20° Mp 47'26		desc. node min. Earth dist.	11959 Aug 23 13:57 11959 Aug 24 13:28	7°M)02'28	0.59495 AU
morning max el	11958 Oct 06 04:44	28° m) 17'07	26°44'24	morning rise	11959 Aug 24 13.28 11959 Aug 28 09:04	3° m/25'29	0.39493 AO
morning max cr	11958 Oct 07 21:32	0° <u>م</u>	20 44 24	direct	11959 Sep 03 19:04	1° m ₀ 30'29	
	11958 Oct 07 21:32 11958 Oct 28 04:46	0° m .		morning max el	11959 Sep 18 03:27	9° my 20'18	27°40'22
asc. node	11958 Oct 30 08:36	4°M08'32		morning max or	11959 Oct 04 00:29	0∘ ত	27 1022
morning set	11958 Nov 04 16:20	15°M03'28		asc. node	11959 Oct 17 05:19	23° ♀ 47'50	
	11958 Nov 11 11:28	0° ⊼		morning set	11959 Oct 19 22:53	29° £ 26'04	
				8 - 1	11959 Oct 20 05:19	0°M₊	
superior conj	11958 Nov 11 12:54	0° ∡ '07'57	1°33'26	max. Earth dist.	11959 Oct 26 07:23	13°M15'23	1.31342 AU
minimum elong	11958 Nov 11 11:31	0° ∡ 00'19	1°34'01				
max. Earth dist.	11958 Nov 11 22:30	1° ∡ 01'32	1.31458 AU	superior conj	11959 Oct 27 00:27	14°M50'26	1°22'40
evening rise	11958 Nov 18 09:28	15° ∡ ¹08′22		minimum elong	11959 Oct 26 22:26	14° M 39'10	1°22'57
	11958 Nov 25 19:59	8°0		evening rise	11959 Nov 02 17:37	29°M38'45	
desc. node	11958 Dec 02 13:44	11° る 45'42			11959 Nov 02 21:35	0° ∡ ¹	
	11958 Dec 15 20:43	0° ≈		desc. node	11959 Nov 19 10:53	0° る 26'36	
evening max el	11958 Dec 19 06:36	3° ≈ 30′17	27°06'17		11959 Nov 19 03:49	8°0	
retrograde	11959 Jan 02 04:44	10° ≈ 42′20		evening max el	11959 Dec 01 04:39	14° る 54'49	26°07'14
evening set	11959 Jan 09 01:28	8° ≈ 39'07		retrograde	11959 Dec 15 02:52	21°る58'50	
min. Earth dist.	11959 Jan 12 21:00	5°≈57'10		evening set	11959 Dec 21 11:39	20° පි 22'16	
inferior conj	11959 Jan 16 00:46	3°≈18'49		min. Earth dist.	11959 Dec 25 17:41	17°る46'41	0.58276 AU
minimum elong	11959 Jan 16 07:33	3°≈04'35	3°12'46	inferior conj	11959 Dec 28 19:57	15° る 31'47	
	11959 Jan 20 09:59	30°₹₹		minimum elong	11959 Dec 29 04:22	15°る16'29	4°29'25
morning rise	11959 Jan 23 16:28	28° る 30'46		morning rise	11960 Jan 05 23:50	11° ろ 05'59	
direct	11959 Jan 25 18:59	28° ろ 13'19		direct	11960 Jan 08 02:46	10°る51'10	
asc. node	11959 Jan 26 07:57	28°る14'30		asc. node	11960 Jan 13 05:10	12° る 22'23	10024141
	11959 Jan 30 21:07	0°≈ 1°2 252150	10000147	morning max el	11960 Jan 16 10:57	14°る55'53	18~34'41
morning max el	11959 Feb 02 02:52	1°≈52'58 26°≈27'53	18°00'47	morning set	11960 Jan 26 20:27	0° ≈ 10° ≈ 36'44	
morning set	11959 Feb 17 17:04	∠u ≈ ∠/33		morning set	11960 Feb 01 11:33	10 ≈ >0'44	

superior conj	11960 Feb 10 08:55	27°≈36'53	0°39'20		11961 Jan 18 00:35	0° ≈	
minimum elong	11960 Feb 10 11:25	27°≈48'30	0°39'28		11701 3411 10 00.55	0 / 0 /	
	11960 Feb 11 15:50	0°) €		superior conj	11961 Jan 23 14:31	11° ≈ 08'06	1°05'07
desc. node	11960 Feb 15 10:49	6° ¥ 51'26		minimum elong	11961 Jan 23 17:26	11° ≈ 22'23	1°05'24
max. Earth dist.	11960 Feb 17 17:59	10°) 53′40	1.40130 AU	max. Earth dist.	11961 Jan 29 23:59	23° ≈ 16'59	1.37902 AU
evening rise	11960 Feb 21 21:48	17° ¥ 58'40		desc. node	11961 Feb 01 07:31	27° ≈ 28′30	
	11960 Feb 29 08:35	0° Y		evening rise	11961 Feb 02 17:26	29° ≈ 58'57	
	11960 Mar 21 16:30	0°8			11961 Feb 02 17:40	0° ∀	
evening max el	11960 Mar 27 14:54	6° 8 36'29	23°49'56		11961 Feb 21 15:41	0° Υ	
retrograde	11960 Apr 07 14:16	13° 8 04'09		evening max el	11961 Mar 10 04:25	20° Y 27'44	25°07'41
asc. node	11960 Apr 10 02:25	12° 8 35'05		retrograde	11961 Mar 22 04:25	27° Y °25'37	
evening set	11960 Apr 12 20:28	10° 8 51'30	0.60574.444	evening set	11961 Mar 27 22:27	25°Υ02'06	
min. Earth dist.	11960 Apr 17 14:11	5° 8 20'28	0.68574 AU	asc. node	11961 Mar 27 23:48	24° Υ 59'14	0.67022.444
inferior conj	11960 Apr 18 07:02	4° 8 22'55 4° 8 30'17	2°19'27 2°18'28	min. Earth dist.	11961 Apr 01 08:41	20° Υ 06'25 18° Υ 31'45	0.67932 AU 1°41'06
minimum elong	11960 Apr 18 04:53 11960 Apr 21 18:18	4 3 30 17 30° R Υ	2 10 20	inferior conj minimum elong	11961 Apr 02 13:38 11961 Apr 02 11:37	18° Y 38'21	1°40'14
morning rise	11960 Apr 21 18:18 11960 Apr 23 13:20	28° Υ 19'30		morning rise	11961 Apr 02 11:37 11961 Apr 08 01:05	12° Υ 36'36	1 40 14
direct	11960 Apr 27 15:48	26° Υ 44'21		direct	11961 Apr 11 15:28	11° Y °22'07	
uncer	11960 May 04 06:52	0°8		morning max el	11961 Apr 18 18:08	15°Υ17'06	19°23'52
morning max el	11960 May 05 15:09	1° 8 15'41	20°28'46	desc. node	11961 Apr 30 09:15	0° 8 19'53	17 23 32
desc. node	11960 May 13 12:31	10° 8 43'09			11961 Apr 30 03:49	0°8	
	11960 May 26 21:18	0°II		greatest brilliancy	11961 May 01 11:40	1° 8 57'04	-0.7m
morning set	11960 Jun 03 12:12	11° Ⅲ 37'51		morning set	11961 May 13 12:41	20° 8 13'32	
max. Earth dist.	11960 Jun 12 12:25	25° Ⅱ 49'40	1.43705 AU	C	11961 May 19 20:16	0°II	
	11960 Jun 15 02:21	0 \circ \odot		max. Earth dist.	11961 May 26 02:29	9° Ⅱ 47'47	1.45047 AU
superior conj	11960 Jun 18 20:59	6° © 12′09		superior conj	11961 May 29 22:17	15° ∐ 51'22	
minimum elong	11960 Jun 19 02:53	6°536'41	2°03'13	minimum elong	11961 May 29 22:47	15° Ⅱ 53'20	2°14'07
evening rise	11960 Jul 01 08:27	27°932'30			11961 Jun 07 16:23	0.20 0.20	
1	11960 Jul 02 18:11	0°Ω		evening rise	11961 Jun 13 03:22	9°500'53	
asc. node	11960 Jul 07 00:49	7° Ω 25'25	10002142	asc. node	11961 Jun 23 21:46	26° © 39'07 0° Ω	
evening max el retrograde	11960 Jul 18 07:59 11960 Jul 24 19:51	23° Ω 49'56 27° Ω 11'23	18°03'43	evening max el	11961 Jun 26 02:56 11961 Jul 01 22:02	7° Ω 18'00	18°15'19
evening set	11960 Jul 24 19:31 11960 Jul 27 10:21	26°Ω38'20		retrograde	11961 Jul 08 06:42	10°Ω40'22	16 13 19
inferior conj	11960 Aug 02 21:50	21° Ω 32'02	1°50'42	evening set	11961 Jul 11 05:28	9° Ω 53'25	
minimum elong	11960 Aug 03 00:25	21° Ω 25'28	1°49'20	inferior conj	11961 Jul 17 04:29	4° Ω 29'41	2°36'28
min. Earth dist.	11960 Aug 05 22:06	18° Ω 29'58	0.61780 AU	minimum elong	11961 Jul 17 06:53	4°Ω22'52	
desc. node	11960 Aug 09 11:20	15° Ω 29'21		min. Earth dist.	11961 Jul 19 16:02	1° Ω 41'21	0.63931 AU
morning rise	11960 Aug 09 12:03	15° Ω 28'05			11961 Jul 21 06:48	30° ₹ 55	
direct	11960 Aug 16 04:12	13° Ω 08'00		morning rise	11961 Jul 23 06:49	28°513'01	
morning max el	11960 Aug 30 08:38	21° Ω 08′59	27°57'50	desc. node	11961 Jul 27 08:39	25° © 59'22	
	11960 Sep 07 01:03	0° m		direct	11961 Jul 29 22:29	25° © 36'38	
	11960 Sep 26 02:07	0∘ ⊽			11961 Aug 08 18:12	0 $^{\circ}\Omega$	
morning set	11960 Oct 03 00:01	13° 亞 30′18		morning max el	11961 Aug 12 17:54	3° Ω 37'54	27°38'05
asc. node	11960 Oct 03 02:00	13° ≏ 40'32			11961 Sep 01 12:51	0° ™	
max. Earth dist.	11960 Oct 08 13:29	25° ≏ 18'29	1.31742 AU	morning set	11961 Sep 16 17:23	27° m 10'19	
					11961 Sep 18 03:14	0∘ ⊽	
superior conj	11960 Oct 10 10:22	29° ₽ 24'28	1°06'25	asc. node	11961 Sep 19 22:40	3° Ω 41'59	1 22666 111
minimum elong	11960 Oct 10 08:07 11960 Oct 10 16:49	29° ₽ 12'04	1°06'24	max. Earth dist.	11961 Sep 21 13:11	7° ჲ 02'39	1.32666 AU
evening rise	11960 Oct 10 16:49 11960 Oct 17 04:19	0°ጤ 14°ጤ13'46		superior conj	11961 Sep 24 16:41	13° ≏ 44'46	0°44'52
evening rise	11960 Oct 17 04.19 11960 Oct 24 23:00	0° √		minimum elong	11961 Sep 24 16.41 11961 Sep 24 14:45	13° £ 34'19	0°44'37
desc. node	11960 Oct 24 23:00 11960 Nov 05 08:08	18° ∡ 10'51		evening rise	11961 Oct 01 15:40	28° £ 48'36	0 44 37
evening max el	11960 Nov 11 18:42		24°40'14	evening rise	11961 Oct 02 05:04	0°M	
evening max er	11960 Nov 17 13:48	0° 궁	24 40 14		11961 Oct 19 06:08	0° ⊼	
retrograde	11960 Nov 25 13:16	2° る 23'36		desc. node	11961 Oct 23 05:27	4° ∡ ³37'26	
evening set	11960 Nov 30 22:24	1° る 19'15		evening max el	11961 Oct 24 05:08		22°59'27
٥	11960 Dec 03 18:16	30°R ✓		retrograde	11961 Nov 06 10:24	12° √ 11'11	
min. Earth dist.	11960 Dec 06 06:21	28° ∡ ′32′12	0.56400 AU	evening set	11961 Nov 10 10:26	11° ∡ ³36′23	
inferior conj	11960 Dec 08 18:41	26° ∡ ¹56′27		min. Earth dist.	11961 Nov 17 14:12	8° ∡ 19'35	0.55079 AU
minimum elong	11960 Dec 09 00:53	26° ∡ ¹46'35	5°29'56	inferior conj	11961 Nov 18 22:17	7° ∡ ³33'31	-5°51'10
morning rise	11960 Dec 17 05:31	22° ∡ ′51'55		minimum elong	11961 Nov 18 21:04	7° ∡ ³35'17	5°50'24
direct	11960 Dec 19 15:30	22° х 35′56		morning rise	11961 Nov 27 09:15	3° х ⁴44′03	
morning max el	11960 Dec 29 08:22	27° ∡ 15'14	19°30'38	direct	11961 Nov 30 10:16	3° ∡ °22'20	
asc. node	11960 Dec 30 02:18	27° ∡ 759'58		morning max el	11961 Dec 11 16:04	8° ≯ 42'41	20°49'31
	11960 Dec 31 21:17	0°る		asc. node	11961 Dec 16 23:22	14° √ 51'41	
morning set	11961 Jan 15 14:15	25° る 06'13			11961 Dec 26 01:08	0°₹	

morning set	11961 Dec 30 22:13	9° ට 48'03		morning set	11962 Dec 15 09:05	24° ∡ ³34'55	
				-	11962 Dec 17 22:04	ರ°ರ	
superior conj	11962 Jan 07 07:58	25° る 11'25	1°23'20				
minimum elong	11962 Jan 07 10:21	25° る 23'36	1°23'51	superior conj	11962 Dec 22 09:42	9° る 36'26	
	11962 Jan 09 16:52	0° ≈		minimum elong	11962 Dec 22 11:04	9° ප් 43'42	1°35'06
max. Earth dist.	11962 Jan 12 08:46	5°≈15'51	1.35801 AU	max. Earth dist.	11962 Dec 26 00:08	17° පි 08'54	1.34005 AU
evening rise	11962 Jan 16 07:24	12°≈45'47		evening rise	11962 Dec 30 11:58	26° පි 09'11	
desc. node	11962 Jan 19 04:17	17°≈59'26			11963 Jan 01 12:04	0° ≈	
	11962 Jan 26 05:06	0°) €		desc. node	11963 Jan 06 01:09	8°≈19'29	
	11962 Feb 16 16:27	0°Υ 4° Ω 1.7100	2 (01 5100	. 1	11963 Jan 19 14:32	0°) (55147	27005104
evening max el	11962 Feb 20 18:05	4° Υ 17'08 11° Υ 33'26	26°15'08	evening max el	11963 Feb 03 07:41	17° ¥ 55'47 25° ¥ 20'04	27°05'04
retrograde	11962 Mar 05 13:28	9° Υ 02'41		retrograde	11963 Feb 16 16:40 11963 Feb 23 07:54	23° H 20'04 22° H 47'08	
evening set asc. node	11962 Mar 11 18:54 11962 Mar 14 21:11	5° Υ 57'37		evening set min. Earth dist.	11963 Feb 23 07.34 11963 Feb 27 06:32	18°) 59'58	0.65434 AU
min. Earth dist.	11962 Mar 15 22:52	4° Υ 41'52	0.66877 AU	inferior conj	11963 Mar 01 11:36	16° X 30'11	
inferior conj	11962 Mar 17 15:55	2° Υ 35'56	0.00877 AC 0°52'47	minimum elong	11963 Mar 01 11:45	16° X 29'45	0°05'19
minimum elong	11962 Mar 17 14:37	2° Υ 39'54	0°52'20	transit middle	11963 Mar 01 11:45	16° X 29'45	0°05'19
minimum ciong	11962 Mar 19 20:37	30°R ₩	0 32 20	transit begin	11963 Mar 01 08:56	16°) (2)'45	0 03 17
morning rise	11962 Mar 23 11:08	26° ¥ 50'55		transit end	11963 Mar 01 14:35	16°) €21'45	
direct	11962 Mar 26 14:34	25°\(\frac{1}{25}\)55'00		asc. node	11963 Mar 01 18:33	16°) 10'33	
morning max el	11962 Apr 02 04:18	29° ¥ 26'21	18°34'54	morning rise	11963 Mar 07 17:05	10°) 57′36	
5 5	11962 Apr 02 17:41	0° Υ		direct	11963 Mar 10 10:54	10°) (17'12	
desc. node	11962 Apr 17 05:57	20° Y ′19'53		morning max el	11963 Mar 16 19:39	13°) € 37'23	18°02'44
morning set	11962 Apr 23 05:13	29° Y '41'33			11963 Mar 28 14:02	$0^{\circ}\Upsilon$	
C	11962 Apr 23 09:55	0°B		morning set	11963 Apr 04 01:55	10° Ƴ 34'02	
	•			desc. node	11963 Apr 04 02:36	10° Ƴ 36'48	
superior conj	11962 May 09 07:22	24° 8 53'25	-2°04'17		11963 Apr 16 03:09	9° 8	
minimum elong	11962 May 09 00:28	24° 8 26'26	2°04'33				
max. Earth dist.	11962 May 08 21:11	24° 8 13'37	1.45700 AU	superior conj	11963 Apr 18 16:53	4° 8 04'07	-1°36'22
	11962 May 12 13:44	Π $^{\circ}0$		minimum elong	11963 Apr 18 07:36	3° 8 27'32	1°35'49
evening rise	11962 May 24 22:03	19° Ⅱ 28'43		max. Earth dist.	11963 Apr 21 17:33	8° 8 49'38	1.45602 AU
	11962 May 31 12:59	0 \circ		evening rise	11963 May 04 19:30	29° 8 08'36	
greatest brilliancy	11962 Jun 02 02:12	2° 5 26'41	-0.8m		11963 May 05 08:50	Π $^{\circ}0$	
asc. node	11962 Jun 10 18:48	15° © 24'52		greatest brilliancy	11963 May 17 23:08	19° Ⅱ 11'41	-0.7m
evening max el	11962 Jun 15 09:52	20°956'32	18°44'39		11963 May 25 16:08	0°€	
retrograde	11962 Jun 22 00:30	24°533'25		asc. node	11963 May 28 15:55	3°533'40	
evening set	11962 Jun 25 07:41	23°931'02		evening max el	11963 May 29 17:19	4°540'17	19°30'38
inferior conj	11962 Jun 30 22:01	17°951'25	3°03'11	retrograde	11963 Jun 05 22:06	8°5544'06	
minimum elong	11962 Jun 30 23:31	17°5546'44	3°02'11	evening set	11963 Jun 09 14:08	7°525'38	201.4122
min. Earth dist.	11962 Jul 02 18:50	15°532'41	0.65774 AU	inferior conj	11963 Jun 14 23:10	1°531'41	3°14'22
morning rise	11962 Jul 06 14:34 11962 Jul 13 00:16	11° © 29'31 8° © 47'21		minimum elong	11963 Jun 14 23:34 11963 Jun 16 05:13	1° © 30′20 29° ∏ 52′21	3°13'33 0.67209 AU
direct desc. node	11962 Jul 13 00:16 11962 Jul 14 05:56	8°952'45		min. Earth dist.	11963 Jun 16 03:13	29 Ⅲ 32 21 30°R Ⅲ	0.07209 AU
morning max el	11962 Jul 14 03:30 11962 Jul 26 04:47		26°47'00	morning rise	11963 Jun 20 08:35	25° ∏ 09'30	
morning max ci	11962 Aug 06 07:21	0°Ω	20 47 00	direct	11963 Jun 26 08:31	22° I I31'25	
	11962 Aug 25 09:37	0° m)		desc. node	11963 Jul 01 03:05	23° II 52'22	
morning set	11962 Aug 30 23:54	10° mp 17'30		morning max el	11963 Jul 08 15:27	29° ∏ 53'08	25°33'09
max. Earth dist.	11962 Sep 04 03:31	18° m) 23'44	1.34104 AU		11963 Jul 08 18:09	0.ಪ	
asc. node	11962 Sep 06 19:20	23° m/47'15			11963 Jul 31 04:29	$0^{\circ}\Omega$	
	ī	•		morning set	11963 Aug 13 15:50	22° Ω 42'47	
superior conj	11962 Sep 08 17:01	27° m/43'50	0°18'20	max. Earth dist.	11963 Aug 17 07:48		1.36003 AU
minimum elong	11962 Sep 08 16:04	27° m/38'51	0°18'01		11963 Aug 17 14:11	0° m	
-	11962 Sep 09 19:02	0∘ ⊽			-		
evening rise	11962 Sep 16 01:42	13° ≏ 16'48		superior conj	11963 Aug 23 08:38	11°Mp14'55	-0°12'30
	11962 Sep 24 13:30	0° M		minimum elong	11963 Aug 23 09:25	11°Mp18'50	0°12'41
evening max el	11962 Oct 05 20:43	15°M49'33	21°22'22	behind sun begin	11963 Aug 23 05:31	10° m 59'18	
desc. node	11962 Oct 10 02:51	19° ™ 18'34		behind sun end	11963 Aug 23 13:19	11°M 38'23	
retrograde	11962 Oct 17 22:28	21°M49'36		asc. node	11963 Aug 24 16:01	13° m 52'46	
evening set	11962 Oct 20 14:39	21°M33'06		evening rise	11963 Aug 31 08:17	27° m 32'39	
inferior conj	11962 Oct 29 14:42	17° M 38′14			11963 Sep 01 13:13	0∘ ত	
minimum elong	11962 Oct 29 05:58	17° ™ 50′29		evening max el	11963 Sep 18 00:58	26° △ 39'38	20°01'37
min. Earth dist.	11962 Oct 29 20:40	17°M29'51	0.54566 AU		11963 Sep 22 05:07	0°M	
morning rise	11962 Nov 06 22:06	13°M48'45		desc. node	11963 Sep 27 00:14	1°M46'10	
direct	11962 Nov 10 18:37	13°M 16'45	2202017	retrograde	11963 Sep 28 12:22	1°M52'23	
morning max el	11962 Nov 23 10:31	19°M19'59	22°28'16	evening set	11963 Sep 30 11:04	1°M42'23	
000 mc 1-	11962 Dec 02 03:03	0° 🗷 2° ⋅ 🗷 40′47		infonia	11963 Oct 05 08:58	30° ₹ Ω	201115
asc. node	11962 Dec 03 20:22	2° ∡ ¹40'47		inferior conj	11963 Oct 09 10:04	27° ≏ 42'51	-3~44'15

minimum elong	11963 Oct 09 00:42	27° £ 56'59	3°40'51	minimum elong	11964 Sep 18 16:21	8° ≏ 26'00	1°50'45
min. Earth dist.	11963 Oct 11 05:19	26° ♀ 37'41	0.54987 AU	min. Earth dist.	11964 Sep 21 18:24	6° ₽ 18'33	0.56284 AU
morning rise	11963 Oct 17 13:07	23° ₽ 31'57		morning rise	11964 Sep 26 17:39	3° ≙ 31'17	
direct	11963 Oct 22 05:39	22° - 44′07		direct	11964 Oct 02 05:31	2° ჲ 20'19	
morning max el	11963 Nov 04 21:45	29° ≏ 27'27	24°16'26	morning max el	11964 Oct 16 09:47	9° ჲ 36'19	25°56'59
C	11963 Nov 05 11:19	0°M		C	11964 Oct 31 19:30	0° M	
asc. node	11963 Nov 20 17:15	21°M13'39		asc. node	11964 Nov 06 14:05	10°M19'15	
	11963 Nov 25 08:33	0° ∡ ¹		morning set	11964 Nov 13 08:05	24°M02'43	
morning set	11963 Nov 29 20:56	9° ∡ 121′24			11964 Nov 16 01:51	0° ∡ ¹	
superior conj	11963 Dec 06 16:56	24° ∡ 14'59	1°38'49	superior conj	11964 Nov 20 03:24	9° ∡ 700′19	1°37'05
minimum elong	11963 Dec 06 17:09	24° x 143)	1°39'36	minimum elong	11964 Nov 20 02:33	8° 1 55'36	1°37'48
max. Earth dist.	11963 Dec 08 23:11	29° × ⁷ 09'02	1.32633 AU	max. Earth dist.	11964 Nov 21 04:32	11° x 19'27	1.31738 AU
max. Dartii dist.	11963 Dec 09 08:41	0°る	1.52055 110	evening rise	11964 Nov 27 03:50	24°×713'12	1.51750710
evening rise	11963 Dec 14 03:45	10° ろ 00'46		evening rise	11964 Nov 29 23:35	0°ਰ	
desc. node	11963 Dec 23 22:03	28° る 22'56		desc. node	11964 Dec 09 19:03	18° る 02'49	
	11963 Dec 24 20:37	0° ≈			11964 Dec 17 12:55	0° ≈	
	11964 Jan 15 14:33	0°) €		evening max el	11964 Dec 29 04:42	13° ≈ 53'57	27°24'58
evening max el	11964 Jan 16 19:51	1°) 11'51	27°30'21	retrograde	11965 Jan 12 02:24	21° ≈ 11'34	
retrograde	11964 Jan 30 13:18	8° ¥ 35'51		evening set	11965 Jan 19 01:20	18° ≈ 56'51	
evening set	11964 Feb 06 11:01	6°) €07'42		min. Earth dist.	11965 Jan 22 19:04	16°≈04'41	0.61626 AU
min. Earth dist.	11964 Feb 10 05:45	2°) 51′02	0.63654 AU	inferior conj	11965 Jan 25 19:57	13° ≈ 19'56	-2°30'06
inferior conj	11964 Feb 12 21:59	0° ∺ 07′20	-1°13'55	minimum elong	11965 Jan 26 01:08	13° ≈ 08′12	2°27'26
minimum elong	11964 Feb 13 00:21	0° ∺ 01'16	1°12'27	morning rise	11965 Feb 02 03:42	8° ≈ 20′10	
	11964 Feb 13 00:51	30° R ≈		asc. node	11965 Feb 02 13:12	8° ≈ 13′29	
asc. node	11964 Feb 16 15:54	26° ≈ 37'35		direct	11965 Feb 04 07:50	7° ≈ 59'48	
morning rise	11964 Feb 19 15:54	24° ≈ 49'46		morning max el	11965 Feb 11 06:05	11° ≈ 29′53	17°50'30
direct	11964 Feb 22 01:44	24° ≈ 21'17			11965 Feb 23 15:18	0° ∀	
morning max el	11964 Feb 28 13:19	27° ≈ 41′26	17°47'43	morning set	11965 Feb 26 22:39	5° ¥ 55'04	
	11964 Mar 01 15:45	0° ∀		desc. node	11965 Mar 07 19:47	21°) 40′33	
morning set	11964 Mar 16 01:42	22°) 44'35				>	
	11964 Mar 20 07:50	0°Υ 1° 20 ° 415°		superior conj	11965 Mar 09 21:49	25°¥15'56	
desc. node	11964 Mar 20 23:11	1° Y ′04'59		minimum elong	11965 Mar 09 20:21	25°) €09'38	0°15'41
	1106414 20 10 15	1.400005146	0057114	behind sun begin	11965 Mar 09 18:38	25°) €02'20	
superior conj	11964 Mar 28 19:15	14° Y 05'46 13° Y 41'22		behind sun end	11965 Mar 09 22:03 11965 Mar 12 16:54	25° 升 16'57 0° ⋎	
minimum elong max. Earth dist.	11964 Mar 28 13:15 11964 Apr 03 12:14	23° Y 16'27	1.44775 AU	max. Earth dist.	11965 Mar 12 16:54 11965 Mar 17 03:21	0° γ 7° Υ 19'47	1.43320 AU
max. Earm dist.	11964 Apr 07 18:47	0°8	1.44//3 AU	evening rise	11965 Mar 24 00:07	18° Υ 16'27	1.43320 AU
evening rise	11964 Apr 13 06:56	8° 8 31'11		evening rise	11965 Mar 31 15:58	0°8	
evening rise	11964 Apr 27 15:03	0°Ⅱ			11965 Apr 22 13:46	0°II	
evening max el	11964 May 11 19:06	18° Ⅲ 25'37	20°31'31	evening max el	11965 Apr 24 15:27	2° Ⅱ 12'11	21°44'05
asc. node	11964 May 14 13:07	20° I 53'09	20 3131	asc. node	11965 May 01 10:21	7° I 108'32	2100
retrograde	11964 May 19 20:59	23° I I06'20		retrograde	11965 May 03 19:09	7° I 35'07	
evening set	11964 May 23 22:36	21° Ⅲ 31'45		evening set	11965 May 08 07:18	5° Ⅱ 44'51	
inferior conj	11964 May 29 05:13	15° Ⅲ 25′07	3°12'43	Č	11965 May 13 04:37	30°R₩	
minimum elong	11964 May 29 04:34	15° Ⅲ 27'19	3°11'55	inferior conj	11965 May 13 13:54	29° 8 27'38	2°59'59
min. Earth dist.	11964 May 29 21:15	14° Ⅱ 29'56	0.68191 AU	minimum elong	11965 May 13 12:25	29° 8 32'48	2°59'05
morning rise	11964 Jun 03 10:16	9° Ⅱ 05'57		min. Earth dist.	11965 May 13 16:46	29° 8 17'40	0.68705 AU
direct	11964 Jun 08 22:17	6° Ⅲ 39'50		morning rise	11965 May 18 17:20	23° 8 13'32	
desc. node	11964 Jun 17 00:09	10° Ⅲ 29'35		direct	11965 May 23 16:24	21° 8 05'07	
morning max el	11964 Jun 20 01:22	13° Ⅱ 19'47	24°06'26	morning max el	11965 Jun 02 12:19	26° 8 53'29	22°36'41
	11964 Jul 03 12:55	0 \circ \odot		desc. node	11965 Jun 03 21:07	28° 8 18'54	
	11964 Jul 23 00:38	0 ° Ω			11965 Jun 05 09:33	Π °0	
morning set	11964 Jul 25 12:32	4° Ω 14'43			11965 Jun 27 02:32	0ა ௐ	
max. Earth dist.	11964 Jul 29 05:26	10° Ω 44'05	1.38228 AU	morning set	11965 Jul 06 09:13	14° © 41'15	
				max. Earth dist.	11965 Jul 11 03:31	22° © 37'22	1.40550 AU
superior conj	11964 Aug 05 12:09	24° Ω 09'57			11965 Jul 15 10:07	0 \circ Ω	
minimum elong	11964 Aug 05 15:19	24° Ω 25'04	υ~46'07		11075 1 1 10 22 24	(0 0 10100	1010/50
aga mad-	11964 Aug 08 12:47	0°M)		superior conj	11965 Jul 18 23:24	6° Ω 19'33	
asc. node	11964 Aug 10 12:44	3° Mp 54'51		minimum elong	11965 Jul 19 05:04	6° Ω 45'07	1-19.23
evening rise	11964 Aug 14 08:51	11° Mp 29'29		asc. node	11965 Jul 28 09:30	23° Ω 49'35	
evening max el	11964 Aug 24 10:41 11964 Aug 30 19:02	0° ჲ 8° ჲ 17'57	19°01'59	evening rise	11965 Jul 29 00:10 11965 Jul 31 16:12	24° Ω 58'56 0° m	
retrograde	11964 Aug 30 19.02 11964 Sep 08 15:21	8 ≅ 1737 12° ♀ 43'09	17 01 37	evening max el	11965 Aug 13 23:46	رانا 0 20° m 39'23	18°23'36
evening set	11964 Sep 10 11:58	12 ⊆ 43 09 12° ⊆ 32'13		retrograde	11965 Aug 21 13:13	20 m/3923 24°m/27'59	10 23 30
desc. node	11964 Sep 12 21:38	12 ⊆ 32 13		evening set	11965 Aug 23 15:27	24° my 11'14	
inferior conj	11964 Sep 18 21:13	8° ≏ 17'36	-1°52'43	desc. node	11965 Aug 30 19:04	19° m) 57'49	
	этр 10 21.15				17.07	-> 19(2) 17	

	11065 4 21 05 40	100 m 20110	0000110		11066 4 04 05 02	70 m. 01120	
inferior conj	11965 Aug 31 05:49	19° Mp 36'10		retrograde	11966 Aug 04 05:03	7° Mp 01'39	
minimum elong	11965 Aug 31 05:30	19° Mp 36'48	0°08'25	evening set	11966 Aug 06 15:00	6° Mp 35'20	101.411.0
transit middle	11965 Aug 31 05:30	19° Mp 36'48	0°08'25	inferior conj	11966 Aug 13 11:20	1° m/39'36	1°14'13
transit begin	11965 Aug 31 02:29	19° m 42'54		minimum elong	11966 Aug 13 13:26	1° m/34'39	1°13'02
transit end	11965 Aug 31 08:31	19° m 30'42			11966 Aug 15 05:30	30°R€	
min. Earth dist.	11965 Sep 03 13:29	16° Mp 56'12	0.58224 AU	min. Earth dist.	11966 Aug 16 16:36	28° Ω 39'25	0.60471 AU
morning rise	11965 Sep 07 16:02	14° Mp 13'22		desc. node	11966 Aug 17 16:29	27° Ω 47'40	
direct	11965 Sep 13 19:51	12° m 34'28		morning rise	11966 Aug 20 08:59	25° Ω 47'45	
morning max el	11965 Sep 28 03:53	20° m 13'46	27°12'45	direct	11966 Aug 26 22:31	23° Ω 41'30	
	11965 Oct 06 13:32	0∘ ⊽			11966 Sep 08 12:53	0° m	
asc. node	11965 Oct 24 10:51	29° ≏ 48'04		morning max el	11966 Sep 10 05:29	1°M/36'14	27°52'38
	11965 Oct 24 13:15	0° M ₊			11966 Sep 30 21:14	0 ்⊽	
morning set	11965 Oct 28 16:48	8°M33'02		asc. node	11966 Oct 11 07:34	19° ≏ 33'50	
				morning set	11966 Oct 12 21:17	22° ≙ 48'18	
superior conj	11965 Nov 04 15:04	23°M45'05	1°29'33		11966 Oct 16 06:24	0° M	
minimum elong	11965 Nov 04 13:22	23°M35'38	1°30'01	max. Earth dist.	11966 Oct 18 21:26	5° ™ 45'25	1.31454 AU
max. Earth dist.	11965 Nov 04 13:09	23°M34'22	1.31341 AU				
	11965 Nov 07 10:26	0° ∡ ¹		superior conj	11966 Oct 20 02:09	8°M24'28	1°16'26
evening rise	11965 Nov 11 09:39	8° ∡ ³38'34		minimum elong	11966 Oct 19 23:58	8°M12'22	1°16'36
	11965 Nov 22 08:51	5°0		evening rise	11966 Oct 26 19:08	23°M11'43	
desc. node	11965 Nov 26 16:08	7° る 08'36			11966 Oct 30 00:39	0° ∡ ¹	
evening max el	11965 Dec 11 07:35	25° ප් 49'21	26°45'20	desc. node	11966 Nov 13 13:20	25° ҂ ¹27'25	
	11965 Dec 16 12:46	0° ≈			11966 Nov 16 22:10	6°0	
retrograde	11965 Dec 25 06:16	2°≈57'42		evening max el	11966 Nov 23 02:12		25°32'59
evening set	11965 Dec 31 22:59	1° ≈ 05'16		retrograde	11966 Dec 06 23:06	13° る 50'58	
<i>8</i>	11966 Jan 02 18:04	30°R₹		evening set	11966 Dec 12 23:31	12° ට 27'49	
min. Earth dist.	11966 Jan 04 21:45	28° ට 27'39	0.59484 AU	min. Earth dist.	11966 Dec 17 14:28	9°₹49'51	0.57434 AU
inferior conj	11966 Jan 08 01:54	25° る 57'27		inferior conj	11966 Dec 20 12:30	7° る 50'12	
minimum elong	11966 Jan 08 09:39	25° ප් 42'08	3°46'04	minimum elong	11966 Dec 20 20:36		4°58'18
morning rise	11966 Jan 15 23:09	23° ろ 12'00	3 40 04	morning rise	11966 Dec 28 20:07	3° る 33'37	4 30 10
direct	11966 Jan 18 01:08	21°る02'25		direct	11966 Dec 31 01:20	3°る3337	
asc. node	11966 Jan 20 10:26	21°る0223		asc. node	11967 Jan 07 07:37	5 01840 6°る11'27	
morning max el	11966 Jan 25 18:21	21 3 2417 24° る 51'54	18°12'33	morning max el	11967 Jan 08 22:14	7° る 36'46	18°55'42
morning max er	11966 Jan 30 00:26	24 3 31 34 0° ≈	16 12 33	morning max er		0°≈	16 33 42
	11966 Feb 10 10:41	0 ≈ 19°≈46'51			11967 Jan 23 06:45		
morning set		19° ≈ 46′51		morning set	11967 Jan 25 09:05	4°≈05'44	
	11966 Feb 15 21:19	0-π			110(7 E-k 02 20.22	20020101	0051112
	11066 F. 1 10 22 41	70\/20144	0021102	superior conj	11967 Feb 02 20:32	20°≈38'01	0°51'13
superior conj	11966 Feb 19 23:41	7°) (30'44	0°21'02	minimum elong	11967 Feb 02 23:22	20°≈51'28	0°51'23
minimum elong	11966 Feb 20 01:16	7°) € 37'52	0°21'11		11967 Feb 07 21:24	0° ∺	
desc. node	11966 Feb 22 16:23	12° 升 19′27		desc. node	11967 Feb 09 13:02	2° ₩ 58'13	
max. Earth dist.	11966 Feb 27 14:17	20°) 48'40	1.41386 AU	max. Earth dist.	11967 Feb 09 21:33	3° ∺ 36′06	1.39186 AU
evening rise	11966 Mar 04 10:34	28° ¥ 50′22		evening rise	11967 Feb 13 18:16	10°) 19'48	
	11966 Mar 05 03:46	0° Y			11967 Feb 26 00:08	0° Υ	
	11966 Mar 25 05:31	0°8		evening max el	11967 Mar 20 21:34	29° Y 51′21	24°23'46
evening max el	11966 Apr 07 07:39	16° 8 00'46	23°03'32		11967 Mar 21 01:04	0° 8	
retrograde	11966 Apr 17 15:07	22° 8 05'44		retrograde	11967 Apr 01 07:39	6° 8 32'40	
asc. node	11966 Apr 18 07:39	22° 8 03'30		asc. node	11967 Apr 05 05:00	5° 8 24'16	
evening set	11966 Apr 22 14:38	20° 8 00'43		evening set	11967 Apr 06 19:02	4° 8 14'51	
inferior conj	11966 Apr 27 23:16	13° 8 35'32	2°37'05		11967 Apr 10 14:57	30° ₹Ƴ	
minimum elong	11966 Apr 27 21:15	13° 8 42'31	2°36'07	min. Earth dist.	11967 Apr 11 09:22	28° Ƴ 59'11	0.68359 AU
min. Earth dist.	11966 Apr 27 13:31	14° 8 09'18	0.68756 AU	inferior conj	11967 Apr 12 07:25	27° Ƴ 45′08	2°04'23
morning rise	11966 May 03 03:46	7° 8 27'59		minimum elong	11967 Apr 12 05:16	27° Ƴ 52'24	2°03'26
direct	11966 May 07 13:43	5° 8 40'20		morning rise	11967 Apr 17 15:37	21° Ƴ 45'18	
morning max el	11966 May 16 03:46	10° 8 37'11	21°12'22	direct	11967 Apr 21 12:52	20° Ƴ 19′08	
desc. node	11966 May 21 18:00	17° 8 00'46		morning max el	11967 Apr 29 02:23	24° Y 33'00	19°59'20
	11966 May 31 06:24	Π $^{\circ}0$			11967 May 03 21:05	$8^{\circ 0}$	
morning set	11966 Jun 16 04:18	23° Ⅱ 59'56		desc. node	11967 May 08 14:47	6° 8 20'38	
	11966 Jun 19 23:04	0ಂತ			11967 May 24 13:26	Π $^{\circ}0$	
max. Earth dist.	11966 Jun 23 07:44	5°526'17	1.42678 AU	morning set	11967 May 26 05:57	2° Ⅱ 35'31	
				max. Earth dist.	11967 Jun 05 18:52	19° Ⅱ 04'11	1.44358 AU
superior conj	11966 Jun 30 13:57	17° © 33'49	-1°49'47				
minimum elong			1°49'56	superior conj	11967 Jun 11 04:30	27° Ⅱ 45'40	-2°09'22
	11966 Jun 30 20:46	10 -302 33					
	11966 Jun 30 20:46 11966 Jul 07 17:00				11967 Jun 11 08:42	28° Ⅱ 02'46	2°10'03
evening rise	11966 Jul 07 17:00	$0^{\circ}\Omega$		minimum elong	11967 Jun 11 08:42	28°∏02'46 0°©	2°10'03
evening rise asc. node	11966 Jul 07 17:00 11966 Jul 12 02:10	0° Ω 7° Ω 51'09		minimum elong	11967 Jun 11 08:42 11967 Jun 12 13:25	0ංම	2°10'03
evening rise asc. node	11966 Jul 07 17:00 11966 Jul 12 02:10 11966 Jul 15 06:19	0° Ω 7° Ω 51'09 13° Ω 32'59			11967 Jun 11 08:42 11967 Jun 12 13:25 11967 Jun 24 09:51	0°ତ 19°ତ53'25	2°10'03
•	11966 Jul 07 17:00 11966 Jul 12 02:10	0° Ω 7° Ω 51'09	18°05'26	minimum elong	11967 Jun 11 08:42 11967 Jun 12 13:25	0ංම	2°10'03

evening max el	11967 Jul 12 01:00	16° Ω 52'35	18°06'22	retrograde	11968 Jul 01 00:42	3° Ω 52'59	
retrograde	11967 Jul 18 10:23	20° Ω 12'58		evening set	11968 Jul 04 02:53	2° Ω 59'46	
evening set	11967 Jul 21 04:22	19° Ω 34'13			11968 Jul 07 16:39	30° ₹ 5	
inferior conj	11967 Jul 27 10:02	14° Ω 19'58	2°12'40	inferior conj	11968 Jul 09 21:47	27° 5 29'03	2°49'52
minimum elong	11967 Jul 27 12:40	14° Ω 12'55	2°11'19	minimum elong	11968 Jul 09 23:51	27° © 22'55	2°48'44
min. Earth dist.	11967 Jul 30 05:10	11° £ 21′37	0.62723 AU	min. Earth dist.	11968 Jul 12 03:11	24° © 51'30	0.64762 AU
morning rise	11967 Aug 02 18:59	8° Ω 09′20		morning rise	11968 Jul 15 19:38	21° © 09'03	
desc. node	11967 Aug 04 13:52	7° Ω 00′27		desc. node	11968 Jul 21 11:10	18° © 31'46	
direct	11967 Aug 09 11:29	5° Ω 41'26		direct	11968 Jul 22 09:13	18° 5 28'49	
morning max el	11967 Aug 23 12:57	13° Ω 43'45	27°53'46	morning max el	11968 Aug 04 23:24	26° © 27'19	27°19'36
•	11967 Sep 05 15:19	0° m			11968 Aug 08 06:26	$0^{\circ}\Omega$	
	11967 Sep 23 10:01	0∘ <u>⊽</u>			11968 Aug 29 05:54	0° m	
morning set	11967 Sep 26 19:25	6° £ 42'51		morning set	11968 Sep 09 08:35	20° m 09'58	
asc. node	11967 Sep 28 04:16	9° £ 30'45		max. Earth dist.	11968 Sep 13 21:21	29° m) 15'44	1.33214 AU
max. Earth dist.	11967 Oct 02 01:27	17° £ 42'03	1.32074 AU	asc. node	11968 Sep 14 00:56	29° m/34'17	
		-, - :- :-			11968 Sep 14 05:55	0∘ ⊽	
superior conj	11967 Oct 04 10:45	22° ₽ 52'52	0°57'54		11300 Sep 11 05.00	<u> </u>	
minimum elong	11967 Oct 04 08:34	22° - 40'53	0°57'46	superior conj	11968 Sep 17 14:48	7° ഫ 04'37	0°34'10
minimum ciong	11967 Oct 07 08:34 11967 Oct 07 16:36	0°M	0 37 40	minimum elong	11968 Sep 17 13:12	6° £ 56'04	0°33'52
evening rise	11967 Oct 11 06:20	7° M L47'01		evening rise	11968 Sep 24 17:20	22° ₽ 19'15	0 33 32
evening rise	11967 Oct 11 00:20 11967 Oct 22 16:27	0° ∡ ⊓		evening rise	11968 Sep 28 09:57	0°M	
daga mada	11967 Oct 22 10.27 11967 Oct 31 10:38			avanina may al	11968 Oct 16 00:53	27° M L14'10	22016145
desc. node		12° 🗷 41'27	22057152	evening max el			22°16'45
evening max el	11967 Nov 04 13:36	17° 🖈 10'06	23°57'53	desc. node	11968 Oct 17 07:59	28°M26'38	
retrograde	11967 Nov 18 03:50	23° 🗷 57'29		. 1	11968 Oct 19 05:46	0° ∡ ¹	
evening set	11967 Nov 22 23:54	23°×706'19	0.55550 444	retrograde	11968 Oct 28 20:46	3° ∡ 736'38	
min. Earth dist.	11967 Nov 29 00:17	20° ₹ '08'54	0.55750 AU	evening set	11968 Nov 01 05:48	3° √ 11′26	
inferior conj	11967 Dec 01 02:30	18° ₹ ′53′08			11968 Nov 08 14:32	30°RM₁	
minimum elong	11967 Dec 01 06:04	18° ∡ ¹47'43 −	5°45'05	inferior conj	11968 Nov 09 23:53	29°MJ3'11	
morning rise	11967 Dec 09 14:13	14° ∡ ¹56'45		minimum elong	11968 Nov 09 18:57	29°M20'09	
direct	11967 Dec 12 05:46	14° ∡ ³38'56		min. Earth dist.	11968 Nov 09 07:20	29°M36'30	0.54740 AU
morning max el	11967 Dec 22 14:05	19° ∡ ³34'40	20°01'37	morning rise	11968 Nov 18 09:28	25°M26'00	
asc. node	11967 Dec 25 04:44	22° × 22'28		direct	11968 Nov 21 18:12	25°M00'38	
	11967 Dec 30 14:52	0°ಕ			11968 Dec 02 22:27	0° ⊼	
morning set	11968 Jan 09 14:21	18° る 41'32		morning max el	11968 Dec 03 15:53	0° ∡ ³39'55	21°29'40
	11968 Jan 15 03:09	0° ≈		asc. node	11968 Dec 11 01:46	9° ∡ ¹40′22	
					11968 Dec 22 08:03	0°ප	
superior conj	11968 Jan 17 07:41	4° ≈ 24'43	1°13'45	morning set	11968 Dec 23 23:45	3° る 25'49	
minimum elong	11968 Jan 17 10:28	4° ≈ 38'34	1°14'08				
max. Earth dist.	11968 Jan 23 04:09	15° ≈ 46'57	1.36971 AU	superior conj	11968 Dec 31 05:02	18° る 38'18	1°28'51
evening rise	11968 Jan 26 22:05	22° ≈ 40'56		minimum elong	11968 Dec 31 07:01	18° る 48'38	1°29'29
desc. node	11968 Jan 27 09:46	23° ≈ 33'22		max. Earth dist.	11969 Jan 04 14:57	27° る 39'10	1.34979 AU
	11968 Jan 31 02:06	0° ∀			11969 Jan 05 19:22	0° ≈	
	11968 Feb 19 19:12	0 ° Υ		evening rise	11969 Jan 08 18:40	5° ≈ 44'18	
evening max el	11968 Mar 02 10:55	13° Y '42'27	25°38'00	desc. node	11969 Jan 13 06:33	14°≈00′10	
retrograde	11968 Mar 14 19:52	20° Y ′50′07			11969 Jan 22 20:35	0° ∀	
evening set	11968 Mar 20 18:56	18° Ƴ 22'39		evening max el	11969 Feb 13 00:29	27° ₩ 27'53	26°39'01
asc. node	11968 Mar 22 02:22	17° Ƴ 09'50		C	11969 Feb 15 19:52	0° Y	
min. Earth dist.	11968 Mar 25 02:14	13° Y 42'09	0.67532 AU	retrograde	11969 Feb 26 02:42	4° Ƴ 49'45	
inferior conj	11968 Mar 26 12:26	11° Y 53'01	1°21'52	evening set	11969 Mar 04 12:28	2° Ƴ 17'18	
minimum elong	11968 Mar 26 10:39	11° Υ 58'44	1°21'08	C	11969 Mar 06 22:57	30° ₹ ₩	
morning rise	11968 Apr 01 02:55	6° Y ′02′12		min. Earth dist.	11969 Mar 08 13:59	28° ¥ 10'55	0.66301 AU
direct	11968 Apr 04 12:25	4°Υ56'06		asc. node	11969 Mar 08 23:45	27°) 42'16	
morning max el	11968 Apr 11 08:45	8° Y 39'33	19°01'05	inferior conj	11969 Mar 10 12:11	25° ¥ 53'35	0°29'15
desc. node	11968 Apr 24 11:31	26° Y ′08′34	15 01 00	minimum elong	11969 Mar 10 11:25	25°) 55'53	0°29'05
greatest brilliancy	11968 Apr 24 16:03	26° Y °25'41	-0.7m	morning rise	11969 Mar 16 11:29	20° X 13'32	0 2) 03
greatest orimancy	11968 Apr 27 00:28	0°8	0.7111	direct	11969 Mar 19 10:32	19° ¥ 24'46	
morning set	11968 May 04 10:53	11° 8 27'31		morning max el	11969 Mar 25 21:23	22°\(\frac{1}{2}\)50'20	18°19'09
morning set	11968 May 16 09:01	0° Ⅱ		morning max ci	11969 Mar 31 17:50	0° Υ	10 1707
max. Earth dist.	11968 May 18 11:11		1.45415 AU	desc. node	11969 Apr 11 08:09	16° Υ 16'16	
max. Earth tist.	11700 Iviay 10 11.11	J 110 42	1.TJ41J AU		•	21° Y 29'48	
suporior cor:	11069 May 20, 21-27	70 TO5110	2012102	morning set	11969 Apr 14 14:47		
superior conj	11968 May 20 21:27	7° Ⅱ 05'18			11969 Apr 19 23:03	0°8	
minimum elong	11968 May 20 18:38	6°Ⅱ54'11 0°ᢒ	Z-12'4Z	avmani· '	11060 4 20 04 20	160 405120	1054127
				superior conj	11969 Apr 30 04:30	16° 8 05'30	-1-34-20
	11968 Jun 04 04:48				•	150 0 2111 0	1054!10
evening rise	11968 Jun 04 18:42	0°ഇ56'37		minimum elong	11969 Apr 29 19:43	15° 8 31'10	
evening rise asc. node	11968 Jun 04 18:42 11968 Jun 18 00:12	0°\$56'37 22°\$02'20			11969 Apr 29 19:43 11969 May 01 06:18	17° 8 46'19	1°54'18 1.45749 AU
•	11968 Jun 04 18:42	0°ഇ56'37	1002512	minimum elong	11969 Apr 29 19:43		

greatest brilliancy	11969 May 26 15:22	27° Ⅲ 22'02	-0.8m		11970 May 02 00:37	0°Щ	
greatest offinaley	11969 May 28 08:56	0°95	0.0111	greatest brilliancy	11970 May 10 11:58	12° Ⅱ 38'55	-0.6m
asc. node	11969 Jun 04 21:16	10°934'00		evening max el	11970 May 22 05:47	27° I 52'31	19°54'56
evening max el	11969 Jun 08 00:35	14°907'25	19°02'15	asc. node	11970 May 22 18:24	28° I I23'33	1, 0.00
retrograde	11969 Jun 14 20:23	17°954'20			11970 May 24 14:35	0.00	
evening set	11969 Jun 18 07:12	16°9545'21		retrograde	11970 May 29 18:39	2° © 10'32	
inferior conj	11969 Jun 23 18:56	10°959'41	3°09'37	evening set	11970 Jun 02 14:44	0°9345'10	
minimum elong	11969 Jun 23 19:58	10°956'20	3°08'42	evening sec	11970 Jun 03 12:36	30°RⅡ	
min. Earth dist.	11969 Jun 25 09:31	8°956'31	0.66443 AU	inferior conj	11970 Jun 07 22:25	24° Ⅱ 45'51	3°15'07
morning rise	11969 Jun 29 08:07	4°937'07	0.00443710	minimum elong	11970 Jun 07 22:22	24° Ⅱ 46'01	3°14'18
direct	11969 Jul 05 14:08	1°955'13		min. Earth dist.	11970 Jun 08 22:27	23° I I24'55	0.67689 AU
desc. node	11969 Jul 08 08:23	2°\$22'20		morning rise	11970 Jun 13 05:40	18° Ⅱ 24'52	0.07089 AU
morning max el	11969 Jul 18 10:14	9° © 34'47	26°17'39	direct	11970 Jun 19 00:52	18 II 24 32 15° II 50'54	
morning max er		9 3 3447 0°Ω	20 1/39			13 Д 30 34 18° Д 06'50	
	11969 Aug 03 12:19	oor o°mp		desc. node	11970 Jun 25 05:29 11970 Jun 30 20:16	18 Д 06 30 22° Д 55'47	24957112
mamina aat	11969 Aug 21 18:14	0 iyu 3°Mo01'17		morning max el		0°95	24 37 13
morning set	11969 Aug 23 09:28		1 24050 ATT		11970 Jul 07 01:49	0° U	
max. Earth dist.	11969 Aug 27 06:55	10° TD 27'23	1.34858 AU		11970 Jul 27 20:13		
asc. node	11969 Aug 31 21:37	19° m 40'33		morning set	11970 Aug 05 17:47	15° Ω 05'16	1.26020 444
	110000 01 11 51	200 - 50125	0005144	max. Earth dist.	11970 Aug 09 07:43	21° Ω 33'40	1.36928 AU
superior conj	11969 Sep 01 11:51	20° m 53'25	0°05'44		11970 Aug 13 19:13	0° m	
minimum elong	11969 Sep 01 11:33	20° m 51'50	0°05'27				
behind sun begin	11969 Sep 01 05:55	20° m 22'57		superior conj	11970 Aug 15 22:48	4° m) 10'41	
behind sun end	11969 Sep 01 17:11	21°Mp20'46		minimum elong	11970 Aug 16 00:32	4° Mp 19'10	0°26'38
	11969 Sep 05 21:03	0∘ ⊽		asc. node	11970 Aug 18 18:17	9° m)45'10	
evening rise	11969 Sep 09 02:12	6° ₽ 43'16		evening rise	11970 Aug 24 06:34	20° m/52'06	
	11969 Sep 21 16:59	0° M			11970 Aug 28 21:38	0。 ಹ	
evening max el	11969 Sep 27 21:31	7° ጤ 41'21	20°45'39	evening max el	11970 Sep 10 07:53	18° ≏ 51'59	19°33'32
desc. node	11969 Oct 04 05:23	12°M14'39		retrograde	11970 Sep 20 01:42	23° ≙ 43'19	
retrograde	11969 Oct 09 07:45	13°M21'40		desc. node	11970 Sep 21 02:48	23° ≙ 40'10	
evening set	11969 Oct 11 14:15	13°M09'12		evening set	11970 Sep 21 22:21	23° ₽ 33'28	
inferior conj	11969 Oct 20 15:49	9° M 14'24	-4°40'33	inferior conj	11970 Sep 30 16:37	19° ≏ 28'28	-2°57'35
minimum elong	11969 Oct 20 05:51	9° ™ 28'38	4°37'31	minimum elong	11970 Sep 30 08:53	19° ≏ 40'46	2°54'34
min. Earth dist.	11969 Oct 21 14:44	8° ጤ 41'36	0.54628 AU	min. Earth dist.	11970 Oct 03 00:42	17° ≏ 59'39	0.55451 AU
morning rise	11969 Oct 28 21:24	5° ™ 17'59		morning rise	11970 Oct 08 17:21	15° ഫ 03'52	
direct	11969 Nov 02 02:37	4°M39'48		direct	11970 Oct 13 18:36	14° ≙ 07'00	
morning max el	11969 Nov 15 06:14	11° M 01'21	23°13'58	morning max el	11970 Oct 27 16:41	21° ≏ 04'27	25°01'11
asc. node	11969 Nov 27 22:43	27° M 49'53			11970 Nov 04 10:09	0° M .	
	11969 Nov 29 04:55	0° ∡ ¹		asc. node	11970 Nov 14 19:35	16° M .37'42	
morning set	11969 Dec 08 11:14	18° ∡ 13′00			11970 Nov 21 13:33	0° ∡ ¹	
	11969 Dec 13 22:13	0°ප		morning set	11970 Nov 22 22:59	2° × 757'30	
superior conj	11969 Dec 15 09:23	3° る 09'54	1°37'01	superior conj	11970 Nov 29 18:14	17° ∡ ′51′30	1°38'47
minimum elong	11969 Dec 15 10:17	3° る 14'39	1°37'49	minimum elong	11970 Nov 29 17:58	17° ∡ ′50′06	1°39'35
max. Earth dist.	11969 Dec 18 09:31	9° ට 33'47	1.33366 AU	max. Earth dist.	11970 Dec 01 11:46	21° ∡ °39′08	1.32199 AU
evening rise	11969 Dec 23 04:25	19° る 20'57			11970 Dec 05 09:12	0°ರ	
C	11969 Dec 28 18:43	0° ≈		evening rise	11970 Dec 07 00:04	3° る 21'56	
desc. node	11969 Dec 31 03:26	4°≈13'55		desc. node	11970 Dec 18 00:24	24° පි 08'12	
	11970 Jan 16 23:06	0°) €			11970 Dec 21 13:18	0° ≈	
evening max el	11970 Jan 26 13:50	10°) 58'43	27°19'20	evening max el	11971 Jan 09 01:04	24° ≈ 02'05	27°32'09
retrograde	11970 Feb 09 03:13	18° ¥ 23'36		, and the second	11971 Jan 17 05:38	0° \	
evening set	11970 Feb 15 21:31	15° ¥ 52'07		retrograde	11971 Jan 22 20:27	1° ¥ 22'56	
min. Earth dist.	11970 Feb 19 18:24		0.64711 AU	renogrado	11971 Jan 28 03:36	30°R≈	
inferior conj	11970 Feb 22 04:15	9°) (41'13		evening set	11971 Jan 29 19:32	28° ≈ 59'38	
minimum elong	11970 Feb 22 05:15	9°) 38'30		min. Earth dist.	11971 Feb 02 13:30	25°≈54'18	0.62816 AU
asc. node	11970 Feb 23 21:06	7° ∺ 52'57	0 32 41	inferior conj	11971 Feb 05 09:46	23°≈08'45	
morning rise	11970 Feb 28 14:45	4° ∺ 14'20		minimum elong	11971 Feb 05 05:40	23°≈00'11	1°43'28
direct	11970 Mar 03 04:56	3°) (39′25		asc. node	11971 Feb 10 18:25	18° ≈ 43'40	1 43 20
morning max el	11970 Mar 09 13:58	6° ∺ 58'32	17°54'09	morning rise	11971 Feb 10 18.23 11971 Feb 12 09:26	18 ≈43 40 17°≈58'11	
morning max ci	11970 Mar 09 13.38 11970 Mar 25 05:01	0 π3832 0° Υ	1 / 5407	direct	11971 Feb 12 09.26 11971 Feb 14 16:38	17 ≈3811 17°≈33'28	
morning set	11970 Mar 26 23:32	2° Υ 57'01		morning max el	11971 Feb 14 10.38 11971 Feb 21 07:36	17 ≈55 28 20°≈56'26	17°46'41
desc. node	11970 Mar 20 23.32 11970 Mar 29 04:44	6° Υ 38'09		morning max ci	11971 Feb 21 07.36 11971 Feb 28 04:35	20 ≈ 36 26 0° ∺	1/ +0+1
acsc. Hour	117/0 WIAI 29 U4.44	0 13809		morning sat	11971 Feb 28 04:33 11971 Mar 09 09:08	15° ∺ 35'33	
superior com:	11070 Apr 00 10:27	25° Y '33'00	1020122	morning set desc. node	11971 Mar 09 09:08 11971 Mar 16 01:20	15° ₹ 35′33 27° ¥ 09′53	
superior conj	11970 Apr 09 19:27	25° γ 33'00 24° γ 59'45		uese. Houe		2/° π 09'53	
minimum elong	11970 Apr 09 11:07 11970 Apr 12 14:42	24° 1 39'43	1 17 31		11971 Mar 17 17:17	v i	
max. Earth dist.	11970 Apr 12 14:42 11970 Apr 14 02:09	2° 8 19'48	1.45337 AU	superior comi	11971 Mar 21 07:45	6° Ƴ 02'43	0030133
evening rise	11970 Apr 14 02:09 11970 Apr 25 18:44	2° 8 28'21	1.4555 / AU	superior conj minimum elong	11971 Mar 21 07:45 11971 Mar 21 03:45	5° Υ 46'07	
evening 1180	117/0 Apt 23 18.44	20 02021		minimum ciong	11//1 Ivial 41 US.43	J 1400/	0 2020

max. Earth dist.	11971 Mar 27 20:09	16° Ƴ 40'33	1.44225 AU	desc. node	11972 Mar 01 21:56	17°) 47′07	
evening rise	11971 Apr 05 06:48	29° Y '56'23	1.44223 AU	dese. Hode	11972 Mar 09 02:14	0°Υ	
e vening rise	11971 Apr 05 07:44	0°8		max. Earth dist.	11972 Mar 09 09:39	0° Υ 30'38	1.42535 AU
	11971 Apr 25 17:11	0°II		evening rise	11972 Mar 15 06:17	9° Υ 59'32	12030 110
evening max el	11971 May 05 05:13	11° Ⅱ 38'37	21°01'13	8	11972 Mar 28 09:59	0°8	
asc. node	11971 May 09 15:37	15° Ⅱ 18′02		evening max el	11972 Apr 16 23:26	25° 8 24'56	22°17'21
retrograde	11971 May 13 17:26	16° Ⅱ 36'36		Č	11972 Apr 22 17:22	Π°	
evening set	11971 May 17 23:32	14° ∏ 55′00		asc. node	11972 Apr 25 12:54	1° Ⅱ 01'03	
inferior conj	11971 May 23 05:51	8° Ⅱ 43'34	3°08'37	retrograde	11972 Apr 26 14:56	1° Ⅱ 06'38	
minimum elong	11971 May 23 04:49	8° Ⅱ 47'08	3°07'46		11972 Apr 30 04:38	30° ₹ 8	
min. Earth dist.	11971 May 23 16:07	8° Ⅱ 07'58	0.68466 AU	evening set	11972 May 01 07:51	29° 8 09'42	
morning rise	11971 May 28 09:54	2° Ⅱ 26'37		inferior conj	11972 May 06 15:04	22° 8 48'29	2°51'29
direct	11971 Jun 02 16:29	0° Ⅱ 07'42		minimum elong	11972 May 06 13:19	22° 8 54'35	2°50'34
desc. node	11971 Jun 12 02:29	5° Ⅱ 17'35		min. Earth dist.	11972 May 06 12:25	22° 8 57'43	0.68776 AU
morning max el	11971 Jun 13 06:23	6° Ⅱ 25'50	23°28'13	morning rise	11972 May 11 18:38	16° 8 37'02	
	11971 Jul 01 13:03	0 \circ		direct	11972 May 16 11:58	14° 8 37'29	
morning set	11971 Jul 18 04:49	26°510'49		morning max el	11972 May 25 19:00	20° 8 03'43	21°59'51
	11971 Jul 20 10:45	$0 {\circ} \Omega$		desc. node	11972 May 28 23:24	23° 8 30'58	
max. Earth dist.	11971 Jul 22 05:19	3° Ω 04'09	1.39228 AU		11972 Jun 03 04:24	Π °0	
					11972 Jun 23 17:40	0 \circ	
superior conj	11971 Jul 29 19:58	16° Ω 47'55		morning set	11972 Jun 27 14:29	6° © 07'52	
minimum elong	11971 Jul 30 00:15	17° Ω 07'49	1°00'34	max. Earth dist.	11972 Jul 03 05:33	15° © 20'03	1.41491 AU
asc. node	11971 Aug 05 15:02	29° Ω 44'52					
	11971 Aug 05 18:09	0° m		superior conj	11972 Jul 10 22:55	28° © 34'32	
evening rise	11971 Aug 08 03:42	4° m 38'59		minimum elong	11972 Jul 11 05:22	29° © 02'57	1°33'23
	11971 Aug 23 11:54	0∘ ⊽			11972 Jul 11 18:15	0°N	
evening max el	11971 Aug 24 06:56	0° Ω 49'25	18°42'58	evening rise	11972 Jul 21 13:56	17° Ω 53'58	
retrograde	11971 Sep 01 12:52	4° £ 57'38		asc. node	11972 Jul 22 11:50	19° Ω 35'19	
evening set	11971 Sep 03 11:19	4° Ω 44'46			11972 Jul 28 05:51	0° m)	10012127
desc. node	11971 Sep 08 00:13	2° Ω 47'05	1007117	evening max el	11972 Aug 06 14:55	13° Mp 26'13	18°13'27
inferior conj	11971 Sep 11 12:41	0° £ 21'14		retrograde	11972 Aug 13 18:56	17° Mp 04'11	
minimum elong	11971 Sep 11 09:58 11971 Sep 12 00:07	0° ჲ 26'17 30°Ŗ ₥	1 03 17	evening set inferior conj	11972 Aug 16 00:10 11972 Aug 23 06:36	16° Mp 43'55 11° Mp 59'59	0°29'38
min. Earth dist.	11971 Sep 12 00.07	28° Mp 02'55	0.57057 AU	minimum elong	11972 Aug 23 00:30 11972 Aug 23 07:35	11° m) 57'52	0°28'55
morning rise	11971 Sep 14 15:30 11971 Sep 19 05:13	25° m, 18'50	0.37037 AU	desc. node	11972 Aug 23 07:33 11972 Aug 24 21:37	10° m ₀ 35'08	0 28 33
direct	11971 Sep 19 03:13 11971 Sep 25 00:17	23° m 56'38		min. Earth dist.	11972 Aug 24 21:37 11972 Aug 26 14:32	9° m) 08'26	0.59158 AU
direct	11971 Oct 07 19:07	0° ⊡		morning rise	11972 Aug 20 14:32	6° m ₂ 23'15	0.37130710
morning max el	11971 Oct 09 07:04	۱° ユ 23'03	26°33'05	direct	11972 Sep 05 20:09	4° m ₂ 32'15	
morning max or	11971 Oct 29 13:19	0°M	20 33 03	morning max el	11972 Sep 39 20:09	12° m) 19'54	27°34'25
asc. node	11971 Nov 01 16:23	5° ™ 53'59		morning man vi	11972 Oct 04 03:04	0∘ ⊽	2, 3.20
morning set	11971 Nov 07 09:20	17°M34'43		asc. node	11972 Oct 18 13:09	25° £ 31'04	
S	11971 Nov 13 01:15	0°∡7			11972 Oct 20 17:39	0° M	
				morning set	11972 Oct 21 16:33	2°ML00'01	
superior conj	11971 Nov 14 05:26	2° ∡ ³37′00	1°34'35	max. Earth dist.	11972 Oct 28 04:00	16°ML07'35	1.31324 AU
minimum elong	11971 Nov 14 04:12	2° ∡ ³30′05	1°35'12				
max. Earth dist.	11971 Nov 14 19:04	3° х 52′49	1.31513 AU	superior conj	11972 Oct 28 17:09	17° M 20'48	1°24'41
evening rise	11971 Nov 21 02:52	17° ∡ ¹40'14		minimum elong	11972 Oct 28 15:12	17° M 09'57	1°25'01
	11971 Nov 27 05:45	5°0			11972 Nov 03 10:27	0° ∡ ¹	
desc. node	11971 Dec 04 21:27	13° る 34'51		evening rise	11972 Nov 04 10:33	2° ҂ 09'58	
	11971 Dec 16 09:25	0° ≈			11972 Nov 19 05:46	ರ°0	
evening max el	11971 Dec 22 07:33	6° ≈ 24'35	27°12'14	desc. node	11972 Nov 20 18:37	2° る 23'01	
retrograde	11972 Jan 05 05:39	13° ≈ 38′22		evening max el	11972 Dec 03 06:56	17° る 57'30	26°18'06
evening set	11972 Jan 12 03:15	11° ≈ 31'47		retrograde	11972 Dec 17 05:31	25° る 02'53	
min. Earth dist.	11972 Jan 15 22:01	8° ≈ 47'39		evening set	11972 Dec 23 16:37	23° る 22'00	
inferior conj	11972 Jan 19 01:19	6° ≈ 07'02		min. Earth dist.	11972 Dec 27 20:19	20° る 46'23	0.58582 AU
minimum elong	11972 Jan 19 07:42	5° ≈ 53'22	3°00'49	inferior conj	11972 Dec 30 23:26	18° る 26'56	
morning rise	11972 Jan 26 15:01	1° ≈ 16′01		minimum elong	11972 Dec 31 07:46	18° る 11'25	4°18'25
direct	11972 Jan 28 17:49	0°≈57'56		morning rise	11973 Jan 08 01:45	13°る57'40	
asc. node	11972 Jan 28 15:42	0°≈57'58	1.50.5	direct	11973 Jan 10 04:09	13°る42'44	
morning max el	11972 Feb 04 22:56	4°≈34'45	17°57'33	asc. node	11973 Jan 14 12:55	14°る51'08	1000001
morning set	11972 Feb 20 13:08	29°≈05'07		morning max el	11973 Jan 18 08:17	17° る 43'20	18°28'15
	11972 Feb 21 01:06	0°) €			11973 Jan 27 03:30	0° ≈	
	1107234 0: 20 (2	1701/ 440	000012.5	morning set	11973 Feb 03 06:07	13° ≈ 09'57	
superior conj	11972 Mar 01 20:40	17°) (41'34			11072 F 1 12 07 10	001/20140	0024145
minimum elong	11972 Mar 01 20:44	17°) 41'51	0°00'41	superior conj	11973 Feb 12 07:18		0°34'45
behind sun begin	11972 Mar 01 12:40	17° ¥ 06'32		minimum elong	11973 Feb 12 09:36	0° ∺ 31'28	0°34'51
behind sun end	11972 Mar 02 04:48	18° 升 17'04			11973 Feb 12 02:47	0° ∺	

desc. node	11973 Feb 16 18:36	8° ¥ 26'36		minimum elong	11974 Jan 26 13:41	14° ≈ 00'14	1°01'56
max. Earth dist.	11973 Feb 19 18:19	13°) 40′11	1.40462 AU	max. Earth dist.	11974 Feb 02 00:32	26° ≈ 09'21	1.38236 AU
evening rise	11973 Feb 24 01:44	20° ¥ 57'12		desc. node	11974 Feb 03 15:18	29° ≈ 04'10	
C	11973 Mar 01 16:03	0° Y			11974 Feb 04 03:50	0° ∀	
	11973 Mar 22 13:32	0°B		evening rise	11974 Feb 05 18:22	2°) 49'44	
evening max el	11973 Mar 30 14:19	9° 8 13'44	23°37'58	-	11974 Feb 22 19:38	$0^{\circ}\Upsilon$	
retrograde	11973 Apr 10 09:43	15° 8 35'51		evening max el	11974 Mar 13 03:58	23° Y 05'11	24°56'35
asc. node	11973 Apr 12 10:13	15° 8 16'52		retrograde	11974 Mar 25 00:29	29° Y 58'54	
evening set	11973 Apr 15 14:08	13° 8 25'11		asc. node	11974 Mar 30 07:34	27° Y 55'49	
min. Earth dist.	11973 Apr 20 09:09	7° 8 48'46	0.68635 AU	evening set	11974 Mar 30 16:48	27° Y 36'50	
inferior conj	11973 Apr 21 00:09	6° 8 57'21	2°24'25	min. Earth dist.	11974 Apr 04 04:06	22° Y 35'57	0.68057 AU
minimum elong	11973 Apr 20 22:01	7° 8 04'39	2°23'26	inferior conj	11974 Apr 05 07:14	21° Y ′06'34	1°47'34
morning rise	11973 Apr 26 05:53	0° 8 52'41		minimum elong	11974 Apr 05 05:09	21° Y 13'24	1°46'41
	11973 Apr 27 13:31	30° ₹Ƴ		morning rise	11974 Apr 10 17:45	15° Ƴ 10′07	
direct	11973 Apr 30 10:17	29° Ƴ 14'16		direct	11974 Apr 14 09:55	13° Ƴ 52'35	
	11973 May 03 11:29	0 \circ 8		morning max el	11974 Apr 21 15:05		19°32'33
morning max el	11973 May 08 13:15	3° 8 52'00	20°39'36		11974 May 01 06:51	$_{0\circ}$ 8	
desc. node	11973 May 15 20:15	12° 8 30'06		desc. node	11974 May 02 17:01	2° 8 02'43	
	11973 May 28 03:08	Π °0		greatest brilliancy	11974 May 04 07:33	4° 8 23'19	-0.7m
morning set	11973 Jun 07 00:14	15° Ⅲ 02'05		morning set	11974 May 17 00:18	23° 8 35'42	
max. Earth dist.	11973 Jun 15 12:06	28° Ⅲ 28′08	1.43453 AU		11974 May 21 03:50	Π °0	
	11973 Jun 16 10:49	0° ©		max. Earth dist.	11974 May 29 01:35	12° Ⅱ 21'56	1.44890 AU
superior conj	11973 Jun 22 03:24	9° © 21'50	-1°59'45	superior conj	11974 Jun 02 08:01	19° ∏ 09'10	-2°12'55
minimum elong	11973 Jun 22 09:42	9° 5 48'10	2°00'09	minimum elong	11974 Jun 02 09:37	19° Ⅲ 15'32	
evening rise	11973 Jul 04 08:43	0°Ω25'38	2 00 05	minimum ciong	11974 Jun 09 00:44	0°95	2 13 11
e vennig rise	11973 Jul 04 02:54	0° Ω		evening rise	11974 Jun 16 07:05	12° © 03'02	
asc. node	11973 Jul 09 08:42	9° Ω 11'46		asc. node	11974 Jun 26 05:38	28°9528'53	
evening max el	11973 Jul 21 03:49	26° £ 32'09	18°03'39	use. noue	11974 Jun 27 04:55	0°Ω	
retrograde	11973 Jul 27 16:54	29°Ω54'30		evening max el	11974 Jul 04 17:57	9° Ω 57'51	18°12'27
evening set	11973 Jul 30 06:14	29°Ω23'16		retrograde	11974 Jul 11 02:27	13° Ω 19'11	10 1227
inferior conj	11973 Aug 05 19:55	24°Ω19'46	1°41'47	evening set	11974 Jul 14 00:00	12° Ω 34'21	
minimum elong	11973 Aug 05 22:25	24°Ω13'30	1°40'28	inferior conj	11974 Jul 20 00:37	7° Ω 12'57	2°30'47
min. Earth dist.	11973 Aug 08 21:42	21°Ω17'28	0.61441 AU	minimum elong	11974 Jul 20 03:06	7°Ω05'59	
desc. node	11973 Aug 11 19:01	18° Ω 49'06	0.01111110	min. Earth dist.	11974 Jul 22 14:11	4°Ω21'36	0.63626 AU
morning rise	11973 Aug 12 12:02	18° Ω 18'42		morning rise	11974 Jul 26 04:37	0° Ω 57'42	0.03020110
direct	11973 Aug 19 03:48	16°Ω01'53		morning 115¢	11974 Jul 27 13:42	30°R.55	
morning max el	11973 Sep 02 08:56	24°Ω01'33	27°57'43	desc. node	11974 Jul 29 16:20	28°957'37	
morning max or	11973 Sep 02 08:38	0° m)	27 37 13	direct	11974 Aug 01 20:42	28°923'16	
	11973 Sep 27 11:14	0∘ <u>⊽</u>		anov	11974 Aug 07 14:38	0° Ω	
asc. node	11973 Oct 05 09:51	15° ≏ 22'07		morning max el	11974 Aug 15 17:45	6° Ω 24'49	27°43'14
morning set	11973 Oct 05 18:37	16° ♀ 07'13		morning man vi	11974 Sep 02 17:47	0° m)	27 .51.
max. Earth dist.	11973 Oct 11 10:46	28° ♀ 12'50	1.31651 AU	morning set	11974 Sep 19 13:16	29° m 50'47	
man. Barar alou	11973 Oct 12 06:18	0°M	1.01001110	morning see	11974 Sep 19 15:07	0∘ ⊽	
	11975 000 12 00.10			asc. node	11974 Sep 22 06:33	5° ഫ 22'23	
superior conj	11973 Oct 13 03:26	1°M56'28	1°09'15	max. Earth dist.	11974 Sep 24 11:42	10° ⊆ 00′20	1.32498 AU
minimum elong	11973 Oct 13 01:11	1°ML44'03	1°09'16	max. Bartii dist.	1157 1 Sep 21 11.12	10 -0020	1.52 150 110
evening rise	11973 Oct 19 20:59	16°M44'41	1 0, 10	superior conj	11974 Sep 27 10:23	16° ≙ 18'40	0°48'29
	11973 Oct 26 07:56	0° ∡ ¹		minimum elong	11974 Sep 27 08:21	16° ♀ 07'43	0°48'15
desc. node	11973 Nov 07 15:52	20° ∡ 16'58			11974 Oct 03 17:31	0°M₊	
evening max el	11973 Nov 14 22:10	28° ∡ ³39'36	24°54'31	evening rise	11974 Oct 04 08:20	1°M19'33	
<i>3</i>	11973 Nov 16 09:31	0°ප		3	11974 Oct 20 00:28	0° ∡ ⊓	
retrograde	11973 Nov 28 17:34	5° る 34'32		desc. node	11974 Oct 25 13:09	6° ∡ ¹56'25	
evening set	11973 Dec 04 07:01	4° る 25'24		evening max el	11974 Oct 27 08:33	8° ∡ 747'52	23°14'34
min. Earth dist.	11973 Dec 09 10:04		0.56656 AU	retrograde	11974 Nov 09 16:25	15° х 25'49	
inferior conj	11973 Dec 12 01:17	29° ₹ '59'02		evening set	11974 Nov 13 21:52	14° ∡ °47′02	
minimum elong	11973 Dec 12 08:10	29° ∡ ¹47'52		min. Earth dist.	11974 Nov 20 18:08		0.55234 AU
	11973 Dec 12 00:41	30°R. ₹		inferior conj	11974 Nov 22 07:19	10° ∡ ′41'55	
morning rise	11973 Dec 20 11:30	25° × 7'51'22		minimum elong	11974 Nov 22 07:26	10° × 11'35	
direct	11973 Dec 22 20:00	25° × 31' 22		morning rise	11974 Nov 30 18:40	6° × 51'05	
asc. node	11974 Jan 01 10:05	0° る 15'43		direct	11974 Dec 03 17:09	6°×730'29	
	11974 Jan 01 03:32	0°る		morning max el	11974 Dec 14 17:14	11° х 44'10	20°36'23
morning max el	11974 Jan 01 07:29	0° ろ 09'26	19°20'48	asc. node	11974 Dec 14 17:14 11974 Dec 19 07:09	16° × 56'46	_0 5025
morning set	11974 Jan 18 07:49	0 00920 27°る36'56	17 20 10	450. HOGO	11974 Dec 19 07:09 11974 Dec 27 10:04	0°る。	
	11974 Jan 19 12:25	0° ≈		morning set	11974 Dec 27 10:04 11975 Jan 02 15:07	12° る 17'02	
		100 1	1001//-				1004105
superior conj	11974 Jan 26 10:46	13° ≈ 46′00	1°01'42	superior conj	11975 Jan 10 02:39	27° る 44'51	1°21'02

minimum elong	11975 Jan 10 05:09	27° る 57'34	1°21'31	superior conj	11975 Dec 25 03:20	12° る 07'22	1°33'07
	11975 Jan 11 05:19	0° ≈		minimum elong	11975 Dec 25 04:52	12° る 15'30	1°33'51
max. Earth dist.	11975 Jan 15 08:42	8° ≈ 10'48	1.36097 AU	max. Earth dist.	11975 Dec 28 22:51	20° පි 03'31	1.34243 AU
evening rise	11975 Jan 19 05:46	15° ≈ 29'40		evening rise	11976 Jan 02 08:22	28° る 48'14	
desc. node	11975 Jan 21 12:03	19° ≈ 36′02			11976 Jan 02 23:16	0° ≈	
	11975 Jan 27 13:03	0° ∀		desc. node	11976 Jan 08 08:52	9° ≈ 58'01	
	11975 Feb 17 09:49	$0^{\circ}\mathbf{\Upsilon}$			11976 Jan 20 17:30	0° ∀	
evening max el	11975 Feb 23 17:34	6° Ƴ 55′02	26°06'01	evening max el	11976 Feb 06 07:05	20°) 35'31	26°59'00
retrograde	11975 Mar 08 10:19	14° Ƴ 09'16		retrograde	11976 Feb 19 14:28	27° ¥ 59'40	
evening set	11975 Mar 14 14:11	11° Y 39'11		evening set	11976 Feb 26 04:25	25° ¥ 26'31	
asc. node	11975 Mar 17 04:56	9° Y 05'16		min. Earth dist.	11976 Mar 01 03:43	21°) 34'32	0.65671 AU
min. Earth dist.	11975 Mar 18 18:59	7° Ƴ 13'24	0.67061 AU	inferior conj	11976 Mar 03 07:04	19°) €07'35	0°03'53
inferior conj	11975 Mar 20 10:16	5° Ƴ 11'34	1°00'47	minimum elong	11976 Mar 03 06:57	19°) €07'55	0°04'04
minimum elong	11975 Mar 20 08:49	5° Ƴ 16'03	1°00'15	transit middle	11976 Mar 03 06:57	19° ₩ 07'55	0°04'04
•	11975 Mar 25 07:39	30° Ŗ ₩		transit begin	11976 Mar 03 04:04	19° ¥ 16'12	
morning rise	11975 Mar 26 04:10	29° ¥ 25′05		transit end	11976 Mar 03 09:50	18° ¥ 59'39	
direct	11975 Mar 29 09:11	28° ¥ 26'35		asc. node	11976 Mar 03 02:17	19° ¥ 21'21	
	11975 Apr 02 15:09	$0^{\circ}\Upsilon$		morning rise	11976 Mar 09 10:52	13°) €33'05	
morning max el	11975 Apr 05 00:19	2° Y '00'31	18°41'10	direct	11976 Mar 12 05:59	12°) 50'40	
desc. node	11975 Apr 19 13:42	21° Y ′59'33		morning max el	11976 Mar 18 15:04	16° ¥ 11'52	18°06'27
	11975 Apr 24 17:05	0°8			11976 Mar 28 19:47	0°Υ	
morning set	11975 Apr 26 13:19	2° 8 52'58		desc. node	11976 Apr 05 10:21	12° Υ 14'05	
max. Earth dist.	11975 May 11 19:59	26° 8 45'31	1.45651 AU	morning set	11976 Apr 06 05:37	13° Y '32'16	
max. Earth dist.	11)/5 May 11 19.59	20 0 13 31	1.15051710	morning sec	11976 Apr 16 11:23	0°8	
superior conj	11975 May 12 18:39	28° 8 14'09	-2°06'59		11970 Apr 10 11.23	ů O	
minimum elong	11975 May 12 10:39	27° 8 50'51		superior conj	11976 Apr 21 02:57	7° 8 20'36	-1°41'32
minimum ciong	11975 May 12 12:41	0°Ⅱ	2 07 22	minimum elong	11976 Apr 20 17:34	6° 8 43'46	
evening rise	11975 May 28 05:26	22° Ⅱ 39'48		max. Earth dist.	11976 Apr 23 16:02	11° 8 20'08	1.45665 AU
evening rise	11975 Jun 01 19:30	0°95		max. Lartii dist.	11976 May 05 16:04	0°Ⅱ	1.43003 AC
greatest brilliancy	11975 Jun 04 10:29	4°9510'51	-0.9m	evening rise	11976 May 07 05:32	2° Ⅱ 25'05	
asc. node	11975 Jun 13 02:38	17°9519'10	-0.9111	greatest brilliancy	11976 May 19 17:40	2 H 23 03 21° H 34'52	0.7m
evening max el	11975 Jun 18 06:13	23°534'44	18°39'07	greatest brilliancy	11976 May 19 17.40 11976 May 25 13:55	0°95	-0.7111
retrograde	11975 Jun 24 19:27	27°508'45	18 3907	asc. node	11976 May 29 23:43	5°934'06	
•	11975 Jun 28 01:20	26°908'45			•	7°9317'41	19°22'43
evening set			3°00'11	evening max el	11976 May 31 14:22 11976 Jun 07 16:39	11°9516'55	19 22 43
inferior conj minimum elong	11975 Jul 03 16:44 11975 Jul 03 18:23	20°931'17	2°59'08	retrograde evening set	11976 Jun 11 07:17	10°900'58	
· ·	11975 Jul 05 15:44	20°526'10	0.65525 AU	•	11976 Jun 16 16:55		3°13'33
min. Earth dist. morning rise	11975 Jul 03 13:44 11975 Jul 09 10:34	18°507'23 14°509'38	0.03323 AU	inferior conj	11976 Jun 16 17:29	4 909 02 4°907'09	
direct	11975 Jul 15 21:21	14 909 38 11°9 27'47		minimum elong			0.67027 AU
				min. Earth dist.	11976 Jun 18 01:10	2 €23 17 30°R I I	0.67027 AU
desc. node	11975 Jul 16 13:36	11°9529'24	26056115	morning rise	11976 Jun 19 23:28	27° ∏ 46'32	
morning max el	11975 Jul 29 04:39	19° © 19'30	20 30 13	morning rise	11976 Jun 22 03:13	27 H 46 32 25° H 07'09	
	11975 Aug 07 06:28	0° Ω		direct	11976 Jun 28 04:46 11976 Jul 02 10:46		
	11975 Aug 26 18:44	0° Mp		desc. node		26° Ⅱ 11'26 0° ©	
morning set	11975 Sep 02 21:36	13° Mp 02'55	1 22057 AII		11976 Jul 07 22:25		25°45'07
max. Earth dist.	11975 Sep 07 03:34	21° m) 24'21	1.33857 AU	morning max el	11976 Jul 10 15:26		25*45 07
asc. node	11975 Sep 09 03:13	25° m/27'01			11976 Jul 31 10:26	0°Ω	
	11075 0 11 11 42	00 0 20141	0022120	morning set	11976 Aug 15 15:58	25° Ω 34'59	
superior conj	11975 Sep 11 11:43	0° 2 20'41		F 4 F 4	11976 Aug 18 01:13	0°M) 20 Mr. 2012 €	1.25(02.41)
minimum elong	11975 Sep 11 10:35	0° ჲ 14'39	0°22'20	max. Earth dist.	11976 Aug 19 09:02	2° 110/30/25	1.35693 AU
	11975 Sep 11 07:47	0° <u>ი</u>			11076 1 25 04 50	1207 56107	0007120
evening rise	11975 Sep 18 18:39	15° ≏ 48'30		superior conj	11976 Aug 25 04:50	13° Mp 56'07	
	11975 Sep 25 20:31	0°M	2102/100	minimum elong	11976 Aug 25 05:18	13° m 58'30	0°07'50
evening max el	11975 Oct 08 22:39	18°M56'37	21°36'00	behind sun begin	11976 Aug 24 23:51	13° Mp 31'04	
desc. node	11975 Oct 12 10:30	21°M54'57		behind sun end	11976 Aug 25 10:45	14° m) 25'58	
retrograde	11975 Oct 21 05:34	25°M03'12		asc. node	11976 Aug 25 23:54	15° m/32'30	
evening set	11975 Oct 24 01:43	24°M44'50	5022102	evening rise	11976 Sep 02 01:52	0° ჲ 06'12	
inferior conj	11975 Nov 02 00:34	20°M49'23			11976 Sep 02 00:40	0∘ ⊽	
minimum elong	11975 Nov 01 16:37	21°ML00'31		evening max el	11976 Sep 20 00:47	29° △ 39'47	20°12'22
min. Earth dist.	11975 Nov 02 00:33		0.54578 AU		11976 Sep 20 09:03	0°M	
morning rise	11975 Nov 10 08:33	17°M01'18		desc. node	11976 Sep 28 07:53	4°M43'52	
direct	11975 Nov 14 01:55	16°M31'15	22015:15	retrograde	11976 Sep 30 18:21	4°M59'54	
morning max el	11975 Nov 26 13:28	22°M28'16	22°12'43	evening set	11976 Oct 02 18:25	4°M49'34	400000
_	11975 Dec 03 00:54	0° ∡ ¹		inferior conj	11976 Oct 11 18:32	0°M₁51'42	
asc. node	11975 Dec 06 04:09	4° ∡ °38′07		minimum elong	11976 Oct 11 08:48	1°M.06'09	3°56'37
morning set	11975 Dec 18 01:40	27° ∡ *03'34			11976 Oct 13 05:21	30° ₹ Ω	
	11975 Dec 19 10:58	0°₹		min. Earth dist.	11976 Oct 13 08:53	29° £ 54'47	0.54858 AU
				morning rise	11976 Oct 19 22:15	26° ≏ 45'01	

direct	11976 Oct 24 11:48 11976 Nov 03 22:26	25° £ 59'53 0° M		direct morning max el	11977 Oct 05 09:48 11977 Oct 19 12:38	5° £ 32'48 12° £ 44'20	25°43'12
morning max el	11976 Nov 07 01:14	2°M38'08	24°00'26		11977 Nov 01 23:17	0°M	
asc. node	11976 Nov 22 01:04	23°M05'00		asc. node	11977 Nov 08 21:55	12°M06'00	
	11976 Nov 25 18:43	0°×7		morning set	11977 Nov 16 00:50	26°M32'04	
morning set	11976 Dec 01 13:28	11° ≯ 750′10			11977 Nov 17 15:17	0° ∡	
superior conj	11976 Dec 08 09:53	26° ∡ ¹44'14	1°38'31	superior conj	11977 Nov 22 20:01	11° ₹ '28'30	1°37'43
minimum elong	11976 Dec 08 10:17	26° х 46′23	1°39'20	minimum elong	11977 Nov 22 19:19	11° ∡ °24'38	1°38'27
	11976 Dec 09 22:03	0°రె		max. Earth dist.	11977 Nov 24 01:15	14° √ 10′04	1.31841 AU
max. Earth dist.	11976 Dec 10 20:39	2° る 01'21	1.32803 AU	evening rise	11977 Nov 29 21:41	26° ₹ ¹45'27	
evening rise	11976 Dec 15 22:39	12° る 36'01			11977 Dec 01 11:30	0° ろ	
desc. node	11976 Dec 25 05:45	0°≈04'13		desc. node	11977 Dec 12 02:46	19° ප් 47'51	
	11976 Dec 25 04:47	0° ₩			11977 Dec 18 13:51	0°≈ 16°≈ •43!39	27027157
evening max el	11977 Jan 15 00:33 11977 Jan 18 19:33	3°) (55'35	27°28'26	evening max el retrograde	11978 Jan 01 05:11 11978 Jan 15 02:28	16°≈43'28 24°≈01'55	21-21-31
retrograde	11977 Feb 01 12:14	11° ∺ 20′20	27 28 20	evening set	11978 Jan 22 01:34	21°≈44'49	
evening set	11977 Feb 08 09:10	8° X 51'03		min. Earth dist.	11978 Jan 25 19:17	18° ≈ 49'24	0.61939 AU
min. Earth dist.	11977 Feb 12 04:21	5°) (30′00	0.63937 AU	inferior conj	11978 Jan 28 19:03	16° ≈ 04'02	
inferior conj	11977 Feb 14 19:01	2°) 47′33	-1°02'57	minimum elong	11978 Jan 28 23:47	15° ≈ 53'06	2°15'43
minimum elong	11977 Feb 14 21:00	2°) 42′23	1°01'41	asc. node	11978 Feb 04 20:56	11° ≈ 04'19	
asc. node	11977 Feb 17 23:37	29° ≈ 41'57		morning rise	11978 Feb 05 00:41	11° ≈ 01'14	
	11977 Feb 17 15:20	30°R ≈		direct	11978 Feb 07 05:30	10° ≈ 39'52	
morning rise	11977 Feb 21 10:58	27°≈27'31		morning max el	11978 Feb 14 01:37	14°≈07'54	17°48'52
direct	11977 Feb 23 21:49 11977 Mar 02 01:24	26°≈57'31 0°) €		morning set	11978 Feb 24 23:34 11978 Mar 01 19:52	0° 光 8° 光 34'23	
morning max el	11977 Mar 02 01:24 11977 Mar 02 08:33	0°) 17′10	17°48'47	morning set desc. node	11978 Mar 10 03:32	8 ★3423 23°¥14'52	
morning set	11977 Mar 19 01:40	25°) (31'51	17 40 47	dese. Hode	11776 Widi 10 03.32	23 /(1432	
	11977 Mar 21 16:53	0° Υ		superior conj	11978 Mar 13 00:50	28°) 11'37	-0°22'08
desc. node	11977 Mar 23 06:56	2° Y 40'30		minimum elong	11978 Mar 12 22:45	28°) €02'44	0°21'41
					11978 Mar 14 02:29	0° Y	
superior conj	11977 Apr 01 02:00	17° Ƴ 12′23		max. Earth dist.	11978 Mar 20 02:45	9° Y 56'00	1.43574 AU
minimum elong	11977 Mar 31 19:20	16° Y 45′22	1°02'45	evening rise	11978 Mar 27 08:46	21° Y 26'34	
max. Earth dist.	11977 Apr 06 10:48	25° Y 47'53	1.44943 AU		11978 Apr 01 22:39	8°0	
evening rise	11977 Apr 09 02:49 11977 Apr 16 17:22	0° と 11° と 47'03		evening max el	11978 Apr 23 06:49 11978 Apr 27 14:13	0° П 4° П 49'19	21022147
evening rise	11977 Apr 16 17.22 11977 Apr 28 19:34	0° Ⅱ		asc. node	11978 Apr 27 14.13	9° П 27'52	21 3247
evening max el	11977 May 14 17:04	21° I I03'00	20°21'40	retrograde	11978 May 06 13:47	10° I I05'34	
asc. node	11977 May 16 20:53	23° I [01'54	20 21 .0	evening set	11978 May 11 00:22	8° Ⅱ 17'31	
retrograde	11977 May 22 15:27	25° Ⅱ 37'38		inferior conj	11978 May 16 06:50	2° ∏ 01′50	3°02'34
evening set	11977 May 26 15:35	24° Ⅱ 05'30		minimum elong	11978 May 16 05:28	2° Ⅱ 06'36	3°01'42
inferior conj	11977 May 31 22:24	18° Ⅱ 00'48	3°13'43	min. Earth dist.	11978 May 16 11:36	1° Ⅱ 45'12	0.68659 AU
minimum elong	11977 May 31 21:54	18° Ⅱ 02'28	3°12'54		11978 May 17 18:09	30° ₹ 8	
min. Earth dist.	11977 Jun 01 16:32	16° Ⅱ 58'44	0.68075 AU	morning rise	11978 May 21 10:21	25° 8 47'00	
morning rise direct	11977 Jun 06 03:55	11° Ⅱ 41'01 9° Ⅱ 12'35		direct morning max el	11978 May 26 11:25 11978 Jun 05 11:53	23° 8 35'40 29° 8 31'41	22940154
desc. node	11977 Jun 11 17:51 11977 Jun 19 07:50	9 П 1233 12° П 35'34		morning max er	11978 Jun 05 11.33	29 O 31 41	22 49 34
morning max el	11977 Jun 23 01:18	15° Д 59'30	24°19'43	desc. node	11978 Jun 06 04:49	0° П 15'06	
S	11977 Jul 04 14:35	0ಂತಾ			11978 Jun 28 08:53	0ಂ ತಾ	
	11977 Jul 24 09:18	$0^{\circ}\Omega$		morning set	11978 Jul 09 16:22	17° © 52'32	
morning set	11977 Jul 28 15:53	7° Ω 15'59		max. Earth dist.	11978 Jul 14 05:03	25° © 28'23	1.40213 AU
max. Earth dist.	11977 Aug 01 07:13	13° Ω 41'33	1.37886 AU		11978 Jul 16 19:58	0 ° Ω	
	11077 4 00 10 20	260 0 57126	0040157		11070 1 1 22 00 26	00.01.4140	1014150
superior conj minimum elong	11977 Aug 08 10:26 11977 Aug 08 13:13	26° Ω 57'36 27° Ω 10'57		superior conj minimum elong	11978 Jul 22 00:26 11978 Jul 22 05:45	9° Ω 14'40 9° Ω 38'54	
minimum ciong	11977 Aug 00 13:13	0° mp	0 40 37	asc. node	11978 Jul 30 17:22	25° Ω 31'36	1 1433
asc. node	11977 Aug 12 20:37	5° m 35'29		evening rise	11978 Jul 31 20:32	27° Ω 40'50	
evening rise	11977 Aug 17 03:34	14° m 06'37		-	11978 Aug 02 01:51	0° m p	
	11977 Aug 25 14:07	0∘ ⊽		evening max el	11978 Aug 16 20:29	23° m 27'02	18°27'59
evening max el	11977 Sep 02 17:02	11° ≏ 11'27	19°09'29	retrograde	11978 Aug 24 13:45	27° m 20'11	
retrograde	11977 Sep 11 18:39	15° ≏ 42'55		evening set	11978 Aug 26 14:59	27° m 04'32	
evening set	11977 Sep 13 15:00	15° Ω 32'25		desc. node	11978 Sep 02 02:45	23°Mp29'43	0022154
desc. node	11977 Sep 15 05:19	15° Ω 07'28	2000120	inferior conj	11978 Sep 03 08:12	22° m 32'22	
inferior conj minimum elong	11977 Sep 22 02:49 11977 Sep 21 21:11	11° £ 20'37 11° £ 30'08	-2°09'38 2°07'22	minimum elong min. Earth dist.	11978 Sep 03 07:19 11978 Sep 06 15:07	22° m ₂ 34'07 19° m ₂ 57'32	0°22'45 0.57913 AU
min. Earth dist.	11977 Sep 21 21:11 11977 Sep 24 21:11	9° £ 29'00	0.56047 AU	morning rise	11978 Sep 00 13.07 11978 Sep 10 20:09	19 lly 37 32 17° lly 14'47	0.57713 AU
morning rise	11977 Sep 24 21:11 11977 Sep 30 00:28	6° Ω 40'04		direct	11978 Sep 16 21:56	15° Mp 40'17	
Ü					1		

morning max el	11978 Oct 01 05:41	23° Mp 16'06	27°03'33	direct	11979 Aug 29 22:46	26° Ω 38'50	
	11978 Oct 07 06:55	0∘ 亚			11979 Sep 07 22:12	0° m y	
	11978 Oct 26 00:03	0° M		morning max el	11979 Sep 13 06:21	4° ™ 31'52	27°49'10
asc. node	11978 Oct 26 18:43	1° M .31'41			11979 Oct 02 03:36	0∘ ত	
morning set	11978 Oct 31 10:02	11° M L04'11		asc. node	11979 Oct 13 15:28	21° ≏ 15'21	
3				morning set	11979 Oct 15 15:19	25° ₽ 22'09	
superior conj	11978 Nov 07 07:39	26°M13'27	1°31'04	morning sec	11979 Oct 17 19:42	0°M	
		26°M04'37	1°31'34	mov. Earth dist	11979 Oct 21 18:22	8°M37'33	1 21405 ATT
minimum elong	11978 Nov 07 06:04			max. Earth dist.	119/9 Oct 21 18.22	8 1163/33	1.31405 AU
max. Earth dist.	11978 Nov 07 09:43	26°M24'58	1.31373 AU				
	11978 Nov 09 00:18	0° ∡ ¹		superior conj	11979 Oct 22 18:57	10° M 53'59	1°18'48
evening rise	11978 Nov 14 02:50	11° ₹ ′09'09		minimum elong	11979 Oct 22 16:49	10° M 42'07	1°18'59
	11978 Nov 23 16:34	0° ප		evening rise	11979 Oct 29 11:55	25° M 41′25	
desc. node	11978 Nov 28 23:54	8° る 59'21			11979 Oct 31 12:37	0° ∡ ¹	
evening max el	11978 Dec 14 09:10	28° ♂ 46'12	26°53'24	desc. node	11979 Nov 15 21:05	27° ∡ 26′20	
S	11978 Dec 15 17:38	0° ≈			11979 Nov 17 16:34	0°₹	
retrograde	11978 Dec 28 07:38	5° ≈ 55'40		evening max el	11979 Nov 26 04:59	9° ප 56'07	25°45'28
evening set	11979 Jan 04 01:59	3°≈59'24		retrograde	11979 Dec 10 02:21	16° る 57'00	23 43 20
•			0.50000 411	•			
min. Earth dist.	11979 Jan 07 23:28	1°≈20'32	0.59800 AU	evening set	11979 Dec 16 05:58	15°る29'00	
	11979 Jan 09 15:53	30°Ŗる		min. Earth dist.	11979 Dec 20 17:26	12° る 52'19	0.57720 AU
inferior conj	11979 Jan 11 03:37	28° る 47'15		inferior conj	11979 Dec 23 17:15	10° る 47'02	
minimum elong	11979 Jan 11 11:03	28° る 32'13	3°34'18	minimum elong	11979 Dec 24 01:34	10° る 32'30	4°48'30
morning rise	11979 Jan 18 22:58	24° る 04'54		morning rise	11979 Dec 31 23:42	6° る 27'20	
direct	11979 Jan 21 01:05	23° る 48'31		direct	11980 Jan 03 03:59	6° る 12'30	
asc. node	11979 Jan 22 18:11	24°る00'00		asc. node	11980 Jan 09 15:24	8° ⋜ 33'14	
morning max el	11979 Jan 28 14:48	27° る 34'20	18°08'03	morning max el	11980 Jan 11 20:15		18°47'57
morning max or	11979 Jan 30 19:36	0°≈	10 00 05	morning max or	11980 Jan 24 16:58	0°≈	10 1/3/
		0 ∞ 22°≈21'15					
morning set	11979 Feb 13 06:03			morning set	11980 Jan 28 03:10	6° ≈ 36'46	
	11979 Feb 17 08:15	0° ∀					
				superior conj	11980 Feb 05 17:56	23° ≈ 18′21	0°47'07
superior conj	11979 Feb 22 23:34	10° ₩ 17'49	0°15'50	minimum elong	11980 Feb 05 20:40	23° ≈ 31'16	0°47'15
minimum elong	11979 Feb 23 00:48	10° ∺ 23′22	0°15'58		11980 Feb 09 08:23	0° ∀	
desc. node	11979 Feb 25 00:11	13° ¥ 53'41		desc. node	11980 Feb 11 20:51	4°) 32′46	
max. Earth dist.	11979 Mar 02 14:37	23°) €31'51	1.41693 AU	max. Earth dist.	11980 Feb 12 22:12	6° ∺ 25′02	1.39514 AU
	11979 Mar 06 12:30	0° Y		evening rise	11980 Feb 16 20:50	13° ¥ 13'49	
evening rise	11979 Mar 07 16:18	1° Y 52'40		* · · · · · · · · · · · · · · · · · · ·	11980 Feb 27 06:40	0°Υ	
evening rise	11979 Mar 26 08:22	0°8			11980 Mar 20 12:24	0°8	
			22051120				24912100
evening max el	11979 Apr 10 06:57	18° 8 37'41	22°51'28	evening max el	11980 Mar 22 21:00	2° 8 27'42	24-12-00
retrograde	11979 Apr 20 10:11	24° 8 36'35		retrograde	11980 Apr 03 03:22	9° 8 04'30	
asc. node	11979 Apr 20 15:24	24° 8 36'21		asc. node	11980 Apr 06 12:44	8° 8 12'05	
evening set	11979 Apr 25 08:01	22° 8 33'31		evening set	11980 Apr 08 12:58	6° 8 48'20	
inferior conj	11979 Apr 30 16:15	16° 8 09'17	2°41'11	min. Earth dist.	11980 Apr 13 04:25	1° 8 27'23	0.68445 AU
minimum elong	11979 Apr 30 14:17	16° 8 16'05	2°40'14	inferior conj	11980 Apr 14 00:41	0° 8 18'54	2°09'59
min. Earth dist.	11979 Apr 30 08:18	16° 8 36'52	0.68778 AU	minimum elong	11980 Apr 13 22:31	0° 8 26'14	2°09'02
morning rise	11979 May 05 20:26	10° 8 00'47		· ·	11980 Apr 14 06:17	30° ₹ Υ	
direct	11979 May 10 08:17	8° 8 10'03		morning rise	11980 Apr 19 08:10	24° Y 17'49	
morning max el	11979 May 19 02:33	13° 8 14'05	21°24'21	direct	11980 Apr 23 07:13	22° Υ '48'35	
•	•		21 24 21		-	22 γ 48 33 27° γ ′08'19	20000120
desc. node	11979 May 24 01:43	18° 8 50'04		morning max el	11980 May 01 00:04		20°09'20
	11979 Jun 01 10:04	0°П			11980 May 03 15:43	0°8	
morning set	11979 Jun 19 15:07	27° Ⅱ 20'44		desc. node	11980 May 09 22:31	8° 8 04'55	
	11979 Jun 21 07:17	0 \circ			11980 May 24 20:23	Π °0	
max. Earth dist.	11979 Jun 26 08:21	8° 5 09'27	1.42385 AU	morning set	11980 May 28 18:18	5° Ⅱ 59'41	
				max. Earth dist.	11980 Jun 07 18:19	21° Ⅱ 40′03	1.44144 AU
superior conj	11979 Jul 03 18:19	20°937'27	-1°45'45		11980 Jun 12 22:12	0°9	
minimum elong	11979 Jul 04 01:08	21° © 06'49	1°45'51				
8	11979 Jul 09 02:48	0°N		superior conj	11980 Jun 13 12:27	0° © 58'18	-2°07'22
evening rise	11979 Jul 15 00:50	10° Ω 39'19		minimum elong	11980 Jun 13 17:22	1°5518'28	
asc. node	11979 Jul 17 14:12			_		22°9549'35	2 07 37
asc. Hour		15° Ω 17'00		evening rise	11980 Jun 26 11:33		
	11979 Jul 26 07:02	0° Mp	10000150	ā	11980 Jun 30 15:33	0°N	
evening max el	11979 Jul 31 07:02	6° Mp 17′27	18°06'52	asc. node	11980 Jul 03 11:04	4° Ω 46′08	
retrograde	11979 Aug 07 03:18	9° m ,47'00		evening max el	11980 Jul 13 20:46	19° £ 32′26	18°05'04
evening set	11979 Aug 09 11:59	9° m 22'23		retrograde	11980 Jul 20 06:51	22° Q 53′00	
inferior conj	11979 Aug 16 10:49	4° m 29'30	1°03'14	evening set	11980 Jul 22 23:35	22° Ω 16′20	
minimum elong	11979 Aug 16 12:42	4° Mp 25'11	1°02'09	inferior conj	11980 Jul 29 07:13	17° Ω 04'50	2°05'12
min. Earth dist.	11979 Aug 19 17:00	1° Mp 30'54	0.60130 AU	minimum elong	11980 Jul 29 09:51	16° Ω 57'53	2°03'51
desc. node	11979 Aug 20 00:08	1° m) 15'26		min. Earth dist.	11980 Aug 01 04:14	14° Ω 04'43	0.62394 AU
	11979 Aug 21 13:06	30°R Ω		morning rise	11980 Aug 04 17:58	10° Ω 56'15	
morning rise	11979 Aug 21 13:00 11979 Aug 23 10:23	28° Ω 41'11		desc. node	11980 Aug 05 21:29	10° Ω 10'29	
	117,71106 20 10.20	06 11 11		acce. node	-1,001146 00 21.2)	10 001027	

direct	11980 Aug 11 10:25	8° Ω 30'55		direct	11981 Jul 25 07:02	21° © 11'45	
morning max el	11980 Aug 11 10:23 11980 Aug 25 13:09	16°Ω33'15	27056'00	morning max el	11981 Jul 23 07.02 11981 Aug 07 23:10	21 3 11 43 29° 5 11'40	27026141
morning max er	11980 Aug 23 13:09 11980 Sep 05 15:40	0°m)	27 30 00	morning max er	11981 Aug 07 23:10 11981 Aug 08 18:01	29 3 11 40	27 2041
	11980 Sep 03 13:40 11980 Sep 23 20:44	0∘ ت الأال			11981 Aug 30 13:11	0°m)	
mamina sat	11980 Sep 23 20.44 11980 Sep 28 14:34	0 = 9° £ 20'35		morning set	11981 Aug 30 13.11 11981 Sep 12 05:12	22° Mp 52'07	
morning set	1			morning set	11981 Sep 12 03.12 11981 Sep 15 18:26	0° ⊡	
asc. node	11980 Sep 29 12:11	11° Ω 11'15	1 21042 ATT	4-			
max. Earth dist.	11980 Oct 03 23:13	20° ₽ 37'02	1.31943 AU	asc. node	11981 Sep 16 08:50	1° Ω 14'05	1 22007 ATT
	11000 0 + 06 04 04	250 0 24146	1001105	max. Earth dist.	11981 Sep 16 20:21	2° ≏ 13'43	1.33007 AU
superior conj	11980 Oct 06 04:04	25° £ 24'46	1°01'05		11001 0 00 00 51	00.00000	0020106
minimum elong	11980 Oct 06 01:50	25° ₾ 12'33	1°00'59	superior conj	11981 Sep 20 08:54	9° Ω 39'23	0°38'06
	11980 Oct 08 06:07	0°M		minimum elong	11981 Sep 20 07:10	9° Ω 30'06	0°37'50
evening rise	11980 Oct 12 22:58	10° ™ 16'57		evening rise	11981 Sep 27 10:05	24° Ω 49'55	
	11980 Oct 22 21:57	0° ∡ ¹			11981 Sep 29 21:06	0° ™	
desc. node	11980 Nov 01 18:19	14° ∡ ′51′53			11981 Oct 18 18:07	0° ∡	
evening max el	11980 Nov 06 17:10	20° ∡ ′20′09	24°12'56	evening max el	11981 Oct 19 03:56	0° ∡ ¹24'16	22°31'36
retrograde	11980 Nov 20 09:12	27° ∡ 10'04		desc. node	11981 Oct 19 15:38	0° ∡ 52′20	
evening set	11980 Nov 25 10:02	26° ₹ 14'19		retrograde	11981 Nov 01 03:29	6° ≯ 751'16	
min. Earth dist.	11980 Dec 01 04:14	23° ∡ 20′54	0.55964 AU	evening set	11981 Nov 04 17:39	6° ≯ 23'00	
inferior conj	11980 Dec 03 10:19	21° ₹ 57'54	-5°41'57	min. Earth dist.	11981 Nov 12 11:33	2° ∡ 54'45	0.54840 AU
minimum elong	11980 Dec 03 14:56	21° ∡ 50′47	5°40'42	inferior conj	11981 Nov 13 09:40	2° ∡ ¹23'27	-5°46'58
morning rise	11980 Dec 11 21:53	17° ∡ 58'51		minimum elong	11981 Nov 13 06:00	2° ∡ ¹28'38	5°46'00
direct	11980 Dec 14 11:15	17° ∡ ′41′50			11981 Nov 17 21:56	30°₽ M J	
morning max el	11980 Dec 24 14:09	22° ∡ 31'41	19°50'16	morning rise	11981 Nov 21 19:46	28°M35'45	
asc. node	11980 Dec 26 12:31	24° ∡ ³32'54		direct	11981 Nov 25 01:43	28° ™ 11'46	
	11980 Dec 30 16:19	0°₹			11981 Dec 01 17:38	0° ∡ ¹	
morning set	11981 Jan 11 07:33	21° ප 10'31		morning max el	11981 Dec 06 17:58	3° ∡ ¹44'34	21°15'09
	11981 Jan 15 15:38	0° ≈		asc. node	11981 Dec 13 09:34	11° ∡ 741'45	
					11981 Dec 23 19:29	0°రె	
superior conj	11981 Jan 19 03:12	6° ≈ 59'55	1°10'48	morning set	11981 Dec 26 16:28	5° る 53'53	
minimum elong	11981 Jan 19 06:03	7° ≈ 14'00	1°11'08	C			
max. Earth dist.	11981 Jan 25 04:21	18° ≈ 39'23	1.37293 AU	superior conj	11982 Jan 02 23:13	21° る 09'56	1°26'59
evening rise	11981 Jan 28 21:50	25° ≈ 27'51		minimum elong	11982 Jan 03 01:20	21° る 20'58	1°27'36
desc. node	11981 Jan 28 17:34	25° ≈ 08'46			11982 Jan 07 07:35	0° ≈	
	11981 Jan 31 11:44	0° ∀		max. Earth dist.	11982 Jan 07 14:16	0° ≈ 33'06	1.35262 AU
	11981 Feb 19 20:32	0° Υ		evening rise	11982 Jan 11 16:09	8°≈25'34	1.55202 110
evening max el	11981 Mar 05 10:19	16° Ƴ 18'38	25°27'37	desc. node	11982 Jan 15 14:20	15°≈37'04	
retrograde	11981 Mar 17 16:19	23° Y 23'21	23 27 37	dese. Hode	11982 Jan 24 03:11	0° ∀	
evening set	11981 Mar 23 13:37	20° Υ 57'10			11982 Feb 15 21:35	0°Υ	
asc. node	11981 Mar 24 10:05	20° Υ 11'03		evening max el	11982 Feb 15 23:57	0° Υ 05'45	26°31'05
min. Earth dist.	11981 Mar 27 21:55	16° Υ 11'19	0.67681 AU	retrograde	11982 Feb 28 23:58	7° Υ 25'54	20 31 03
inferior conj	11981 Mar 29 06:17	14° Υ 27'04	1°28'59	evening set	11982 Mar 07 08:12	4° Υ 54'01	
minimum elong	11981 Mar 29 04:24	14° Y 33'08	1°28'12	asc. node	11982 Mar 11 07:27	0° Υ 51'45	
_		8° Υ 34'40	1 20 12	min. Earth dist.	11982 Mar 11 10:34	0° Υ 42'32	0.66509 AU
morning rise direct	11981 Apr 03 19:38	8 1 34 40 7° Υ 25'44		IIIII. Eartii dist.		0 1 42 32 30° ₹	0.00309 AU
	11981 Apr 07 06:48	11° Υ 13'02	19°08'41	inferior conj	11982 Mar 12 00:51	28° ∺ 29'03	0°37'56
morning max el	11981 Apr 14 05:14		19-08-41	,	11982 Mar 13 06:57		
desc. node	11981 Apr 26 19:15	27° Y 48'59	0.7	minimum elong	11982 Mar 13 05:59	28°\(\frac{1}{32}\)'00 22°\(\frac{1}{47}\)'09	0°37'39
greatest brilliancy	11981 Apr 27 05:44	28° Y 28'11	-0.7m	morning rise	11982 Mar 19 04:45		
	11981 Apr 28 06:11	0°8		direct	11982 Mar 22 05:18	21°) 55'56	10024110
morning set	11981 May 07 21:10	14° 8 44'28		morning max el	11982 Mar 28 17:01	25°) €23'21	18°24'18
P. J. P.	11981 May 17 17:04	0°Ⅱ 5°Ⅱ 46152	1 45000 477		11982 Apr 01 16:43	0°Υ 15° 0 05 44 4	
max. Earth dist.	11981 May 21 09:41	5°Щ46'52	1.45302 AU	desc. node	11982 Apr 13 15:56	17° Y 54'14	
				morning set	11982 Apr 17 20:56	24° Y 34'35	
superior conj	11981 May 24 08:06	10° Ⅲ 24'11			11982 Apr 21 07:05	0°B	
minimum elong	11981 May 24 06:29	10° Ⅱ 17'45	2°13'40				
	11981 Jun 05 12:55	0 \circ		superior conj	11982 May 03 15:32	19° 8 24'28	
evening rise	11981 Jun 07 23:57	4° 5 01'33		minimum elong	11982 May 03 07:17	18° 8 52'12	
asc. node	11981 Jun 20 08:00	23° © 53'03		max. Earth dist.	11982 May 04 04:43	20° 8 15'58	1.45747 AU
	11981 Jun 24 17:20	0 ° Ω			11982 May 10 10:15	0°Щ	
evening max el	11981 Jun 27 10:23	3° Ω 03'51	18°21'38	evening rise	11982 May 19 12:08	14° Ⅱ 14'16	
retrograde	11981 Jul 03 19:59	6° Ω 29'08		greatest brilliancy	11982 May 29 05:36	29° Ⅱ 29'09	-0.8m
evening set	11981 Jul 06 20:57	5° Ω 38'11			11982 May 29 13:36	0	
inferior conj	11981 Jul 12 17:13	0° Ω 09'57	2°45'25	asc. node	11982 Jun 07 05:02	12° © 30'14	
minimum elong	11981 Jul 12 19:25	0° Ω 03'31	2°44'14	evening max el	11982 Jun 10 21:15	16° © 45'03	18°55'43
	11981 Jul 12 20:37	30° ₹🥯		retrograde	11982 Jun 17 15:01	20° © 28'05	
min. Earth dist.	11981 Jul 15 00:50	27° 5 28'13	0.64478 AU	evening set	11982 Jun 21 00:35	19° 5 21'23	
morning rise	11981 Jul 18 16:35	23°950'56		inferior conj	11982 Jun 26 13:09	13° © 37'54	3°07'35
desc. node	11981 Jul 23 18:47	21° 5 9'41		minimum elong	11982 Jun 26 14:22	13° © 34'03	3°06'38

min. Earth dist.	11982 Jun 28 05:56	11° 5 29'04	0.66220 AU	inferior conj	11983 Jun 10 15:54	27° II 22'04	3°15'05
morning rise	11982 Jul 02 03:29	7° © 15'29		minimum elong	11983 Jun 10 16:00	27° Ⅱ 21'42	3°14'15
direct	11982 Jul 08 10:53	4° © 33'16		min. Earth dist.	11983 Jun 11 17:59	25° Ⅱ 54'42	0.67532 AU
desc. node	11982 Jul 10 16:00	4°\$50'41		morning rise	11983 Jun 15 23:51	21° Ⅱ 00'41	
morning max el	11982 Jul 21 09:59	12° © 16'12	26°28'19	direct	11983 Jun 21 20:45	18° Ⅲ 25'11	
	11982 Aug 04 15:13	$0^{\circ}\Omega$		desc. node	11983 Jun 27 13:09	20° Ⅱ 19'48	
	11982 Aug 23 04:25	0° m		morning max el	11983 Jul 03 20:16	25° Ⅲ 36′05	25°10'01
morning set	11982 Aug 26 08:06	5° ₩ 49'04			11983 Jul 07 20:36	0 \circ \odot	
max. Earth dist.	11982 Aug 30 07:33	13° m 28'15	1.34587 AU		11983 Jul 29 03:35	$0^{\circ}\Omega$	
asc. node	11982 Sep 03 05:29	21° Mp 20'06		morning set	11983 Aug 08 19:12	18° Ω 00'50	
				max. Earth dist.	11983 Aug 12 09:34	24° Ω 34'25	1.36602 AU
superior conj	11982 Sep 04 07:09	23° Mp 31'57	0°10'18		11983 Aug 15 06:38	0° m)	
minimum elong	11982 Sep 04 06:35	23° m 29'05	0°10'02				
behind sun begin	11982 Sep 04 01:57	23°Mp05'12		superior conj	11983 Aug 18 19:49	6° My 54'21	-0°21'28
behind sun end	11982 Sep 04 11:13	23° m 53'01		minimum elong	11983 Aug 18 21:12	7° m 01'10	0°21'35
	11982 Sep 07 09:37	0∘ ⊽		asc. node	11983 Aug 21 02:10	11° m 25'09	
evening rise	11982 Sep 11 19:23	9° ≏ 15'25		evening rise	11983 Aug 27 00:36	23° m) 27'04	
Ü	11982 Sep 22 17:37	0°M		Č	11983 Aug 30 07:14	0° ق	
evening max el	11982 Sep 30 22:39	10°M45'36	20°58'06	evening max el	11983 Sep 13 06:52	21° £ 48'52	19°42'51
desc. node	11982 Oct 06 12:59	14°M59'37	20 0000	retrograde	11983 Sep 23 06:45	26° £ 47'39	1, .201
retrograde	11982 Oct 10 12:35	16°M32'52		desc. node	11983 Sep 23 10:23	26° Ω 47'35	
evening set	11982 Oct 12 14:20 11982 Oct 15 00:00	16°ML19'13		evening set	11983 Sep 25 10:23	26° ⊆ 37'52	
•	11982 Oct 13 00:00 11982 Oct 24 01:21		1052117	U	11983 Oct 03 24:00	20° ⊆ 37'52 22° ⊆ 34'53	2014126
inferior conj	11982 Oct 24 01.21 11982 Oct 23 15:39	12°M24'44 12°M38'28	4°50'28	inferior conj			3°11'14
minimum elong min. Earth dist.				minimum elong	11983 Oct 03 15:36		
	11982 Oct 24 18:27	12°M00'30	0.54588 AU	min. Earth dist.	11983 Oct 06 03:51	21° £ 14'17	0.55271 AU
morning rise	11982 Nov 01 07:34	8°M31'15		morning rise	11983 Oct 12 01:35	18° £ 15'24	
direct	11982 Nov 05 09:51	7°M55'17		direct	11983 Oct 16 23:48	17° £ 21'51	
morning max el	11982 Nov 18 09:30	14°M10'29	22°57'51	morning max el	11983 Oct 30 20:03	24° ≙ 14'25	24°45'53
asc. node	11982 Nov 30 06:33	29°M44'12			11983 Nov 05 02:35	0° M ₊	
	11982 Nov 30 10:21	0° ∡ ¹		asc. node	11983 Nov 17 03:27	18°M27'06	
morning set	11982 Dec 11 03:45	20° ∡ ¹40'56			11983 Nov 23 01:35	0° ∡ ¹	
	11982 Dec 15 11:44	0°ප		morning set	11983 Nov 25 15:38	5° ∡ ¹26'38	
	11000 0 10 00 11	50 -7 00110	100 (111		11002 5 02 11 02	200 70011	1020155
superior conj	11982 Dec 18 02:41	5° る 39'10		superior conj	11983 Dec 02 11:03	20° ∡ 20'11	1°38'55
minimum elong	11982 Dec 18 03:45	5°る44'50		minimum elong	11983 Dec 02 10:58	20° √ 19'43	1°39'43
max. Earth dist.	11982 Dec 21 07:46		1.33582 AU	max. Earth dist.	11983 Dec 04 09:02	24° ∡ ³31'17	1.32338 AU
evening rise	11982 Dec 26 00:09	21° る 57'39			11983 Dec 06 22:15	0°ਰ	
	11982 Dec 30 05:05	0° ≈		evening rise	11983 Dec 09 18:32	5° る 55'48	
desc. node	11983 Jan 02 11:11	5° ≈ 53'03		desc. node	11983 Dec 20 08:07		
	11705 Jun 02 11.11			dese. Hode	11983 Dec 20 08.07	25° る 50'59	
	11983 Jan 17 22:13	0° ∀		dese. Hode	11983 Dec 20 08.07 11983 Dec 22 19:16	0° ≈	
evening max el		0° ∺ 13° ∺ 39'40	27°14'54	evening max el		0° ≈ 26° ≈ 48'09	27°32'11
evening max el retrograde	11983 Jan 17 22:13	0° 	27°14'54		11983 Dec 22 19:16	0° ≈ 26° ≈ 48'09 0° 升	27°32'11
C	11983 Jan 17 22:13 11983 Jan 29 13:28	0° ∺ 13° ∺ 39'40	27°14'54		11983 Dec 22 19:16 11984 Jan 12 01:05	0° ≈ 26° ≈ 48'09	27°32'11
retrograde	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22	0° 	27°14'54 0.64971 AU	evening max el	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22	0° ≈ 26° ≈ 48'09 0° 升	27°32'11
retrograde evening set	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40	0° 	0.64971 AU	evening max el	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48	0°≈ 26°≈48'09 0°¥ 4°¥10'11	27°32'11
retrograde evening set min. Earth dist.	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38	0.64971 AU -0°23'17	evening max el	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34	0°≈ 26°≈48'09 0°¥ 4°¥10'11 1°¥44'59	27°32'11 0.63116 AU
retrograde evening set min. Earth dist. inferior conj	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20	0°₩ 13°₩39'40 21°₩04'17 18°₩32'13 14°₩53'38 12°₩19'07	0.64971 AU -0°23'17	evening max el retrograde evening set	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59	0°≈ 26°≈48'09 0°	0.63116 AU
retrograde evening set min. Earth dist. inferior conj minimum elong	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01	0°₩ 13°₩39'40 21°₩04'17 18°₩32'13 14°₩53'38 12°₩19'07 12°₩17'14	0.64971 AU -0°23'17	evening max el retrograde evening set min. Earth dist.	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43	0°≈ 26°≈48'09 0° X 4° X 10'11 1° X 44'59 30° R≈ 28°≈35'54	0.63116 AU
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49	0°\text{13°\text{\cdot39'40}} 21°\text{\cdot39'40} 21°\text{\cdot30'17} 18°\text{\cdot32'13} 14°\text{\cdot53'38} 12°\text{\cdot19'07} 12°\text{\cdot17'14} 11°\text{\cdot01'42}	0.64971 AU -0°23'17	evening max el retrograde evening set min. Earth dist. inferior conj	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40	0°≈ 26°≈48'09 0° \text{\tin\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texitit{\text{\text{\text{\texitit{\text{\texi{\texi\texit{\text{\texit{\text{\ti}\tint{\text{\texit{\text{\texitit}}\xi\text{\text{\text{\	0.63116 AU -1°34'00
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09	0.64971 AU -0°23'17 0°22'41	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28	0°\text{13°\text{39'40}} 21°\text{404'17} 18°\text{432'13} 14°\text{453'38} 12°\text{19'07} 12°\text{17'14} 11°\text{401'42} 6°\text{450'09} 6°\text{413'20}	0.64971 AU -0°23'17 0°22'41	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10	0°≈ 26°≈48'09 0° ₩ 4° ₩ 10'11 1° ₩ 44'59 30° κ≈ 28°≈35'54 25°≈50'40 25°≈43'00 21°≈43'22	0.63116 AU -1°34'00
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12	0°\tau 13°\tau39'40 21°\tau04'17 18°\tau32'13 14°\tau53'38 12°\tau19'07 12°\tau17'14 11°\tau01'42 6°\tau50'09 6°\tau13'20 9°\tau3'32	0.64971 AU -0°23'17 0°22'41	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24	0°≈ 26°≈48'09 0° ★ 4° ★ 10'11 1° ★ 44'59 30° R≈ 28°≈35'54 25°≈50'40 25°≈43'00 21°≈43'22 20°≈37'39	0.63116 AU -1°34'00
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Υ 5°Υ49'51	0.64971 AU -0°23'17 0°22'41	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58	0°≈ 26°≈48'09 0° ★ 4° ★ 10'11 1° ★ 44'59 30° R≈ 28°≈35'54 25°≈50'40 25°≈43'00 21°≈43'22 20°≈37'39 20°≈11'40 23°≈33'19	0.63116 AU -1°34'00 1°32'12
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52	0° + 13° + 39'40 21° + 104'17 18° + 32'13 14° + 453'38 12° + 19'07 12° + 17'14 11° + 101'42 6° + 50'09 6° + 13'20 9° + 32'32 0° - 9°	0.64971 AU -0°23'17 0°22'41	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Y 5°Y49'51 8°Y14'27	0.64971 AU -0°23'17 0°22'41 17°56'48	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Y 5°Y49'51 8°Y14'27	0.64971 AU -0°23'17 0°22'41 17°56'48	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14	0°\text{13°\text{339'40}} 21°\text{40'17} 18°\text{432'13} 14°\text{45'3'38} 12°\text{19'07} 12°\text{17'14} 11°\text{60'\text{42}} 6°\text{45'0'09} 6°\text{41'3'20} 9°\text{45'01} 28°\text{45'01} 28°\text{45'01}	0.64971 AU -0°23'17 0°22'41 17°56'48	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 12:27 11983 Apr 13 23:08	0°\text{13°\text{339'40}} 21°\text{40'17} 18°\text{432'13} 14°\text{45'3'38} 12°\text{19'07} 12°\text{17'14} 11°\text{60'\text{42}} 6°\text{45'0'09} 6°\text{43'20} 9°\text{43'23} 0°\text{7} 5°\text{49'51} 8°\text{41'27} 28°\text{45'01} 28°\text{45'01} 0°\text{8}	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12 17°46'40
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 12 19:27 11983 Apr 13 03:08 11983 Apr 13 23:08 11983 Apr 17 00:56	0°\text{13°\text{339'40}} 21°\text{40'17} 18°\text{432'13} 14°\text{45'3'38} 12°\text{19'07} 12°\text{17'14} 11°\text{60'\text{42}} 6°\text{45'0'09} 6°\text{43'20} 9°\text{43'23} 0°\text{5°\text{49'51}} 8°\text{41'27} 28°\text{45'01} 28°\text{45'01} 28°\text{40'\text{10'10}} 0°\text{60'\text{40'\text{51'04}}} 4°\text{851'04}	0.64971 AU -0°23'17 0°22'41 17°56'48	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12 17°46'40
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 03:08 11983 Apr 13 23:08 11983 Apr 17 00:56 11983 Apr 29 05:15	0°\text{13°\text{339'40}} 21°\text{40'17} 18°\text{432'13} 14°\text{45'3'38} 12°\text{19'07} 12°\text{17'14} 11°\text{60'\text{42}} 6°\text{45'009} 6°\text{43'20} 9°\text{43'23} 0°\text{50'\text{49'51}} 8°\text{41'27} 28°\text{45'01} 28°\text{45'01} 28°\text{45'04}	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 13:00 11984 Mar 23 13:00	0°≈ 26°≈48'09 0° \times 4° \times 10'11 1° \times 44'59 30° \times 28°≈35'54 25°≈50'40 25°≈43'00 21°≈43'22 20°≈37'39 20°≈11'40 23°≈33'19 0° \times 18° \times 19'20 28° \times 45'16 0° \times 9° \times 05'01 8° \times 45'37	0.63116 AU -1°34'00 1°32'12 17°46'40 -0°45'52 0°45'14
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 25 01:01 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 23:08 11983 Apr 17 00:56 11983 Apr 29 05:15 11983 May 03 07:09	0°\text{13°\text{339'40}} 21°\text{40'17} 18°\text{432'13} 14°\text{45'3'38} 12°\text{19'07} 12°\text{17'14} 11°\text{60'\text{42}} 6°\text{45'019} 6°\text{41'27} 28°\text{45'01} 28°\text{45'04} 0°\text{13'20}	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42 1.45445 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 08 07:40 11984 Feb 08 10:46 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 13:00 11984 Mar 23 08:18 11984 Mar 23 08:18	0°≈ 26°≈48'09 0° \times 4° \times 10'11 1° \times 44'59 30° \times 28°≈35'54 25°≈50'40 25°≈43'00 21°≈43'22 20°≈37'39 20°≈11'40 23°≈33'19 0° \times 18° \times 19'20 28° \times 45'16 0° \times 9° \times 50'01 8° \times 45'37 19° \times 14'39	0.63116 AU -1°34'00 1°32'12 17°46'40
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 23:08 11983 Apr 17 00:56 11983 Apr 29 05:15 11983 May 03 07:09 11983 May 13 10:59	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Υ 5°Y49'51 8°Υ14'27 28°Υ45'01 28°Υ10'10 0°8 4°∀51'04 23°∀45'04 0°Ⅲ 15°Ⅲ17'01	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 13:00 11984 Mar 23 08:18 11984 Mar 29 19:17 11984 Mar 29 19:17	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12 17°46'40 -0°45'52 0°45'14
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 23:08 11983 Apr 13 23:08 11983 Apr 29 05:15 11983 May 03 07:09 11983 May 13 10:59 11983 May 24 15:39	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Υ 5°Y49'51 8°Υ14'27 28°Υ45'01 28°Υ10'10 0°8 4°851'04 23°845'04 0°Π 15°Π17'01 0°\$	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42 1.45445 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 17 13:24 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 13:00 11984 Mar 23 08:18 11984 Mar 29 19:17 11984 Apr 05 15:26 11984 Apr 07 16:47	0°≈ 26°≈48'09 0° \times 4° \times 10'11 1° \times 44'59 30° \times 28°≈35'54 25°≈50'40 25°≈43'00 21°≈43'22 20°≈37'39 20°≈11'40 23°≈33'19 0° \times 18° \times 19'20 28° \times 45'16 0° \times 9° \times 0'5'01 8° \times 45'37 19° \times 14'39 0° \times 3° \times 10'32	0.63116 AU -1°34'00 1°32'12 17°46'40 -0°45'52 0°45'14
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 23:08 11983 Apr 13 23:08 11983 Apr 29 05:15 11983 May 03 07:09 11983 May 13 10:59 11983 May 24 15:39 11983 May 25 03:16	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Y 5°Y49'51 8°Y14'27 28°Y45'01 28°Y10'10 0°8 4°851'04 0°Ⅲ 15°Ⅲ17'01 0°\$ 0°\$29'49	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42 1.45445 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 15 05:18 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 13:00 11984 Mar 23 08:18 11984 Mar 29 19:17 11984 Apr 05 15:26 11984 Apr 07 16:47 11984 Apr 07 16:47 11984 Apr 25 19:08	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12 17°46'40 -0°45'52 0°45'14 1.44432 AU
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 23:08 11983 Apr 13 23:08 11983 Apr 17 00:56 11983 Apr 29 05:15 11983 May 03 07:09 11983 May 13 10:59 11983 May 24 15:39 11983 May 25 03:16 11983 May 25 02:09	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Υ 5°Y49'51 8°Y14'27 28°Y45'01 28°Y10'10 0°℧ 4°℧51'04 23°℧45'04 0°Ⅲ 15°Ⅲ17'01 0°郖 0°郖29'49 0°郖29'49	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42 1.45445 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise evening max el	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 15 05:18 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 08:18 11984 Mar 29 19:17 11984 Apr 05 15:26 11984 Apr 07 16:47 11984 Apr 25 19:08 11984 May 07 03:31	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12 17°46'40 -0°45'52 0°45'14
retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	11983 Jan 17 22:13 11983 Jan 29 13:28 11983 Feb 12 01:22 11983 Feb 18 18:40 11983 Feb 22 16:10 11983 Feb 25 00:20 11983 Feb 26 04:49 11983 Mar 03 09:01 11983 Mar 06 00:28 11983 Mar 12 09:12 11983 Mar 26 12:52 11983 Mar 30 01:33 11983 Mar 31 12:33 11983 Apr 13 04:14 11983 Apr 13 04:14 11983 Apr 13 23:08 11983 Apr 13 23:08 11983 Apr 29 05:15 11983 May 03 07:09 11983 May 13 10:59 11983 May 24 15:39 11983 May 25 03:16	0°¥ 13°¥39'40 21°¥04'17 18°¥32'13 14°¥53'38 12°¥19'07 12°¥17'14 11°¥01'42 6°¥50'09 6°¥13'20 9°¥32'32 0°Y 5°Y49'51 8°Y14'27 28°Y45'01 28°Y10'10 0°8 4°851'04 0°Ⅲ 15°Ⅲ17'01 0°\$ 0°\$29'49	0.64971 AU -0°23'17 0°22'41 17°56'48 -1°26'22 1°25'42 1.45445 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	11983 Dec 22 19:16 11984 Jan 12 01:05 11984 Jan 15 18:22 11984 Jan 25 19:48 11984 Feb 01 18:34 11984 Feb 03 23:59 11984 Feb 05 12:43 11984 Feb 08 07:40 11984 Feb 13 02:10 11984 Feb 15 05:18 11984 Feb 15 05:18 11984 Feb 24 02:58 11984 Feb 29 06:57 11984 Mar 11 07:53 11984 Mar 17 09:10 11984 Mar 18 02:44 11984 Mar 23 13:00 11984 Mar 23 08:18 11984 Mar 29 19:17 11984 Apr 05 15:26 11984 Apr 07 16:47 11984 Apr 07 16:47 11984 Apr 25 19:08	0°≈ 26°≈48'09 0°	0.63116 AU -1°34'00 1°32'12 17°46'40 -0°45'52 0°45'14 1.44432 AU

evening set

11983 Jun 08 15:14 30°R**Ⅱ**

11984 May 19 16:34 17°**Д**28'16

	1100434 24 22 55	110 T 10 0	2010117		11005 4 20 00 51	201127112	
inferior conj	11984 May 24 22:55	11° I I18'26		retrograde	11985 Apr 29 09:51	3° Ⅱ 37'13	
minimum elong	11984 May 24 22:02	11° Ⅱ 21'31	3°09'28	evening set	11985 May 04 01:04	1° Ⅱ 42'37	
min. Earth dist.	11984 May 25 11:11	10° Ⅱ 36′00	0.68380 AU		11985 May 05 18:48	30° ₹ 8	
morning rise	11984 May 30 03:16	5° Ⅱ 00'38		inferior conj	11985 May 09 08:01	25° 8 22'41	2°54'43
direct	11984 Jun 04 11:43	2° Ⅱ 39'12		minimum elong	11985 May 09 06:21	25° 8 28'29	2°53'49
desc. node	11984 Jun 13 10:13	7° Ⅱ 19'08		min. Earth dist.	11985 May 09 07:17	25° 8 25'14	0.68761 AU
morning max el	11984 Jun 15 06:20	9° Ⅱ 05'08	23°41'36	morning rise	11985 May 14 11:29	19° 8 10'14	
	11984 Jul 01 17:22	0 \circ		direct	11985 May 19 06:48	17° 8 07'32	
morning set	11984 Jul 20 09:44	29° © 15'58		morning max el	11985 May 28 18:20	22° 8 41'40	22°12'33
	11984 Jul 20 20:06	0 $^{\circ}\Omega$		desc. node	11985 May 31 07:10	25° 8 24'21	
max. Earth dist.	11984 Jul 24 07:07	5° Ω 58'58	1.38878 AU		11985 Jun 04 03:00	Π $^{\circ}0$	
					11985 Jun 25 00:59	0 \circ \odot	
superior conj	11984 Jul 31 19:19	19° Ω 38′03		morning set	11985 Jun 30 23:18	9° © 23'39	
minimum elong	11984 Jul 31 23:12	19° Ω 56'17	0°55'25	max. Earth dist.	11985 Jul 06 06:25	18° © 06'34	1.41164 AU
	11984 Aug 06 05:16	0° m)			11985 Jul 13 04:15	0 $^{\circ}\Omega$	
asc. node	11984 Aug 06 22:54	1°Mp25'46					
evening rise	11984 Aug 09 23:02	7° Mp 17'46		superior conj	11985 Jul 14 01:17	1° Ω 33'10	-1°28'44
	11984 Aug 23 00:37	0∘ ⊽		minimum elong	11985 Jul 14 07:29	2° Ω 00'45	1°28'41
evening max el	11984 Aug 26 04:15	3° ≙ 39'51	18°49'10	evening rise	11985 Jul 24 11:10	20° £ 38′23	
retrograde	11984 Sep 03 15:05	7° ≙ 53'53		asc. node	11985 Jul 24 19:41	21° Ω 18′03	
evening set	11984 Sep 05 12:44	7° ≙ 41'48			11985 Jul 29 13:05	0° m y	
desc. node	11984 Sep 09 07:50	6° ₽ 13'35		evening max el	11985 Aug 09 11:16	16° Mp 12′05	18°16'39
inferior conj	11984 Sep 13 16:55	3° ₽ 21′26	-1°22'33	retrograde	11985 Aug 16 18:23	19° m 53'27	
minimum elong	11984 Sep 13 13:28	3° ₽ 27'41	1°21'13	evening set	11985 Aug 18 22:31	19° m 34'32	
min. Earth dist.	11984 Sep 16 18:22	1° ≏ 09'29	0.56774 AU	inferior conj	11985 Aug 26 07:41	14° m 53'46	0°16'30
	11984 Sep 18 12:21	30°R, Mp		minimum elong	11985 Aug 26 08:15	14° m 52'35	0°16'00
morning rise	11984 Sep 21 10:51	28° m 24'31		transit middle	11985 Aug 26 08:15	14° m 52'35	0°16'00
direct	11984 Sep 27 03:27	27° Mp 06'21		transit begin	11985 Aug 26 07:45	14° m 53'38	
	11984 Oct 05 19:52	0∘ ত		transit end	11985 Aug 26 08:45	14° m 51'32	
morning max el	11984 Oct 11 09:37	4° ₽ 29'26	26°21'07	desc. node	11985 Aug 27 05:15	14° m 07'58	
	11984 Oct 29 20:56	0° M .		min. Earth dist.	11985 Aug 29 15:47	12° m 05'49	0.58825 AU
asc. node	11984 Nov 03 00:16	7° M 39'47		morning rise	11985 Sep 02 14:31	9° ™ 21'43	
morning set	11984 Nov 09 02:18	20°M05'24		direct	11985 Sep 08 21:36	7° m 34'48	
	11984 Nov 13 15:04	0° ∡ ¹		morning max el	11985 Sep 23 06:03	15° m 19'52	27°27'34
					11985 Oct 05 03:56	0∘ ऌ	
superior conj	11984 Nov 15 22:03	5° ∡ 105'44	1°35'36	asc. node	11985 Oct 20 21:02	27° ≙ 14'17	
minimum elong	11984 Nov 15 20:56	4° ∡ ¹59'35	1°36'15		11985 Oct 22 05:43	0°M₊	
max. Earth dist.	11984 Nov 16 15:41	6° ∡ ¹43'47	1.31577 AU	morning set	11985 Oct 24 10:05	4°M32'49	
evening rise	11984 Nov 22 20:26	20° ∡ 12′04					
	11984 Nov 27 16:18	0°ರ		superior conj	11985 Oct 31 09:47	19° M 50'18	1°26'33
desc. node	11984 Dec 06 05:10	15° る 22'30		minimum elong	11985 Oct 31 07:56	19° M 39'54	1°26'56
	11984 Dec 16 02:54	0° ≈		max. Earth dist.	11985 Oct 31 00:33	18° M 58'47	1.31321 AU
evening max el	11984 Dec 24 08:25	9° ≈ 17'34	27°17'27		11985 Nov 04 23:43	0° ∡ ¹	
retrograde	11985 Jan 07 06:30	16° ≈ 32'57		evening rise	11985 Nov 07 03:31	4° ∡ °40'37	
evening set	11985 Jan 14 04:42	14° ≈ 23'18			11985 Nov 20 09:51	5°0	
min. Earth dist.	11985 Jan 17 22:55	11° ≈ 36′39	0.61035 AU	desc. node	11985 Nov 23 02:18	4° る 17'15	
inferior conj	11985 Jan 21 01:33	8° ≈ 54'09	-2°51'49	evening max el	11985 Dec 06 09:03	20° る 58'19	26°28'16
minimum elong	11985 Jan 21 07:31	8° ≈ 41'07	2°48'52	retrograde	11985 Dec 20 07:48	28° る 04'49	
morning rise					11700 200 20 07.10		
asc. node	11985 Jan 28 13:12	4° ≈ 00'06		evening set	11985 Dec 26 21:01	26° る 19'48	
	11985 Jan 28 13:12 11985 Jan 29 23:30	4°≈00'06 3°≈43'24		evening set min. Earth dist.		26°ප19'48 23°ප43'43	0.58893 AU
direct				=	11985 Dec 26 21:01		
direct morning max el	11985 Jan 29 23:30	3° ≈ 43'24	17°54'41	min. Earth dist.	11985 Dec 26 21:01 11985 Dec 30 22:47	23° る 43'43	
	11985 Jan 29 23:30 11985 Jan 30 16:22	3°≈43'24 3°≈41'20	17°54'41	min. Earth dist.	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26	23°පි43'43 21°පි20'13	-4°10'23
	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56	3°≈43'24 3°≈41'20 7°≈15'37	17°54'41	min. Earth dist. inferior conj minimum elong	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37	23°543'43 21°520'13 21°504'39	-4°10'23
morning max el	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00	3°≈43'24 3°≈41'20 7°≈15'37 0°¥	17°54'41	min. Earth dist. inferior conj minimum elong morning rise	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04	23°543'43 21°520'13 21°504'39 16°547'26	-4°10'23
morning max el morning set	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32	3°≈43'24 3°≈41'20 7°≈15'37 0°¥ 1°¥42'38	17°54'41	min. Earth dist. inferior conj minimum elong morning rise direct	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08	23° \(\delta\) 43'43 21° \(\delta\) 20'13 21° \(\delta\) 04'39 16° \(\delta\) 47'26 16° \(\delta\) 32'16	-4°10'23
morning max el morning set	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32	3°≈43'24 3°≈41'20 7°≈15'37 0°¥ 1°¥42'38		min. Earth dist. inferior conj minimum elong morning rise direct asc. node	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43	23° 543'43 21° 520'13 21° 504'39 16° 547'26 16° 532'16 17° 521'12	-4°10'23 4°07'07
morning max el morning set desc. node	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46	3°≈43'24 3°≈41'20 7°≈15'37 0°₩ 1°₩42'38 19°₩22'00	-0°05'23	min. Earth dist. inferior conj minimum elong morning rise direct asc. node	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21	23° පි43'43 21° පි20'13 21° පි04'39 16° පි47'26 16° පි32'16 17° පි21'12 20° පි28'54	-4°10'23 4°07'07
morning max el morning set desc. node superior conj	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46	3°≈43'24 3°≈41'20 7°≈15'37 0°₩ 1°₩42'38 19°₩22'00 20°₩34'12	-0°05'23	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47	23°♂43'43 21°♂20'13 21°♂04'39 16°♂47'26 16°♂32'16 17°♂21'12 20°♂28'54 0°≈	-4°10'23 4°07'07
morning max el morning set desc. node superior conj minimum elong	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56	3°≈43'24 3°≈41'20 7°≈15'37 0°¥ 1°¥42'38 19°¥22'00 20°¥34'12 20°¥32'15	-0°05'23	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52	23°石43'43 21°石20'13 21°石04'39 16°石47'26 16°石32'16 17°石21'12 20°石28'54 0°≈ 15°≈43'00	-4°10'23 4°07'07
morning max el morning set desc. node superior conj minimum elong behind sun begin	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04	3°≈43'24 3°≈41'20 7°≈15'37 0° ₩ 1° ₩42'38 19° ₩22'00 20° ₩34'12 20° ₩32'15 19° ₩58'06	-0°05'23	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52	23°石43'43 21°石20'13 21°石04'39 16°石47'26 16°石32'16 17°石21'12 20°石28'54 0°≈ 15°≈43'00	-4°10'23 4°07'07
morning max el morning set desc. node superior conj minimum elong behind sun begin	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04 11985 Mar 05 05:47	3°≈43'24 3°≈41'20 7°≈15'37 0° ₩ 1° ₩42'38 19° ₩22'00 20° ₩34'12 20° ₩32'15 19° ₩58'06 21° ₩06'19	-0°05'23	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52 11986 Feb 13 13:53	23°云43'43 21°云20'13 21°云04'39 16°云47'26 16°云32'16 17°云21'12 20°云28'54 0°≈ 15°≈43'00 0°光	-4°10'23 4°07'07 18°22'19
morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04 11985 Mar 05 05:47 11985 Mar 10 11:30	3°≈43'24 3°≈41'20 7°≈15'37 0° ₩ 1° ₩42'38 19° ₩22'00 20° ₩34'12 20° ₩32'15 19° ₩58'06 21° ₩06'19 0° ♥	-0°05'23 0°05'06	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52 11986 Feb 13 13:53	23°る43'43 21°る20'13 21°る04'39 16°る47'26 16°る32'16 17°る21'12 20°る28'54 0°≈ 15°≈43'00 0°米	-4°10'23 4°07'07 18°22'19
morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04 11985 Mar 05 05:47 11985 Mar 10 11:30 11985 Mar 12 09:19	3°≈43'24 3°≈41'20 7°≈15'37 0° ₩ 1° ₩42'38 19° ₩22'00 20° ₩34'12 20° ₩32'15 19° ₩58'06 21° ₩06'19 0° Ψ 3° Ψ'09'31	-0°05'23 0°05'06	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52 11986 Feb 13 13:53 11986 Feb 15 06:01 11986 Feb 15 08:06	23°る43'43 21°る20'13 21°る04'39 16°る47'26 16°る32'16 17°る21'12 20°る28'54 0°≈ 15°≈43'00 0°升 3°升05'01 3°升14'33	-4°10'23 4°07'07 18°22'19
morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04 11985 Mar 05 05:47 11985 Mar 10 11:30 11985 Mar 12 09:19 11985 Mar 18 13:52	3°≈43'24 3°≈41'20 7°≈15'37 0° ℋ 1° ℋ42'38 19° ℋ22'00 20° ℋ34'12 20° ℋ32'15 19° ℋ58'06 21° ℋ06'19 0° ℉ 3° ℉09'31 13° ℉07'01	-0°05'23 0°05'06 1.42820 AU	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52 11986 Feb 13 13:53 11986 Feb 15 06:01 11986 Feb 15 08:06 11986 Feb 19 02:25	23°る43'43 21°る20'13 21°る04'39 16°る47'26 16°る32'16 17°る21'12 20°る28'54 0°≈ 15°≈43'00 0°米 3°米05'01 3°米14'33 10°米01'18	-4°10'23 4°07'07 18°22'19 0°29'59 0°30'06
morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04 11985 Mar 05 05:47 11985 Mar 10 11:30 11985 Mar 12 09:19 11985 Mar 18 13:52 11985 Mar 29 15:28	3°≈43'24 3°≈41'20 7°≈15'37 0° ℋ 1° ℋ42'38 19° ℋ22'00 20° ℋ34'12 20° ℋ32'15 19° ℋ58'06 21° ℋ06'19 0° ℉ 3° ℉09'31 13° ℉07'01 0° ♉	-0°05'23 0°05'06 1.42820 AU	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52 11986 Feb 13 13:53 11986 Feb 15 06:01 11986 Feb 15 08:06 11986 Feb 19 02:25 11986 Feb 22 18:37	23° 중43'43 21° 중20'13 21° 중04'39 16° 중47'26 16° 중32'16 17° 중21'12 20° 중28'54 0° ≈ 15° ≈43'00 0° 光 3° 米05'01 3° 米14'33 10° 米01'18 16° 米25'20	-4°10'23 4°07'07 18°22'19 0°29'59 0°30'06
morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	11985 Jan 29 23:30 11985 Jan 30 16:22 11985 Feb 06 18:56 11985 Feb 21 11:00 11985 Feb 22 09:32 11985 Mar 04 05:46 11985 Mar 04 22:23 11985 Mar 04 21:56 11985 Mar 04 14:04 11985 Mar 05 05:47 11985 Mar 10 11:30 11985 Mar 12 09:19 11985 Mar 18 13:52 11985 Mar 29 15:28 11985 Apr 19 22:26	3°≈43'24 3°≈41'20 7°≈15'37 0° ₩ 1° ₩42'38 19° ₩22'00 20° ₩34'12 20° ₩32'15 19° ₩58'06 21° ₩06'19 0° Ψ 3° Ψ09'31 13° Ψ07'01 0° ₩ 28° ₩301'56	-0°05'23 0°05'06 1.42820 AU	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	11985 Dec 26 21:01 11985 Dec 30 22:47 11986 Jan 03 02:26 11986 Jan 03 10:37 11986 Jan 11 03:04 11986 Jan 13 05:08 11986 Jan 16 20:43 11986 Jan 21 05:21 11986 Jan 28 08:47 11986 Feb 06 00:52 11986 Feb 13 13:53 11986 Feb 15 06:01 11986 Feb 15 08:06 11986 Feb 19 02:25 11986 Feb 22 18:37 11986 Feb 27 06:07	23° 중43'43 21° 중20'13 21° 중04'39 16° 중47'26 16° 중32'16 17° 중21'12 20° 중28'54 0° ※ 15° ※43'00 0° 光 3° 米05'01 3° 米14'33 10° 米01'18 16° 米25'20 23° 米56'22	-4°10'23 4°07'07 18°22'19 0°29'59 0°30'06

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evening max el	11986 Apr 02 13:44	11° 8 50'44	23°25'56		11987 Feb 24 00:23	0° Y	
•		18° 8 07'00	23 23 30	avanina may al	11987 Mar 16 03:30	25° Υ '42'32	24945115
retrograde	11986 Apr 13 05:02			evening max el			24-45-15
asc. node	11986 Apr 14 17:57	17° 8 55'58			11987 Mar 21 04:29	0°8	
evening set	11986 Apr 18 07:43	15° 8 58'20		retrograde	11987 Mar 27 20:24	2° 8 31'57	
min. Earth dist.	11986 Apr 23 04:05	10° 8 16'37	0.68689 AU	asc. node	11987 Apr 01 15:17	0° 8 50'16	
inferior conj	11986 Apr 23 17:14	9° 8 31'23	2°29'10	evening set	11987 Apr 02 11:01	0° 8 11'19	
minimum elong	11986 Apr 23 15:08	9° 8 38'37	2°28'11	C	11987 Apr 02 16:13	30° ₹Ƴ	
morning rise	11986 Apr 28 22:28	3° 8 25'37		min. Earth dist.	11987 Apr 06 23:21	25° Υ '05'19	0.68174 AU
direct	11986 May 03 04:47	1° 8 43'55		inferior conj	11987 Apr 08 00:42	23° Υ 41'14	1°53'50
	•		20050145		•		
morning max el	11986 May 11 11:30	6° 8 28'08	20°50'45	minimum elong	11987 Apr 07 22:35	23° Y 48'15	1°52'55
desc. node	11986 May 18 04:02	14° 8 17'37		morning rise	11987 Apr 13 10:21	17° Ƴ 43'35	
	11986 May 29 08:31	Π \circ 0		direct	11987 Apr 17 04:19	16° Ƴ 22'59	
morning set	11986 Jun 10 12:02	18° Ⅲ 25′27		morning max el	11987 Apr 24 12:12	20° Y 27′02	19°41'37
	11986 Jun 17 19:17	0 \circ \odot			11987 May 02 08:26	0°8	
max. Earth dist.	11986 Jun 18 12:00	1°907'33	1.43193 AU	desc. node	11987 May 05 00:49	3° 8 46'12	
man zarm and.	11,000 tun 10 12.00	1 -0,33	1.15175110	greatest brilliancy	11987 May 07 06:19	6° 8 59'54	-0.6m
	11006 Jun 25 00:10	129620140	105(120	-	•		-0.0111
superior conj	11986 Jun 25 09:18	12° © 29'49		morning set	11987 May 20 12:13	26° 8 58'55	
minimum elong	11986 Jun 25 15:53	12° 9 57'31	1°56'45		11987 May 22 11:14	Π °0	
	11986 Jul 05 12:03	$0 ^{\circ} \Omega$		max. Earth dist.	11987 Jun 01 00:54	14° Ⅱ 57'09	1.44723 AU
evening rise	11986 Jul 07 08:32	3° Ω 17'10					
asc. node	11986 Jul 11 16:30	10° Ω 56'55		superior conj	11987 Jun 05 17:21	22° Ⅱ 25'50	-2°12'03
evening max el	11986 Jul 23 23:39	29° Ω 14'16	18°03'54	minimum elong	11987 Jun 05 19:57	22° II 36'21	2°12'47
evening max er	11986 Jul 24 19:13	0° m)	10 0551	minimum crong	11987 Jun 10 09:13	0°95	2 12 17
. 1		•					
retrograde	11986 Jul 30 14:12	2° m/37'54		evening rise	11987 Jun 19 10:16	15°503'41	
evening set	11986 Aug 02 02:22	2° Mp 08'25			11987 Jun 28 09:04	0 \circ Ω	
	11986 Aug 05 14:26	30° ₹ Ω		asc. node	11987 Jun 28 13:25	0° Ω 17'29	
inferior conj	11986 Aug 08 18:18	27° Ω 07'38	1°32'24	evening max el	11987 Jul 07 13:45	12° Ω 37′20	18°09'54
minimum elong	11986 Aug 08 20:42	27° Ω 01'46	1°31'06	retrograde	11987 Jul 13 22:20	15° Ω 58′01	
min. Earth dist.	11986 Aug 11 21:27	24° Ω 05'39	0.61103 AU	evening set	11987 Jul 16 18:38	15° Ω 15'19	
desc. node	11986 Aug 14 02:39	22°Ω10'57		inferior conj	11987 Jul 22 20:57	9°Ω56'18	2°24'43
	-					9° Ω 49'15	
morning rise	11986 Aug 15 12:21	21° Ω 09'41		minimum elong	11987 Jul 22 23:30		
direct	11986 Aug 22 03:31	18° Ω 56′23		min. Earth dist.	11987 Jul 25 12:30	7° Ω 02'11	0.63319 AU
morning max el	11986 Sep 05 09:17	26° Ω 54'22	27°56'45	morning rise	11987 Jul 29 02:39	3° Ω 42'30	
	11986 Sep 08 07:31	0° m y		desc. node	11987 Jul 31 23:59	1° £ 58′32	
	11986 Sep 28 19:46	0∘ ⊽		direct	11987 Aug 04 18:59	1° Ω 10'14	
asc. node	11986 Oct 07 17:44	17° ഫ 03'32		morning max el	11987 Aug 18 17:40	9° Ω 12'06	27°47'38
morning set	11986 Oct 08 13:01	18° ≏ 42'52		Ü	11987 Sep 03 21:47	0° m)	
morning sec	11986 Oct 13 19:49	0°M			11987 Sep 33 21:17 11987 Sep 21 02:45	0∘ ⊽	
E4b 4i-4			1 21572 ATT				
max. Earth dist.	11986 Oct 14 07:54	1 160614	1.31572 AU	morning set	11987 Sep 22 08:55	2° ₽ 30'08	
				asc. node	11987 Sep 24 14:25	7° ഫ 02'33	
superior conj	11986 Oct 15 20:23	4°M27'25	1°11'57	max. Earth dist.	11987 Sep 27 09:59	12° ≏ 56'59	1.32337 AU
minimum elong	11986 Oct 15 18:09	4°MJ5'03	1°12'01				
evening rise	11986 Oct 22 13:38	19° M .14'57		superior conj	11987 Sep 30 03:55	18° ≏ 51'37	0°51'57
Č	11986 Oct 27 17:56	0° ∡ ¹		minimum elong	11987 Sep 30 01:49	18° ≏ 40'13	0°51'46
desc. node	11986 Nov 09 23:30	22° ∡ ¹20'25			11987 Oct 05 06:23	0°M₊	
dese. Hode	11986 Nov 16 06:32	0°중		avanina rias	11987 Oct 03 00:25	3°M49'53	
			25000122	evening rise			
evening max el	11986 Nov 18 01:27	1° る 47'31	25°08'22		11987 Oct 20 23:11	0° ∡ 7	
retrograde	11986 Dec 01 21:27	8° る 43'47		desc. node	11987 Oct 27 20:46	9° ∡ 12'41	
evening set	11986 Dec 07 15:00	7° る 29'49		evening max el	11987 Oct 30 12:00	11° ∡ ′58′36	23°29'47
min. Earth dist.	11986 Dec 12 13:30	4° ₹ 48'10	0.56919 AU	retrograde	11987 Nov 12 22:18	18° ∡ ¹40'06	
inferior conj	11986 Dec 15 07:20	2° る 59'42	-5°16'54	evening set	11987 Nov 17 09:02	17° ∡ ′57′06	
minimum elong	11986 Dec 15 14:46	2° ප් 47'24		min. Earth dist.	11987 Nov 23 21:59	14° ∡ ′51′10	0.55398 AU
minimum crong	11986 Dec 20 08:30	30°R. ₹	3 11 13	inferior conj	11987 Nov 25 16:03	13° ∡ 49'27	
morning rise	11986 Dec 23 16:47	28° ∡ ¹48'54		minimum elong	11987 Nov 25 17:27	13° ⋌ ¹47'22	5°50'03
direct	11986 Dec 26 00:01	28° ∡ ³33'35		morning rise	11987 Dec 04 03:39	9° ∡ 757'00	
	11986 Dec 31 06:40	0° ප		direct	11987 Dec 06 23:36	9° ∡ ³37'27	
asc. node	11987 Jan 03 17:52	2° る 32'42		morning max el	11987 Dec 17 18:06	14° ⊀ ³44'40	20°23'46
morning max el	11987 Jan 04 06:13	3° ට 01'43	19°11'33	asc. node	11987 Dec 21 14:58	19° ∡ '03'31	
5	11987 Jan 20 23:57	0° ≈			11987 Dec 28 17:35	0°ਰ	
morning set	11987 Jan 21 01:27	0°≈07'31		morning set	11988 Jan 05 08:04	14°る46'20	
morning set	1170 / Jan 21 VI.2/	0 ~0/31		morning set	11700 Jan 03 00.04	17 04020	
	11007 1 00 07 1	1.60 2	0050105		11000 * 10 ***	00 4000	1010122
superior conj	11987 Jan 29 07:14	16° ≈ 24'15	0°58'05	superior conj	11988 Jan 12 21:30	0° ≈ 19'04	
minimum elong	11987 Jan 29 10:09	16° ≈ 38′19	0°58'18	minimum elong	11988 Jan 13 00:06	0° ≈ 32'15	1°19'01
max. Earth dist.	11987 Feb 05 01:11	29° ≈ 01'09	1.38566 AU		11988 Jan 12 17:44	0° ≈ ≈	
desc. node	11987 Feb 05 23:05	0°) 39'31		max. Earth dist.	11988 Jan 18 08:46	11° ≈ 05'58	1.36397 AU
	11987 Feb 05 14:16	0°) €		evening rise	11988 Jan 22 04:26	18° ≈ 14'35	
evening rise	11987 Feb 08 19:40	5° ∺ 41'10		desc. node	11988 Jan 23 19:47	21°≈12'32	
Croning 1150	1170/160 00 17.40	J /\⊤1 10		acse. Houc	11700 Jan 43 17.4/	21 ~1232	

	11988 Jan 28 21:27	0° \			11989 Feb 17 23:23	0°Υ	
	11988 Jan 28 21.27 11988 Feb 18 06:01	0°Υ		retrograde	11989 Feb	0° Υ 38'47	
evening max el	11988 Feb 26 16:57	9° Υ 32'46	25°56'32	renograde	11989 Feb 24 20:01	0 13647 30°R ∺	
retrograde	11988 Mar 10 07:01	9 1 32 40 16° Υ 44'55	23 30 32	evening set	11989 Feb 24 20:01 11989 Feb 28 00:43	28° ₩ 05'40	
•	11988 Mar 16 09:17	14° Y 15'35		min. Earth dist.		24° H 08'43	0.65902 AU
evening set	11988 Mar 18 12:39	14 γ 13 33 12° γ 11'51			11989 Mar 04 00:44 11989 Mar 05 10:01	24 K 08 43 22° H 32'27	0.03902 AU
asc. node		9° Y 44'46	0.67224 ATT	asc. node		21° H 44'50	0°13'11
min. Earth dist.	11988 Mar 20 14:55	9° γ 44°46 7° Υ 47'11	0.67234 AU 1°08'35	inferior conj	11989 Mar 06 02:20	21° X 44'50 21° X 45'54	0°13'11 0°13'14
inferior conj	11988 Mar 22 04:27			minimum elong	11989 Mar 06 01:58	21° X 45'54	
minimum elong	11988 Mar 22 02:52	7° Υ 52'09 1° Υ 59'13	1°07'58	transit middle	11989 Mar 06 01:58		0°13'14
morning rise	11988 Mar 27 21:06	0° Υ 58'08		transit begin	11989 Mar 06 00:18	21°) 50'45	
direct	11988 Mar 31 03:39		10045150	transit end	11989 Mar 06 03:38	21°) (41'03	
morning max el	11988 Apr 06 20:26	4° Υ 35'03	18°47'50	morning rise	11989 Mar 12 04:31	16°) €08'24	
desc. node	11988 Apr 20 21:29	23° Y 39'57		direct	11989 Mar 15 00:57	15° ¥ 23'52	10010120
	11988 Apr 24 23:52	0°8		morning max el	11989 Mar 21 10:31	18°) 46′22	18°10'30
morning set	11988 Apr 28 22:03	6° 8 06'29	1 45506 ATT		11989 Mar 30 00:15	0° Υ	
max. Earth dist.	11988 May 13 18:43	29° 8 17'32	1.45586 AU	desc. node	11989 Apr 07 18:08	13° Y 52'03	
	11988 May 14 05:34	Π $^{\circ}$ 0		morning set	11989 Apr 09 09:52	16° Y 32'19	
	11000 14 15 05 52	101725112	2000112		11989 Apr 17 19:29	9° 8	
superior conj	11988 May 15 05:52	1° Ⅱ 35'12			11000 4 24 12 17	100 420110	1046126
minimum elong	11988 May 15 00:57	1° Ⅱ 15'57	2°09'43	superior conj	11989 Apr 24 13:17	10° 8 38'10	
evening rise	11988 May 30 12:18	25° Ⅱ 49'54		minimum elong	11989 Apr 24 03:58	10° 8 01'40	1°46'05
,	11988 Jun 02 02:26	0°©		max. Earth dist.	11989 Apr 26 14:17	13° 8 49'59	1.45709 AU
asc. node	11988 Jun 14 10:23	19°5512'40	10022150		11989 May 06 23:25	0°II	
evening max el	11988 Jun 20 02:26	26°5513'08	18°33'58	evening rise	11989 May 10 15:12	5° I I41'01	0.7
retrograde	11988 Jun 26 14:29	29°544'35		greatest brilliancy	11989 May 22 11:17	23° I 55'15	-0./m
evening set	11988 Jun 29 19:03	28°547'00	2056140		11989 May 26 14:17	0.00	
inferior conj	11988 Jul 05 11:36	23°9511'47	2°56'48	asc. node	11989 Jun 01 07:28	7°933'53	10015115
minimum elong	11988 Jul 05 13:25	23°506'16	2°55'43	evening max el	11989 Jun 03 11:20	9°955'44	19°15'15
min. Earth dist.	11988 Jul 07 12:50	20°542'54	0.65268 AU	retrograde	11989 Jun 10 11:15	13°950'32	
morning rise	11988 Jul 11 06:48	16°950'31		evening set	11989 Jun 14 00:30	12°537'04	2012122
direct	11988 Jul 17 18:36	14°509'05		inferior conj	11989 Jun 19 10:48	6°547'19	3°12'22 3°11'30
desc. node	11988 Jul 17 21:16 11988 Jul 31 04:32	14°509'08 22°503'34	27°04'58	minimum elong min. Earth dist.	11989 Jun 19 11:33 11989 Jun 20 21:17	6°9344'54 4°955'15	0.66831 AU
morning max el	11988 Aug 07 03:23	22 3 03 34 0° Ω	27 04 36	morning rise	11989 Jun 24 22:04	0°924'37	0.00631 AU
	11988 Aug 07 03:23 11988 Aug 27 03:20	0° m)		morning rise	11989 Jun 25 09:37	0 € 3 2437 30°R I I	
morning set	11988 Sep 04 19:01	15° Mp 47'52		direct	11989 Jul 01 01:12	27° Ⅱ 44'09	
max. Earth dist.	11988 Sep 09 03:19	24° m) 24'34	1.33619 AU	desc. node	11989 Jul 04 18:28	28° I 33'26	
asc. node	11988 Sep 10 11:05	27° m) 07'02	1.55017 AC	desc. node	11989 Jul 07 10:29	0°95	
asc. Houc	11988 Sep 10 11:03	ე∘ <u>ი</u>		morning max el	11989 Jul 13 15:22	5°916'08	25°56'48
	11700 Бер 11 20.27	· –		morning max er	11989 Aug 01 15:32	0° U	25 50 40
superior conj	11988 Sep 13 06:15	2° ≏ 57'18	0°26'51	morning set	11989 Aug 18 15:45	28° Ω 26'59	
minimum elong	11988 Sep 13 04:56	2° ₽ 50'18	0°26'34		11989 Aug 19 11:52	0° m/y	
evening rise	11988 Sep 20 11:32	18° ♀ 20'16	0 2031	max. Earth dist.	11989 Aug 22 10:10		1.35393 AU
e vening rise	11988 Sep 26 04:57	0° M		max. Burtii dist.	11707 1146 22 10:10	3 m/32 00	1.55575710
evening max el	11988 Oct 11 00:54	22°M05'05	21°50'02	superior conj	11989 Aug 28 00:49	16° m 37'36	-0°02'48
desc. node	11988 Oct 13 18:06	24°M28'44		minimum elong	11989 Aug 28 01:00	16° m 38'29	0°03'02
retrograde	11988 Oct 23 12:44	28°M17'48		behind sun begin	11989 Aug 27 18:59	16° Mp 08'02	
evening set	11988 Oct 26 13:09	27° M 57'18		behind sun end	11989 Aug 28 07:00	17° m 09'00	
inferior conj	11988 Nov 04 10:31	24°ML01'05	-5°31'17	asc. node	11989 Aug 28 07:47	17° m) 12'56	
minimum elong	11988 Nov 04 03:30	24°M10'54			11989 Sep 03 12:25	0∘ ⊽	
min. Earth dist.	11988 Nov 04 04:35	24°M09'23	0.54611 AU	evening rise	11989 Sep 04 19:24	2° ≏ 40'18	
morning rise	11988 Nov 12 19:04	20°M13'47		Ü	11989 Sep 20 14:08	0° M .	
direct	11988 Nov 16 09:17	19° M .45'33		evening max el	11989 Sep 23 01:02	2°M42'04	20°23'35
morning max el	11988 Nov 28 16:16	25°M36'26	21°57'21	desc. node	11989 Sep 30 15:31	7° M 39'03	
	11988 Dec 02 17:26	0° ⊼ ¹		retrograde	11989 Oct 04 00:33	8°M09'21	
asc. node	11988 Dec 07 11:59	6° ∡ ³37'08		evening set	11989 Oct 06 02:29	7°M58'28	
morning set	11988 Dec 19 18:17	29° ∡ ³32'36		inferior conj	11989 Oct 15 03:25	4°ML02'03	-4°15'08
C	11988 Dec 19 23:29	ರ°0		minimum elong	11989 Oct 14 17:27	4°M16'37	4°11'48
				min. Earth dist.	11989 Oct 16 12:37	3°M13'28	0.54757 AU
superior conj	11988 Dec 26 21:07	14° る 39'05	1°31'43	morning rise	11989 Oct 23 07:47	29° ჲ 59'15	
minimum elong	11988 Dec 26 22:49	14° ප් 48'02	1°32'24	ū	11989 Oct 23 06:49	30° ₹ Ω	
max. Earth dist.	11988 Dec 30 21:41	22° る 58'19	1.34492 AU	direct	11989 Oct 27 18:26	29° ≏ 16'40	
	11989 Jan 03 10:43	0° ≈			11989 Nov 01 03:49	0° M.	
evening rise	11989 Jan 04 05:02	1° ≈ 28'22		morning max el	11989 Nov 10 04:46	5°M49'28	23°44'14
desc. node	11989 Jan 09 16:35	11° ≈ 36′27		asc. node	11989 Nov 24 08:56	24°M57'50	
	11989 Jan 20 21:33	0° ∀			11989 Nov 27 03:49	0° ∡ ¹	
evening max el	11989 Feb 08 06:27	23° ¥ 15′03	26°52'24	morning set	11989 Dec 04 06:02	14° ₹ 19'19	

superior conj	11989 Dec 11 02:59	29° √ 14'11	1°38'07	superior conj	11990 Nov 25 12:42	13° ∡ 57′20	1°38'13
minimum elong	11989 Dec 11 02:39	29° x *1411 29° x *17'16	1°38'55	minimum elong	11990 Nov 25 12:42 11990 Nov 25 12:09	13° x 57/20	1°38'58
minimum clong	11989 Dec 11 11:27	29 メ ・17 10	1 36 33	max. Earth dist.	11990 Nov 26 22:08	17° x '3421	1.31956 AU
max. Earth dist.		0 る 4° る 54'23	1.32989 AU	evening rise		17 x · 01 37 29° x 18'47	1.31930 AU
	11989 Dec 13 18:19		1.32989 AU	evening rise	11990 Dec 02 15:44	29 x ·1847	
evening rise	11989 Dec 18 17:50	15° る 12'23			11990 Dec 02 23:43		
	11989 Dec 26 13:35	0°≈		desc. node	11990 Dec 14 10:28	21° る 32'37	
desc. node	11989 Dec 27 13:29	1°≈45'20			11990 Dec 19 16:25	0° ≈	
	11990 Jan 15 15:36	0°) (2011 €	25025151	evening max el	11991 Jan 04 05:36	19°≈32'50	27°30'10
evening max el	11990 Jan 21 19:18	6°) (39′16	27°25'51	retrograde	11991 Jan 18 02:19	26°≈52'05	
retrograde	11990 Feb 04 11:01	14°) €04'20		evening set	11991 Jan 25 01:30	24° ≈ 32'46	
evening set	11990 Feb 11 07:04	11°) 34'10		min. Earth dist.	11991 Jan 28 19:15	21° ≈ 33'59	0.62246 AU
min. Earth dist.	11990 Feb 15 02:48	8° ₩ 08'36		inferior conj	11991 Jan 31 17:51	18° ≈ 48′20	
inferior conj	11990 Feb 17 15:49	5° ¥ 27'50		minimum elong	11991 Jan 31 22:08	18° ≈ 38'13	2°04'06
minimum elong	11990 Feb 17 17:26	5° ∺ 23'33	0°51'07	asc. node	11991 Feb 07 04:44	13° ≈ 58′25	
asc. node	11990 Feb 20 07:24	2°) (48'20		morning rise	11991 Feb 07 21:22	13° ≈ 42'41	
morning rise	11990 Feb 24 05:49	0° ∺ 05'18		direct	11991 Feb 10 02:59	13° ≈ 20′12	
	11990 Feb 24 11:08	30° ₹ ≈		morning max el	11991 Feb 16 21:07	16° ≈ 46′18	17°47'44
direct	11990 Feb 26 17:46	29° ≈ 33'41			11991 Feb 26 06:38	0° ∀	
	11990 Mar 01 00:19	0° ∀		morning set	11991 Mar 04 17:31	11° ∺ 15'54	
morning max el	11990 Mar 05 03:47	2° ¥ 53′01	17°50'16	desc. node	11991 Mar 12 11:22	24° ¥ 50'31	
morning set	11990 Mar 22 02:09	28° ∺ 21'12			11991 Mar 15 11:53	0° Y	
	11990 Mar 23 01:35	0° Y					
desc. node	11990 Mar 25 14:46	4° Ƴ 17'05		superior conj	11991 Mar 16 04:29	1° Υ 10'04	
				minimum elong	11991 Mar 16 01:45	0° Ƴ 58'30	0°27'48
superior conj	11990 Apr 04 09:21	20° Y 21′12		max. Earth dist.	11991 Mar 23 02:14	12° Y ′33'09	1.43813 AU
minimum elong	11990 Apr 04 02:02	19° Ƴ 51'44	1°08'56	evening rise	11991 Mar 30 17:54	24° Ƴ 39'05	
max. Earth dist.	11990 Apr 09 09:28	28° Y 20'03	1.45095 AU		11991 Apr 03 05:24	9° 8	
	11990 Apr 10 10:49	8° 0			11991 Apr 24 03:14	$\Pi^{\circ}0$	
evening rise	11990 Apr 20 03:55	15° 8 04'08		evening max el	11991 Apr 30 12:56	7° Ⅱ 27'37	21°21'34
	11990 Apr 30 00:37	Π °0		asc. node	11991 May 06 01:52	11° Ⅱ 46'33	
greatest brilliancy	11990 May 04 23:40	7° Ⅱ 18'42	-0.6m	retrograde	11991 May 09 08:24	12° Ⅱ 37'17	
evening max el	11990 May 17 14:58	23° Ⅱ 41′20	20°12'05	evening set	11991 May 13 17:26	10° Ⅱ 51′25	
asc. node	11990 May 19 04:38	25° Ⅱ 09'59		inferior conj	11991 May 18 23:48	4° Ⅲ 37'15	3°04'56
retrograde	11990 May 25 09:55	28° Ⅱ 09'56		minimum elong	11991 May 18 22:33	4° Ⅱ 41'36	3°04'04
evening set	11990 May 29 08:37	26° Ⅱ 40′13		min. Earth dist.	11991 May 19 06:29	4° Ⅱ 13'58	0.68604 AU
inferior conj	11990 Jun 03 15:41	20° Ⅱ 37′26	3°14'25		11991 May 22 12:43	30° ₹ 8	
minimum elong	11990 Jun 03 15:20	20° Ⅱ 38'34	3°13'37	morning rise	11991 May 24 03:28	28° 8 21'42	
min. Earth dist.	11990 Jun 04 11:53	19° Ⅱ 28'38	0.67949 AU	direct	11991 May 29 06:29	26° 8 07'37	
morning rise	11990 Jun 08 21:45	14° Ⅱ 17'10			11991 Jun 06 03:44	Π \circ 0	
direct	11990 Jun 14 13:35	11° Ⅱ 46′36		morning max el	11991 Jun 08 11:35	2° Ⅱ 11'14	23°03'14
desc. node	11990 Jun 21 15:35	14° ∏ 44'11		desc. node	11991 Jun 08 12:36	2° Ⅱ 13'48	
morning max el	11990 Jun 26 01:16	18° ∐ 40′05	24°32'57		11991 Jun 29 14:31	0ංම	
	11990 Jul 05 14:39	0 \circ \odot		morning set	11991 Jul 12 22:58	21° © 03'06	
	11990 Jul 25 17:29	$0^{\circ}\Omega$		max. Earth dist.	11991 Jul 17 06:45	28° 5 21'36	1.39872 AU
morning set	11990 Jul 31 18:45	10° Ω 16′31			11991 Jul 18 05:32	$0^{\circ}\Omega$	
max. Earth dist.	11990 Aug 04 09:06	16° Ω 40′53	1.37550 AU				
				superior conj	11991 Jul 25 00:59	12° Ω 09'16	-1°09'55
superior conj	11990 Aug 11 08:25	29° Ω 45′06		minimum elong	11991 Jul 25 05:57	12° £ 32′03	1°09'49
minimum elong	11990 Aug 11 10:49	29° Ω 56'42	0°35'48	asc. node	11991 Aug 02 01:11	27° Ω 13'55	
	11990 Aug 11 11:30	0° ™			11991 Aug 03 11:52	0° m y	
asc. node	11990 Aug 15 04:28	7° Mp 16′34		evening rise	11991 Aug 03 16:36	0° m ,22'41	
evening rise	11990 Aug 19 22:08	16° Mp 44'00		evening max el	11991 Aug 19 17:19	26° Mp 15'59	18°32'47
	11990 Aug 26 19:51	0∘ ত			11991 Aug 25 16:24	0∘ ⊽	
evening max el	11990 Sep 05 15:20	14° ≏ 06'38	19°17'24	retrograde	11991 Aug 27 14:45	0° ≙ 14'07	
retrograde	11990 Sep 14 22:24	18° ≏ 44'40		evening set	11991 Aug 29 14:58	29° m 59'30	
evening set	11990 Sep 16 18:41	18° ≏ 34'30			11991 Aug 29 14:07	30°₽,₩)	
desc. node	11990 Sep 17 12:56	18° ≏ 24'38		desc. node	11991 Sep 04 10:23	27° m 01'27	
inferior conj	11990 Sep 25 08:55	14° ≙ 25'14		inferior conj	11991 Sep 06 11:02	25° Mp 30'16	
minimum elong	11990 Sep 25 02:30	14° ≏ 35'49		minimum elong	11991 Sep 06 09:32	25° m 33'09	
min. Earth dist.	11990 Sep 28 00:03	12° ≏ 41'23	0.55828 AU	min. Earth dist.	11991 Sep 09 16:55	23° Mp 00'54	0.57607 AU
morning rise	11990 Oct 03 07:42	9° ჲ 50′26		morning rise	11991 Sep 14 00:39	20° m 17'56	
direct	11990 Oct 08 14:24	8° ≏ 46'49		direct	11991 Sep 20 00:12	18° M 47'48	
morning max el	11990 Oct 22 15:37	15° ≏ 53'30	25°28'56	morning max el	11991 Oct 04 07:41	26° Mp 20'15	26°53'38
	11990 Nov 03 00:47	0° M			11991 Oct 07 19:10	0∘ ত	
asc. node	11990 Nov 11 05:49	13°M54'12			11991 Oct 27 09:58	0° M	
morning set	11990 Nov 18 17:34	29°M01'55		asc. node	11991 Oct 29 02:36	3°M16'46	
	11990 Nov 19 04:23	0° ∡ °		morning set	11991 Nov 03 03:13	13°M36'00	

	1100131 10 00 12	200 m 42120	1022126	1	11002 0 + 14 22 10	220 0 50100	
superior conj	11991 Nov 10 00:13		1°32'26	asc. node	11992 Oct 14 23:18	22° ⊆ 58'00	
minimum elong	11991 Nov 09 22:45	28°M34'27	1°32'59	morning set	11992 Oct 17 09:10	27° ≏ 56'27	
max. Earth dist.	11991 Nov 10 06:19	29°M16'41	1.31410 AU		11992 Oct 18 08:34	0° M	
	11991 Nov 10 14:06	0° ⊼ ¹		max. Earth dist.	11992 Oct 23 15:09	11°MJ30'11	1.31364 AU
evening rise	11991 Nov 16 20:07	13° ∡ ′40′48					
	11991 Nov 25 01:02	0°ರ		superior conj	11992 Oct 24 11:39	13°M24'08	1°21'00
desc. node	11991 Dec 01 07:32	10° る 49'49		minimum elong	11992 Oct 24 09:34	13°ML12'35	1°21'16
	11991 Dec 15 16:54	0° ≈		evening rise	11992 Oct 31 04:41	28°MJ11'59	
evening max el	11991 Dec 17 10:34	1° ≈ 42'58	27°00'44	Č	11992 Nov 01 00:53	0° ∡ ¹	
retrograde	11991 Dec 31 08:52	8° ≈ 53'49		desc. node	11992 Nov 17 04:42	29° х 24'34	
evening set	11992 Jan 07 04:34	6°≈53'47		desc. node	11992 Nov 17 14:21	0° 궁	
min. Earth dist.	11992 Jan 11 00:55	4°≈13'25	0.60119 AU	evening max el	11992 Nov 28 07:33	13° ろ 00'21	25°57'28
				~		13 30021 20° る 02'59	23 37 28
inferior conj	11992 Jan 14 04:58	1°≈37'15		retrograde	11992 Dec 12 05:23		
minimum elong	11992 Jan 14 12:03	1° ≈ 22'38	3°22'24	evening set	11992 Dec 18 11:54	18° る 30'17	
	11992 Jan 16 05:29	30°Ŗる		min. Earth dist.	11992 Dec 22 20:17	15° る 54'24	0.58014 AU
morning rise	11992 Jan 21 22:22	26° පි 51'50		inferior conj	11992 Dec 25 21:34	13° ⋜ 43'48	
direct	11992 Jan 24 00:40	26° る 34'54		minimum elong	11992 Dec 26 05:58	13° る 28'46	4°38'11
asc. node	11992 Jan 25 02:01	26° る 39'21		morning rise	11993 Jan 03 02:42	9° る 20'51	
	11992 Jan 31 03:57	0°≈		direct	11993 Jan 05 06:09	9° ට 06'05	
morning max el	11992 Jan 31 11:09	0° ≈ 17'18	18°03'58	asc. node	11993 Jan 10 23:13	10° る 58'10	
morning set	11992 Feb 16 01:40	24° ≈ 57'16		morning max el	11993 Jan 13 18:01	13° る 14'37	18°40'37
Ç	11992 Feb 18 18:49	0°) €		Č	11993 Jan 25 02:06	0° ≈	
	11,5,2100 10 10.15	٠ , ,		morning set	11993 Jan 29 21:21	9° ≈ 08'50	
superior conj	11992 Feb 25 23:53	13° ¥ 07'13	0°10'26	morning set	11//3 Juli 2/ 21.21) ~00 Ju	
	11992 Feb 26 00:45	13° X 0713	0°10'37	aumorior comi	11002 Eak 07 15:26	26% 000116	0°42'49
minimum elong			0 1037	superior conj	11993 Feb 07 15:36	26°≈00'16	
behind sun begin	11992 Feb 25 18:52	12°) 44′54		minimum elong	11993 Feb 07 18:13	26°≈12'30	0°42'58
behind sun end	11992 Feb 26 06:37	13°) € 37'04			11993 Feb 09 19:16	0° ∀	
desc. node	11992 Feb 27 07:58	15° ¥ 28'50		desc. node	11993 Feb 13 04:35	6° ∺ 07'48	
max. Earth dist.	11992 Mar 04 14:52	26° ∺ 15′01	1.41996 AU	max. Earth dist.	11993 Feb 14 22:41	9° ∺ 13'22	1.39847 AU
	11992 Mar 06 21:14	0° Y		evening rise	11993 Feb 18 23:49	16°) €09'43	
evening rise	11992 Mar 09 22:32	4° Ƴ 57'09			11993 Feb 27 13:31	0 ° Υ	
	11992 Mar 26 11:51	8° 0			11993 Mar 21 04:35	9° 8	
evening max el	11992 Apr 12 06:08	21° 8 15'17	22°39'24	evening max el	11993 Mar 25 20:21	5° 8 04'28	24°00'07
asc. node	11992 Apr 21 23:09	27° 8 07'51		retrograde	11993 Apr 05 23:00	11° 8 36'31	
retrograde	11992 Apr 22 05:12	27° 8 08'09		asc. node	11993 Apr 08 20:29	10° 8 57'58	
evening set	11992 Apr 27 01:21	25° 8 07'08		evening set	11993 Apr 11 06:47	9° 8 22'09	
inferior conj	11992 May 02 09:10	18° 8 43'51	2°45'06	min. Earth dist.	11993 Apr 15 23:25	3° 8 55'47	0.68522 AU
minimum elong	11992 May 02 07:17	18° 8 50'26	2°44'08	inferior conj	11993 Apr 16 17:51	2° 8 53'07	2°15'24
min. Earth dist.	11992 May 02 07:17 11992 May 02 03:03	19° 8 05'10	0.68792 AU	minimum elong	11993 Apr 16 15:42	3° 8 00'29	
	•	_	0.08/92 AU	minimum clong	•	_	2 14 24
morning rise	11992 May 07 13:06	12° 8 34'20			11993 Apr 18 22:33	30° ₹ Υ	
direct	11992 May 12 02:52	10° 8 40'33		morning rise	11993 Apr 22 00:40	26° Y 50'45	
morning max el	11992 May 21 01:30	15° 8 52'06	21°36'31	direct	11993 Apr 26 01:32	25° Y 18′22	
desc. node	11992 May 25 09:31	20° 8 41'24		morning max el	11993 May 03 21:51	29° Ƴ 44'16	20°19'37
	11992 Jun 01 12:32	Π $^{\circ}0$			11993 May 04 04:09	$_{0\circ}$ 8	
	11992 Jun 21 15:05	0 \circ		desc. node	11993 May 12 06:19	9° 8 50'46	
morning set	11992 Jun 22 01:25	0°9540'54			11993 May 26 02:51	$\Pi^{\circ}0$	
max. Earth dist.	11992 Jun 28 09:00	10°954'01	1.42083 AU	morning set	11993 Jun 01 06:35	9° Ⅱ 24'26	
				max. Earth dist.	11993 Jun 10 17:42	24° Ⅱ 16'44	1.43914 AU
superior conj	11992 Jul 05 22:04	23°540'08	-1°41'32		11993 Jun 14 06:44	0ංම	
minimum elong	11992 Jul 06 04:49	24° © 09'27	1°41'35				
	11992 Jul 09 12:33	$0^{\circ}\Omega$		superior conj	11993 Jun 16 19:52	4°9510'23	-2°04'58
evening rise	11992 Jul 16 23:02	13° Ω 26'53		minimum elong	11993 Jun 17 01:23	4°933'10	
asc. node	11992 Jul 18 21:58	17° Ω 00'55		evening rise	11993 Jun 29 12:43	25°545'09	2 03 30
asc. node	11992 Jul 26 08:44	0° m)		evening rise	11993 Jul 01 23:24	0°Ω	
·			10000146	,			
evening max el	11992 Aug 02 02:59	9° Mp 01'22	18°08'46	asc. node	11993 Jul 05 18:50	6° Ω 32'57	1000441
retrograde	11992 Aug 09 01:46	12° m 33'40		evening max el	11993 Jul 16 16:29	22° Ω 13'30	18°04'11
evening set	11992 Aug 11 09:13	12° m 10'39		retrograde	11993 Jul 23 03:28	25° Ω 34'27	
inferior conj	11992 Aug 18 10:39	7° m 20'49	0°51'45	evening set	11993 Jul 25 18:58	24° Ω 59'48	
minimum elong	11992 Aug 18 12:15	7° m) 17'13	0°50'47	inferior conj	11993 Aug 01 04:38	19° Ω 51′05	1°57'18
desc. node	11992 Aug 21 07:48	4° Mp $45'20$		minimum elong	11993 Aug 01 07:16	19° Ω 44'19	1°55'56
min. Earth dist.	11992 Aug 21 17:35	4° m 24'13	0.59786 AU	min. Earth dist.	11993 Aug 04 03:27	16° Ω 49'43	0.62062 AU
morning rise	11992 Aug 25 12:05	1°Mp36'15		morning rise	11993 Aug 07 17:14	13° Ω 44'53	
-	11992 Aug 29 03:59	30° ₽ Ω		desc. node	11993 Aug 08 05:10	13° Ω 24'27	
direct	11992 Aug 31 23:14	29° Ω 37'50		direct	11993 Aug 14 09:35	11° Ω 22'15	
	11992 Sep 03 20:11	0° m)		morning max el	11993 Aug 28 13:19	19° Ω 24'06	27°57'23
morning max el	11992 Sep	7° m) 29'15	27°44'52		11993 Sep 06 13:41	0° m)	
morning mux Ci	11992 Scp 13 07:20 11992 Oct 02 08:36	0° ⊽	2, 1132		11993 Sep 06 13:41 11993 Sep 25 06:46	0∘ ত المار	
	11//2 000 02 00.30	· —			11775 Sep 25 00.40	· —	

morning set	11993 Oct 01 09:26	11° ≏ 58'10		morning max el	11994 Aug 10 22:55	1° Ω 57'12	27°33'05
asc. node	11993 Oct 01 09:20	12° ≏ 52'13		morning max ci	11994 Aug 31 19:34	0° m)	27 33 03
max. Earth dist.	11993 Oct 06 20:41	23° ₽ 31'40	1.31828 AU	morning set	11994 Sep 15 01:33	25° m/33'51	
					11994 Sep 17 06:40	0∘ ⊽	
superior conj	11993 Oct 08 21:12	27° Ω 56'49	1°04'07	asc. node	11994 Sep 18 16:38	2° ჲ 53'58	
minimum elong	11993 Oct 08 18:57	27° ≏ 44'28	1°04'04	max. Earth dist.	11994 Sep 19 19:10	5° ≏ 11'44	1.32818 AU
C	11993 Oct 09 19:35	0° M			•		
evening rise	11993 Oct 15 15:33	12°M47'18		superior conj	11994 Sep 23 02:50	12° ≙ 14'06	0°41'56
•	11993 Oct 24 04:56	0° ∡ ¹		minimum elong	11994 Sep 23 00:59	12° ≙ 04'08	0°41'40
desc. node	11993 Nov 04 01:57	17° ∡ °00'42		evening rise	11994 Sep 30 02:46	27° ≏ 20'48	
evening max el	11993 Nov 09 20:38	23° ∡ ³30′03	24°27'45		11994 Oct 01 08:48	0° M	
	11993 Nov 20 11:46	8°0			11994 Oct 18 23:48	0° ∡ ¹	
retrograde	11993 Nov 23 14:08	0° ろ 22'00		desc. node	11994 Oct 21 23:16	3° ∡ 15'31	
	11993 Nov 26 17:06	30°₽ ✓		evening max el	11994 Oct 22 07:06	3° х ³34′49	22°46'32
evening set	11993 Nov 28 19:33	29° ∡ °21'38		retrograde	11994 Nov 04 09:53	10° ∡ °05'49	
min. Earth dist.	11993 Dec 04 08:04	26° ₹ 31'46	0.56194 AU	evening set	11994 Nov 08 05:20	9° ∡ ³34'10	
inferior conj	11993 Dec 06 17:37	25° ∡ °01'50	-5°36'46	min. Earth dist.	11994 Nov 15 15:36	6° ∡ 12'13	0.54960 AU
minimum elong	11993 Dec 06 23:10	24° ₹ ′53′09	5°35'15	inferior conj	11994 Nov 16 19:08	5° х ³33′00	-5°49'55
morning rise	11993 Dec 15 04:53	20° ₹ 59'53		minimum elong	11994 Nov 16 16:47	5° ∡ 736′20	5°49'05
direct	11993 Dec 17 16:19	20° ∡ ¹43'29		morning rise	11994 Nov 25 05:43	1° ∡ ¹44'28	
morning max el	11993 Dec 27 13:49	25° ₹ 27'38	19°39'28	direct	11994 Nov 28 09:01	1° ∡ ′21'43	
asc. node	11993 Dec 28 20:21	26° ∡ ¹45'25		morning max el	11994 Dec 09 19:41	6° ∡ 747'56	21°01'12
	11993 Dec 31 13:11	0° ろ		asc. node	11994 Dec 15 17:23	13° ∡ ¹44'34	
morning set	11994 Jan 14 00:49	23° る 39'58			11994 Dec 25 06:06	0°る	
	11994 Jan 17 03:54	0° ≈		morning set	11994 Dec 29 09:14	8° る 22'22	
superior conj	11994 Jan 21 22:54	9° ≈ 35'57	1°07'41	superior conj	11995 Jan 05 17:33	23° る 42'15	1°25'00
minimum elong	11994 Jan 22 01:47	9° ≈ 50'10	1°08'00	minimum elong	11995 Jan 05 19:49	23° る 53'56	1°25'33
max. Earth dist.	11994 Jan 28 04:32	21° ≈ 31'23	1.37620 AU	g	11995 Jan 08 19:54	0° ≈	1 20 00
desc. node	11994 Jan 31 01:16	26°≈44'04		max. Earth dist.	11995 Jan 10 13:49	3° ≈ 27'43	1.35546 AU
evening rise	11994 Jan 31 21:56	28° ≈ 16'03		evening rise	11995 Jan 14 13:55	11° ≈ 07'52	
<i>8</i> 11	11994 Feb 01 21:32	0°) €		desc. node	11995 Jan 17 22:02	17° ≈ 13'44	
	11994 Feb 20 22:59	0° Υ			11995 Jan 25 10:18	0° ∀	
evening max el	11994 Mar 08 09:44	18° Ƴ 55'23	25°17'01		11995 Feb 16 07:30	0° Y	
retrograde	11994 Mar 20 12:37	25° Y 56'38		evening max el	11995 Feb 18 23:28	2° Y '44'02	26°22'45
evening set	11994 Mar 26 08:09	23° Y '31'52		retrograde	11995 Mar 03 21:03	10° Y ′02'14	
asc. node	11994 Mar 26 17:52	23° Y 10'38		evening set	11995 Mar 10 03:47	7° Y 30'56	
min. Earth dist.	11994 Mar 30 17:28	18° Y '40'43	0.67819 AU	asc. node	11995 Mar 13 15:15	4° Y 00'54	
inferior conj	11994 Mar 31 24:00	17° Y ′01'33	1°35'52	min. Earth dist.	11995 Mar 14 07:00	3° Y 14'27	0.66708 AU
minimum elong	11994 Mar 31 22:02	17° Y 07'56	1°35'02	inferior conj	11995 Mar 16 01:35	1° Y ′04'57	0°46'20
morning rise	11994 Apr 06 12:18	11° Y '07'39		minimum elong	11995 Mar 16 00:26	1° Y ′08'29	0°45'58
direct	11994 Apr 10 01:11	9° Y 55'45			11995 Mar 16 23:06	30°₽ ₩	
morning max el	11994 Apr 17 01:50	13° Ƴ 47'05	19°16'42	morning rise	11995 Mar 21 21:57	25° 米 21′20	
desc. node	11994 Apr 29 03:02	29° Ƴ 30'42		direct	11995 Mar 25 00:04	24° ∺ 27'35	
	11994 Apr 29 10:57	0°8		morning max el	11995 Mar 31 12:47	27° ¥ 57′01	18°29'52
greatest brilliancy	11994 Apr 29 21:42	0° 8 39'53	-0.7m		11995 Apr 02 10:46	0° Υ	
morning set	11994 May 11 07:59	18° 8 03'48		desc. node	11995 Apr 15 23:42	19° Ƴ 33'04	
79 of 18 o	11994 May 19 00:51	0°II	1 45150 477	morning set	11995 Apr 21 03:49	27° Y ′42'04	
max. Earth dist.	11994 May 24 08:22	8° Ⅱ 18'53	1.45172 AU		11995 Apr 22 14:47	0°8	
superior conj	11994 May 27 18:31	13° ∏ 43'21	-2°13'21	superior conj	11995 May 07 02:44	22° 8 44'26	-2°01'48
minimum elong	11994 May 27 18:04	13° Ⅱ 41'35		minimum elong	11995 May 06 19:10	22° 8 14'52	
mmmum viong	11994 Jun 06 21:03	0.2 12 T	2 1.00	max. Earth dist.	11995 May 07 03:23		1.45730 AU
evening rise	11994 Jun 11 04:40	7° 5 06'01			11995 May 11 18:09	0°II	
asc. node	11994 Jun 22 15:47	25°9543'43		evening rise	11995 May 22 20:22	17° Ⅲ 27'01	
	11994 Jun 25 13:31	$0^{\circ}\Omega$		<i>8</i>	11995 May 30 19:06	0ಂತಾ	
evening max el	11994 Jun 30 06:23	5° Ω 43'07	18°18'02	greatest brilliancy	11995 May 31 18:14	1° © 30'24	-0.8m
retrograde	11994 Jul 06 15:23	9° Ω 06'40		asc. node	11995 Jun 09 12:50	14° © 25'58	
evening set	11994 Jul 09 15:09	8° Ω 17'54		evening max el	11995 Jun 13 17:51	19° 5 23'11	18°49'33
inferior conj	11994 Jul 15 12:53	2° Ω 52'07	2°40'32	retrograde	11995 Jun 20 09:48	23° © 02'40	
minimum elong	11994 Jul 15 15:11	2° Ω 45'27	2°39'18	evening set	11995 Jun 23 18:05	21° © 58'18	
min. Earth dist.	11994 Jul 17 22:39	0° Ω 06'38	0.64189 AU	inferior conj	11995 Jun 29 07:35	16° © 16'52	3°05'10
	11994 Jul 18 01:02	30° ₹ 5		minimum elong	11995 Jun 29 08:58	16°9512'32	3°04'12
morning rise	11994 Jul 21 13:50	26° 5 34'17		min. Earth dist.	11995 Jul 01 02:32	14° 5 02'39	0.65989 AU
desc. node	11994 Jul 26 02:30	24° © 11'45		morning rise	11995 Jul 04 23:06	9° © 54'41	
direct	11994 Jul 28 05:00	23° © 56'28		direct	11995 Jul 11 07:47	7°912'27	
	11994 Aug 08 22:08	0 ° Ω		desc. node	11995 Jul 12 23:45	7° 5 22'16	

morning max el	11995 Jul 24 09:49 11995 Aug 05 16:51 11995 Aug 24 14:13 11995 Aug 29 06:26	14°\$58'30 0° Ω 0° ™ 8° ™ 36'07	26°38'29	min. Earth dist. morning rise direct	11996 Jun 12 09:10 11996 Jun 13 13:44 11996 Jun 17 18:15 11996 Jun 23 16:46	30°RII 28°II25'01 23°II36'59 21°II00'05	0.67365 AU
max. Earth dist.	11995 Sep 02 08:01 11995 Sep 05 13:19	16° TQ 29'16 22° TQ 59'27	1.34326 AU	desc. node morning max el	11996 Jun 28 20:54 11996 Jul 05 20:20 11996 Jul 07 11:39	22° II 35'07 28° II 16'53 0° ©	25°22'33
superior conj minimum elong behind sun begin behind sun end	11995 Sep 07 02:15 11995 Sep 07 01:28 11995 Sep 06 22:57 11995 Sep 07 03:59 11995 Sep 08 22:17	26° m 10'03 26° m 05'58 25° m 52'54 26° m 19'03 0° <u>Ω</u>	0°14'49 0°14'31	morning set max. Earth dist.	11996 Jul 29 10:26 11996 Aug 10 20:14 11996 Aug 14 11:19 11996 Aug 15 17:55	0°N 20°N55'32 27°N35'42 0°M	1.36278 AU
evening rise	11995 Sep 14 12:30 11995 Sep 23 21:19	າ1° ≏ 47'37 0° ™		superior conj minimum elong	11996 Aug 20 16:36 11996 Aug 20 17:39	9° ሙ 37'29 9° ሙ 42'40	-0°16'26 0°16'36
evening max el desc. node retrograde	11995 Oct 04 00:06 11995 Oct 08 20:39 11995 Oct 15 21:18	13°M50'58 17°M41'37 19°M45'08	21°10'58	asc. node evening rise	11996 Aug 22 10:02 11996 Aug 28 18:33 11996 Aug 30 17:39	13° Mp 04'59 26° Mp 01'59 0° Ω	
evening set inferior conj	11995 Oct 18 10:18 11995 Oct 27 11:03	19°M30'03 15°M35'31		evening max el desc. node	11996 Sep 15 06:13 11996 Sep 24 18:04	24° £ 47'25 29° £ 52'10	19°52'44
minimum elong min. Earth dist. morning rise	11995 Oct 27 01:48 11995 Oct 27 22:13 11995 Nov 04 17:54	15°M48'32 15°M19'48 11°M44'28	5°02'23 0.54564 AU	retrograde evening set inferior conj	11996 Sep 25 12:18 11996 Sep 27 10:08 11996 Oct 06 07:54	29° £ 53'47 29° £ 43'56 25° £ 42'52	-3°31'07
direct morning max el	11995 Nov 08 17:07 11995 Nov 21 12:42 11995 Dec 01 13:31	11° M 10'39 17° M 19'27 0° ✓	22°41'57	minimum elong min. Earth dist. morning rise	11996 Oct 05 22:55 11996 Oct 08 07:15 11996 Oct 14 10:16	25° £ 56'35 24° £ 30'31 21° £ 28'09	3°27'46 0.55108 AU
asc. node morning set	11995 Dec 02 14:22 11995 Dec 13 20:20 11995 Dec 17 01:04	1°ズ39'38 23°ズ09'25 0°る		direct morning max el	11996 Oct 19 05:25 11996 Nov 01 23:36 11996 Nov 04 12:23	20° ≏ 37'45	24°30'12
superior conj	11995 Dec 20 20:07	8° ට 09'14 8°ට15'48	1°35'13 1°35'59	asc. node	11996 Nov 18 11:17 11996 Nov 23 12:59	20°M17'11 0°×7'	
minimum elong max. Earth dist. evening rise	11995 Dec 20 21:21 11995 Dec 24 06:16 11995 Dec 28 20:07	15°පි21'31 24°පි35'22	1.33802 AU	morning set superior conj	11996 Nov 27 08:16 11996 Dec 04 03:57	7° х¹ 55'53 22° х¹ 49'17	1°38'54
desc. node	11995 Dec 31 15:47 11996 Jan 04 18:53 11996 Jan 18 23:01	0° ≈ 7° ≈ 31'56 0° ¥		minimum elong max. Earth dist.	11996 Dec 04 04:02 11996 Dec 06 06:24 11996 Dec 07 11:29	22° 🖈 49'45 27° 🖈 23'41 0° ජි	1°39'42 1.32490 AU
evening max el retrograde	11996 Feb 01 13:02 11996 Feb 14 23:23	16° ∺ 20'30 23° ∺ 45'00	27°09'53	evening rise desc. node	11996 Dec 07 11:29 11996 Dec 11 13:11 11996 Dec 21 15:50	8° ත්30'16 27° ත්33'06	
evening set min. Earth dist. inferior conj	11996 Feb 21 15:38 11996 Feb 25 13:44 11996 Feb 27 20:15	21°) 12'25 17°) 29'16 14°) 57'10	0.65223 AU -0°13'22	evening max el	11996 Dec 23 02:13 11997 Jan 14 00:59 11997 Jan 14 12:22	0°≈ 29°≈33'12 0°¥	27°31'28
minimum elong transit middle transit begin	11996 Feb 27 20:38 11996 Feb 27 20:38 11996 Feb 27 18:51	14° ¥ 56'07 14° ¥ 56'07 15° ¥ 01'07		retrograde evening set min. Earth dist.	11997 Jan 27 19:02 11997 Feb 03 17:17 11997 Feb 07 11:42	6° 光 56'21 4° 光 29'27 1° 光 16'24	0.63411 AU
transit end asc. node	11996 Feb 27 22:25 11996 Feb 28 12:38	14° ¥ 51'07 14° ¥ 11'39		inferior conj	11997 Feb 08 18:26 11997 Feb 10 05:15	30°R≈ 28°≈31'46	
morning rise direct morning max el	11996 Mar 05 03:11 11996 Mar 07 19:55 11996 Mar 14 04:33	9° ¥ 26'15 8° ¥ 47'31 12° ¥ 07'03	17°59'49	minimum elong asc. node morning rise	11997 Feb 10 07:57 11997 Feb 14 09:58 11997 Feb 17 00:53	28°≈25'00 24°≈44'37 23°≈16'18	1°21'06
morning set desc. node	11996 Mar 26 20:04 11996 Apr 01 04:09 11996 Apr 01 20:19	0° Υ 8° Υ 44'47 9° Υ 51'07		direct morning max el	11997 Feb 19 09:54 11997 Feb 25 22:18 11997 Mar 01 05:39	22°≈49'00 26°≈09'41 0°¥	17°47'01
	11996 Apr 14 07:30	0°8	1021150	morning set desc. node	11997 Mar 14 07:01 11997 Mar 19 16:57	21°¥04'00 0° Y 20'21 0° Y	
superior conj minimum elong max. Earth dist.	11996 Apr 15 13:31 11996 Apr 15 04:25 11996 Apr 18 23:41	1° 8 58'52 1° 8 22'52 7° 8 22'23		superior conj	11997 Mar 19 12:09 11997 Mar 26 18:46	12° Υ 08'36	-0°52'10
evening rise greatest brilliancy	11996 May 01 15:40 11996 May 03 13:58 11996 May 15 07:55	27° ႘ 02'00 0° Ц 17° Ц 48'08	-0.7m	minimum elong max. Earth dist.	11997 Mar 26 13:22 11997 Apr 01 18:12 11997 Apr 06 23:21	11° Y 46'25 21° Y 47'26 0° と	0°51'30 1.44625 AU
asc. node	11996 May 24 05:18 11996 May 26 09:59	0° ভ 2° ভ 29'26		evening rise	11997 Apr 11 02:57 11997 Apr 26 22:18	6° 8 25'03 0°Ⅱ	
evening max el retrograde evening set	11996 May 27 00:39 11996 Jun 03 07:41 11996 Jun 07 00:57	3°507'14 7°515'04 5°554'29	19°37'37	evening max el asc. node retrograde	11997 May 10 01:42 11997 May 13 07:10 11997 May 18 06:36	16° П 52'23 19° П 41'49 21° П 38'15	20°40'14
inferior conj minimum elong	11996 Jun 12 09:31 11996 Jun 12 09:47	29°П58'50 29°П57'55	3°14'44 3°13'54	evening set inferior conj	11997 May 22 09:34 11997 May 27 16:02	20°Щ01'30 13°Щ53'21	3°11'44

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minimum elong	11997 May 27 15:17	13° Ⅱ 55'56		inferior conj	11998 May 12 00:55	27° 8 56'44	
min. Earth dist.	11997 May 28 06:19	13° Ⅱ 04'02	0.68282 AU	minimum elong	11998 May 11 23:21	28° 8 02'10	
morning rise	11997 Jun 01 20:44	7° Ⅱ 34'45		min. Earth dist.	11998 May 12 02:07	27° 8 52'30	0.68734 AU
direct	11997 Jun 07 07:05	5° Ⅱ 10'48		morning rise	11998 May 17 04:20	21° 8 43'20	
desc. node	11997 Jun 15 17:58	9° Ⅱ 22'03		direct	11998 May 22 01:40	19° 8 37'30	
morning max el	11997 Jun 18 06:19	11° Ⅱ 44'28	23°54'58	morning max el	11998 May 31 17:43	25° 8 19'24	22°25'29
	11997 Jul 02 20:53	0 \circ \odot		desc. node	11998 Jun 02 14:56	27° 8 18'34	
	11997 Jul 22 05:14	0 $^{\circ}$ Ω			11998 Jun 04 23:08	Π $\circ 0$	
morning set	11997 Jul 23 14:08	2° Ω 19'46			11998 Jun 26 08:03	0ං වෙ	
max. Earth dist.	11997 Jul 27 08:55	8° Ω 54'40	1.38526 AU	morning set	11998 Jul 04 07:32	12° © 37'32	
				max. Earth dist.	11998 Jul 09 07:24	20° © 53'56	1.40835 AU
superior conj	11997 Aug 03 18:18	22° Ω 27'17	-0°50'17		11998 Jul 14 14:15	$0^{\circ}\Omega$	
minimum elong	11997 Aug 03 21:47	22° Ω 43'48	0°50'14				
	11997 Aug 07 16:34	0° m)		superior conj	11998 Jul 17 03:08	4° Ω 30′09	-1°23'56
asc. node	11997 Aug 09 06:45	3° Mp 06'23		minimum elong	11998 Jul 17 09:03	4° Ω 56'42	1°23'50
evening rise	11997 Aug 12 18:11	9° m 56'00		evening rise	11998 Jul 27 08:03	23° Ω 21′21	
	11997 Aug 23 21:23	0∘ 亚		asc. node	11998 Jul 27 03:31	23° ん 00′02	
evening max el	11997 Aug 29 01:51	6° £ 31'33	18°55'51		11998 Jul 30 21:31	0° m)	
retrograde	11997 Sep 06 17:43	10° ≏ 51'31		evening max el	11998 Aug 12 07:41	18° m 58'03	18°20'13
evening set	11997 Sep 08 14:45	10° ≏ 40'07		retrograde	11998 Aug 19 18:07	22° m 43'09	
desc. node	11997 Sep 11 15:30	9° £ 37'53		evening set	11998 Aug 21 21:11	22° m 25'28	
inferior conj	11997 Sep 16 21:42	6° £ 22'54	-1°39'10	inferior conj	11998 Aug 29 09:10	17° m 47'46	0°02'54
minimum elong	11997 Sep 16 17:28		1°37'29	minimum elong	11998 Aug 29 09:16	17° m) 47'35	0°02'36
min. Earth dist.	11997 Sep 19 20:59	4° £ 17'45	0.56505 AU	transit middle	11998 Aug 29 09:16	17° m) 47'35	0°02'36
morning rise	11997 Sep 24 16:58	1° £ 31'39		transit begin	11998 Aug 29 05:48	17° m 54'42	
direct	11997 Sep 30 07:06	0° £ 17'21		transit end	11998 Aug 29 12:43	17° m) 40'26	
morning max el	11997 Oct 14 12:19	7° £ 36'46	26°08'23	desc. node	11998 Aug 29 12:56	17° Mp 40'00	
morning man vi	11997 Oct 31 03:19	0°M	20 00 23	min. Earth dist.	11998 Sep 01 17:08	15° Mp 03'57	0.58500 AU
asc. node	11997 Nov 05 08:06	9°M25'39		morning rise	11998 Sep 05 17:50	12° m) 20'40	0.00000110
morning set	11997 Nov 11 19:12	22°M35'40		direct	11998 Sep 11 23:16	10° Mp 37'59	
morning set	11997 Nov 15 04:47	0° √		morning max el	11998 Sep 26 07:28	18° m) 19'58	27°19'54
	11777 1101 13 04.47	~		morning max er	11998 Oct 06 02:36	0∘ ⊽	27 17 54
superior conj	11997 Nov 18 14:40	7° ∡ ³34'21	1°36'28	asc. node	11998 Oct 23 04:52	28° ♀ 57'02	
minimum elong	11997 Nov 18 13:42	7°×7'29'00	1°37'10	use. Houe	11998 Oct 23 17:25	0°M	
max. Earth dist.	11997 Nov 18 13:42 11997 Nov 19 12:19	9° х 34'30	1.31659 AU	morning set	11998 Oct 23 17:23 11998 Oct 27 03:28	7° 11 L04'29	
evening rise	11997 Nov 25 14:06	22° х 44'04	1.51057 AO	morning set	11770 Oct 27 03.20	/ IIG0+2)	
evening rise	11997 Nov 29 03:28	22 メ 44 04 0°る		superior conj	11998 Nov 03 02:22	22° M _18'57	1°28'16
desc. node	11997 Nov 29 03:28 11997 Dec 08 12:51	17°る08'54		minimum elong	11998 Nov 03 02:22	22°M09'05	1°28'43
desc. Hode	11997 Dec 08 12:51 11997 Dec 16 23:53	0°≈		max. Earth dist.	11998 Nov 02 21:02		1.31329 AU
evening max el	11997 Dec 10 23:33 11997 Dec 27 09:06	0 ∞ 12°≈08'54	27021148	max. Earth dist.	11998 Nov 06 13:18	0° x ⁷	1.31329 AU
retrograde	11997 Dec 27 09:00 11998 Jan 10 07:01	12 ≈08 34 19°≈25'37	27 21 40			U X	
-				avaning rica		70.7110148	
avaning got				evening rise	11998 Nov 09 20:31	7° ⊀ 10'48	
evening set	11998 Jan 17 05:40	17° ≈ 13'11	0.61252 ATT	_	11998 Nov 09 20:31 11998 Nov 21 15:36	8°0	
min. Earth dist.	11998 Jan 17 05:40 11998 Jan 20 23:35	17°≈13'11 14°≈23'37	0.61353 AU	desc. node	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57	0°る 6°名09'39	26027144
min. Earth dist. inferior conj	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20	17°≈13'11 14°≈23'37 11°≈39'44	-2°39'44	_	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57	0°ප් 6°ප්09'39 23°ප්57'25	26°37'44
min. Earth dist. inferior conj minimum elong	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25		desc. node evening max el	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59	0°♂ 6°♂09'39 23°♂57'25 0°≈	26°37'44
min. Earth dist. inferior conj minimum elong morning rise	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37	-2°39'44	desc. node	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44	0°る 6°る09'39 23°る57'25 0°≈ 1°≈04'54	26°37'44
min. Earth dist. inferior conj minimum elong morning rise asc. node	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19	-2°39'44	desc. node evening max el retrograde	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01	0°ට 6°ට09'39 23°ට57'25 0°≈ 1°≈04'54 30°Ŗට	26°37'44
min. Earth dist. inferior conj minimum elong morning rise asc. node direct	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03	-2°39'44 2°36'58	desc. node evening max el retrograde evening set	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53	0° පි 6° පි09'39 23° පි57'25 0° ක 1° ≈04'54 30° අපි 29° පි15'55	
min. Earth dist. inferior conj minimum elong morning rise asc. node	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00	-2°39'44	desc. node evening max el retrograde evening set min. Earth dist.	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58	0° පි 6° පි09'39 23° පි57'25 0° ≈ 1° ≈04'54 30° R පි 29° පි15'55 26° පි39'04	0.59207 AU
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0°¥	-2°39'44 2°36'58	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57	0°පි 6°පි09'39 23°පි57'25 0°≈ 1°≈04'54 30°Rපි 29°පි15'55 26°පි39'04 24°පි11'52	0.59207 AU -3°58'54
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° € 4° € € € € € € € € € € € € € € € € € € €	-2°39'44 2°36'58	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55	0°♂ 6°♂09'39 23°♂57'25 0°≈ 1°≈04'54 30°₨ 29°♂15'55 26°♂39'04 24°♂11'52 23°♂56'22	0.59207 AU -3°58'54
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0°¥	-2°39'44 2°36'58	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48	0°♂ 6°♂09'39 23°♂57'25 0°≈ 1°≈04'54 30°₨♂ 29°♂15'55 26°♂39'04 24°♂11'52 23°♂56'22 19°♂35'37	0.59207 AU -3°58'54
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17	-2°39'44 2°36'58 17°52'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46	0°♂ 6°♂09'39 23°♂57'25 0°≈ 1°≈04'54 30°₨♂ 29°♂15'55 26°♂39'04 24°♂11'52 23°♂56'22 19°♂35'37 19°♂20'06	0.59207 AU -3°58'54
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32	-2°39'44 2°36'58 17°52'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29	0°♂6 6°♂09'39 23°♂57'25 0°≈ 1°≈04'54 30°₨♂ 29°♂15'55 26°♂39'04 24°♂11'52 23°♂56'22 19°♂35'37 19°♂20'06 19°♂52'46	0.59207 AU -3°58'54 3°55'36
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 08 00:31 11998 Mar 07 23:30	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩27'32	-2°39'44 2°36'58 17°52'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08	0°♂6 6°♂09'39 23°♂57'25 0°≈ 1°≈04'54 30°₨♂ 29°♂15'55 26°♂39'04 24°♂11'52 23°♂56'22 19°♂35'37 19°♂20'06 19°♂52'46 23°♂12'53	0.59207 AU -3°58'54
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 09 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 23:30 11998 Mar 07 17:19	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0°	-2°39'44 2°36'58 17°52'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30	0°පි 6°පි09'39 23°පි57'25 0°≈ 1°≈04'54 30°Rපි 29°පි15'55 26°පි39'04 24°පි11'52 23°පි56'22 19°පි35'37 19°පි20'06 19°පි52'46 23°ප12'53 0°≈	0.59207 AU -3°58'54 3°55'36
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 02 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 23:30 11998 Mar 07 17:19 11998 Mar 08 05:42	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49	-2°39'44 2°36'58 17°52'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 14 03:48 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46	0°පි 6°පි09'39 23°පි57'25 0°≈ 1°≈04'54 30°Rපි 29°පි15'55 26°පි39'04 24°පි11'52 23°පි56'22 19°පි35'37 19°පි20'06 19°පි52'46 23°ප12'53 0°≈ 18°≈16'04	0.59207 AU -3°58'54 3°55'36
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 02 14:43 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 23:30 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 11 20:58	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Υ	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30	0°පි 6°පි09'39 23°පි57'25 0°≈ 1°≈04'54 30°Rපි 29°පි15'55 26°පි39'04 24°පි11'52 23°පි56'22 19°පි35'37 19°පි20'06 19°පි52'46 23°ප12'53 0°≈	0.59207 AU -3°58'54 3°55'36
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 23:30 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 15 08:46	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Υ 5° Υ46'42	-2°39'44 2°36'58 17°52'16	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02	0°号 6°号09'39 23°号57'25 0°≈ 1°≈04'54 30°R号 29°号15'55 26°号39'04 24°号11'52 23°号56'22 19°号35'37 19°号20'06 19°号52'46 23°号12'53 0°≈ 18°≈16'04 0°光	0.59207 AU -3°58'54 3°55'36 18°16'52
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 24 06:51 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 15 08:46 11998 Mar 21 21:49	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Ψ 5° Ψ46'42 16° Ψ15'12	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02	0°る 6°る09'39 23°る57'25 0°≈ 1°≈04'54 30°Rる 29°る15'55 26°る39'04 24°る11'52 23°る56'22 19°る35'37 19°る20'06 19°る52'46 23°る12'53 0°≈ 18°≈16'04 0°升	0.59207 AU -3°58'54 3°55'36 18°16'52
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist.	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 15 08:46 11998 Mar 21 21:49 11998 Mar 30 21:31	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0°	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02	0°号 6°号09'39 23°号57'25 0°≈ 1°≈04'54 30°₨号 29°号15'55 26°号39'04 24°号11'52 23°号56'22 19°号35'37 19°号20'06 19°号52'46 23°号12'53 0°≈ 18°≈16'04 0°升	0.59207 AU -3°58'54 3°55'36 18°16'52
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 15 08:46 11998 Mar 21 21:49 11998 Mar 30 21:31 11998 Apr 22 06:11	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Ψ 5° ₩46'42 16° Ψ15'12 0° ₩ 0° Ш	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 18 05:03 11999 Feb 18 06:52 11999 Feb 18 06:52 11999 Feb 21 10:08	0°る 6°る09'39 23°る57'25 0°≈ 1°≈04'54 30°Rる 29°る15'55 26°る39'04 24°る11'52 23°る56'22 19°る35'37 19°る20'06 19°る52'46 23°る12'53 0°≈ 18°≈16'04 0°米 5°¥49'40 5°¥57'55 11°¥35'12	0.59207 AU -3°58'54 3°55'36 18°16'52 0°25'04 0°25'11
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 12 21:49 11998 Mar 30 21:31 11998 Apr 22 06:11 11998 Apr 22 06:11	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Ψ 5° ₩46'42 16° ₩15'12 0° ₩ 0° Ⅲ 0° Ⅲ38'48	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 06 12:55 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02 11999 Feb 18 05:03 11999 Feb 18 06:52 11999 Feb 21 10:08 11999 Feb 21 10:08	0°る 6°る09'39 23°る57'25 0°≈ 1°≈04'54 30°Rる 29°る15'55 26°る39'04 24°る11'52 23°る56'22 19°る35'37 19°る20'06 19°る52'46 23°る12'53 0°≈ 18°≈16'04 0°升 5°升49'40 5°升57'55 11°升35'12	0.59207 AU -3°58'54 3°55'36 18°16'52
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 12 21:49 11998 Mar 30 21:31 11998 Apr 22 06:11 11998 Apr 22 21:20 11998 Apr 30 04:24	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Ψ 5° ϒ46'42 16° ϒ15'12 0° ੴ 0° Ⅲ 0° Ⅲ38'48 5° Ⅲ48'20	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02 11999 Feb 18 06:52 11999 Feb 21 10:08 11999 Feb 25 18:53 11999 Mar 02 10:55	0°る 6°る09'39 23°る57'25 0°≈ 1°≈04'54 30°8る 29°る15'55 26°る39'04 24°る11'52 23°る56'22 19°る35'37 19°る20'06 19°る52'46 23°る12'53 0°≈ 18°≈16'04 0°升 5°升49'40 5°升57'55 11°升35'12 19°升09'24 26°升56'11	0.59207 AU -3°58'54 3°55'36 18°16'52 0°25'04 0°25'11
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 12 20:58 11998 Mar 21 21:49 11998 Mar 30 21:31 11998 Apr 22 06:11 11998 Apr 22 21:20 11998 Apr 30 04:24 11998 Mar 30 04:24 11998 Mar 30 04:24 11998 Mar 30 04:24	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Ψ 5° Ψ46'42 16° Ψ15'12 0° ₩ 0° Π 0° Π38'48 5° Π48'20 6° Π07'30	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02 11999 Feb 18 06:52 11999 Feb 21 10:08 11999 Feb 25 18:53 11999 Mar 02 10:55 11999 Mar 04 08:17	0°る。6°309'39 23°357'25 0°≈ 1°≈04'54 30°83 29°315'55 26°339'04 24°311'52 23°356'22 19°335'37 19°320'06 19°352'46 23°312'53 0°≈ 18°≈16'04 0°升 5°升49'40 5°升57'55 11°升35'12 19°升09'24 26°升56'11 0°℃	0.59207 AU -3°58'54 3°55'36 18°16'52 0°25'04 0°25'11
min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	11998 Jan 17 05:40 11998 Jan 20 23:35 11998 Jan 24 01:20 11998 Jan 31 10:53 11998 Feb 01 07:14 11998 Feb 02 14:31 11998 Feb 22 20:28 11998 Feb 25 06:11 11998 Mar 06 13:33 11998 Mar 07 17:19 11998 Mar 08 05:42 11998 Mar 08 05:42 11998 Mar 11 20:58 11998 Mar 12 21:49 11998 Mar 30 21:31 11998 Apr 22 06:11 11998 Apr 22 21:20 11998 Apr 30 04:24	17°≈13'11 14°≈23'37 11°≈39'44 11°≈27'25 6°≈42'37 6°≈30'19 6°≈23'03 9°≈55'00 0° ₩ 4° ₩20'20 20° ₩56'17 23° ₩27'32 23° ₩23'13 22° ₩56'34 23° ₩49'49 0° Ψ 5° ϒ46'42 16° ϒ15'12 0° ੴ 0° Ⅲ 0° Ⅲ38'48 5° Ⅲ48'20	-2°39'44 2°36'58 17°52'16 -0°11'16 0°10'56	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	11998 Nov 09 20:31 11998 Nov 21 15:36 11998 Nov 25 09:57 11998 Dec 09 10:57 11998 Dec 18 04:59 11998 Dec 23 09:44 11998 Dec 28 12:01 11998 Dec 30 00:53 11999 Jan 03 00:58 11999 Jan 06 04:57 11999 Jan 14 03:48 11999 Jan 16 05:46 11999 Jan 19 04:29 11999 Jan 24 02:08 11999 Jan 29 11:30 11999 Feb 08 19:46 11999 Feb 15 01:02 11999 Feb 18 06:52 11999 Feb 21 10:08 11999 Feb 25 18:53 11999 Mar 02 10:55	0°る 6°る09'39 23°る57'25 0°≈ 1°≈04'54 30°8る 29°る15'55 26°る39'04 24°る11'52 23°る56'22 19°る35'37 19°る20'06 19°る52'46 23°る12'53 0°≈ 18°≈16'04 0°升 5°升49'40 5°升57'55 11°升35'12 19°升09'24 26°升56'11	0.59207 AU -3°58'54 3°55'36 18°16'52 0°25'04 0°25'11 1.41111 AU

. 1	11000 A 16 00 11	200 927142		. 1	12000 M 20 16 12	50 0 03157	
retrograde	11999 Apr 16 00:11	20° 8 37'42		retrograde	12000 Mar 29 16:12	5° 8 03'57	
asc. node	11999 Apr 17 01:41	20° 8 32'25		asc. node	12000 Apr 02 23:02	3° 8 41'38	
evening set	11999 Apr 21 01:10	18° 8 31'00		evening set	12000 Apr 04 05:05	2° 8 44'47	
inferior conj	11999 Apr 26 10:12	12° 8 05'00	2°33'43		12000 Apr 06 20:33	30° Ŗ ♈	
minimum elong	11999 Apr 26 08:09	12° 8 12'06	2°32'43	min. Earth dist.	12000 Apr 08 18:29	27° Ƴ 33'37	0.68282 AU
min. Earth dist.	11999 Apr 25 22:53	12° 8 44'04	0.68731 AU	inferior conj	12000 Apr 09 18:04	26° Y 14'52	1°59'51
morning rise	11999 May 01 15:01	5° 8 58'14		minimum elong	12000 Apr 09 15:55	26° Y ′22'02	1°58'54
direct	11999 May 05 23:18	4° 8 13'17		morning rise	12000 Apr 15 02:54	20° Y 16′03	
morning max el	11999 May 14 09:53	9° 8 04'09	21°02'15	direct	12000 Apr 18 22:39	18° Ƴ 52'27	
desc. node	11999 May 20 11:47	16° 8 05'27		morning max el	12000 Apr 26 09:28	23° Y ′01'35	19°50'59
	11999 May 30 13:24	Π $^{\circ}0$			12000 May 02 08:17	0°8	
morning set	11999 Jun 13 23:31	21° Ⅱ 47'42		desc. node	12000 May 06 08:33	5° 8 29'15	
	11999 Jun 19 03:45	0 \circ \odot		greatest brilliancy	12000 May 10 00:48	10° 8 47'24	-0.6m
max. Earth dist.	11999 Jun 21 12:12	3° 5 48'07	1.42924 AU		12000 May 22 18:36	Π \circ 0	
				morning set	12000 May 23 00:19	0° Ⅱ 21'56	
superior conj	11999 Jun 28 14:37	15° © 35'52	-1°52'52	max. Earth dist.	12000 Jun 03 00:18	17° Ⅱ 32'06	1.44539 AU
minimum elong	11999 Jun 28 21:22	16° © 04'31	1°53'06				
	11999 Jul 06 21:34	$0^{\circ}\Omega$		superior conj	12000 Jun 08 02:09	25° Ⅱ 40′23	-2°10'44
evening rise	11999 Jul 10 07:54	6° Ω 06′56		minimum elong	12000 Jun 08 05:41	25° Ⅲ 54'42	2°11'27
asc. node	11999 Jul 14 00:19	12° Ω 41′07			12000 Jun 10 17:57	0 \circ \odot	
	11999 Jul 25 01:01	0° m)		evening rise	12000 Jun 21 12:53	18° 5 02'06	
evening max el	11999 Jul 26 19:29	1° m 55'58	18°04'33		12000 Jun 28 14:50	$0^{\circ}\Omega$	
retrograde	11999 Aug 02 11:45	5° m 21'19		asc. node	12000 Jun 29 21:13	2° Ω 04'54	
evening set	11999 Aug 04 22:44	4° m 53'33		evening max el	12000 Jul 09 09:30	15° Ω 16'16	18°07'47
inferior conj	11999 Aug 11 17:00	29° Ω 55'27	1°22'29	retrograde	12000 Jul 15 18:24	18° Ω 36'37	
minimum elong	11999 Aug 11 19:15	29° Ω 50'04	1°21'14	evening set	12000 Jul 18 13:27	17° Ω 56′04	
C	11999 Aug 11 15:06	30°RΩ		inferior conj	12000 Jul 24 17:32	12° Ω 39'33	2°18'08
min. Earth dist.	11999 Aug 14 21:21	26° Ω 54'15	0.60764 AU	minimum elong	12000 Jul 24 20:09	12° Ω 32'28	2°16'48
desc. node	11999 Aug 16 10:20	25° Ω 34'10		min. Earth dist.	12000 Jul 27 11:02	9° Ω 43'00	0.63002 AU
morning rise	11999 Aug 18 12:59	24°Ω00'44		morning rise	12000 Jul 31 00:58	6°Ω27'20	
direct	11999 Aug 25 03:20	21° Ω 51'09		desc. node	12000 Aug 02 07:42	5° Ω 01'54	
morning max el	11999 Sep 08 09:47	29° Ω 47'23	27°54'56	direct	12000 Aug 06 17:27	3° Ω 57'23	
	11999 Sep 08 14:51	0° m)	_, _, _,	morning max el	12000 Aug 20 17:41	11° Ω 59'34	27°51'18
	11999 Sep 30 03:40	0∘ ⊽		morning man er	12000 Sep 04 00:45	0° m	2, 5110
asc. node	11999 Oct 10 01:34	° — 18° ≏ 44'15			12000 Sep 21 14:11	0∘ ⊽	
morning set	11999 Oct 11 07:15	21° ⊆ 17'14		morning set	12000 Sep 24 04:22	ა _ 5° ჲ 08'16	
morning sec	11999 Oct 15 09:23	0°ML		asc. node	12000 Sep 21 01:22 12000 Sep 25 22:15	8° ≏ 42'00	
max. Earth dist.	11999 Oct 17 04:56	3°M.58'41	1.31499 AU	max. Earth dist.	12000 Sep 29 08:05	15° ≏ 52'28	1.32186 AU
superior conj	11999 Oct 18 13:14	6°M57'12	1°14'30	superior conj	12000 Oct 01 21:21	21° ≏ 23'33	0°55'20
minimum elong	11999 Oct 18 11:01	6°M44'58	1°14'38	minimum elong	12000 Oct 01 19:11	21° ₽ 11'47	0°55'10
evening rise	11999 Oct 25 06:17	21°ML44'30			12000 Oct 05 19:40	0° M .	
Č	11999 Oct 29 04:50	0° ∡ ¹		evening rise	12000 Oct 08 17:32	6° M ₊19'30	
desc. node	11999 Nov 12 07:09	24° ∡ ¹21'53		Ü	12000 Oct 21 01:12	0° ∡ ¹	
	11999 Nov 16 15:05	0°ರ		desc. node	12000 Oct 29 04:27	11° ∡ 26′24	
evening max el	11999 Nov 21 04:38	4° ප 54'14	25°21'55	evening max el	12000 Nov 01 15:32	15° ∡ '08'41	23°45'02
retrograde	11999 Dec 05 01:09	11° ප 52'02		retrograde	12000 Nov 15 04:03	21° ₹ '53'33	
evening set	11999 Dec 10 22:31	10°₹33'05		evening set	12000 Nov 19 19:55	21° ∡ ′06′10	
min. Earth dist.	11999 Dec 15 16:46	7° る 53'39	0.57191 AU	min. Earth dist.	12000 Nov 26 01:54	18° ∡ 05′03	0.55578 AU
inferior conj	11999 Dec 18 13:00	5° る 59'03	-5°08'27	inferior conj	12000 Nov 28 00:30	16° ∡ 55'41	-5°48'51
minimum elong	11999 Dec 18 20:52	5°₹45'48	5°05'59	minimum elong	12000 Nov 28 03:08	16° ∡ 751'45	5°47'55
morning rise	11999 Dec 26 21:33	1° る 45'09		morning rise	12000 Dec 06 12:14	13° ∡ '01'17	
direct	11999 Dec 29 03:36	1° ට 30'04		direct	12000 Dec 09 05:44	12° ∡ ¹42'44	
asc. node	12000 Jan 06 01:39	4° ට 51'14		morning max el	12000 Dec 19 18:45	17° х 43′42	20°11'37
morning max el	12000 Jan 07 04:42	5°₹52'44	19°02'47	asc. node	12000 Dec 22 22:46	21° x 11'07	
	12000 Jan 22 11:06	0° ≈			12000 Dec 28 23:26	0°ਰ	
morning set	12000 Jan 23 19:14	2° ≈ 38'03		morning set	12001 Jan 07 01:09	17° る 15'18	
					12001 Jan 13 06:18	0° ≈	
superior conj	12000 Feb 01 04:00	19° ≈ 02'57	0°54'18				
minimum elong	12000 Feb 01 04:50	19°≈16'42	0°54'29	superior conj	12001 Jan 14 16:38	2° ≈ 53'28	1°15'55
	12000 Feb 07 01:00	0° \	× = :=/	minimum elong	12001 Jan 14 19:20	3°≈07'03	1°16'20
max. Earth dist.	12000 Feb 08 01:56	1° ¥ 52'10	1.38901 AU	max. Earth dist.	12001 Jan 20 08:57	14°≈00'01	1.36706 AU
desc. node	12000 Feb 08 06:47	2°\(\frac{1}{32}\)10	1.50/01/10	evening rise	12001 Jan 24 03:32	20°≈59'59	1.50700 AU
evening rise	12000 Feb 11 21:24	8° H 33'11		desc. node	12001 Jan 24 03:32 12001 Jan 25 03:30	20 ≈39 39 22°≈47'58	
	12000 Feb 25 05:58	0°Υ		2000. 11040	12001 Jan 29 06:29	0° ∀	
evening max el	12000 Mar 18 02:59	28° Υ 18'55	24°33'42		12001 Jan 29 00:29 12001 Feb 18 04:42	0°Υ	
Croning max of	12000 Mar 18 02:39 12000 Mar 19 21:44	0° 8	21 33 72	evening max el	12001 Feb 18 04:42 12001 Feb 28 16:20	12° Υ '09'21	25°46'37
	12000 Mill 17 21.77	v O		Stomme may of	.2001100 20 10.20	12 1 07 21	25 1051

retrograde	12001 Mar 13 03:40	19° Ƴ 19'13			12002 Jan 22 02:53	0°) {	
evening set	12001 Mar 19 04:16	16° Υ 50'48		evening max el	12002 Jah 22 02:33 12002 Feb 11 05:52		26°45'24
asc. node	12001 Mar 19 04:10 12001 Mar 20 20:26	15° Υ 16'02		evening max er	12002 Feb 11 03:32 12002 Feb 16 02:07	25 γ (33 20	20 43 24
min. Earth dist.	12001 Mar 20 20:20 12001 Mar 23 10:46	13°γ10'02 12°γ'14'48	0.67403 AU	retrograde	12002 Feb 24 09:50	3°Υ16'20	
inferior conj	12001 Mar 24 22:31	10° Y 21'40	1°16'05	evening set	12002 Mar 02 20:52	0° Υ 43'31	
minimum elong	12001 Mar 24 22:31 12001 Mar 24 20:49	10° Υ 27'04	1°15'25	evening set	12002 Mar 02 20:32 12002 Mar 03 17:24	30°R) €	
morning rise	12001 Mar 30 13:58	4° Υ 32'10	1 13 23	min. Earth dist.	12002 Mar 06 21:39	26°) 41'31	0.66121 AU
direct	12001 Apr 02 22:06	3°Υ28'25		asc. node	12002 Mar 07 17:49	25°) 42'42	0.00121110
morning max el	12001 Apr 09 16:43	7° Υ 08'41	18°54'46	inferior conj	12002 Mar 08 21:28	24°) 20'59	0°22'15
desc. node	12001 Apr 23 05:14	25° Y 19'32		minimum elong	12002 Mar 08 20:52	24°) 22'45	0°22'11
greatest brilliancy	12001 Apr 23 08:41	25° Ƴ 32'38	-0.8m	morning rise	12002 Mar 14 22:04	18°) 42'37	
,	12001 Apr 26 06:31	0°B		direct	12002 Mar 17 19:53	17° ¥ 55'51	
morning set	12001 May 02 07:19	9° 8 20'31		morning max el	12002 Mar 24 06:05	21° ¥ 19'54	18°14'56
C	12001 May 15 13:41	$\Pi^{\circ}0$		· ·	12002 Mar 31 03:20	0° Y	
max. Earth dist.	12001 May 16 17:15	1° Ⅱ 47'55	1.45501 AU	desc. node	12002 Apr 10 01:53	15° Y ′29′12	
	•			morning set	12002 Apr 12 14:51	19° Ƴ 33'35	
superior conj	12001 May 18 16:56	4° Ⅱ 54'55	-2°10'58	•	12002 Apr 19 03:46	0°8	
minimum elong	12001 May 18 13:09	4° Ⅱ 40′04	2°11'34		•		
evening rise	12001 Jun 02 18:37	28° Ⅱ 57'37		superior conj	12002 Apr 27 23:57	13° 8 55'55	-1°50'59
-	12001 Jun 03 10:01	0°ಅ		minimum elong	12002 Apr 27 14:52	13° 8 20'22	1°50'46
asc. node	12001 Jun 16 18:13	21°504'53		max. Earth dist.	12002 Apr 29 12:35	16° 8 19'10	1.45737 AU
evening max el	12001 Jun 22 22:36	28°951'00	18°29'17		12002 May 08 07:09	Π°	
	12001 Jun 24 04:34	$0^{\circ}\Omega$		evening rise	12002 May 14 00:34	8° Ⅱ 55'35	
retrograde	12001 Jun 29 09:40	2° £ 20′10		greatest brilliancy	12002 May 25 03:49	26° Ⅱ 10'58	-0.8m
evening set	12001 Jul 02 12:55	1° Ω 24'58			12002 May 27 16:50	0 \circ \odot	
	12001 Jul 04 10:56	30° ℝ ∽		asc. node	12002 Jun 03 15:18	9° © 32'05	
inferior conj	12001 Jul 08 06:42	25° © 52'08	2°53'01	evening max el	12002 Jun 06 08:14	12° © 33'13	19°08'07
minimum elong	12001 Jul 08 08:40	25°5646'15	2°51'55	retrograde	12002 Jun 13 05:53	16° 5 23'40	
min. Earth dist.	12001 Jul 10 10:11	23°518'27	0.64997 AU	evening set	12002 Jun 16 17:48	15° © 12'39	
morning rise	12001 Jul 14 03:18	19° 5 31'26		inferior conj	12002 Jun 22 04:51	9° 5 25'07	3°10'55
desc. node	12001 Jul 20 04:59	16° © 51'19		minimum elong	12002 Jun 22 05:45	9° 5 22'10	3°10'00
direct	12001 Jul 20 16:04	16° © 50'34		min. Earth dist.	12002 Jun 23 17:33	7° 5 26'57	0.66626 AU
morning max el	12001 Aug 03 04:24	24°9547'26	27°13'07	morning rise	12002 Jun 27 17:07	3° © 02'24	
	12001 Aug 07 21:43	$0^{\circ}\Omega$		direct	12002 Jul 03 21:49	0° © 21'05	
	12001 Aug 28 11:34	0° m		desc. node	12002 Jul 07 02:11	0° © 57'09	
morning set	12001 Sep 07 16:10	18° m y 31'28		morning max el	12002 Jul 16 15:15	7° 9 57'24	26°08'09
max. Earth dist.	12001 Sep 12 02:52	27° m 23'41	1.33395 AU		12002 Aug 02 20:01	0 $^{\circ}$ Ω	
asc. node	12001 Sep 12 18:56	28° Mp 46'13			12002 Aug 20 22:27	0° m)	
	12001 Sep 13 09:13	0∘ ⊽		morning set	12002 Aug 21 15:09	1° m)17'05	
				max. Earth dist.	12002 Aug 25 11:07	8° m 33'01	1.35103 AU
superior conj	12001 Sep 16 00:40	5° Ω 32'49	0°31'00				
minimum elong	12001 Sep 15 23:11	5° £ 24'55	0°30'41	superior conj	12002 Aug 30 20:34	19° m 17'36	0°02'00
evening rise	12001 Sep 23 04:25	20° ≙ 51'11		minimum elong	12002 Aug 30 20:29	19° m 17'06	0°01'44
	12001 Sep 27 14:46	0°M		behind sun begin	12002 Aug 30 14:29	18° m) 46'34	
evening max el	12001 Oct 14 03:26	25°M13'20	22°04'18	behind sun end	12002 Aug 31 02:28	19° m 47'42	
desc. node	12001 Oct 16 01:49	26°M58'53		asc. node	12002 Aug 30 15:36	18° m 52'16	
. 1	12001 Oct 20 14:26	0° ⊀ ⁷			12002 Sep 05 00:39	0∘ ⊽	
retrograde	12001 Oct 26 19:46	1° х 31'32 1° х 08'38		evening rise	12002 Sep 07 12:49	5° Ω 13'12 0° ጤ	
evening set	12001 Oct 30 00:44				12002 Sep 21 06:08		20025112
inferior conj	12001 Nov 02 10:11 12001 Nov 07 20:23	30° R ጤ 27° ጤ 11'26	5020107	evening max el desc. node	12002 Sep 26 01:37 12002 Oct 02 23:14	5°M44'38 10°M30'05	20°35'13
minimum elong	12001 Nov 07 20:23 12001 Nov 07 14:28	27 IL11 20 27°M 19'45	5°36'46	retrograde	12002 Oct 02 23:14 12002 Oct 07 06:56	10 IIL3003	
min. Earth dist.	12001 Nov 07 14.28 12001 Nov 07 08:43	27 IL1943 27°M27'49	0.54670 AU	evening set	12002 Oct 07 00:30	11°ML07'14	
		27 11G27 49 23°M24'23	0.54070 AU	•	12002 Oct 09 11:10 12002 Oct 18 12:34	7°M11'50	4020121
morning rise direct	12001 Nov 16 05:30 12001 Nov 19 16:44	23 11624 23 22°M57'46		inferior conj minimum elong	12002 Oct 18 12.34 12002 Oct 18 02:32	7°M26'19	4°26'18
morning max el		28°M42'31	21°42'19	min. Earth dist.		6°M31'41	0.54680 AU
morning max ei	12001 Dec 01 18:51 12001 Dec 03 02:09	28°111642′31 0° √	∠1 1 ∠17	min. Earth dist.	12002 Oct 19 16:22 12002 Oct 26 17:34	3°M12'38	0.54000 AU
asc. node	12001 Dec 03 02:09 12001 Dec 09 19:48	8° ∡ ¹35'56		direct	12002 Oct 20 17:34 12002 Oct 31 01:22	2°M32'24	
asc. node	12001 Dec 09 19:48 12001 Dec 21 11:52	0° 궁		morning max el	12002 Oct 31 01:22 12002 Nov 13 08:13	8°M59'20	23°28'01
morning set	12001 Dec 21 11:32 12001 Dec 22 10:57	0 3 2° ろ 00'28		asc. node	12002 Nov 13 08.13 12002 Nov 26 16:45	26°M50'16	23 2001
morning set	12001 DCC 22 10.3/	2 000 28		asc. nouc	12002 Nov 28 11:54	20 IIL30 10 0° ⊼ ¹	
superior conj	12001 Dec 29 15:04	17°る10'02	1°30'09	morning set	12002 Nov 28 11.34 12002 Dec 06 22:35	0 x . 16° ∡ 147'17	
minimum elong	12001 Dec 29 15:55	17 3 10 02	1°30'49	morning set	12002 Dec 00 22:33 12002 Dec 13 01:04	10 メ・4/1/ 0°る	
max. Earth dist.	12001 Dec 29 10:33 12002 Jan 02 20:38	17 3 1940 25° る 51'42	1.34751 AU		12002 200 13 01.04	ÿ O	
man. Durin dist.	12002 Jan 02 20:38 12002 Jan 04 22:40	23 O 31 42 0° ≈	2.51,51710	superior conj	12002 Dec 13 20:08	1°る43'09	1°37'32
evening rise	12002 Jan 07 02:00	0 ~ 4° ≈ 08'08		minimum elong	12002 Dec 13 20:53	1°る47'11	1°38'20
desc. node	12002 Jan 07 02:00 12002 Jan 12 00:19	13°≈13'28		max. Earth dist.	12002 Dec 16 16:09	7°る46'43	1.33183 AU
2000. 11000	-2002 3411 12 00.17	15 . 4.15 20			12002 200 10 10.07	, 🔾 10 43	1.55105710

	12002 D 21 12-11	17° る 48'09			12003 Dec 04 12:21	0°₹	
evening rise	12002 Dec 21 13:11					1°る51'50	
JJ.	12002 Dec 27 23:10	0°≈ 2°≈ •25!12		evening rise	12003 Dec 05 09:53		
desc. node	12002 Dec 29 21:14	3°≈25'13		desc. node	12003 Dec 16 18:13	23° る 16'37	
	12003 Jan 16 10:35	0° ∀			12003 Dec 20 20:32	0° ≈	
evening max el	12003 Jan 24 19:03	9° ∺ 21'41	27°22'42	evening max el	12004 Jan 07 05:54	22° ≈ 20'48	27°31'38
retrograde	12003 Feb 07 09:37	16°) 46′50		retrograde	12004 Jan 21 01:56	29° ≈ 40'56	
evening set	12003 Feb 14 04:44	14° 米 15′56		evening set	12004 Jan 28 01:06	27° ≈ 19′29	
min. Earth dist.	12003 Feb 18 01:04	10° ∺ 45'52		min. Earth dist.	12004 Jan 31 18:56	24° ≈ 17'15	0.62551 AU
inferior conj	12003 Feb 20 12:24	8°) €07'03	-0°41'38	inferior conj	12004 Feb 03 16:19	21° ≈ 31'30	-1°54'41
minimum elong	12003 Feb 20 13:40	8°) €03'39	0°40'44	minimum elong	12004 Feb 03 20:10	21° ≈ 22'15	1°52'34
asc. node	12003 Feb 22 15:10	5° ¥ 55'36		asc. node	12004 Feb 09 12:29	16° ≈ 54'26	
morning rise	12003 Feb 27 00:29	2°) 42′08		morning rise	12004 Feb 10 17:45	16° ≈ 23'11	
direct	12003 Mar 01 13:36	2°) €08'48		direct	12004 Feb 13 00:13	15° ≈ 59'31	
morning max el	12003 Mar 07 23:02	5° ¥ 27'55	17°52'11	morning max el	12004 Feb 19 16:32	19° ≈ 23'50	17°47'00
C	12003 Mar 24 10:06	$0^{\circ}\mathbf{Y}$		Ü	12004 Feb 27 12:25	0°) €	
morning set	12003 Mar 25 03:13	1° Y 11'39		morning set	12004 Mar 06 15:32	13°) 57'59	
desc. node	12003 Mar 27 22:30	5° Y ′52'54		desc. node	12004 Mar 13 19:06	26° ¥ 25'32	
acco. noac	12005 1/161 2/ 22:50	0 ,020.		acoc. noac	12004 Mar 15 21:23	0°Υ	
superior conj	12003 Apr 07 17:15	23° Y '31'02	1015145		12004 Mai 13 21.23	0 1	
	•	23° 15102 22° 15102		gumariar aoni	12004 Mar 18 08:42	4° Y ′09'42	0024122
minimum elong	12003 Apr 07 09:21		1 13 02	superior conj		4 1 09 42 3°Υ55'22	
	12003 Apr 11 19:05	0°8		minimum elong	12004 Mar 18 05:16		
max. Earth dist.	12003 Apr 12 08:13	0° 8 51'51	1.45234 AU	max. Earth dist.	12004 Mar 25 01:43	15° Y ′09′28	1.44042 AU
evening rise	12003 Apr 23 14:34	18° 8 21'08		evening rise	12004 Apr 02 03:23	27° Y ′52'13	
	12003 May 01 06:24	Π °0			12004 Apr 03 12:34	9° 8	
greatest brilliancy	12003 May 08 14:41	10° Ⅱ 54′02	-0.6m		12004 Apr 24 02:22	Π $^{\circ}0$	
evening max el	12003 May 20 12:45	26° Ⅱ 18'58	20°02'42	evening max el	12004 May 02 11:30	10° Ⅱ 05'16	21°10'28
asc. node	12003 May 21 12:27	27° Ⅲ 16′09		asc. node	12004 May 07 09:40	14° Ⅲ 02'57	
	12003 May 25 08:14	0 \circ \circ		retrograde	12004 May 11 02:59	15° Ⅱ 08'29	
retrograde	12003 May 28 04:21	0°9341'43		evening set	12004 May 15 10:27	13° Ⅲ 24'53	
C	12003 May 30 21:00	30°R Ⅱ		inferior conj	12004 May 20 16:47	7° Ⅱ 12'11	3°07'03
evening set	12003 Jun 01 01:39	29° Ⅱ 14'19		minimum elong	12004 May 20 15:39	7° Ⅱ 16'05	3°06'12
inferior conj	12003 Jun 06 09:01		3°14'52	min. Earth dist.	12004 May 21 01:23	6° ∏ 42'16	0.68540 AU
minimum elong	12003 Jun 06 08:50	23° I I14'02	3°14'03	morning rise	12004 May 25 20:38	0° П 55'51	0.003 10 710
min. Earth dist.	12003 Jun 07 07:17	21° I I58'03	0.67818 AU	morning risc	12004 May 27 00:58	30°R 8	
		21 П 3803 16° П 52'45	0.07818 AU	Ji 4	•		
morning rise	12003 Jun 11 15:43			direct	12004 May 31 01:34	28° 8 39'11	
direct	12003 Jun 17 09:22	14° Ⅱ 20'17			12004 Jun 04 12:16	0°П	
desc. node	12003 Jun 23 23:17	16° Ⅲ 53'45		desc. node	12004 Jun 09 20:17	4° Ⅱ 13'04	
morning max el	12003 Jun 29 01:13	21° Ⅱ 19'56	24°46'00	morning max el	12004 Jun 10 11:22	4° Ⅱ 50'30	23°16'34
	12003 Jul 06 13:17	0			12004 Jun 29 19:46	0	
	12003 Jul 27 01:31	$0 {\circ} \Omega$		morning set	12004 Jul 15 04:56	24° © 11'23	
morning set	12003 Aug 03 21:01	13° Ω 14′29			12004 Jul 18 15:06	$0^{\circ}\Omega$	
max. Earth dist.	12003 Aug 07 10:55	19° Ω 39'56	1.37217 AU	max. Earth dist.	12004 Jul 19 08:31	1° Ω 15′12	1.39528 AU
	12003 Aug 12 22:57	o∘ m p					
	Č	•		superior conj	12004 Jul 27 01:05	15° Ω 01'53	-1°04'48
superior conj	12003 Aug 14 06:00	2° m/30'32	-0°30'37	minimum elong	12004 Jul 27 05:40		
minimum elong	12003 Aug 14 08:02	2° m/40'23		asc. node	12004 Aug 03 09:03	28° Ω 55'41	
asc. node	12003 Aug 17 12:19	8° m) 56'45	0 30 41	ase. node	12004 Aug 03 03:03	0° m)	
evening rise	12003 Aug 17 12:19 12003 Aug 22 16:27	19° Mp 19'47		evening rise	12004 Aug 05 22:24 12004 Aug 05 12:22	3°My03'06	
evening rise	•			•	-		18°38'04
	12003 Aug 28 03:31	0∘ ⊽	10005151	evening max el	12004 Aug 21 14:15	29° Mp 05'03	18-38-04
evening max el	12003 Sep 08 13:50	17° Ω 01'49	19°25'51		12004 Aug 22 13:41	0∘ ⊽	
retrograde	12003 Sep 18 02:34	21° Ω 46'50		retrograde	12004 Aug 29 16:11	3° ≏ 08'35	
evening set	12003 Sep 19 22:59	21° △ 36′53		evening set	12004 Aug 31 15:24	2° ≏ 54'56	
desc. node	12003 Sep 19 20:38	21° △ 37'53		desc. node	12004 Sep 05 18:02	0° ჲ 31'24	
inferior conj	12003 Sep 28 15:27	17° ≏ 29'57	-2°43'46		12004 Sep 06 12:29	30°R, Mp	
minimum elong	12003 Sep 28 08:17	17° ≏ 41'32	2°40'55	inferior conj	12004 Sep 08 14:19	28° m 28'45	-0°53'30
min. Earth dist.	12003 Oct 01 02:57	15° ≏ 54'06	0.55620 AU	minimum elong	12004 Sep 08 12:10	28° m 32'50	0°52'45
morning rise	12003 Oct 06 15:17	13° ≏ 00'46		min. Earth dist.	12004 Sep 11 18:54	26°M 05'12	0.57303 AU
direct	12003 Oct 11 19:09	12° ≙ 00'45		morning rise	12004 Sep 16 05:30	23° m/21'46	
morning max el	12003 Oct 25 18:42	19° ≏ 02'27	25°14'16	direct	12004 Sep 22 02:40	21° m 55'57	
<i>3</i>	12003 Nov 03 23:42	0°M	-	morning max el	12004 Oct 06 09:52	29° m) 25'12	26°42'58
asc. node	12003 Nov 13 13:36	15°M42'05			12004 Oct 07 00:04	0° ⊽	
450. 110de	12003 Nov 13 13:30 12003 Nov 20 17:10	0° √			12004 Oct 07 00:04 12004 Oct 27 19:04	0° m .	
morning sat		0 x . 1° x 31'01		asc. node		5°M01'45	
morning set	12003 Nov 21 10:14	1 X.21.01			12004 Oct 30 10:24		
	12002 NT - 20 05 22	170 705105	1020/25	morning set	12004 Nov 04 20:16	16°M07'20	
superior conj	12003 Nov 28 05:23	16° ₹ 25'36	1°38'35		12004 Nov 11 03:55	0° ∡ ¹	
minimum elong	12003 Nov 28 05:00	16° ₹ 23'29	1°39'22			=	
max. Earth dist.	12003 Nov 29 19:08	19° ∡ 53′03	1.32079 AU	superior conj	12004 Nov 11 16:45	1° ∡ 11′28	1°33'41

minimum elong	12004 Nov 11 15:24	1° ∡ 703'59	1°34'17	superior conj	12005 Oct 27 04:19	15°M54'08	1°23'07
max. Earth dist.	12004 Nov 11 13.24 12004 Nov 12 02:56	2° × ⁷ 08'15	1.31458 AU	minimum elong	12005 Oct 27 04:19	15°M42'57	1°23'25
evening rise	12004 Nov 12 02:30 12004 Nov 18 13:26	16° × 12'20	1.51456 AO	evening rise	12005 Nov 02 21:30	0° х ⁷ 42'34	1 23 23
evening rise	12004 Nov 25 10:23	0°る		evening rise	12005 Nov 02 21:30	0° 🗷 ¬2 3¬	
desc. node	12004 Dec 02 15:16	12° る 39'27			12005 Nov 18 14:57	0°ප	
dese. node	12004 Dec 15 01:50	0°≈		desc. node	12005 Nov 19 12:24	1° る 21'39	
evening max el	12004 Dec 19 11:42	4° ≈ 37'56	27°07'16	evening max el	12005 Dec 01 09:53	16° පි 03'14	26°08'50
retrograde	12005 Jan 02 09:52	11° ≈ 50'19		retrograde	12005 Dec 15 08:09	23° る 07'27	
evening set	12005 Jan 09 06:41	9° ≈ 46'39		evening set	12005 Dec 21 17:15	21° る 30'17	
min. Earth dist.	12005 Jan 13 02:06	7° ≈ 04'25	0.60442 AU	min. Earth dist.	12005 Dec 25 22:59	18° る 54'40	0.58317 AU
inferior conj	12005 Jan 16 05:50	4° ≈ 25'41	-3°13'35	inferior conj	12005 Dec 29 01:22	16° る 39'09	-4°30'36
minimum elong	12005 Jan 16 12:32	4° ≈ 11'34	3°10'27	minimum elong	12005 Dec 29 09:46	16° る 23'47	4°27'28
	12005 Jan 22 18:28	30°Ŗる		morning rise	12006 Jan 06 05:04	12° る 12'51	
morning rise	12005 Jan 23 21:16	29° る 37'14		direct	12006 Jan 08 07:52	11° る 58'03	
direct	12005 Jan 25 23:47	29° る 19'43		asc. node	12006 Jan 13 06:57	13° る 24'39	
asc. node	12005 Jan 26 09:44	29° る 20'25		morning max el	12006 Jan 16 15:30	16° පි 02'13	18°33'46
	12005 Jan 29 02:45	0° ≈			12006 Jan 26 10:08	0° ≈	
morning max el	12005 Feb 02 07:17	2° ≈ 58'58	18°00'20	morning set	12006 Feb 01 15:41	11° ≈ 40'57	
morning set	12005 Feb 17 21:28	27° ≈ 33'10					
	12005 Feb 19 05:16	0° ∀		superior conj	12006 Feb 10 13:36	28° ≈ 42'42	0°38'24
		> /		minimum elong	12006 Feb 10 16:03	28°≈54'06	0°38'30
superior conj	12005 Feb 28 00:38	15° ¥ 57'12			12006 Feb 11 06:17	0°) {	
minimum elong	12005 Feb 28 01:04	15°) €59'05	0°05'08	desc. node	12006 Feb 15 12:22	7°) (42'43	1 40177 411
behind sun begin	12005 Feb 27 17:29	15°) 25'41 16°) 32'24		max. Earth dist.	12006 Feb 17 22:55	11°) 59'46 19°) 06'28	1.40177 AU
behind sun end	12005 Feb 28 08:38	16° ★ 32 24 17° ★ 03'28		evening rise	12006 Feb 22 03:15	19°π06′28 0°Υ	
desc. node max. Earth dist.	12005 Feb 28 15:44 12005 Mar 07 14:50	28°\(\frac{1}{5}6'02	1.42292 AU		12006 Feb 28 20:52 12006 Mar 22 00:08	0° ∀	
max. Earm dist.	12005 Mar 07 14.30 12005 Mar 08 06:17	28 χ 3602	1.42292 AU	evening max el	12006 Mar 28 19:43	7° 8 41'22	23°48'16
evening rise	12005 Mar 13 05:10	8° Υ '02'08		retrograde	12006 Mai 28 19.43 12006 Apr 08 18:33	14° 8 08'19	23 48 10
evening rise	12005 Mar 17 05:10	0°8		asc. node	12006 Apr 06 16:35	13° 8 41'36	
evening max el	12005 Apr 15 05:11	23° 8 52'12	22°27'27	evening set	12006 Apr 14 00:31	11° 8 55'54	
asc. node	12005 Apr 24 06:55	29° 8 36'37	22 27 27	inferior conj	12006 Apr 19 11:00	5° 8 27'28	2°20'33
retrograde	12005 Apr 25 00:10	29° 8 39'05		minimum elong	12006 Apr 19 08:51	5° 8 34'48	2°19'34
evening set	12005 Apr 29 18:36	27° 8 40'11		min. Earth dist.	12006 Apr 18 18:24	6° 8 24'07	0.68585 AU
inferior conj	12005 May 05 02:04	21° 8 17'58	2°48'45		12006 Apr 24 00:04	30° Ŗ ♈	
minimum elong	12005 May 05 00:15	21° 8 24'17	2°47'48	morning rise	12006 Apr 24 17:12	29° Y 23'50	
min. Earth dist.	12005 May 04 21:47	21° 8 32'51	0.68791 AU	direct	12006 Apr 28 19:57	27° Y ′48'13	
morning rise	12005 May 10 05:47	15° 8 07'24			12006 May 04 03:59	9° 8	
direct	12005 May 14 21:27	13° 8 10'32		morning max el	12006 May 06 19:49	2° 8 20'27	20°30'16
morning max el	12005 May 24 00:35	18° 8 29'57	21°48'57	desc. node	12006 May 14 14:02	11° 8 37'12	
desc. node	12005 May 27 17:12	22° 8 33'01			12006 May 27 08:55	Π °0	
	12005 Jun 02 13:51	Π °0		morning set	12006 Jun 04 18:51	12° Ⅱ 49'24	
	12005 Jun 22 22:43	0 \circ		max. Earth dist.	12006 Jun 13 17:17	26° Ⅱ 54'36	1.43672 AU
morning set	12005 Jun 25 11:15	3° © 59'43			12006 Jun 15 15:12	0 \circ 60	
max. Earth dist.	12005 Jul 01 09:44	13° © 39'12	1.41769 AU				
	12005 1 1 00 01 21	260541126	1027107	superior conj	12006 Jun 20 02:49	7°521'34	
superior conj	12005 Jul 09 01:21	26°541'26		minimum elong	12006 Jun 20 08:49	7°546'30	2°02'40
minimum elong	12005 Jul 09 07:57 12005 Jul 10 22:26	27° © 10′23 0° Ω	1 3/0/	evening rise	12006 Jul 02 13:26 12006 Jul 03 07:48	28° © 39'40 0° Ω	
evening rise	12005 Jul 10 22:20 12005 Jul 19 20:54	16° Ω 13'26		asc. node	12006 Jul 08 02:42	8° Ω 19'44	
asc. node	12005 Jul 19 20:54 12005 Jul 21 05:50	18° Ω 44'47		evening max el	12006 Jul 19 12:17	24°Ω55'17	18°03'40
asc. node	12005 Jul 27 13:07	0°m)		retrograde	12006 Jul 26 00:20	28°Ω16'52	10 03 40
evening max el	12005 Aug 04 23:03	11° m) 45'57	18°11'06	evening set	12006 Jul 28 14:38	27° Ω 44'06	
retrograde	12005 Aug 12 00:34	15° m/21'12		inferior conj	12006 Aug 04 02:26	22° Ω 38'11	1°48'47
evening set	12005 Aug 14 06:47	14° m 59'44		minimum elong	12006 Aug 04 05:01	22° Ω 31'40	1°47'27
inferior conj	12005 Aug 21 10:53	10° m) 13'05	0°39'40	min. Earth dist.	12006 Aug 07 02:55	19° Ω 36′06	0.61732 AU
minimum elong	12005 Aug 21 12:10	10° Mp 10'16	0°38'50	morning rise	12006 Aug 10 16:56	16° Ω 34'40	
desc. node	12005 Aug 23 15:26	8° Mp 16'47		desc. node	12006 Aug 10 12:49	16° Ω 41'53	
min. Earth dist.	12005 Aug 24 18:26	7° m 18'59	0.59445 AU	direct	12006 Aug 17 09:02	14° Ω 15′01	
morning rise	12005 Aug 28 14:13	4° Mg 32′36		morning max el	12006 Aug 31 13:33	22° Ω 15'47	27°57'52
direct	12005 Sep 04 00:03	2°M/38'08			12006 Sep 07 09:03	0° m y	
morning max el	12005 Sep 18 08:28		27°39'40		12006 Sep 26 16:19	0∘ ⊽	
	12005 Oct 03 12:15	0∘ ত		morning set	12006 Oct 04 04:10	14° ≏ 35'03	
asc. node	12005 Oct 17 07:08	24° ≏ 40'50		asc. node	12006 Oct 04 03:52	14° △ 33'32	
•	12005 Oct 19 21:07	0°M		max. Earth dist.	12006 Oct 09 18:00	26° £ 25'37	1.31727 AU
morning set	12005 Oct 20 02:53	0°M30'19	1 21226 433		12006 Oct 11 09:07	0° M	
max. Earth dist.	12005 Oct 26 11:48	14~11622'16	1.31336 AU				

superior conj	12006 Oct 11 14:17	0°M28'30	1°07'02	max. Earth dist.	12007 Sep 22 17:48	8° ჲ 09'31	1.32641 AU
minimum elong	12006 Oct 11 12:02	0°M16'05	1°07'01				
evening rise	12006 Oct 18 08:09	15° M ₁7'36		superior conj	12007 Sep 25 20:41	14° ≏ 48'35	0°45'38
	12006 Oct 25 13:18	0° ∡		minimum elong	12007 Sep 25 18:43	14° ≏ 38'02	0°45'24
desc. node	12006 Nov 06 09:39	19° ∡ '07'45		evening rise	12007 Oct 02 19:30	29° ≙ 51'57	
evening max el	12006 Nov 13 00:06	26° ₹ ³39'26	24°42'17		12007 Oct 02 21:00	0°M	
	12006 Nov 17 00:25	ರ°0			12007 Oct 19 14:22	0° ∡ ¹	
retrograde	12006 Nov 26 18:46	3° ⋜ 33'03		desc. node	12007 Oct 24 06:57	5° ∡ ³36'37	
evening set	12006 Dec 02 04:33	2° そ 28'02		evening max el	12007 Oct 25 10:30	6° ₰ ¹46'04	23°01'36
	12006 Dec 06 23:43	30°₽ ⋌ ¹		retrograde	12007 Nov 07 16:09	13° ∡ ¹20'54	
min. Earth dist.	12006 Dec 07 11:49	29° ∡ ¹41'22	0.56435 AU	evening set	12007 Nov 11 16:59	12° ∡ ¹45'32	
inferior conj	12006 Dec 10 00:31	28° ₰ ¹04'46	-5°30'33	min. Earth dist.	12007 Nov 18 19:38	9° ∡ ¹29'35	0.55095 AU
minimum elong	12006 Dec 10 06:51	27° ∡ 754'39	5°28'48	inferior conj	12007 Nov 20 04:26	8° ∡ ¹42'28	-5°51'31
morning rise	12006 Dec 18 11:19	23° ₹ ′59'46		minimum elong	12007 Nov 20 03:27	8° ∡ ¹43'53	5°50'45
direct	12006 Dec 20 21:03	23° ∡ ¹43'51		morning rise	12007 Nov 28 15:28	4° ∡ 752'52	
morning max el	12006 Dec 30 13:10	28° ₹ ¹22'26	19°29'13	direct	12007 Dec 01 16:06	4° ∡ ³31'19	
asc. node	12006 Dec 31 04:06	28° ₹ 59'29		morning max el	12007 Dec 12 21:09	9° ₰ 750'52	20°47'41
	12007 Jan 01 02:48	8°0		asc. node	12007 Dec 18 01:12	15° ∡ ¹49'10	
morning set	12007 Jan 16 18:13	26° る 09'57			12007 Dec 26 15:39	8°0	
	12007 Jan 18 15:57	0° ≈		morning set	12008 Jan 01 02:07	10° る 51'49	
superior conj	12007 Jan 24 18:52	12° ≈ 12'51	1°04'24	superior conj	12008 Jan 08 12:06	26° ට 15'48	1°22'49
minimum elong	12007 Jan 24 21:47	12° ≈ 27'07	1°04'40	minimum elong	12008 Jan 08 14:30	26° る 28'06	1°23'21
max. Earth dist.	12007 Jan 31 04:55	24° ≈ 23'39	1.37948 AU		12008 Jan 10 08:15	0° ≈	
desc. node	12007 Feb 02 09:03	28° ≈ 19'46		max. Earth dist.	12008 Jan 13 13:42	6° ≈ 23'36	1.35839 AU
	12007 Feb 03 07:35	0° ∀		evening rise	12008 Jan 17 12:04	13° ≈ 51'43	
evening rise	12007 Feb 03 22:26	1° ∺ 05'32		desc. node	12008 Jan 20 05:49	18° ≈ 51'03	
	12007 Feb 22 02:24	0° Υ			12008 Jan 26 17:51	0° ∀	
evening max el	12007 Mar 11 09:16	21° Y 32'46	25°06'11		12008 Feb 16 22:28	0° Υ	
retrograde	12007 Mar 23 08:49	28° Y '30'08		evening max el	12008 Feb 21 22:58	5°Υ22'33	26°13'55
evening set	12007 Mar 29 02:37	26° Y ′06'48		retrograde	12008 Mar 05 17:59	12° Y 38'38	
asc. node	12007 Mar 29 01:36	26° Y 08'55	0.67040.444	evening set	12008 Mar 11 23:12	10° ℃ 07'57	
min. Earth dist.	12007 Apr 02 12:58	21°Υ10'25	0.67948 AU	asc. node	12008 Mar 14 22:59	7° Y ′09'47	0.66004.444
inferior conj	12007 Apr 03 17:40	19° Y 36'27 19° Y 43'06	1°42'31 1°41'40	min. Earth dist.	12008 Mar 16 03:16	5° Υ 46'28 3° Υ 41'03	0.66904 AU 0°54'33
minimum elong morning rise	12007 Apr 03 15:38 12007 Apr 09 04:58	13° Y 41'08	1-41-40	inferior conj	12008 Mar 17 20:05 12008 Mar 17 18:45	3° Y 45'08	0°54'33 0°54'04
direct	12007 Apr 09 04.38 12007 Apr 12 19:37	13 γ 41 08 12° Υ 26'12		minimum elong	12008 Mar 17 18.43	30°R ∺	0 34 04
morning max el	12007 Apr 12 19:37 12007 Apr 19 22:38	16° Υ 21'46	19°25'05	morning rise	12008 Mar 23 15:05	27° ¥ 55'51	
morning max ci	12007 Apr 19 22:38 12007 Apr 30 14:41	0°8	19 23 03	direct	12008 Mar 26 18:46	26° H 59'32	
desc. node	12007 Apr 30 14:41 12007 May 01 10:47	1° 8 13'09		direct	12008 Apr 01 19:30	20 γ (3) 32	
greatest brilliancy	12007 May 02 15:40	2° 8 59'16	-0.7m	morning max el	12008 Apr 02 08:40	0° Υ 31'12	18°35'46
morning set	12007 May 14 19:17	21° 8 25'02	0.7111	desc. node	12008 Apr 17 07:28	21° Υ 12'37	10 33 10
morning sec	12007 May 20 08:29	0°Ⅱ		dese. Hode	12008 Apr 22 22:09	0°8	
max. Earth dist.	12007 May 27 07:21	10° Ⅱ 52'38	1.45028 AU	morning set	12008 Apr 23 11:19	0° 8 51'44	
	,			max. Earth dist.	12008 May 09 02:04	25° 8 18'26	1.45697 AU
superior conj	12007 May 31 04:37	17° I I02'10	-2°13'18		,		
minimum elong	12007 May 31 05:19	17° Ⅱ 04'58	2°14'05	superior conj	12008 May 09 13:57	26° 8 04'53	-2°04'50
	12007 Jun 08 05:16	0 \circ \mathfrak{S}		minimum elong	12008 May 09 07:13	25° 8 38'34	2°05'08
evening rise	12007 Jun 14 08:53	10° © 09'34			12008 May 12 02:02	$\Pi^{\circ}0$	
asc. node	12007 Jun 24 23:39	27° 5 34'14		evening rise	12008 May 25 04:08	20° Ⅲ 38′57	
	12007 Jun 26 13:45	0 $^{\circ}$ Ω			12008 May 31 01:13	0 \circ	
evening max el	12007 Jul 03 02:22	8° Ω 23'03	18°14'49	greatest brilliancy	12008 Jun 02 05:06	3° © 24'58	-0.8m
retrograde	12007 Jul 09 10:59	11° Ω 45'12		asc. node	12008 Jun 10 20:40	16° 5 21'07	
evening set	12007 Jul 12 09:34	10° Ω 58'33		evening max el	12008 Jun 15 14:18	22° © 01'34	18°43'45
inferior conj	12007 Jul 18 08:49	5° Ω 35'08		retrograde	12008 Jun 22 04:42	25° © 37'58	
minimum elong	12007 Jul 18 11:14	5° Ω 28'17		evening set	12008 Jun 25 11:41	24°935'56	
min. Earth dist.	12007 Jul 20 20:39		0.63894 AU	inferior conj	12008 Jul 01 02:10	18°956'35	3°02'28
	12007 Jul 23 15:29	30°₹©		minimum elong	12008 Jul 01 03:43	18°951'48	3°01'27
morning rise	12007 Jul 24 11:25	29°©18'37		min. Earth dist.	12008 Jul 02 23:18	16°537'07	0.65745 AU
desc. node	12007 Jul 28 10:09	27°507'37		morning rise	12008 Jul 13 04:46	12° © 34'39 9° © 52'34	
direct	12007 Jul 31 03:08 12007 Aug 08 12:29	26° © 42'32 0° Ω		direct desc. node	12008 Jul 13 04:46 12008 Jul 14 07:25	9°952'34 9°956'56	
morning max el	12007 Aug 08 12:29 12007 Aug 13 22:45	0°87 4°Ω43'44	27°38'46	morning max el	12008 Jul 14 07:25 12008 Jul 26 09:40	17° © 41'42	26°48'15
morning max or	12007 Aug 13 22:43 12007 Sep 02 01:05	0°m)	2, 5040	morning max or	12008 Aug 05 16:54	0°Ω	20 1013
morning set	12007 Sep 02 01:03 12007 Sep 17 21:41	28° m/ 15'02			12008 Aug 24 23:30	0° mp	
5	12007 Sep 18 18:41	0ಂ ⊽		morning set	12008 Aug 31 04:28	11° mp 23'01	
asc. node	12007 Sep 21 00:34	4° م 34'32		max. Earth dist.	12008 Sep 04 08:21	19° m 31'00	1.34070 AU
	=				=		

asc. node	12008 Sep 06 21:14	24° TD 39'49			12009 Jul 30 16:34	$0^{\circ}\Omega$	
				morning set	12009 Aug 13 20:48	23° Ω 49'49	
superior conj	12008 Sep 08 21:12	28° Mp 48'13	0°19'14		12009 Aug 17 04:52	0° m	
minimum elong	12008 Sep 08 20:12	28° Mp 43'01	0°18'56	max. Earth dist.	12009 Aug 17 12:55	0° ™ 37'59	1.35958 AU
	12008 Sep 09 10:55	0∘ ⊽					
evening rise	12008 Sep 16 05:36	14° ≏ 20′22		superior conj	12009 Aug 23 13:04	12° m 20'28	
	12008 Sep 24 03:08	0° M		minimum elong	12009 Aug 23 13:47	12° m 24'04	0°11'40
evening max el	12008 Oct 06 01:51	16°M58'02	21°24'14	behind sun begin	12009 Aug 23 09:26	12° m 02'15	
desc. node	12008 Oct 10 04:19	20°M21'10		behind sun end	12009 Aug 23 18:09	12° M 45'55	
retrograde	12008 Oct 18 04:20	22°M59'01		asc. node	12009 Aug 24 17:55	14° m 45'38	
evening set	12008 Oct 20 21:05	22°M42'15		evening rise	12009 Aug 31 12:19	28° m 37'03	
inferior conj	12008 Oct 29 20:55	18°M47'23			12009 Sep 01 04:34	0∘ ⊽	
minimum elong	12008 Oct 29 12:18		5°13'14	evening max el	12009 Sep 18 05:50	27° ≏ 47'42	20°03'05
min. Earth dist.	12008 Oct 30 02:06	18° M ₄40'07	0.54561 AU		12009 Sep 20 17:59	0° ™	
morning rise	12008 Nov 07 04:22	14°M58'11		desc. node	12009 Sep 27 01:43	2°M53'44	
direct	12008 Nov 11 00:26	14°M26'27		retrograde	12009 Sep 28 18:06	3°M01'30	
morning max el	12008 Nov 23 15:49	20°M28'56	22°26'10	evening set	12009 Sep 30 17:01	2° ™ 51'27	
_	12008 Dec 01 13:34	0° ∡ ¹			12009 Oct 07 18:18	30° ₽ Ω	
asc. node	12008 Dec 03 22:12	3° ⋌ 36'46		inferior conj	12009 Oct 09 16:09	28° ≏ 52'11	
morning set	12008 Dec 15 12:57	25° ∡ '38'42		minimum elong	12009 Oct 09 06:43	29° ≏ 06'23	3°43'54
	12008 Dec 17 14:03	0°ප		min. Earth dist.	12009 Oct 11 10:44	27° ≏ 48'08	0.54968 AU
		_		morning rise	12009 Oct 17 19:14	24° ≏ 41'54	
superior conj	12008 Dec 22 13:42	10° ろ 40'28	1°34'04	direct	12009 Oct 22 11:25	23° ≏ 54'24	
minimum elong	12008 Dec 22 15:06	10° る 47'55	1°34'50		12009 Nov 04 11:07	0° ™	
max. Earth dist.	12008 Dec 26 04:53	18° る 16'35	1.34034 AU	morning max el	12009 Nov 05 03:10	0° ™ 37'03	24°14'12
evening rise	12008 Dec 30 16:21	27° る 14'27		asc. node	12009 Nov 20 19:07	22°M08'32	
	12009 Jan 01 02:45	0° ≈			12009 Nov 24 23:33	0° ∡ ¹	
desc. node	12009 Jan 06 02:39	9° ≈ 11'19		morning set	12009 Nov 30 00:49	10° ∡ °25′12	
	12009 Jan 19 01:07	0° ∀					
evening max el	12009 Feb 03 12:29	19° ∺ 01'08	27°04'14	superior conj	12009 Dec 06 20:51	25° ∡ 18'47	1°38'43
retrograde	12009 Feb 16 21:16	26° ∺ 25'29		minimum elong	12009 Dec 06 21:07	25° ∡ ′20′11	1°39'32
evening set	12009 Feb 23 12:19	23° ¥ 52'32		max. Earth dist.	12009 Dec 09 03:46	0° ರ 16'12	1.32655 AU
min. Earth dist.	12009 Feb 27 11:03	20°) € 04'42	0.65471 AU		12009 Dec 09 00:45	0° ろ	
inferior conj	12009 Mar 01 15:54	17°) ₹35′12		evening rise	12009 Dec 14 07:57	11° る 05'26	
minimum elong	12009 Mar 01 16:00	17°) ₹34'56	0°03'19	desc. node	12009 Dec 23 23:34	29° る 15'09	
transit middle	12009 Mar 01 16:00	17°) (34′56	0°03'19		12009 Dec 24 09:55	0° ≈	
transit begin	12009 Mar 01 13:04	17°) 43′16			12010 Jan 14 17:53	0° ∀	
transit end	12009 Mar 01 18:56	17° ¥ 26′38		evening max el	12010 Jan 17 00:42	2°) 17'37	27°30'06
asc. node	12009 Mar 01 20:21	17° ¥ 22'37		retrograde	12010 Jan 30 18:05	9°) 41'46	
morning rise	12009 Mar 07 21:08	12°) €02'22		evening set	12010 Feb 06 15:39	7° ¥ 13′29	
direct	12009 Mar 10 15:08	11°) €21'40		min. Earth dist.	12010 Feb 10 10:27		0.63697 AU
morning max el	12009 Mar 16 23:55	14°) 41′54	18°03'11	inferior conj	12010 Feb 13 02:30	1° ¥ 12'35	
	12009 Mar 28 02:22	0° Υ		minimum elong	12010 Feb 13 04:47	1° ∺ 06'43	1°10'14
morning set	12009 Apr 04 07:17	11° Y ′41'37			12010 Feb 14 07:15	30° R ≈	
desc. node	12009 Apr 04 04:06	11° Y ′28'36		asc. node	12010 Feb 16 17:41	27° ≈ 47'48	
	12009 Apr 15 15:43	0° 8		morning rise	12010 Feb 19 20:08	25° ≈ 54'40	
				direct	12010 Feb 22 06:06	25° ≈ 25'58	
superior conj	12009 Apr 18 23:09	5° 8 14'14		morning max el	12010 Feb 28 17:32	28°≈45'59	17°47'47
minimum elong	12009 Apr 18 13:51	4° 8 37'33			12010 Mar 01 21:47	0° ∀	
max. Earth dist.	12009 Apr 21 22:12		1.45613 AU	morning set	12010 Mar 17 06:32	23° ¥ 50′22	
	12009 May 04 20:57	0°II			12010 Mar 20 21:15	0° Υ	
evening rise	12009 May 05 01:48	0° Ⅱ 18'46		desc. node	12010 Mar 22 00:42	1° Y 56'15	
greatest brilliancy	12009 May 18 03:28	20° Ⅱ 15'05	-0.7m			••	
	12009 May 25 00:42	0ა ௐ		superior conj	12010 Mar 30 01:01	15° Y 14'11	
asc. node	12009 May 28 17:45	4° © 31'02		minimum elong	12010 Mar 29 18:54	14° Y 49'18	
evening max el	12009 May 29 21:49	5°9545'00	19°29'31	max. Earth dist.	12010 Apr 04 16:52	24° Y 19'57	1.44803 AU
retrograde	12009 Jun 06 02:14	9° © 48'09			12010 Apr 08 07:12	0°8	
evening set	12009 Jun 09 18:05	8° © 30'02		evening rise	12010 Apr 14 13:12	9° 8 40'42	
inferior conj	12009 Jun 15 03:11	2°536'23	3°14'10		12010 Apr 28 02:10	0°II	
minimum elong	12009 Jun 15 03:38	2° © 34'54	3°13'18	evening max el	12010 May 12 23:42	19° Ⅲ 29'54	20°30'10
min. Earth dist.	12009 Jun 16 09:34	0° © 56'04	0.67182 AU	asc. node	12010 May 15 14:53	21° Ⅲ 51'55	
	12009 Jun 17 02:56	30°Ŗ Ⅱ		retrograde	12010 May 21 01:05	24° Ⅱ 09'43	
morning rise	12009 Jun 20 12:44	26° Ⅱ 14'06		evening set	12010 May 25 02:31	22° I I35'28	
direct	12009 Jun 26 12:52	23° Ⅲ 35'52		inferior conj	12010 May 30 09:07	16° Ⅲ 29'08	3°12'55
desc. node	12009 Jul 01 04:35	24° Ⅱ 52'57		minimum elong	12010 May 30 08:31	16° Ⅲ 31′12	3°12'06
	12009 Jul 07 20:47	0 \circ 60		min. Earth dist.	12010 May 31 01:29	15° Ⅲ 32'55	0.68174 AU
morning max el	12009 Jul 08 20:22	0° © 58'27	25°34'53	morning rise	12010 Jun 04 14:15	10° Ⅱ 09'50	

direct	12010 Jun 10 02:31	7° ∏ 43'25		morning max el	12011 Jun 03 17:09	27° 8 58'03	22°38'31
desc. node	12010 Jun 18 01:39	11° I I27'07		desc. node	12011 Jun 04 22:37	29° 8 14'32	3031
morning max el	12010 Jun 21 06:14	14° ∏ 24'27	24°08'19		12011 Jun 05 15:22	0°II	
5 5	12010 Jul 03 23:08	0°95			12011 Jun 27 14:30	0°ತಾ	
	12010 Jul 23 13:54	$0^{\circ}\Omega$		morning set	12011 Jul 07 15:06	15° © 50'19	
morning set	12010 Jul 26 17:54	5° Ω 22'34		max. Earth dist.	12011 Jul 12 08:35	23°5543'26	1.40505 AU
max. Earth dist.	12010 Jul 30 10:35	11° Ω 51'26	1.38179 AU		12011 Jul 15 24:00	$0^{\circ}\Omega$	
superior conj	12010 Aug 06 16:50	25° Ω 16′01	-0°45'05	superior conj	12011 Jul 20 04:27	7° Ω 26′24	-1°19'00
minimum elong	12010 Aug 06 19:55	25° Ω 30'47	0°45'05	minimum elong	12011 Jul 20 10:03	7° Ω 51'45	1°18'55
	12010 Aug 09 03:48	0° ™		asc. node	12011 Jul 29 11:20	24° Ω 42′27	
asc. node	12010 Aug 11 14:35	4° m 47'35		evening rise	12011 Jul 30 04:34	26° Ω 03'55	
evening rise	12010 Aug 15 13:01	12° Mp 34'02			12011 Aug 01 06:39	0° m	
	12010 Aug 24 22:38	0∘ ⊽		evening max el	12011 Aug 15 04:12	21° m 45'09	18°24'13
evening max el	12010 Aug 31 23:38	9° ჲ 24'49	19°03'02	retrograde	12011 Aug 22 18:11	25° Mp 34'25	
retrograde	12010 Sep 09 20:42	13° ჲ 50'53		evening set	12011 Aug 24 20:16	25° Mp 17'51	
evening set	12010 Sep 11 17:17	13° ≏ 40'01		desc. node	12011 Aug 31 20:33	21°Mp12'11	
desc. node	12010 Sep 13 23:09	13° ഫ 00'02		inferior conj	12011 Sep 01 11:03	20° Mp 43'08	
inferior conj	12010 Sep 20 02:54	9° ≏ 25'47		minimum elong	12011 Sep 01 10:37	20° To 44'00	0°11'16
minimum elong	12010 Sep 19 21:54	9° ≙ 34'24	1°53'57	transit middle	12011 Sep 01 10:37	20° m/44'00	0°11'16
min. Earth dist.	12010 Sep 22 23:40	7° ≏ 27'49	0.56253 AU	transit begin	12011 Sep 01 08:05	20° Mp 49'06	
morning rise	12010 Sep 27 23:27	4° Ω 40'19		transit end	12011 Sep 01 13:09	20° m 38'53	
direct	12010 Oct 03 11:04	3° Ω 29'47		min. Earth dist.	12011 Sep 04 18:35	18° Mp 03'57	0.58180 AU
morning max el	12010 Oct 17 15:04	10° Ω 45'04	25°55'03	morning rise	12011 Sep 08 21:29	15° Tp 21'08	
	12010 Nov 01 08:02	0°M		direct	12011 Sep 15 01:03	13° m 42'47	
asc. node	12010 Nov 07 15:57	11°M12'49		morning max el	12011 Sep 29 09:00	21° m/21'28	27°11'31
morning set	12010 Nov 14 11:58	25°M06'00			12011 Oct 06 22:09	0∘ 亚	
	12010 Nov 16 18:12	0° ∡ 7		1	12011 Oct 25 04:26	0°M	
	12010 N 21 07 15	100 702121	1027112	asc. node	12011 Oct 25 12:43	0°M41'02	
superior conj	12010 Nov 21 07:15	10° ₹ 03'21 9° ₹ 58'49	1°37'13	morning set	12011 Oct 29 20:46	9°M36'35	
minimum elong max. Earth dist.	12010 Nov 21 06:26 12010 Nov 22 08:57	12° x '38'49	1°37'56 1.31753 AU	aumariar aani	12011 Nov 05 18:56	24°M48'12	1°29'54
evening rise	12010 Nov 22 08.37 12010 Nov 28 07:52	12 x · 23 36 25° x 16'49	1.31/33 AU	superior conj minimum elong	12011 Nov 05 18.36 12011 Nov 05 17:16	24°M38'53	1°29'34 1°30'22
evening rise	12010 Nov 28 07:32 12010 Nov 30 15:00	23×1049		max. Earth dist.	12011 Nov 05 17:10 12011 Nov 05 17:34	24°M40'36	1.31344 AU
desc. node	12010 Nov 30 13:00 12010 Dec 10 20:35	18° る 55'18		max. Earth dist.	12011 Nov 08 02:55	0° × 7	1.51544 AO
desc. node	12010 Dec 10 20:33	0°≈		evening rise	12011 Nov 08 02:33	9° ∡ ¹42'00	
evening max el	12010 Dec 30 09:40	15°≈00'00	27°25'28	evening rise	12011 Nov 12 13:30	0°る	
retrograde	12011 Jan 13 07:20	22° ≈ 17'48	27 23 20	desc. node	12011 Nov 27 17:40	8° る 02'07	
evening set	12011 Jan 20 06:15	20°≈02'51		evening max el	12011 Dec 12 12:46	26° る 56'35	26°46'33
min. Earth dist.	12011 Jan 24 00:01		0.61666 AU		12011 Dec 16 03:20	0° ≈	
inferior conj	12011 Jan 27 00:44	14° ≈ 25′21		retrograde	12011 Dec 26 11:25	4°≈05'03	
minimum elong	12011 Jan 27 05:50	14° ≈ 13'46		evening set	12012 Jan 02 04:20	2° ≈ 12'08	
morning rise	12011 Feb 03 08:11	9° ≈ 25'10		C	12012 Jan 05 13:15	30°Rる	
asc. node	12011 Feb 03 14:58	9° ≈ 20'15		min. Earth dist.	12012 Jan 06 02:56	29° る 34'19	0.59525 AU
direct	12011 Feb 05 12:24	9°≈04'41		inferior conj	12012 Jan 09 07:05	27° る 03'41	-3°47'12
morning max el	12011 Feb 12 10:21	12° ≈ 34′29	17°50'17	minimum elong	12012 Jan 09 14:47	26° る 48'25	3°43'54
	12011 Feb 24 05:03	0° ∀		morning rise	12012 Jan 17 04:05	22° る 24'06	
morning set	12011 Feb 28 03:08	6° ¥ 59'50		direct	12012 Jan 19 06:04	22° る 08'08	
desc. node	12011 Mar 08 21:19	22°) ₹31'35		asc. node	12012 Jan 21 12:15	22° る 27'45	
				morning max el	12012 Jan 26 22:46	25° る 57'08	18°11'54
superior conj	12011 Mar 11 03:08	26° ∺ 23'06			12012 Jan 30 09:56	0° ≈	
minimum elong	12011 Mar 11 01:32	26° ¥ 16′18	0°16'53	morning set	12012 Feb 11 14:56	20° ≈ 50'52	
	12011 Mar 13 06:18	0° Υ			12012 Feb 16 11:55	0° ∀	
max. Earth dist.	12011 Mar 18 08:11	8° Y ′24'18	1.43355 AU				
evening rise	12011 Mar 25 06:12	19° Y ′25'33		superior conj	12012 Feb 21 04:35	8°) (36′37	
	12011 Apr 01 03:44	0° 8		minimum elong	12012 Feb 21 06:05	8°) (43′25	0°20'06
	12011 Apr 22 19:49	0°П		desc. node	12012 Feb 23 17:56	13° ¥ 10′15	
evening max el	12011 Apr 25 20:10	3° Ⅱ 16'43	21°42'27	max. Earth dist.	12012 Feb 28 19:18	21°) 54'11	1.41429 AU
asc. node	12011 May 02 12:07	8° Ⅱ 09'51		evening rise	12012 Mar 04 16:17	29° ¥ 58′21 0° Ƴ	
retrograde	12011 May 04 23:17	8°Ⅱ38'40			12012 Mar 04 16:41	0°Y	
evening set	12011 May 09 11:13	6° П 48'39 0° П 31'41	2000121	avanina ma1	12012 Mar 24 15:44	.T.	22001145
inferior conj minimum elong	12011 May 14 17:48 12011 May 14 16:20	0°Щ31'41 0°Щ36'46	3°00'31 2°59'38	evening max el retrograde	12012 Apr 07 12:29 12012 Apr 17 19:19	17° 8 05'12 23° 8 09'14	25 01 45
min. Earth dist.	12011 May 14 10.20 12011 May 14 20:56	0° П 20'44	2 3938 0.68702 AU	asc. node	12012 Apr 17 19:19 12012 Apr 18 09:26	23° 8 07'37	
mm. Darm dist.	12011 May 14 20:50 12011 May 15 02:53	30°R と	0.00702 AU	evening set	12012 Apr 18 09:20 12012 Apr 22 18:36	23 8 0737	
morning rise	12011 May 19 02:35	24° 8 17'27		min. Earth dist.	12012 Apr 22 18:30 12012 Apr 27 17:41	15° 8 12'19	0.68766 AU
direct	12011 May 19 21:15	22° 8 08'37		inferior conj	12012 Apr 27 17:41 12012 Apr 28 03:11	14° 8 39'25	2°37'57
							

minimum elong	12012 Apr 28 01:11	14° 8 46'22	2°37'00	inferior conj	12013 Apr 12 11:23	28° Y 48'53	2°05'37
morning rise	12012 May 03 07:38	8° 8 31'43		minimum elong	12013 Apr 12 09:14	28° Y 56'09	2°04'39
direct	12012 May 07 17:52	6° ႘ 43'38		morning rise	12013 Apr 17 19:29	22° Ƴ 48'51	
morning max el	12012 May 16 08:30	11° 8 41'25	21°13'59	direct	12013 Apr 21 16:59	21° Y 22'14	
desc. node	12012 May 21 19:30	17° 8 54'46		morning max el	12013 Apr 29 06:58	25° Ƴ 36'53	20°00'40
	12012 May 30 17:22	Π °0			12013 May 03 05:11	$0^{\circ}S$	
morning set	12012 Jun 16 10:40	25° Ⅱ 09'55		desc. node	12013 May 08 16:19	7° 8 13'25	
	12012 Jun 19 11:54	0			12013 May 24 01:37	Π °0	
max. Earth dist.	12012 Jun 23 12:40	6° © 30'52	1.42644 AU	morning set	12013 May 26 12:34	3° Ⅱ 46′02	
				max. Earth dist.	12013 Jun 05 23:41	20° Ⅱ 07'50	1.44334 AU
superior conj	12012 Jun 30 19:26	18° 95 41'17					
minimum elong	12012 Jul 01 02:16	19° © 10'30	1°49'12	superior conj	12013 Jun 11 10:31	28° Ⅱ 54'26	
	12012 Jul 07 07:06	0 \circ Ω		minimum elong	12013 Jun 11 14:52	29° Ⅱ 12'09	2°09'42
evening rise	12012 Jul 12 06:52	8° Ω 56′29			12013 Jun 12 02:35	0 \circ \odot	
asc. node	12012 Jul 15 08:10	14° Ω 25'52		evening rise	12013 Jun 24 15:01	20°959'58	
	12012 Jul 24 18:40	0° m)			12013 Jun 29 21:29	0 \circ Ω	
evening max el	12012 Jul 28 15:21	4° m 38'54	18°05'36	asc. node	12013 Jul 02 05:04	3° Ω 52'40	
retrograde	12012 Aug 04 09:39	8° Mp 06'23		evening max el	12013 Jul 12 05:16	17° Ω 56′26	18°06'08
evening set	12012 Aug 06 19:23	7° m 40'19		retrograde	12013 Jul 18 14:44	21° Ω 16'49	
inferior conj	12012 Aug 13 16:06	2° m 44'59	1°11'58	evening set	12013 Jul 21 08:31	20° Ω 38'24	
minimum elong	12012 Aug 13 18:09	2° Mp 40'09	1°10'49	inferior conj	12013 Jul 27 14:28	15° Ω 24'31	2°11'06
	12012 Aug 16 14:47	30° R Ω		minimum elong	12013 Jul 27 17:06	15° Ω 17'29	2°09'44
min. Earth dist.	12012 Aug 16 21:29	29° Ω 44'59	0.60420 AU	min. Earth dist.	12013 Jul 30 09:52	12° Ω 25'53	0.62677 AU
desc. node	12012 Aug 17 17:57	29° Ω 00'36		morning rise	12013 Aug 02 23:41	9° Ω 14'08	
morning rise	12012 Aug 20 13:59	26° Ω 53'38		desc. node	12013 Aug 04 15:19	8° Ω 09'52	
direct	12012 Aug 27 03:22	24° Ω 47'55		direct	12013 Aug 09 16:10	6° Ω 46'35	
	12012 Sep 07 11:28	0° m)		morning max el	12013 Aug 23 17:50	14° Ω 48'58	27°54'12
morning max el	12012 Sep 10 10:28	~	27°52'20		12013 Sep 05 02:02	0° m	
	12012 Sep 30 10:28	0∘ ত			12013 Sep 23 01:02	0∘ ⊽	
asc. node	12012 Oct 11 09:29	20° ≏ 26'21		morning set	12013 Sep 26 23:40	7° ≏ 46'52	
morning set	12012 Oct 13 01:24	23° ≏ 52'14		asc. node	12013 Sep 28 06:10	10° ≏ 22'47	
	12012 Oct 15 22:39	0° M		max. Earth dist.	12013 Oct 02 06:02	18° ≏ 48'24	1.32048 AU
max. Earth dist.	12012 Oct 19 01:58	6°M52′00	1.31438 AU				
				superior conj	12013 Oct 04 14:44	23° ≏ 56'05	0°58'35
superior conj	12012 Oct 20 06:04	9° ™ 27'45	1°16'58	minimum elong	12013 Oct 04 12:31	23° ≏ 44'02	0°58'28
minimum elong	12012 Oct 20 03:54	9° ™ 15'42	1°17'08		12013 Oct 07 09:02	0° M ₊	
evening rise	12012 Oct 26 23:02	24°M15'03		evening rise	12013 Oct 11 10:11	8° M 49'54	
	12012 Oct 29 16:17	0° ∡ 7			12013 Oct 22 05:25	0° ∡ 7	
desc. node	12012 Nov 13 14:51	26° ₹ '22'43		desc. node	12013 Oct 31 12:07	13° ⋌ '38'38	
	12012 Nov 16 06:11	0°∃		evening max el	12013 Nov 04 19:04	18° ⋌ 19'09	24°00'09
evening max el	12012 Nov 23 07:37	8°号00'38	25°34'56	retrograde	12013 Nov 18 09:35	25° ⋌ ¹06'55	
retrograde	12012 Dec 07 04:35	15° පි 00'04		evening set	12013 Nov 23 06:24	24° ⋌ 15'04	
evening set	12012 Dec 13 05:29	13° පි 36'10		min. Earth dist.	12013 Nov 29 05:50		0.55777 AU
min. Earth dist.	12012 Dec 17 19:54	10°る58'27	0.57472 AU	inferior conj	12013 Dec 01 08:36	20° ∡ 01'29	
inferior conj	12012 Dec 20 18:13	8° ろ 57'58		minimum elong	12013 Dec 01 12:23	19° ⋌ '55'45	5°44'30
minimum elong	12012 Dec 21 02:22	8° る 43'56	4°56'35	morning rise	12013 Dec 09 20:21	16° ⋌ '04'44	
morning rise	12012 Dec 29 01:43	4°る40'56		direct	12013 Dec 12 11:32	15° ⋌ ¹47'05	10050156
direct	12012 Dec 31 06:44	4°る26'02		morning max el	12013 Dec 22 19:06	20° × ⁷ 42'02	19°59'56
asc. node	12013 Jan 07 09:28	7°る12'24	10054122	asc. node	12013 Dec 25 06:36	23° ∡ 20'39	
morning max el	12013 Jan 09 02:58	8° る 43'26	18°54'32	. ,	12013 Dec 30 02:46	0°る	
. ,	12013 Jan 22 21:35	0° ≈		morning set	12014 Jan 09 18:19	19° る 44'39	
morning set	12013 Jan 25 13:11	5° ≈ 09'33			12014 Jan 14 18:48	0° ≈	
	12012 E 1 02 01 02	21042112	0050120	·	12014 1 17 11 50	E000140	1012107
superior conj	12013 Feb 03 01:08	21°≈43'12	0°50'20	superior conj	12014 Jan 17 11:59	5°≈28'40	1°13'06
minimum elong	12013 Feb 03 03:56	21°≈56'32	0°50'29	minimum elong	12014 Jan 17 14:46	5°≈42'33	1°13'29
1 1	12013 Feb 07 11:48	0°) {		max. Earth dist.	12014 Jan 23 09:07	16°≈53'20	1.37020 AU
desc. node	12013 Feb 09 14:37	3°) 49′06	1 20227 411	evening rise	12014 Jan 27 02:59	23°≈46'30	
max. Earth dist.	12013 Feb 10 02:40	4°) (42'42	1.39237 AU	desc. node	12014 Jan 27 11:20	24°≈23'59	
evening rise	12013 Feb 13 23:36	11°) € 26'52			12014 Jan 30 15:50	0° ∀ 0° Ƴ	
	12013 Feb 25 12:03	0° Υ			12014 Feb 19 04:59		25027121
	12013 Mar 20 04:27	0°8	24022101	evening max el	12014 Mar 03 15:44		25°36'31
evening max el	12013 Mar 21 02:25	0° 8 55'34	24°22'01	retrograde	12014 Mar 16 00:18	21° Y 53'33	
retrograde	12013 Apr 01 11:57	7° 8 36'12		evening set	12014 Mar 21 23:08	19° ℃ 26'15	
asc. node	12013 Apr 05 06:47	6° 8 31'24		asc. node	12014 Mar 23 04:10	18° ℃ 19'24	0.68555 : **
evening set	12013 Apr 06 23:07	5° 8 18'35	0.604=0.4==	min. Earth dist.	12014 Mar 26 06:34	14° Y 45'00	0.67557 AU
min. Earth dist.	12013 Apr 11 13:35	0° 8 02'10	0.68379 AU	inferior conj	12014 Mar 27 16:31	12° Y 56′29	1°23'27
	12013 Apr 11 14:14	30° ₹Ƴ		minimum elong	12014 Mar 27 14:42	13° Y ′02'17	1°22'41

morning rise	12014 Apr 02 06:49	7° Ƴ 05′28		min. Earth dist.	12015 Mar 09 18:26	29°) 14′09	0.66332 AU
direct	12014 Apr 05 16:34	5° Ƴ 58'57		asc. node	12015 Mar 10 01:32	28° ¥ 53'19	
morning max el	12014 Apr 12 13:09	9° Ƴ 42'53	19°02'04	inferior conj	12015 Mar 11 16:25	26° ¥ 57'17	0°31'09
desc. node	12014 Apr 25 13:03	27° Y 00'19		minimum elong	12015 Mar 11 15:36	26° ¥ 59'43	0°30'57
greatest brilliancy	12014 Apr 25 19:05	27° Y 23'02	-0.7m	morning rise	12015 Mar 17 15:28	21° ¥ 16′57	
	12014 Apr 27 12:31	9° 8		direct	12015 Mar 20 14:44	20° ∺ 27'50	
morning set	12014 May 05 17:12	12° 8 36'49		morning max el	12015 Mar 27 01:41	23° ¥ 53'37	18°19'48
	12014 May 16 21:37	$\Pi^{\circ}0$			12015 Apr 01 03:58	0° Y	
max. Earth dist.	12014 May 19 15:50	4° Ⅱ 19'06	1.45400 AU	desc. node	12015 Apr 12 09:43	17° Y ′07'28	
		_		morning set	12015 Apr 15 20:30	22° Ƴ 37'17	
superior conj	12014 May 22 03:50	8° Ⅱ 14'54			12015 Apr 20 11:50	0° 8	
minimum elong	12014 May 22 01:14	8° Ⅱ 04'40	2°12'57				
	12014 Jun 04 17:49	0°9		superior conj	12015 May 01 10:54	17° 8 14'55	
evening rise	12014 Jun 06 00:24	2°504'30		minimum elong	12015 May 01 02:12	16° 8 40'56	
asc. node	12014 Jun 19 02:02	22°956'41		max. Earth dist.	12015 May 02 11:00	18° 8 49'04	1.45752 AU
	12014 Jun 24 09:08	0°Ω 1°Ω20127	10024150		12015 May 09 14:56	0°Ⅱ 12°Ⅱ09'52	
evening max el	12014 Jun 25 18:43	1° Ω 29'37 4° Ω 56'35	18°24'59	evening rise	12015 May 17 09:36	12°Щ09′52 28°Щ21′57	0.0
retrograde	12014 Jul 02 04:55 12014 Jul 05 06:55	$4^{\circ} \Omega 03'43$		greatest brilliancy	12015 May 27 19:02 12015 May 28 20:44	28°Щ21'37 0° ©	-0.8m
evening set	12014 Jul 09 20:12	4 8 203 43 30°RS		asc. node	12015 May 28 20.44 12015 Jun 05 23:04	11° © 29'16	
inferior conj	12014 Jul	28°933'21	2°48'52	evening max el	12015 Jun 09 05:01	15°9510'59	19°01'16
minimum elong	12014 Jul 11 04:07	28° © 27'09	2°47'42	retrograde	12015 Jun 16 00:30	18°957'16	19 01 10
min. Earth dist.	12014 Jul 11 04:07	25°955'10	0.64722 AU	evening set	12015 Jun 19 11:08	17°5948'36	
morning rise	12014 Jul 17 00:06	22° © 13'27	0.04722 AU	inferior conj	12015 Jun 24 22:59	12°903'16	3°09'07
desc. node	12014 Jul 22 12:37	19° 9 37'14		minimum elong	12015 Jun 25 00:04	11°959'48	3°08'11
direct	12014 Jul 23 13:47	19°533'23		min. Earth dist.	12015 Jun 26 13:53	9°959'16	0.66415 AU
morning max el	12014 Aug 06 04:15	27° © 32'05	27°20'38	morning rise	12015 Jun 30 12:21	5°9540'39	0.00.110.110
morning must be	12014 Aug 08 12:11	0° Ω	27 2030	direct	12015 Jul 06 18:32	2°958'45	
	12014 Aug 29 19:09	0° m/p		desc. node	12015 Jul 09 09:51	3° 5 23'32	
morning set	12014 Sep 10 13:01	21° mp 14'28		morning max el	12015 Jul 19 15:03	10° © 38'46	26°19'06
C	12014 Sep 14 21:45	0∘ ⊽		Č	12015 Aug 03 23:33	$0^{\circ}\Omega$	
max. Earth dist.	12014 Sep 15 02:06	0° £ 22'21	1.33184 AU		12015 Aug 22 08:46	0° m)	
asc. node	12014 Sep 15 02:50	0° ≏ 26'09		morning set	12015 Aug 24 14:07	4° ™ 05'53	
				max. Earth dist.	12015 Aug 28 11:48	11° m 33'32	1.34823 AU
superior conj	12014 Sep 18 18:53	8° ഫ 08'05	0°35'00	asc. node	12015 Sep 01 23:29	20° m 31'57	
minimum elong	12014 Sep 18 17:15	7° £ 59'22	0°34'44				
evening rise	12014 Sep 25 21:13	23° ჲ 22'03		superior conj	12015 Sep 02 16:04	21°M 56'51	0°06'40
	12014 Sep 29 01:26	0°M₊		minimum elong	12015 Sep 02 15:42	21° m 54'59	0°06'24
evening max el	12014 Oct 17 06:13	28°M22'36	22°18'50	behind sun begin	12015 Sep 02 10:13	21° m) 26'49	
desc. node	12014 Oct 18 09:26	29°M26'23		behind sun end	12015 Sep 02 21:11	22° m 23'11	
	12014 Oct 19 00:49	0° ∡ ¹			12015 Sep 06 13:05	0∘ ত	
retrograde	12014 Oct 30 02:37	4° ∡ ¹45'38		evening rise	12015 Sep 10 06:05	7° ≏ 45'41	
evening set	12014 Nov 02 12:26	4° ₹ 20'00			12015 Sep 22 04:08	0°M,	
min. Earth dist.	12014 Nov 10 12:51	0° ₹ 46'01	0.54752 AU	evening max el	12015 Sep 29 02:30	8°M48'13	20°47'20
inferior conj	12014 Nov 11 06:09	0° ₹ 21'39		desc. node	12015 Oct 05 06:48	13°M17'45	
minimum elong	12014 Nov 11 01:26	0° ∡ 728′18	5°42'31	retrograde	12015 Oct 10 13:30	14°M29'27	
morning rise	12014 Nov 11 21:32 12014 Nov 19 15:49	30°RM 26°M34'23		evening set inferior conj	12015 Oct 12 20:26 12015 Oct 21 21:56	14°M16'49 10°M22'06	1012102
direct	12014 Nov 19 13:49 12014 Nov 23 00:11	26°M09'13		minimum elong	12015 Oct 21 21:30 12015 Oct 21 12:00	10°M36'17	4°40'01
direct	12014 Nov 23 00:11 12014 Dec 02 19:16	20 11 c 09 13		min. Earth dist.	12015 Oct 21 12:00 12015 Oct 22 20:06	9°M50'27	0.54619 AU
morning max el	12014 Dec 02 19:10 12014 Dec 04 21:07	1° × 747'42	21°27'37	morning rise	12015 Oct 22 20:00 12015 Oct 30 03:33	6°M26'11	0.54019 AU
asc. node	12014 Dec 12 03:38	10° x 36'16	21 2/3/	direct	12015 Nov 03 08:25	5°M48'15	
use. Houe	12014 Dec 22 23:41	0° 궁		morning max el	12015 Nov 16 11:32	12°ML09'01	23°11'51
morning set	12014 Dec 25 03:38	[°] ਰ28'27		asc. node	12015 Nov 29 00:35	28°M44'10	23 1101
					12015 Nov 29 18:23	0° ∡ 7	
superior conj	12015 Jan 01 09:07	19° る 41'25	1°28'25	morning set	12015 Dec 09 15:06	19° ∡ 15'33	
minimum elong	12015 Jan 01 11:08	19° ට 51'54	1°29'04	Č	12015 Dec 14 14:35	ರ°0	
max. Earth dist.	12015 Jan 05 19:46	28° පි 45'30	1.35018 AU				
	12015 Jan 06 10:46	0° ≈		superior conj	12015 Dec 16 13:21	4° る 12'35	1°36'49
evening rise	12015 Jan 09 23:13	6° ≈ 48'49		minimum elong	12015 Dec 16 14:16	4° る 17'33	1°37'37
desc. node	12015 Jan 14 08:07	14° ≈ 50'47		max. Earth dist.	12015 Dec 19 14:12	10°る40'05	1.33389 AU
	12015 Jan 23 08:59	0° ∀		evening rise	12015 Dec 24 08:44	20° る 24'49	
evening max el	12015 Feb 14 05:20	28°) 31′57	26°37'57		12015 Dec 29 09:11	0° ≈	
	12015 Feb 15 19:05	0° Y		desc. node	12016 Jan 01 04:57	5° ≈ 04'54	
retrograde	12015 Feb 27 07:16	5° Y 53'36			12016 Jan 17 08:15	0° ∀	
evening set	12015 Mar 05 16:49	3° Y 21'14		evening max el	12016 Jan 27 18:44	12°) €03'37	27°18'48
	12015 Mar 09 02:30	30° ₹ ₩		retrograde	12016 Feb 10 07:56	19° ∺ 28'35	

	12016 Feb 17 02:05	1.00 1.7102			12017 I 22 01-20	2° ¥ 28'37	
evening set		16°) 57'03 13°) 22'25	0.64746.411	retrograde	12017 Jan 23 01:20		
min. Earth dist.	12016 Feb 20 23:02			evening set	12017 Jan 30 00:20	0°) €05'05	
inferior conj	12016 Feb 23 08:41	10°) 45'47			12017 Jan 30 03:17	30°R≈	
minimum elong	12016 Feb 23 09:37	10°) 43′14	0°30'33	min. Earth dist.	12017 Feb 02 18:19	26° ≈ 59'15	0.62857 AU
asc. node	12016 Feb 24 22:53	9° ∺ 04'06		inferior conj	12017 Feb 05 14:26	24° ≈ 13'39	
morning rise	12016 Feb 29 18:55	5° ¥ 18'37		minimum elong	12017 Feb 05 17:52	24° ≈ 05'16	1°41'11
direct	12016 Mar 03 09:17	4°) 43′25		asc. node	12017 Feb 10 20:13	19° ≈ 52'11	
morning max el	12016 Mar 09 18:15	8° ∺ 02′28	17°54'31	morning rise	12017 Feb 12 13:48	19° ≈ 02'46	
	12016 Mar 24 18:13	0 ° Υ		direct	12017 Feb 14 21:09	18° ≈ 37'52	
morning set	12016 Mar 27 04:46	4° Υ 03'31		morning max el	12017 Feb 21 11:53	22° ≈ 00'36	17°46'40
desc. node	12016 Mar 29 06:20	7° Ƴ 29'21		-	12017 Feb 27 16:23	0° ₩	
				morning set	12017 Mar 09 13:53	16° ¥ 40′32	
superior conj	12016 Apr 10 01:39	26° Ƴ 42'09	-1°21'42	desc. node	12017 Mar 16 02:55	28°) €00'38	
minimum elong	12016 Apr 09 17:14				12017 Mar 17 06:56	0° Υ	
minimum ciong	12016 Apr 12 03:28	0°8	1 21 00		12017 11111 17 00.50	0 1	
max. Earth dist.	12016 Apr 14 06:58	3° B 23'15	1.45359 AU	superior conj	12017 Mar 21 13:26	7° Ƴ 10'19	0°40'48
	•	21° 8 38'04	1.43339 AU			6° Υ 53'12	
evening rise	12016 Apr 26 01:11			minimum elong	12017 Mar 21 09:18		
	12016 May 01 12:40	0°Ⅱ 13°Ⅱ	0.6	max. Earth dist.	12017 Mar 28 01:00	17° Y 44'13	1.44260 AU
greatest brilliancy	12016 May 10 16:46	13° Ⅱ 42'54			12017 Apr 04 20:09	0°8	
evening max el	12016 May 22 10:21	28° I I56'12	19°53'35	evening rise	12017 Apr 05 13:07	1° 8 05'28	
asc. node	12016 May 22 20:10	29° Ⅱ 20'27			12017 Apr 25 03:27	Π °0	
	12016 May 23 13:00	0		evening max el	12017 May 05 09:54	12° ∏ 42'12	20°59'39
retrograde	12016 May 29 22:45	3° © 13'22		asc. node	12017 May 09 17:22	16° Ⅱ 16'56	
evening set	12016 Jun 02 18:39	1° 5 48'18		retrograde	12017 May 13 21:34	17° Ⅱ 39'13	
	12016 Jun 04 18:00	30° Ŗ Ⅱ		evening set	12017 May 18 03:28	15° Ⅱ 57'56	
inferior conj	12016 Jun 08 02:24	25° Ⅱ 49'14	3°15'02	inferior conj	12017 May 23 09:46	9° Ⅱ 46'45	3°08'56
minimum elong	12016 Jun 08 02:23	25° Ⅱ 49'17	3°14'13	minimum elong	12017 May 23 08:47	9° Ⅱ 50'11	3°08'06
min. Earth dist.	12016 Jun 09 02:44	24° Ⅲ 27'21	0.67674 AU	min. Earth dist.	12017 May 23 20:20	9° Ⅱ 10′07	0.68460 AU
morning rise	12016 Jun 13 09:46	19° Ⅲ 28′08		morning rise	12017 May 28 13:53	3° Ⅱ 29'37	
direct	12016 Jun 19 05:11	16° Ⅱ 53'59		direct	12017 Jun 02 20:43	1° Ⅱ 10′23	
desc. node	12016 Jun 25 07:00	19° Ⅱ 05'01		desc. node	12017 Jun 12 04:02	6° Ⅱ 13'29	
morning max el	12016 Jul 01 01:09	23° I I59'39	24°58'55	morning max el	12017 Jun 12 04:02	7° П 29'37	23°30'02
morning max ci	12016 Jul 06 09:50	0° ©	24 36 33	morning max ci	12017 Juli 13 11:17 12017 Jul 01 00:30	0°95	23 30 02
		0°Ω		. ,		27° © 17'58	
	12016 Jul 27 09:12			morning set	12017 Jul 18 10:22		
morning set	12016 Aug 05 22:49	16° Ω 10'52	1.24005.477	F 4 F	12017 Jul 20 00:34	0° U	1 20170 111
max. Earth dist.	12016 Aug 09 12:45	22° Ω 39'43	1.36885 AU	max. Earth dist.	12017 Jul 22 10:24	4° Ω 09'44	1.39179 AU
	12016 Aug 13 10:24	0° m)					
				superior conj	12017 Jul 30 00:47	17° Ω 53′06	
superior conj	12016 Aug 16 03:16	5° Mp 14'45		minimum elong	12017 Jul 30 04:59	18° Ω 12'42	0°59'33
minimum elong	12016 Aug 16 04:55	5° Mg 22'55	0°25'37		12017 Aug 05 09:19	0° m)	
asc. node	12016 Aug 18 20:09	10° m 36'34		asc. node	12017 Aug 05 16:52	0° Mp 36′33	
evening rise	12016 Aug 24 10:35	21° m 54'54		evening rise	12017 Aug 08 07:56	5° m 42'34	
	12016 Aug 28 12:30	0∘ 亚			12017 Aug 22 17:23	0∘ 亚	
evening max el	12016 Sep 10 12:34	19° ≙ 57'48	19°34'48	evening max el	12017 Aug 24 11:25	1° ≏ 54'42	18°43'51
retrograde	12016 Sep 20 07:13	24° ♀ 50'12		retrograde	12017 Sep 01 18:04	6° ₽ 03'49	
desc. node	12016 Sep 21 04:13	24° ≏ 48'00		evening set	12017 Sep 03 16:23	5° ≙ 51'04	
evening set	12016 Sep 22 03:56	24° ₽ 40'22		desc. node	12017 Sep 08 01:40	3° ₽ 59'29	
inferior conj	12016 Sep 30 22:27	20° ♀ 35'39	-3°00'47	inferior conj	12017 Sep 11 18:09	1° ≏ 28'01	-1°09'29
minimum elong	12016 Sep 30 14:35	20° ₽ 48'06		minimum elong	12017 Sep 11 15:17	1° ≏ 33'18	
min. Earth dist.	12016 Oct 03 05:59	19° ≏ 07'57		minimum ciong	12017 Sep 11 13:17	30°R.M)	1 00 25
	12016 Oct 03 03:39 12016 Oct 08 23:13		0.33423 AU	min Forth dist		29° m) 10'36	0.57012 ATT
morning rise		16° Ω 11'49		min. Earth dist.	12017 Sep 14 21:08		0.57013 AU
direct	12016 Oct 14 00:06	15° £ 15'21	24050112	morning rise	12017 Sep 19 10:49	26° m) 26'27	
morning max el	12016 Oct 27 21:58	22° ₾ 12'09	24°59'12	direct	12017 Sep 25 05:35	25° m 04'47	
	12016 Nov 03 19:04	0°M₊			12017 Oct 06 16:20	0∘ ⊽	
asc. node	12016 Nov 14 21:28	17°M31'06		morning max el	12017 Oct 09 12:18	2° ≏ 30'46	26°31'31
	12016 Nov 21 05:29	0° ∡ ¹			12017 Oct 29 03:23	0° M	
morning set	12016 Nov 23 02:51	4° ₰ 00'07		asc. node	12017 Nov 01 18:17	6°M46'57	
				morning set	12017 Nov 07 13:16	18° M ₃37'47	
superior conj	12016 Nov 29 22:06	18° ₹ ′54′00	1°38'49		12017 Nov 12 17:50	0° ∡ ¹	
minimum elong	12016 Nov 29 21:53	18° ∡ 52'49	1°39'36				
max. Earth dist.	12016 Dec 01 16:17	22° ∡ ¹45′05	1.32211 AU	superior conj	12017 Nov 14 09:18	3° ∡ ³39'42	1°34'48
	12016 Dec 05 01:15	ರ°0		minimum elong	12017 Nov 14 08:05	3° ∡ ³32'57	1°35'26
evening rise	12016 Dec 07 04:10	。3 4° 3 25'15		max. Earth dist.	12017 Nov 14 23:32	4° ∡ 758'53	1.31518 AU
desc. node	12016 Dec 18 01:52	4 3 29 13		evening rise	12017 Nov 14 25:52 12017 Nov 21 06:52	18° × 43'25	1.5.15.16.110
3000. Houe	12016 Dec 21 01:53	0° ≈		5,0mmg 1150	12017 Nov 21 00:32 12017 Nov 26 20:39	18 × 43 23	
evening max el	12010 1000 21 01.33	· ~			1201/1101/20/20.39		
	12017 Ian 00 06:00	250~~07!20	2703216	desc node	12017 Dec 04 22:55	1/1° -> 277100	
evening max er	12017 Jan 09 06:00 12017 Jan 15 10:09	25°≈07'30 0°) €	27°32'16	desc. node	12017 Dec 04 22:55 12017 Dec 15 16:51	14°る27'09 0°≈	

evening max el retrograde	12017 Dec 22 12:37 12018 Jan 05 10:43	7°≈30'53 14°≈44'56	27°13'03	desc. node evening max el	12018 Nov 21 20:04 12018 Dec 04 12:07	3°ප16'16 19°ප04'25	26°19'36
evening set	12018 Jan 12 08:23	12° ≈ 37'57		retrograde	12018 Dec 18 10:45	26° ට 10'00	
min. Earth dist.	12018 Jan 16 03:05	9° ≈ 53'26	0.60762 AU	evening set	12018 Dec 24 22:08	24° る 28'35	
inferior conj	12018 Jan 19 06:18	7° ≈ 12'30	-3°01'34	min. Earth dist.	12018 Dec 29 01:35	21° る 52'52	0.58621 AU
minimum elong	12018 Jan 19 12:37	6° ≈ 58'58	2°58'31	inferior conj	12019 Jan 01 04:46	19° る 32'52	-4°19'37
morning rise	12018 Jan 26 19:43	2° ≈ 21'04		minimum elong	12019 Jan 01 13:05	19° る 17'20	4°16'24
direct	12018 Jan 28 22:33	2° ≈ 02'55		morning rise	12019 Jan 09 06:53	15° පි 03'07	
asc. node	12018 Jan 28 17:32	2° ≈ 03'06		direct	12019 Jan 11 09:11	14° පි 48'11	
morning max el	12018 Feb 05 03:18	5° ≈ 39'21	17°57'06	asc. node	12019 Jan 15 14:47	15° ප 52'44	
morning set	12018 Feb 20 17:32	0° ₩ 09'03		morning max el	12019 Jan 19 12:47	18° පි 48'17	18°27'25
	12018 Feb 20 15:33	0° ∀			12019 Jan 27 16:44	0° ≈	
desc. node	12018 Mar 02 23:31	18°) (37′37		morning set	12019 Feb 04 10:15	14° ≈ 13′08	
					12019 Feb 12 17:29	0° ∀	
superior conj	12018 Mar 03 01:50	18°) (47'47					
minimum elong	12018 Mar 03 01:47	18°) (47′33	0°00'31	superior conj	12019 Feb 13 12:00	1°) €25'40	0°33'45
behind sun begin	12018 Mar 02 17:42	18°) 12′11		minimum elong	12019 Feb 13 14:16	1°) 36′05	0°33'52
behind sun end	12018 Mar 03 09:52	19°) 22′50		desc. node	12019 Feb 17 20:09	9°) 16′57	1 40505 177
n d r	12018 Mar 09 15:37	0° Υ	1 40570 411	max. Earth dist.	12019 Feb 20 23:14	14°) (45'11	1.40505 AU
max. Earth dist.	12018 Mar 10 14:32	1° Y 34'52	1.42578 AU	evening rise	12019 Feb 25 07:13	22°) 04'10	
evening rise	12018 Mar 16 12:15	11° Y 07'39 0° ႘			12019 Mar 02 04:43	0° ∀	
avanina may al	12018 Mar 28 21:28	26° 8 28'42	22915120	arranina marral	12019 Mar 22 22:19 12019 Mar 31 19:10	10° 8 18'00	23°36'16
evening max el	12018 Apr 18 04:12 12018 Apr 22 05:28	20 O 2842	22 13 39	evening max el retrograde	12019 Mar 31 19:10 12019 Apr 11 14:00	16° 8 39'20	23 30 10
asc. node	12018 Apr 26 14:40	0 H 2°H02'48		asc. node	12019 Apr 11 14:00 12019 Apr 13 12:00	16° 8 22'16	
retrograde	12018 Apr 27 19:08	2° I 102'48		evening set	12019 Apr 16 18:11	14° 8 28'57	
evening set	12018 May 02 11:50	0° I 12′50		min. Earth dist.	12019 Apr 10 18:11 12019 Apr 21 13:23	8° 8 51'47	0.68644 AU
evening set	12018 May 02 17:47	30°R 8		inferior conj	12019 Apr 21 13:23 12019 Apr 22 04:07	8° 8 01'14	2°25'29
inferior conj	12018 May 07 18:59	23° 8 51'48	2°52'11	minimum elong	12019 Apr 22 01:59	8° 8 08'32	
minimum elong	12018 May 07 17:16	23° 8 57'50	2°51'15	morning rise	12019 Apr 27 09:46	1° 8 56'25	2 2130
min. Earth dist.	12018 May 07 16:37	24° 8 00'04	0.68778 AU	direct	12019 May 01 14:26	0° 8 17'30	
morning rise	12018 May 12 22:33	17° 8 40'11	0.00770110	morning max el	12019 May 09 17:57	4° 8 56'09	20°41'11
direct	12018 May 17 16:10	15° 8 40'10		desc. node	12019 May 16 21:50	13° 8 23'50	
morning max el	12018 May 26 23:50	21° 8 07'33	22°01'35		12019 May 28 14:45	0°II	
desc. node	12018 May 30 00:59	24° 8 25'27		morning set	12019 Jun 08 06:54	16° Ⅱ 13'02	
	12018 Jun 03 13:43	$\Pi^{\circ}0$		max. Earth dist.	12019 Jun 16 17:04	29° Ⅱ 32'49	1.43423 AU
	12018 Jun 24 06:14	0ಂತಾ			12019 Jun 16 23:48	0ಂತ	
morning set	12018 Jun 28 20:36	7° © 16'45					
max. Earth dist.	12018 Jul 04 10:32	16° 5 24'45	1.41449 AU	superior conj	12019 Jun 23 09:14	10° © 30'30	-1°59'09
				minimum elong	12019 Jun 23 15:36	10° 5 57'09	1°59'31
superior conj	12018 Jul 12 04:09	29°5541'01	-1°32'32		12019 Jul 04 16:50	$0^{\circ}\Omega$	
minimum elong	12018 Jul 12 10:34	0° Ω 09'20	1°32'30	evening rise	12019 Jul 05 13:42	1° Ω 31'57	
	12018 Jul 12 08:27	0 $^{\circ}\Omega$		asc. node	12019 Jul 10 10:31	10° Ω 04'49	
evening rise	12018 Jul 22 18:28	18° Ω 58'31		evening max el	12019 Jul 22 08:08	27° Ω 36'35	18°03'34
asc. node	12018 Jul 23 13:39	20° Ω 27'22			12019 Jul 25 09:42	0° m	
	12018 Jul 28 19:31	0° m		retrograde	12019 Jul 28 21:24	0° m 59'03	
evening max el	12018 Aug 07 19:17	14° m 30'46	18°13'52	evening set	12019 Jul 31 10:32	0° m/28'05	
retrograde	12018 Aug 14 23:44	18° Mp 09'12			12019 Aug 01 10:27	30°R Ω	1020150
evening set	12018 Aug 17 04:47	17° m 49'10	000000	inferior conj	12019 Aug 07 00:33	25° Ω 24'56	1°39'50
inferior conj	12018 Aug 24 11:36	13° Mp 05'40	0°27'01	minimum elong	12019 Aug 07 03:03	25° Ω 18'45	1°38'30
minimum elong	12018 Aug 24 12:30	13° Mp 03'43	0°26'21	min. Earth dist.	12019 Aug 10 02:33	22° Ω 22'40	0.61399 AU
desc. node	12018 Aug 25 23:06	11° Mp 48'41	0.50112.411	desc. node	12019 Aug 12 20:30	20° Ω 01'02	
min. Earth dist.	12018 Aug 27 19:33	10° Mp 14'38	0.59112 AU	morning rise direct	12019 Aug 13 16:58	19° Ω 24'17 17° Ω 07'57	
morning rise direct	12018 Aug 31 16:49 12018 Sep 07 01:14	7° Mp 29'36 5° Mp 39'07		morning max el	12019 Aug 20 08:39 12019 Sep 03 13:51		27°57'36
morning max el	12018 Sep 07 01:14 12018 Sep 21 09:43	-	27°33'32	morning max er	12019 Sep 03 13:31 12019 Sep 08 01:17	0°m)	27 37 30
morning max ci	12018 Oct 04 14:30	ე° <u>ი</u>	21 33 32		12019 Sep 08 01:17 12019 Sep 28 01:27	0∘ ʊ	
asc. node	12018 Oct 04 14:30 12018 Oct 19 15:02	0 = 26° £ 23'15		asc. node	12019 Sep 28 01:27 12019 Oct 06 11:45	0 == 16° £ 14'01	
ase. node	12018 Oct 19 13:02 12018 Oct 21 09:31	0°M		morning set	12019 Oct 06 11:43	10 ⊆ 1401 17° ⊆ 10'33	
morning set	12018 Oct 21 09:31 12018 Oct 22 20:32	3°M02'56		max. Earth dist.	12019 Oct 00 22:44 12019 Oct 12 15:13	29° ≏ 18'26	1.31636 AU
		- 1140±30		undi	12019 Oct 12 13:13	0°M	1000 110
superior conj	12018 Oct 29 20:59	18°M23'11	1°25'05				
minimum elong	12018 Oct 29 19:04	18°M12'26	1°25'26	superior conj	12019 Oct 14 07:20	2°M59'07	1°09'49
max. Earth dist.	12018 Oct 29 08:23	17°ML12'57	1.31321 AU	minimum elong	12019 Oct 14 05:05	2°M46'42	1°09'52
	12018 Nov 04 02:49	0° ∡ ¹		evening rise	12019 Oct 21 00:49	17° M 47'11	
evening rise	12018 Nov 05 14:25	3° ҂ 12'30		-	12019 Oct 26 22:54	0° ∡ ¹	
	12018 Nov 19 18:02	0°ರ		desc. node	12019 Nov 08 17:18	21° ₹ 12'05	

Tranctary Tricin	officia of McTeury	110111 11000	tinough 1210	02 (01), Astrodici	150 10-1 00-2023	17.22,	page 220
evening max el	12019 Nov 16 03:33	29° ∡ ¹47'41	24°56'32	minimum elong	12020 Sep 27 12:21	17° ≏ 10'58	0°49'01
	12019 Nov 16 08:45	ರ∘ರ		_	12020 Oct 03 09:43	0° M	
retrograde	12019 Nov 29 23:03	6° ප 42'46		evening rise	12020 Oct 04 12:11	2°M22'27	
evening set	12019 Dec 05 13:04	5° る 32'58		-	12020 Oct 19 10:39	0° ∡ ¹	
min. Earth dist.	12019 Dec 10 15:27	2° る 49'12	0.56686 AU	desc. node	12020 Oct 25 14:35	7° ∡ 754'36	
inferior conj	12019 Dec 13 07:02	1° ට 06'10	-5°23'28	evening max el	12020 Oct 27 13:59	9° ∡ ¹56'53	23°16'48
minimum elong	12019 Dec 13 14:02	0° る 54'46	5°21'28	retrograde	12020 Nov 09 22:13	16° ∡ ³35′22	
	12019 Dec 15 00:25	30°Ŗ ⋌ ¹		evening set	12020 Nov 14 04:28	15° ∡ 55'57	
morning rise	12019 Dec 21 17:12	26° ₹ ¹58'04		min. Earth dist.	12020 Nov 20 23:38	12° ∡ ¹45'35	0.55249 AU
direct	12019 Dec 24 01:27	26° ∡ ¹42'32		inferior conj	12020 Nov 22 13:30	11° ∡ 750′37	-5°51'48
	12020 Jan 01 02:26	ರ°0		minimum elong	12020 Nov 22 13:51	11° ∡ °50′07	5°51'01
asc. node	12020 Jan 02 11:57	1° る 14'53		morning rise	12020 Dec 01 00:54	7° ∡ 759'37	
morning max el	12020 Jan 02 12:14	1° る 15'32	19°19'30	direct	12020 Dec 03 22:58	7° ∡ ³39'13	
morning set	12020 Jan 19 11:48	28° る 39'58		morning max el	12020 Dec 14 22:20	12° ∡ 52′05	20°34'36
	12020 Jan 20 03:50	0° ≈		asc. node	12020 Dec 19 09:02	17° ∡ 754′26	
					12020 Dec 27 00:08	ರ°0	
superior conj	12020 Jan 27 15:08	14° ≈ 50′10	1°00'55	morning set	12021 Jan 02 19:03	13° る 20'37	
minimum elong	12020 Jan 27 18:04	15° ≈ 04'21	1°01'10				
max. Earth dist.	12020 Feb 03 05:34	27° ≈ 15'42	1.38279 AU	superior conj	12021 Jan 10 06:50	28° る 49'05	1°20'29
desc. node	12020 Feb 04 16:48	29° ≈ 54'35		minimum elong	12021 Jan 10 09:21	29° ප 01'54	1°20'58
	12020 Feb 04 18:01	0° ∀			12021 Jan 10 20:49	0° ≈	
evening rise	12020 Feb 06 23:25	3° ¥ 55'46		max. Earth dist.	12021 Jan 15 13:42	9° ≈ 18′25	1.36138 AU
•	12020 Feb 23 06:52	$0^{\circ}\mathbf{Y}$		evening rise	12021 Jan 19 10:30	16° ≈ 35'29	
evening max el	12020 Mar 13 08:49	24° Y ′09'33	24°55'01	desc. node	12021 Jan 21 13:33	20° ≈ 27'03	
C	12020 Mar 21 00:57	0°B			12021 Jan 27 02:09	0°)	
retrograde	12020 Mar 25 04:50	1° 8 02'42			12021 Feb 16 17:18	0° Y	
C	12020 Mar 29 00:13	30° ₹ Υ		evening max el	12021 Feb 23 22:23	7° Y ′59'42	26°04'39
asc. node	12020 Mar 30 09:22	29° Y '04'20		retrograde	12021 Mar 08 14:46	15° Y 13'39	
evening set	12020 Mar 30 20:56	28° Y '40'48		evening set	12021 Mar 14 18:25	12° Y '43'40	
min. Earth dist.	12020 Apr 04 08:21	23° Y ′39'14	0.68076 AU	asc. node	12021 Mar 17 06:44	10° Y 16′21	
inferior conj	12020 Apr 05 11:14	22° Y 10'34	1°48'58	min. Earth dist.	12021 Mar 18 23:19	8° Υ 17'11	0.67091 AU
minimum elong	12020 Apr 05 09:09	22° Y °17'27	1°48'04	inferior conj	12021 Mar 20 14:23	6° Y 15'54	1°02'30
morning rise	12020 Apr 10 21:37	16° Ƴ 13'57		minimum elong	12021 Mar 20 12:54	6° Y ′20′29	1°01'57
direct	12020 Apr 14 14:03	14° Ƴ 55'57		morning rise	12021 Mar 26 08:06	0° Υ ′29'12	
morning max el	12020 Apr 21 19:35		19°33'48		12021 Mar 27 06:31	30° ₽.) €	
5 5	12020 Apr 30 17:24	0°8		direct	12021 Mar 29 13:20	29°) 30′20	
desc. node	12020 May 02 18:34	2° 8 55'31			12021 Mar 31 21:38	0° Υ	
greatest brilliancy	12020 May 04 11:54	5° 8 26'07	-0.7m	morning max el	12021 Apr 05 04:40	3° Y ′04'35	18°42'01
morning set	12020 May 17 06:55	24° 8 46'32	****	desc. node	12021 Apr 19 15:15	22° Y ′51'45	
	12020 May 20 16:10	0°II			12021 Apr 24 05:24	0°8	
max. Earth dist.	12020 May 29 06:28		1.44873 AU	morning set	12021 Apr 26 19:24	4° 8 02'17	
				max. Earth dist.	12021 May 12 00:40	27° 8 48'56	1.45646 AU
superior conj	12020 Jun 02 14:17	20° Ⅱ 18'59	-2°12'47			_, _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
minimum elong	12020 Jun 02 16:04	20° Ⅲ 26′10		superior conj	12021 May 13 01:05	29° 8 24'27	-2°07'26
	12020 Jun 08 13:49	0ంతె		minimum elong	12021 May 12 19:19	29° 8 01'51	
evening rise	12020 Jun 16 12:31	13°9510'40			12021 May 13 10:10	0°П	
asc. node	12020 Jun 26 07:26	29°522'48		evening rise	12021 May 28 11:20	23° I I48'45	
	12020 Jun 26 16:51	0°Ω			12021 Jun 01 08:04	0°99	
evening max el	12020 Jul 04 22:15	11° Ω 02'02	18°12'00	greatest brilliancy	12021 Jun 04 12:45	5° © 05'57	-0.9m
retrograde	12020 Jul 11 06:45	14° Ω 23'14		asc. node	12021 Jun 13 04:25	18°9514'22	
evening set	12020 Jul 14 04:06	13° Ω 38'43		evening max el	12021 Jun 18 10:35	24°539'03	18°38'22
inferior conj	12020 Jul 20 04:58	8°Ω17'38	2°29'27	retrograde	12021 Jun 24 23:39	28°9512'42	
minimum elong	12020 Jul 20 07:28	8° Ω 10'39		evening set	12021 Jun 28 05:20	27°513'03	
min. Earth dist.	12020 Jul 22 18:49	5° Ω 25'53	0.63587 AU	inferior conj	12021 Jul 03 20:53	21° © 35'53	2°59'23
morning rise	12020 Jul 26 09:14	2° Ω 02'33		minimum elong	12021 Jul 03 22:35	21° © 30'41	2°58'20
desc. node	12020 Jul 29 17:50	0° Ω 05'40		min. Earth dist.	12021 Jul 05 20:13	19° © 11'16	0.65488 AU
	12020 Jul 30 00:01	30°R.55		morning rise	12021 Jul 09 14:56	15°9514'15	
direct	12020 Aug 02 01:20	29° © 28'27		direct	12021 Jul 16 01:49	12°932'31	
	12020 Aug 05 06:19	0°Ω		desc. node	12021 Jul 16 15:06	12°933'36	
morning max el	12020 Aug 15 22:38	7° Ω 30'02	27°43'53	morning max el	12021 Jul 29 09:31	20°524'39	26°57'31
0	12020 Sep 02 05:48	0° my			12021 Aug 06 15:21	0°Ω	
	12020 Sep	0∘ ⊽			12021 Aug 26 08:27	0° mp	
morning set	12020 Sep 19 00:35	ია ღ 255'00		morning set	12021 Nug 20 00:27 12021 Sep 03 02:09	14° Mp 08'19	
asc. node	12020 Sep 19 17:35 12020 Sep 22 08:26	6° ≏ 14'18		max. Earth dist.	12021 Sep 03 02:09 12021 Sep 07 08:26	22° m/31'50	1.33822 AU
max. Earth dist.	12020 Sep 24 16:20		1.32471 AU	asc. node	12021 Sep 07 05:23	26° m 19'09	
					12021 Sep	0∘ ರ	
superior conj	12020 Sep 27 14:24	17° ≏ 22'02	0°49'13			- —	
	очр =/ 11.2-т	—22 02					

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	12023 Jul 05 00:15	0°ಅ			12024 Jun 27 20:25	0°©	
	12023 Jul 03 00:13	0° U		morning set	12024 Jun 27 20:35 12024 Jul 09 22:09	19° © 01'33	
morning set	12023 Jul 24 22:24 12023 Jul 29 21:08	8° Ω 23'26		max. Earth dist.	12024 Jul 14 10:06	26°934'46	1.40171 AU
max. Earth dist.	12023 Jul 29 21:08 12023 Aug 02 12:17	14°Ω48'34	1.37840 AU	max. Earth dist.	12024 Jul 14 10:00 12024 Jul 16 09:43	20 3 3440	1.401/1 AU
max. Lattii dist.	12023 Aug 02 12.17	17 0670 37	1.57040 AC		12024 Jul 10 07.43	0 86	
superior conj	12023 Aug 09 15:02	28° Ω 03'20	-0°39'54	superior conj	12024 Jul 22 05:23	10°Ω21'28	-1°14'00
minimum elong	12023 Aug 09 17:44	28°Ω16'21	0°39'55	minimum elong	12024 Jul 22 10:39	10° Ω 45'27	1°13'54
C	12023 Aug 10 15:12	0° m)		asc. node	12024 Jul 30 19:10	26° Ω 24'23	
asc. node	12023 Aug 13 22:25	6° Mp 27′57		evening rise	12024 Aug 01 00:52	28° Ω 45'47	
evening rise	12023 Aug 18 07:40	15° m 10'54			12024 Aug 01 16:28	0° m)	
	12023 Aug 26 03:09	0∘ ⊽		evening max el	12024 Aug 17 00:53	24° m 32'50	18°28'37
evening max el	12023 Sep 03 21:39	12° ≙ 18'17	19°10'35	retrograde	12024 Aug 24 18:44	28° Mp 26° 43	
retrograde	12023 Sep 13 00:02	16° ≏ 50'42		evening set	12024 Aug 26 19:48	28° m)11'14	
evening set	12023 Sep 14 20:22	16° ≙ 40'15		desc. node	12024 Sep 02 04:14	24° Mp $43'43$	
desc. node	12023 Sep 16 06:47	16° ≙ 18'34		inferior conj	12024 Sep 03 13:25	23° m 39'28	-0°25'50
inferior conj	12023 Sep 23 08:32	12° ≏ 28'49	-2°12'57	minimum elong	12024 Sep 03 12:25	23° m 41'27	0°25'37
minimum elong	12023 Sep 23 02:44	12° ≏ 38'33	2°10'36	min. Earth dist.	12024 Sep 06 20:12	21°M) 05'23	0.57867 AU
min. Earth dist.	12023 Sep 26 02:27	10° ≏ 38'18	0.56015 AU	morning rise	12024 Sep 11 01:34	18° m 22'40	
morning rise	12023 Oct 01 06:17	7° ≏ 49'10		direct	12024 Sep 17 03:04	16° Mp 48'45	
direct	12023 Oct 06 15:19	6° ≙ 42'21		morning max el	12024 Oct 01 10:48	24° m) 24'07	27°02'20
morning max el	12023 Oct 20 17:55	13° ⊆ 53'10	25°41'18		12024 Oct 06 13:51	0∘ ⊽	
	12023 Nov 02 10:59	0°M			12024 Oct 25 14:51	0°M	
asc. node	12023 Nov 09 23:48	13°ML00'08		asc. node	12024 Oct 26 20:35	2°M25'18	
morning set	12023 Nov 17 04:45	27°M35'53		morning set	12024 Oct 31 14:01	12°M08'20	
	12023 Nov 18 07:28	0° ∡ ¹			12024 N 07 11 20	270M 17H1	1021121
	12022 N 22 22.54	120.72200	1927140	superior conj	12024 Nov 07 11:30	27°M17'11	1°31'21
superior conj	12023 Nov 23 23:54		1°37'49	minimum elong	12024 Nov 07 09:57	27°M08'29	1°31'54
minimum elong max. Earth dist.	12023 Nov 23 23:14 12023 Nov 25 05:44	12° х 28'27 15° х 16'56	1°38'34 1.31853 AU	max. Earth dist.	12024 Nov 07 14:10 12024 Nov 08 16:42	27°M32'06 0° <i>₹</i>	1.31371 AU
evening rise	12023 Nov 23 03:44 12023 Dec 01 01:47	13 x 10 30 27° x 49'47	1.51655 AU	evening rise	12024 Nov 08 10.42 12024 Nov 14 06:47	12° ∡ 13'18	
evening rise	12023 Dec 01 01.47 12023 Dec 02 03:00	2/ x ·494/		evening rise	12024 Nov 14 06.47 12024 Nov 23 06:22	12 x ·13 18	
desc. node	12023 Dec 02 03:00 12023 Dec 13 04:14	00 20°る40'28		desc. node	12024 Nov 29 01:20	0 0 9° る 53'14	
dese. Hode	12023 Dec 19 00:47	20° ≈		evening max el	12024 Nov 25 01:20 12024 Dec 14 14:22	29° る 54'23	26°54'35
evening max el	12024 Jan 02 10:13	17°≈50'22	27°28'22	evening max er	12024 Dec 14 14:22	0° ≈	20 54 55
retrograde	12024 Jan 16 07:27	25°≈08'59	27 2022	retrograde	12024 Dec 28 12:48	7°≈04'04	
evening set	12024 Jan 23 06:31	22°≈51'40		evening set	12025 Jan 04 07:20	5°≈07'17	
min. Earth dist.	12024 Jan 27 00:15	19° ≈ 55'45	0.61979 AU	min. Earth dist.	12025 Jan 08 04:39	2° ≈ 28'14	0.59845 AU
inferior conj	12024 Jan 29 23:52	17° ≈ 10'19		inferior conj	12025 Jan 11 08:49	29° る 54'29	-3°35'18
minimum elong	12024 Jan 30 04:31	16° ≈ 59'32	2°13'24	minimum elong	12025 Jan 11 16:12	29° ට 39'31	3°32'02
asc. node	12024 Feb 05 22:48	12° ≈ 12'31		•	12025 Jan 11 06:06	30°Ŗる	
morning rise	12024 Feb 06 05:12	12° ≈ 07'06		morning rise	12025 Jan 19 03:56	25° る 11'42	
direct	12024 Feb 08 10:07	11° ≈ 45'35		direct	12025 Jan 21 06:01	24° පි 55'15	
morning max el	12024 Feb 15 05:57	15° ≈ 13'21	17°48'43	asc. node	12025 Jan 22 20:06	25° ට 05'08	
	12024 Feb 25 12:50	0° ∀		morning max el	12025 Jan 28 19:16	28° る 40'33	18°07'24
morning set	12024 Mar 02 00:29	9°) 40′14			12025 Jan 30 01:28	0° ≈	
desc. node	12024 Mar 10 05:06	24° ∺ 06'37		morning set	12025 Feb 13 10:20	23° ≈ 26′08	
					12025 Feb 16 22:41	0° ∀	
superior conj	12024 Mar 13 06:20	29° ∺ 19'58					
minimum elong	12024 Mar 13 04:07	29°) 10′34	0°22'56	superior conj	12025 Feb 23 04:32	11° 米 24'37	
	12024 Mar 13 15:47	0° Υ		minimum elong	12025 Feb 23 05:42	11° 米 29'49	0°14'52
max. Earth dist.	12024 Mar 20 07:41	11° Υ 01'26	1.43609 AU	behind sun begin	12025 Feb 23 02:54	11° 米 17′18	
evening rise	12024 Mar 27 15:02	22° Y 36′52		behind sun end	12025 Feb 23 08:30	11°) (42'19	
	12024 Apr 01 10:25	0°B		desc. node	12025 Feb 25 01:42	14°) 44'58	
	12024 Apr 22 14:21	0°Ⅱ 5°Ⅲ5.435	21021105	max. Earth dist.	12025 Mar 02 19:38	24°) ₹37'56	1.41741 AU
evening max el	12024 Apr 27 18:59	5° Ⅱ 54'35	21°31'05		12025 Mar 06 01:23	0°Υ 2° 0 0 1127	
asc. node	12024 May 03 19:54	10° Ⅱ 29'27		evening rise	12025 Mar 07 22:05	3° Y ′01′27	
retrograde	12024 May 06 17:56	11° Ⅱ 09'47 9° Ⅱ 22'00		ovenina mar1	12025 Mar 25 18:48	0° 8 19° 8 42'32	22040142
evening set	12024 May 11 04:19	9°П22'00 3°П06'34	3°03'04	evening max el	12025 Apr 10 11:45	25° 8 40'32	ZZ 49°4Z
inferior conj minimum elong	12024 May 16 10:45 12024 May 16 09:25	3° Д 106'34	3°03'04 3°02'11	retrograde asc. node	12025 Apr 20 14:23 12025 Apr 20 17:14	25° 8 40'32	
min. Earth dist.	12024 May 16 09:23 12024 May 16 15:49	2° П 48'57	0.68659 AU	evening set	12025 Apr 20 17:14 12025 Apr 25 12:01	23° 8 37'43	
mm. Darm dist.	12024 May 18 17:44	30°R 8	3.00037 AU	inferior conj	12025 Apr 23 12:01 12025 Apr 30 20:10	17° 8 13'37	2°42'03
morning rise	12024 May 18 17.44 12024 May 21 14:18	26° 8 51'35		minimum elong	12025 Apr 30 18:13	17° 8 20'22	2°41'04
direct	12024 May 26 15:39	24° 8 39'52		min. Earth dist.	12025 Apr 30 12:28	17° 8 40'19	0.68786 AU
	12024 Jun 05 01:51	0°II		morning rise	12025 May 06 00:18	11° 8 04'59	
morning max el	12024 Jun 05 16:45	0° П 36'52	22°51'42	direct	12025 May 10 12:26	9° 8 13'49	
desc. node	12024 Jun 06 06:25	1° Ⅱ 11'46		morning max el	12025 May 19 07:19	14° 8 18'54	21°25'59
				-	-		

	1000534 04 00 10	100145100			1000()/ 00 0/00	2000012146	20010142
desc. node	12025 May 24 03:18	19° 8 45'02		morning max el	12026 May 02 04:38	28° Y 12'46	20°10'42
	12025 May 31 20:31	0°II			12026 May 03 21:33	0°8	
morning set	12025 Jun 19 21:26	28° Ⅲ 31'17		desc. node	12026 May 11 00:05	8° 8 58'41	
	12025 Jun 20 19:51	0 \circ			12026 May 25 08:15	0°Щ	
max. Earth dist.	12025 Jun 26 13:19	9° © 14'59	1.42346 AU	morning set	12026 May 30 00:54	7° Ⅱ 10'54	
				max. Earth dist.	12026 Jun 08 23:05	22° ∏ 44′26	1.44113 AU
superior conj	12025 Jul 03 23:44	21° © 45'34			12026 Jun 13 11:07	0	
minimum elong	12025 Jul 04 06:33	22° © 15'00	1°45'04			_	
	12025 Jul 08 16:45	0 \circ Ω		superior conj	12026 Jun 14 18:23	2° 5 07'46	
evening rise	12025 Jul 15 05:30	11° Ω 45′23		minimum elong	12026 Jun 14 23:26	2° 5 28'29	2°07'33
asc. node	12025 Jul 17 15:59	16° Ω 10′21		evening rise	12026 Jun 27 16:39	23° © 56'57	
	12025 Jul 25 18:03	0° ™			12026 Jul 01 04:52	0 $^{\circ}\Omega$	
evening max el	12025 Jul 31 11:19	7° m 22'47	18°07'06	asc. node	12026 Jul 04 12:52	5° Ω 40'15	
retrograde	12025 Aug 07 07:56	10° m 52'45		evening max el	12026 Jul 15 01:02	20° Ω 37'27	18°04'53
evening set	12025 Aug 09 16:25	10° Mp 28'23		retrograde	12026 Jul 21 11:15	23° Ω 58′05	
inferior conj	12025 Aug 16 15:38	5° Mg 35'55	1°00'56	evening set	12026 Jul 24 03:46	23° Ω 21'43	
minimum elong	12025 Aug 16 17:27	5° Mp 31'44	0°59'51	inferior conj	12026 Jul 30 11:42	18° Ω 10′36	
min. Earth dist.	12025 Aug 19 21:54	2°M 37'36	0.60079 AU	minimum elong	12026 Jul 30 14:20	18° Ω 03'41	2°02'10
desc. node	12025 Aug 20 01:39	2°m/29'29		min. Earth dist.	12026 Aug 02 08:58	15° Ω 10′18	0.62348 AU
	12025 Aug 23 07:55	30°R Ω		morning rise	12026 Aug 05 22:42	12° Ω 02'19	
morning rise	12025 Aug 23 15:26	29° Ω 48'09		desc. node	12026 Aug 06 23:02	11° Ω 21'34	
direct	12025 Aug 30 03:40	27° Ω 46'19		direct	12026 Aug 12 15:08	9° Ω 37'20	
	12025 Sep 06 09:11	0° ™		morning max el	12026 Aug 26 18:01	17° Ω 39'35	27°56'15
morning max el	12025 Sep 13 11:21	5° m 39'11	27°48'44		12026 Sep 06 01:21	0° m ∕	
	12025 Oct 01 16:11	0∘ ⊽			12026 Sep 24 11:20	0∘ ⊽	
asc. node	12025 Oct 13 17:18	22° ഫ 08'32		morning set	12026 Sep 29 18:44	10° ≏ 25'09	
morning set	12025 Oct 15 19:23	26° ≏ 26'47		asc. node	12026 Sep 30 13:59	12° ≏ 03'43	
	12025 Oct 17 11:41	0° M		max. Earth dist.	12026 Oct 05 03:43	21° ≏ 43'50	1.31926 AU
max. Earth dist.	12025 Oct 21 22:50	9° ጤ 44'47	1.31393 AU				
				superior conj	12026 Oct 07 07:58	26° ≏ 28'31	1°01'43
superior conj	12025 Oct 22 22:50	11° M 57'59	1°19'16	minimum elong	12026 Oct 07 05:44	26° ≙ 16'17	1°01'39
minimum elong	12025 Oct 22 20:42	11° M 46'11	1°19'30		12026 Oct 08 22:27	0° M	
evening rise	12025 Oct 29 15:48	26°M45'29		evening rise	12026 Oct 14 02:47	11°M20'25	
	12025 Oct 31 04:18	0° ∡ ¹			12026 Oct 23 11:27	0° ∡	
desc. node	12025 Nov 15 22:31	28° ∡ ′21'51		desc. node	12026 Nov 02 19:46	15° ∡ ′49′00	
	12025 Nov 17 01:53	್ರಂತ		evening max el	12026 Nov 07 22:32	-	24°15'02
evening max el	12025 Nov 26 10:18	11° る 05'19	25°47'18	retrograde	12026 Nov 21 14:47	28° ₹ 19'26	
retrograde	12025 Dec 10 07:44	18° ろ 06'30		evening set	12026 Nov 26 16:17	27° ₹ 23'02	
evening set	12025 Dec 16 11:48	16°る37'49	0.555.00 444	min. Earth dist.	12026 Dec 02 09:39	24° ₹ 30'08	0.55992 AU
min. Earth dist.	12025 Dec 20 22:49		0.57760 AU	inferior conj	12026 Dec 04 16:12	23° х 06'14	
inferior conj	12025 Dec 23 22:51	11°る55'13		minimum elong	12026 Dec 04 21:00	22° х 58'49	5°39'5/
minimum elong	12025 Dec 24 07:12	11°る40'33	4°46'40	morning rise	12026 Dec 13 03:47	19° ∡ 06'47	
morning rise	12026 Jan 01 05:11	7°る35'03		direct	12026 Dec 15 16:49	18° х 49'53	10040147
direct	12026 Jan 03 09:16	7° る 20'16		morning max el	12026 Dec 25 19:02	23° 🗷 39'06	19°48'47
asc. node	12026 Jan 09 17:17	9° る 35'20	10046150	asc. node	12026 Dec 27 14:22	25° ∡ '31'52	
morning max el	12026 Jan 12 00:55	11° る 32'46	18°46'50		12026 Dec 31 02:30	0°궁	
	12026 Jan 24 07:20	0°≈		morning set	12027 Jan 12 11:30	22°る14'15	
morning set	12026 Jan 28 07:15	7° ≈ 41'07			12027 Jan 16 07:06	0° ≈	
superior conj	12026 Feb 05 22:31	24° ≈ 24'07	0°46'12	superior conj	12027 Jan 20 07:30	8° ≈ 04'37	1°10'08
minimum elong	12026 Feb 06 01:13	24°≈36'52	0°46'21	minimum elong	12027 Jan 20 10:20	8°≈18'43	1°10'08 1°10'27
minimum ciong	12026 Feb 08 01:13	24 ≈30 32 0° H	0 40 21	max. Earth dist.	12027 Jan 26 09:16	19°≈46'24	1.37337 AU
desc. node	12026 Feb	5° ∺ 23'55		desc. node	12027 Jan 29 19:02	19 ≈40 24 25°≈59'50	1.37337 AU
max. Earth dist.	12026 Feb 11 22:20 12026 Feb 13 03:11	7°) € 31'40	1.39566 AU		12027 Jan 30 02:45	25 ≈3930 26°≈34'17	
evening rise	12026 Feb 17 02:10	14° H 21'27	1.39300 AU	evening rise	12027 Jah 30 02:43 12027 Feb 01 01:24	20 ≈ 3417 0°) €	
evening rise	12026 Feb 17 02.10 12026 Feb 26 18:39	14 γ (2127 0° γ			12027 Feb 01 01:24 12027 Feb 20 06:31	0°Υ	
	12026 Mar 20 17:55	0°8		evening max el	12027 Feb 20 00:31 12027 Mar 06 15:09	17° Υ 23'39	25°26'09
evening max el	12026 Mar 24 01:48	3° 8 32'22	24°10'17	retrograde	12027 Mar 18 20:45	24° Y 27'57	45 40 07
retrograde	12026 Mar 24 01:48 12026 Apr 04 07:40	10° 8 08'31	4 10 1 /	evening set	12027 Mar 18 20:43 12027 Mar 24 17:48	24° \ \ \ \ 2757 \ 22° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
asc. node	12026 Apr 04 07:40 12026 Apr 07 14:35	9° 8 19'10		asc. node	12027 Mar 24 17:48 12027 Mar 25 11:55	21° Y 21'20	
evening set	12026 Apr 07 14.33 12026 Apr 09 17:02	7° 8 52'35		min. Earth dist.	12027 Mar 29 02:13	17° Y 15'23	0.67702 AU
min. Earth dist.	12026 Apr 09 17.02 12026 Apr 14 08:38	2° 8 30'51	0.68461 AU	inferior conj	12027 Mar 30 10:20	17 1 13 23 15° Y 31'47	1°30'31
inferior conj	12026 Apr 14 08:38 12026 Apr 15 04:39	1° 8 23'10	0.08461 AU 2°11'11	minimum elong	12027 Mar 30 10:20 12027 Mar 30 08:26	15° Y 31° Y 37° 56	1°29'43
minimum elong	12026 Apr 15 04:39 12026 Apr 15 02:29	1° 8 30'30	2°10'12	morning rise	12027 Mai 30 08.26 12027 Apr 04 23:32	9° Υ 39'11	1 4743
mmmum ciong	12026 Apr 16 05:28	1 3 3030	2 10 12	direct	12027 Apr 04 23.32 12027 Apr 08 10:57	9 γ 3911 8° γ 29'48	
morning rise	12026 Apr 10 03.28 12026 Apr 20 12:01	30 κ 1 25° Υ 21'54		morning max el	12027 Apr 08 10.37 12027 Apr 15 09:41	8 1 29 48 12° Υ 17'38	19°09'47
direct	12026 Apr 24 11:19	23° Y 52'13		desc. node	12027 Apr 13 09:41 12027 Apr 27 20:48	28° Y '42'04	17 0771
anoct	12020 Apr 24 11.19	4J J4 13		desc. Houc	1202 Apr 2 20.40	20 174UH	

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greatest brilliancy	12027 Apr 28 09:21	29° Y 28'54	-0.7m	morning rise	12028 Mar 19 08:43	23°) €51'52	
	12027 Apr 28 17:39	0°8		direct	12028 Mar 22 09:31	23°) €00'16	10005100
morning set	12027 May 09 03:37	15° 8 55'24		morning max el	12028 Mar 28 21:20	26°) €27'54	18°25'03
P. d. P.	12027 May 18 05:21	0°П	1 45005 477		12028 Apr 01 00:52	0°Υ	
max. Earth dist.	12027 May 22 14:27	6°Щ51'11	1.45287 AU	desc. node	12028 Apr 13 17:27	18° Y 46'31	
	12027 14 25 14 20	110 T 25101	2012102	morning set	12028 Apr 18 02:49	25° Y 43'44	
superior conj	12027 May 25 14:30	11° Ⅱ 35'01			12028 Apr 20 19:32	0°B	
minimum elong	12027 May 25 13:05	11° Ⅱ 29'26	2°13'48		12020 14 02 22 00	200	1050100
	12027 Jun 06 01:44	0.20		superior conj	12028 May 03 22:00	20° 8 35'11	
evening rise	12027 Jun 09 05:35	5°9510'26		minimum elong	12028 May 03 13:52	20° 8 03'23	
asc. node	12027 Jun 21 09:49	24°9548'14		max. Earth dist.	12028 May 04 09:28	•	1.45752 AU
	12027 Jun 25 01:29	0° Ω	10021102		12028 May 09 22:36	0°П	
evening max el	12027 Jun 28 14:44	4°Ω08'49	18°21'03	evening rise	12028 May 19 18:13	15° Ⅲ 23'57	
retrograde	12027 Jul 05 00:13	7° Ω 33'46			12028 May 29 01:31	0.22 0.22	0.0
evening set	12027 Jul 08 01:00	6° Ω 43'09	2014117	greatest brilliancy	12028 May 29 08:51	0°528'21	-0.8m
inferior conj	12027 Jul 13 21:29	1° Ω 15'15		asc. node	12028 Jun 07 06:51	13°526'17	
minimum elong	12027 Jul 13 23:42	1° Ω 08'47	2°43'06	evening max el	12028 Jun 11 01:40	17° © 49'30	18°54'48
	12027 Jul 14 23:12	30°ષ્દ્		retrograde	12028 Jun 17 19:10	21° © 31'57	
min. Earth dist.	12027 Jul 16 05:24	28° © 33'00	0.64441 AU	evening set	12028 Jun 21 04:33	20° © 25'35	
morning rise	12027 Jul 19 21:06	24° © 56'22		inferior conj	12028 Jun 26 17:15	14°9542'21	3°06'59
desc. node	12027 Jul 24 20:20	22° 5 26'43		minimum elong	12028 Jun 26 18:30	14° © 38'24	3°06'02
direct	12027 Jul 26 11:38	22° © 17'24		min. Earth dist.	12028 Jun 28 10:21	12° © 32'45	0.66192 AU
	12027 Aug 08 21:04	0 $^{\circ}\Omega$		morning rise	12028 Jul 02 07:46	8° © 19'57	
morning max el	12027 Aug 09 04:01	0° Ω 17'24	27°27'33	direct	12028 Jul 08 15:20	5° © 37'46	
	12027 Aug 31 01:56	0° m y		desc. node	12028 Jul 10 17:34	5° © 53'21	
morning set	12027 Sep 13 09:34	23° m 57'04		morning max el	12028 Jul 21 14:50	13° 5 21'06	26°29'42
	12027 Sep 16 10:02	0∘ ত			12028 Aug 04 01:46	$0^{\circ}\Omega$	
asc. node	12027 Sep 17 10:38	2° ჲ 06'16			12028 Aug 22 18:36	0° m y	
max. Earth dist.	12027 Sep 18 01:01	3° ≏ 20'41	1.32982 AU	morning set	12028 Aug 26 12:45	6° ™ 54'38	
				max. Earth dist.	12028 Aug 30 12:25	14° m 35'27	1.34547 AU
superior conj	12027 Sep 21 12:56	10° ≙ 43'23	0°38'55	asc. node	12028 Sep 03 07:19	22° Mp 12'12	
minimum elong	12027 Sep 21 11:10	10° ≙ 33'56	0°38'39				
evening rise	12027 Sep 28 13:55	25° ♀ 53'15		superior conj	12028 Sep 04 11:21	24° Mp 36'23	0°11'15
	12027 Sep 30 12:43	0° M		minimum elong	12028 Sep 04 10:45	24° Mp 33'16	0°10'58
	12027 Oct 18 20:57	0° ∡ ¹		behind sun begin	12028 Sep 04 06:25	24° m/ 10'55	
evening max el	12027 Oct 20 09:14	1° ∡ ′33′09	22°33'40	behind sun end	12028 Sep 04 15:05	24° m 55'38	
desc. node	12027 Oct 20 17:06	1° ∡ 52'07			12028 Sep 07 01:29	0∘ ⊽	
retrograde	12027 Nov 02 09:13	8° х ⁷ 00'36		evening rise	12028 Sep 11 23:17	10° ≏ 18'58	
evening set	12027 Nov 06 00:10	7° ∡ ³31'52		Č	12028 Sep 22 05:48	0° M	
min. Earth dist.	12027 Nov 13 16:59		0.54852 AU	evening max el	12028 Oct 01 03:45	11°M54'04	20°59'57
inferior conj	12027 Nov 14 15:47	3° ∡ ³32'11		desc. node	12028 Oct 06 14:29	16°M03'36	
minimum elong	12027 Nov 14 12:21	3° ∡ ³37'03		retrograde	12028 Oct 12 20:17	17° M 42'21	
mmmum viong	12027 Nov 22 02:58	30°RML	2 .0 .0	evening set	12028 Oct 15 06:24	17°M28'28	
morning rise	12027 Nov 23 01:58	29°M44'22		inferior conj	12028 Oct 24 07:36	13°M34'02	-4°55'36
direct	12027 Nov 26 07:32	29°M20'34		minimum elong	12028 Oct 23 21:58	13°M47'40	4°52'50
	12027 Nov 30 08:18	0° ⊼		min. Earth dist.	12028 Oct 24 23:54	13°M10'58	0.54579 AU
morning max el	12027 Dec 07 23:05	4° х 52'36	21°13'17	morning rise	12028 Nov 01 13:51	9°M40'58	0.0 .075 110
asc. node	12027 Dec 14 11:24	12° ∡ ³38'31		direct	12028 Nov 05 15:44	9°M05'17	
	12027 Dec 24 10:39	0°ප		morning max el	12028 Nov 18 14:52	15°M19'38	22°55'41
morning set	12027 Dec 27 20:20	。3 6° る 57'21			12028 Nov 29 22:43	0° ∡ 7	·•
				asc. node	12028 Nov 30 08:22	0° х 39'43	
superior conj	12028 Jan 04 03:17	22° る 13'56	1°26'34	morning set	12028 Dec 11 07:39	21° х 44'45	
minimum elong	12028 Jan 04 05:27	22° る 25'07		morning out	12028 Dec 15 03:51	ਰੂ°ਰ ਹ°ਰ	
mmmum viong	12028 Jan 07 22:53	0° ≈	1 27 07		12020 200 10 03.01	° C	
max. Earth dist.	12028 Jan 08 19:06	1° ≈ 40'27	1.35296 AU	superior conj	12028 Dec 18 06:41	6° ප 43'09	1°35'58
evening rise	12028 Jan 12 20:43	9° ≈ 31'04	1.55270 AU	minimum elong	12028 Dec 18 07:46		1°36'45
desc. node	12028 Jan 16 15:47	16°≈28'16		max. Earth dist.	12028 Dec 18 07:40 12028 Dec 21 12:31		1.33609 AU
acse. Houc	12028 Jan 24 15:35	10 ≈ 28 10		evening rise	12028 Dec 21 12.31 12028 Dec 26 04:31	13 3 3432 23° る 02'50	1.55007 AU
	12028 Jan 24 13.33 12028 Feb 16 00:15	0°Υ		Croning Hac	12028 Dec 20 04.31 12028 Dec 29 19:30	23 3 02 30 0 ∞	
avaning may al		0° γ 1° Υ 10'58	26°29'58	desc. node		0°≈ 6°≈44'51	
evening max el	12028 Feb 17 04:47	8° Υ 30'57	20 29 30	uesc. Houe	12029 Jan 02 12:39 12029 Jan 17 07:52	6°≈44'51 0°)	
retrograde	12028 Mar 01 04:29	5° Υ 59'09		avanina ma1			27014112
evening set	12028 Mar 07 12:31	2° Υ '03'48		evening max el	12029 Jan 29 18:21	14°) 45′25	21 14 13
asc. node	12028 Mar 11 09:17		0.66520 ATT	retrograde	12029 Feb 12 06:03	22° ★ 10'05	
min. Earth dist.	12028 Mar 11 15:00	1° Υ 47'01	0.66539 AU	evening set	12029 Feb 18 23:11	19°) 37′58	0.65000 411
inferior conj	12028 Mar 13 11:09	29°) 34′01	0°39'45	min. Earth dist.	12029 Feb 22 20:45		0.65009 AU
minimum elong	12028 Mar 13 10:08	29°) ₹37'05	0°39'27	inferior conj	12029 Feb 25 04:44	13° ¥ 24′29	
	12028 Mar 13 02:34	30° ₹ ₩		minimum elong	12029 Feb 25 05:21	13° ¥ 22'47	0 20 30

asc. node	12029 Feb 26 06:39	12° ℋ 13'46		inferior conj	12030 Feb 08 12:15	26° ≈ 55'43	-1°31'42
morning rise	12029 Mar 03 13:09	7° ¥ 55'15		minimum elong	12030 Feb 08 15:16	26° ≈ 48'14	1°29'57
direct	12029 Mar 06 04:48	7° ₩ 18'08		asc. node	12030 Feb 13 04:00	22° ≈ 52′28	
morning max el	12029 Mar 12 13:29	10° ¥ 37'18	17°57'11	morning rise	12030 Feb 15 09:36	21° ≈ 42'22	
S	12029 Mar 26 01:40	$0^{\circ}\Upsilon$		direct	12030 Feb 17 17:50	21° ≈ 16'13	
morning set	12029 Mar 30 06:50	6° Υ 57'18		morning max el	12030 Feb 24 07:13	24°≈37'41	17°46'42
desc. node	12029 Mar 31 14:05	9° Υ 06'14		morning max ci	12030 Feb 28 17:20	0°)	17 40 42
desc. node	12029 Mai 31 14.03	9 1 00 14		. ,			
				morning set	12030 Mar 12 12:38	19°) €24'46	
superior conj	12029 Apr 13 10:28	29° Y ′55'03		desc. node	12030 Mar 18 10:41	29°) 36′16	
minimum elong	12029 Apr 13 01:38	29° Ƴ 19'59	1°26'49		12030 Mar 18 16:16	0° Y	
	12029 Apr 13 11:43	9° 8					
max. Earth dist.	12029 Apr 17 05:42	5° 8 55'08	1.45465 AU	superior conj	12030 Mar 24 18:43	10° Y 13'13	-0°47'06
evening rise	12029 Apr 29 11:39	24° 8 55'26		minimum elong	12030 Mar 24 13:53	9° Ƴ 53'17	0°46'28
C	12029 May 02 19:07	0° Ⅱ		max. Earth dist.	12030 Mar 31 00:05	20° Ƴ 18'38	1.44460 AU
greatest brilliancy	12029 May 13 15:24	16°∏20'28	-0.6m		12030 Apr 06 03:47	0°8	
greatest orimaney	12029 May 23 20:24	0°95	0.0111	evening rise	12030 Apr 08 23:07	4° 8 20'13	
asc. node		1° 5 24'30		evening rise	•	4 O 2013	
	12029 May 25 03:59		10044151		12030 Apr 26 05:40		20040104
evening max el	12029 May 25 07:49	1° © 34'13	19°44'51	evening max el	12030 May 08 08:11	15° Ⅱ 19'59	20°49'04
retrograde	12029 Jun 01 17:15	5° 5 46'11		asc. node	12030 May 12 01:11	18° Ⅱ 30′16	
evening set	12029 Jun 05 11:44	4° © 23'30		retrograde	12030 May 16 16:10	20° Ⅱ 11′00	
	12029 Jun 09 15:31	30°Ŗ Ⅱ		evening set	12030 May 20 20:29	18° Ⅲ 32'07	
inferior conj	12029 Jun 10 19:53	28° Ⅲ 26′15	3°14'57	inferior conj	12030 May 26 02:51	12° Ⅲ 22'31	3°10'36
minimum elong	12029 Jun 10 20:02	28° Ⅱ 25'45	3°14'07	minimum elong	12030 May 26 01:59	12° Ⅱ 25'29	3°09'45
min. Earth dist.	12029 Jun 11 22:18	26° Ⅱ 57'55	0.67514 AU	min. Earth dist.	12030 May 26 15:24	11° Ⅲ 39'05	0.68369 AU
morning rise	12029 Jun 16 03:59	22° I I04'43	0.07011110	morning rise	12030 May 31 07:16	6° Ⅱ 04'34	0.000007110
		19° ∏ 29'05		=		3° ∏ 42'47	
direct	12029 Jun 22 01:05			direct	12030 Jun 05 15:58		
desc. node	12029 Jun 27 14:43	21° Ⅱ 19'15		desc. node	12030 Jun 14 11:46	8° Ⅱ 16'13	
morning max el	12029 Jul 04 01:10	26° ∏ 40'47	25°11'42	morning max el	12030 Jun 16 11:16	10° Ⅱ 09'54	23°43'29
	12029 Jul 07 03:04	0 \circ			12030 Jul 02 04:17	0	
	12029 Jul 28 16:09	$0^{\circ}\Omega$			12030 Jul 21 09:37	$0^{\circ}\Omega$	
morning set	12029 Aug 09 00:13	19° Ω 07'17		morning set	12030 Jul 21 15:17	0° Ω 23'59	
max. Earth dist.	12029 Aug 12 14:39	25° Ω 41'38	1.36556 AU	max. Earth dist.	12030 Jul 25 12:16	7° Ω 05'45	1.38831 AU
	12029 Aug 14 21:34	0° m)					
		- 4		superior conj	12030 Aug 02 00:07	20° Ω 44'04	-0°54'27
superior conj	12029 Aug 19 00:17	7° m 59'20	0°20'26	minimum elong	12030 Aug 02 03:55	21° Ω 01'59	
	Č	8° Mp 05'50		minimum clong	-		0 34 23
minimum elong	12029 Aug 19 01:35	•	0°20'35		12030 Aug 06 20:21	0° Mp	
asc. node	12029 Aug 21 04:00	12°Mp 17'15		asc. node	12030 Aug 08 00:45	2°Mp 18'11	
evening rise	12029 Aug 27 04:38	24° Mp 30′52		evening rise	12030 Aug 11 03:17	8° Mg 22'12	
	12029 Aug 29 22:16	0∘ ⊽			12030 Aug 23 09:40	0∘ ⊽	
evening max el	12029 Sep 13 11:40	22° ≏ 56'07	19°44'15	evening max el	12030 Aug 27 08:48	4° ≏ 46'01	18°50'03
desc. node	12029 Sep 23 11:55	27° ♀ 56'02		retrograde	12030 Sep 04 20:21	9° Ω 00'53	
retrograde	12029 Sep 23 12:25	27° ≏ 56'02		evening set	12030 Sep 06 17:53	8° ≏ 48'55	
evening set	12029 Sep 25 09:39	27° Ω 46'14		desc. node	12030 Sep 10 09:21	7° ≏ 26'01	
inferior conj	12029 Oct 04 06:00	23° Ω 43'32	-3°17'41	inferior conj	12030 Sep 14 22:28	4° ≏ 28'59	-1°25'46
minimum elong	12029 Oct 03 21:29	23° Ω 56'46		minimum elong	12030 Sep 14 18:52	4° Ω 35'29	
•	12029 Oct 06 09:12			_	-		
min. Earth dist.		22° Ω 24'07	0.55245 AU	min. Earth dist.	12030 Sep 17 23:36	2° ≏ 18'01	0.56736 AU
morning rise	12029 Oct 12 07:37	19° £ 24'47			12030 Sep 21 17:53	30°R, Mp	
direct	12029 Oct 17 05:29	18° ≏ 31'39		morning rise	12030 Sep 22 16:33	29° TD 32'56	
morning max el	12029 Oct 31 01:27	25° ≏ 23'31	24°43'44	direct	12030 Sep 28 08:52	28° m 15'13	
	12029 Nov 04 09:06	0°M₊			12030 Oct 05 01:24	0∘ ⊽	
asc. node	12029 Nov 17 05:17	19°M21'15		morning max el	12030 Oct 12 14:53	5° ≙ 37'45	26°19'24
	12029 Nov 22 17:08	0° ∡ 7			12030 Oct 30 10:29	0° M ₊	
morning set	12029 Nov 25 19:30	6° ∡ ³30′05		asc. node	12030 Nov 04 02:08	8° M 32'57	
				morning set	12030 Nov 10 06:14	21°M08'43	
superior coni	12029 Dec 02 14:56	210,722120	1°38'53	morning set		21 11000 1 3	
superior conj		21°×723'30			12030 Nov 14 07:34	υ Χ .	
minimum elong	12029 Dec 02 14:54	21° × ⁷ 23'14					
max. Earth dist.	12029 Dec 04 13:36		1.32358 AU	superior conj	12030 Nov 17 01:54	6° ₹ 08'43	
	12029 Dec 06 14:17	0°る		minimum elong	12030 Nov 17 00:50	6° ∡ 02'44	1°36'27
evening rise	12029 Dec 09 22:41	6° る 59'56		max. Earth dist.	12030 Nov 17 20:07	7° ∡ ¹49'54	1.31587 AU
desc. node	12029 Dec 20 09:37	26° る 42'54		evening rise	12030 Nov 24 00:26	21° ∡ 15'30	
	12029 Dec 22 08:08	0° ≈			12030 Nov 28 07:25	ರ°ರ	
evening max el	12030 Jan 12 05:59	27°≈53'45	27°32'08	desc. node	12030 Dec 07 06:38	16° る 14'54	
C .	12030 Jan 14 14:24	0°) €			12030 Dec 16 11:41	0° ≈	
retrograde	12030 Jan 26 00:37	5°) 15′59		evening max el	12030 Dec 10 11:41 12030 Dec 25 13:25	10° ≈ 23'41	27°18'08
evening set	12030 Feb 01 23:17	2° H 50'34		retrograde	12030 Dec 23 13:23 12031 Jan 08 11:29	10 ≈2341 17°≈39'19	2, 1000
evening set				-			
min D. d. U.	12030 Feb 05 09:27	30°R≈ 20°2 • 40!55	0.62157.433	evening set	12031 Jan 15 09:44	15°≈29'19	0.61077 444
min. Earth dist.	12030 Feb 05 17:29	∠9°≈40′55	0.63157 AU	min. Earth dist.	12031 Jan 19 03:56	12° ≈ 42'13	0.61077 AU

inferior conj	12031 Jan 22 06:27	9° ≈ 59'29	-2°49'29	evening max el	12031 Dec 07 14:16	22° る 05'44	26°29'48
minimum elong	12031 Jan 22 12:20	9°≈46'35	2°46'35	retrograde	12031 Dec 37 13:05	29° る 12'26	20 29 10
morning rise	12031 Jan 29 17:48	5°≈05'02		evening set	12031 Dec 28 02:32	27° る 26'54	
asc. node	12031 Jan 31 01:19	4° ≈ 49'00		min. Earth dist.	12032 Jan 01 04:03	24° る 50'44	0.58930 AU
direct	12031 Jan 31 21:01	4° ≈ 46'09		inferior conj	12032 Jan 04 07:46	22° ප් 26'41	-4°08'19
morning max el	12031 Feb 07 23:14	8° ≈ 20'06	17°54'19	minimum elong	12032 Jan 04 15:56	22° る 11'06	4°05'02
C	12031 Feb 22 01:14	0° ∀		morning rise	12032 Jan 12 08:11	17° る 53'24	
morning set	12031 Feb 23 13:56	2°) 46'44		direct	12032 Jan 14 10:11	17° る 38'14	
desc. node	12031 Mar 05 07:16	20° ¥ 12'29		asc. node	12032 Jan 17 22:34	18° る 23'49	
				morning max el	12032 Jan 22 09:51	21° る 34'22	18°21'31
superior conj	12031 Mar 06 03:33	21°) 40′39	-0°06'35		12032 Jan 28 20:56	0°≈	
minimum elong	12031 Mar 06 03:00	21° ¥ 38′12	0°06'16	morning set	12032 Feb 07 05:02	16° ≈ 46'45	
behind sun begin	12031 Mar 05 19:20	21° ₩ 04'58			12032 Feb 14 04:32	0° ∀	
behind sun end	12031 Mar 06 10:39	22° ₩ 11'21					
	12031 Mar 11 00:53	0° Y		superior conj	12032 Feb 16 10:47	4° ¥ 10′27	0°28'57
max. Earth dist.	12031 Mar 13 14:07	4° Υ 13'39	1.42856 AU	minimum elong	12032 Feb 16 12:48	4°) 19'43	0°29'04
evening rise	12031 Mar 19 19:50	14° Ƴ 15'27		desc. node	12032 Feb 20 03:53	10° ¥ 51'40	
	12031 Mar 30 03:03	0° 8		max. Earth dist.	12032 Feb 23 23:37	17° ¥ 30′57	1.40834 AU
evening max el	12031 Apr 21 03:11	29° 8 06'14	22°03'55	evening rise	12032 Feb 28 11:41	25°) €03'54	
	12031 Apr 22 01:10	$\Pi^{\circ}0$			12032 Mar 02 12:42	0° Y	
asc. node	12031 Apr 28 22:28	4° Ⅱ 27'42			12032 Mar 22 22:12	0° 8	
retrograde	12031 Apr 30 14:01	4° Ⅱ 40'36		evening max el	12032 Apr 02 18:35	12° 8 55'10	23°24'12
evening set	12031 May 05 05:01	2° Ⅱ 46′17		retrograde	12032 Apr 13 09:16	19° 8 10'32	
	12031 May 07 20:20	30° ₹ 8		asc. node	12032 Apr 14 19:46	19° 8 00'54	
inferior conj	12031 May 10 11:54	26° 8 26'36	2°55'24	evening set	12032 Apr 18 11:44	17° 8 02'07	
minimum elong	12031 May 10 10:16	26° 8 32'18	2°54'29	inferior conj	12032 Apr 23 21:09	10° 8 35'18	2°30'10
min. Earth dist.	12031 May 10 11:28	26° 8 28'08	0.68759 AU	minimum elong	12032 Apr 23 19:04	10° 8 42'30	2°29'11
morning rise	12031 May 15 15:22	20° 8 13'57		min. Earth dist.	12032 Apr 23 08:16	11° 8 19'40	0.68699 AU
direct	12031 May 20 10:59	18° 8 10'48		morning rise	12032 Apr 29 02:20	4° 8 29'22	
morning max el	12031 May 29 23:10	23° 8 46'02	22°14'22	direct	12032 May 03 08:57	2° 8 47'11	
desc. node	12031 Jun 01 08:42	26° 8 19'30		morning max el	12032 May 11 16:11	7° 8 32'19	20°52'20
	12031 Jun 04 11:13	Π °0		desc. node	12032 May 18 05:32	15° 8 11'19	
	12031 Jun 25 13:17	0 \circ			12032 May 28 19:55	Π °0	
morning set	12031 Jul 02 05:22	10° © 32'53		morning set	12032 Jun 10 18:34	19° Ⅲ 36′00	
max. Earth dist.	12031 Jul 07 11:26	19° © 11'59	1.41125 AU		12032 Jun 17 08:13	0 \circ	
	12031 Jul 13 18:18	$0^{\circ}\Omega$		max. Earth dist.	12032 Jun 18 16:58	2° © 12'14	1.43162 AU
superior conj	12031 Jul 15 06:28	2° Ω 39'58	-1°27'49	superior conj	12032 Jun 25 14:59	13° © 37'59	-1°55'47
minimum elong	12031 Jul 15 12:37	3°Ω07'25		minimum elong	12032 Jun 25 21:37	14°905'56	
evening rise	12031 Jul 25 15:40	21° Ω 43'09			12032 Jul 05 02:04	$0^{\circ}\Omega$	
asc. node	12031 Jul 25 21:31	22° Ω 10′29		evening rise	12032 Jul 07 13:24	4° Ω 23'01	
	12031 Jul 30 03:08	0° m)		asc. node	12032 Jul 11 18:20	11° Ω 49'53	
evening max el	12031 Aug 10 15:36	17° m) 16'51	18°17'02		12032 Jul 23 20:34	0° ™	
retrograde	12031 Aug 17 23:10	20° m 58'42		evening max el	12032 Jul 24 03:56	0° mp 18'31	18°03'54
evening set	12031 Aug 20 03:07	20° m 39'59		retrograde	12032 Jul 30 18:42	3° m/42'21	
inferior conj	12031 Aug 27 12:43	15° m 59'36	0°13'50	evening set	12032 Aug 02 06:40	3° m 13'08	
minimum elong	12031 Aug 27 13:12	15° m 58'36	0°13'22	-	12032 Aug 07 01:24	30° ₽ Ω	
transit middle	12031 Aug 27 13:12	15° m 58'36	0°13'22	inferior conj	12032 Aug 08 22:57	28° Ω 12'41	1°30'20
transit begin	12031 Aug 27 11:15	16° Mp 02'43		minimum elong	12032 Aug 09 01:20	28° Ω 06′54	1°29'03
transit end	12031 Aug 27 15:09	15° m 54'30		min. Earth dist.	12032 Aug 12 02:16	25° Ω 10'49	0.61059 AU
desc. node	12031 Aug 28 06:47	15° m 21'22		desc. node	12032 Aug 14 04:10	23° Ω 22'57	
min. Earth dist.	12031 Aug 30 20:49	13° m) 12'11	0.58783 AU	morning rise	12032 Aug 15 17:17	22° Ω 15′09	
morning rise	12031 Sep 03 19:47	10°M)28'16		direct	12032 Aug 22 08:21	20° Ω 02'22	
direct	12031 Sep 10 02:41	8° Mp 41'52		morning max el	12032 Sep 05 14:13	28° Ω 00'02	27°56'33
morning max el	12031 Sep 24 11:05	16° Mp 26′26	27°26'37		12032 Sep 07 12:33	O° m y	
	12031 Oct 05 14:32	0∘ ⊽			12032 Sep 28 09:41	0∘ ত	
asc. node	12031 Oct 21 22:54	28° ჲ 06'27		asc. node	12032 Oct 07 19:35	17° ≏ 55'11	
	12031 Oct 22 21:23	0° M		morning set	12032 Oct 08 17:07	19° ≙ 46'06	
morning set	12031 Oct 25 14:05	5°M35'51			12032 Oct 13 12:17	0° M	
max. Earth dist.	12031 Nov 01 04:56	20° M 04'17	1.31314 AU	max. Earth dist.	12032 Oct 14 12:20	2° M 11'47	1.31557 AU
superior conj			1000155		12022 Oct. 16, 00:16	5°M30'00	1°12'30
	12031 Nov 01 13:38	20°M.52'52	1°26'55	Superior com			
	12031 Nov 01 13:38	20°M.52'52	1°26'55 1°27'19	superior conj	12032 Oct 16 00:16		
minimum elong	12031 Nov 01 11:48	20°M42'35	1°26'55 1°27'19	minimum elong	12032 Oct 15 22:02	5° ™ 17'39	1°12'35
minimum elong	12031 Nov 01 11:48 12031 Nov 05 16:09	20°M42'35 0° √			12032 Oct 15 22:02 12032 Oct 22 17:29	5°M17'39 20°M17'28	
	12031 Nov 01 11:48 12031 Nov 05 16:09 12031 Nov 08 07:24	20°M42'35 0°⊀ 5°⊀43'23		minimum elong evening rise	12032 Oct 15 22:02 12032 Oct 22 17:29 12032 Oct 27 09:14	5°M17'39 20°M17'28 0°⊀	
minimum elong	12031 Nov 01 11:48 12031 Nov 05 16:09	20°M42'35 0° √		minimum elong	12032 Oct 15 22:02 12032 Oct 22 17:29	5°M17'39 20°M17'28	

evening max el	12032 Nov 18 06:52	2° る 55'48	25°10'26		12033 Oct 20 10:43	0° ∡ 7	
retrograde	12032 Nov 16 00:52 12032 Dec 02 02:57	9° る 52'18	25 10 20	desc. node	12033 Oct 27 10:45	10°× 10'22	
evening set	12032 Dec 02 02:37	8° る 37'37		evening max el	12033 Oct 27 22:16 12033 Oct 30 17:26	13°×107'18	23°31'57
min. Earth dist.	12032 Dec 37 21:65		0.56951 AU	retrograde	12033 Nov 13 04:01	19° × ⁷ 49'14	20 0107
inferior conj	12032 Dec 15 13:06	4° る 07'03		evening set	12033 Nov 17 15:33	19° х 05'35	
minimum elong	12032 Dec 15 20:38	3° ჳ 54'34		min. Earth dist.	12033 Nov 24 03:29	16° х 00′19	0.55422 AU
morning rise	12032 Dec 23 22:29	29° ₹ '55'50		inferior conj	12033 Nov 25 22:10	14° ∡ ¹57'34	-5°50'43
S	12032 Dec 23 15:16	30°R. ✓		minimum elong	12033 Nov 25 23:48	14° ₹ ′55'09	5°49'53
direct	12032 Dec 26 05:27	29° х 40′36		morning rise	12033 Dec 04 09:50	11° ∡ ¹04'52	
	12032 Dec 28 17:51	0°ჳ		direct	12033 Dec 07 05:24	10° ∡ ¹45'29	
asc. node	12033 Jan 03 19:43	3° る 32'22		morning max el	12033 Dec 17 23:10	15° ∡ ′51'52	20°22'02
morning max el	12033 Jan 04 10:58	4° る 08'00	19°10'17	asc. node	12033 Dec 21 16:47	20° ₹ 00'40	
	12033 Jan 20 15:12	0° ≈			12033 Dec 28 07:08	ರ°ರ	
morning set	12033 Jan 21 05:29	1° ≈ 10'46		morning set	12034 Jan 05 12:01	15° る 49'14	
					12034 Jan 12 09:25	0° ≈	
superior conj	12033 Jan 29 11:41	17° ≈ 28'39	0°57'17				
minimum elong	12033 Jan 29 14:35	17° ≈ 42'38	0°57'29	superior conj	12034 Jan 13 01:45	1° ≈ 22'43	1°17'59
	12033 Feb 05 04:35	0° ∀		minimum elong	12034 Jan 13 04:22	1° ≈ 36′00	1°18'25
max. Earth dist.	12033 Feb 05 06:16	0°) €07'35	1.38616 AU	max. Earth dist.	12034 Jan 18 13:44	12° ≈ 12'25	1.36442 AU
desc. node	12033 Feb 06 00:33	1° ¥ 29'39		evening rise	12034 Jan 22 09:15	19° ≈ 19'48	
evening rise	12033 Feb 09 00:49	6°) 47′25		desc. node	12034 Jan 23 21:17	22° ≈ 02'45	
	12033 Feb 23 11:58	0° Y			12034 Jan 28 10:57	0°)	
evening max el	12033 Mar 16 08:19	26° Ƴ 46'21	24°43'35		12034 Feb 17 14:44	0° Y	
	12033 Mar 19 22:54	0°8		evening max el	12034 Feb 26 21:46	10° Ƴ 36'31	25°55'06
retrograde	12033 Mar 28 00:42	3° 8 35'07		retrograde	12034 Mar 11 11:27	17° Ƴ 48'21	
asc. node	12033 Apr 01 17:06	1° 8 57'40		evening set	12034 Mar 17 13:30	15° Y 19′07	
evening set	12033 Apr 02 15:06	1° 8 14'39		asc. node	12034 Mar 19 14:28	13° Y ′21'42	
	12033 Apr 03 22:35	30° Ŗ ♈		min. Earth dist.	12034 Mar 21 19:14	10° Y 47'36	0.67263 AU
min. Earth dist.	12033 Apr 07 03:34	26° Y 07'55	0.68195 AU	inferior conj	12034 Mar 23 08:32	8° Y ′50′34	1°10'12
inferior conj	12033 Apr 08 04:40	24° Y 44'34	1°55'09	minimum elong	12034 Mar 23 06:56	8° Y 55'37	1°09'35
minimum elong	12033 Apr 08 02:33	24° Y ′51'37	1°54'13	morning rise	12034 Mar 29 01:00	3° Y ′02'24	
morning rise	12033 Apr 13 14:12	18° Y ′46'45		direct	12034 Apr 01 07:48	2°Υ00'54	
direct	12033 Apr 17 08:26	17° Y 25'43		morning max el	12034 Apr 08 00:48	5°Υ38'13	18°48'43
morning max el	12033 Apr 24 16:41	21° Y '30'25	19°42'51	desc. node	12034 Apr 21 23:00	24° Ƴ 31'11	
	12033 May 01 18:26	0° 8			12034 Apr 25 12:17	0°8	
desc. node	12033 May 05 02:18	4° 8 38'19	0.6	morning set	12034 Apr 30 04:11	7° 8 15'03	
greatest brilliancy	12033 May 07 11:19	8° 8 04'29	-0.6m	E d Ed	12034 May 14 18:15	0°П	1 45575 ATT
morning set	12033 May 20 18:47	28° ႘ 09'00 0°Ⅱ		max. Earth dist.	12034 May 14 23:21	0° Ⅱ 19'57	1.45575 AU
max. Earth dist.	12033 May 21 23:37 12033 Jun 01 05:40		1.44698 AU	superior conj	12034 May 16 12:15	2° ∏ 44'28	2900125
max. Earm dist.	12033 Juli 01 03.40	10 Д0020	1.44096 AU	minimum elong	12034 May 16 12:13	2° П 26'01	
superior conj	12033 Jun 05 23:27	23° ∏ 34'44	2011/50	evening rise	12034 May 10 07:32 12034 May 31 18:05	2 H 2001 26° H 57'41	2 1007
minimum elong	12033 Jun 06 02:15	23° II 45'59		evening rise	12034 May 31 18:03	0°95	
minimum clong	12033 Jun 09 22:24	0°95	2 12 30	asc. node	12034 Jun 15 12:13	20°507'06	
evening rise	12033 Jun 19 15:34	16°9510'32		evening max el	12034 Jun 21 06:47	27°9516'44	18°33'19
e vening rise	12033 Jun 27 21:40	0°Ω		evening max er	12034 Jun 24 19:17	0°Ω	10 33 17
asc. node	12033 Jun 28 15:14	1° Ω 11'07		retrograde	12034 Jun 27 18:42	0° Ω 47'51	
evening max el	12033 Jul 07 18:03	13° Ω 41′20	18°09'35	evening set	12034 Jun 30 23:04	29° © 50'37	
retrograde	12033 Jul 14 02:40	17° Ω 01'59		<i>5</i>	12034 Jun 30 16:28	30°R.∞	
evening set	12033 Jul 16 22:46	16° Ω 19'37		inferior conj	12034 Jul 06 15:47	24°9515'45	2°55'56
inferior conj	12033 Jul 23 01:20	11° Ω 00'56	2°23'15	minimum elong	12034 Jul 06 17:38	24°9510'09	2°54'51
minimum elong	12033 Jul 23 03:54			min. Earth dist.	12034 Jul 08 17:21	21°5546'08	0.65226 AU
min. Earth dist.	12033 Jul 25 17:09	8° Ω 06'30	0.63272 AU	morning rise	12034 Jul 12 11:12	17° © 54'30	
morning rise	12033 Jul 29 07:17	4° Ω 47'21		direct	12034 Jul 18 23:05	15° © 13'13	
desc. node	12033 Aug 01 01:30	3° Ω 07′05		desc. node	12034 Jul 18 22:47	15° © 13'13	
direct	12033 Aug 04 23:38	2° Ω 15′27		morning max el	12034 Aug 01 09:23	23°508'06	27°06'10
morning max el	12033 Aug 18 22:32	10° Ω 17'21	27°48'14		12034 Aug 07 11:30	$0^{\circ}\Omega$	
	12033 Sep 03 09:20	0° m			12034 Aug 27 16:58	0° m	
	12033 Sep 20 18:01	0∘ ⊽		morning set	12034 Sep 05 23:31	16° m 52'28	
morning set	12033 Sep 22 13:12	3° ₽ 34'18		max. Earth dist.	12034 Sep 10 08:11	25° Mp 31'28	1.33587 AU
asc. node	12033 Sep 24 16:14	7° ≏ 54'12		asc. node	12034 Sep 11 12:54	27° m 58'25	
max. Earth dist.	12033 Sep 27 14:39	14° ≙ 03'35	1.32315 AU		12034 Sep 12 12:24	0∘ ত	
superior conj	12033 Sep 30 07:55	19° ≙ 54'55	0°52'42	superior conj	12034 Sep 14 10:22	4° ≏ 00'48	0°27'45
minimum elong	12033 Sep 30 05:48	19° ≏ 43'26	0°52'31	minimum elong	12034 Sep 14 09:01	3° ჲ 53'36	0°27'27
3	12033 Oct 04 22:42	0°M		evening rise	12034 Sep 21 15:25	19° ≙ 23'04	
evening rise	12033 Oct 07 04:48	4°M52'49		-	12034 Sep 26 19:52	0° M	

evening max el desc. node retrograde evening set	12034 Oct 12 06:08 12034 Oct 14 19:38 12034 Oct 24 18:35 12034 Oct 27 19:41	23°M13'01 25°M29'24 29°M26'25 29°M05'34	21°52'00	superior conj minimum elong behind sun begin behind sun end	12035 Aug 29 05:07 12035 Aug 29 05:14 12035 Aug 28 23:11 12035 Aug 29 11:17	17° m/41'31 17° m/42'07 17° m/11'26 18° m/12'51	
inferior conj minimum elong	12034 Nov 05 16:45 12034 Nov 05 09:56	25°M09'13 25°M18'47	-5°32'43 5°31'07	asc. node	12035 Aug 29 09:36 12035 Sep 04 04:17	18°Mp04'17 0°Ω	
min. Earth dist.	12034 Nov 05 10:03 12034 Nov 14 01:23	25°M18'36 21°M21'57	0.54622 AU	evening rise	12035 Sep 04 04:17 12035 Sep 05 23:21 12035 Sep 20 21:27	3° £ 43′08 0° ™	
direct morning max el	12034 Nov 17 15:13 12034 Nov 29 21:33	20°M53'55 26°M44'00	21°55'15	evening max el desc, node	12035 Sep 24 06:00 12035 Oct 01 17:02	3°M49'11 8°M43'57	20°25'13
asc. node	12034 Dec 03 00:02 12034 Dec 08 13:48	0° ∡¹ 7° ∡¹ 32'01		retrograde evening set	12035 Oct 05 06:20 12035 Oct 07 08:37	9°M17'26 9°M06'26	
morning set	12034 Dec 20 22:09 12034 Dec 20 15:31	0°る34'52 0°る		inferior conj minimum elong	12035 Oct 16 09:35 12035 Oct 15 23:35	5°M10'10 5°M24'46	-4°17'58 4°14'37
superior conj	12034 Dec 28 01:10	0 S 15° S 41'46	1°31'22	min. Earth dist.	12035 Oct 17 18:03 12035 Oct 24 13:58	4°M22'46 1°M07'56	0.54745 AU
minimum elong	12034 Dec 28 01:10 12034 Dec 28 02:54	15°る50'53	1°31'22 1°32'03	direct	12035 Oct 24 13:38 12035 Oct 29 00:17	0°M25'37	
max. Earth dist.	12035 Jan 01 02:25	24° る 04'05	1.34526 AU	morning max el	12035 Nov 11 10:08	6°M57'36	23°41'58
	12035 Jan 04 02:01	0°≈		asc. node	12035 Nov 25 10:45	25°M51'39	
evening rise desc. node	12035 Jan 05 09:31 12035 Jan 10 18:07	2°≈32'21 12°≈26'46		morning set	12035 Nov 27 18:14 12035 Dec 05 09:53	0° ҂ 15° ҂ 21'44	
dese. Hode	12035 Jan 21 09:27	0° ₩		morning sec	12033 Bec 03 07.33	13 % 21 11	
evening max el	12035 Feb 09 11:17		26°51'31	superior conj	12035 Dec 12 06:55	0° る 16'42	
	12035 Feb 16 19:23	0° Υ		minimum elong	12035 Dec 12 07:31	0°る20'00	1°38'47
retrograde	12035 Feb 22 16:49 12035 Feb 28 01:21	1° Υ 42'52 30° Rℋ		max. Earth dist.	12035 Dec 12 03:50 12035 Dec 14 22:54	0°궁 6°궁00'14	1.33014 AU
evening set	12035 Mar 01 05:07	29° ₩ 09'49		evening rise	12035 Dec 14 22:05	16° ප 15'56	1.33014 AO
min. Earth dist.	12035 Mar 05 05:14	25° ¥ 12'11	0.65930 AU	C	12035 Dec 27 03:44	0° ≈	
asc. node	12035 Mar 06 11:50	23°) 43′36		desc. node	12035 Dec 28 15:01	2° ≈ 36'16	
inferior conj minimum elong	12035 Mar 07 06:36 12035 Mar 07 06:11	22°\(\dagger48'41\) 22°\(\dagger49'55\)	0°15'09 0°15'10	evening max el	12036 Jan 15 23:08 12036 Jan 23 00:12	0° ¥ 7° ¥ 43'57	27025120
transit middle	12035 Mar 07 06:11	22° H 49'55	0°15'10	retrograde	12036 Feb 05 15:48	15° H 09'09	21 23 30
transit begin	12035 Mar 07 05:14	22° ∺ 52'42		evening set	12036 Feb 12 11:41	12°) 38′56	
transit end	12035 Mar 07 07:08	22°) 47′08		min. Earth dist.	12036 Feb 16 07:30	9°) 12'45	0.64249 AU
morning rise	12035 Mar 13 08:32	17° ¥ 12′01		inferior conj	12036 Feb 18 20:18	6°) (32′10	
direct morning max el	12035 Mar 16 05:11 12035 Mar 22 14:50	16° ¥ 27'09 19° ¥ 49'52	18°11'08	minimum elong asc. node	12036 Feb 18 21:51 12036 Feb 21 09:13	6° ¥ 28'04 3° ¥ 58'27	0°48'57
morning max ci	12035 Mar 30 11:52	0° Υ	10 11 00	morning rise	12036 Feb 25 10:01	1° ∺ 09'19	
desc. node	12035 Apr 08 19:40	14° Y 43'00		direct	12036 Feb 27 22:08	0°) €37'28	
morning set	12035 Apr 10 15:31	17° Ƴ 39'46		morning max el	12036 Mar 05 08:03	3°) ₹56'43	17°50'31
	12035 Apr 18 08:18	0° 8		morning set	12036 Mar 22 07:14 12036 Mar 22 15:03	29°) €27'02 0° °	
superior conj	12035 Apr 25 19:44	11° 8 47'56	-1°47'19	desc. node	12036 Mar 22 15:03 12036 Mar 25 16:16	5° Υ 07'37	
minimum elong	12035 Apr 25 10:28	11° 8 11'35					
max. Earth dist.	12035 Apr 27 19:02		1.45715 AU	superior conj	12036 Apr 04 15:24	21° Y 29'48	
	12035 May 07 11:55	0°II		minimum elong	12036 Apr 04 07:58	20°Υ59'55	1°10'08
evening rise greatest brilliancy	12035 May 11 21:29 12035 May 23 15:09	6° Ⅱ 50'21 24° Ⅱ 56'03	-0.7m	max. Earth dist.	12036 Apr 09 14:15 12036 Apr 09 23:32	29° Y 23'24 0° と	1.45118 AU
greatest similarey	12035 May 27 01:10	0°95	0.7111	evening rise	12036 Apr 20 10:22	16° 8 13'43	
asc. node	12035 Jun 02 09:19	8°529'51			12036 Apr 29 12:25	$\Pi^{\circ}0$	
evening max el	12035 Jun 04 15:49	10°959'30	19°14'10	greatest brilliancy	12036 May 05 09:25	8° Ⅱ 40'30	-0.6m
retrograde evening set	12035 Jun 11 15:24 12035 Jun 15 04:27	14°953'36 13°940'30		evening max el asc. node	12036 May 17 19:35 12036 May 19 06:29	24°П45'06 26°П07'39	20°10'39
inferior conj	12035 Jun 13 04:27 12035 Jun 20 14:52	7°951'04	3°12'01	retrograde	12036 May 19 00:29	20 H 07 39 29° H 12'45	
minimum elong	12035 Jun 20 15:38	7°548'31	3°11'07	evening set	12036 May 29 12:32	27° ∏ 43′20	
min. Earth dist.	12035 Jun 22 01:40	5° © 58'05	0.66805 AU	inferior conj	12036 Jun 03 19:38	21° Ⅱ 40′50	
morning rise	12035 Jun 26 02:17	1°528'19		minimum elong	12036 Jun 03 19:20	21° П 41'52 20° П 31'03	3°13'39 0.67938 AU
direct	12035 Jun 28 01:53 12035 Jul 02 05:39	30°RⅡ 28°Ⅱ47'44		min. Earth dist. morning rise	12036 Jun 04 16:09 12036 Jun 09 01:49	20°Щ31°03 15°Щ20'27	0.07938 AU
desc. node	12035 Jul 05 19:59	29° I I33'55		direct	12036 Jun 14 17:53	12° ∏ 49'39	
	12035 Jul 06 18:57	0ංම		desc. node	12036 Jun 21 17:05	15° Ⅱ 41'38	
morning max el	12035 Jul 14 20:15	6°520'22	25°58'22	morning max el	12036 Jun 26 06:08	19° ∏ 43'55	24°34'42
morning set	12035 Aug 02 03:20 12035 Aug 19 20:33	0° Ω 29° Ω 32'15			12036 Jul 05 00:03 12036 Jul 25 06:43	0。 Ư 0。ௐ	
morning set	12035 Aug 19 20.33 12035 Aug 20 02:34	0° m		morning set	12036 Jul 31 23:55	11° Ω 22'35	
max. Earth dist.	12035 Aug 23 15:08	6° m/38'39	1.35352 AU	max. Earth dist.	12036 Aug 04 14:07	17° Ω 46'41	1.37503 AU
					12036 Aug 11 02:43	0° Mp	

superior conj	12036 Aug 11 12:58	0° m 49'33	-0°34'44	minimum elong	12037 Jul 25 10:49	13° Ω 37'29	1°08'49
minimum elong	12036 Aug 11 12:36	1°Mp00'49		asc. node	12037 Jul 23 10:49 12037 Aug 02 03:04	28°Ω06'04	1 00 47
asc. node	12036 Aug 15 06:20	8° Mp 08'12	0 31 10	use. Hode	12037 Aug 03 02:51	0° m)	
evening rise	12036 Aug 20 02:12	17° mp 47'02		evening rise	12037 Aug 03 20:55	1° Mp 26'38	
	12036 Aug 26 09:53	0∘ ʊ		evening max el	12037 Aug 19 21:44	27° m/21'00	18°33'28
evening max el	12036 Sep 05 19:58	15° Ω 12'34	19°18'36		12037 Aug 23 05:57	0∘ ಹ	
retrograde	12036 Sep 15 03:51	19° Ω 51'40		retrograde	12037 Aug 27 19:48	1° £ 19'55	
evening set	12036 Sep 17 00:09	19° Ω 41'31		evening set	12037 Aug 29 19:50	1° £ 05'27	
desc. node	12036 Sep 17 14:27	19° ≙ 34'06		C	12037 Sep 01 15:54	30°R, Mp	
inferior conj	12036 Sep 25 14:42	15° Ω 32'39	-2°29'59	desc. node	12037 Sep 04 11:52	28° m) 14'18	
minimum elong	12036 Sep 25 08:08	15° ≏ 43'26	2°27'21	inferior conj	12037 Sep 06 16:19	26° m/36'38	-0°40'59
min. Earth dist.	12036 Sep 28 05:20	13° ≏ 49'55	0.55792 AU	minimum elong	12037 Sep 06 14:41	26° Mp 39'46	0°40'29
morning rise	12036 Oct 03 13:33	10° ≏ 58'45		min. Earth dist.	12037 Sep 09 22:01	24° Mp 08'05	0.57560 AU
direct	12036 Oct 08 19:55	9° Ω 55'37		morning rise	12037 Sep 14 06:05	21° m 25'07	
morning max el	12036 Oct 22 20:55	17° ≏ 01'39	25°27'01	direct	12037 Sep 20 05:22	19° m 55'33	
	12036 Nov 02 11:43	0° M		morning max el	12037 Oct 04 12:49	27° m 27'35	26°52'19
asc. node	12036 Nov 11 07:38	14°M47'29			12037 Oct 07 00:05	0∘ ⊽	
morning set	12036 Nov 18 21:28	0° ₹ 05'04			12037 Oct 27 00:37	0° M	
	12036 Nov 18 20:32	0°⊀		asc. node	12037 Oct 29 04:26	4°M09'24	
				morning set	12037 Nov 03 07:10	14°MJ39'13	
superior conj	12036 Nov 25 16:35	15° ₰ 00'19	1°38'17				
minimum elong	12036 Nov 25 16:05	14° ₹ 57'31	1°39'04	superior conj	12037 Nov 10 04:03	29°M45'24	1°32'43
max. Earth dist.	12036 Nov 27 02:41	18° ₹ 08'13	1.31968 AU	minimum elong	12037 Nov 10 02:37	29°M37'23	1°33'16
evening rise	12036 Dec 02 19:50	0° る 22'31			12037 Nov 10 06:40	0° ∡ ¹	
	12036 Dec 02 15:29	0°る		max. Earth dist.	12037 Nov 10 10:46	0° ∡ ¹22'52	1.31412 AU
desc. node	12036 Dec 14 12:00	22° る 24'49		evening rise	12037 Nov 17 00:03	14° ∡ ¹44′00	
	12036 Dec 19 04:08	0° ≈			12037 Nov 24 15:24	0°ਰ	
evening max el	12037 Jan 04 10:38	20° ≈ 38'56	27°30'26	desc. node	12037 Dec 01 09:04	11° る 42'52	
retrograde	12037 Jan 18 07:15	27° ≈ 58'18			12037 Dec 14 20:41	0° ≈	
evening set	12037 Jan 25 06:25	25°≈38'43		evening max el	12037 Dec 17 15:39	2° ≈ 49'37	27°01'44
min. Earth dist.	12037 Jan 29 00:11	22°≈39'26		retrograde	12037 Dec 31 13:55	10°≈00'43	
inferior conj	12037 Jan 31 22:38	19°≈53'42		evening set	12038 Jan 07 09:47	8°≈00'12	0.60165.177
minimum elong	12037 Feb 01 02:51	19°≈43'46	2°01'45	min. Earth dist.	12038 Jan 11 06:00	5°≈19'34	0.60165 AU
asc. node	12037 Feb 07 06:32	15°≈06'23		inferior conj	12038 Jan 14 10:02	2°≈43'00	
morning rise	12037 Feb 08 01:51	14°≈47'39		minimum elong	12038 Jan 14 17:03	2°≈28'28	3°20'08
direct	12037 Feb 10 07:35	14°≈25'00	17947122		12038 Jan 17 22:40	30°Rる	
morning max el	12037 Feb 17 01:25 12037 Feb 25 19:38	17°≈50'47 0°) €	17°47'33	morning rise	12038 Jan 22 03:11 12038 Jan 24 05:29	27°る57'09 27°る40'10	
marning gat	12037 Feb 23 19:38 12037 Mar 04 22:09	12° ∺ 20'40		direct	12038 Jan 24 03:29 12038 Jan 25 03:47	27°る4010 27°る43'37	
morning set desc. node	12037 Mar 12 12:53	25° H 41'02		asc. node	12038 Jan 23 03.47 12038 Jan 30 02:26	27 ○ 43 37 0° ≈	
desc. Hode	12037 Mar 12 12:33 12037 Mar 15 01:29	25 χ41 02 0° γ		morning max el	12038 Jan 31 15:31	0 ≈ 1°≈22'04	18°03'24
	12037 Widi 13 01.29	U I		morning set	12038 Feb 16 05:56	26°≈00'55	18 03 24
superior conj	12037 Mar 16 10:01	2° Υ 17'21	-0°29'32	morning set	12038 Feb 18 09:25	0° ∺	
minimum elong	12037 Mar 16 07:08	2°Υ05'15			12030100 10 07.23	0 /	
max. Earth dist.	12037 Mar 23 07:07	13° Y 37'12	1.43852 AU	superior conj	12038 Feb 26 04:52	14°) 12′53	0°09'20
evening rise	12037 Mar 31 00:09	25° Y 48'09	1.15002110	minimum elong	12038 Feb 26 05:39	14°) 16'18	0°09'30
e vennig rise	12037 Apr 02 17:36	0°8		behind sun begin	12038 Feb 25 23:18	13°) (48′09	0 0, 50
	12037 Apr 23 12:18	0°II		behind sun end	12038 Feb 26 11:59	14°) 44′22	
evening max el	12037 Apr 30 17:40		21°19'55	desc. node	12038 Feb 27 09:30	16° ¥ 19'11	
asc. node	12037 May 06 03:43	12° ∏ 46′29		max. Earth dist.	12038 Mar 05 19:44	27°) 19′22	1.42041 AU
retrograde	12037 May 09 12:33	13° ∐ 40′09			12038 Mar 07 10:29	0° Υ	
evening set	12037 May 13 21:22	11° Ⅱ 54'35		evening rise	12038 Mar 11 04:19	6° Ƴ 04'47	
inferior conj	12037 May 19 03:43	5° Ⅱ 40'37	3°05'22		12038 Mar 26 22:53	9° 8	
minimum elong	12037 May 19 02:30	5° ∏ 44'52	3°04'29	evening max el	12038 Apr 13 10:53	22° 8 19'03	22°37'43
min. Earth dist.	12037 May 19 10:41	5° Ⅱ 16′23	0.68601 AU	retrograde	12038 Apr 23 09:23	28° 8 11'07	
	12037 May 23 16:28	30° ₹ 8		asc. node	12038 Apr 23 00:58	28° 8 10'32	
morning rise	12037 May 24 07:25	29° 8 24'56		evening set	12038 Apr 28 05:19	26° 8 10'21	
direct	12037 May 29 10:42	27° 8 10'31		inferior conj	12038 May 03 13:04	19° 8 47'15	2°45'52
	12037 Jun 05 01:24	Π °0		minimum elong	12038 May 03 11:12	19° 8 53'45	2°44'55
morning max el	12037 Jun 08 16:27		23°05'02	min. Earth dist.	12038 May 03 07:13	20° 8 07'37	0.68794 AU
desc. node	12037 Jun 08 14:05	3° Ⅱ 09'15		morning rise	12038 May 08 16:58	13° 8 37'34	
	12037 Jun 29 02:18	0 \circ \odot		direct	12038 May 13 06:59	11° 8 43'21	
morning set	12037 Jul 13 04:40	22° © 10'52		morning max el	12038 May 22 06:17	16° 8 56'04	21°38'15
max. Earth dist.	12037 Jul 17 11:50	29° © 27'10	1.39827 AU	desc. node	12038 May 26 11:00	21° 8 35'26	
	12037 Jul 17 19:27	0 ° Ω			12038 Jun 01 22:47	Π °0	
					12038 Jun 22 03:44	$0 \circ \mathfrak{S}$	
superior conj	12037 Jul 25 05:55	13° Ω 14'58		morning set	12038 Jun 22 03.44 12038 Jun 23 07:43	1° 9 50'46	

Section 1938 10 1932 1974 1934	max. Earth dist.	12038 Jun 29 14:01	11° © 59'05	1.42040 AU		12039 Jun 14 19:46	0ಂខ	
Part	superior coni	12038 Jul 07 03:28	24°9547'35	-1°40'41	superior coni	12039 Jun 18 01:43	5°919'02	-2°04'29
2008 Apr					1 3			
Second 1908 Au 18 of 1908 190					_			
Sec. mode 1208 M m 0.235 17-92.578 Sec. mode 12099 m 17-92.678 27-92.778 18-9000 19-9000 12099 m 17-9000 12099 m 17-9000 18-9000 12099 m 17-9000 18-9000 12099 m 17-9000 18-90	evening rise				<i>8</i>		$0^{\circ}\Omega$	
evening max 12038 Aug 10 6719 10°90016 18°9002 retrograde 12039 Jul 2 60°54 26°2,38°4 20°2,38°4 20°3,38°4 20°3,38°4 1208 Jul 2 60°2,38°4 1208 Jul 2 1343 13°9 16°14 1208 Jul 2 14°15 18°9 18°14 18°14	•		17° Ω 53'58		asc. node			
Section 1208 Am 1 0 629 1799 900 1009 Am 2 0 021 2 07215 1758 1		12038 Jul 26 21:06	0° m)		evening max el	12039 Jul 17 20:47	23° Ω 17'53	18°04'03
Internation 1208 May 10 1209	evening max el	12038 Aug 03 07:19	10°Mp06'16	18°09'02	retrograde	12039 Jul 24 07:54	26° Ω 38'54	
Infinition clong 1,208 Aug 9 533 8"\$26' 0 4"91' 6 min Lanth disc 2003 Aug 02 1148 20°\$40' 60.814 1724 40.80' 1974		12038 Aug 10 06:29	13° m 39'00		evening set	12039 Jul 26 23:12	26° Ω 04'32	
Minimum clong 1,208 Xaug 19 17:05 5 **Pa 27.33 0 **Pa 27.	evening set	12038 Aug 12 13:43	13° m) 16'14		inferior conj	12039 Aug 02 09:12	20° Ω 56′12	1°55'28
Marine Earth dist	inferior conj	12038 Aug 19 15:33	8° m 26'50	0°49'16	minimum elong	12039 Aug 02 11:48	20° Ω 49'29	1°54'07
am. Earth dist 1203 Sang 2 2 22-34 browning incoming	minimum elong	12038 Aug 19 17:05	8° Mp 23'23	0°48'20	min. Earth dist.	12039 Aug 05 08:14	17° Ω 54'44	0.62019 AU
Description 1918 No. 9 17-14 2"842" 18-14 19-14 18-14 19-14 19-14 18-14 19-14	desc. node	12038 Aug 22 09:16	5° m 59'18		morning rise	12039 Aug 08 22:04		
Fire content 1,000 1,00	min. Earth dist.	12038 Aug 22 22:34	5° m 30'35	0.59739 AU	desc. node	12039 Aug 09 06:38		
morning max el 10.08 Sep 16 12.22 8" my 5003 27*44" 13 21.08 Sep 10.24.09 07* 2.08 Sep 2.51.20 07* 08* 07* 08* 0	morning rise	•				•		
1.008 0.01 0.018 0.01		•	-		morning max el	-		27°57'28
Second 1908 Nor 16 111 13° 45° 125° 28° 25° 130° 140° 150° 120° 130° 140° 150° 150° 160° 170° 180° 180° 180° 180° 180° 180° 180° 18	morning max el	-		27°44'13		-		
moming set 1208 Oct 18 13.13 28*26.59*8 max. Farth dist. 12039 Oct 02 21.52 13*2.41*0 13*10 AU max. Farth dist. 12039 Oct 03 0.19 21*2.50*3 13*10 AU max. Farth dist. 12039 Oct 10 0.107 28*2.45*947 10*4145 10*30 AU 10*10 AU 10*414 10*414 10*30 AU 10*10 AU 10*414 10*414 10*30 AU 10*10 AU 10*414 10*414 10*414 10*30 AU 10*10*7 28*2.45*947 10*414 1	_					-		
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Mark Farth disk 12088 Oct 24 19.34 12°18.60°8 131357 AU 12090 oct 10 11.00°1	morning set							
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superior conj 12038 Oct 25 15.312 14™LE753 1°2128 minimum elong 12039 Oct 10 12.04 0°14 1°04	max. Earth dist.	12038 Oct 24 19:34	12°11L36'08	1.31357 AU		12020 0 . 10 01 07	200 0 50147	1004145
minimum elong		12020 0-4 25 15-21	1.40 m 2.7 102	1021120				
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12039 Apr 20 24:00 30°Rγ minimum elong 12040 Apr 01 02:04 18°γ12'29 1°36'31 morning rise 12039 Apr 23 04:31 27°γ54'18 morning rise 12040 Apr 06 16:11 12°γ11'55 direct 12039 Apr 27 05:40 26°γ21'27 direct 12040 Apr 10 05:20 10°γ59'34 12039 May 04 06:17 0°8 morning max el 12040 Apr 17 06:18 14°γ51'26 19°17'49 morning max el 12039 May 05 02:28 0°848'13 20°21'03 desc. node 12040 Apr 28 22:11 0°8 0°82'330 desc. node 12039 May 13 07:49 10°843'54 desc. node 12040 Apr 29 04:34 0°82'330 0°82'330 12039 May 26 14:45 0°¶ greatest brilliancy 12040 Apr 30 01:54 1°842'26 -0.7m morning set 12039 May 13 13:10 10°¶35'05 morning set 12040 May 11 14:27 19°814'24 19°814'24 12040 May 11 14:27 19°814'24 10°814'24 12040 May 11 14:27 19°814'24 10°814'24 12040 May 11 14:27 19°814'24 12040 May 11 14:27 12040 May 11 14:	5	-						
morning rise 12039 Apr 23 04:31 27°	<i>U</i>	-						
direct 12039 Apr 27 05:40 26°Y21'27 direct 12040 Apr 10 05:20 10°Y59'34 12039 May 04 06:17 0°B morning max el 12040 Apr 17 06:18 14°Y51'26 19°17'49 morning max el 12039 May 05 02:28 0°B48'13 20°21'03 lesc. node 12040 Apr 28 22:11 0°B lesc. node 12039 May 13 07:49 10°B43'54 lesc. node 12040 Apr 29 04:34 0°B23'30 lesc. node 12039 May 26 14:45 0°I greatest brilliancy 12040 Apr 30 01:54 1°B42'26 -0.7m morning set 12039 Jun 02 13:10 10°I 35'05 morning set 12040 May 11 14:27 19°B14'24	morning rise	-			_	-		
morning max el 12039 May 04 06:17 0°8 morning max el 12040 Apr 17 06:18 14°Y51'26 19°17'49 12039 May 05 02:28 0°848'13 20°21'03 12040 Apr 28 22:11 0°8 desc. node 12039 May 13 07:49 10°843'54 desc. node 12040 Apr 29 04:34 0°823'30 12039 May 26 14:45 0° Ⅲ greatest brilliancy 12040 Apr 30 01:54 1°842'26 -0.7m morning set 12039 Jun 02 13:10 10°Ⅲ35'05 morning set 12040 May 11 14:27 19°814'24	•	-	26° Ƴ 21'27		•	-		
desc. node 12039 May 13 07:49 10°843'54 desc. node 12040 Apr 29 04:34 0°823'30 12039 May 26 14:45 0° II greatest brilliancy 12040 Apr 30 01:54 1°842'26 -0.7m morning set 12039 Jun 02 13:10 10°I35'05 morning set 12040 May 11 14:27 19°814'24		12039 May 04 06:17	0° 8		morning max el	12040 Apr 17 06:18	14° Y 51'26	19°17'49
12039 May 26 14:45 0° II greatest brilliancy 12040 Apr 30 01:54 1° 842'26 -0.7m morning set 12039 Jun 02 13:10 10° II morning set 12040 May 11 14:27 19° 814'24	morning max el	12039 May 05 02:28	0° 8 48'13	20°21'03		12040 Apr 28 22:11	0° 8	
morning set 12039 Jun 02 13:10 10° I 35'05 morning set 12040 May 11 14:27 19° 8 14'24	desc. node	12039 May 13 07:49			desc. node	12040 Apr 29 04:34	_	
· · · · · · · · · · · · · · · · · · ·		-			-	-		-0.7m
max. Earth dist. 12039 Jun 11 22:33 25° II 20'54 1.43885 AU 12040 May 18 13:13 0° II	•				morning set			
	max. Earth dist.	12039 Jun 11 22:33	25°Щ20'54	1.43885 AU		12040 May 18 13:13	П°0	

max. Earth dist.	12040 May 24 13:07	9° Ⅱ 22'46	1.45160 AU		12041 Apr 22 03:14	0° ႘	
superior conj	12040 May 28 00:49	14° ∏ 53'23	-2°13'23	superior conj	12041 May 07 09:11	23° 8 54'53	-2°02'23
minimum elong	12040 May 28 00:35	14° ∏ 52'30		minimum elong	12041 May 07 01:46	23° 8 25'53	
	12040 Jun 06 10:03	0°©		max. Earth dist.	12041 May 07 08:04		1.45731 AU
evening rise	12040 Jun 11 10:12	8°9513'58			12041 May 11 06:35	0°II	
asc. node	12040 Jun 22 17:37	26° © 38'10		evening rise	12041 May 23 02:23	18° Ⅱ 36′20	
	12040 Jun 24 23:45	$0^{\circ}\Omega$		C	12041 May 30 07:19	0ಂತಾ	
evening max el	12040 Jun 30 10:42	6° Ω 47'24	18°17'33	greatest brilliancy	12041 May 31 21:21	2°528'56	-0.8m
retrograde	12040 Jul 06 19:38	10° Ω 10'41		asc. node	12041 Jun 09 14:38	15° 5 21'38	
evening set	12040 Jul 09 19:13	9° Ω 22'14		evening max el	12041 Jun 13 22:14	20° 5 27'31	18°48'42
inferior conj	12040 Jul 15 17:11	3° Ω 56'45	2°39'21	retrograde	12041 Jun 20 13:57	24° © 06'32	
minimum elong	12040 Jul 15 19:31	3° Ω 50′03	2°38'06	evening set	12041 Jun 23 22:03	23° © 02'29	
min. Earth dist.	12040 Jul 18 03:14	1° Ω 10'49	0.64151 AU	inferior conj	12041 Jun 29 11:41	17° 5 21'22	3°04'34
	12040 Jul 19 05:31	30° ₹ 5		minimum elong	12041 Jun 29 13:06	17° © 16'56	3°03'34
morning rise	12040 Jul 21 18:23	27° © 39'04		min. Earth dist.	12041 Jul 01 06:57	15° 5 06'21	0.65955 AU
desc. node	12040 Jul 26 03:59	25° © 18'46		morning rise	12041 Jul 05 03:24	10° © 59'11	
direct	12040 Jul 28 09:37	25° © 01'33		direct	12041 Jul 11 12:13	8° © 17'01	
	12040 Aug 07 21:22	0 \circ Ω		desc. node	12041 Jul 13 01:14	8° © 25'27	
morning max el	12040 Aug 11 03:45	3° Ω 02′19	27°33'52	morning max el	12041 Jul 24 14:40	16° © 03'32	26°39'53
	12040 Aug 31 08:08	0° m			12041 Aug 05 02:51	0 \circ Ω	
morning set	12040 Sep 15 05:54	26° m 38'18			12041 Aug 24 04:12	0° m)	
	12040 Sep 16 22:15	0∘ ⊽		morning set	12041 Aug 29 11:05	9° m 41'56	
asc. node	12040 Sep 18 18:33	3° Ω 46'14	1.00000 4.77	max. Earth dist.	12041 Sep 02 12:58	17° Mp 37'06	1.34286 AU
max. Earth dist.	12040 Sep 19 23:48	6° ≏ 18'13	1.32790 AU	asc. node	12041 Sep 05 15:13	23° Mp 52'06	
	12040 G 22 06 52	120 0 17142	0042142		12041 6 07 06 20	270 m. 1 414 4	0015145
superior conj	12040 Sep 23 06:52	13° £ 17'43 13° £ 07'37	0°42'43 0°42'28	superior conj	12041 Sep 07 06:28	27° Mp 14'44 27° Mp 10'25	0°15'45 0°15'28
minimum elong evening rise	12040 Sep 23 04:59 12040 Sep 30 06:38	13 ≥ 07 37 28° ♀ 23'55	0 42 28	minimum elong behind sun begin	12041 Sep 07 05:39 12041 Sep 07 04:02	27° mg 02'04	0 13 28
evening rise	12040 Sep 30 00:38 12040 Oct 01 00:42	0°M		behind sun end	12041 Sep 07 04:02 12041 Sep 07 07:15	27° my 18'47	
	12040 Oct 01 00.42 12040 Oct 18 06:32	0° ⊼ ¹		bennia sun ena	12041 Sep 07 07.13 12041 Sep 08 14:08	0° <u>Ω</u>	
desc. node	12040 Oct 18 00:32 12040 Oct 22 00:46	4° ∡ 14'50		evening rise	12041 Sep 08 14:08 12041 Sep 14 16:27	0 = 12° £ 51'30	
evening max el	12040 Oct 22 00:40	4° × ⁷ 43'52	22°48'42	evening rise	12041 Sep 23 10:26	0°M	
retrograde	12040 Nov 04 15:40	11° x 15'24	22 10 12	evening max el	12041 Oct 04 05:16	14°M59'55	21°12'51
evening set	12040 Nov 08 11:57	10°×743'12		desc. node	12041 Oct 08 22:08	18°M45'12	21 1201
min. Earth dist.	12040 Nov 15 21:07	7° ∡ °22'08	0.54973 AU	retrograde	12041 Oct 16 03:13	20°M55'05	
inferior conj	12040 Nov 17 01:20	6° ∡ 141'53		evening set	12041 Oct 18 16:48	20°M39'44	
minimum elong	12040 Nov 16 23:14	6° ∡ ¹44'53	5°49'40	inferior conj	12041 Oct 27 17:23	16°M45'12	-5°07'05
morning rise	12040 Nov 25 12:00	2° ₹ 53'14		minimum elong	12041 Oct 27 08:13	16°M58'04	5°04'35
direct	12040 Nov 28 14:54	2° ∡ ³30'40		min. Earth dist.	12041 Oct 28 03:42	16°M30'40	0.54562 AU
morning max el	12040 Dec 10 00:49	7° ∡ ¹56'05	20°59'20	morning rise	12041 Nov 05 00:16	12°M54'28	
asc. node	12040 Dec 15 19:14	14° ∡ °41'40		direct	12041 Nov 08 23:05	12°M20'56	
	12040 Dec 24 20:56	ರ∘ರ		morning max el	12041 Nov 21 18:05	18° M28'53	22°39'42
morning set	12040 Dec 29 13:10	9° පි 26'00			12041 Dec 01 00:50	0° ∡ ¹	
				asc. node	12041 Dec 02 16:15	2° ∡ ³35'36	
superior conj	12041 Jan 05 21:42	24° ろ 46'26	1°24'30	morning set	12041 Dec 14 00:14	24° х 13′10	
minimum elong	12041 Jan 05 24:00	24° る 58'16	1°25'04		12041 Dec 16 17:08	0°る	
	12041 Jan 08 11:19	0°≈	1.05505 :		100417	00-21	100
max. Earth dist.	12041 Jan 10 18:46	4° ≈ 35'17	1.35585 AU	superior conj	12041 Dec 21 00:08	9° る 13'12	
evening rise	12041 Jan 14 18:36	12°≈13'37		minimum elong	12041 Dec 21 01:25	9° る 19'58	1°35'43
desc. node	12041 Jan 17 23:35	18°≈05'11		max. Earth dist.	12041 Dec 24 11:01		1.33835 AU
	12041 Jan 24 23:00	0° ∀ 0° Υ		evening rise	12041 Dec 29 00:32	25°₹40'30	
	12041 Feb 15 12:38	3° Υ 49'01	26921120	4 4-	12041 Dec 31 06:27	0° ≈ 8° ≈ 23'44	
evening max el	12041 Feb 19 04:18 12041 Mar 04 01:33	11° Υ 06'56	26°21'29	desc. node	12042 Jan 04 20:25 12042 Jan 18 09:22	8°≈23°44 0°)	
retrograde	12041 Mar 10 08:03	8° Υ 35'45		ovening may al	12042 Jan 18 09.22 12042 Feb 01 17:53	0 X 17° ¥ 25'46	2700006
evening set asc. node	12041 Mar 10 08:03 12041 Mar 13 17:00	5° Υ 12'44		evening max el retrograde	12042 Feb 01 17:53 12042 Feb 15 04:01	24° H 50'16	41 07 00
min. Earth dist.	12041 Mar 14 11:23	4°Υ18'35	0.66741 AU	evening set	12042 Feb 13 04:01 12042 Feb 21 20:04	24 X 30 10 22° X 17'39	
inferior conj	12041 Mar 14 11:23	2°Υ09'35	0°48'09	min. Earth dist.	12042 Feb 25 18:16	18°) 33'52	0.65260 AU
minimum elong	12041 Mar 16 04:33	2° Υ 13'14	0°47'44	inferior conj	12042 Feb 28 00:34	16° ★ 02'04	
	12041 Mar 18 01:26	30°R ₩	J ., .,	minimum elong	12042 Feb 28 00:53 12042 Feb 28 00:53	16° X 02'04	0°10'52
morning rise	12041 Mar 22 01:54	26° ¥ 25'45		transit middle	12042 Feb 28 00:53	16° X 01'11	0°10'52
direct	12041 Mar 25 04:15	25°) (31'36		transit begin	12042 Feb 27 22:40	16°) €07'24	
morning max el	12041 Mar 31 17:06	29° ₭ 01'16	18°30'38	transit end	12042 Feb 28 03:06	15°) 54'59	
Č	12041 Apr 01 16:01	0° Υ		asc. node	12042 Feb 28 14:24	15° ¥ 23′29	
desc. node	12041 Apr 16 01:15	20° Y °25′19		morning rise	12042 Mar 06 07:14	10°) 30′53	
morning set	12041 Apr 21 09:46	28° Y 51'08		direct	12042 Mar 09 00:10	9°) €51'52	

morning max el	12042 Mar 15 08:48 12042 Mar 27 08:39	13°) 11'27 0° Υ	18°00'16	inferior conj minimum elong	12043 Feb 11 09:49 12043 Feb 11 12:25	29°≈37'07 29°≈30'32	
morning set	12042 Apr 02 09:28	9° Υ ′52'08		8	12043 Feb 11 00:48	30°R≈	
desc. node	12042 Apr 02 21:53	10° Y ′43′02		asc. node	12043 Feb 15 11:46	25° ≈ 54'31	
	12042 Apr 14 20:06	0°B		morning rise	12043 Feb 18 05:09	24° ≈ 21'22	
	1			direct	12043 Feb 20 14:17	23° ≈ 53'52	
superior conj	12042 Apr 16 19:45	3° 8 08'49	-1°33'02	morning max el	12043 Feb 27 02:32	27° ≈ 14'26	17°47'07
minimum elong	12042 Apr 16 10:37	2° 8 32'40	1°32'26		12043 Mar 01 13:44	0°)	
max. Earth dist.	12042 Apr 20 04:25	8° 8 26'17	1.45551 AU	morning set	12043 Mar 15 11:50	22°) (10′09	
evening rise	12042 May 02 22:00	28° 8 12'10			12043 Mar 20 01:31	0° Y	
	12042 May 04 02:01	Π $^{\circ}0$		desc. node	12043 Mar 20 18:29	1° Y 12'04	
greatest brilliancy	12042 May 16 12:11	18° Ⅱ 51'16	-0.7m				
	12042 May 24 12:49	0 \circ		superior conj	12043 Mar 28 00:33	13° Y 17'37	-0°53'25
asc. node	12042 May 27 11:45	3° © 26'45		minimum elong	12043 Mar 27 19:01	12° Y ′54'55	0°52'44
evening max el	12042 May 28 05:08	4° © 11'46	19°36'25	max. Earth dist.	12043 Apr 02 22:57	22° Y ′51'58	1.44648 AU
retrograde	12042 Jun 04 11:47	8° © 18'51			12043 Apr 07 11:36	0° 8	
evening set	12042 Jun 08 04:51	6°\$58'37		evening rise	12043 Apr 12 09:18	7° 8 35'31	
inferior conj	12042 Jun 13 13:29	1°503'16	3°14'35		12043 Apr 27 09:00	0°П	
minimum elong	12042 Jun 13 13:48		3°13'43	evening max el	12043 May 11 06:21	17° Ⅱ 57'32	20°38'44
i Patri	12042 Jun 14 08:29	30°RⅡ	0.67242.411	asc. node	12043 May 14 08:57	20° Ⅱ 41'38	
min. Earth dist.	12042 Jun 14 18:01		0.67342 AU	retrograde	12043 May 19 10:43	22° I I42'31	
morning rise	12042 Jun 18 22:21 12042 Jun 24 21:05	24° Ⅱ 41'17 22° Ⅱ 04'15		evening set	12043 May 23 13:29	21° П 06'06 14° П 58'13	2011157
direct desc. node	12042 Jun 24 21:05 12042 Jun 29 22:25	22°Щ04°15 23°Щ35'10		inferior conj minimum elong	12043 May 28 19:57	14°Щ58°13 15°Щ00'42	
morning max el	12042 Jul	29° II 21'54	25°24'16	min. Earth dist.	12043 May 28 19:14 12043 May 29 10:33	13 П 00 42 14° П 07'52	0.68270 AU
morning max er	12042 Jul 07 16:03	0°95	23 24 10	morning rise	12043 May 29 10:33 12043 Jun 03 00:43	8° П 39'28	0.08270 AU
	12042 Jul 07 10:03	0°€0		direct	12043 Jun 08 11:19	6° П 15'11	
morning set	12042 Jul 29 22:42 12042 Aug 12 01:10	22° Ω 02'07		desc. node	12043 Jun 16 19:27	10° Ⅱ 20'04	
max. Earth dist.	12042 Aug 12 01:10	28°Ω43'20	1.36235 AU	morning max el	12043 Jun 19 11:13	10 H 20 04 12° H 49'54	23°56'49
max. Lartii dist.	12042 Aug 16 08:41	0° m)	1.50255 710	morning max cr	12043 Jul 03 07:12	0°95	25 50 47
	12042 Mug 10 00.41	V IIV			12043 Jul 22 18:28	$0 {\circ} \mathcal{U}$	
superior conj	12042 Aug 21 20:59	10° mp 42'35	-0°15'26	morning set	12043 Jul 24 19:32	3° Ω 28'00	
minimum elong	12042 Aug 21 21:58		0°15'36	max. Earth dist.	12043 Jul 28 14:00	10° Ω 01'53	1.38484 AU
behind sun begin	12042 Aug 21 20:20	10° mp 39'20					
behind sun end	12042 Aug 21 23:35	10° m 55'32		superior conj	12043 Aug 04 22:59	23° Ω 33'33	-0°49'14
asc. node	12042 Aug 23 11:53	13° m 57'31		minimum elong	12043 Aug 05 02:24	23° Ω 49'44	
evening rise	12042 Aug 29 22:32	27° m 05'54			12043 Aug 08 07:32	0° m	
	12042 Aug 31 08:53	0∘ ⊽		asc. node	12043 Aug 10 08:36	3° m 59'18	
evening max el	12042 Sep 16 11:00	25° ≏ 54'49	19°54'08	evening rise	12043 Aug 13 22:20	11° M 00'40	
	12042 Sep 22 02:05	0° M			12043 Aug 24 08:25	0∘ ⊽	
desc. node	12042 Sep 25 19:33	0° ™ 59'48		evening max el	12043 Aug 30 06:22	7° ჲ 38'03	18°56'46
retrograde	12042 Sep 26 17:58	1°ML02'14		retrograde	12043 Sep 07 22:57	11° ≏ 58'50	
evening set	12042 Sep 28 15:56	0°M52'21		evening set	12043 Sep 09 19:53	11° ≏ 47'31	
	12042 Oct 01 16:38	30° ₽ Ω		desc. node	12043 Sep 12 16:58	10° ≏ 49'53	
inferior conj	12042 Oct 07 13:53	26° ₽ 51'33		inferior conj	12043 Sep 18 03:14	7° △ 30'43	
minimum elong	12042 Oct 07 04:49		3°30'48	minimum elong	12043 Sep 17 22:52	7° △ 38'24	1°40'36
min. Earth dist.	12042 Oct 09 12:34	25° △ 40'22	0.55088 AU	min. Earth dist.	12043 Sep 21 02:12	5° Ω 26'31	0.56472 AU
morning rise	12042 Oct 15 16:17	22° △ 37'31		morning rise	12043 Sep 25 22:38	2° Ω 40'18	
direct	12042 Oct 20 11:06	21° £ 47'27	24929101	direct	12043 Oct 01 12:29	1° Ω 26'27	26806128
morning max el	12042 Nov 03 04:58	28° £ 34'27 0° I L	24°2801	morning max el	12043 Oct 15 17:32	8° £ 45'16 0° I L	20-00-38
asc. node	12042 Nov 04 15:39 12042 Nov 19 13:10	21°M11'46		asc. node	12043 Oct 31 16:12 12043 Nov 06 09:59	10°M19'32	
asc. Houe	12042 Nov 19 13:10 12042 Nov 24 04:14	21 IIC11 40 0° √		morning set	12043 Nov 12 23:05	23°M39'18	
morning set	12042 Nov 24 04:14 12042 Nov 28 12:07	8° ∡ 759'16		morning set	12043 Nov 15 21:06	25 11 0 39 18	
morning set	12042 1407 26 12:07	0 × 3710			12043 1101 13 21:00	· ^	
superior conj	12042 Dec 05 07:49	23° ∡ 52'35	1°38'50	superior conj	12043 Nov 19 18:30	8° ∡ ³37'44	1°36'38
minimum elong	12042 Dec 05 07:57	23° × 52'35'16	1°39'40	minimum elong	12043 Nov 19 17:34	8° ₹ 37 44	1°37'20
max. Earth dist.	12042 Dec 07 10:54	28°×33'10	1.32509 AU	max. Earth dist.	12043 Nov 20 16:43	10° х 40′57	1.31666 AU
	12042 Dec 08 03:34	0°ਰ		evening rise	12043 Nov 26 18:06	23° ∡ ¹48'00	
evening rise		9° ට 34'25		Č	12043 Nov 29 18:41	8°0	
desc. node	12042 Dec 12 17:19	7 03-723					
	12042 Dec 12 17:19 12042 Dec 22 17:21	28° る 25'13		desc. node	12043 Dec 09 14:21	18° る 01'57	
				desc. node	12043 Dec 09 14:21 12043 Dec 17 09:31	18° る 01'57 0°≈	
	12042 Dec 22 17:21	28° ප් 25'13		desc. node evening max el			27°22'29
evening max el	12042 Dec 22 17:21 12042 Dec 23 15:25	28°る25'13 0°≈ 0°升 0°升38'54	27°31'24		12043 Dec 17 09:31	0° ≈	27°22'29
evening max el retrograde	12042 Dec 22 17:21 12042 Dec 23 15:25 12043 Jan 14 13:46 12043 Jan 15 05:50 12043 Jan 28 23:51	28°る25'13 0°≈ 0°升 0°升38'54 8°升02'22	27°31'24	evening max el	12043 Dec 17 09:31 12043 Dec 28 14:06 12044 Jan 11 12:03 12044 Jan 18 10:41	0° ≈ 13° ≈ 15'51	27°22'29
evening max el retrograde evening set	12042 Dec 22 17:21 12042 Dec 23 15:25 12043 Jan 14 13:46 12043 Jan 15 05:50 12043 Jan 28 23:51 12043 Feb 04 21:59	28°₹25′13 0°≈ 0°¥ 0°¥38′54 8°¥02′22 5°¥35′19		evening max el retrograde evening set min. Earth dist.	12043 Dec 17 09:31 12043 Dec 28 14:06 12044 Jan 11 12:03 12044 Jan 18 10:41 12044 Jan 22 04:34	0°≈ 13°≈15'51 20°≈32'49 18°≈20'05 15°≈30'07	0.61392 AU
evening max el retrograde	12042 Dec 22 17:21 12042 Dec 23 15:25 12043 Jan 14 13:46 12043 Jan 15 05:50 12043 Jan 28 23:51	28°₹25′13 0°≈ 0°¥ 0°¥38′54 8°¥02′22 5°¥35′19	27°31'24 0.63446 AU	evening max el retrograde evening set	12043 Dec 17 09:31 12043 Dec 28 14:06 12044 Jan 11 12:03 12044 Jan 18 10:41	0°≈ 13°≈15'51 20°≈32'49 18°≈20'05	0.61392 AU

minimum elong	12044 Jan 25 11:40	12° ≈ 33'50	2°34'41		12044 Dec 16 02:03	0° ≈	
morning rise	12044 Feb 01 15:28	7°≈48'29	2 3441	retrograde	12044 Dec 10 02:03	0 ∞ 2°≈13'38	
asc. node	12044 Feb 02 09:05	7°≈37'26		evening set	12044 Dec 23 14:38 12044 Dec 30 06:21	2 ≈1338 0°≈24'08	
direct	12044 Feb 02 09:03 12044 Feb 03 19:10	7°≈28'48		evening set	12044 Dec 30 00.21 12044 Dec 30 23:34	0 ≈2408 30°Rる	
morning max el	12044 Feb 10 19:02		17°51'56	min. Earth dist.	12045 Jan 03 06:14	• -	0.59249 AU
morning max cr	12044 Feb 23 10:17	0° ₩	17 31 30	inferior conj	12045 Jan 06 10:15	25° る 19'27	
morning set	12044 Feb 26 10:38	5° ∺ 25'35		minimum elong	12045 Jan 06 18:11	25°る04'00	
desc. node	12044 Mar 06 15:04	21°) 47'48		morning rise	12045 Jan 14 08:52	20°る42'44	3 33 23
desc. node	12011111111 00 13.01	21 /(17 10		direct	12045 Jan 16 10:47	20° ට 27'11	
superior conj	12044 Mar 08 05:46	24° ₩ 35'07	-0°12'29	asc. node	12045 Jan 19 06:18	20°පි57'03	
minimum elong	12044 Mar 08 04:39	24°) 30'19		morning max el	12045 Jan 24 06:38		18°16'07
behind sun begin	12044 Mar 07 23:07	24°) (06'28	0 12 00	monning mun vi	12045 Jan 28 21:56	0°≈	10 10 0 ,
behind sun end	12044 Mar 08 10:11	24° H 54'07		morning set	12045 Feb 09 00:00	19° ≈ 21'00	
	12044 Mar 11 10:12	0°Υ			12045 Feb 14 15:29	0°) €	
max. Earth dist.	12044 Mar 15 13:37	6° Y 51'56	1.43130 AU		120.0100 11.10.29	٠,٨	
evening rise	12044 Mar 22 03:52	17° Ƴ 24'47		superior conj	12045 Feb 18 09:56	6° ¥ 56'21	0°24'00
	12044 Mar 30 09:03	0°8		minimum elong	12045 Feb 18 11:41	7°) €04'19	0°24'07
	12044 Apr 21 10:34	0°II		desc. node	12045 Feb 21 11:42	12°) € 26'52	
evening max el	12044 Apr 23 02:06		21°52'18	max. Earth dist.	12045 Feb 25 23:56	20°) 15'54	1.41161 AU
asc. node	12044 Apr 30 06:12	6° I I50'34	21 02 10	evening rise	12045 Mar 02 16:36	28°) (04'54	1.11101110
retrograde	12044 May 02 08:47	7° I I11'38		evening rise	12045 Mar 03 20:57	0°Υ	
evening set	12044 May 06 22:07	5° Ⅱ 19'38			12045 Mar 23 23:29	0°8	
evening sec	12044 May 11 11:58	30° R 8		evening max el	12045 Apr 05 17:56	15° 8 32'31	23°12'06
inferior conj	12044 May 12 04:49		2°58'19	retrograde	12045 Apr 16 04:24	21° 8 41'47	23 12 00
minimum elong	12044 May 12 03:16	29° 8 06'44	2°57'26	asc. node	12045 Apr 17 03:28	21° 8 37'27	
min. Earth dist.	12044 May 12 06:18	28° 8 56'10	0.68735 AU	evening set	12045 Apr 21 05:10	19° 8 35'18	
morning rise	12044 May 17 08:14	22° 8 47'49	0.00735110	min. Earth dist.	12045 Apr 26 03:05	13° 8 47'36	0.68742 AU
direct	12044 May 22 05:52	20° 8 41'34		inferior conj	12045 Apr 26 14:08	13° 8 09'26	2°34'37
morning max el	12044 May 31 22:32		22°27'15	minimum elong	12045 Apr 26 12:05	13° 8 16'30	
desc. node	12044 Jun 02 16:24	28° 8 14'32	22 27 10	morning rise	12045 May 01 18:54	7° 8 02'31	2 33 30
acco. noac	12044 Jun 04 05:49	0°II		direct	12045 May 06 03:27	5° 8 17'07	
	12044 Jun 25 19:59	0°©		morning max el	12045 May 14 14:35	10° 8 08'55	21°03'49
morning set	12044 Jul 04 13:28	13° © 47'13		desc. node	12045 May 20 13:18	16° 8 59'56	21 03 19
max. Earth dist.	12044 Jul 09 12:26	22°900'14	1.40793 AU	dese. node	12045 May 30 00:22	0°II	
max. Darm dist.	12044 Jul 14 04:02	0°Ω	1.10773710	morning set	12045 Jun 14 05:58	22° I 158'42	
	12011041 11 01.02	° 00		morning sec	12045 Jun 18 16:25	0°9	
superior conj	12044 Jul 17 08:13	5° Ω 37'34	-1°22'59	max. Earth dist.	12045 Jun 21 17:07	4°953'26	1.42886 AU
minimum elong	12044 Jul 17 14:06	6°Ω03'55					
asc. node	12011001 17 11.00						
	12044 Jul 27 05:21	23°Ω53'20		superior coni	12045 Jun 28 20:12	16°9544'33	-1°52'10
	12044 Jul 27 05:21 12044 Jul 27 12:28	23°Ω53'20 24°Ω26'48		superior conj minimum elong	12045 Jun 28 20:12 12045 Jun 29 02:59	16°9544'33 17°9513'22	
evening rise	12044 Jul 27 12:28	24° Ω 26'48		superior conj minimum elong	12045 Jun 29 02:59	17° © 13'22	
evening rise	12044 Jul 27 12:28 12044 Jul 30 11:43	24° Ω 26'48 0° m	18°20'43	minimum elong	12045 Jun 29 02:59 12045 Jul 06 11:26	17°©13′22 0° Ω	
evening rise evening max el	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02	24° \Omega 26'48 0° m 20° m 03'53	18°20'43		12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41	17°©13′22 0°Ω 7°Ω13′29	
evening rise evening max el retrograde	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56	24° \(\Omega \) 26'48 0° \(\mathref{m} \) 20° \(\mathref{m} \) 03'53 23° \(\mathref{m} \) 49'34	18°20'43	minimum elong evening rise	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09	17°©13'22 0°Ω 7°Ω13'29 13°Ω34'57	
evening rise evening max el retrograde evening set	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51	24° N 26'48 0° m 20° m 03'53 23° m 49'34 23° m 32'03		minimum elong evening rise asc. node	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10	17°S13'22 0°N 7°N13'29 13°N34'57 0°M	1°52'23
evening rise evening max el retrograde evening set inferior conj	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15	24° \$\Omega 26'48\$ 0° \$\mathbf{m}\$ 20° \$\mathbf{m}\$ 03'53\$ 23° \$\mathbf{m}\$ 49'34\$ 23° \$\mathbf{m}\$ 32'03\$ 18° \$\mathbf{m}\$ 54'46	0°00'05	minimum elong evening rise asc. node evening max el	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47	17°S13'22 0°N 7°N13'29 13°N34'57 0°M 3°M01'28	
evening rise evening max el retrograde evening set inferior conj minimum elong	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14	24° \Omega 26'48 0° my 20° my 03'53 23° my 49'34 23° my 32'03 18° my 54'46 18° my 54'47	0°00'05 0°00'09	minimum elong evening rise asc. node evening max el retrograde	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20	17°\$13'22 0°\$\Omega\$ 7°\$\Omega\$13'29 13°\$\Omega\$34'57 0°\$\Omega\$ 3°\$\Omega\$01'28 6°\$\Omega\$27'09	1°52'23
evening rise evening max el retrograde evening set inferior conj minimum elong transit middle	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14	24° \$\Omega 26'48 0° \$\mathref{m}\$ 00 \text{ m}\$ 03'53 23° \$\mathref{m}\$ 49'34 23° \$\mathref{m}\$ 32'03 18° \$\mathref{m}\$ 54'47 18° \$\mathref{m}\$ 54'47	0°00'05	minimum elong evening rise asc. node evening max el retrograde evening set	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07	17°\$13'22 0°\$\Omega\$7\cdot \Omega\$13'29 13\cdot \Omega\$334'57 0\cdot \Omega\$3\cdot \Omega\$01'28 6\cdot \Omega\$27'09 5\cdot \Omega\$59'39	1°52′23 18°04′41
evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 14:14	24° \Omega 26'48 0° \text{ m} 20° \text{ m} 03'53 23° \text{ m} 49'34 23° \text{ m} 32'03 18° \text{ m} 54'46 18° \text{ m} 54'47 18° \text{ m} 01'59	0°00'05 0°00'09	evening rise asc. node evening max el retrograde evening set inferior conj	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44	17°S13'22 0°N 7°N13'29 13°N34'57 0°M 3°M01'28 6°M27'09 5°M59'39 1°M01'54	1°52'23 18°04'41 1°20'18
evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45	24° \Omega 26'48 0° \text{ my 03'53} 23° \text{ my 49'34} 23° \text{ my 32'03} 18° \text{ my 54'47} 18° \text{ my 54'47} 19° \text{ my 01'59} 18° \text{ my 47'33}	0°00'05 0°00'09	minimum elong evening rise asc. node evening max el retrograde evening set	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57	17°S13'22 0°N 7°N13'29 13°N34'57 0°M 3°M01'28 6°M27'09 5°M59'39 1°M01'54 0°M56'37	1°52′23 18°04′41
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evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist.	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45 12044 Aug 29 14:21 12044 Sep 01 22:10	24° \$\Omega 26'48\$ 0° \$\text{m}\$ 20° \$\text{m}\$ 03'53\$ 23° \$\text{m}\$ 49'34\$ 23° \$\text{m}\$ 32'03\$ 18° \$\text{m}\$ 54'46\$ 18° \$\text{m}\$ 54'47\$ 19° \$\text{m}\$ 01'59\$ 18° \$\text{m}\$ 47'33\$ 18° \$\text{m}\$ 54'32\$ 16° \$\text{m}\$ 11'35	0°00'05 0°00'09	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 15 02:13	17°\$13'22 0°\$\Omega\$ 7°\$\Omega\$13'29 13°\$\Omega\$34'57 0°\$\Omega\$ 3°\$\Omega\$01'28 6°\$\Omega\$27'09 5°\$\Omega\$59'39 1°\$\Omega\$01'54 0°\$\Omega\$56'37 30°\$\Omega\$0	1°52'23 18°04'41 1°20'18
evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45 12044 Aug 29 17:45 12044 Aug 29 14:21 12044 Sep 01 22:10 12044 Sep 05 23:07	24° \$\Omega 26'48\\ 0° \$\mathbf{m}\) 20° \$\mathbf{m}\) 03'53\\ 23° \$\mathbf{m}\) 03'43\\ 23° \$\mathbf{m}\) 54'46\\ 18° \$\mathbf{m}\) 54'47\\ 19° \$\mathbf{m}\) 01'59\\ 18° \$\mathbf{m}\) 47'33\\ 18° \$\mathbf{m}\) 54'32\\ 16° \$\mathbf{m}\) 11'35\\ 13° \$\mathbf{m}\) 28'25	0°00'05 0°00'09 0°00'09	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 15 02:13 12045 Aug 16 11:46	17°\$13'22 0°\$\Omega\$ 7°\$\Omega\$13'29 13°\$\Omega\$34'57 0°\$\Omega\$ 3°\$\Omega\$01'28 6°\$\Omega\$27'09 5°\$\Omega\$59'39 1°\$\Omega\$01'54 0°\$\Omega\$56'37 30°\$\Omega\$0.	1°52'23 18°04'41 1°20'18 1°19'04
evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45 12044 Aug 29 17:45 12044 Aug 29 14:21 12044 Sep 01 22:10 12044 Sep 12 04:21	24° \$\Omega 26'48\$ 0° \$\text{m}\$ 03'53 23° \$\text{m}\$ 49'34 23° \$\text{m}\$ 32'03 18° \$\text{m}\$ 54'46 18° \$\text{m}\$ 54'47 19° \$\text{m}\$ 01'59 18° \$\text{m}\$ 47'33 18° \$\text{m}\$ 54'32 16° \$\text{m}\$ 11'35 13° \$\text{m}\$ 28'25 11° \$\text{m}\$ 46'17	0°00'05 0°00'09 0°00'09	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 15 02:13 12045 Aug 16 11:46 12045 Aug 18 17:59	17°\$13'22 0°\$\Omega\$ 7°\$\Omega\$13'29 13°\$\Omega\$34'57 0°\$\Omega\$ 3°\$\Omega\$01'28 6°\$\Omega\$27'09 5°\$\Omega\$59'39 1°\$\Omega\$01'54 0°\$\Omega\$56'37 30°\$\Omega\$0 28°\$\Omega\$00'55 26°\$\Omega\$48'06 25°\$\Omega\$07'41	1°52'23 18°04'41 1°20'18 1°19'04
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evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45 12044 Aug 29 14:21 12044 Sep 01 22:10 12044 Sep 05 23:07 12044 Sep 12 04:21 12044 Sep 26 12:31 12044 Oct 05 11:51	24° \$\Omega 26'48\$ 0° \$\text{m}\$ 20° \$\text{m}\$ 03'53\$ 23° \$\text{m}\$ 49'34\$ 23° \$\text{m}\$ 32'03\$ 18° \$\text{m}\$ 54'46\$ 18° \$\text{m}\$ 54'47\$ 19° \$\text{m}\$ 01'59\$ 18° \$\text{m}\$ 47'33\$ 18° \$\text{m}\$ 54'32\$ 16° \$\text{m}\$ 11'35\$ 13° \$\text{m}\$ 28'25\$ 11° \$\text{m}\$ 46'17\$ 19° \$\text{m}\$ 27'47\$ 0° \$\text{\text{\$\Omega\$}}\$	0°00'05 0°00'09 0°00'09	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 15 02:13 12045 Aug 18 17:59 12045 Aug 25 08:13 12045 Sep 07 16:10	17°S13'22 0°N 7°N13'29 13°N34'57 0°M 3°M01'28 6°M27'09 5°M59'39 1°M01'54 0°M56'37 30°RN 28°N00'55 26°N48'06 25°N07'41 22°N58'39 0°M	1°52'23 18°04'41 1°20'18 1°19'04 0.60713 AU
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evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 22 01:51 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45 12044 Aug 29 14:21 12044 Sep 01 22:10 12044 Sep 05 23:07 12044 Sep 12 04:21 12044 Sep 26 12:31 12044 Oct 05 11:51 12044 Oct 23 06:44 12044 Oct 23 08:38	24° \$\Omega 26'48\$ 0° \$\text{m}\$ 20° \$\text{m}\$ 03'53\$ 23° \$\text{m}\$ 49'34\$ 23° \$\text{m}\$ 32'03\$ 18° \$\text{m}\$ 54'46\$ 18° \$\text{m}\$ 54'47\$ 19° \$\text{m}\$ 01'59\$ 18° \$\text{m}\$ 47'33\$ 18° \$\text{m}\$ 54'32\$ 16° \$\text{m}\$ 11'35\$ 13° \$\text{m}\$ 28'25\$ 11° \$\text{m}\$ 46'17\$ 19° \$\text{m}\$ 27'47\$ 0° \$\text{\text{\$\te	0°00'05 0°00'09 0°00'09	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 10 20:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 15 02:13 12045 Aug 16 11:46 12045 Aug 18 17:59 12045 Aug 25 08:13 12045 Sep 07 16:10 12045 Sep 08 14:44 12045 Sep 29 16:54	17°\$13'22 0°\$\Omega\$ 7°\$\Omega\$13'29 13°\$\Omega\$34'57 0°\$\Omega\$ 3°\$\Omega\$01'28 6°\$\Omega\$27'09 5°\$\Omega\$59'39 1°\$\Omega\$01'54 0°\$\Omega\$56'37 30°\$\Omega\$028°\$\Omega\$00'55 26°\$\Omega\$48'06 25°\$\Omega\$07'41 22°\$\Omega\$58'39 0°\$\Omega\$0"\Omega\$54'35 0°\$\Omega\$	1°52'23 18°04'41 1°20'18 1°19'04 0.60713 AU
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evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 14:14 12044 Aug 29 10:44 12044 Aug 29 17:45 12044 Sep 01 22:10 12044 Sep 01 22:10 12044 Sep 12 04:21 12044 Sep 12 04:21 12044 Sep 26 12:31 12044 Oct 23 06:44 12044 Oct 23 06:44 12044 Oct 27 07:28 12044 Nov 03 06:14 12044 Nov 03 01:28 12044 Nov 03 01:28 12044 Nov 06 05:36 12044 Nov 10 00:26 12044 Nov 10 00:26 12044 Nov 21 04:41	24° \$\Omega 26'48 0° \$\text{m}\$ 20° \$\text{m}\$ 03'53 23° \$\text{m}\$ 49'34 23° \$\text{m}\$ 32'03 18° \$\text{m}\$ 54'46 18° \$\text{m}\$ 54'47 18° \$\text{m}\$ 54'47 19° \$\text{m}\$ 01'59 18° \$\text{m}\$ 47'33 18° \$\text{m}\$ 54'32 16° \$\text{m}\$ 11'35 13° \$\text{m}\$ 28'25 11° \$\text{m}\$ 46'17 19° \$\text{m}\$ 27'47 0° \$\text{m}\$ 29° \$\text{m}\$ 50'32 0° \$\text{m}\$ 8° \$\text{m}\$.08'44 23° \$\text{m}\$.22'45 23° \$\text{m}\$.13'00 22° \$\text{m}\$.56'09 0° \$\text{s}\$ 8° \$\text{s}\$ 14'55 0° \$\text{S}\$	0°00'05 0°00'09 0°00'09 0.58455 AU 27°18'52	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set max. Earth dist. superior conj	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 15 02:13 12045 Aug 18 17:59 12045 Aug 18 17:59 12045 Aug 25 08:13 12045 Sep 07 16:10 12045 Sep 08 14:44 12045 Sep 29 16:54 12045 Oct 10 03:26 12045 Oct 11 11:21 12045 Oct 17 09:26	17° \$\insightarrow{13'22} 0° \$\alpha\$ 7° \$\alpha\$13'29 13° \$\alpha\$34'57 0° \$\mathref{m}\$ 3° \$\mathref{m}\$01'28 6° \$\mathref{m}\$27'09 5° \$\mathref{m}\$59'39 1° \$\mathref{m}\$01'54 0° \$\mathref{m}\$56'37 30° \$\mathref{A}\$ 28° \$\alpha\$00'55 26° \$\alpha\$48'06 25° \$\alpha\$07'41 22° \$\alpha\$58'39 0° \$\mathref{m}\$ 0° \$\mathref{m}\$54'35 0° \$\mathref{n}\$ 19° \$\mathref{n}\$37'27 22° \$\mathref{n}\$21'53 0° \$\mathref{m}\$ 5° \$\mathref{m}\$.05'54 8° \$\mathref{m}\$.01'13 7° \$\mathref{m}\$.49'00 22° \$\mathref{m}\$.48'28	1°52'23 18°04'41 1°20'18 1°19'04 0.60713 AU 27°54'41 1.31489 AU 1°15'03
evening rise evening max el retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	12044 Jul 27 12:28 12044 Jul 30 11:43 12044 Aug 12 12:02 12044 Aug 19 22:56 12044 Aug 29 14:15 12044 Aug 29 14:14 12044 Aug 29 14:14 12044 Aug 29 17:45 12044 Aug 29 17:45 12044 Aug 29 17:45 12044 Sep 01 22:10 12044 Sep 05 23:07 12044 Sep 12 04:21 12044 Sep 12 04:21 12044 Sep 26 12:31 12044 Oct 23 06:44 12044 Oct 23 06:44 12044 Oct 23 08:38 12044 Oct 27 07:28 12044 Nov 03 06:14 12044 Nov 03 06:29 12044 Nov 03 01:28 12044 Nov 06 05:36 12044 Nov 06 05:36	24° \$\Omega 26'48 0° \$\text{m}\$ 20° \$\text{m}\$ 03'53 23° \$\text{m}\$ 49'34 23° \$\text{m}\$ 32'03 18° \$\text{m}\$ 54'46 18° \$\text{m}\$ 54'47 19° \$\text{m}\$ 01'59 18° \$\text{m}\$ 47'33 18° \$\text{m}\$ 54'32 16° \$\text{m}\$ 11'35 13° \$\text{m}\$ 28'25 11° \$\text{m}\$ 46'17 19° \$\text{m}\$ 27'47 0° \$\text{n}\$ 29° \$\text{n}\$ 50'32 0° \$\text{m}\$ 8° \$\text{m}\$.08'44 23° \$\text{m}\$.22'45 23° \$\text{m}\$.13'00 22° \$\text{m}\$.56'09 0° \$\text{s}\$ 8° \$\text{s}\$ 14'55	0°00'05 0°00'09 0°00'09 0.58455 AU 27°18'52 1°28'38 1°29'05 1.31325 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set inferior conj minimum elong	12045 Jun 29 02:59 12045 Jul 06 11:26 12045 Jul 10 12:41 12045 Jul 14 02:09 12045 Jul 24 08:10 12045 Jul 26 23:47 12045 Aug 02 16:20 12045 Aug 05 03:07 12045 Aug 11 21:44 12045 Aug 11 23:57 12045 Aug 12 23:33 12045 Aug 16 11:46 12045 Aug 18 17:59 12045 Aug 18 17:59 12045 Aug 25 08:13 12045 Sep 07 16:10 12045 Sep 08 14:44 12045 Sep 29 16:54 12045 Oct 10 03:26 12045 Oct 11 11:21 12045 Oct 17 09:26 12045 Oct 18 17:08 12045 Oct 18 17:08	17° \$\insightarrow{13'22} 0° \$\alpha\$ 7° \$\alpha\$13'29 13° \$\alpha\$34'57 0° \$\mathref{m}\$ 3° \$\mathref{m}\$01'28 6° \$\mathref{m}\$27'09 5° \$\mathref{m}\$59'39 1° \$\mathref{m}\$01'54 0° \$\mathref{m}\$56'37 30° \$\alpha\$ 28° \$\alpha\$00'55 26° \$\alpha\$48'06 25° \$\alpha\$07'41 22° \$\alpha\$58'39 0° \$\mathref{m}\$ 0° \$\mathref{m}\$54'35 0° \$\mathref{m}\$ 19° \$\mathref{m}\$37'27 22° \$\mathref{m}\$21'53 0° \$\mathref{m}\$ 5° \$\mathref{m}\$.05'54 8° \$\mathref{m}\$.01'13 7° \$\mathref{m}\$49'00	1°52'23 18°04'41 1°20'18 1°19'04 0.60713 AU 27°54'41 1.31489 AU 1°15'03

	12045 Nov 15 21:41	0°₹		avaning may al	12046 Nov. 02, 20:57	16° ∡ 18'17	22047100
arraning may al	12045 Nov 13 21.41 12045 Nov 21 09:59	6° ろ 03'18	25022147	evening max el	12046 Nov 02 20:57 12046 Nov 16 09:44	23° x 1817	23 47 09
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evening set	12045 Dec 03 06:31 12045 Dec 11 04:25	13 3 01 13		min. Earth dist.	12046 Nov 27 07:23	22 x ·13 23 19° x 14'51	0.55607 AU
min. Earth dist.	12045 Dec 15 22:08		0.57229 AU	inferior conj	12046 Nov 29 06:33	18° × 14 31	
	12045 Dec 13 22.08 12045 Dec 18 18:39	9 30223 7°37'02		3	12046 Nov 29 06.33 12046 Nov 29 09:25	18° ₹ '04'29 18° ₹ '00'12	
inferior conj		6° ろ 53'37		minimum elong			5-4/30
minimum elong	12045 Dec 19 02:35	6° ろ 53'37 2° ろ 52'41	5-04-23	morning rise	12046 Dec 07 18:21	14° 🗷 09'42	
morning rise	12045 Dec 27 03:07			direct	12046 Dec 10 11:28	13° 🗷 51'19	20000157
direct	12045 Dec 29 08:58	2°る37'40		morning max el	12046 Dec 20 23:44	18° ∡ ′51′28	20°09'56
asc. node	12046 Jan 06 03:29	5°る52'04	10001126	asc. node	12046 Dec 24 00:37	22° ₹ 09'25	
morning max el	12046 Jan 07 09:24	6° る 59'37	19°01'36		12046 Dec 29 11:55	0°る	
	12046 Jan 22 02:00	0° ≈		morning set	12047 Jan 08 05:05	18°る18'50	
morning set	12046 Jan 23 23:17	3° ≈ 42'08			12047 Jan 13 21:51	0° ≈	
superior conj	12046 Feb 01 08:31	20°≈08'17	0°53'28	superior conj	12047 Jan 15 20:52	3°≈57'49	1°15'18
minimum elong	12046 Feb 01 11:22	20°≈21'56	0°53'38	minimum elong	12047 Jan 15 23:35	4°≈11'28	1°15'43
minimum clong	12046 Feb 06 15:15	0° \	0 33 30	max. Earth dist.	12047 Jan 21 13:52	15°≈06'53	1.36750 AU
desc. node	12046 Feb 08 08:22	3° ∺ 05'16				13 ≈00 33 22°≈05'56	1.30/30 AU
			1 20050 ATT	evening rise	12047 Jan 25 08:21		
max. Earth dist.	12046 Feb 08 06:57	2°) 58'54	1.38950 AU	desc. node	12047 Jan 26 05:05	23°≈39'16	
evening rise	12046 Feb 12 02:37	9°) (40′20			12047 Jan 29 19:59	0°) €	
	12046 Feb 24 17:36	0° Υ			12047 Feb 18 13:51	0° Υ	
evening max el	12046 Mar 19 07:48		24°32'03	evening max el	12047 Mar 01 21:09	13° Y 14'06	25°45'15
	12046 Mar 19 22:43	0°8		retrograde	12047 Mar 14 08:08	20° Y 23'42	
retrograde	12046 Mar 30 20:31	6° ႘ 08′05		evening set	12047 Mar 20 08:29	17° Ƴ 55′25	
asc. node	12046 Apr 04 00:48	4° 8 49'44		asc. node	12047 Mar 21 22:12	16° Ƴ 26'54	
evening set	12046 Apr 05 09:11	3° 8 49'06		min. Earth dist.	12047 Mar 24 15:06	13° Ƴ 18'44	0.67425 AU
	12046 Apr 08 21:21	30° ₹Ƴ		inferior conj	12047 Mar 26 02:37	11° Y 26'10	1°17'45
min. Earth dist.	12046 Apr 09 22:43	28° Y 37'13	0.68299 AU	minimum elong	12047 Mar 26 00:53	11° Y 31'39	1°17'02
inferior conj	12046 Apr 10 22:03	27° Ƴ 19'12	2°01'09	morning rise	12047 Mar 31 17:53	5° Ƴ 36'29	
minimum elong	12046 Apr 10 19:54	27° Y ′26'24	2°00'10	direct	12047 Apr 04 02:16	4° Υ 32'19	
morning rise	12046 Apr 16 06:47	21° Y '20'14		morning max el	12047 Apr 10 21:08	8° Y 13'05	18°55'46
direct	12046 Apr 20 02:47	19° Y ′56′11		desc. node	12047 Apr 24 06:50	26° Y °12'22	
morning max el	12046 Apr 27 14:02	24° Υ '06'03	19°52'18	greatest brilliancy	12047 Apr 24 11:20	26° Y ′29'24	-0.8m
morning max or	12046 May 02 17:00	0°8	17 32 10	greatest orimaney	12047 Apr 26 18:28	0°8	0.0111
desc. node	12046 May 07 10:07	6° 8 22'45		morning set	12047 Apr 20 16:28 12047 May 03 13:37	10° 8 30'44	
desc. node	12046 May 07 10:07	0°II		morning set	12047 May 16 02:04	10 О 30 44	
morning set	12046 May 24 06:57	1° Ⅱ 33'17		max. Earth dist.	12047 May 10 02:04 12047 May 17 22:02		1.45491 AU
Č	12046 May 24 06:37 12046 Jun 04 05:06	1 Д 3517 18° Д 36'35	1.44509 AU	max. Earth dist.	1204/ May 1/ 22.02	2 113136	1.43491 AU
max. Earth dist.	12046 Jun 04 05:06	18-Щ3033	1.44509 AU	aumorior coni	12047 May 10, 22-22	6° Ⅱ 05'31	2011114
:	12046 I 00 00.14	26° Ⅱ 50'17	2010/20	superior conj	12047 May 19 23:22		
superior conj	12046 Jun 09 08:14			minimum elong	12047 May 19 19:48	5° Ⅱ 51'30	2-11-55
minimum elong	12046 Jun 09 11:56	27° Ⅲ 05'17	2°11'10		12047 Jun 03 22:47	0°©	
	12046 Jun 11 06:53	0°9		evening rise	12047 Jun 04 00:23	0° © 06'29	
evening rise	12046 Jun 22 18:08	19° © 09'56		asc. node	12047 Jun 17 20:01	21° © 59'55	
	12046 Jun 29 03:37	0 \circ Ω		evening max el	12047 Jun 24 02:57	29° © 55'31	18°28'37
asc. node	12046 Jun 30 23:02	2° Ω 59'26			12047 Jun 24 04:46	0 $^{\circ}\Omega$	
evening max el	12046 Jul 10 13:50	16° £ 21′32	18°07'34	retrograde	12047 Jun 30 13:53	3° Ω 24'18	
retrograde	12046 Jul 16 22:49	19° Ω 41'56		evening set	12047 Jul 03 16:57	2° Ω 29'27	
evening set	12046 Jul 19 17:40	19° Ω 01'43			12047 Jul 06 18:06	30° ₹ॐ	
inferior conj	12046 Jul 25 22:01	13° Ω 45'33	2°16'37	inferior conj	12047 Jul 09 10:55	26° © 56'58	2°52'05
minimum elong	12046 Jul 26 00:38	13° Ω 38′29	2°15'16	minimum elong	12047 Jul 09 12:55	26°951'01	2°50'57
min. Earth dist.	12046 Jul 28 15:46	10° Ω 48'43	0.62952 AU	min. Earth dist.	12047 Jul 11 14:44	24° © 22'37	0.64962 AU
morning rise	12046 Aug 01 05:42	7° Ω 33'35		morning rise	12047 Jul 15 07:45	20°536'19	
desc. node	12046 Aug 03 09:09	6° Ω 12'29		desc. node	12047 Jul 21 06:28	17° © 56'49	
direct	12046 Aug 07 22:09	5° Ω 04'01		direct	12047 Jul 21 20:38	17° © 55'35	
morning max el	12046 Aug 21 22:37	13° Ω 06′15	27°51'47	morning max el	12047 Aug 04 09:16	25°952'45	27°14'10
	12046 Sep 04 11:28	0° m)			12047 Aug 04 05:10	0° Ω	
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morning set	12046 Sep 25 08:38	6° ჲ 13'31		morning set	12047 Aug 25 00:45 12047 Sep 08 20:37	19° mp 36'32	
asc. node	12046 Sep 23 08.38 12046 Sep 27 00:08	9° £ 35'05		max. Earth dist.	12047 Sep 08 20.37 12047 Sep 13 07:35	28° m/30'40	1.33361 AU
	=		1 22166 ATT		-	28° m/38'38	1.55501 AU
max. Earth dist.	12046 Sep 30 12:46	17° ≏ 00'18	1.32166 AU	asc. node	12047 Sep 13 20:49 12047 Sep 14 00:58	29° III 38'38 0° <u>Ω</u>	
					120T/ DCP 17 UU.JO	· —	
superior coni	12046 Oct 03 01:20	22° Ω 27'5∆	0°56'02		i		
superior conj	12046 Oct 03 01:20	22° £ 27'54	0°56'02 0°55'54	superior coni	•	6° Ω 36'51	0°31'50
superior conj minimum elong	12046 Oct 02 23:10	22° ≏ 16′04	0°56'02 0°55'54	superior conj	12047 Sep 17 04:45	6° £ 36'51 6° £ 28'45	0°31'50
minimum elong	12046 Oct 02 23:10 12046 Oct 06 11:53	22° £ 16′04 0° M		minimum elong	12047 Sep 17 04:45 12047 Sep 17 03:13	6° ≏ 28'45	0°31'50 0°31'33
	12046 Oct 02 23:10 12046 Oct 06 11:53 12046 Oct 09 21:25	22° £ 16'04 0° M 7° M 23'30		1 3	12047 Sep 17 04:45 12047 Sep 17 03:13 12047 Sep 24 08:16	6° £ 28'45 21° £ 54'31	
minimum elong	12046 Oct 02 23:10 12046 Oct 06 11:53	22° £ 16′04 0° M		minimum elong	12047 Sep 17 04:45 12047 Sep 17 03:13	6° ≏ 28'45	0°31'33

J J.	12047 0-+ 17 02-14	270 m 50147		habind and and	12049 A 21 06-27	200 m 51126	
desc. node	12047 Oct 17 03:14	27°M59'47		behind sun end	12048 Aug 31 06:37	20° m 51'26	
ratra ara da	12047 Oct 19 19:17 12047 Oct 28 01:40	0° 🗷 2° ⋅₹ 41!22		avanina rias	12048 Sep 04 16:30	0° ჲ 6° ჲ 16'26	
retrograde		2° х ⁷ 41'22 2° х ⁷ 18'03		evening rise	12048 Sep 07 16:45	0°M	
evening set	12047 Oct 31 07:23 12047 Nov 06 02:22	30°RM		avanina may al	12048 Sep 20 15:55 12048 Sep 26 06:36	6°M52'26	20°36'57
min. Earth dist.	12047 Nov 08 02.22 12047 Nov 08 14:14	28°M38'15	0.54676 AU	evening max el desc. node	12048 Oct 03 00:38	11°M34'48	20 30 37
inferior conj	12047 Nov 08 14.14 12047 Nov 09 02:41	28°M20'47		retrograde	12048 Oct 03 00.38 12048 Oct 07 12:44	12°M27'43	
minimum elong	12047 Nov 09 02.41 12047 Nov 08 20:58	28°M28'49		evening set	12048 Oct 07 12.44 12048 Oct 09 17:22	12°M15'56	
morning rise	12047 Nov 08 20:38 12047 Nov 17 11:52	24°M33'43	3 36 03	inferior conj	12048 Oct 18 18:45	8°M20'44	4°32'11
direct	12047 Nov 17 11:32 12047 Nov 20 22:39	24°M07'19		minimum elong	12048 Oct 18 08:43	8°M35'11	4°28'59
morning max el	12047 Nov 20 22:39 12047 Dec 03 00:07	29°M51'18	21°40'15	min. Earth dist.	12048 Oct 18 08:43	7°M41'44	0.54663 AU
morning max cr	12047 Dec 03 00:07 12047 Dec 03 03:47	0° 7	21 40 13	morning rise	12048 Oct 19 21:47 12048 Oct 26 23:45	4°M22'05	0.54005 AO
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asc. Houc	12047 Dec 10 21:41 12047 Dec 22 03:27	9 ス 32 37		morning max el	12048 Nov 13 13:34	10°M08'20	23°25'50
morning set	12047 Dec 22 03:27 12047 Dec 23 14:51	3°る04'06		asc. node	12048 Nov 26 18:39	27°M45'36	23 23 30
morning set	1204/ Dec 23 14.51	3 00400		asc. node	12048 Nov 28 01:32	27 IIC43 30 0° 🗖	
superior aoni	12047 Dec 30 19:08	18°る14'07	1920/45	morning set	12048 Nov 28 01.32 12048 Dec 07 02:27	17° ∡ ¹50'50	
superior conj		18° る 24'01	1°29'43 1°30'26	morning set		0°る	
minimum elong	12047 Dec 30 21:02				12048 Dec 12 17:15	0.0	
max. Earth dist.	12048 Jan 04 01:28	26° る 59'11	1.34786 AU		12040 D 14 00 05	20746140	1027122
	12048 Jan 05 13:49	0° ≈		superior conj	12048 Dec 14 00:05	2° 3 46'49	1°37'22
evening rise	12048 Jan 08 06:32	5°≈13'38		minimum elong	12048 Dec 14 00:52	2°る51'03	1°38'11
desc. node	12048 Jan 13 01:51	14°≈05'02		max. Earth dist.	12048 Dec 16 20:50	8°る54'06	1.33208 AU
	12048 Jan 22 14:50	0°)		evening rise	12048 Dec 21 17:28	18° ප 52'56	
evening max el	12048 Feb 12 10:44	26°) 58'41	26°44'21		12048 Dec 27 13:19	0° ≈	
	12048 Feb 15 20:31	0° Υ		desc. node	12048 Dec 29 22:41	4°≈16'51	
retrograde	12048 Feb 25 14:26	4° Υ 21'31			12049 Jan 15 18:59	0° ∀	
evening set	12048 Mar 03 01:15	1° Y ′48'47		evening max el	12049 Jan 24 23:56	10° ∺ 27'11	27°22'10
	12048 Mar 05 01:04	30° ₹		retrograde	12049 Feb 07 14:19	17° ¥ 52'18	
min. Earth dist.	12048 Mar 07 02:09	27°) € 46′04	0.66153 AU	evening set	12049 Feb 14 09:16	15° ∺ 21′20	
asc. node	12048 Mar 07 19:36	26° ¥ 55′08		min. Earth dist.	12049 Feb 18 05:42	11° ∺ 50′36	
inferior conj	12048 Mar 09 01:43	25° ∺ 25'59	0°24'13	inferior conj	12049 Feb 20 16:50	9° ∺ 12'01	
minimum elong	12048 Mar 09 01:04	25° ∺ 27'54	0°24'06	minimum elong	12049 Feb 20 18:01	9° ₩ 08'48	0°38'36
morning rise	12048 Mar 15 02:04	19° ∺ 47'20		asc. node	12049 Feb 22 16:59	7° ∺ 06'42	
direct	12048 Mar 18 00:07	19° 米 00′13		morning rise	12049 Feb 27 04:38	3°) (46′46	
morning max el	12048 Mar 24 10:23	22°) €24'27	18°15'36	direct	12049 Mar 01 17:57	3° 升 13′08	
	12048 Mar 30 13:49	0° Y		morning max el	12049 Mar 08 03:16	6°) 32′10	17°52'26
desc. node	12048 Apr 10 03:30	16° Ƴ 21'36			12049 Mar 23 23:19	0 ° Υ	
morning set	12048 Apr 12 20:36	20° Y '42'19		morning set	12049 Mar 25 08:17	2° Ƴ 17'59	
	12048 Apr 18 16:20	0°B		desc. node	12049 Mar 28 00:05	6° Ƴ 44'21	
superior conj	12048 Apr 28 06:28	15° 8 06'47	-1°51'49	superior conj	12049 Apr 07 23:18	24° Ƴ 40'02	-1°16'54
minimum elong	12048 Apr 27 21:27	14° 8 31'29		minimum elong	12049 Apr 07 15:18	24°Υ08'00	
max. Earth dist.	12048 Apr 29 17:20	17° 8 23'03	1.45746 AU	minimum clong	12049 Apr 11 07:44	0°8	1 1011
max. Latin dist.	12048 May 07 19:29	0°Ⅱ	1.43/40 AC	max. Earth dist.	12049 Apr 12 12:55	_	1.45257 AU
evening rise	12048 May 14 06:51	10° Ⅱ 05'46		evening rise	12049 Apr 23 20:57	19° 8 30'52	1.43237 AO
greatest brilliancy	12048 May 25 07:32	27° I 11'53	-0.8m	evening rise	12049 Apr 30 18:15	0°Ⅱ	
greatest offinality	12048 May 27 04:06	0°95	-0.8111	greatest brilliancy	12049 May 08 20:15	12° ∏ 01'12	0.6m
asc. node	12048 Jun 03 17:05	10°\$28'18		evening max el	12049 May 08 20:13	27° I I23'04	
evening max el	12048 Jun 06 12:42	13°937'38	19°07'01	asc. node	12049 May 20 17:19 12049 May 21 14:13	28° I I13'44	20 01 22
retrograde	12048 Jun 13 10:00	17° © 27'22	19 0/01	asc. Houc	12049 May 21 14:13	0°95	
evening set	12048 Jun 16 21:45	17 3 2722		retrograde	12049 May 28 08:26	1° 9 344'56	
inferior conj	12048 Jun 22 08:54	10°\$29'28	3°10'26	evening set	12049 Jun 01 05:33	0°917'51	
3	12048 Jun 22 09:51	10 \$2928 10°\$26'24	3°09'31	evening set	12049 Jun 01 03.33	0 €31731 30°R∏	
minimum elong							201.4150
min. Earth dist.	12048 Jun 23 21:56	8°930'24	0.66604 AU	inferior conj	12049 Jun 06 12:58	24° Ⅱ 17'14	
morning rise	12048 Jun 27 21:21	4°506'41		minimum elong	12049 Jun 06 12:49	24° Ⅱ 17'43	3°14'01
direct	12048 Jul 04 02:15	1°525'18		min. Earth dist.	12049 Jun 07 11:32	23° Ⅱ 00'54	0.67801 AU
desc. node	12048 Jul 07 03:42	1°958'43	2.000012.5	morning rise	12049 Jun 11 19:46	17° I I56′28	
morning max el	12048 Jul 16 20:06	9° © 02'04	26°09'37	direct	12049 Jun 17 13:40	15° Ⅱ 23'48	
	12048 Aug 02 07:20	0° N		desc. node	12049 Jun 24 00:49	17° Ⅲ 52'11	24045140
	12048 Aug 20 12:56	0° m)		morning max el	12049 Jun 29 06:05	22° ∏ 24'19	24~47'48
morning set	12048 Aug 21 19:53	2° m/22'35			12049 Jul 05 21:43	0°©	
max. Earth dist.	12048 Aug 25 15:59	9° m/39'38	1.35062 AU		12049 Jul 26 14:26	0°Ω	
asc. node	12048 Aug 30 17:28	19° m 44'17		morning set	12049 Aug 04 02:11	14° Ω 21'10	
				max. Earth dist.	12049 Aug 07 16:02	20° Ω 46'53	1.37170 AU
superior conj	12048 Aug 31 00:51	20° Tp 21'53	0°02'58		12049 Aug 12 14:00	0° т р	
minimum elong	12048 Aug 31 00:41	20° m/21'04	0°02'43				
behind sun begin	12048 Aug 30 18:45	19° m 50'46		superior conj	12049 Aug 14 10:33	3°m/35'38	-0°29'34

minimum elong	12049 Aug 14 12:30	3°m/45'10	0°29'39	superior conj	12050 Jul 28 05:56	16° Ω 07'39	
asc. node	12049 Aug 17 14:09	9° m 48'48		minimum elong	12050 Jul 28 10:27		1°03'42
evening rise	12049 Aug 22 20:32	20° TD 23'32		asc. node	12050 Aug 04 10:51	29° Ω 47'34	
	12049 Aug 27 17:59	0∘ ⊽			12050 Aug 04 13:25	0° ™	
evening max el	12049 Sep 08 18:31	18° ≏ 08'29	19°27'04	evening rise	12050 Aug 06 16:39	4° m 07'13	
retrograde	12049 Sep 18 08:05	22° ≏ 54'36			12050 Aug 22 14:35	0∘ ⊽	
desc. node	12049 Sep 19 22:04	22° ≏ 47'19		evening max el	12050 Aug 22 18:43	0° ≏ 10'22	18°38'49
evening set	12049 Sep 20 04:32	22° ≏ 44'39		retrograde	12050 Aug 30 21:17	4° ≙ 14'40	
inferior conj	12049 Sep 28 21:18	18° ≏ 38'04	-2°47'03	evening set	12050 Sep 01 20:21	4° ≙ 01'11	
minimum elong	12049 Sep 28 14:00	18° ≏ 49'49	2°44'09	desc. node	12050 Sep 06 19:31	1° ≏ 44'02	
min. Earth dist.	12049 Oct 01 08:15	17° ≏ 03'21	0.55588 AU		12050 Sep 09 06:33	30°R, Mp	
morning rise	12049 Oct 06 21:11	14° ≏ 09'43		inferior conj	12050 Sep 09 19:42	29° m 35'23	-0°56'36
direct	12049 Oct 12 00:43	13° ≏ 10'10		minimum elong	12050 Sep 09 17:24	29° m 39'42	0°55'46
morning max el	12049 Oct 26 00:03	20° ≏ 11'12	25°12'16	min. Earth dist.	12050 Sep 13 00:02	27° m 12'41	0.57265 AU
	12049 Nov 03 09:19	0° M		morning rise	12050 Sep 17 11:01	24° m 29'10	
asc. node	12049 Nov 13 15:30	16°M36'15		direct	12050 Sep 23 07:56	23° m 03'51	
	12049 Nov 20 09:05	0° ∡			12050 Oct 07 01:20	0∘ ত	
morning set	12049 Nov 21 14:08	2° ∡ ³34′29		morning max el	12050 Oct 07 15:03	0° ჲ 32'34	26°41'28
					12050 Oct 28 09:26	0° M	
superior conj	12049 Nov 28 09:16	17° ∡ °28'51	1°38'37	asc. node	12050 Oct 31 12:17	5° ™ 54'25	
minimum elong	12049 Nov 28 08:55	17° ∡ ¹26'57	1°39'25	morning set	12050 Nov 06 00:11	17° ™ ₊10'07	
max. Earth dist.	12049 Nov 29 23:41	20° ∡ 59'58	1.32093 AU	_	12050 Nov 11 20:34	0° ∡ ¹	
	12049 Dec 04 04:12	8°0					
evening rise	12049 Dec 05 13:59	2° る 55'52		superior conj	12050 Nov 12 20:35	2° ҂ 13'52	1°33'55
desc. node	12049 Dec 16 19:38	24° る 08'32		minimum elong	12050 Nov 12 19:16	2° х 06'33	1°34'32
	12049 Dec 20 08:42	0° ≈		max. Earth dist.	12050 Nov 13 07:19	3° ∡ 13'42	1.31462 AU
evening max el	12050 Jan 07 10:50	23° ≈ 26'44	27°31'46	evening rise	12050 Nov 19 17:23	17° ∡ 15′08	
•	12050 Jan 17 01:56	0° ∀		•	12050 Nov 26 01:09	0°రె	
retrograde	12050 Jan 21 06:46	0°) 47′01		desc. node	12050 Dec 03 16:42	13° る 31'41	
	12050 Jan 25 07:15	30°R≈			12050 Dec 15 08:13	0° ≈	
evening set	12050 Jan 28 05:54	28° ≈ 25'18		evening max el	12050 Dec 20 16:44	5°≈44'08	27°08'13
min. Earth dist.	12050 Jan 31 23:46	25° ≈ 22'33	0.62597 AU	retrograde	12051 Jan 03 14:56	12°≈56'53	
inferior conj	12050 Feb 03 21:00	22° ≈ 36'45	-1°52'23	evening set	12051 Jan 10 11:50	10° ≈ 52'48	
minimum elong	12050 Feb 04 00:47	22° ≈ 27'40	1°50'16	min. Earth dist.	12051 Jan 14 07:08	8° ≈ 10'17	0.60480 AU
asc. node	12050 Feb 09 14:19	18° ≈ 02'46		inferior conj	12051 Jan 17 10:50	5° ≈ 31'11	-3°11'19
morning rise	12050 Feb 10 22:09	17° ≈ 28′03		minimum elong	12051 Jan 17 17:29	5°≈17'10	3°08'11
direct	12050 Feb 13 04:44	17° ≈ 04'13		morning rise	12051 Jan 25 02:00	0° ≈ 42'21	
morning max el	12050 Feb 19 20:47	20° ≈ 28'12	17°46'52	direct	12051 Jan 27 04:32	0° ≈ 24'46	
C	12050 Feb 27 00:42	0° ∀		asc. node	12051 Jan 27 11:35	0° ≈ 25'07	
morning set	12050 Mar 07 20:08	15°) €02'45		morning max el	12051 Feb 03 11:39	4° ≈ 03'38	17°59'53
desc. node	12050 Mar 14 20:39	27°) 16′22		morning set	12051 Feb 19 01:48	28° ≈ 37'07	
	12050 Mar 16 10:58	$0^{\circ}\mathbf{Y}$		•	12051 Feb 19 19:46	0° ∀	
superior conj	12050 Mar 19 14:13	5° Y 16'59	-0°35'45	superior conj	12051 Mar 01 05:42	17°) €03'18	0°03'46
minimum elong	12050 Mar 19 10:39	5° Y ′02'07	0°35'13	minimum elong	12051 Mar 01 06:02	17° ∺ 04'46	0°03'59
max. Earth dist.	12050 Mar 26 06:29	16° Ƴ 13′09	1.44078 AU	behind sun begin	12051 Feb 28 22:17	16°) 30′36	
evening rise	12050 Apr 03 09:35	29° Y ′01′05		behind sun end	12051 Mar 01 13:48	17°) 38′51	
	12050 Apr 04 00:51	0° 8		desc. node	12051 Mar 01 17:15	17° ¥ 54′00	
	12050 Apr 24 12:09	Π $^{\circ}0$			12051 Mar 08 19:35	0°Ƴ	
evening max el	12050 May 03 16:09	11° Ⅱ 09′04	21°08'56	max. Earth dist.	12051 Mar 08 19:44	0° Y 00'38	1.42331 AU
asc. node	12050 May 08 11:25	15° Ⅱ 02'27		evening rise	12051 Mar 14 11:03	9° Ƴ 10'14	
retrograde	12050 May 12 07:05	16° Ⅱ 11′23			12051 Mar 28 03:30	0° ႘	
evening set	12050 May 16 14:22	14° Ⅱ 28′03		evening max el	12051 Apr 16 09:58	24° 8 56'17	22°25'44
inferior conj	12050 May 21 20:40	8° Ⅱ 15'34	3°07'25		12051 Apr 23 02:22	Π $^{\circ}0$	
minimum elong	12050 May 21 19:34	8° Ⅱ 19′23	3°06'34	asc. node	12051 Apr 25 08:42	0°Ⅲ39′06	
min. Earth dist.	12050 May 22 05:33	7° Ⅱ 44'41	0.68531 AU	retrograde	12051 Apr 26 04:22	0° Ⅲ 42'17	
morning rise	12050 May 27 00:34	1° Ⅱ 59′07			12051 Apr 29 01:17	30°₽ ႘	
	12050 May 30 07:29	30° ₹ 8		evening set	12051 Apr 30 22:34	28° 8 43'40	
direct	12050 Jun 01 05:45	29° 8 42'06		inferior conj	12051 May 06 05:58	22° 8 21'37	2°49'30
	12050 Jun 03 06:18	$\Pi^{\circ}0$		minimum elong	12051 May 06 04:11	22° 8 27'52	2°48'33
desc. node	12050 Jun 10 21:51	5° Ⅱ 09'07		min. Earth dist.	12051 May 06 01:59	22° 8 35'33	0.68794 AU
morning max el	12050 Jun 11 16:14	5° Ⅱ 54'34	23°18'26	morning rise	12051 May 11 09:40	16° 8 10'52	
	12050 Jun 30 07:14	0oo		direct	12051 May 16 01:37	14° 8 13'34	
morning set	12050 Jul 16 10:33	25° © 19'11		morning max el	12051 May 25 05:23	19° 8 34'05	21°50'40
	12050 Jul 19 04:52	$0^{\circ}\Omega$		desc. node	12051 May 28 18:46	23° 8 27'36	
max. Earth dist.	12050 Jul 20 13:39	2° Ω 21′22	1.39482 AU		12051 Jun 02 23:30	$\Pi^{\circ}0$	
					12051 Jun 23 11:16	0 \circ \odot	

morning set max. Earth dist.	12051 Jun 26 17:27 12051 Jul 02 14:45	5°909'07 14°944'15	1.41730 AU	max. Earth dist.	12052 Jun 13 22:05 12052 Jun 15 04:19	27°∏58'06 0°©	1.43644 AU
superior conj	12051 Jul 10 06:38	27° 5 48'22	-1°36'15	superior conj	12052 Jun 20 08:34	8°\$29'20	-2°01'41
minimum elong	12051 Jul 10 13:13	28° © 17'15	1°36'15	minimum elong	12052 Jun 20 14:40	8°954'40	2°02'07
	12051 Jul 11 12:33	$0^{\circ}\Omega$		evening rise	12052 Jul 02 18:22	29° 5 345'11	
evening rise	12051 Jul 21 01:29	17° Ω 18′21			12052 Jul 02 21:45	0 $^{\circ}\Omega$	
asc. node	12051 Jul 22 07:37	19° Ω 37'01		asc. node	12052 Jul 08 04:29	9° Ω 12'16	
	12051 Jul 28 02:22	0° m		evening max el	12052 Jul 19 16:34	25° Ω 59'02	18°03'38
evening max el	12051 Aug 06 03:24	12° m 50'31	18°11'25	retrograde	12052 Jul 26 04:46	29° Ω 20'43	
retrograde	12051 Aug 13 05:19	16° Mp 26'14		evening set	12052 Jul 28 18:53	28° Ω 48'14	1046155
evening set	12051 Aug 15 11:21	16° Mp 04'59	0027100	inferior conj	12052 Aug 04 07:01	23° Ω 42'42	1°46'57
inferior conj minimum elong	12051 Aug 22 15:51 12051 Aug 22 17:03	11° Mp 18'43 11° Mp 16'05	0°37'08 0°36'20	minimum elong min. Earth dist.	12052 Aug 04 09:34 12052 Aug 07 07:42	23°Ω36'15 20°Ω40'35	1°45'36 0.61685 AU
desc. node	12051 Aug 22 17:05 12051 Aug 24 16:56	9° mg 30'21	0 30 20	morning rise	12052 Aug 07 07:42 12052 Aug 10 21:47	$17^{\circ}\Omega 39'35$	0.01083 AU
min. Earth dist.	12051 Aug 25 23:27	8° m) 25'04	0.59402 AU	desc. node	12052 Aug 10 14:20	17° Ω 52'45	
morning rise	12051 Aug 29 19:25	5° mp 38'51	0.09.102110	direct	12052 Aug 17 13:51	15° Ω 20'24	
direct	12051 Sep 05 05:05	3° m) 44'53		morning max el	12052 Aug 31 18:27	23° Ω 21'00	27°57'56
morning max el	12051 Sep 19 13:30	11° m) 34'05	27°38'51	C	12052 Sep 06 17:02	0° m	
	12051 Oct 04 00:07	0∘ ⊽			12052 Sep 26 06:43	0∘ ⊽	
asc. node	12051 Oct 18 09:01	25° ≏ 32'43		morning set	12052 Oct 04 08:20	15° ≏ 38'30	
	12051 Oct 20 13:07	0° M		asc. node	12052 Oct 04 05:44	15° ≏ 25'06	
morning set	12051 Oct 21 06:55	1°M33'11		max. Earth dist.	12052 Oct 09 22:30	27° ≏ 31'19	1.31709 AU
max. Earth dist.	12051 Oct 27 16:12	15°M27'28	1.31330 AU		12052 Oct 11 01:39	0°M	
superior conj	12051 Oct 28 08:11	16°M56'27	1°23'32	superior conj	12052 Oct 11 18:14	1°M31'17	1°07'38
minimum elong	12051 Oct 28 06:11	16°M45'21	1°23'51	minimum elong	12052 Oct 11 15:59	1°M18'52	1°07'39
	12051 Nov 03 05:56	0° ∡ ¹		evening rise	12052 Oct 18 12:02	16° M 20′12	
evening rise	12051 Nov 04 01:24	1° ∡ °45′00			12052 Oct 25 04:02	0° ∡ 7	
	12051 Nov 19 02:47	0°ಕ		desc. node	12052 Nov 06 11:06	20° ∡ °03′19	
desc. node	12051 Nov 20 13:52	2°る15'00		evening max el	12052 Nov 13 05:34	27° ∡ ¹47'56	24°44'25
evening max el	12051 Dec 02 15:08	17°る10'24	26°10'28		12052 Nov 15 17:37	0°る	
retrograde	12051 Dec 16 13:29	24°る14'51 22°る37'07		retrograde	12052 Nov 27 00:20	4°る41'45 3°る36'03	
evening set min. Earth dist.	12051 Dec 22 22:52 12051 Dec 27 04:17	22° る 3/0/ 20° る 01'30	0.58351 AU	evening set min. Earth dist.	12052 Dec 02 10:46 12052 Dec 07 17:20	0° ろ 49'49	0.56465 AU
inferior conj	12051 Dec 27 04:17 12051 Dec 30 06:46	17°る45'23		iiiii. Eartii dist.	12052 Dec 07 17:20 12052 Dec 09 00:46	0°R √	0.30403 AO
minimum elong	12051 Dec 30 15:11	17° る 29'58		inferior conj	12052 Dec 10 06:25	29° √ 12'22	-5°29'28
morning rise	12052 Jan 07 10:17	13° る 18'37		minimum elong	12052 Dec 10 12:54	29°×7'02'00	5°27'40
direct	12052 Jan 09 12:56	13° る 03'50		morning rise	12052 Dec 18 17:10	25° ₹ 06'55	
asc. node	12052 Jan 14 08:49	14° පි 26'06		direct	12052 Dec 21 02:38	24° х 51′06	
morning max el	12052 Jan 17 20:03	17° る 07'32	18°32'55	morning max el	12052 Dec 30 18:01	29° ∡ ¹28'59	19°27'50
	12052 Jan 26 23:46	0° ≈ ≈		asc. node	12052 Dec 31 05:59	29° х 58'30	
morning set	12052 Feb 02 19:51	12° ≈ 44′23			12052 Dec 31 06:35	ರ∘ರ	
				morning set	12053 Jan 16 22:16	27° る 13'14	
superior conj	12052 Feb 11 18:19	29° ≈ 47'45	0°37'24		12053 Jan 18 07:28	0° ≈	
minimum elong	12052 Feb 11 20:43	29°≈58'56	0°37'31				
	12052 Feb 11 20:57	0°) {		superior conj	12053 Jan 24 23:18	13°≈17'12	
desc. node	12052 Feb 16 13:53	8° ¥ 33'00 13° ¥ 05'29	1 40222 ATT	minimum elong	12053 Jan 25 02:13	13°≈31'26	1°03'54
max. Earth dist.	12052 Feb 19 03:58 12052 Feb 23 08:44	20° X 13'34	1.40222 AU	max. Earth dist. desc. node	12053 Jan 31 10:00 12053 Feb 02 10:35	25°≈30'15 29°≈10'08	1.37995 AU
evening rise	12052 Feb 29 09:26	20 Υ 13 34 0° Υ		desc. node	12053 Feb 02 10.55 12053 Feb 02 21:45	29 ≈ 10 08	
	12052 Mar 21 08:27	0°8		evening rise	12053 Feb 02 21:43 12053 Feb 04 03:33	2°) 11'46	
evening max el	12052 Mar 29 00:34	8° 8 45'25	23°46'30	evening rise	12053 Feb 21 13:30	0°Υ	
retrograde	12052 Apr 08 22:49	15° 8 11'32	23 .030	evening max el	12053 Mar 11 14:08	22° Y ′36'52	25°04'32
asc. node	12052 Apr 11 06:02	14° 8 47'03		retrograde	12053 Mar 23 13:11	29° Y ′33'37	
evening set	12052 Apr 14 04:33	12° 8 59'23		evening set	12053 Mar 29 06:45	27° Y 10'29	
min. Earth dist.	12052 Apr 18 22:37	7° 8 26'50	0.68601 AU	asc. node	12053 Mar 29 03:25	27° Y °17'28	
inferior conj	12052 Apr 19 14:57	6° 8 31'01	2°21'39	min. Earth dist.	12053 Apr 02 17:15	22° Y 13'22	0.67974 AU
minimum elong	12052 Apr 19 12:48	6° 8 38'21	2°20'39	inferior conj	12053 Apr 03 21:42	20° Y '40'08	1°43'59
morning rise	12052 Apr 24 21:04	0° 8 27'12		minimum elong	12053 Apr 03 19:39	20° Y 46′50	1°43'05
	12052 Apr 25 12:06	30° ₹ Υ		morning rise	12053 Apr 09 08:51	14° Y ′44'37	
direct	12052 Apr 29 00:06	28° Y 51′05		direct	12053 Apr 12 23:47	13° Y ′29'12	
	12052 May 02 18:36	0°8	20021112	morning max el	12053 Apr 20 03:07	17° Y 25'18	19°26'14
morning max el	12052 May 07 00:28	3° 8 24'11	20°31'43	dono 1-	12053 Apr 30 01:42	0°8	
desc. node	12052 May 14 15:36	12° ႘ 30′21		desc. node	12053 May 01 12:22	2° 8 05'26	-0.7m
morning set	12052 May 26 20:47 12052 Jun 05 01:23	0° П 13° П 59'22		greatest brilliancy morning set	12053 May 02 20:06 12053 May 15 01:48	4° 8 01'51 22° 8 34'56	-U. / III
morning set	12002 Juli 00 01.25	13 1137 44		morning set	12000 Iviay 10 01.48	22 U 3430	

	1205234 10 21 01	00 T			10054 4 00 10 40	0014	
P. d. F.	12053 May 19 21:01	0°П	1 45012 411		12054 Apr 23 10:42	0°8	
max. Earth dist.	12053 May 27 12:05	П°Щ55′32	1.45013 AU	morning set	12054 Apr 24 17:23	2° 8 00'22	
aumariar aani	12052 May 21 10:51	18° Ⅱ 11'13	2012114	aumariar aani	12054 May 10, 20:26	27° 8 14'46	2005122
superior conj	12053 May 31 10:51	18° Д 11'13		superior conj	12054 May 10 20:26 12054 May 10 13:52	26° 8 49'05	
minimum elong	12053 May 31 11:46 12053 Jun 07 18:29	18 ш 1431	2 14 03	minimum elong max. Earth dist.	12054 May 10 15.52 12054 May 10 06:50		2 03 42 1.45691 AU
evening rise	12053 Jun 14 14:19	11°9516'27		max. Earth dist.	12054 May 12 14:41	0°Ⅱ	1.43091 AU
asc. node	12053 Jun 25 01:25	28°\$27'32		evening rise	12054 May 26 10:07	21° ∏ 47'37	
asc. node	12053 Jun 26 01:20	0°Ω		evening rise	12054 May 31 13:48	0°95	
evening max el	12053 Jul 03 06:39	9° Ω 26'29	18°14'23	greatest brilliancy	12054 Jun 03 07:56	4°9521'48	-0.9m
retrograde	12053 Jul 09 15:14	12° Ω 48'29	10 1123	asc. node	12054 Jun 11 22:27	17° © 15'53	0.5111
evening set	12053 Jul 12 13:38	12°Ω02'09		evening max el	12054 Jun 16 18:41	23°905'20	18°42'55
inferior conj	12053 Jul 18 13:08	6° Ω 39'02	2°33'56	retrograde	12054 Jun 23 08:52	26°5541'16	10 .200
minimum elong	12053 Jul 18 15:33	6°Ω32'09	2°32'40	evening set	12054 Jun 26 15:40	25° © 39'35	
min. Earth dist.	12053 Jul 21 01:15	3° Ω 49'49	0.63851 AU	inferior conj	12054 Jul 02 06:18	20°900'32	3°01'43
morning rise	12053 Jul 24 15:58	0° Ω 22'42		minimum elong	12054 Jul 02 07:52	19° © 55'40	3°00'42
S	12053 Jul 25 03:58	30°Rூ		min. Earth dist.	12054 Jul 04 03:44	17° 5 540'19	0.65711 AU
desc. node	12053 Jul 28 11:41	28° © 14'24		morning rise	12054 Jul 07 23:16	13° © 38'35	
direct	12053 Jul 31 07:43	27° © 46'55		direct	12054 Jul 14 09:14	10° © 56'38	
	12053 Aug 07 02:30	$0^{\circ}\Omega$		desc. node	12054 Jul 15 08:57	11° © 00'05	
morning max el	12053 Aug 14 03:35	5° Ω 48'09	27°39'33	morning max el	12054 Jul 27 14:32	18° 5 46'11	26°49'33
	12053 Sep 01 13:26	0° m			12054 Aug 06 02:28	$0^{\circ}\Omega$	
morning set	12053 Sep 18 02:00	29° m 18'55			12054 Aug 25 13:28	0° m	
_	12053 Sep 18 10:15	0∘ ⊽		morning set	12054 Sep 01 09:01	12° m 27'38	
asc. node	12053 Sep 21 02:23	5° ≙ 25'51		max. Earth dist.	12054 Sep 05 13:14	20° m 37'45	1.34036 AU
max. Earth dist.	12053 Sep 22 22:29	9° ≙ 15'46	1.32613 AU	asc. node	12054 Sep 07 23:03	25° m 31'08	
superior conj	12053 Sep 26 00:41	15° ≏ 51'35	0°46'24	superior conj	12054 Sep 10 01:20	29° m 51'41	0°20'08
minimum elong	12053 Sep 25 22:43	15° ≙ 40'55	0°46'11	minimum elong	12054 Sep 10 00:18	29°M/46'16	0°19'50
evening rise	12053 Oct 02 23:20	0° M 54'30			12054 Sep 10 02:55	0∘ ⊽	
	12053 Oct 02 13:10	0° M		evening rise	12054 Sep 17 09:28	15° ≏ 23'03	
	12053 Oct 18 23:37	0° ∡ ¹			12054 Sep 24 17:12	0° M	
desc. node	12053 Oct 24 08:26	6° ∡ ³34'47		evening max el	12054 Oct 07 07:00	18° M 05'47	21°26'09
evening max el	12053 Oct 25 15:55	7° ∡ °54'34	23°03'48	desc. node	12054 Oct 11 05:46	21°M22'48	
retrograde	12053 Nov 07 21:55	14° ∡ °29'53		retrograde	12054 Oct 19 10:13	24°M07'39	
evening set	12053 Nov 11 23:36	13° ∡ 53′54		evening set	12054 Oct 22 03:35	23°M50'35	
min. Earth dist.	12053 Nov 19 01:08	10° ∡ ³38'46	0.55115 AU	inferior conj	12054 Oct 31 03:11	19°M55'38	
inferior conj	12053 Nov 20 10:38	9° ∡ ′50'35 −		minimum elong	12054 Oct 30 18:42	20°M07'32	
minimum elong	12053 Nov 20 09:53	9° ∡ ′51'39	5°51'03	min. Earth dist.	12054 Oct 31 07:31		0.54564 AU
morning rise	12053 Nov 28 21:46	6° ⋌ ¹00'47		morning rise	12054 Nov 08 10:42	16°M06'39	
direct	12053 Dec 01 22:01	5° ⋌ '39'25		direct	12054 Nov 12 06:21	15°M35'11	
morning max el	12053 Dec 13 02:16	10° ₹ 58'05	20°45'48	morning max el	12054 Nov 24 21:08	21°M36'49	22°23'58
asc. node	12053 Dec 18 03:05	16° ∡ 745'44		1	12054 Dec 01 23:50	0° 🔏 40. ₹3.113.7	
	12053 Dec 26 06:14	0°る		asc. node	12054 Dec 05 00:04	4° x ⁷ 31'37	
morning set	12054 Jan 01 06:02	11° る 54'20		morning set	12054 Dec 16 16:48 12054 Dec 18 06:16	26°⊀41'00 0°る	
gunariar aani	12054 Jan 08 16:16	27° る 18'55	1°22'18		12034 Dec 18 00.10	0.0	
superior conj minimum elong	12054 Jan 08 18:41	27° る 18'33	1°22'18 1°22'49	superior conj	12054 Dec 23 17:41	11° る 43'02	1°33'/18
minimum clong	12054 Jan 09 23:56	0° ≈	1 22 4)	minimum elong	12054 Dec 23 19:07	11°る50'40	1°34'32
max. Earth dist.	12054 Jan 13 18:36	0 ∞ 7°≈29'46	1.35881 AU	max. Earth dist.	12054 Dec 27 09:36	11 33040 19° る 22'30	1.34067 AU
evening rise	12054 Jan 17 16:45	14°≈56'20	1.55001 AU	evening rise	12054 Dec 31 20:44	28°る18'12	1.54007 AC
desc. node	12054 Jan 20 07:19	19° ≈ 41'07		evening rise	12055 Jan 01 17:49	0°≈	
dese. Hode	12054 Jan 26 07:05	0°) €		desc. node	12055 Jan 07 04:07	10° ≈ 01'34	
	12054 Feb 16 05:34	0° Υ		dese. Hode	12055 Jan 19 12:20	0° ∀	
evening max el	12054 Feb 22 03:48	6° Y ′26′23	26°12'39	evening max el	12055 Feb 04 17:18	20° ¥ 05'05	27°03'27
retrograde	12054 Mar 06 22:28	13° Y '42'14		retrograde	12055 Feb 18 01:53	27°) 29'33	_,
evening set	12054 Mar 13 03:28	11° Y '11'39		evening set	12055 Feb 24 16:45	24°) 56'35	
asc. node	12054 Mar 16 00:48	8° Y ′20'10		min. Earth dist.	12055 Feb 28 15:34	21°) (08'06	0.65502 AU
min. Earth dist.	12054 Mar 17 07:38	6° Y 49'31	0.66931 AU	inferior conj	12055 Mar 02 20:12	18°) €38'56	
inferior conj	12054 Mar 19 00:12	4° Υ '44'36	0°56'17	minimum elong	12055 Mar 02 20:14	18°) (38′50	0°01'21
minimum elong	12054 Mar 18 22:51	4° Υ '48'47	0°55'47	transit middle	12055 Mar 02 20:14	18° ¥ 38′50	
3	12054 Mar 23 09:05	30° Ŗ ₩		transit begin	12055 Mar 02 17:15	18°) 47′19	
morning rise	12054 Mar 24 19:01	28° ¥ 59′13		transit end	12055 Mar 02 23:13	18°) 30′22	
direct	12054 Mar 27 22:56	28° ∺ 02'31		asc. node	12055 Mar 02 22:11	18°) 33′15	
	12054 Apr 01 17:55	0° Ƴ		morning rise	12055 Mar 09 01:09	13° ¥ 05′52	
morning max el	12054 Apr 03 13:01	1° Y '34'31	18°36'38	direct	12055 Mar 11 19:21	12° ¥ 24′53	
desc. node	12054 Apr 18 09:03	22° Y ′04'09		morning max el	12055 Mar 18 04:09	15°) 45′13	18°03'42

	12055 Mar 28 14:50	0° Υ		minimum elong	12056 Feb 14 09:16	2°){ 11'40	1°08'00
desc. node	12055 Apr 05 05:39	12° Υ 19'35			12056 Feb 16 14:48	30°R≈	
morning set	12055 Apr 05 12:42	12° Y ′48′21		asc. node	12056 Feb 17 19:32	28° ≈ 57'34	
C	12055 Apr 16 04:32	0°8		morning rise	12056 Feb 21 00:23	26° ≈ 59'07	
	-			direct	12056 Feb 23 10:31	26° ≈ 30'12	
superior conj	12055 Apr 20 05:29	6° 8 23'38	-1°38'22	morning max el	12056 Feb 29 21:48	29° ≈ 50'07	17°47'56
minimum elong	12055 Apr 19 20:10	5° 8 46'55	1°37'52		12056 Mar 01 01:48	0°) €	
max. Earth dist.	12055 Apr 23 02:57	10° 8 56'25	1.45622 AU	morning set	12056 Mar 17 11:28	24°) ₹56'06	
	12055 May 05 09:18	Π $^{\circ}0$			12056 Mar 20 10:46	0° Y	
evening rise	12055 May 06 08:10	1° Ⅱ 28′18		desc. node	12056 Mar 22 02:14	2° Y 47'09	
greatest brilliancy	12055 May 19 07:42	21° Ⅱ 17′21	-0.7m				
	12055 May 25 10:03	0		superior conj	12056 Mar 30 06:57	16° Y 22'47	
asc. node	12055 May 29 19:33	5° 5 27'24		minimum elong	12056 Mar 30 00:42	15° Ƴ 57'24	0°58'59
evening max el	12055 May 31 02:19	6° 5 348'47	19°28'18	max. Earth dist.	12056 Apr 04 21:39	25° Y 23'36	1.44828 AU
retrograde	12055 Jun 07 06:21	10° © 51'14			12056 Apr 07 19:45	0°8	
evening set	12055 Jun 10 22:00	9° © 33'29		evening rise	12056 Apr 14 19:38	10° 8 50'34	
inferior conj	12055 Jun 16 07:10	3° © 40'07	3°13'52		12056 Apr 27 13:28	0°П	
minimum elong	12055 Jun 16 07:39	3° © 38'32	3°13'01	evening max el	12056 May 13 04:22	20° Ⅲ 34'10	20°28'40
min. Earth dist.	12055 Jun 17 13:52	1° © 58'53	0.67162 AU	asc. node	12056 May 15 16:43	22° ∏ 50'31	
	12055 Jun 19 03:34	30°RⅡ		retrograde	12056 May 21 05:13	25° Ⅲ 13′02	
morning rise	12055 Jun 21 16:52	27° Ⅱ 17'44		evening set	12056 May 25 06:27	23° Ⅱ 39'07	
direct	12055 Jun 27 17:13	24° ∏ 39'21		inferior conj	12056 May 30 13:04	17° Ⅲ 33'05	
desc. node	12055 Jul 02 06:07	25° Ⅱ 52'43		minimum elong	12056 May 30 12:30	17° Ⅲ 35'02	
	12055 Jul 07 22:19	0.20 0.20	25026120	min. Earth dist.	12056 May 31 05:45	16° Ⅱ 35'49	0.68163 AU
morning max el	12055 Jul 10 01:14		25°36'30	morning rise	12056 Jun 04 18:17	11° Ⅱ 13'38	
	12055 Jul 31 04:48	0°N		direct	12056 Jun 10 06:49	8° Ⅱ 46'55	
morning set	12055 Aug 15 01:39	24° Ω 55'05		desc. node	12056 Jun 18 03:12	12° ∏ 24'35	24910107
Fauth diet	12055 Aug 17 19:45	0° Mp	1 25010 ATT	morning max el	12056 Jun 21 11:09	15° Ⅱ 28'55 0° ©	24°10'07
max. Earth dist.	12055 Aug 18 17:52	1° Mp 44'08	1.35919 AU		12056 Jul 03 09:18	0°Ω	
superior conj	12055 Aug 24 17:24	13° m 24'16	0°10'20	morning set	12056 Jul 23 03:15 12056 Jul 26 23:14	6° Ω 29'37	
minimum elong	12055 Aug 24 17.24 12055 Aug 24 18:03	13° My 24' 16 13° My 27'32		max. Earth dist.	12056 Jul 20 25.14 12056 Jul 30 15:41	$12^{\circ}\Omega 57'46$	1.38136 AU
behind sun begin	12055 Aug 24 13:20	13° my 03'53	0 1041	max. Earth dist.	12030 Jul 30 13.41	12 063/40	1.38130 AC
behind sun end	12055 Aug 24 15:20 12055 Aug 24 22:46	13° m 51'13		superior conj	12056 Aug 06 21:30	26° Ω 21'13	-0°44'03
asc. node	12055 Aug 25 19:43	15° m 36'50		minimum elong	12056 Aug 07 00:31	26° Ω 35'39	
evening rise	12055 Sep 01 16:16	29° m 39'41		minimum ciong	12056 Aug 07 00:51	0°m)	0 44 02
evening rise	12055 Sep 01 20:14	0∘ ⊽		asc. node	12056 Aug 11 16:25	5° mp 39'19	
evening max el	12055 Sep 19 10:37	28° ≏ 53'56	20°04'32	evening rise	12056 Aug 15 17:10	13° m) 37'40	
evening man er	12055 Sep 20 14:39	0°M	20 0.32	evening rise	12056 Aug 24 11:17	0° ⊽	
desc. node	12055 Sep 28 03:10	3°M59'19		evening max el	12056 Sep 01 04:11	10° ♀ 30'30	19°03'59
retrograde	12055 Sep 29 23:45	4° ™ 08'47		retrograde	12056 Sep 10 01:58	14° ≏ 57'26	
evening set	12055 Oct 01 22:51	3°M58'41		evening set	12056 Sep 11 22:30	14° ≏ 46'38	
inferior conj	12055 Oct 10 22:07	29° ≙ 59'41	-3°50'18	desc. node	12056 Sep 14 00:37	14° ≙ 10′28	
minimum elong	12055 Oct 10 12:36	0°M13'58	3°46'52	inferior conj	12056 Sep 20 08:29	10° ≏ 32'48	-1°59'13
	12055 Oct 10 21:54	30° Ŗ Ω		minimum elong	12056 Sep 20 03:20	10° ≏ 41'39	1°57'08
min. Earth dist.	12055 Oct 12 16:05	28° ≏ 56'43	0.54948 AU	min. Earth dist.	12056 Sep 23 04:54	8° ≏ 35'50	0.56219 AU
morning rise	12055 Oct 19 01:14	25° ≏ 50'02		morning rise	12056 Sep 28 05:08	5° ≏ 48'11	
direct	12055 Oct 23 17:03	25° ჲ 02'51		direct	12056 Oct 03 16:30	4° ₽ 38'06	
	12055 Nov 04 08:57	0° M		morning max el	12056 Oct 17 20:18	11° ≏ 52'47	25°53'16
morning max el	12055 Nov 06 08:29	1°M44'54	24°12'06		12056 Oct 31 20:25	0° M	
asc. node	12055 Nov 21 20:58	23°M02'14		asc. node	12056 Nov 07 17:47	12°M05'49	
	12055 Nov 25 14:38	0° ∡		morning set	12056 Nov 14 15:52	26°M08'56	
morning set	12055 Dec 01 04:40	11° ∡ ²27'48			12056 Nov 16 10:34	0° ∡	
		_				_	
superior conj	12055 Dec 08 00:45	26° ₹ 21'24	1°38'39	superior conj	12056 Nov 21 11:06	11° х 06'03	1°37'20
minimum elong	12055 Dec 08 01:03	26° ₹ 23'01	1°39'28	minimum elong	12056 Nov 21 10:19	11° х 01'43	1°38'04
	12055 Dec 09 17:02	0°る		max. Earth dist.	12056 Nov 22 13:23	13° ∡ 31'35	1.31760 AU
max. Earth dist.	12055 Dec 10 08:18	1°る22'09	1.32673 AU	evening rise	12056 Nov 28 11:53	26° ₹ 20'10	
evening rise	12055 Dec 15 12:07	12° そ 08'59		daga	12056 Nov 30 06:32	0°る 10° ス 47/12	
dana mada	12055 Dec 24 23:35	0° ≈ 0° ≈ 06'12		desc. node	12056 Dec 10 22:00	19° る 47'13	
desc. node	12055 Dec 25 01:00 12056 Jan 14 22:30	0°≈0612 0°)		ovonina ma1	12056 Dec 17 09:57	0° ≈	27026100
evening max el	12056 Jan 14 22:30 12056 Jan 18 05:36	0° X 3° ¥ 22'46	27°20'57	evening max el retrograde	12056 Dec 30 14:40 12057 Jan 13 12:18	16°≈06'11 23°≈24'10	27°26'00
retrograde	12056 Jan 18 05:36 12056 Jan 31 22:55	10°) 47'10	41 47 31	evening set	12057 Jan 13 12:18 12057 Jan 20 11:13	23°≈24°10 21°≈08'55	
evening set	12056 Feb 07 20:20	8° ¥ 18'47		min. Earth dist.	12057 Jan 20 11:15 12057 Jan 24 04:59	21 ≈08 33 18°≈15'49	0.61709 AU
min. Earth dist.	12056 Feb 11 15:11		0.63733 AU	inferior conj	12057 Jan 27 05:35	15°≈30'49	
inferior conj	12056 Feb 14 07:03	2°) 17'21		minimum elong	12057 Jan 27 10:35	15°≈19'24	
monor conj	12000100 17 07.03	2 /(1/21	1 0/27	mminum clong	1205, 3411 2/ 10.55	10 /4/17/4	

morning rise	12057 Feb 03 12:44	10° ≈ 30′12		min. Earth dist.	12058 Jan 06 08:06	0° ≈ 41'01	0.59569 AU
asc. node	12057 Feb 03 16:50	10° ≈ 27'08			12058 Jan 07 05:14	30°Ŗ₹	
direct	12057 Feb 05 17:01	10° ≈ 09'36		inferior conj	12058 Jan 09 12:16	28° ろ 09'58	-3°44'59
morning max el	12057 Feb 12 14:40	13° ≈ 39'05	17°50'00	minimum elong	12058 Jan 09 19:55	27° る 54'44	3°41'40
morning man vi	12057 Feb 23 18:47	0° ∀	1, 2000	morning rise	12058 Jan 17 09:02	23° る 29'55	3 .1 .0
. ,				-			
morning set	12057 Feb 28 07:39	8°) €04'20		direct	12058 Jan 19 11:00	23° る 13'55	
desc. node	12057 Mar 08 22:50	23° ¥ 22′03		asc. node	12058 Jan 21 14:05	23° る 31'24	
				morning max el	12058 Jan 27 03:12	27° る 02'22	18°11'14
superior conj	12057 Mar 11 08:29	27° ∺ 29'55	-0°18'29		12058 Jan 29 18:20	0° ≈	
minimum elong	12057 Mar 11 06:46	27°) €22'36	0°18'06	morning set	12058 Feb 11 19:10	21° ≈ 54'47	
· ·	12057 Mar 12 19:51	0° Y		Č	12058 Feb 16 02:33	0°) €	
max. Earth dist.	12057 Mar 18 13:01	9° Υ 28'20	1.43395 AU		12000100 10 02.00	٠,٨	
			1.43393 AU		12050 F 1 21 00 20	001/42/21	0010153
evening rise	12057 Mar 25 12:18	20° Ƴ 34'11		superior conj	12058 Feb 21 09:28	9° ¥ 42'21	0°18'53
	12057 Mar 31 15:43	9° 8		minimum elong	12058 Feb 21 10:55	9° ∺ 48'50	0°19'02
	12057 Apr 22 02:50	Π $^{\circ}0$		desc. node	12058 Feb 23 19:26	14°) €00'43	
evening max el	12057 Apr 26 00:55	4° Ⅱ 20'42	21°40'51	max. Earth dist.	12058 Mar 01 00:14	22° ¥ 59'17	1.41476 AU
asc. node	12057 May 02 13:57	9° Ⅱ 10'35			12058 Mar 05 05:43	$0^{\circ}\mathbf{Y}$	
retrograde	12057 May 05 03:26	9° ∏ 41'40		evening rise	12058 Mar 05 21:58	1° Y '06'05	
evening set	12057 May 09 15:11	7° Ⅱ 51'56		evening rise	12058 Mar 25 02:09	0°8	
•			2001105				22000102
inferior conj	12057 May 14 21:43	1° ∏ 35'13	3°01'05	evening max el	12058 Apr 08 17:16	18° 8 09'17	23°00'03
minimum elong	12057 May 14 20:17	1° Ⅱ 40'11	3°00'11	retrograde	12058 Apr 18 23:31	24° 8 12'27	
min. Earth dist.	12057 May 15 01:08	1° Ⅱ 23'16	0.68699 AU	asc. node	12058 Apr 19 11:16	24° 8 11'20	
	12057 May 16 01:11	30° Ŗ ႘		evening set	12058 Apr 23 22:36	22° 8 07'55	
morning rise	12057 May 20 01:11	25° 8 20'52		inferior conj	12058 Apr 29 07:06	15° 8 43'00	2°38'53
direct	12057 May 25 00:49	23° 8 11'37		minimum elong	12058 Apr 29 05:07		2°37'54
		_	22040121	•	•	_	
morning max el	12057 Jun 03 22:00	29° 8 02'11	22°40′21	min. Earth dist.	12058 Apr 28 21:52	16° 8 15'01	0.68772 AU
	12057 Jun 04 20:26	Π °0		morning rise	12058 May 04 11:31	9° 8 35'10	
desc. node	12057 Jun 05 00:11	0° Ⅱ 09'55		direct	12058 May 08 22:01	7° 8 46'38	
	12057 Jun 27 02:31	0 \circ \odot		morning max el	12058 May 17 13:14	12° 8 45'25	21°15'37
morning set	12057 Jul 07 21:01	16°959'08		desc. node	12058 May 22 21:05	18° 8 48'50	
max. Earth dist.	12057 Jul 12 13:41	24°9549'21	1.40457 AU		12058 May 31 04:15	0°П	
max. Lartii dist.		0°Ω	1.40437 AO	marning got	,	26° Ⅱ 20'05	
	12057 Jul 15 13:54	0 86		morning set	12058 Jun 17 17:04		
		_			12058 Jun 20 00:39	0 \circ 50	
superior conj	12057 Jul 20 09:32	8° £ 33'06		max. Earth dist.	12058 Jun 24 17:38	7° 9 35'48	1.42601 AU
minimum elong	12057 Jul 20 15:05	8° Ω 58'13	1°17'56				
asc. node	12057 Jul 29 13:09	25° Ω 34'55		superior conj	12058 Jul 02 00:57	19° 5 49'09	-1°48'17
evening rise	12057 Jul 30 08:59	27° Ω 08'47		minimum elong	12058 Jul 02 07:47	20°9518'28	1°48'26
0.000008	12057 Jul 31 21:14	0° m)			12058 Jul 07 21:08	0°N	
		-	10024150				
evening max el	12057 Aug 15 08:38	22° m 50'50	18°24'50	evening rise	12058 Jul 13 11:36	10°Ω02'18	
retrograde	12057 Aug 22 23:10	26° Mp 40'47		asc. node	12058 Jul 16 09:58	15° Ω 18'54	
evening set	12057 Aug 25 01:05	26° Mp 24'23			12058 Jul 25 04:45	0° m)	
desc. node	12057 Aug 31 22:04	22° Mp 26'23		evening max el	12058 Jul 29 19:42	5° m 44'00	18°05'49
inferior conj	12057 Sep 01 16:17	21° m 50'04	-0°14'08	retrograde	12058 Aug 05 14:20	9° m)11'54	
minimum elong	12057 Sep 01 15:45			evening set	12058 Aug 07 23:52	8° m 46'06	
transit middle	12057 Sep 01 15:45	21° mp 51'09	0°14'08	inferior conj	12058 Aug 14 20:56	3° m 51'08	1°09'43
	•	-	0 1400	=	•	-	
transit begin	12057 Sep 01 14:02	21°M 54'36		minimum elong	12058 Aug 14 22:57	3° Mp 46'27	1°08'34
transit end	12057 Sep 01 17:28	21° m 47'43		min. Earth dist.	12058 Aug 18 02:26	0° Mp 51′26	0.60371 AU
min. Earth dist.	12057 Sep 04 23:41	19° Mp 11'40	0.58135 AU	desc. node	12058 Aug 18 19:31	0° Mp 14′20	
morning rise	12057 Sep 09 02:55	16° Mp 28′53			12058 Aug 19 02:19	30° R Ω	
direct	12057 Sep 15 06:16	14° m 51'08		morning rise	12058 Aug 21 19:05	28° Ω 00′20	
morning max el	12057 Sep 29 14:09	22° m/29'15	27°10'17	direct	12058 Aug 28 08:17	25° Ω 55'09	
morning max or	12057 Oct 06 06:14	0° ʊ	27 1017	anect	12058 Sep 07 06:56	0° my	
					-		27051152
	12057 Oct 24 19:31	0° M		morning max el	12058 Sep 11 15:28	3° Mp 49'26	27°51'52
asc. node	12057 Oct 25 14:33	1°M33'50			12058 Sep 30 23:27	0∘ ⊽	
morning set	12057 Oct 30 00:45	10° M 40′12		asc. node	12058 Oct 12 11:17	21° ≏ 18'43	
				morning set	12058 Oct 14 05:28	24° ♀ 56'10	
superior conj	12057 Nov 05 22:48	25°M51'22	1°30'12	Č	12058 Oct 16 14:49	0° M	
minimum elong	12057 Nov 05 22:48	25°M42'11	1°30'43	max. Earth dist.	12058 Oct 20 06:26	7°M58'30	1.31432 AU
_				max. Earth dist.	12030 OCI 20 00.20	1 1163630	1.51454 AU
max. Earth dist.	12057 Nov 05 22:01	25°M47'00	1.31347 AU	_			
	12057 Nov 07 19:25	0° ∡		superior conj	12058 Oct 21 09:57	10°M31'00	1°17'28
evening rise	12057 Nov 12 17:33	10° ∡ ⁴45'31		minimum elong	12058 Oct 21 07:47	10° ™ 19'00	1°17'39
	12057 Nov 22 12:10	ರ°0		evening rise	12058 Oct 28 02:55	25° ™ 18'19	
desc. node	12057 Nov 27 19:08	8° る 55'24		U	12058 Oct 30 08:00	0° ∡ 7	
evening max el	12057 Dec 12 17:55	8° පි03'50	26017112	desc. node	12058 Nov 14 16:20	27° х 17'36	
evening max er			20 4/43	uese. Hour			
	12057 Dec 14 22:18	0° ≈		_	12058 Nov 16 14:54	0° る	
retrograde	12057 Dec 26 16:32	5° ≈ 12'27		evening max el	12058 Nov 24 12:55	9° る 08'42	25°36'41
evening set	12058 Jan 02 09:40	3° ≈ 19′03		retrograde	12058 Dec 08 09:56	16° る 08'19	

evening set	12058 Dec 14 11:16	14° る 43'46		min. Earth dist.	12059 Nov 30 11:18	22° √ 27'37	0.55803 AU
min. Earth dist.	12058 Dec 19 01:13		0.57510 AU	inferior conj	12059 Dec 02 14:35	21°×209'53	
inferior conj	12058 Dec 21 23:45	12 3 0011		minimum elong	12059 Dec 02 14:35 12059 Dec 02 18:34	21° × 03'50	
minimum elong	12058 Dec 21 25:49 12058 Dec 22 07:59	9° る 50'48		morning rise	12059 Dec 02 10:34 12059 Dec 11 02:21	17° × 12'44	3 43 34
morning rise	12058 Dec 30 07:09	5° ठ 30 10	13131	direct	12059 Dec 13 17:09	16° 7 55'14	
direct	12059 Jan 01 11:58	5°₹32'39		morning max el	12059 Dec 24 00:01	21°×749'28	19°58'20
asc. node	12059 Jan 08 11:17	8° る 12'57		asc. node	12059 Dec 26 08:26	24°×7'19'10	17 30 20
morning max el	12059 Jan 10 07:35	9° る 49'25	18°53'28	use. Houe	12059 Dec 30 14:00	0°る	
morning max or	12059 Jan 23 12:19	0° ≈	10 33 20	morning set	12060 Jan 10 22:14	20° පි 48'10	
morning set	12059 Jan 26 17:14	6° ≈ 13'04		morning sec	12060 Jan 15 10:19	0°≈	
morning sec	12009 3411 20 17.11	0,41501			12000 3411 13 10.17	0 .0.	
superior conj	12059 Feb 04 05:40	22° ≈ 48'06	0°49'28	superior conj	12060 Jan 18 16:14	6° ≈ 33'06	1°12'27
minimum elong	12059 Feb 04 08:26	23° ≈ 01'18	0°49'37	minimum elong	12060 Jan 18 19:02	6° ≈ 47'01	1°12'49
	12059 Feb 08 02:14	0° ∀		max. Earth dist.	12060 Jan 24 14:03	18° ≈ 00'20	1.37063 AU
desc. node	12059 Feb 10 16:06	4° ¥ 39'41		evening rise	12060 Jan 28 07:50	24° ≈ 52'38	
max. Earth dist.	12059 Feb 11 07:39	5°) 48′52	1.39280 AU	desc. node	12060 Jan 28 12:47	25° ≈ 14'50	
evening rise	12059 Feb 15 04:51	12°) € 33'42			12060 Jan 31 05:29	0° \	
evening rise	12059 Feb 26 00:00	0°Υ			12060 Feb 19 14:43	0° Υ	
	12059 Mar 20 08:44	0°8		evening max el	12060 Mar 03 20:32	15° Υ 51'00	25°35'04
evening max el	12059 Mar 22 07:15	2° 8 00'14	24°20'22	retrograde	12060 Mar 16 04:42	22° Υ 57'59	23 33 04
retrograde	12059 Apr 02 16:17	8° 8 40'18	24 2022	evening set	12060 Mar 22 03:17	20° Υ 30'51	
asc. node	12059 Apr 06 08:37	7° 8 38'57		asc. node	12060 Mar 23 06:00	19° Y 29'43	
evening set	12059 Apr 08 03:12	6° 8 22'52		min. Earth dist.	12060 Mar 26 10:51	19 γ 29 43 15° Υ 48'52	0.67580 AU
•	•	1° 8 05'45	0.68392 AU	inferior conj	12060 Mar 27 20:33	13 1 48 32	1°24'58
min. Earth dist.	12059 Apr 12 17:48	29° Υ 53'13		-		14 γ 01 00 14° γ 06'52	
inferior conj	12059 Apr 13 15:22		2°06'52	minimum elong	12060 Mar 27 18:43	8° Y 09'45	1°24'13
minimum elong	12059 Apr 13 13:12	0° 8 00'30	2°05'54	morning rise	12060 Apr 02 10:41		
	12059 Apr 13 13:21	30°₹ Υ		direct	12060 Apr 05 20:40	7° Υ 02'49	10002107
morning rise	12059 Apr 18 23:21	23° Y ′53'02		morning max el	12060 Apr 12 17:33	10° ℃ 47'16	19°03'07
direct	12059 Apr 22 21:08	22° Y 25'57		desc. node	12060 Apr 25 14:33	27° Y ′52'59	
morning max el	12059 Apr 30 11:35	26° Y 41′26	20°02'05	greatest brilliancy	12060 Apr 25 22:28	28° Y ′22'46	-0.7m
	12059 May 03 12:22	0°8			12060 Apr 27 00:13	0°8	
desc. node	12059 May 09 17:52	8° 8 06'57		morning set	12060 May 05 23:34	13° 8 47'19	
	12059 May 24 13:36	0°Щ			12060 May 16 09:59	0°Щ	
morning set	12059 May 27 19:16	4° Ⅱ 57'30		max. Earth dist.	12060 May 19 20:33	5° Ⅱ 22'58	1.45391 AU
max. Earth dist.	12059 Jun 07 04:35	21° Ⅱ 12'31	1.44308 AU				
				superior conj	12060 May 22 10:14	9° Ⅱ 25'29	
superior conj	12059 Jun 12 16:34	0° © 04'05		minimum elong	12060 May 22 07:51	9° Ⅱ 16′06	2°13'09
minimum elong	12059 Jun 12 21:04	0°\$22'26	2°09'20		12060 Jun 04 06:39	0ಂಣ	
	12059 Jun 12 15:34	0∘ ௐ		evening rise	12060 Jun 06 06:05	3° © 13'09	
evening rise	12059 Jun 25 20:14	22° © 07'23		asc. node	12060 Jun 19 03:51	23° © 51'42	
	12059 Jun 30 10:42	0 \circ Ω			12060 Jun 23 15:35	0 $^{\circ}\Omega$	
asc. node	12059 Jul 03 06:53	4° Ω 46'41		evening max el	12060 Jun 25 23:02	2° Ω 34'01	18°24'21
evening max el	12059 Jul 13 09:35	19° Ω 01'10	18°05'53	retrograde	12060 Jul 02 09:07	6° Ω 00'40	
retrograde	12059 Jul 19 19:08	22° Ω 21'33		evening set	12060 Jul 05 10:56	5° Ω 08'08	
evening set	12059 Jul 22 12:42	21° Ω 43'27			12060 Jul 10 22:47	30° ₹ 5	
inferior conj	12059 Jul 28 18:58	16° Ω 29'57		inferior conj	12060 Jul 11 06:14	29° 5 38'06	2°47'49
minimum elong	12059 Jul 28 21:36	16° Ω 22'57	2°08'06	minimum elong	12060 Jul 11 08:21	29° © 31'51	2°46'39
min. Earth dist.	12059 Jul 31 14:37	13° Ω 31'04	0.62633 AU	min. Earth dist.	12060 Jul 13 12:17	26° © 59'18	0.64686 AU
morning rise	12059 Aug 04 04:26	10° Ω 19'49		morning rise	12060 Jul 17 04:32	23° © 18'18	
desc. node	12059 Aug 05 16:53	9° Ω 20'14		desc. node	12060 Jul 22 14:10	20° 5 43'13	
direct	12059 Aug 10 20:55	7° Ω 52'40		direct	12060 Jul 23 18:20	20°938'24	
morning max el	12059 Aug 24 22:45	15° Ω 55'04	27°54'32	morning max el	12060 Aug 06 09:05	28° © 37'20	27°21'39
	12059 Sep 05 12:16	0° m y			12060 Aug 07 16:57	0 \circ Ω	
	12059 Sep 23 15:50	0∘ 亚			12060 Aug 29 08:07	0° ™	
morning set	12059 Sep 28 03:53	8° ≏ 51'19		morning set	12060 Sep 10 17:27	22° m 19'39	
asc. node	12059 Sep 29 07:59	11° ≏ 15′00			12060 Sep 14 13:24	0∘ 亚	
max. Earth dist.	12059 Oct 03 10:35	19° ≙ 55'07	1.32027 AU	asc. node	12060 Sep 15 04:40	1° ≏ 18′26	
				max. Earth dist.	12060 Sep 15 06:47	1° ഫ 29'23	1.33147 AU
superior conj	12059 Oct 05 18:41	24° ≏ 59'42	0°59'16				
minimum elong	12059 Oct 05 16:28	24° ≏ 47'36	0°59'10	superior conj	12060 Sep 18 22:58	9° ഫ 12'18	0°35'51
	12059 Oct 08 01:23	0° M		minimum elong	12060 Sep 18 21:18	9° ഫ 03'25	0°35'34
evening rise	12059 Oct 12 14:01	9° M ₅53'11		evening rise	12060 Sep 26 01:04	24° ≏ 25'37	
	12059 Oct 22 18:34	0° ∡ ¹			12060 Sep 28 16:51	0° M	
desc. node	12059 Nov 01 13:36	14° ∡ °35′59		evening max el	12060 Oct 17 11:35	29°M32'17	22°21'03
evening max el	12059 Nov 06 00:28	19° ∡ ¹28'16	24°02'18		12060 Oct 17 23:07	0° ∡ ¹	
retrograde							
retrograde	12059 Nov 19 15:14	26° ∡ 16′22		desc. node	12060 Oct 18 10:56	0° ∡ ¹27'21	
evening set	12059 Nov 19 15:14 12059 Nov 24 12:45	26° ⊀ 16′22 25° ≮ 23′50		desc. node retrograde	12060 Oct 18 10:56 12060 Oct 30 08:32	0° х 27′21 5° х 56′02	

evening set	12060 Nov 02 19:08	5° ₹ 129'56			12061 Sep 21 15:27	0° M	
min. Earth dist.	12060 Nov 10 18:25	1° × 757'01	0.54759 AU	evening max el	12061 Sep 29 07:34	9°M56'54	20°49'06
		1° x ³ 701		desc. node	12061 Sep 29 07.34 12061 Oct 05 08:20	14°ML22'38	20 49 00
inferior conj	12060 Nov 11 12:29						
minimum elong	12060 Nov 11 08:00	1° ∡ 737′52	5*43*34	retrograde	12061 Oct 10 19:20	15°M39'09	
	12060 Nov 14 07:05	30°RM.		evening set	12061 Oct 13 02:46	15°M26'20	40.4512.2
morning rise	12060 Nov 19 22:14	27°M44'15		inferior conj	12061 Oct 22 04:11	11°MJ31'43	
direct	12060 Nov 23 06:10	27° M .19'19		minimum elong	12061 Oct 21 18:17	11°M45'49	4°42'32
	12060 Dec 01 10:05	0° ∡ ¹		min. Earth dist.	12061 Oct 23 01:32	11° M L01'15	0.54610 AU
morning max el	12060 Dec 05 02:23	2° ∡ 757′01	21°25'32	morning rise	12061 Oct 30 09:50	7°M36'17	
asc. node	12060 Dec 12 05:28	11° ∡ ³33'32		direct	12061 Nov 03 14:21	6° M 58′38	
	12060 Dec 22 14:56	0°ಕ		morning max el	12061 Nov 16 16:55	13°M18'34	23°09'36
morning set	12060 Dec 25 07:32	5° ට 32'36		asc. node	12061 Nov 29 02:24	29°M39'45	
					12061 Nov 29 07:13	0° ∡ ¹	
superior conj	12061 Jan 01 13:13	20°る46'02	1°28'00	morning set	12061 Dec 09 18:58	20° ∡ 19′26	
minimum elong	12061 Jan 01 15:15	20°る56'40	1°28'38		12061 Dec 14 06:42	0°₹	
max. Earth dist.	12061 Jan 06 00:38	29° る 53'34	1.35058 AU				
	12061 Jan 06 01:56	0° ≈		superior conj	12061 Dec 16 17:19	5° る 16'35	1°36'37
evening rise	12061 Jan 10 03:48	7° ≈ 54'54		minimum elong	12061 Dec 16 18:16	5° る 21'45	1°37'25
desc. node	12061 Jan 14 09:34	15° ≈ 42'25		max. Earth dist.	12061 Dec 19 18:55	11° ප් 47'46	1.33419 AU
	12061 Jan 22 21:09	0° ∀		evening rise	12061 Dec 24 13:03	21° る 29'56	
evening max el	12061 Feb 14 10:10	29°) 37'19	26°36'46	-	12061 Dec 28 23:29	0° ≈	
-	12061 Feb 14 19:37	$0^{\circ}\mathbf{\Upsilon}$		desc. node	12062 Jan 01 06:26	5°≈56'51	
retrograde	12061 Feb 27 11:49	6° Ƴ 58'43			12062 Jan 16 17:29	0° ₩	
evening set	12061 Mar 05 21:07	4° Y 26′27		evening max el	12062 Jan 27 23:35	13° ¥ 09'12	27°18'11
min. Earth dist.	12061 Mar 09 22:52	0° Υ 18'39	0.66369 AU	retrograde	12062 Feb 10 12:35	20°) (34'08	
asc. node	12061 Mar 10 03:21	0° Υ 05'27	0.00507110	evening set	12062 Feb 17 06:35	18°) €02'33	
use. Houe	12061 Mar 10 05:12	30°R) €		min. Earth dist.	12062 Feb 21 03:38	14° ¥ 27'16	0.64787 AU
inferior conj	12061 Mar 11 20:36	28° ₩ 02'15	0°33'00	inferior conj	12062 Feb 23 13:04	11° X 50'55	
minimum elong	12061 Mar 11 19:44	28°\(\frac{13}{150}\)	0°32'47	minimum elong	12062 Feb 23 13:56	11° X 48'33	
•	12061 Mar 17 19:26	28 X 0430	0 3247	asc. node	12062 Feb 25 13:30 12062 Feb 25 00:42	10°\(\frac{4}{15}\)'38	0 28 28
morning rise	12061 Mar 17 19.26 12061 Mar 20 18:56	21°\(\frac{1}{32}\)'10			12062 Feb 23 00.42 12062 Mar 01 23:01	6°¥23′28	
direct		24° H 58'07	10020127	morning rise		5° H 47'59	
morning max el	12061 Mar 27 05:58	24°π38'07 0° Υ	18°20'26	direct	12062 Mar 04 13:35		17054140
	12061 Mar 31 13:10			morning max el	12062 Mar 10 22:28	9° ₩ 06'58	17°54'48
desc. node	12061 Apr 12 11:11	17° Y 59'33			12062 Mar 25 07:08	0°Υ 5° 20 1 012 1	
morning set	12061 Apr 16 02:14	23° Y 45′59		morning set	12062 Mar 28 09:53	5°Υ10'24	
	12061 Apr 20 00:19	0°B		desc. node	12062 Mar 30 07:49	8° Ƴ 20'57	
	120(1 M 01 17-10	100 405121	1055157		120(2 A 11 07.42	27° Ƴ 51'42	1922149
superior conj	12061 May 01 17:19	18° 8 25'31		superior conj	12062 Apr 11 07:43	27° γ 31'42 27° γ 17'51	
minimum elong	12061 May 01 08:43	17° 8 51'54		minimum elong	12062 Apr 10 23:13 12062 Apr 12 16:00	0° 8	1-22/08
max. Earth dist.		19°O 2744	1.45757 AU				
	12061 May 02 15:38			F 41 F 4			1 45276 ATT
	12061 May 09 03:15	0° Ⅱ		max. Earth dist.	12062 Apr 15 11:40	4° 8 27'13	1.45376 AU
evening rise	12061 May 09 03:15 12061 May 17 15:43	0° П 13° П 19'40		max. Earth dist. evening rise	12062 Apr 15 11:40 12062 Apr 27 07:30	4° 8 27'13 22° 8 48'17	1.45376 AU
evening rise greatest brilliancy	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37	0°П 13°П19'40 29°П22'39	-0.8m	evening rise	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29	4° 8 27'13 22° 8 48'17 0°Ⅲ	
greatest brilliancy	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22	0°Ⅲ 13°Ⅲ19'40 29°Ⅲ22'39 0°ᢒ		evening rise greatest brilliancy	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43	4° 8 27'13 22° 8 48'17 0°П 14°П48'36	-0.6m
greatest brilliancy asc. node	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53	0°∏ 13°∏19'40 29°∏22'39 0°© 12°©25'42	-0.8m	evening rise greatest brilliancy evening max el	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54	4° と 27'13 22° と 48'17 0°П 14°П48'36 0° © 01'02	
greatest brilliancy asc. node evening max el	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26	0°∏ 13°∏19'40 29°∏22'39 0°© 12°©25'42 16°©15'36		evening rise greatest brilliancy	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00	4° 8 27'13 22° 8 48'17 0°Ⅲ 14°Ⅲ48'36 0°©01'02 0°©18'41	-0.6m
greatest brilliancy asc. node evening max el retrograde	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36	0°∏ 13°∏19'40 29°∏22'39 0°© 12°©25'42 16°©15'36 20°©01'16	-0.8m	evening rise greatest brilliancy evening max el asc. node	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29	4° ႘ 27'13 22° ႘ 48'17 0° Π 14° Π 48'36 0° © 01'02 0° © 18'41 0° ©	-0.6m
asc. node evening max el retrograde evening set	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 19 15:04	0°∏ 13°∏19'40 29°∏22'39 0°© 12°©25'42 16°©15'36	-0.8m 19°00'19	evening rise greatest brilliancy evening max el asc. node retrograde	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29 12062 May 31 02:52	4°827'13 22°848'17 0°Ⅲ 14°Ⅲ48'36 0°©01'02 0°©18'41 0°© 4°©17'27	-0.6m
asc. node evening max el retrograde evening set inferior conj	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 19 15:04 12061 Jun 25 03:02	0°∏ 13°∏19'40 29°∏22'39 0°© 12°©25'42 16°©15'36 20°©01'16	-0.8m 19°00'19 3°08'35	evening rise greatest brilliancy evening max el asc. node	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29 12062 May 31 02:52 12062 Jun 03 22:34	4°\dagger*27'13 22°\dagger*48'17 0°\Pi 14°\Pi48'36 0°\sign(901'02) 0°\sign(18'41) 0°\sign 4°\sign(17'27) 2°\sign(52'41)	-0.6m
asc. node evening max el retrograde evening set inferior conj minimum elong	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 19 15:04	0°II 13°II 19'40 29°II 22'39 0°© 12°©25'42 16°©15'36 20°©01'16 18°©52'55	-0.8m 19°00'19	evening rise greatest brilliancy evening max el asc. node retrograde	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29 12062 May 31 02:52	4°827'13 22°848'17 0°Ⅲ 14°Ⅲ48'36 0°©01'02 0°©18'41 0°© 4°©17'27	-0.6m
asc. node evening max el retrograde evening set inferior conj	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 19 15:04 12061 Jun 25 03:02	0°II 13°II 19'40 29°II 22'39 0°S 12°S25'42 16°S15'36 20°S01'16 18°S52'55 13°S07'54	-0.8m 19°00'19 3°08'35	evening rise greatest brilliancy evening max el asc. node retrograde	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29 12062 May 31 02:52 12062 Jun 03 22:34	4°\dagger*27'13 22°\dagger*48'17 0°\Pi 14°\Pi48'36 0°\sign(901'02) 0°\sign(18'41) 0°\sign 4°\sign(17'27) 2°\sign(52'41)	-0.6m
asc. node evening max el retrograde evening set inferior conj minimum elong	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 19 15:04 12061 Jun 25 03:02 12061 Jun 25 04:09	0°II 13°II 19'40 29°II 22'39 0°S 12°S25'42 16°S15'36 20°S01'16 18°S52'55 13°S07'54 13°S04'20	-0.8m 19°00'19 3°08'35 3°07'38	evening rise greatest brilliancy evening max el asc. node retrograde evening set	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29 12062 May 31 02:52 12062 Jun 03 22:34 12062 Jun 06 20:39	4°႘27'13 22°႘48'17 0°Ⅲ 14°Ⅲ48'36 0°໑01'02 0°໑18'41 0°໑ 4°໑17'27 2°໑52'41 30°℞Ⅲ	-0.6m 19°52'20
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 19 15:04 12061 Jun 25 03:02 12061 Jun 25 04:09 12061 Jun 26 18:15	0°II 13°II 19'40 29°II 22'39 0°G 12°G25'42 16°G15'36 20°G01'16 18°G52'55 13°G07'54 13°G04'20 11°G03'03	-0.8m 19°00'19 3°08'35 3°07'38	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 22:00 12062 May 23 14:29 12062 May 31 02:52 12062 Jun 03 22:34 12062 Jun 06 20:39 12062 Jun 09 06:21	4°827'13 22°848'17 0°11 14°1148'36 0°501'02 0°518'41 0°5 4°517'27 2°552'41 30°811 26°1153'53	-0.6m 19°52'20 3°14'58
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greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 25 03:02 12061 Jun 25 04:09 12061 Jun 26 18:15 12061 Jun 30 16:34 12061 Jun 06 22:56 12061 Jul 09 11:22 12061 Jul 19 19:53 12061 Aug 03 10:18 12061 Aug 21 22:58 12061 Aug 24 18:49 12061 Aug 28 16:44 12061 Sep 02 20:19 12061 Sep 02 19:54 12061 Sep 02 19:54 12061 Sep 02 14:35	0° Π 13° Π19'40 29° Π22'39 0° © 12° ©25'42 16° ©15'36 20° ©01'16 18° ©52'55 13° ©07'54 13° ©04'20 11° ©03'03 6° ©45'16 4° ©03'22 4° ©25'58 11° ©43'51 0° Ω 0° M 5° M11'56 12° M41'14 21° M24'24 23° M01'43 22° M59'36 22° M32'19	-0.8m 19°00'19 3°08'35 3°07'38 0.66386 AU 26°20'35 1.34782 AU	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 14:54 12062 May 23 14:29 12062 May 31 02:52 12062 Jun 03 22:34 12062 Jun 09 06:21 12062 Jun 09 06:22 12062 Jun 10 06:59 12062 Jun 10 06:59 12062 Jun 20 09:28 12062 Jun 20 09:28 12062 Jun 20 09:28 12062 Jun 20 06:02 12062 Jul 02 06:02 12062 Jul 05 16:55 12062 Jul 07 03:55 12062 Aug 10 17:55 12062 Aug 14 01:12	4°827'13 22°848'17 0° Π 14° Π48'36 0° ©01'02 0° ©18'41 0° © 4° ©17'27 2° ©52'41 30° R Π 26° Π53'53 26° Π53'49 25° Π31'04 20° Π32'43 17° Π58'24 20° Π04'37 25° Π04'58 0° © 0° Ω 17° Ω18'19 23° Ω47'55 0° ™	-0.6m 19°52'20 3°14'58 3°14'08 0.67652 AU 25°00'44 1.36840 AU
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greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	12061 May 09 03:15 12061 May 17 15:43 12061 May 27 22:37 12061 May 28 08:22 12061 Jun 06 00:53 12061 Jun 09 09:26 12061 Jun 16 04:36 12061 Jun 25 03:02 12061 Jun 25 04:09 12061 Jun 26 18:15 12061 Jun 30 16:34 12061 Jun 06 22:56 12061 Jul 09 11:22 12061 Jul 19 19:53 12061 Aug 03 10:18 12061 Aug 21 22:58 12061 Aug 24 18:49 12061 Aug 28 16:44 12061 Sep 02 20:19 12061 Sep 02 19:54 12061 Sep 02 19:54 12061 Sep 02 14:35	0° Π 13° Π19'40 29° Π22'39 0° © 12° ©25'42 16° ©15'36 20° ©01'16 18° ©52'55 13° ©07'54 13° ©04'20 11° ©03'03 6° ©45'16 4° ©03'22 4° ©25'58 11° ©43'51 0° Ω 0° M 5° M11'56 12° M41'14 21° M24'24 23° M01'43 22° M59'36 22° M32'19 23° M26'56	-0.8m 19°00'19 3°08'35 3°07'38 0.66386 AU 26°20'35 1.34782 AU	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	12062 Apr 15 11:40 12062 Apr 27 07:30 12062 May 02 00:29 12062 May 11 21:43 12062 May 23 14:54 12062 May 23 14:54 12062 May 23 14:29 12062 May 31 02:52 12062 Jun 03 22:34 12062 Jun 09 06:21 12062 Jun 09 06:22 12062 Jun 10 06:59 12062 Jun 10 06:59 12062 Jun 20 09:28 12062 Jun 20 09:28 12062 Jun 20 09:28 12062 Jun 20 06:02 12062 Jul 02 06:02 12062 Jul 05 16:55 12062 Jul 07 03:55 12062 Aug 10 17:55 12062 Aug 14 01:12	4°827'13 22°848'17 0° Π 14° Π48'36 0° ©01'02 0° ©18'41 0° © 4° ©17'27 2° ©52'41 30° R Π 26° Π53'53 26° Π53'49 25° Π31'04 20° Π32'43 17° Π58'24 20° Π04'37 25° Π04'58 0° © 0° Ω 17° Ω18'19 23° Ω47'55 0° ™	-0.6m 19°52'20 3°14'58 3°14'08 0.67652 AU 25°00'44 1.36840 AU

	12062 Aug 29 03:12	0∘ ⊽			12063 Aug 23 00:19	0∘ ত	
evening max el	12062 Sep 11 17:19	21° ≏ 05'26	19°36'03	evening max el	12063 Aug 25 15:53	ა <u>ი</u> 00'53	18°44'40
retrograde	12062 Sep 21 12:49	25° Ω 58'53	-, -, -, -, -, -, -, -, -, -, -, -, -, -	retrograde	12063 Sep 02 23:12	7° ♀ 10'50	
desc. node	12062 Sep 22 05:44	25° ₽ 57'27		evening set	12063 Sep 04 21:24	6° £ 58'13	
evening set	12062 Sep 23 09:36	25° Ω 49'03		desc. node	12063 Sep 09 03:10	5° ≏ 12'22	
inferior conj	12062 Oct 02 04:22	21° Ω 44'34	-3°04'01	inferior conj	12063 Sep 12 23:34	2° ₽ 35'34	-1°12'35
minimum elong	12062 Oct 01 20:22	21° ≏ 57'11	3°00'54	minimum elong	12063 Sep 12 20:34	2° - 41′05	1°11'27
min. Earth dist.	12062 Oct 04 11:18	20° ₽ 18'01	0.55400 AU	min. Earth dist.	12063 Sep 16 02:19	0° ჲ 19'01	0.56974 AU
morning rise	12062 Oct 10 05:11	17° ≏ 21'30			12063 Sep 16 13:14	30°R, M)	
direct	12062 Oct 15 05:44	16° Ω 25'26		morning rise	12063 Sep 20 16:22	27° m) 34'47	
morning max el	12062 Oct 29 03:19	23° ჲ 21'28	24°57'07	direct	12063 Sep 26 10:52	26° m) 13'35	
C	12062 Nov 04 02:53	0°M			12063 Oct 06 09:46	0∘ ⊽	
asc. node	12062 Nov 15 23:17	18°M25'26		morning max el	12063 Oct 10 17:30	3° ₽ 39'07	26°29'59
	12062 Nov 21 21:07	0° ∡ ¹		C	12063 Oct 29 17:07	0°M₊	
morning set	12062 Nov 24 06:45	5° ∡ '03'59		asc. node	12063 Nov 02 20:07	7° M 40'27	
C				morning set	12063 Nov 08 17:13	19° M 41'42	
superior conj	12062 Dec 01 02:00	19° ∡ ′57'42	1°38'48	C	12063 Nov 13 10:16	0° ∡ ¹	
minimum elong	12062 Dec 01 01:50	19° ∡ 56'44	1°39'38				
max. Earth dist.	12062 Dec 02 20:49	23° ₹ '52'08	1.32229 AU	superior conj	12063 Nov 15 13:10	4° ∡ ¹43'17	1°35'00
	12062 Dec 05 17:11	ರ°0		minimum elong	12063 Nov 15 12:00	4° ∡ ³36'43	1°35'40
evening rise	12062 Dec 08 08:19	5° る 29'44		max. Earth dist.	12063 Nov 16 03:58	6° ≮ 05'33	1.31520 AU
desc. node	12062 Dec 19 03:24	25° ප් 52'11		evening rise	12063 Nov 22 10:52	19° ∡ ′47'29	
	12062 Dec 21 14:24	0° ≈		S	12063 Nov 27 11:29	ರ°0	
evening max el	12063 Jan 10 10:55	26° ≈ 13'43	27°32'19	desc. node	12063 Dec 06 00:27	15° る 20'41	
Č	12063 Jan 14 23:02	0°) €			12063 Dec 16 00:32	0° ≈	
retrograde	12063 Jan 24 06:10	3°) 35′05		evening max el	12063 Dec 23 17:42	8°≈38'26	27°13'56
evening set	12063 Jan 31 05:06	1° ¥ 11'21		retrograde	12064 Jan 06 15:51	15°≈52'50	
Č	12063 Feb 01 19:05	30° R ≈		evening set	12064 Jan 13 13:33	13° ≈ 45'28	
min. Earth dist.	12063 Feb 03 23:07		0.62897 AU	min. Earth dist.	12064 Jan 17 08:10	11° ≈ 00'38	0.60799 AU
inferior conj	12063 Feb 06 19:04	25° ≈ 19'22	-1°40'48	inferior conj	12064 Jan 20 11:20	8° ≈ 19'24	-2°59'13
minimum elong	12063 Feb 06 22:25	25° ≈ 11'11	1°38'54	minimum elong	12064 Jan 20 17:34		2°56'12
asc. node	12063 Feb 11 22:02	21° ≈ 01'37		morning rise	12064 Jan 28 00:27	3° ≈ 27'33	
morning rise	12063 Feb 13 18:09	20° ≈ 08'11		asc. node	12064 Jan 29 19:21	3° ≈ 09'47	
direct	12063 Feb 16 01:38	19° ≈ 43'07		direct	12064 Jan 30 03:18	3° ≈ 09'19	
morning max el	12063 Feb 22 16:08	23° ≈ 05'37	17°46'38	morning max el	12064 Feb 06 07:43	6° ≈ 45'26	17°56'43
. 8	12063 Feb 28 03:28	0° \		3	12064 Feb 21 05:41	0°) €	
morning set	12063 Mar 10 18:35	17°) 46′22		morning set	12064 Feb 21 21:59	1° ¥ 14'38	
desc. node	12063 Mar 17 04:26	28° ¥ 52'07		Č			
	12063 Mar 17 20:20	$0^{\circ}\Upsilon$		superior conj	12064 Mar 03 07:04	19° ¥ 55'35	-0°01'58
				minimum elong	12064 Mar 03 06:55	19° ¥ 54'57	0°01'43
superior conj	12063 Mar 22 19:04	8° Y 18'49	-0°42'03	behind sun begin	12064 Mar 02 22:50	19°) 19′37	
minimum elong	12063 Mar 22 14:48	8° Y 01'10		behind sun end	12064 Mar 03 15:00	20° ¥ 30'11	
max. Earth dist.	12063 Mar 29 05:48	18° Ƴ 48'51	1.44289 AU	desc. node	12064 Mar 03 01:03	19° ¥ 29'18	
	12063 Apr 05 08:19	0° ႘			12064 Mar 09 04:44	0° Y	
evening rise	12063 Apr 06 19:23	2° 8 15'30		max. Earth dist.	12064 Mar 10 19:32	2° Y '40'58	1.42620 AU
Č	12063 Apr 25 13:32	0°II		evening rise	12064 Mar 16 18:18	12° Y °17'28	
evening max el	12063 May 06 14:33	13° Ⅱ 47'02	20°58'06	<i>8</i>	12064 Mar 28 08:40	0°B	
asc. node	12063 May 10 19:12	17° Ⅱ 17'12		evening max el	12064 Apr 18 09:00	27° 8 33'55	22°13'53
retrograde	12063 May 15 01:41	18° Ⅱ 43'10		S	12064 Apr 21 00:26	0° I I	
evening set	12063 May 19 07:23	17° Ⅱ 02'11		asc. node	12064 Apr 26 16:28	3° Ⅱ 05'51	
inferior conj	12063 May 24 13:41	10° Ⅲ 51'14	3°09'16	retrograde	12064 Apr 27 23:20	3° Ⅱ 13'41	
minimum elong	12063 May 24 12:43	10° Ⅱ 54'34	3°08'25	evening set	12064 May 02 15:48	1° Ⅱ 17'20	
min. Earth dist.	12063 May 25 00:32	10° Ⅱ 13'36	0.68452 AU		12064 May 04 00:11	30°R₩	
morning rise	12063 May 29 17:51	4° П 33'56		inferior conj	12064 May 07 22:54	24° 8 56'29	2°52'53
direct	12063 Jun 04 00:55	2° I 14'23		minimum elong	12064 May 07 21:12	25° 8 02'27	2°51'57
desc. node	12063 Jun 13 05:32	7° Ⅱ 10'40		min. Earth dist.	12064 May 07 20:49	25° 8 03'47	0.68785 AU
morning max el	12063 Jun 14 16:09	8° П 34'42	23°31'51	morning rise	12064 May 13 02:28	18° 8 44'41	
<i>5</i>	12063 Jul 01 11:27	0°©	-	direct	12064 May 17 20:22	16° 8 44'13	
morning set	12063 Jul 19 15:54	28° © 26'19		morning max el	12064 May 17 20:22 12064 May 27 04:39	22° 8 12'40	22°03'15
	12063 Jul 20 14:01	0°Ω		desc. node	12064 May 30 02:30	25° 8 21'01	
max. Earth dist.	12063 Jul 23 15:30		1.39135 AU	acce. node	12064 Jun 02 22:20	0°II	
Larui dist.	12000 Jul 25 15.50	2 0010 71	1.5, 155 110		12064 Jun 23 18:27	0.ಂ ೧ H	
superior conj	12063 Jul 31 05:34	18° Ω 59'26	-0°58'37	morning set	12064 Jun 29 02:40	8° © 26'31	
minimum elong	12063 Jul 31 09:41	19° Ω 18'44		max. Earth dist.	12064 Jul 04 15:28	17° © 30'21	1.41410 AU
ciong	12063 Aug 06 00:15	0°m)	3 30 32	mas. Darm dist.	12064 Jul 11 22:22	0°Ω	1.11710 AU
asc. node	12063 Aug 06 18:43	1° Mp 29'30			1200 1 Jul 11 22,22	~ 0 .	
evening rise	12063 Aug 00 18:43 12063 Aug 09 12:09	6° Mp 47'18		superior conj	12064 Jul 12 09:20	0° Ω 48'22	-1°31'30
evening fise	12005 Aug 09 12.09	∪ ידיעווי ∪ 10 / דיעווי		superior conj	12007 Jul 12 07.20	0 0170 44	1 3137

minimum elong	12064 Jul 12 15:43	1° Ω 16'34	1°31'37	asc. node	12065 Jul 10 12:21	10° Ω 58'31	
evening rise	12064 Jul 22 22:57	20°Ω03'53	1 313,	evening max el	12065 Jul 22 12:24	28°Ω41'31	18°03'35
asc. node	12064 Jul 23 15:30	21° Ω 20'36		. ,	12065 Jul 23 23:36	0° m)	
	12064 Jul 28 09:09	0° m)		retrograde	12065 Jul 29 01:52	2° m/04'12	
evening max el	12064 Aug 07 23:36	15° mp 36'10	18°14'17	evening set	12065 Jul 31 14:50	1° mp 33'30	
retrograde	12064 Aug 15 04:29	19° m) 15'05		C	12065 Aug 03 07:33	30°R Ω	
evening set	12064 Aug 17 09:21	18° m 55'15		inferior conj	12065 Aug 07 05:10	26° Ω 30'43	1°37'51
inferior conj	12064 Aug 24 16:35	14° Mp 12'11	0°24'24	minimum elong	12065 Aug 07 07:38	26° Ω 24'37	1°36'32
minimum elong	12064 Aug 24 17:24	14° m) 10'25	0°23'47	min. Earth dist.	12065 Aug 10 07:21	23° Ω 28'31	0.61349 AU
desc. node	12064 Aug 26 00:37	13° m 02'57		desc. node	12065 Aug 12 22:00	21° Ω 13'35	
min. Earth dist.	12064 Aug 28 00:33	11° m 21'39	0.59064 AU	morning rise	12065 Aug 13 21:51	20° Ω 30'33	
morning rise	12064 Aug 31 22:01	8° m 36'48		direct	12065 Aug 20 13:28	18° Ω 14'41	
direct	12064 Sep 07 06:17	6° Mp 46′49		morning max el	12065 Sep 03 18:44	26° Ω 13'45	27°57'34
morning max el	12064 Sep 21 14:45	14° m 33'44	27°32'42		12065 Sep 07 07:16	0° m)	
	12064 Oct 04 01:22	0∘ 亚			12065 Sep 27 15:17	0∘ 亚	
asc. node	12064 Oct 19 16:53	27° ≙ 16′16		asc. node	12065 Oct 06 13:35	17° ≏ 06'48	
	12064 Oct 21 01:07	0°M₊		morning set	12065 Oct 07 02:51	18° ≙ 15′04	
morning set	12064 Oct 23 00:33	4° M ₊07'00			12065 Oct 12 15:04	0° M	
max. Earth dist.	12064 Oct 29 12:47	18°M19'34	1.31313 AU	max. Earth dist.	12065 Oct 12 19:43	0°M25'27	1.31621 AU
superior conj	12064 Oct 30 00:51		1°25'29	superior conj	12065 Oct 14 11:14	4° M ₊02'57	1°10'25
minimum elong	12064 Oct 29 22:56	19°ML16'07	1°25'51	minimum elong	12065 Oct 14 08:59	3°M50'33	1°10'28
	12064 Nov 03 19:02	0° ∡ 7		evening rise	12065 Oct 21 04:40	18° M ⋅50'55	
evening rise	12064 Nov 05 18:19	4° ∡ 16'16			12065 Oct 26 13:46	0° ∡ ¹	
	12064 Nov 19 06:15	0°₹		desc. node	12065 Nov 08 18:48	22° ∡ ¹08'33	
desc. node	12064 Nov 21 21:35	4° ਰ 11'01			12065 Nov 15 09:42	0°ಕ	
evening max el	12064 Dec 04 17:23	20° ට 12'57	26°21'12	evening max el	12065 Nov 16 08:58	0° る 57'01	24°58'36
retrograde	12064 Dec 18 16:04	27° ට 18'45		retrograde	12065 Nov 30 04:32	7° る 52'14	
evening set	12064 Dec 25 03:44	25° පි 36'47		evening set	12065 Dec 05 19:10	6° පි 41'44	
min. Earth dist.	12064 Dec 29 06:55	23° ට 01'00	0.58659 AU	min. Earth dist.	12065 Dec 10 20:54	3° ප 58'18	0.56722 AU
inferior conj	12065 Jan 01 10:10	20°る40'26		inferior conj	12065 Dec 13 12:50	2°る14'25	
minimum elong	12065 Jan 01 18:29	20°る24'52	4°14'21	minimum elong	12065 Dec 13 19:57	2°る02'48	5°20'08
morning rise	12065 Jan 09 12:04	16°る10'11			12065 Dec 17 04:23	30°₹ ⋌ 7	
direct	12065 Jan 11 14:17	15° る 55'15		morning rise	12065 Dec 21 22:56	28° ₹ 05'50	
asc. node	12065 Jan 15 16:36	16°る55'53	10000100	direct	12065 Dec 24 06:59	27° ∡ 750′22	
morning max el	12065 Jan 19 17:20	19° る 54'49	18°26'33		12065 Dec 30 19:17	0°る	10010100
	12065 Jan 27 05:19	0° ≈		morning max el	12066 Jan 02 17:00	2°る22'37	19°18'09
morning set	12065 Feb 04 14:27	15°≈17'46		asc. node	12066 Jan 02 13:46	2°る14'53	
	12065 Feb 12 07:59	0° ℋ		morning set	12066 Jan 19 15:49	29° る 43'48 0°≈	
superior conj	12065 Feb 13 16:47	2° ∺ 31'56	0°32'45		12066 Jan 19 19:04	0°≈	
minimum elong	12065 Feb 13 18:59	2° \(\frac{7}{42'07}\)	0°32'51	superior conj	12066 Jan 27 19:34	15°≈55'05	1°00'09
desc. node	12065 Feb 17 21:40	10°\(\frac{1}{10}\)	0 32 31	minimum elong	12066 Jan 27 19.34 12066 Jan 27 22:28	15 ≈55 05 16°≈09'13	1°00'09 1°00'22
max. Earth dist.	12065 Feb 21 04:16	15° X 51'41	1.40554 AU	max. Earth dist.	12066 Feb 03 10:34	10 ≈0913 28°≈22'29	1.38328 AU
evening rise	12065 Feb 25 12:47	23°\(\frac{1}{12}\)'29	1.40334 AU	max. Earth dist.	12066 Feb 04 08:09	0° ∺	1.36326 AU
evening rise	12065 Mar 01 17:12	0° Υ		desc. node	12066 Feb 04 18:20	0°) 45'40	
	12065 Mar 22 07:10	0.8 0 1		evening rise	12066 Feb 07 04:32	5°\(\frac{1}{4}\)340	
evening max el	12065 Apr 01 00:00	11° 8 22'53	23°34'30	evening rise	12066 Feb 22 18:06	0° Υ	
retrograde	12065 Apr 11 18:15	17° 8 43'21	20 0 . 00	evening max el	12066 Mar 14 13:40	25° Y 14'15	24°53'24
asc. node	12065 Apr 13 13:48	17° 8 28'03			12066 Mar 20 07:35	0°8	- = -
evening set	12065 Apr 16 22:12	15° 8 33'12		retrograde	12066 Mar 26 09:11	2° 8 06'47	
min. Earth dist.	12065 Apr 21 17:36	9° 8 55'17	0.68659 AU	asc. node	12066 Mar 31 11:10	0° 8 13'03	
inferior conj	12065 Apr 22 08:03	9° 8 05'38	2°26'31		12066 Mar 31 17:49	30°R Ƴ	
minimum elong	12065 Apr 22 05:56	9° 8 12'54		evening set	12066 Apr 01 01:02	29° Y 45′03	
morning rise	12065 Apr 27 13:38	3°800'38		min. Earth dist.	12066 Apr 05 12:35	24° Y 42'47	0.68096 AU
direct	12065 May 01 18:35	1° 8 21'15		inferior conj	12066 Apr 06 15:14	23° Υ 14'50	1°50'20
morning max el	12065 May 09 22:36	6° 8 00'45	20°42'39	minimum elong	12066 Apr 06 13:08	23° Y 21'44	1°49'25
desc. node	12065 May 16 23:20	14° 8 17'52		morning rise	12066 Apr 12 01:28	17° Y 18'03	-
	12065 May 28 02:10	0°II		direct	12066 Apr 15 18:11	15° Y 59'35	
morning set	12065 Jun 08 13:24	17° I I23'52		morning max el	12066 Apr 23 00:05	20° Υ 00'12	19°35'01
	12065 Jun 16 12:36	0°ම			12066 May 01 03:37	0°8	
max. Earth dist.	12065 Jun 16 21:51	0°937'16	1.43391 AU	desc. node	12066 May 03 20:05	3° 8 48'29	
				greatest brilliancy	12066 May 05 16:15	6° 8 29'11	-0.6m
superior conj	12065 Jun 23 14:55	11°939'07	-1°58'32	morning set	12066 May 18 13:29	25° 8 57'31	
minimum elong	12065 Jun 23 21:21	12°506'05			12066 May 21 04:24	0°Ⅱ	
	12065 Jul 04 06:39	0° U		max. Earth dist.	12066 May 30 11:17	14° II 30'23	1.44852 AU
evening rise	12065 Jul 05 18:34	2° Ω 38′21					. 55-110
5							

superior conj	12066 Jun 03 20:29	21° ∏ 28'56	-2°12'39	evening rise	12067 May 29 17:20	24° ∏ 58'25	
minimum elong	12066 Jun 03 22:28	21° II 36'54		evening rise	12067 Jun 01 20:36	0°95	
	12066 Jun 09 02:48	0° ©		greatest brilliancy	12067 Jun 05 14:48	6°900'25	-0.9m
evening rise	12066 Jun 17 17:54	14° © 18'31		asc. node	12067 Jun 14 06:15	19° 5 09'58	
asc. node	12066 Jun 27 09:16	0° Ω 17'10		evening max el	12067 Jun 19 14:59	25° © 43'41	18°37'31
	12066 Jun 27 04:57	0 $^{\circ}$ Ω		retrograde	12067 Jun 26 03:51	29°516'53	
evening max el	12066 Jul 06 02:32	12° Ω 06′32	18°11'35	evening set	12067 Jun 29 09:19	28° © 17'36	
retrograde	12066 Jul 12 11:00	15° Ω 27'36		inferior conj	12067 Jul 05 01:03		2°58'34
evening set	12066 Jul 15 08:11	14° Ω 43'24		minimum elong	12067 Jul 05 02:47		2°57'30
inferior conj	12066 Jul 21 09:18	9° Ω 22'38	2°28'06	min. Earth dist.	12067 Jul 07 00:42	20°515'24	0.65458 AU
minimum elong	12066 Jul 21 11:48	9° Ω 15'38	2°26'48	morning rise	12067 Jul 10 19:20	16°5519'05	
min. Earth dist.	12066 Jul 23 23:25	6° Ω 30'30	0.63546 AU	direct	12067 Jul 17 06:20	13°937'27	
morning rise	12066 Jul 27 13:48	3° Ω 07'43 1° Ω 14'05		desc. node	12067 Jul 17 16:35	13°938'05	26959140
desc. node direct	12066 Jul 30 19:20 12066 Aug 03 05:56	0°Ω33'58		morning max el	12067 Jul 30 14:23 12067 Aug 06 23:53	21° © 29'54 0° Ω	26°58'40
morning max el	12066 Aug 17 03:27	8°Ω35'32	27°44'30		12067 Aug 06 23:33 12067 Aug 26 22:06	0° m)	
morning max cr	12066 Sep 02 17:30	0°m)	27 44 30	morning set	12067 Rug 20 22:00 12067 Sep 04 06:39	15° m) 13'10	
	12066 Sep 19 21:49	0∘ ⊽		max. Earth dist.	12067 Sep 04 00:39	23° m ₂ 38'31	1.33792 AU
morning set	12066 Sep 20 21:50	° - 1° - 59'18		asc. node	12067 Sep 10 06:55	27° m) 11'06	1.55772110
asc. node	12066 Sep 23 10:15	7° Ω 06'24			12067 Sep 11 15:34	0∘ ⊽	
max. Earth dist.	12066 Sep 25 20:56	12° ≏ 13'19	1.32449 AU		r		
	1			superior conj	12067 Sep 12 19:59	2° ≏ 28'40	0°24'25
superior conj	12066 Sep 28 18:20	18° ≏ 25'27	0°49'58	minimum elong	12067 Sep 12 18:46	2° ₽ 22'13	0°24'07
minimum elong	12066 Sep 28 16:16	18° ≏ 14'17	0°49'46	evening rise	12067 Sep 20 02:25	17° ≙ 54'59	
	12066 Oct 04 01:53	0° M			12067 Sep 26 01:22	0° M	
evening rise	12066 Oct 05 15:59	3°M25'27		evening max el	12067 Oct 10 09:00	21°ML13'17	21°39'52
	12066 Oct 19 21:21	0° ∡		desc. node	12067 Oct 13 13:26	23°M58'10	
desc. node	12066 Oct 26 16:05	8° ≯ 52'48		retrograde	12067 Oct 22 17:17	27°ML21'34	
evening max el	12066 Oct 28 19:19	11° ₹ 05'34	23°18'55	evening set	12067 Oct 25 14:43	27°ML02'33	
retrograde	12066 Nov 11 03:52	17° √ 44'29		inferior conj	12067 Nov 03 13:02	23°ML07'00	
evening set	12066 Nov 15 10:55	17° × 704'27	0.55070.444	minimum elong	12067 Nov 03 05:24	23°M17'42	
min. Earth dist.	12066 Nov 22 05:02	13° х 54'49 12° х 58'49	0.55270 AU	min. Earth dist.	12067 Nov 03 11:28	23°M09'12 19°M19'10	0.54583 AU
inferior conj minimum elong	12066 Nov 23 19:33 12066 Nov 23 20:08	12 x · 38 49 12° x · 57 · 58		morning rise direct	12067 Nov 11 21:09 12067 Nov 15 13:39	19 1161910 18°M49'38	
morning rise	12066 Nov 23 20:08 12066 Dec 02 07:01	9° x ¹ 07'36	3 31 03	morning max el	12067 Nov 13 13.39 12067 Nov 28 00:03		22°08'28
direct	12066 Dec 05 04:42	8° × ⁷ 47'21		morning max cr	12067 Dec 02 17:56	0° ⊼ ¹	22 00 20
morning max el	12066 Dec 16 03:19	13°×759'24	20°32'52	asc. node	12067 Dec 02 17:50	6° ∡ 729'29	
asc. node	12066 Dec 20 10:50	18° х 51'35		morning set	12067 Dec 19 09:23	29° х 09'50	
	12066 Dec 27 14:01	ರ°0		Č	12067 Dec 19 18:53	0°ರ	
morning set	12067 Jan 03 22:56	14° る 23'41					
				superior conj	12067 Dec 26 11:21	14° る 14'18	1°32'28
superior conj	12067 Jan 11 10:59	29° る 52'51	1°19'56	minimum elong	12067 Dec 26 12:57	14° る 22'47	1°33'12
minimum elong	12067 Jan 11 13:31	0° ≈ 05'46	1°20'25	max. Earth dist.	12067 Dec 30 08:18	22° る 17'07	1.34306 AU
	12067 Jan 11 12:23	0° ≈			12068 Jan 03 05:17	0° ≈	
max. Earth dist.	12067 Jan 16 18:36	10° ≈ 25'12	1.36177 AU	evening rise	12068 Jan 03 17:12	0° ≈ 57'37	
evening rise	12067 Jan 20 15:11	17°≈40'47		desc. node	12068 Jan 09 11:51	11°≈40'17	
desc. node	12067 Jan 22 15:04	21°≈17'56			12068 Jan 20 16:11	0°) 220) √ 4510.1	26957115
	12067 Jan 27 15:24	0° ℋ 0° Ƴ		evening max el	12068 Feb 07 16:41 12068 Feb 19 06:49	22°) 45′01 0° °	26°57'15
evening max el	12067 Feb 17 01:14 12067 Feb 25 03:13	9° Υ '04'22	26°03'24	retrograde	12068 Feb 19 00.49 12068 Feb 20 23:42	0° Υ 09'16	
retrograde	12067 Mar 09 19:14	16° Υ 18'09	20 03 24	renograde	12068 Feb 20 25:42 12068 Feb 22 15:24	0 1 09 10 30°R ∺	
evening set	12067 Mar 15 22:40	13° Y '48'14		evening set	12068 Feb 27 13:13	27° ₩ 36'08	
asc. node	12067 Mar 18 08:32	11° Υ 27'32		min. Earth dist.	12068 Mar 02 12:41	23°) 42'50	0.65736 AU
min. Earth dist.	12067 Mar 20 03:40	9° Y ′21′06	0.67113 AU	asc. node	12068 Mar 04 05:54	21°) 44'35	
inferior conj	12067 Mar 21 18:30	7° Υ' 20'21	1°04'12	inferior conj	12068 Mar 04 15:36	21° ¥ 16'31	0°07'52
minimum elong	12067 Mar 21 16:59	7° Y °25'02	1°03'37	minimum elong	12068 Mar 04 15:23	21°) (17′11	0°07'59
morning rise	12067 Mar 27 12:00	1° Y ′33′28		transit middle	12068 Mar 04 15:23	21° ₩ 17'11	0°07'59
direct	12067 Mar 30 17:29	0° Ƴ 34'12		transit begin	12068 Mar 04 12:48	21° ∺ 24'37	
morning max el	12067 Apr 06 09:02	4° Y ′08'52	18°43'00	transit end	12068 Mar 04 17:57	21° ¥ 09'45	
desc. node	12067 Apr 20 16:46	23° Y '44'01		morning rise	12068 Mar 10 18:55	15°) 41′32	
	12067 Apr 24 17:37	0°8		direct	12068 Mar 13 14:25	14° ¥ 58′30	
morning set	12067 Apr 28 01:37	5° 8 12'21		morning max el	12068 Mar 19 23:36	18°) 19'58	18°07'31
max. Earth dist.	12067 May 13 05:32	28° 8 53'19	1.45638 AU		12068 Mar 28 19:38	0° Υ	
	12067 May 13 22:35	$\Pi^{\circ}0$		desc. node	12068 Apr 06 13:24	13° Y 57'11	
gunorier con-	12067 May 14 07:20	00π25122	2007152	morning set	12068 Apr 07 16:35	15° Ƴ 47'18 0° ႘	
superior conj minimum elong	12067 May 14 07:39 12067 May 14 02:05	0°П35'33 0°П13'42			12068 Apr 16 12:43	00	
mmmum Ciong	1200/ Iviay 14 02.03	о д 1342	2 00 20				

superior conj	12068 Apr 22 15:37	9° 8 40'31	-1°43'26		12069 Feb 28 13:03	0° \	
minimum elong	12068 Apr 22 06:16	9° 8 03'46		morning max el	12069 Mar 03 17:02	2° ∺ 25'49	17°49'08
max. Earth dist.	12068 Apr 25 01:21	13° 8 26'47		morning set	12069 Mar 20 11:35	27°\day	17 49 08
max. Earm dist.	12068 May 05 16:38	0° Ⅱ	1.43000 AU	morning set	12069 Mar 21 19:42	27 γ (43 33	
evening rise	12068 May 08 18:04	4° ∏ 44'37		desc. node	12069 Mar 24 10:02	4° Υ 23'02	
greatest brilliancy	12068 May 21 01:55	23° Д 39'36	-0.7m	desc. node	1200) Wai 24 10.02	4 1 23 02	
greatest orimancy	12068 May 25 10:00	0°95	-0.7111	superior conj	12069 Apr 02 13:52	19° Ƴ 29'56	-1°05'54
asc. node	12068 May 31 03:20	7° 9 27'34		minimum elong	12069 Apr 02 06:58	19° Υ 02'00	1°05'10
evening max el	12068 Jun 01 23:21	9°526'29	19°20'34	max. Earth dist.	12069 Apr 07 20:16	27° Υ 55'13	1.44992 AU
retrograde	12068 Jun 09 00:56	13° © 24'22	1, 200.	man. Darm dist.	12069 Apr 09 03:53	0°8	1.1.332110
evening set	12068 Jun 12 15:11	12°909'07		evening rise	12069 Apr 18 06:06	14° 8 06'39	
inferior conj	12068 Jun 18 00:59	6°9517'52	3°12'54	<i>5</i>	12069 Apr 28 18:30	0°II	
minimum elong	12068 Jun 18 01:38	6°9515'44	3°12'01	evening max el	12069 May 16 02:18	23° Ⅱ 11'38	20°18'54
min. Earth dist.	12068 Jun 19 09:54	4° © 30'12	0.66973 AU	asc. node	12069 May 18 00:29	24° ∏ 58'42	
morning rise	12068 Jun 23 11:35	29° ∏ 55'11		retrograde	12069 May 23 23:41	27° Ⅱ 44'25	
C	12068 Jun 23 09:26	30°RⅡ		evening set	12069 May 27 23:26	26° Ⅱ 12'56	
direct	12068 Jun 29 13:33	27° Ⅱ 15'35		inferior conj	12069 Jun 02 06:18	20° Ⅱ 08'48	3°13'56
desc. node	12068 Jul 03 13:46	28° Ⅱ 12'57		minimum elong	12069 Jun 02 05:52	20° Ⅱ 10′14	3°13'06
	12068 Jul 06 14:57	0 \circ \odot		min. Earth dist.	12069 Jun 03 01:02	19° Ⅱ 04'44	0.68045 AU
morning max el	12068 Jul 12 01:13	4°5544'12	25°48'25	morning rise	12069 Jun 07 12:00	13° Ⅱ 48'48	
	12068 Jul 31 10:06	$0^{\circ}\Omega$		direct	12069 Jun 13 02:27	11° Ⅱ 19'49	
morning set	12068 Aug 17 01:44	27° Ω 47'43		desc. node	12069 Jun 20 10:53	14° Ⅱ 31'16	
	12068 Aug 18 06:26	0° ™		morning max el	12069 Jun 24 11:05	18° Ⅲ 08'38	24°23'23
max. Earth dist.	12068 Aug 20 19:10	4° ™ 45'47	1.35609 AU		12069 Jul 04 09:55	0ංම	
					12069 Jul 24 11:37	$0^{\circ}\Omega$	
superior conj	12068 Aug 26 13:34	16°Mp06'04	-0°05'37	morning set	12069 Jul 30 02:27	9° £ 30′30	
minimum elong	12068 Aug 26 13:54	16°Mp07'49	0°05'49	max. Earth dist.	12069 Aug 02 17:26	15° Ω 55'23	1.37792 AU
behind sun begin	12068 Aug 26 08:07	15° m 38'39					
behind sun end	12068 Aug 26 19:41	16°M 37'02		superior conj	12069 Aug 09 19:42	29° Ω 08'45	-0°38'51
asc. node	12068 Aug 27 03:36	17° m 17'08		minimum elong	12069 Aug 09 22:20	29° Ω 21'25	0°38'52
	12068 Sep 02 07:53	0∘ ⊽			12069 Aug 10 06:20	0° ™	
evening rise	12068 Sep 03 09:52	2° ≏ 13'54		asc. node	12069 Aug 14 00:18	7° m) 20'11	
	12068 Sep 19 15:40	0° M		evening rise	12069 Aug 18 11:50	16° M 14'50	
evening max el	12068 Sep 21 10:39	1°M55'26	20°15'29		12069 Aug 25 16:39	0∘ ⊽	
desc. node	12068 Sep 29 10:50	6°M56'33		evening max el	12069 Sep 04 02:20	13° ≏ 24'49	19°11'41
retrograde	12068 Oct 02 05:51	7° ™ 17'33		retrograde	12069 Sep 13 05:29	17° ≙ 58'10	
evening set	12068 Oct 04 06:31	7° ™ 07'02		evening set	12069 Sep 15 01:48	17° ≙ 47'46	
inferior conj	12068 Oct 13 06:49	3°M09'39		desc. node	12069 Sep 16 08:16	17° £ 29'12	
minimum elong	12068 Oct 12 20:59	3°M24'11		inferior conj	12069 Sep 23 14:18	13° ≙ 36'40	
min. Earth dist.	12068 Oct 14 19:46		0.54830 AU	minimum elong	12069 Sep 23 08:22	13° £ 46'37	
	12068 Oct 19 01:05	30° ₹ Ω		min. Earth dist.	12069 Sep 26 07:45	11° ≏ 47'18	0.55984 AU
morning rise	12068 Oct 21 10:36	29° Ω 04'07		morning rise	12069 Oct 01 12:09	8° £ 57'55	
direct	12068 Oct 25 23:30	28° Ω 19'36		direct	12069 Oct 06 20:54	7° £ 51'31	25020110
	12068 Nov 01 16:18	0°M	22055155	morning max el	12069 Oct 20 23:14	15° Ω 01'35	25°39'18
morning max el	12068 Nov 08 12:04		23°55'55	1	12069 Nov 01 22:30	0°M	
asc. node	12068 Nov 23 04:46	24°M54'12		asc. node	12069 Nov 10 01:39	13°M53'21	
marning sat	12068 Nov 25 23:58	0° 🔏 56/50		morning set	12069 Nov 17 08:39	28° IL 38'49 0° ∡ 7	
morning set	12068 Dec 02 21:13	13° ≯ 56'50			12069 Nov 17 23:44	0 x ·	
superior conj	12068 Dec 09 17:46	28° ∡ '51'01	1°38'18	superior conj	12069 Nov 24 03:47	13° ∡ ¹34'50	1°37'55
minimum elong	12068 Dec 09 17:46 12068 Dec 09 18:14			minimum elong	12069 Nov 24 03:47 12069 Nov 24 03:09		1°38'40
minimum ciong	12068 Dec 10 06:29	0°る	1 39 08	max. Earth dist.	12069 Nov 25 10:13	16° ₹ 22'58	1.31871 AU
max. Earth dist.	12068 Dec 10 00:25 12068 Dec 12 05:51	4°る14'49	1.32852 AU	evening rise	12069 Dec 01 05:51	28° х 53'11	1.510/1 AC
evening rise	12068 Dec 17 07:08	14°る44'44	1.32032 710	evening rise	12069 Dec 01 18:45	0°る	
evening rise	12068 Dec 25 08:21	0°≈		desc. node	12069 Dec 13 05:47	21° る 32'27	
desc. node	12068 Dec 26 08:47	0 ∞ 1°≈47'37		desc. Hode	12069 Dec 18 12:16	21 ⊙ 3227	
dese. Hode	12069 Jan 14 12:40	0° ∀		evening max el	12070 Jan 02 15:10	18°≈55'50	27°28'41
evening max el	12069 Jan 20 05:20	6° ₩ 06'27	27°27'48	retrograde	12070 Jan 16 12:20	26°≈14'35	
retrograde	12069 Feb 02 21:48	13° X 31'26		evening set	12070 Jan 23 11:23	23°≈57'01	
evening set	12069 Feb 09 18:24	11° \ 02'00		min. Earth dist.	12070 Jan 27 05:09		0.62022 AU
min. Earth dist.	12069 Feb 13 13:46	7° ¥ 39'40	0.64015 AU	inferior conj	12070 Jan 30 04:37	18°≈15'06	
inferior conj	12069 Feb 16 04:01	4°) €57'33		minimum elong	12070 Jan 30 09:11	18° ≈ 04'29	
minimum elong	12069 Feb 16 05:51	4°) €52'45		morning rise	12070 Feb 06 09:39	13°≈11'30	
asc. node				<i>-</i>			
	12069 Feb 19 03:14	2°)(02'47		asc. node	12070 Feb 06 00:33	13° ≈ 19'25	
	12069 Feb 19 03:14 12069 Feb 21 23:37	2°) €02'47 30° R ≈		asc. node direct	12070 Feb 06 00:33 12070 Feb 08 14:41	13°≈19'25 12°≈49'50	
morning rise							17°48'32
morning rise direct	12069 Feb 21 23:37	30° ₹ ≈		direct	12070 Feb 08 14:41	12° ≈ 49′50	17°48'32

	12070 M 02 05:02	100 1 44120			12071 I 20 05.42	0000	
morning set	12070 Mar 03 05:02	10°\(\frac{1}{44}\)'28			12071 Jan 30 05:43	0° ≈	
desc. node	12070 Mar 11 06:40	24°) € 57'06		morning set	12071 Feb 14 14:35	24° ≈ 29'25 0° ∀	
	12070 M 14 11.44	0000000	0924125		12071 Feb 17 13:24	0°π	
superior conj	12070 Mar 14 11:44	0° Υ 26'38 0° Υ 16'42			12071 F 1 24 00 27	1201/20152	0012120
minimum elong	12070 Mar 14 09:23	0°Υ1642 0°Υ	0°24'09	superior conj	12071 Feb 24 09:27	12° ¥ 29'52 12° ¥ 34'42	
D d F	12070 Mar 14 05:27		1 40644 477	minimum elong	12071 Feb 24 10:32		0°13'46
max. Earth dist.	12070 Mar 21 12:29	12° Υ 05'01	1.43644 AU	behind sun begin	12071 Feb 24 06:37	12°) 17'11	
evening rise	12070 Mar 28 21:09	23° Y 45'20		behind sun end	12071 Feb 24 14:27	12° ¥ 52'12	
	12070 Apr 01 22:34	0°8		desc. node	12071 Feb 26 03:16	15° ¥ 35'15	
	12070 Apr 22 22:49	0°Щ		max. Earth dist.	12071 Mar 04 00:33	25°) 42′19	1.41781 AU
evening max el	12070 Apr 28 23:42	6° ∏ 58'22	21°29'30		12071 Mar 06 14:38	0° Υ	
asc. node	12070 May 04 21:41	11° Ⅲ 29'36		evening rise	12071 Mar 09 03:49	4° Y 08'45	
retrograde	12070 May 07 22:04	12° Ⅱ 12'37			12071 Mar 26 05:41	0 \circ 8	
evening set	12070 May 12 08:15	10° Ⅱ 25′06		evening max el	12071 Apr 11 16:31	_	22°47'59
inferior conj	12070 May 17 14:40	4° Ⅱ 09'54	3°03'33	retrograde	12071 Apr 21 18:34	26° 8 43'26	
minimum elong	12070 May 17 13:21	4° Ⅱ 14'28		asc. node	12071 Apr 21 18:59	26° 8 43'26	
min. Earth dist.	12070 May 17 20:00	3° Ⅱ 51'17	0.68651 AU	evening set	12071 Apr 26 15:58	24° 8 40'52	
	12070 May 20 18:09	30°₽ ႘		min. Earth dist.	12071 May 01 16:37	18° 8 42'44	0.68791 AU
morning rise	12070 May 22 18:14	27° 8 54'48		inferior conj	12071 May 02 00:03	18° 8 16'55	2°42'52
direct	12070 May 27 19:51	25° 8 42'42		minimum elong	12071 May 01 22:07	18° 8 23'36	2°41'54
	12070 Jun 05 03:27	$\Pi^{\circ}0$		morning rise	12071 May 07 04:10	12° 8 08'06	
morning max el	12070 Jun 06 21:37	1° Ⅱ 40'48	22°53'36	direct	12071 May 11 16:34	10° 8 16'30	
desc. node	12070 Jun 07 07:55	2° Ⅲ 07'01		morning max el	12071 May 20 12:03	15° 8 22'39	21°27'41
	12070 Jun 28 08:27	0 \circ 20		desc. node	12071 May 25 04:49	20° 8 38'49	
morning set	12070 Jul 11 04:01	20°510'02			12071 Jun 01 07:07	$\Pi^{\circ}0$	
max. Earth dist.	12070 Jul 15 15:15	27°5540'44	1.40121 AU	morning set	12071 Jun 21 03:45	29° Ⅱ 40'44	
	12070 Jul 16 23:37	$0^{\circ}\Omega$		•	12071 Jun 21 08:38	0ංම	
				max. Earth dist.	12071 Jun 27 18:19	10°ഇ19'32	1.42308 AU
superior conj	12070 Jul 23 10:25	11° Ω 27'51	-1°13'00				
minimum elong	12070 Jul 23 15:38	11° Ω 51'35	1°12'54	superior conj	12071 Jul 05 05:08	22° © 52'30	-1°44'10
asc. node	12070 Jul 31 21:03	27° Ω 16'55		minimum elong	12071 Jul 05 11:58	23°521'57	
evening rise	12070 Aug 02 05:15	29° Ω 50′22			12071 Jul 09 06:57	$0^{\circ}\Omega$	
8 21	12070 Aug 02 07:17	0° m)		evening rise	12071 Jul 16 10:08	12° Ω 50'12	
evening max el	12070 Aug 18 05:21		18°29'17	asc. node	12071 Jul 18 17:50	17° Ω 02'45	
retrograde	12070 Aug 25 23:49	29° m 33'07			12071 Jul 26 05:55	0° m)	
evening set	12070 Aug 28 00:43	29° m 17'47		evening max el	12071 Aug 01 15:37	8° m) 26'53	18°07'20
desc. node	12070 Sep 03 05:42	25° m 57'42		retrograde	12071 Aug 08 12:35	11° m) 57'15	10 0, 20
inferior conj	12070 Sep 04 18:46	24° m/ 46'24	-0°28'53	evening set	12071 Aug 10 20:52	11° m ₂ 33'08	
minimum elong	12070 Sep 04 17:38	24° m/ 48'36		inferior conj	12071 Aug 17 20:28	6° Mp 41'05	0°58'33
min. Earth dist.	12070 Sep 08 01:22		0.57823 AU	minimum elong	12071 Aug 17 22:14	6° Mp 37'02	
morning rise	12070 Sep 12 07:05	19° mp 30'24	0.07020110	min. Earth dist.	12071 Aug 21 02:51	3° Mp 43'02	0.60030 AU
direct	12070 Sep 18 08:19	17° m 57'03		desc. node	12071 Aug 21 03:06	3° m/42'28	0.00030110
morning max el	12070 Oct 02 15:59	25° m 31'49	27°00'57	morning rise	12071 Aug 24 20:30	0° m 53'49	
morning max or	12070 Oct 06 20:13	0∘ ত	27 0037	morning rise	12071 Aug 26 12:16	30°RΩ	
	12070 Oct 26 05:43	0°M		direct	12071 Aug 31 08:35	28° Q 52'32	
asc. node	12070 Oct 27 22:28	3°M₁7'59		uncet	12071 Sep 05 10:06	0° m)	
morning set	12070 Nov 01 17:59	13°M11'30		morning max el	12071 Sep	6° Mp 45'12	27°48'14
morning sec	120/01/07 01 17.59	13 1101130		morning max or	12071 Oct 02 04:56	0∘ ರ್	27 1011
superior conj	12070 Nov 08 15:22	28°M19'52	1°31'39	asc. node	12071 Oct 02 04:30 12071 Oct 14 19:13	ა _ 23° ჲ 00'38	
minimum elong	12070 Nov 08 13:50	28°M11'19	1°32'12	morning set	12071 Oct 16 23:26	27° £ 29'57	
max. Earth dist.	12070 Nov 08 18:38	28°M38'03	1.31378 AU	morning set	12071 Oct 18 03:53	0° M .	
max. Lartii dist.	12070 Nov 09 09:20	0° ⊼	1.51576740	max. Earth dist.	12071 Oct 16 03:33	10°M50'31	1.31380 AU
evening rise	12070 Nov 15 10:46	13° ∡ 16'20		max. Lartii dist.	120/1 Oct 25 05.10	10 1103031	1.51500 AC
evening rise	12070 Nov 23 20:38	0°る		superior conj	12071 Oct 24 02:42	13° M L00'31	1°19'45
desc. node	12070 Nov 30 02:51	10°පි46'00		minimum elong	12071 Oct 24 02:42 12071 Oct 24 00:35	12°ML48'47	1°20'00
desc. Hode	12070 Nov 30 02:31 12070 Dec 14 18:28	0°≈		evening rise	12071 Oct 24 00:33 12071 Oct 30 19:40	27°M48'04	1 20 00
evening max el	12070 Dec 14 18:28 12070 Dec 15 19:27	0 ∞ 1°≈00'40	26°55'35	evening rise	12071 Oct 30 19:40 12071 Oct 31 20:20	27 11 3 48 04	
•	12070 Dec 13 13:27 12070 Dec 29 17:52	8°≈10'29	20 33 33	dasa nada		29° ∡ 16′05	
retrograde evening set	12070 Dec 29 17:32 12071 Jan 05 12:32	8°≈10'29 6°≈13'13		desc. node	12071 Nov 16 24:00 12071 Nov 17 12:04	29° メ ・1603	
min. Earth dist.	12071 Jan 03 12.32 12071 Jan 09 09:44	0 ≈13 13 3°≈33'55	0.59889 AU	evening max el	12071 Nov 17 12.04 12071 Nov 27 15:38		25°49'08
inferior conj	12071 Jan 09 09.44 12071 Jan 12 13:54	0°≈59'46		retrograde	12071 Nov 27 13.38 12071 Dec 11 13:09	12 3 13 00	45 H5 U0
minimum elong	12071 Jan 12 13.34 12071 Jan 12 21:13	0 ≈3946 0°≈44'53		evening set	12071 Dec 11 13:09 12071 Dec 17 17:37	19 3 14 34 17° 3 45'13	
minimum elong	12071 Jan 12 21:13 12071 Jan 13 19:42	0°≈44°33 30°Ŗ る	J 4747	min. Earth dist.	12071 Dec 17 17:37 12071 Dec 22 04:10	17° ろ 45°13	0.57797 AU
morning rise	12071 Jan 13 19:42 12071 Jan 20 08:45	30°なる 26° る 16'33		inferior conj	12071 Dec 22 04:10 12071 Dec 25 04:26	13°る08'49 13°る02'00	
direct	12071 Jan 20 08:45 12071 Jan 22 10:51	26°る16'33		minimum elong	12071 Dec 25 04:26 12071 Dec 25 12:49	13° る 0200 12° る 47'14	
asc. node	12071 Jan 22 10:51 12071 Jan 23 21:51	26° ろ 08'26			12071 Dec 25 12:49 12072 Jan 02 10:36	8°る41'23	+ ++ J1
morning max el	12071 Jan 23 21:31 12071 Jan 29 23:38	20° る 44'53	18°06'49	morning rise direct	12072 Jan 02 10:36 12072 Jan 04 14:31	8° る 26'39	
morning max er	120/1 Jan 29 23.38	29 0 44 33	10 0047	uncci	120/2 Jan 04 14.31	0 02039	

1	12072 I 10 10 05	100=20(10)		1	12072 D 27 16 14	260 720110	
asc. node	12072 Jan 10 19:05	10°る36'06	10045145	asc. node	12072 Dec 27 16:14	26° ∡ ′30′19	
morning max el	12072 Jan 13 05:33	12° る 38'31	18°45'45		12072 Dec 30 12:04	0°る	
_	12072 Jan 24 21:47	0° ≈		morning set	12073 Jan 12 15:28	23° る 17'16	
morning set	12072 Jan 29 11:19	8° ≈ 44'19			12073 Jan 15 22:44	0° ≈	
	12072 7 1 07 02 04	250 20145	0045110		10070 1 00 11 10	00 00122	1000105
superior conj	12072 Feb 07 03:06	25°≈28'47	0°45'18	superior conj	12073 Jan 20 11:48	9°≈08'33	1°09'25
minimum elong	12072 Feb 07 05:47	25° ≈ 41'23	0°45'25	minimum elong	12073 Jan 20 14:39	9° ≈ 22'41	1°09'46
	12072 Feb 09 13:17	0° ∀		max. Earth dist.	12073 Jan 26 14:16	20° ≈ 52'45	1.37386 AU
desc. node	12072 Feb 12 23:53	6°) 14′23		desc. node	12073 Jan 29 20:34	26°≈50'15	
max. Earth dist.	12072 Feb 14 08:13	8° ¥ 37'26	1.39614 AU	evening rise	12073 Jan 30 07:42	27° ≈ 39'57	
evening rise	12072 Feb 18 07:30	15° ¥ 28'04			12073 Jan 31 15:23	0° ∀	
	12072 Feb 27 06:57	0° Y			12073 Feb 19 17:03	0° Y	
	12072 Mar 20 00:23	$0^{\circ}S$		evening max el	12073 Mar 06 19:57	18° Y 27'18	25°24'34
evening max el	12072 Mar 24 06:36	4° 8 36'13	24°08'33	retrograde	12073 Mar 19 01:07	25° Ƴ 31'04	
retrograde	12072 Apr 04 11:56	11° 8 11'43		evening set	12073 Mar 24 21:55	23° Y 05′16	
asc. node	12072 Apr 07 16:19	10° 8 25'28		asc. node	12073 Mar 25 13:41	22° Y 30'12	
evening set	12072 Apr 09 21:04	8° 8 55'59		min. Earth dist.	12073 Mar 29 06:29	18° Ƴ 17'57	0.67729 AU
min. Earth dist.	12072 Apr 14 12:49	3° 8 33'30	0.68478 AU	inferior conj	12073 Mar 30 14:21	16° Ƴ 35′02	1°32'01
inferior conj	12072 Apr 15 08:35	2° 8 26'38	2°12'22	minimum elong	12073 Mar 30 12:26	16° Ƴ 41'14	1°31'12
minimum elong	12072 Apr 15 06:25	2° 8 33'58	2°11'22	morning rise	12073 Apr 05 03:23	10° Ƴ 42'13	
Č	12072 Apr 17 05:00	30° ₹Ƴ		direct	12073 Apr 08 15:04	9° Y '32'23	
morning rise	12072 Apr 20 15:51	26° Y 25′10		morning max el	12073 Apr 15 14:04	13° Y 20'43	19°10'48
direct	12072 Apr 24 15:25	24° ℃ 55'01		desc. node	12073 Apr 27 22:20	29° Y '33'46	
morning max el	12072 May 02 09:14	29° Υ 16'26	20°12'05	desc. node	12073 Apr 28 05:23	0°8	
moning man vi	12072 May 03 02:25	0°8	20 12 00	greatest brilliancy	12073 Apr 28 12:58	0° 8 28'18	-0.7m
desc. node	12072 May 11 01:37	9° 8 51'27		morning set	12073 May 09 09:57	17° 8 04'36	0.7111
desc. node	12072 May 11 01:37	0° П		morning set	12073 May 07 07:57	0°Ⅱ	
morning set	12072 May 24 20.21 12072 May 30 07:30	8° Ⅱ 21'08		max. Earth dist.	12073 May 17 17:37 12073 May 22 19:04		1.45272 AU
max. Earth dist.	12072 May 30 07.30 12072 Jun 09 03:53	8 П 21 08 23° П 47'51	1.44089 AU	max. Earth dist.	12073 May 22 19.04	/ щзз з /	1.43272 AU
max. Earth dist.		0°95	1.44009 AU		12072 M 25, 20-47	120T/4/00	2012100
	12072 Jun 13 00:16	0-99		superior conj	12073 May 25 20:47	12° Ⅱ 44′08	
	12072 1 15 00 17	2001 (100	2007121	minimum elong	12073 May 25 19:36	12° Ⅱ 39'27	2°13'56
superior conj	12072 Jun 15 00:17	3°516'00			12073 Jun 05 14:52	0°©	
minimum elong	12072 Jun 15 05:28	3°537'14	2°07'06	evening rise	12073 Jun 09 11:09	6°\$17'41	
evening rise	12072 Jun 27 21:43	25°502'53		asc. node	12073 Jun 21 11:37	25°5542'01	
	12072 Jun 30 18:32	0°Ω			12073 Jun 24 10:53	0°N	
asc. node	12072 Jul 04 14:41	6° £ 33'06		evening max el	12073 Jun 28 19:02	5° Ω 12'23	18°20'32
evening max el	12072 Jul 15 05:17	21° Ω 40'56	18°04'42	retrograde	12073 Jul 05 04:25	8° Ω 37'05	
retrograde	12072 Jul 21 15:36	25° Ω 01'36		evening set	12073 Jul 08 05:01	7° Ω 46'47	
evening set	12072 Jul 24 07:56	24° Ω 25'33		inferior conj	12073 Jul 14 01:43	2° Ω 19'14	
inferior conj	12072 Jul 30 16:10	19° Ω 14'47	2°01'51	minimum elong	12073 Jul 14 03:58	2° Ω 12'43	2°41'59
minimum elong	12072 Jul 30 18:47	19° Ω 07'55	2°00'29		12073 Jul 16 01:38	30° ₹ ∽	
min. Earth dist.	12072 Aug 02 13:41	16° Ω 14'17	0.62304 AU	min. Earth dist.	12073 Jul 16 09:57	29° 5 36'25	0.64399 AU
morning rise	12072 Aug 06 03:26	13° Ω 06'49		morning rise	12073 Jul 20 01:34	26° © 00'29	
desc. node	12072 Aug 07 00:28	12° Ω 31'17		desc. node	12073 Jul 24 21:47	23° © 32'35	
direct	12072 Aug 12 19:52	10° Ω 42'12		direct	12073 Jul 26 16:11	23° © 21'45	
morning max el	12072 Aug 26 22:52	18° Ω 44'24	27°56'31		12073 Aug 07 23:17	$0^{\circ}\Omega$	
	12072 Sep 05 11:07	0° m)		morning max el	12073 Aug 09 08:49	1° Ω 21'53	27°28'31
	12072 Sep 24 02:08	0∘ ত			12073 Aug 30 14:48	0° m)	
morning set	12072 Sep 29 22:55	11° ≏ 28'32		morning set	12073 Sep 13 13:58	25° Mp 01'23	
asc. node	12072 Sep 30 15:53	12° ♀ 55'25			12073 Sep 16 01:44	0∘ ত	
max. Earth dist.	12072 Oct 05 08:12	22° ٩ 49'21	1.31900 AU	asc. node	12073 Sep 17 12:32	2° ₽ 58'02	
				max. Earth dist.	12073 Sep 18 05:44	4° ≏ 27'09	1.32950 AU
superior conj	12072 Oct 07 11:54	27° ₽ 31'09	1°02'22		1		
minimum elong	12072 Oct 07 09:40		1°02'19	superior conj	12073 Sep 21 17:00	11° ≏ 46'46	0°39'43
mmmum viong	12072 Oct 08 14:59	0°M	1 02 17	minimum elong	12073 Sep 21 15:12	11° ⊆ 37'10	0°39'29
evening rise	12072 Oct 14 06:36	12°M22'48		evening rise	12073 Sep 28 17:47	26° ♀ 56'03	0 2 2 2
e vennig rise	12072 Oct 23 01:24	0° ₹		evening rise	12073 Sep 20 17:17 12073 Sep 30 04:33	0°M	
desc. node	12072 Nov 02 21:14	16° ∡ 745′20			12073 Oct 18 01:36	0° ∡ ⊓	
evening max el	12072 Nov 02 21.14 12072 Nov 08 03:59	22° √ 37'55	24°17'19	evening max el	12073 Oct 18 01:30 12073 Oct 20 14:38	2° х ⁷ 41'57	22°35'51
retrograde	12072 Nov 08 03:39 12072 Nov 21 20:29	22 x · 3 / 33 29° x 28'28	∠¬ 1/17	desc. node	12073 Oct 20 14.38 12073 Oct 20 18:33	2° x '41'37' 2° x '51'27	44 33 31
•		29° x '28'28 28° x '31'23				9° × ⁷ 09'57	
evening set	12072 Nov 26 22:41		0.56017 411	retrograde	12073 Nov 02 15:05		
min. Earth dist.	12072 Dec 02 15:11	25° 🗷 39'04	0.56017 AU	evening set	12073 Nov 06 06:51	8° × ⁷ 40'42	0.540// 411
inferior conj	12072 Dec 04 22:13	24° 🗷 14'11		min. Earth dist.	12073 Nov 13 22:31	5° 🗷 14'17	
minimum elong	12072 Dec 05 03:13		5°39'08	inferior conj	12073 Nov 14 22:05	4° ×7 40'52	
morning rise	12072 Dec 13 09:49	20° 🗷 14'20		minimum elong	12073 Nov 14 18:53	4° ×7 45'25	5~4/36
direct	12072 Dec 15 22:29	19° х 757'34	10047111	morning rise	12073 Nov 23 08:21	0° ₹ 52'58	
morning max el	12072 Dec 25 23:58	24° ∡ ⁴46′04	19°47'11	direct	12073 Nov 26 13:32	0° ∡ ¹29'21	

	12072 D 00 04-10	C9. 7 00122	21011117		12074 N 02 20-02	100 M 40117	
morning max el	12073 Dec 08 04:18	6°×700'33	21°11'1/	morning rise	12074 Nov 02 20:03	10°M49'17	
asc. node	12073 Dec 14 13:17	13° ∡ '35'01		direct	12074 Nov 06 21:34	10°M13'51	2205212.4
	12073 Dec 24 01:51	0°る		morning max el	12074 Nov 19 20:10	16°M27'23	22°53'34
morning set	12073 Dec 28 00:16	8° る 00'19			12074 Nov 30 11:02	0° ∡ ¹	
				asc. node	12074 Dec 01 10:16	1° ∡ 734'17	
superior conj	12074 Jan 04 07:26	23° ろ 17'26		morning set	12074 Dec 12 11:32	22° х 47'19	
minimum elong	12074 Jan 04 09:37	23° る 28'45	1°26'41		12074 Dec 15 20:11	0°ප	
	12074 Jan 07 14:25	0° ≈				_	
max. Earth dist.	12074 Jan 09 00:02	2° ≈ 47'16	1.35338 AU	superior conj	12074 Dec 19 10:40	. •	1°35'44
evening rise	12074 Jan 13 01:22	10° ≈ 36′01		minimum elong	12074 Dec 19 11:48	7° る 51'57	1°36'31
desc. node	12074 Jan 16 17:20	17° ≈ 18′54		max. Earth dist.	12074 Dec 22 17:13	14° る 41'04	1.33634 AU
	12074 Jan 24 04:22	0° ℋ		evening rise	12074 Dec 27 08:51	24° る 06'44	
	12074 Feb 15 04:29	0° Y			12074 Dec 30 10:17	0° ≈	
evening max el	12074 Feb 17 09:38	2° Y 15′02	26°28'44	desc. node	12075 Jan 03 14:11	7° ≈ 35'42	
retrograde	12074 Mar 02 08:59	9° Ƴ 34'41			12075 Jan 17 18:06	0° ℋ	
evening set	12074 Mar 08 16:48	7° Y ′02'58		evening max el	12075 Jan 30 23:13	15° ¥ 50′05	27°13'37
asc. node	12074 Mar 12 11:04	3° Y 14'38		retrograde	12075 Feb 13 10:44	23° ∺ 14'52	
min. Earth dist.	12074 Mar 12 19:24	2° Y ′50'08	0.66573 AU	evening set	12075 Feb 20 03:42	20°) 42′43	
inferior conj	12074 Mar 14 15:19	0° Ƴ 37'38	0°41'35	min. Earth dist.	12075 Feb 24 01:21	17° ₩ 02'55	0.65042 AU
minimum elong	12074 Mar 14 14:16	0° Y 40'50	0°41'15	inferior conj	12075 Feb 26 09:07	14° ¥ 28'53	-0°19'03
	12074 Mar 15 03:49	30° Ŗ ₩		minimum elong	12075 Feb 26 09:40	14° ¥ 27′21	0°18'31
morning rise	12074 Mar 20 12:41	24° ¥ 55'14		asc. node	12075 Feb 27 08:27	13°) €24'58	
direct	12074 Mar 23 13:42	24°) €03'16		morning rise	12075 Mar 04 17:16	8° ¥ 59'25	
morning max el	12074 Mar 30 01:38	27°) €31'06	18°25'43	direct	12075 Mar 07 09:07	8° 升 22′02	
	12074 Apr 01 08:26	$0^{\circ}\mathbf{\Upsilon}$		morning max el	12075 Mar 13 17:46	11°) 41′11	17°57'36
desc. node	12074 Apr 14 19:01	19° Ƴ 37'46		-	12075 Mar 26 14:36	0° Υ	
morning set	12074 Apr 19 08:37	26° Y ′51′21		morning set	12075 Mar 31 12:08	8° Y '04'02	
	12074 Apr 21 08:17	0°B		desc. node	12075 Apr 01 15:39	9° Y 57'30	
	•				12075 Apr 14 00:29	0° ႘	
superior conj	12074 May 05 04:23	21° 8 44'27	-1°59'39		•		
minimum elong	12074 May 04 20:22	21° 8 13'07	1°59'45	superior conj	12075 Apr 14 16:42	1° 8 04'26	-1°28'33
max. Earth dist.	12074 May 05 14:08	22° 8 22'32	1.45752 AU	minimum elong	12075 Apr 14 07:49	0° 8 29'08	1°27'55
	12074 May 10 11:15	$\Pi^{\circ}0$		max. Earth dist.	12075 Apr 18 10:31	6° 8 58'41	1.45481 AU
evening rise	12074 May 21 00:14	16° Ⅲ 32′22		evening rise	12075 Apr 30 18:04	26° 8 05'13	
8	12074 May 29 13:47	0°©		<i>y</i>	12075 May 03 07:16	0°II	
greatest brilliancy	12074 May 30 12:16	1° 5 27'19	-0.8m	greatest brilliancy	12075 May 14 19:55	17° Ⅲ 23'46	-0.6m
asc. node	12074 Jun 08 08:38	14°9521'14		8	12075 May 24 02:40	0ಂತಾ	
evening max el	12074 Jun 12 06:04	18° © 53'02	18°53'55	asc. node	12075 May 26 05:45	2°921'25	
retrograde	12074 Jun 18 23:18	22° © 34'57		evening max el	12075 May 26 12:22	2° © 38'13	19°43'35
evening set	12074 Jun 22 08:29	21° © 28'55		retrograde	12075 Jun 02 21:22	6°5549'26	
inferior conj	12074 Jun 27 21:19	15° © 45'59	3°06'25	evening set	12075 Jun 06 15:40	5°927'04	
minimum elong	12074 Jun 27 22:36	15° © 41'55	3°05'26	inferior conj	12075 Jun 11 23:53	29° Ⅲ 30′06	3°14'47
min. Earth dist.	12074 Jun 29 14:43	13° © 35'36	0.66160 AU	minimum elong	12075 Jun 12 00:04	29° Ⅱ 29'29	3°13'57
morning rise	12074 Jul 03 12:01	9° 5 23'34			12075 Jun 11 14:55	30°R Ⅱ	
direct	12074 Jul 09 19:44	6°9541'27		min. Earth dist.	12075 Jun 13 02:36	28° Ⅱ 00'49	0.67495 AU
desc. node	12074 Jul 11 19:03	6° 9 55'17		morning rise	12075 Jun 17 08:06	23° II 08'27	
morning max el	12074 Jul 22 19:40	14° © 25'15	26°31'08	direct	12075 Jun 23 05:25	20° Ⅱ 32'40	
Ü	12074 Aug 04 12:19	$0^{\circ}\Omega$		desc. node	12075 Jun 28 16:13	22° Ⅱ 18′22	
	12074 Aug 23 08:52	0° m)		morning max el	12075 Jul 05 06:04	27° Ⅱ 45′10	25°13'24
morning set	12074 Aug 27 17:23	7° m 59'23		5	12075 Jul 07 08:58	0ංම 	
max. Earth dist.	12074 Aug 31 17:20	15° m 42'02	1.34513 AU		12075 Jul 29 04:43	$0^{\circ}\Omega$	
asc. node	12074 Sep 04 09:11	23° m) 03'43		morning set	12075 Aug 10 05:12	20° Ω 13'14	
				max. Earth dist.	12075 Aug 13 19:44	26° Ω 48'26	1.36514 AU
superior conj	12074 Sep 05 15:33	25° m 39'59	0°12'11		12075 Aug 15 12:31	0° m)	
minimum elong	12074 Sep 05 14:54	25° m/36'36	0°11'54			4	
behind sun begin	12074 Sep 05 10:56	25° m 16'05		superior conj	12075 Aug 20 04:42	9° m 03'46	-0°19'25
behind sun end	12074 Sep 05 18:52	25° m 57'09		minimum elong	12075 Aug 20 05:57	9° m) 09'56	
	12074 Sep 07 17:30	0∘ ⊽		asc. node	12075 Aug 22 05:51	13° m 09'00	-
evening rise	12074 Sep 13 03:12	11° ≏ 21'39		evening rise	12075 Aug 28 08:39	25° m/34'05	
5 - 7	12074 Sep 22 18:38	0°M		<i>5</i>	12075 Aug 30 13:31	0° ⊽	
evening max el	12074 Oct 02 08:47	13°M01'19	21°01'41	evening max el	12075 Sep 14 16:24	24° ≏ 02'29	19°45'34
desc. node	12074 Oct 07 15:56	17°M06'10		retrograde	12075 Sep 24 18:01	29° ഫ 03'28	
retrograde	12074 Oct 14 02:04	18°M50'30		desc. node	12075 Sep 24 13:22	29° ഫ 03'22	
evening set	12074 Oct 16 12:41	18°M36'24		evening set	12075 Sep 26 15:21	28° ♀ 53'39	
inferior conj	12074 Oct 25 13:46	14°M41'58	-4°57'51	inferior conj	12075 Oct 05 11:54	24° £ 51'12	-3°20'46
minimum elong	12074 Oct 25 04:12	14°M55'30		minimum elong	12075 Oct 05 03:17	25° ഫ 04'33	
min. Earth dist.	12074 Oct 26 05:17		0.54575 AU	min. Earth dist.	12075 Oct 07 14:31		0.55223 AU

	12075 0 . 12 12 24	200 2 22100			120766 22 22 10	00 0 40150	
morning rise	12075 Oct 13 13:34	20° ≏ 33'08		morning rise	12076 Sep 22 22:10	0° ჲ 40'59	
direct	12075 Oct 18 11:04	19° ≏ 40'22			12076 Sep 24 17:30	30°₽, ™)	
morning max el	12075 Nov 01 06:46	26° ≏ 31'34	24°41'40	direct	12076 Sep 28 14:13	29° Mp 23'46	
	12075 Nov 04 14:55	0° M ₊			12076 Oct 02 11:41	0∘ ত	
asc. node	12075 Nov 18 07:10	20°M14'57		morning max el	12076 Oct 12 20:06	6° ≙ 45'51	26°17'45
	12075 Nov 23 08:42	0° ∡ ¹			12076 Oct 29 23:47	0° M	
morning set	12075 Nov 26 23:23	7° ∡ ³32'49		asc. node	12076 Nov 04 04:00	9° M 26'19	
morning out	120701107 20 23.23	, ,, 52 .,		morning set	12076 Nov 10 10:09	22°M12'11	
aumorior comi	12075 Dec 03 18:50	22° ∡ ¹26'11	1°38'53	morning set	12076 Nov 13 23:59	0° x ⁷	
superior conj					120/0 NOV 13 23.39	0 x.	
minimum elong	12075 Dec 03 18:49	22° ₹ 26'08	1°39'42				
max. Earth dist.	12075 Dec 05 18:06	26° ⊀ 44'04	1.32371 AU	superior conj	12076 Nov 17 05:46	7° . 711′54	1°35'58
	12075 Dec 07 06:28	0°ප		minimum elong	12076 Nov 17 04:43	7° ∡ ¹06'06	1°36'39
evening rise	12075 Dec 11 02:49	8° る 03'27		max. Earth dist.	12076 Nov 18 00:34	8° ∡ 56′22	1.31592 AU
desc. node	12075 Dec 21 11:07	27° る 34'29		evening rise	12076 Nov 24 04:27	22° ∡ 19'15	
	12075 Dec 22 21:15	0° ≈			12076 Nov 27 22:34	0°ರ	
evening max el	12076 Jan 13 10:55	28°≈59'21	27°32'11	desc. node	12076 Dec 07 08:08	17° る 07'45	
* · · · · · · · · · · · · · · · · · · ·	12076 Jan 14 13:07	0°) €	_,		12076 Dec 15 20:47	0° ≈	
ratra ara da	12076 Jan 27 05:31	6° ¥ 21'54		arraning may al	12076 Dec 25 18:28	11°≈30'33	27010152
retrograde				evening max el			27 1832
evening set	12076 Feb 03 04:04	3°) ₹56'17		retrograde	12077 Jan 08 16:33	18°≈46'28	
min. Earth dist.	12076 Feb 06 22:16	0°) 46′09	0.63193 AU	evening set	12077 Jan 15 14:49	16° ≈ 36′08	
	12076 Feb 07 17:13	30° ₹ ≈		min. Earth dist.	12077 Jan 19 08:59	13° ≈ 48'36	0.61119 AU
inferior conj	12076 Feb 09 16:54	28° ≈ 00'55	-1°29'25	inferior conj	12077 Jan 22 11:23	11° ≈ 05'38	-2°47'09
minimum elong	12076 Feb 09 19:50	27° ≈ 53'37	1°27'41	minimum elong	12077 Jan 22 17:12	10° ≈ 52'52	2°44'15
asc. node	12076 Feb 14 05:50	24°≈01'53		morning rise	12077 Jan 29 22:27	6°≈10'45	
morning rise	12076 Feb 16 13:57	22° ≈ 47'16		asc. node	12077 Jan 31 03:08	5° ≈ 55'31	
direct	12076 Feb 18 22:18	22° ≈ 20'55		direct	12077 Feb 01 01:42	5° ≈ 51'47	
morning max el	12076 Feb 25 11:31	25°≈42'15	17°46'45	morning max el	12077 Feb 08 03:35	9°≈25'22	17052150
morning max er			17 40 43	morning max er			17 33 36
	12076 Feb 29 03:00	0°) {			12077 Feb 21 15:19	0°) {	
morning set	12076 Mar 12 17:28	20°) 30′26		morning set	12077 Feb 23 18:23	3° ¥ 51'39	
	12076 Mar 18 05:49	0° Y		desc. node	12077 Mar 05 08:52	21° 米 03'46	
desc. node	12076 Mar 18 12:15	0° Y 27′26					
				superior conj	12077 Mar 06 08:50	22°) 47'51	-0°07'46
superior conj	12076 Mar 25 00:30	11° Y 21'37	-0°48'22	minimum elong	12077 Mar 06 08:09	22°) 44'58	0°07'29
minimum elong	12076 Mar 24 19:32	11° Y '01'09	0°47'43	behind sun begin	12077 Mar 06 00:46	22° 升 12'57	
max. Earth dist.	12076 Mar 31 04:57	21° Y ′22'54	1.44491 AU	behind sun end	12077 Mar 06 15:33	23°) 16′54	
Titali. Darui dibi.	12076 Apr 05 16:11	0°8	1	oviiiiu buii viiu	12077 Mar 10 14:14	0°Υ	
evening rise	12076 Apr 09 05:29	5° 8 29'59		max. Earth dist.	12077 Mar 10 14:14 12077 Mar 13 19:01	5°Υ18'36	1.42899 AU
evening rise	=						1.42099 AU
	12076 Apr 25 16:24	0°II		evening rise	12077 Mar 20 01:55	15° Y ′24'39	
evening max el	12076 May 08 12:51	16° Ⅱ 24'06	20°47'30		12077 Mar 29 14:38	0°8	
asc. node	12076 May 12 02:58	19° Ⅱ 29'19			12077 Apr 21 03:44	Π °0	
retrograde	12076 May 16 20:18	21° Ⅱ 14'10		evening max el	12077 Apr 21 07:57	0° Ⅱ 10'40	22°02'11
evening set	12076 May 21 00:25	19° Ⅲ 35'37		asc. node	12077 Apr 29 00:14	5° Ⅱ 29'33	
inferior conj	12076 May 26 06:47	13° Ⅲ 26′15	3°10'49	retrograde	12077 Apr 30 18:11	5° Ⅱ 44'02	
minimum elong	12076 May 26 05:57	13° Ⅲ 29′07	3°09'59	evening set	12077 May 05 08:57	3° Ⅲ 50′01	
min. Earth dist.	12076 May 26 19:38	12° Ⅱ 41'48	0.68363 AU	Č	12077 May 08 20:12	30° ₹ 8	
morning rise	12076 May 31 11:16	7° I 08'08		inferior conj	12077 May 10 15:49	27° 8 30'31	2°56'01
direct	12076 Jun 05 20:13	4° ∏ 46'02		minimum elong	12077 May 10 13:49 12077 May 10 14:12	27° 8 36'09	2°55'05
				•	•		
desc. node	12076 Jun 14 13:17	9° Ⅱ 12'55	2204544	min. Earth dist.	12077 May 10 15:40	27° 8 31'04	0.68764 AU
morning max el	12076 Jun 16 16:09	11° Ⅱ 14'12	23~45'13	morning rise	12077 May 15 19:17	21° 8 17'43	
	12076 Jul 01 15:09	0		direct	12077 May 20 15:10	19° 8 14'07	
	12076 Jul 20 23:09	0 \circ Ω		morning max el	12077 May 30 03:58	24° 8 50'26	22°16'05
morning set	12076 Jul 21 20:42	1° Ω 31'11		desc. node	12077 Jun 01 10:15	27° 8 14'43	
max. Earth dist.	12076 Jul 25 17:18	8° Ω 11'40	1.38785 AU		12077 Jun 03 19:00	$\Pi^{\circ}0$	
					12077 Jun 25 01:31	0°©	
superior conj	12076 Aug 02 04:49	21° Ω 49'23	-0°53'25	morning set	12077 Jul 02 11:21	11° © 41'53	
minimum elong	12076 Aug 02 04:49	$22^{\circ}\Omega06'58$		max. Earth dist.	12077 Jul 02 11:21 12077 Jul 07 16:21	20°9517'01	1.41082 AU
mminum ciong	-		3 33 22	max. Larm tist.		20 3 1701 0° Ω	1.71002 AU
1	12076 Aug 06 11:28	0° Т р			12077 Jul 13 08:16	0 86	
asc. node	12076 Aug 08 02:35	3° Mp 10'13			10077 1 17 17 17	20 0 4 22 22	1006154
evening rise	12076 Aug 11 07:27	9° m/25'58		superior conj	12077 Jul 15 11:35	3° Ω 46'42	
	12076 Aug 22 19:46	0∘ ⊽		minimum elong	12077 Jul 15 17:42	4° Ω 13'58	1°26'50
evening max el	12076 Aug 27 13:18	5° Ω 51'45	18°50'59	evening rise	12077 Jul 25 20:06	22° Ω 47'57	
retrograde	12076 Sep 05 01:33	10° ≏ 07'30		asc. node	12077 Jul 25 23:20	23° Q 03'03	
evening set	12076 Sep 06 22:59	9° ॒ 55'38			12077 Jul 29 17:16	0° m)	
desc. node	12076 Sep 10 10:47	8° ≏ 37'59		evening max el	12077 Aug 10 19:57	18° m) 22'00	18°17'31
inferior conj	12076 Sep 15 03:59	5° Ω 36'11	-1°29'00	retrograde	12077 Aug 18 03:58	22° m/04'25	
minimum elong	12076 Sep 15 00:14	5° - 42'55		evening set	12077 Aug 10 03:36	21° m/ 45'53	
min. Earth dist.	12076 Sep 13 00:14 12076 Sep 18 04:49	3° £ 26'09	0.56695 AU	inferior conj	12077 Aug 20 07.43 12077 Aug 27 17:45	17° My 05'57	0°11'06
mm. Larm UISt.	12010 Sep 10 04.49	J == 20 09	0.50075 AU	microi conj	12011 Aug 21 11.43	1/ II/U33/	0 11 00

minimum elong	12077 Aug 27 18:08	17° m 05'09	0°10'42	retrograde	12078 Jul 31 23:13	4° Mp 47'46	
transit middle	12077 Aug 27 18:08 12077 Aug 27 18:08	17 mg 05 09	0°10'42	evening set	12078 Aug 03 11:00	4° Mp 18'49	
transit begin	12077 Aug 27 15:32	17° my 03°07	0 10 42	evening set	12078 Aug 09 10:29	30°RΩ	
transit end	12077 Aug 27 13:32 12077 Aug 27 20:44	16° m 59'40		inferior conj	12078 Aug 10 03:39	29° Ω 18'43	1°28'15
desc. node	12077 Aug 28 08:13	16° m ₂ 35'27		minimum elong	12078 Aug 10 05:59	29°Ω13'03	1°26'59
min. Earth dist.	12077 Aug 31 01:50	14° m) 19'08	0.58735 AU	min. Earth dist.	12078 Aug 13 07:07	26°Ω16'59	0.61013 AU
morning rise	12077 Sep 04 01:02	11° m ₂ 35'23	0.30733710	desc. node	12078 Aug 15 05:37	24°Ω36'14	0.01013710
direct	12077 Sep	9° m) 49'32		morning rise	12078 Aug 16 22:14	23° Ω 21'40	
morning max el	12077 Sep 24 16:05		27°25'39	direct	12078 Aug 23 13:12	21° Ω 09'25	
morning man vi	12077 Oct 05 00:33	0∘ ⊽	27 20 0 5	morning max el	12078 Sep 06 19:09	29°Ω06'45	27°56'20
asc. node	12077 Oct 22 00:45	28° ♀ 59'24		morning man er	12078 Sep 07 16:11	0° m)	2, 0020
	12077 Oct 22 12:48	0°M			12078 Sep 28 23:13	0∘ ⊽	
morning set	12077 Oct 25 18:02	6°MJ39'33		asc. node	12078 Oct 08 21:27	ა — 18° ჲ 48'00	
				morning set	12078 Oct 09 21:12	20° £ 50'16	
superior conj	12077 Nov 01 17:28	21°M56'06	1°27'17	morning sec	12078 Oct 14 04:32	0°M	
minimum elong	12077 Nov 01 15:39	21°M45'56	1°27'43	max. Earth dist.	12078 Oct 15 16:49	3°M18'29	1.31545 AU
max. Earth dist.	12077 Nov 01 09:19	21°ML10'39	1.31313 AU				
	12077 Nov 05 08:30	0° ∡ 7		superior conj	12078 Oct 17 04:08	6°M33'29	1°13'02
evening rise	12077 Nov 08 11:17	6° √ 46'51		minimum elong	12078 Oct 17 01:55	6°M21'09	1°13'09
e vennig 1150	12077 Nov 20 11:36	0°ਰ		evening rise	12078 Oct 23 21:18	21°M20'53	1 15 0)
desc. node	12077 Nov 24 05:14	6° ට 04'34		evening rise	12078 Oct 28 00:28	0° ∡ 7	
evening max el	12077 Dec 07 19:25		26°31'10	desc. node	12078 Nov 11 02:25	24° × 711'04	
e vennig man er	12077 Dec 18 21:14	0°≈	20 31 10	desc. node	12078 Nov 15 15:44	0°ਰ	
retrograde	12077 Dec 21 18:15	0°≈20'08		evening max el	12078 Nov 19 12:12	[°] ਰ04'30	25°12'21
ronogrado	12077 Dec 24 14:29	30°R₹		retrograde	12078 Dec 03 08:20	11° る 01'07	20 1221
evening set	12077 Dec 28 07:57	28° පි 34'06		evening set	12078 Dec 09 02:59	9° ♂ 45'44	
min. Earth dist.	12078 Jan 01 09:16	25° ප 57'47	0.58974 AU	min. Earth dist.	12078 Dec 14 00:16	7° る 04'46	0.56988 AU
inferior conj	12078 Jan 04 13:01	23° ප 33'14		inferior conj	12078 Dec 16 18:46	5° る 14'39	
minimum elong	12078 Jan 04 21:09	23° ට 17'39		minimum elong	12078 Dec 17 02:24	5° る 01'59	
morning rise	12078 Jan 12 13:12	18° ප 59'27	. 0200	morning rise	12078 Dec 25 04:04	1°る02'59	0 11 19
direct	12078 Jan 14 15:10	18° පි 44'14		direct	12078 Dec 27 10:50	0° る 47'49	
asc. node	12078 Jan 18 00:22	19° ට 26'36		asc. node	12079 Jan 04 21:33	4° ට 32'31	
morning max el	12078 Jan 22 14:18	22° ට 39'51	18°20'44	morning max el	12079 Jan 05 15:39	5° る 14'29	19°09'01
	12078 Jan 28 08:32	0° ≈			12079 Jan 21 06:17	0° ≈	-, -, -,
morning set							
	120/8 Feb 0/ 09:12	17°≈50'37		morning set	12079 Jan 22 09:28	2 ≈ 14 1 /	
morning set	12078 Feb 07 09:12 12078 Feb 13 19:09			morning set	12079 Jan 22 09:28	2° ≈ 14'17	
morning set	12078 Feb 07 09:12 12078 Feb 13 19:09	0° \		C			0°56'28
-	12078 Feb 13 19:09	0° ∺	0°27'56	superior conj	12079 Jan 30 16:05	18° ≈ 33'20	0°56'28 0°56'41
superior conj	12078 Feb 13 19:09 12078 Feb 16 15:32	0° 光 5° 光 16′02		C	12079 Jan 30 16:05 12079 Jan 30 18:58	18°≈33'20 18°≈47'15	
superior conj minimum elong	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30	0°\ 5°\16'02 5°\25'02		superior conj minimum elong	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50	18°≈33'20 18°≈47'15 0°¥	0°56'41
superior conj minimum elong desc. node	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27	0°¥ 5°¥16′02 5°¥25′02 11°¥42′43	0°28'03	superior conj minimum elong max. Earth dist.	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14	18°≈33'20 18°≈47'15 0° ℋ 1° ℋ 14'03	
superior conj minimum elong desc. node max. Earth dist.	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31	0°₩ 5°₩16′02 5°₩25′02 11°₩42′43 18°₩36′18		superior conj minimum elong max. Earth dist. desc. node	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04	18°≈33'20 18°≈47'15 0° X 1° X 14'03 2° X 20'40	0°56'41
superior conj minimum elong desc. node	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14	0°¥ 5°¥16'02 5°¥25'02 11°¥42'43 18°¥36'18 26°¥11'34	0°28'03	superior conj minimum elong max. Earth dist.	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57	0°56'41
superior conj minimum elong desc. node max. Earth dist.	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27	0° \ 5° \ 16'02 5° \ 25'02 11° \ \ 42'43 18° \ \ 36'18 26° \ \ 11'34 0° \	0°28'03	superior conj minimum elong max. Earth dist. desc. node evening rise	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29	18°≈33'20 18°≈47'15 0°₩ 1°₩14'03 2°₩20'40 7°₩53'57 0°Υ'	0°56'41 1.38660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45	0° H 5° H 16'02 5° H 25'02 11° H 42'43 18° H 36'18 26° H 11'34 0° Υ 0° Θ	0°28'03 1.40879 AU	superior conj minimum elong max. Earth dist. desc. node	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09	18°≈33'20 18°≈47'15 0° ₭ 1° ₭ 14'03 2° ₭ 20'40 7° ₭ 53'57 0° ♀ 27° ♀ 51'06	0°56'41 1.38660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24	0° H 5° H 16'02 5° H 25'02 11° H 42'43 18° H 36'18 26° H 11'34 0° Υ 0° Θ 13° Θ 59'49	0°28'03	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ' 27° Ψ'51'06 0° ₩	0°56'41 1.38660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30	0°¥ 5°¥16'02 5°¥25'02 11°¥42'43 18°¥36'18 26°¥11'34 0°° 0°¥ 13°♥59'49 20°♥14'20	0°28'03 1.40879 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ₩ 4° ₩ 39'20	0°56'41 1.38660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32	0°¥ 5°¥16'02 5°¥25'02 11°¥42'43 18°¥36'18 26°¥11'34 0°° 0°¥ 13°₩59'49 20°₩14'20 20°₩6'02	0°28'03 1.40879 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ੴ 4° ₭ 39'20 3° ₭ 06'08	0°56'41 1.38660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44	0° H 5° H 16'02 5° H 25'02 11° H 42'43 18° H 36'18 26° H 11'34 0° Y 0° B 13° B 59'49 20° B 14'20 20° B 06'02 18° B 06'10	0°28'03 1.40879 AU 23°22'30	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ੴ 4° ₭ 339'20 3° ₭ 06'08 2° ₭ 19'02	0°56'41 1.38660 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27	0° H 5° H 16'02 5° H 25'02 11° H 42'43 18° H 36'18 26° H 11'34 0° Y 0° B 13° B 59'49 20° B 06'02 18° B 06'10 12° B 23'00	0°28'03 1.40879 AU 23°22'30 0.68706 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ₩ 4° ₩ 339'20 3° ₩ 06'08 2° ₩ 19'02 30° ℝ Ψ	0°56'41 1.38660 AU 24°42'02
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04	0° H 5° H 16'02 5° H 25'02 11° H 42'43 18° H 36'18 26° H 11'34 0° Y 0° B 13° B 59'49 20° B 14'20 20° B 06'10 12° B 23'00 11° B 39'31	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ₩ 4° ₩ 39'20 3° ₩ 06'08 2° ₩ 19'02 30° ℝ Ψ 27° Ψ 11'38	0°56'41 1.38660 AU 24°42'02 0.68209 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00	5° χ 16'02 5° χ 25'02 11° χ 42'43 18° χ 36'18 26° χ 11'34 0° γ 0° 8 13° δ 59'49 20° δ 06'02 18° δ 06'10 12° δ 23'00 11° δ 39'31 11° δ 46'41	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	12079 Jan 30 16:05 12079 Jan 30 18:58 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ₩ 4° ₩ 39'20 3° ₩ 06'08 2° ₩ 19'02 30° ℝ Ψ 27° Ψ 11'38 25° Ψ 48'59	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 15 21:32 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 30 06:11	5° X 16'02 5° X 25'02 11° X 42'43 18° X 36'18 26° X 11'34 0° Y 0° X 13° X 59'49 20° X 14'20 20° X 06'10 12° X 23'00 11° X 39'31 11° X 46'41 5° X 33'27	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ₩ 4° ₩ 39'20 3° ₩ 06'08 2° ₩ 19'02 30° ℝ Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05	0°56'41 1.38660 AU 24°42'02 0.68209 AU
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 30 06:11 12078 May 04 13:05 12078 May 19 07:07 12078 May 19 07:07 12078 May 29 07:06 12078 Jun 12 01:09 12078 Jun 17 20:57 12078 Jun 19 21:56	5° ★16'02 5° ★25'02 11° ★42'43 18° ★36'18 26° ★11'34 0° ♀ 0° ℧ 13° ℧59'49 20° ℧06'02 18° ℧06'10 12° ℧23'00 11° ℧39'31 11° ℧46'41 5° ℧33'27 3° ℧50'47 8° ℧36'51 16° ℧05'39 0° Ⅱ 20° Ⅱ47'14 0° 孁 3° 亟17'32	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11 2°30'10 20°53'58	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31 12079 Apr 09 06:31 12079 Apr 14 18:03 12079 Apr 25 21:13 12079 May 02 03:47 12079 May 02 03:47 12079 May 06 03:52 12079 May 08 16:21 12079 May 08 16:21 12079 May 22 01:27 12079 May 22 11:41	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ੴ 4° ੴ 39'20 3° ੴ 06'08 2° ੴ 19'02 30° R Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05 19° Ψ 51'02 18° Ψ 29'32 22° Ψ 34'58 0° ੴ 5° ੴ 31'53 9° ੴ 10'17 29° ੴ 20'37 0° Π	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30 1°55'33 19°44'11 -0.6m
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superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 30 06:11 12078 May 04 13:05 12078 May 12 20:52 12078 May 19 07:07 12078 May 29 07:06 12078 Jun 12 01:09 12078 Jun 17 20:57 12078 Jun 19 21:56	5° X 16'02 5° X 25'02 11° X 42'43 18° X 36'18 26° X 11'34 0° Y 0° X 13° X 59'49 20° X 06'10 12° X 23'00 11° X 39'31 11° X 46'41 5° X 33'27 3° X 50'47 8° X 36'51 16° X 05'39 0° X 0° X 14° X 14'14 0° X 3° X 17'32 14° X 15'03 15° X 15'03	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11 2°30'10 20°53'58 1.43126 AU -1°55'08	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31 12079 Apr 09 06:31 12079 Apr 14 18:03 12079 Apr 25 21:13 12079 May 02 03:47 12079 May 02 03:47 12079 May 06 03:52 12079 May 08 16:21 12079 May 22 01:27 12079 May 22 11:41 12079 Jun 02 10:36	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ੴ 4° ੴ 39'20 3° ੴ 06'08 2° ੴ 19'02 30° ℝ Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05 19° Ψ 51'02 18° Ψ 29'32 22° Ψ 34'58 0° ੴ 5° ੴ 31'53 9° ੴ 10'17 29° ੴ 20'37 0° Ⅲ 17° Ⅲ 05'29	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30 1°55'33 19°44'11 -0.6m 1.44676 AU
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 30 06:11 12078 May 04 13:05 12078 May 12 20:52 12078 May 19 07:07 12078 May 29 07:06 12078 Jun 12 01:09 12078 Jun 17 20:57 12078 Jun 17 20:57 12078 Jun 19 21:56	5° X 16'02 5° X 25'02 11° X 42'43 18° X 36'18 26° X 11'34 0° Y 0° X 13° X 59'49 20° X 06'02 18° X 06'10 12° X 23'00 11° X 39'31 11° X 46'41 5° X 33'27 3° X 50'47 8° X 36'51 16° X 05'39 0° X 20° X 44'14 0° X 3° X 51'132 14° X 546'53 15° X 15'03 0° X	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11 2°30'10 20°53'58 1.43126 AU -1°55'08	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31 12079 Apr 14 18:03 12079 Apr 18 12:32 12079 Apr 25 21:13 12079 May 02 03:47 12079 May 04 03:52 12079 May 08 16:21 12079 May 08 16:21 12079 May 22 01:27 12079 May 22 11:41 12079 Jun 07 05:38	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ℧ 4° ℧ 39'20 3° ℧ 06'08 2° ℧ 19'02 30° ℟ Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05 19° Ψ 51'02 18° Ψ 29'32 22° Ψ 34'58 0° ℧ 5° ℧ 31'53 9° ℧ 10'17 29° ℧ 20'37 0° Ⅲ 17° Ⅲ 05'29	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30 1°55'33 19°44'11 -0.6m 1.44676 AU -2°11'37
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 30 06:11 12078 May 04 13:05 12078 May 12 20:52 12078 May 19 07:07 12078 May 29 07:06 12078 Jun 12 01:09 12078 Jun 17 20:57 12078 Jun 26 20:41 12078 Jun 27 03:21 12078 Jul 05 15:56 12078 Jul 08 18:16	0° X 5° X 16'02 5° X 25'02 11° X 42'43 18° X 36'18 26° X 11'34 0° Y 0° X 13° X 59'49 20° X 06'02 18° X 06'10 12° X 23'00 11° X 39'31 11° X 46'41 5° X 33'27 3° X 50'47 8° X 36'51 16° X 05'39 0° X 20° X 47'14 0° X 3° X 917'32 14° X 946'53 15° X 915'03 0° X 5° X 29'39	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11 2°30'10 20°53'58 1.43126 AU -1°55'08	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31 12079 Apr 14 18:03 12079 Apr 18 12:32 12079 Apr 25 21:13 12079 May 02 03:47 12079 May 02 03:47 12079 May 08 16:21 12079 May 08 16:21 12079 May 22 01:27 12079 May 22 11:41 12079 Jun 07 05:38 12079 Jun 07 05:38	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ℧ 4° ℧ 39'20 3° ℧ 06'08 2° ℧ 19'02 30° ℟ Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05 19° Ψ 51'02 18° Ψ 29'32 22° Ψ 34'58 0° ℧ 5° ℧ 31'53 9° ℧ 10'17 29° ℧ 20'37 0° Ⅲ 17° Ⅲ 05'29 24° Ⅲ 45'01 24° Ⅲ 55'02	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30 1°55'33 19°44'11 -0.6m 1.44676 AU -2°11'37
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 24 23:00 12078 Apr 30 06:11 12078 May 04 13:05 12078 May 12 20:52 12078 May 19 07:07 12078 May 29 07:06 12078 Jun 12 01:09 12078 Jun 17 20:57 12078 Jun 19 21:56 12078 Jun 26 20:41 12078 Jun 27 03:21 12078 Jun 05 15:56 12078 Jul 08 18:16 12078 Jul 08 18:16	0°¥ 5°¥16'02 5°¥25'02 11°¥42'43 18°¥36'18 26°¥11'34 0°Y 0°℧ 13°℧59'49 20°℧6'02 18°℧6'02 18°℧6'10 12°℧23'00 11°℧39'31 11°℧46'41 5°℧33'27 3°℧50'47 8°℧36'51 16°℧05'39 0°Ⅲ 20°Ⅲ47'14 0°☞ 3°亟17'32 14°亟46'53 15°亟15'03 0°Ω 5°Ω29'39 12°Ω43'28	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11 2°30'10 20°53'58 1.43126 AU -1°55'08	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31 12079 Apr 14 18:03 12079 Apr 18 12:32 12079 Apr 25 21:13 12079 Apr 25 21:13 12079 May 02 03:47 12079 May 06 03:52 12079 May 08 16:21 12079 May 22 01:27 12079 May 22 11:41 12079 Jun 07 05:38 12079 Jun 07 05:38 12079 Jun 07 05:38	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ₩ 4° ₩ 39'20 3° ₩ 06'08 2° ₩ 19'02 30° κ Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05 19° Ψ 51'02 18° Ψ 29'32 22° Ψ 34'58 0° ₩ 5° ₩ 31'53 9° ₩ 10'17 29° ₩ 20'37 0° Ⅲ 17° Ⅲ 05'29 24° Ⅲ 45'01 24° Ⅲ 57'02 0° ♥	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30 1°55'33 19°44'11 -0.6m 1.44676 AU -2°11'37
superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	12078 Feb 13 19:09 12078 Feb 16 15:32 12078 Feb 16 17:30 12078 Feb 20 05:27 12078 Feb 24 04:31 12078 Feb 28 17:14 12078 Mar 03 01:27 12078 Mar 23 07:45 12078 Apr 03 23:24 12078 Apr 14 13:30 12078 Apr 15 21:32 12078 Apr 19 15:44 12078 Apr 24 12:27 12078 Apr 25 01:04 12078 Apr 24 23:00 12078 Apr 30 06:11 12078 May 04 13:05 12078 May 12 20:52 12078 May 19 07:07 12078 May 29 07:06 12078 Jun 12 01:09 12078 Jun 17 20:57 12078 Jun 26 20:41 12078 Jun 27 03:21 12078 Jul 05 15:56 12078 Jul 08 18:16	0° X 5° X 16'02 5° X 25'02 11° X 42'43 18° X 36'18 26° X 11'34 0° Y 0° X 13° X 59'49 20° X 06'02 18° X 06'10 12° X 23'00 11° X 39'31 11° X 46'41 5° X 33'27 3° X 50'47 8° X 36'51 16° X 05'39 0° X 20° X 47'14 0° X 3° X 917'32 14° X 946'53 15° X 915'03 0° X 5° X 29'39	0°28'03 1.40879 AU 23°22'30 0.68706 AU 2°31'11 2°30'10 20°53'58 1.43126 AU -1°55'08	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	12079 Jan 30 16:05 12079 Feb 05 18:50 12079 Feb 06 11:14 12079 Feb 07 02:04 12079 Feb 10 05:54 12079 Feb 10 05:54 12079 Feb 23 23:29 12079 Mar 17 13:09 12079 Mar 19 20:32 12079 Mar 29 05:01 12079 Apr 02 18:53 12079 Apr 03 19:11 12079 Apr 06 02:04 12079 Apr 08 07:47 12079 Apr 09 08:39 12079 Apr 09 06:31 12079 Apr 14 18:03 12079 Apr 18 12:32 12079 Apr 25 21:13 12079 May 02 03:47 12079 May 02 03:47 12079 May 08 16:21 12079 May 08 16:21 12079 May 22 01:27 12079 May 22 11:41 12079 Jun 07 05:38 12079 Jun 07 05:38	18°≈33'20 18°≈47'15 0° ₩ 1° ₩ 14'03 2° ₩ 20'40 7° ₩ 53'57 0° Ψ 27° Ψ 51'06 0° ℧ 4° ℧ 39'20 3° ℧ 06'08 2° ℧ 19'02 30° ℟ Ψ 27° Ψ 11'38 25° Ψ 48'59 25° Ψ 56'05 19° Ψ 51'02 18° Ψ 29'32 22° Ψ 34'58 0° ℧ 5° ℧ 31'53 9° ℧ 10'17 29° ℧ 20'37 0° Ⅲ 17° Ⅲ 05'29 24° Ⅲ 45'01 24° Ⅲ 55'02	0°56'41 1.38660 AU 24°42'02 0.68209 AU 1°56'30 1°55'33 19°44'11 -0.6m 1.44676 AU -2°11'37

asc. node	12079 Jun 29 17:02	2° Ω 05'31			12080 Jun 23 07:35	0 \circ Ω	
evening max el	12079 Jul 08 22:21	14° Ω 46'14	18°09'13	retrograde	12080 Jun 27 22:56	1° Ω 52′29	
retrograde	12079 Jul 15 07:00	18° Ω 06'47		evening set	12080 Jul 01 03:06	0° Ω 55'35	
evening set	12079 Jul 18 02:55	17° Ω 24'45			12080 Jul 02 10:44	30° ₹ 5	
inferior conj	12079 Jul 24 05:44	12° Ω 06′22	2°21'49	inferior conj	12080 Jul 06 20:00	25° © 21'03	2°55'02
minimum elong	12079 Jul 24 08:19	11° Ω 59'18	2°20'29	minimum elong	12080 Jul 06 21:53	25° © 15'22	2°53'56
min. Earth dist.	12079 Jul 26 21:49	9° Ω 11'37	0.63232 AU	min. Earth dist.	12080 Jul 08 21:53	22° © 50'44	0.65192 AU
morning rise	12079 Jul 30 11:57	5° Ω 52'58		morning rise	12080 Jul 12 15:38	18° © 59'50	
desc. node	12079 Aug 02 02:59	4°Ω16'32		direct	12080 Jul 19 03:38	16°9518'38	
direct	12079 Aug 06 04:18	3°Ω21'25		desc. node	12080 Jul 19 00:18	16°9518'42	
morning max el	12079 Aug 00 04:18 12079 Aug 20 03:26	$11^{\circ}\Omega 23'18$	27040142	morning max el	12080 Aug 01 14:16	24°S13'50	27907116
morning max er	_		21 40 43	morning max er	=		27 07 10
	12079 Sep 03 20:32	0° m)			12080 Aug 06 18:47	0° N	
_	12079 Sep 21 09:06	0∘ ⊽			12080 Aug 27 06:16	0° m/	
morning set	12079 Sep 23 17:27	4° ჲ 38'48		morning set	12080 Sep 06 04:01	17° m 58'02	
asc. node	12079 Sep 25 18:08	8° ≏ 46'43		max. Earth dist.	12080 Sep 10 12:58	26° Mp 38'54	1.33555 AU
max. Earth dist.	12079 Sep 28 19:13	15° ≏ 10'12	1.32291 AU	asc. node	12080 Sep 11 14:47	28° m 51'00	
					12080 Sep 12 04:09	0∘ ত	
superior conj	12079 Oct 01 11:53	20° ≏ 58'34	0°53'24				
minimum elong	12079 Oct 01 09:45	20° ♀ 47'00	0°53'15	superior conj	12080 Sep 14 14:31	5° ≏ 05'17	0°28'37
•	12079 Oct 05 14:57	0° M .		minimum elong	12080 Sep 14 13:07	4° ₽ 57'53	0°28'20
evening rise	12079 Oct 08 08:37	5°M56'05		evening rise	12080 Sep 21 19:20	20° ≏ 26'50	
8	12079 Oct 20 22:30	0° ∡ 7		<i>3</i> 21	12080 Sep 26 10:46	0°M₊	
desc. node	12079 Oct 28 23:42	11° × 708'22		evening max el	12080 Oct 12 11:24	24°M22'12	21°54'01
evening max el	12079 Oct 20 23:42 12079 Oct 31 22:50	14° × 16'36	23°34'10	desc. node	12080 Oct 12 11:24 12080 Oct 14 21:04	26°M30'56	21 5401
retrograde	12079 Oct 31 22:30 12079 Nov 14 09:45	20° × 59'03	23 34 10	desc. Hode	12080 Oct 14 21:04 12080 Oct 21 02:29	20 11 6 30 30	
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evening set	12079 Nov 18 22:04	20° ₹ 14'45	0.55440.477	retrograde	12080 Oct 25 00:29	0° ₹ 36'24	
min. Earth dist.	12079 Nov 25 08:58	17° ⋌ 10'14	0.55440 AU	evening set	12080 Oct 28 02:17	0° √ 15'11	
inferior conj	12079 Nov 27 04:15	16° ₹ 06'29			12080 Oct 29 01:51	30°RM	
minimum elong	12079 Nov 27 06:08	16° ₹ 03'43	5°49'44	inferior conj	12080 Nov 05 23:02	26° ™ 18'48	
morning rise	12079 Dec 05 15:59	12° ∡ 13'32		minimum elong	12080 Nov 05 16:23	26°M28'06	5°32'38
direct	12079 Dec 08 11:08	11° ∡ 54′21		min. Earth dist.	12080 Nov 05 15:34	26°M29'15	0.54624 AU
morning max el	12079 Dec 19 04:11	17° ∡ ¹00'00	20°20'20	morning rise	12080 Nov 14 07:44	22°M31'36	
asc. node	12079 Dec 22 18:40	20° ∡ 59′07		direct	12080 Nov 17 21:08	22°M03'48	
	12079 Dec 28 20:06	0°ರ		morning max el	12080 Nov 30 02:51	27°M53'12	21°53'10
morning set	12080 Jan 06 15:57	16° る 53'15			12080 Dec 02 04:44	0° ∡ ¹	
	12080 Jan 13 00:53	0° ≈		asc. node	12080 Dec 08 15:42	8° ∡ ¹28'54	
					12080 Dec 20 07:10	0° ろ	
superior conj	12080 Jan 14 05:57	2° ≈ 27'30	1°17'23	morning set	12080 Dec 21 02:04	1° る 38'55	
minimum elong	12080 Jan 14 08:36	2° ≈ 40'51	1°17'50	Č			
max. Earth dist.	12080 Jan 19 18:43		1.36482 AU	superior conj	12080 Dec 28 05:14	16° පි 46'14	1°31'00
evening rise	12080 Jan 23 14:01	20°≈26'12	1.50 102 110	minimum elong	12080 Dec 28 07:00	16° る 55'31	1°31'41
desc. node	12080 Jan 24 22:48	22°≈54'17		max. Earth dist.	12080 Dec 28 07:00	25° る 11'59	1.34560 AU
desc. flode	12080 Jan 29 00:14	0°)		max. Lartii dist.	12081 Jan 03 17:02	0°≈	1.54500 AC
	12080 Jan 29 00:14 12080 Feb 17 23:19	0°Υ				0 ≈ 3°≈38'08	
			25952142	evening rise	12081 Jan 05 14:01	3 ≈38 08 13°≈18'29	
evening max el	12080 Feb 28 02:36	11° Υ 41'47	25-55.45	desc. node	12081 Jan 10 19:36		
retrograde	12080 Mar 11 15:55	18° Y ′53′23			12081 Jan 20 21:06	0° ∀	
evening set	12080 Mar 17 17:44	16° Y ′24'16		evening max el	12081 Feb 09 16:07	25°) €24'33	26°50'29
asc. node	12080 Mar 19 16:16	14° Ƴ 33'15			12081 Feb 15 05:11	0° Υ	
min. Earth dist.	12080 Mar 21 23:35	11° Y ′52'03	0.67290 AU	retrograde	12081 Feb 22 21:25	2° Y 48'13	
inferior conj	12080 Mar 23 12:39	9° Ƴ 55'34	1°11'54	evening set	12081 Mar 01 09:29	0° Υ 15'13	
minimum elong	12080 Mar 23 11:01	10° Ƴ 00'43	1°11'14		12081 Mar 01 17:00	30° Ŗ ₩	
morning rise	12080 Mar 29 04:56	4° Ƴ 07'12		min. Earth dist.	12081 Mar 05 09:43	26°) 16′54	0.65967 AU
direct	12080 Apr 01 11:58	3° Y 05′19		asc. node	12081 Mar 06 13:39	24° ¥ 55'55	
morning max el	12080 Apr 08 05:12	6° Ƴ 43'03	18°49'40	inferior conj	12081 Mar 07 10:51	23°) €53'47	0°17'06
desc. node	12080 Apr 22 00:35	25° Y ′24'16		minimum elong	12081 Mar 07 10:23	23° ¥ 55′09	0°17'05
greatest brilliancy	12080 Apr 22 10:31	26° Ƴ '02'17	-0.8m	morning rise	12081 Mar 13 12:33	18° ¥ 16'49	
,	12080 Apr 25 00:15	0°B		direct	12081 Mar 16 09:24	17°) €31'38	
morning set	12080 Apr 30 10:26	8° 8 25'33		morning max el	12081 Mar 22 19:06	20°) 54'29	18°11'40
morning sec	12080 May 14 06:33	0° Ц		morning max or	12081 Mar 29 22:53	0°Υ	10 11 10
max. Earth dist.	12080 May 14 00:33 12080 May 15 04:06	1° Ⅱ 24'15	1.45568 AU	desc. node	12081 Mai 29 22:33 12081 Apr 08 21:14	15° Υ 35'19	
man. Latui Uist.	12000 May 13 04.00	1 Щ24 13	1.43300 AU		•	13° γ 35°19 18° γ 47'57	
	12000 14 16 10 44	2017 5 512.0	2000155	morning set	12081 Apr 10 21:05		
superior conj	12080 May 16 18:44	3° Ⅱ 55'38			12081 Apr 17 20:52	0°8	
minimum elong	12080 May 16 14:14	3° Ⅱ 37'59	2~10/30		10001	1001 2	10.40:
evening rise	12080 May 31 23:57	28° Ⅱ 07'17		superior conj	12081 Apr 26 02:05	12° 8 58'19	
	12080 Jun 02 03:55	0 \circ		minimum elong	12081 Apr 25 16:51	12° 8 22'08	
asc. node	12080 Jun 15 14:01	21° © 02'43		max. Earth dist.	12081 Apr 27 23:39		1.45723 AU
evening max el	12080 Jun 21 11:10	28° © 21'43	18°32'35		12081 May 07 00:10	Π °0	

avanina risa	12001 May 12 02:41	99Т00!19			12002 Apr. 10 12:01	0°B	
evening rise	12081 May 12 03:41	8° П 00'18 25° П 58'17	0.7	may Earth dist	12082 Apr 10 12:01	0° 8 27'19	1 45141 ATT
greatest brilliancy	12081 May 23 19:07	25°Щ58°17 0°©	-0.7m	max. Earth dist.	12082 Apr 10 18:56	_	1.45141 AU
1	12081 May 26 11:59			evening rise	12082 Apr 21 16:42	17° 8 23'54	
asc. node	12081 Jun 02 11:05	9°526'38	10012111	1 . 2112	12082 Apr 29 23:59	0°II	0.6
evening max el	12081 Jun 04 20:18	12°504'19	19°13'11	greatest brilliancy	12082 May 06 17:08	9°II56'00	-0.6m
retrograde	12081 Jun 11 19:32	15°957'46		evening max el	12082 May 19 00:09	25° Ⅱ 49'45	20°09'20
evening set	12081 Jun 15 08:25	14° © 45'01		asc. node	12082 May 20 08:14	27° Ⅱ 06'02	
inferior conj	12081 Jun 20 18:55	8° © 55'55	3°11'36		12082 May 24 23:40	0° ©	
minimum elong	12081 Jun 20 19:44	8° 9 53'16	3°10'42	retrograde	12082 May 26 18:05	0°916'32	
min. Earth dist.	12081 Jun 22 06:03	7° © 02'02	0.66774 AU		12082 May 28 11:05	30°Ŗ Ⅱ	
morning rise	12081 Jun 26 06:29	2° © 33'08		evening set	12082 May 30 16:26	28° Ⅱ 47'25	
	12081 Jul 01 01:05	30° Ŗ Ⅱ		inferior conj	12082 Jun 04 23:33		3°14'30
direct	12081 Jul 02 10:03	29° Ⅱ 52'29		minimum elong	12082 Jun 04 23:18	22° Ⅱ 46′06	3°13'41
	12081 Jul 03 20:01	0 \circ \odot		min. Earth dist.	12082 Jun 05 20:23	21° Ⅲ 34′27	0.67920 AU
desc. node	12081 Jul 05 21:32	0°935'42		morning rise	12082 Jun 10 05:51	16° Ⅱ 24'45	
morning max el	12081 Jul 15 01:09	7° ഇ 25'50	26°00'01	direct	12082 Jun 15 22:09	13° Ⅲ 53'42	
	12081 Aug 01 14:38	$0^{\circ}\Omega$		desc. node	12082 Jun 22 18:40	16° Ⅱ 40′28	
	12081 Aug 19 16:53	o∘ m y		morning max el	12082 Jun 27 11:00	20° Ⅱ 48'53	24°36'32
morning set	12081 Aug 20 01:25	0° m 39'14			12082 Jul 05 08:46	0°ಲ	
max. Earth dist.	12081 Aug 23 20:12	7° m 47'04	1.35308 AU		12082 Jul 25 19:33	$0^{\circ}\Omega$	
	Č	•		morning set	12082 Aug 02 05:06	12° Ω 30′08	
superior conj	12081 Aug 29 09:29	18° m) 47'10	-0°00'48	max. Earth dist.	12082 Aug 05 19:14	18° Ω 54'20	1.37455 AU
minimum elong	12081 Aug 29 09:33	18° m) 47'30	0°01'02	man. Darut Gigt.	12082 Aug 11 17:36	0°m)	1.57 1.00 110
behind sun begin	12081 Aug 29 03:29	18° Mp 16'44	0 01 02		12002 Hug 11 17.50	Ų ų	
behind sun end	12081 Aug 29 15:36	19° m)18'19		superior conj	12082 Aug 12 17:31	1° m 55'29	-0°33'41
asc. node	12081 Aug 29 11:27	18° Mp 57'10		minimum elong	12082 Aug 12 17:31 12082 Aug 12 19:46	2° m) 06'24	
asc. node	- C	0∘ ⊽		· ·	•	9° Mg 00'47	0 33 44
	12081 Sep 03 19:54	0 <u>⊶</u> 4° ≏ 47'44		asc. node	12082 Aug 16 08:07		
evening rise	12081 Sep 06 03:22			evening rise	12082 Aug 21 06:17	18° m 51'34	
	12081 Sep 20 05:27	0°M,			12082 Aug 26 23:51	0∘ ⊽	
evening max el	12081 Sep 24 11:01	4°M58'06	20°26'52	evening max el	12082 Sep 07 00:39		19°19'47
desc. node	12081 Oct 01 18:29	9° ™ 50'21		retrograde	12082 Sep 16 09:19	21° ≏ 00'01	
retrograde	12081 Oct 05 12:10	10° M 27′18		evening set	12082 Sep 18 05:39	20° ≏ 49'54	
evening set	12081 Oct 07 14:49	10° M 16′11		desc. node	12082 Sep 18 15:56	20° ≏ 44'46	
inferior conj	12081 Oct 16 15:49	6° ™ 20'05		inferior conj	12082 Sep 26 20:30	16° ≏ 41'18	
minimum elong	12081 Oct 16 05:48	6° ™ 34'40	4°17'25	minimum elong	12082 Sep 26 13:48	16° ≏ 52'17	2°30'35
min. Earth dist.	12081 Oct 17 23:31	5° ™ 33'52	0.54734 AU	min. Earth dist.	12082 Sep 29 10:37	14° ≙ 59'44	0.55764 AU
morning rise	12081 Oct 24 20:14	2°M18'24		morning rise	12082 Oct 04 19:27	12° ≙ 08′16	
direct	12081 Oct 29 06:14	1°M36'21		direct	12082 Oct 10 01:29	11° ≏ 05'33	
morning max el	12081 Nov 11 15:34	8° ጤ 07'31	23°39'41	morning max el	12082 Oct 24 02:14	18° ≏ 10'46	25°24'59
asc. node	12081 Nov 25 12:39	26° ™ 47′20			12082 Nov 02 21:59	0° M	
	12081 Nov 27 08:07	0° ∡ ¹		asc. node	12082 Nov 12 09:31	15° M 41'48	
morning set	12081 Dec 05 13:47	16° ∡ ¹25'47			12082 Nov 19 12:29	0° ∡ ¹	
-	12081 Dec 11 19:58	0°ප		morning set	12082 Nov 20 01:21	1° ҂ 08'44	
superior conj	12081 Dec 12 10:53	1°る20'49	1°37'49	superior conj	12082 Nov 26 20:27	16° ₹ '03'48	1°38'21
minimum elong	12081 Dec 12 11:31	1° る 24'19	1°38'38	minimum elong	12082 Nov 26 19:58	16° ∡ '01'12	1°39'08
max. Earth dist.	12081 Dec 15 03:33	7° る 07'46	1.33042 AU	max. Earth dist.	12082 Nov 28 07:09	19° х 14'56	1.31984 AU
evening rise	12081 Dec 20 02:22	17° る 21'05			12082 Dec 03 07:14	0°ਰ	
	12081 Dec 26 17:42	0° ≈		evening rise	12082 Dec 03 23:54	1° る 26'43	
desc. node	12081 Dec 28 16:28	3° ≈ 28'14		desc. node	12082 Dec 15 13:27	23°る17'10	
dese. Hode	12082 Jan 15 06:45	0° ∀		dese. Hode	12082 Dec 19 15:56	0°≈	
evening max el	12082 Jan 23 05:04	8° ¥ 49'48	27°25'03	evening max el	12082 Dec 15 15:35	21° ≈ 45'20	27°30'44
retrograde	12082 Feb 05 20:31	16° ¥ 15′02	27 23 03	retrograde	12083 Jan 19 12:08	29°≈04'53	27 30 44
evening set	12082 Feb 12 16:14	13°) 44'47		evening set	12083 Jan 26 11:15	26°≈45'05	
Č		13 X 44 4 7 10° ¥ 17'56	0.64200 ATT	min. Earth dist.			0.62221 ATT
min. Earth dist.	12082 Feb 16 12:10		0.64289 AU		12083 Jan 30 05:03	23°≈45'19	0.62331 AU
inferior conj	12082 Feb 19 00:45	7°) (37'35		inferior conj	12083 Feb 02 03:21	20°≈59'32	
minimum elong	12082 Feb 19 02:13	7°) €33'40	0°46'49	minimum elong	12083 Feb 02 07:28	20°≈49'45	1°59'28
asc. node	12082 Feb 21 11:02	5°) €09'40		asc. node	12083 Feb 08 08:23	16°≈14'50	
morning rise	12082 Feb 25 14:11	2°) 14′24		morning rise	12083 Feb 09 06:16	15°≈53'07	
direct	12082 Feb 28 02:28	1°) 42′18		direct	12083 Feb 11 12:06	15° ≈ 30'19	
morning max el	12082 Mar 06 12:16	5° 米 01′26	17°50'44	morning max el	12083 Feb 18 05:40	18° ≈ 55'50	17°47'28
	12082 Mar 23 04:14	0° Y			12083 Feb 26 08:11	0° ∀	
morning set	12082 Mar 23 12:14	0° Ƴ 33'42		morning set	12083 Mar 06 02:45	13°) €26′23	
desc. node	12082 Mar 26 17:50	5° Y 59'33		desc. node	12083 Mar 13 14:25	26°) 32′40	
					12083 Mar 15 14:52	0° Y	
superior conj	12082 Apr 05 21:22	22° Y ′39'08	-1°12'01				
minimum elong	12082 Apr 05 13:50	22° Y 08'50	1°11'18	superior conj	12083 Mar 17 15:31	3° Y 25'39	-0°30'46

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	12005 7 1 00 02 05	200 20150	0044104		10006 1 00 00 00	110 45101	100 (11 7
minimum elong	12085 Feb 09 03:25	28°≈22'50	0°41'04	superior conj	12086 Jan 23 07:36	11°≈45'01	1°06'15
	12085 Feb 10 00:18	0°) {		minimum elong	12086 Jan 23 10:30	11°≈59'14	1°06'32
desc. node	12085 Feb 14 07:37	7°) (49'26	1 20045 ATT	max. Earth dist.	12086 Jan 29 14:33	23°≈45'06	1.37710 AU
max. Earth dist.	12085 Feb 16 08:36	11°) (25'12 18°) (24'18	1.39945 AU	desc. node	12086 Feb 01 04:19	28°≈25'52 0°¥28'42	
evening rise	12085 Feb 20 10:36 12085 Feb 27 14:11	18 π 24 18		evening rise	12086 Feb 02 07:56	0 H 2842 0°H	
	12085 Feb 27 14.11 12085 Mar 20 19:18	0°8			12086 Feb 02 01:26 12086 Feb 20 20:17	0 Υ 0° Υ	
evening max el	12085 Mar 27 05:58	7° 8 13'09	23°56'41	evening max el	12086 Mar 09 19:27	21° Υ 04'39	25°13'57
retrograde	12085 Mai 27 03:38 12085 Apr 07 07:33	13° 8 43'45	23 30 41	retrograde	12086 Mar 21 21:25	28° Y 04'51	23 13 37
asc. node	12085 Apr 07 07:35	13° 8 10'28		evening set	12086 Mar 27 16:28	25° Υ 40'27	
evening set	12085 Apr 10 00:00	11° 8 29'53		asc. node	12086 Mar 27 21:28	25° Υ 29'42	
min. Earth dist.	12085 Apr 17 07:49	6° 8 01'58	0.68550 AU	min. Earth dist.	12086 Apr 01 02:04	20° Υ 47'52	0.67863 AU
inferior conj	12085 Apr 18 01:45	5° 8 00'59	2°17'40	inferior conj	12086 Apr 02 08:06	19° Υ 10'04	1°38'50
minimum elong	12085 Apr 17 23:35	5° 8 08'19		minimum elong	12086 Apr 02 06:06	19° Υ 16'35	1°37'58
minimum clong	12085 Apr 17 23:35 12085 Apr 22 04:10	30°RY	2 1037	morning rise	12086 Apr 07 20:05	13°Υ15'46	1 37 36
morning rise	12085 Apr 23 08:22	28° Υ ′58'13		direct	12086 Apr 11 09:30	12° Υ '02'56	
direct	12085 Apr 27 09:47	27° Y °24'54		morning max el	12086 Apr 18 10:46	15° Υ 55'23	19°18'57
	12085 May 03 05:16	0°8		morning man er	12086 Apr 29 09:21	0°8	19 1007
morning max el	12085 May 05 07:04	1° 8 52'30	20°22'28	desc. node	12086 Apr 30 06:07	1° 8 16'05	
desc. node	12085 May 13 09:22	11° 8 37'34	20 22 20	greatest brilliancy	12086 May 01 05:47	2° 8 43'32	-0.7m
dese. node	12085 May 26 02:31	0°Ⅱ		morning set	12086 May 12 20:57	20° 8 24'51	0.7111
morning set	12085 Jun 02 19:45	11° II 45'56		morning sev	12086 May 19 01:37	0°II	
max. Earth dist.	12085 Jun 12 03:19	26° I I24'56	1.43855 AU	max. Earth dist.	12086 May 25 17:55		1.45141 AU
max. Earth dist.	12085 Jun 14 08:42	0°95	1.15055 110	max. Earth dist.	12000 May 25 17.55	10 112030	1.131111110
	12000 0411 11 00.12	• •		superior conj	12086 May 29 07:08	16° Ⅱ 03'27	-2°13'24
superior conj	12085 Jun 18 07:34	6°927'54	-2°03'59	minimum elong	12086 May 29 07:07	16° I 03'25	
minimum elong	12085 Jun 18 13:18	6°951'35		g	12086 Jun 06 23:02	0°9	
evening rise	12085 Jun 30 22:45	27° 9 58'13	2 0.30	evening rise	12086 Jun 12 15:45	9° 5 22'04	
e vennig rise	12085 Jul 02 02:44	0° Ω		asc. node	12086 Jun 23 19:26	27° © 32'42	
asc. node	12085 Jul 06 22:29	8°Ω20'04			12086 Jun 25 10:27	0°Ω	
evening max el	12085 Jul 18 01:02	24° Ω 22'26	18°03'56	evening max el	12086 Jul 01 15:03	7° Ω 51'59	18°17'03
retrograde	12085 Jul 24 12:18	27° Ω 43'33		retrograde	12086 Jul 07 23:55	11° Ω 15'02	
evening set	12085 Jul 27 03:24	27° Ω 09'28		evening set	12086 Jul 10 23:19	10° Ω 26'54	
inferior conj	12085 Aug 02 13:43	22° Ω 01'31	1°53'42	inferior conj	12086 Jul 16 21:30		2°38'06
minimum elong	12085 Aug 02 16:19	21° Ω 54'51	1°52'20	minimum elong	12086 Jul 16 23:51	4°Ω55'00	2°36'52
min. Earth dist.	12085 Aug 05 13:00	18° Ω 59'55	0.61972 AU	min. Earth dist.	12086 Jul 19 07:50	2° Ω 15'22	0.64110 AU
morning rise	12085 Aug 09 02:51	15° Q 56′03			12086 Jul 21 12:11	30° ℝ	
desc. node	12085 Aug 09 08:10	15° Ω 46'49		morning rise	12086 Jul 22 22:57	28°9544'14	
direct	12085 Aug 15 19:08	13° Ω 34'14		desc. node	12086 Jul 27 05:30	26°526'15	
morning max el	12085 Aug 29 23:04	21° Ω 35'45	27°57'37	direct	12086 Jul 29 14:14	26°506'59	
•	12085 Sep 06 07:08	0° m)			12086 Aug 07 17:50	$0^{\circ}\Omega$	
	12085 Sep 25 11:42	0∘ ⊽		morning max el	12086 Aug 12 08:37	4° Ω 07'47	27°34'40
morning set	12085 Oct 02 17:46	14° ≏ 06'07		•	12086 Aug 31 20:30	0° m)	
asc. node	12085 Oct 02 23:41	14° ≙ 36'30		morning set	12086 Sep 16 10:15	27° m/42'53	
max. Earth dist.	12085 Oct 08 05:39	25° ≏ 44'02	1.31792 AU		12086 Sep 17 13:45	0∘ ⊽	
				asc. node	12086 Sep 19 20:22	4° ≙ 38'05	
superior conj	12085 Oct 10 05:02	0°ML03'17	1°05'22	max. Earth dist.	12086 Sep 21 04:29	7° ≙ 25'01	1.32767 AU
minimum elong	12085 Oct 10 02:47	29° ჲ 50'53	1°05'21				
	12085 Oct 10 04:27	0° M		superior conj	12086 Sep 24 10:54	14° ≏ 21'22	0°43'30
evening rise	12085 Oct 16 23:12	14°M53'17		minimum elong	12086 Sep 24 09:00	14° £ 11′08	0°43'16
	12085 Oct 24 09:29	0° ∡ ¹		evening rise	12086 Oct 01 10:30	29° £ 26'59	
desc. node	12085 Nov 05 04:54	18° ∡ 753'31			12086 Oct 01 16:41	0° M .	
evening max el	12085 Nov 11 07:28	25° ∡ ¹47'42	24°32'00		12086 Oct 18 14:21	0° ∡ ¹	
	12085 Nov 16 14:57	0°ප		desc. node	12086 Oct 23 02:14	5° ∡ 13'41	
retrograde	12085 Nov 25 01:19	2° る 40'05		evening max el	12086 Oct 23 17:52	5° ∡ ¹52'33	22°50'47
evening set	12085 Nov 30 08:00	1° る 38'24		retrograde	12086 Nov 05 21:24	12° ∡ ¹24'29	
	12085 Dec 03 19:04	30°₹ ৴		evening set	12086 Nov 09 18:30	11° ₹ ′51'44	
min. Earth dist.	12085 Dec 05 18:59		0.56251 AU	min. Earth dist.	12086 Nov 17 02:34	8° ∡ ³31′29	0.54991 AU
inferior conj	12085 Dec 08 05:23	27° ∡ 17'48		inferior conj	12086 Nov 18 07:29	7° ∡ ¹50'13	
minimum elong	12085 Dec 08 11:15	27° ∡ *08'33	5°33'18	minimum elong	12086 Nov 18 05:38	7° ∡ ¹52'52	5°50'09
morning rise	12085 Dec 16 16:37	23° ∡ 14'58		morning rise	12086 Nov 26 18:15	4° ∡ 01′23	
direct	12085 Dec 19 03:26	22° ∡ 58'47		direct	12086 Nov 29 20:45	3° ∡ ³39′00	
morning max el	12085 Dec 28 23:32	27° ∡ ¹41'38	19°36'37	morning max el	12086 Dec 11 05:55	9° ∡ ¹03'33	20°57'27
asc. node	12085 Dec 30 00:00	28° ∡ ¹43'22		asc. node	12086 Dec 16 21:05	15° ∡ ³38'15	
	12085 Dec 31 03:37	0°ಕ			12086 Dec 25 11:43	0°₹	
morning set	12086 Jan 15 08:48	25° る 47'00		morning set	12086 Dec 30 17:04	10° පි 28'53	
	12086 Jan 17 10:54	0° ≈					

	12005 1 05 01 10	250710152	100 4100		1000775 00 04 00	10071601	102414
superior conj	12087 Jan 07 01:49	25° る 49'52	1°24'02	superior conj	12087 Dec 22 04:08		1°34'41
minimum elong	12087 Jan 07 04:09	26° ⋜ 01'49	1°24'35	minimum elong	12087 Dec 22 05:26	10° る 23'18	1°35'27
	12087 Jan 09 02:54	0° ≈		max. Earth dist.	12087 Dec 25 15:44	17° る 35'39	1.33861 AU
max. Earth dist.	12087 Jan 11 23:38	5°≈41'55	1.35624 AU	evening rise	12087 Dec 30 04:54	26° る 44'52	
evening rise	12087 Jan 15 23:14	13° ≈ 18'33		Č	12087 Dec 31 21:19	0° ≈	
desc. node	12087 Jan 19 01:04	18°≈55'42		desc. node	12088 Jan 05 21:54	9°≈14'39	
desc. node				desc. Hode		0° ₩	
	12087 Jan 25 11:59	0° ∀			12088 Jan 18 20:06		
	12087 Feb 15 18:41	0°Υ		evening max el	12088 Feb 02 22:45	18°) € 30'43	27°08'22
evening max el	12087 Feb 20 09:09	4° Ƴ 53'24	26°20'19	retrograde	12088 Feb 16 08:41	25° ¥ 55'19	
retrograde	12087 Mar 05 06:03	12° Ƴ 11'07		evening set	12088 Feb 23 00:33	23°) 22′40	
evening set	12087 Mar 11 12:22	9° Ƴ 40′00		min. Earth dist.	12088 Feb 26 22:49	19° ¥ 38'16	0.65295 AU
asc. node	12087 Mar 14 18:52	6° Y 23'48		inferior conj	12088 Feb 29 04:55	17°) €06'43	-0°09'12
min. Earth dist.	12087 Mar 15 15:48	5° Y 22'11	0.66768 AU	minimum elong	12088 Feb 29 05:11	17°) €06'00	0°08'49
inferior conj	12087 Mar 17 09:55	3° Y 13'41	0°49'55	transit middle	12088 Feb 29 05:11	17° ₩ 06'00	0°08'49
-							0 0049
minimum elong	12087 Mar 17 08:41	3° Y 17′27	0°49'30	transit begin	12088 Feb 29 02:40	17° ¥ 13'04	
	12087 Mar 20 05:05	30° ₹		transit end	12088 Feb 29 07:42	16° ¥ 58'57	
morning rise	12087 Mar 23 05:52	27° ∺ 29'38		asc. node	12088 Feb 29 16:13	16°) 35′07	
direct	12087 Mar 26 08:28	26° ∺ 35′07		morning rise	12088 Mar 06 11:20	11° ∺ 35′18	
	12087 Apr 01 19:23	$0^{\circ}\mathbf{\Upsilon}$		direct	12088 Mar 09 04:27	10° ¥ 55'59	
morning max el	12087 Apr 01 21:27	0° ℃ 05'01	18°31'26	morning max el	12088 Mar 15 13:05	14°) 15′36	18°00'44
desc. node	12087 Apr 17 02:48	21° Υ 17'02			12088 Mar 26 21:14	0°Υ	
	•	29° Υ 59'49				10° Y ′59′22	
morning set	12087 Apr 22 15:44			morning set	12088 Apr 02 14:53		
	12087 Apr 22 15:46	9° 8		desc. node	12088 Apr 02 23:26	11° Y 34'24	
					12088 Apr 14 08:51	$_{0\circ}$ 8	
superior conj	12087 May 08 15:39	25° 8 04'56	-2°02'59				
minimum elong	12087 May 08 08:22	24° 8 36'31	2°03'13	superior conj	12088 Apr 17 02:05	4° 8 18'36	-1°34'04
max. Earth dist.	12087 May 08 12:51	24° 8 53'59	1.45730 AU	minimum elong	12088 Apr 16 16:55	3° 8 42'20	1°33'31
	12087 May 11 19:08	0°II		max. Earth dist.	12088 Apr 20 09:13	9° 8 29'54	1.45567 AU
evening rise	12087 May 24 08:25	19° II 45'17		evening rise	12088 May 03 04:25	29° 8 22'03	1.13307 110
evening rise	•			evening rise	•	0°Ⅱ	
	12087 May 30 19:43	0°©			12088 May 03 14:16		
greatest brilliancy	12087 Jun 02 00:26	3° 5 27'00	-0.8m	greatest brilliancy	12088 May 16 16:28	19° Ⅱ 53'40	-0.7m
asc. node	12087 Jun 10 16:28	16°©16'54			12088 May 23 21:18	0	
evening max el	12087 Jun 15 02:39	21° © 31'28	18°47'49	asc. node	12088 May 27 13:34	4° © 23'22	
retrograde	12087 Jun 21 18:07	25° © 09'59		evening max el	12088 May 28 09:40	5° © 15'37	19°35'10
evening set	12087 Jun 25 02:02	24°506'16		retrograde	12088 Jun 04 15:54	9° © 21'56	
inferior conj	12087 Jun 30 15:49	18°525'23	3°03'51	evening set	12088 Jun 08 08:47	8°902'02	
·	12087 Jun 30 17:16	18°920'52	3°02'51	-		2°906'57	3°14'21
minimum elong				inferior conj	12088 Jun 13 17:29		
min. Earth dist.	12087 Jul 02 11:23	16° © 09'39	0.65926 AU	minimum elong	12088 Jun 13 17:50	2° © 05'47	3°13'29
morning rise	12087 Jul 06 07:44	12° © 03'12		min. Earth dist.	12088 Jun 14 22:20	0° © 31'12	0.67323 AU
direct	12087 Jul 12 16:40	9° 5 21'06			12088 Jun 15 07:53	30°RⅡ	
desc. node	12087 Jul 14 02:47	9° 5 28'17		morning rise	12088 Jun 19 02:29	25° Ⅱ 44'50	
morning max el	12087 Jul 25 19:30	17° © 07'59	26°41'11	direct	12088 Jun 25 01:26	23° Ⅱ 07'39	
Č	12087 Aug 05 12:47	$0^{\circ}\Omega$		desc. node	12088 Jun 29 23:58	24° Ⅱ 34'33	
	12087 Aug 24 18:15	0°m)			12088 Jul 06 19:43	0ංම	
morning set	12087 Aug 30 15:38	10° m) 46'34		morning max el	12088 Jul 07 06:07	0°926'04	25025154
•	=	-	1 2 42 52 4 1 1	morning max er			23 23 34
max. Earth dist.	12087 Sep 03 17:48	18° m) 43'34	1.34252 AU		12088 Jul 29 11:05	0 \circ Ω	
asc. node	12087 Sep 06 17:03	24° Mp 43'30		morning set	12088 Aug 12 06:05	23° Ω 07'39	
					12088 Aug 15 23:36	0° m)	
superior conj	12087 Sep 08 10:37	28° Mp $18'15$	0°16'40	max. Earth dist.	12088 Aug 15 21:25	29° Ω 49'45	1.36191 AU
minimum elong	12087 Sep 08 09:45	28° m) 13'42	0°16'22				
Č	12087 Sep 09 06:08	0∘ <u>⊽</u>		superior conj	12088 Aug 22 01:22	11° Mp 46'40	-0°14'26
evening rise	12087 Sep 15 20:19	13° £ 54'12		minimum elong	12088 Aug 22 02:17	11° m) 51'12	
evening rise				_	•		0 1430
	12087 Sep 24 00:05	0°M		behind sun begin	12088 Aug 21 23:34	11° m/ 37'40	
evening max el	12087 Oct 05 10:21	16°ML07'27	21°14'42	behind sun end	12088 Aug 22 04:59	12° Mp 04'44	
desc. node	12087 Oct 09 23:36	19° M 47'20		asc. node	12088 Aug 23 13:43	14° M) 48'55	
retrograde	12087 Oct 17 09:01	22°ML03'35		evening rise	12088 Aug 30 02:31	28° m 08'48	
evening set	12087 Oct 19 23:11	21°M47'58			12088 Aug 31 00:24	0∘ ⊽	
inferior conj	12087 Oct 28 23:34	17°ML53'26	-5°09'08	evening max el	12088 Sep 16 15:47	27° ≏ 01'18	19°55'34
minimum elong	12087 Oct 28 14:31	18°ML06'09	5°06'42	<i>3</i> 22	12088 Sep 20 06:24	0°M	
min. Earth dist.	12087 Oct 28 14:31 12087 Oct 29 09:06	17°ML40'01	0.54558 AU	desc. node	12088 Sep 25 21:02	2°ML06'23	
			0.54550 AU		•		
morning rise	12087 Nov 06 06:30	14°ML03'00		retrograde	12088 Sep 26 23:37	2°M09'48	
direct	12087 Nov 10 04:55	13°M29'45		evening set	12088 Sep 28 21:45	1°M59'54	
morning max el	12087 Nov 22 23:23	19°M36'55	22°37'36		12088 Oct 04 08:33	30° ₹ Ω	
	12087 Dec 01 11:55	0° ∡ ¹		inferior conj	12088 Oct 07 19:52	27° ≏ 59'23	-3°37'18
asc. node	12087 Dec 03 18:04	3° ∡ ³30′27		minimum elong	12088 Oct 07 10:42	28° ≙ 13'19	3°33'53
morning set	12087 Dec 15 04:06	25° х 16′04		min. Earth dist.	12088 Oct 09 17:54	26° ≏ 49'20	0.55064 AU
	12087 Dec 13 01:00	0°ਰ ਹ		morning rise	12088 Oct 15 22:17	23° Ω 46'02	
						UU2	

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transit end	12090 Aug 30 22:43	19° m 53'38		minimum elong	12091 Aug 13 04:39	2° m/01'50	1°16'54
desc. node	12090 Aug 30 15:55	20° m/07'35			12091 Aug 15 07:45	30°R Ω	
min. Earth dist.	12090 Sep 03 03:13	17° m) 17'59	0.58413 AU	min. Earth dist.	12091 Aug 16 07:05	29° Ω 06′12	0.60672 AU
morning rise	12090 Sep 07 04:27	14° m 34'55		desc. node	12091 Aug 17 13:19	28° Ω 00'30	
direct	12090 Sep 13 09:28	12° m 53'20		morning rise	12091 Aug 19 22:59	26° Ω 13'14	
morning max el	12090 Sep 27 17:34	20° m 34'16	27°17'45	direct	12091 Aug 26 13:07	24° Ω 04'43	
	12090 Oct 05 21:05	0∘ 亚			12091 Sep 07 16:24	0° m)	2525440
asc. node	12090 Oct 24 08:34	0°M₊42'22 0°M₊		morning max el	12091 Sep 09 19:42	2°₯00'19 0°₽	27°54'18
morning set	12090 Oct 24 00:02 12090 Oct 28 11:24	9° ጤ 11'17		asc. node	12091 Sep 30 06:23 12091 Oct 11 05:17	0 <u>≈</u> 20° <u>≈</u> 28'50	
morning set	12090 Oct 28 11.24	9 IIG11 17		morning set	12091 Oct 11 05:17 12091 Oct 12 15:26	20 = 28 30 23° £ 24'46	
superior conj	12090 Nov 04 10:03	24°M24'51	1°28'57	morning sec	12091 Oct 15 17:57	0°M	
minimum elong	12090 Nov 04 08:19	24°M15'13	1°29'26	max. Earth dist.	12091 Oct 18 13:52	6° M ₊11'04	1.31478 AU
max. Earth dist.	12090 Nov 04 05:50	24°ML01'20	1.31324 AU				
	12090 Nov 06 22:13	0° ∡ ¹		superior conj	12091 Oct 19 21:01	9°M03'26	1°15'34
evening rise	12090 Nov 11 04:19	9° ∡ 17'17		minimum elong	12091 Oct 19 18:49	8°M51'16	1°15'43
	12090 Nov 21 18:22	0°ಕ		evening rise	12091 Oct 26 14:01	23°M50'40	
desc. node	12090 Nov 26 12:55	7° る 56'52			12091 Oct 29 11:57	0° ∡ ¹	
evening max el	12090 Dec 10 21:21	26° る 12'31	26°40'29	desc. node	12091 Nov 13 10:08	26° メ 12'08 0° 云	
ratragrada	12090 Dec 15 12:40 12090 Dec 24 20:07	0° ≈ 3° ≈ 20'19		evening max el	12091 Nov 16 05:34 12091 Nov 22 15:19	0°る 7°る10'52	25025142
retrograde evening set	12090 Dec 24 20.07 12090 Dec 31 11:43	1°≈30'18		retrograde	12091 Nov 22 13:19 12091 Dec 06 11:56	14°る09'05	25 25 45
evening set	12090 Dec 31 11:43 12091 Jan 02 22:20	1 ~30 18 30°Rる		evening set	12091 Dec 10 11:30	12°る48'46	
min. Earth dist.	12091 Jan 04 11:24		0.59289 AU	min. Earth dist.	12091 Dec 17 03:30	10°る09'50	0.57261 AU
inferior conj	12091 Jan 07 15:28	26° පි 25'01	-3°54'36	inferior conj	12091 Dec 20 00:18	8° ප 13'41	-5°05'23
minimum elong	12091 Jan 07 23:21	26° පි 09'35	3°51'17	minimum elong	12091 Dec 20 08:18	8° ⋜ 00'06	5°02'49
morning rise	12091 Jan 15 13:51	21° る 47'49		morning rise	12091 Dec 28 08:39	3° ප 58'56	
direct	12091 Jan 17 15:43	21° る 32'14		direct	12091 Dec 30 14:18	3°₹43'58	
asc. node	12091 Jan 20 08:08	21° る 59'31		asc. node	12092 Jan 07 05:20	6° ප 51'48	
morning max el	12091 Jan 25 11:03	25° පි 23'58	18°15'25	morning max el	12092 Jan 08 14:05	8° る 05'15	19°00'28
	12091 Jan 29 08:03	0°≈ 20°≈ •24111			12092 Jan 22 17:02	0°≈ 4°≈ • 45!0€	
morning set	12091 Feb 10 04:11 12091 Feb 15 06:16	20° ≈ 24'11 0° ∀		morning set	12092 Jan 25 03:20	4° ≈ 45'06	
	120911 00 13 00.10	0 /		superior conj	12092 Feb 02 13:00	21° ≈ 12'32	0°52'37
superior conj	12091 Feb 19 14:44	8° ₩ 01'20	0°22'57	minimum elong	12092 Feb 02 15:51	21°≈26'05	0°52'47
minimum elong	12091 Feb 19 16:25	8° ∺ 08'59	0°23'04	Č	12092 Feb 07 05:47	0° ∀	
desc. node	12091 Feb 22 13:10	13° ¥ 16'43		desc. node	12092 Feb 09 09:50	3° ¥ 55′10	
max. Earth dist.	12091 Feb 27 04:54	21° ¥ 20'46	1.41202 AU	max. Earth dist.	12092 Feb 09 12:01	4°) €04'54	1.38995 AU
evening rise	12091 Mar 03 22:13	29° ∺ 12'01		evening rise	12092 Feb 13 07:49	10° ¥ 46′29	
	12091 Mar 04 10:01	0° Ƴ			12092 Feb 25 05:36	0° Ƴ	
	12091 Mar 24 09:44	0°8	22210124		12092 Mar 19 01:39	0°8	2.402.0122
evening max el	12091 Apr 06 22:47		23°10'24	evening max el	12092 Mar 19 12:38	0° 8 27'28	24°30'23
retrograde asc. node	12091 Apr 17 08:38 12091 Apr 18 05:18	22° 8 45'00 22° 8 41'31		retrograde asc. node	12092 Mar 31 00:50 12092 Apr 04 02:40	7° 8 11'20 5° 8 56'42	
evening set	12091 Apr 22 09:11	20° 8 38'44		evening set	12092 Apr 05 13:16	4° 8 52'31	
inferior conj	12091 Apr 27 18:03		2°35'34		12092 Apr 09 20:53	30°R Ƴ	
minimum elong	12091 Apr 27 16:01	14° 8 20'04	2°34'35	min. Earth dist.	12092 Apr 10 02:56	29° Ƴ 39'55	0.68317 AU
min. Earth dist.	12091 Apr 27 07:15	14° 8 50'21	0.68749 AU	inferior conj	12092 Apr 11 02:02	28° Y 22'39	2°02'23
morning rise	12091 May 02 22:46	8° 8 06'00		minimum elong	12092 Apr 10 23:53	28° Y 29'51	2°01'25
direct	12091 May 07 07:37	6° 8 20'07		morning rise	12092 Apr 16 10:38	22° Y ′23'30	
morning max el	12091 May 15 19:19	11° 8 12'56	21°05'29	direct	12092 Apr 20 06:54	20° ℃ 59'01	
desc. node	12091 May 21 14:49	17° 8 53'36		morning max el	12092 Apr 27 18:35	25° Y 09'37	19°53'37
morning sat	12091 May 30 11:28 12091 Jun 15 12:30	0°Ⅱ 24°Ⅱ09'04		daga nada	12092 May 02 01:29	0° と 7° と 15'03	
morning set	12091 Jun 19 05:17	24 п 0904 0° ©		desc. node	12092 May 07 11:36 12092 May 22 18:55	0°Ⅱ	
max. Earth dist.	12091 Jun 22 22:12	5° 9 58'27	1.42852 AU	morning set	12092 May 24 13:35	2° Ⅱ 43'39	
				max. Earth dist.	12092 Jun 04 09:55	19° Ⅱ 40'04	1.44484 AU
superior conj	12091 Jun 30 01:50	17° © 52'28	-1°51'26				
minimum elong	12091 Jun 30 08:39	18° © 21'26	1°51'39	superior conj	12092 Jun 09 14:18	27° Ⅱ 59'07	-2°10'10
	12091 Jul 07 01:31	$0^{\circ}\Omega$		minimum elong	12092 Jun 09 18:10	28° Ⅱ 14'47	2°10'53
evening rise	12091 Jul 11 17:31	8° Ω 19′09			12092 Jun 10 20:03	0ංම	
asc. node	12091 Jul 15 03:59	14° Ω 27'39		evening rise	12092 Jun 22 23:23	20°5516'38	
	12091 Jul 24 17:01	0° M)	10004142	1	12092 Jun 28 16:48	0°Ω	
evening max el	12091 Jul 28 04:06	4° Mp 05'43	18°04'43	asc. node	12092 Jul 01 00:54 12092 Jul 10 18:07	3° Ω 52'56 17° Ω 25'27	18007!17
retrograde evening set	12091 Aug 03 20:55	7° m ,31′39		evening max el	12072 Jul 10 18.0/	11064341	10 0/1/
o voming sot	12091 Aug 06 07:20	7° Mn 0.4'25		retrograde	12092 Inl 17 03:11	20° £0 45'51	
inferior conj	12091 Aug 06 07:29 12091 Aug 13 02:29	7° Mp 04'25 2° Mp 07'00	1°18'06	retrograde evening set	12092 Jul 17 03:11 12092 Jul 19 21:50	20° Ω 45'51 20° Ω 05'58	

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	12004 1 07 17 00	1.40€41120	10007104	1	12005 M 22 16 02	200 T 11120	
evening max el	12094 Jun 07 17:08	14°5541'39	19°06'04	asc. node	12095 May 22 16:02	29° Ⅱ 11'29	
retrograde	12094 Jun 14 14:07	18° © 30'46		_	12095 May 23 13:36	0° ©	
evening set	12094 Jun 18 01:41	17° © 20'25		retrograde	12095 May 29 12:30	2° 9 48'15	
inferior conj	12094 Jun 23 12:56	11° © 33'32	3°10'00	evening set	12095 Jun 02 09:26	1° 5 21'28	
minimum elong	12094 Jun 23 13:56	11° © 30'21	3°09'04		12095 Jun 03 22:13	30°RⅡ	
min. Earth dist.	12094 Jun 25 02:17	9° © 33'37	0.66572 AU	inferior conj	12095 Jun 07 16:53	25° Ⅲ 21′07	3°14'50
morning rise	12094 Jun 29 01:34	5°910'45		minimum elong	12095 Jun 07 16:47	25° Ⅲ 21′28	3°13'59
direct	12094 Jul 05 06:40	2° 5 29'19		min. Earth dist.	12095 Jun 08 15:46	24° Ⅱ 03'49	0.67786 AU
desc. node	12094 Jul 08 05:11	3° © 00'10		morning rise	12095 Jun 12 23:48	19° Ⅱ 00'14	
morning max el	12094 Jul 18 00:57	10°906'41	26°11'12	direct	12095 Jun 18 17:56	16° Ⅲ 27'22	
morning max cr	12094 Aug 02 18:27	0°Ω	20 11 12	desc. node	12095 Jun 25 02:18	18° I I50'39	
					12095 Jun 30 10:56	23° Ⅱ 28'41	24940122
	12094 Aug 21 03:17	0° Mp		morning max el			24°49'33
morning set	12094 Aug 23 00:37	3° Mp 28'23			12095 Jul 06 05:45	0°99	
max. Earth dist.	12094 Aug 26 20:58	10° m 47'04	1.35021 AU		12095 Jul 27 03:15	0 ° Ω	
asc. node	12094 Aug 31 19:19	20° Mp 36'26		morning set	12095 Aug 05 07:14	15° Ω 27'31	
				max. Earth dist.	12095 Aug 08 21:04	21° Ω 53'32	1.37125 AU
superior conj	12094 Sep 01 05:06	21°M) 26'26	0°03'56		12095 Aug 13 04:59	0° m y	
minimum elong	12094 Sep 01 04:54	21° m) 25'21	0°03'42				
behind sun begin	12094 Aug 31 23:02	20° m 55'25		superior conj	12095 Aug 15 15:01	4° Mp 40'26	-0°28'34
behind sun end	12094 Sep 01 10:45	21° m 55'20		minimum elong	12095 Aug 15 16:54	4° m 49'37	0°28'38
	12094 Sep 05 08:19	$0 \circ \overline{\mathbf{v}}$		asc. node	12095 Aug 18 16:00	10° m) 40'55	
evening rise	12094 Sep 08 20:41	7° ₽ 19'59		evening rise	12095 Aug 24 00:32	21° m) 26'59	
evening rise	12094 Sep 21 02:24	0°M		evening rise	12095 Aug 28 08:36	0∘ ⊽	
avanina may al	12094 Sep 27 11:39	8°ML00'32	20°38'40	avanina may al	•	0 = 19° £ 14'58	10020110
evening max el		12°MJ39'40	20 36 40	evening max el	12095 Sep 09 23:10		19 28 19
desc. node	12094 Oct 04 02:09			retrograde	12095 Sep 19 13:34	24° £ 02'11	
retrograde	12094 Oct 08 18:33	13°M36'46		desc. node	12095 Sep 20 23:32	23° ≏ 56'22	
evening set	12094 Oct 10 23:38	13° M 24'49		evening set	12095 Sep 21 10:04	23° ≏ 52'16	
inferior conj	12094 Oct 20 00:59	9° ™ 29'42		inferior conj	12095 Sep 30 03:06	19° ≏ 46′01	
minimum elong	12094 Oct 19 14:57		4°31'39	minimum elong	12095 Sep 29 19:40	19° ≏ 57'57	2°47'20
min. Earth dist.	12094 Oct 21 03:14	8°M51'55	0.54658 AU	min. Earth dist.	12095 Oct 02 13:31	18° ≏ 12'26	0.55557 AU
morning rise	12094 Oct 28 06:03	5° M ₃31'32		morning rise	12095 Oct 08 03:03	15° ≏ 18'30	
direct	12094 Nov 01 13:08	4°ጤ51'53		direct	12095 Oct 13 06:13	14° ≏ 19'25	
morning max el	12094 Nov 14 18:57	11° M ₊17'08	23°23'30	morning max el	12095 Oct 27 05:21	21° ≙ 19'49	25°10'16
asc. node	12094 Nov 27 20:26	28°M40'06			12095 Nov 03 18:23	0° M	
	12094 Nov 28 15:00	0° ∡ ¹		asc. node	12095 Nov 14 17:19	17° M 30'06	
morning set	12094 Dec 08 06:17	18° ∡ 53′42			12095 Nov 21 00:54	0° ∡ ¹	
-	12094 Dec 13 09:34	0°ರ		morning set	12095 Nov 22 18:01	3° ∡ ³37'59	
superior conj	12094 Dec 15 04:01	3°₹49'48	1°37'11	superior conj	12095 Nov 29 13:08	18° ∡ ³32'12	1°38'39
minimum elong	12094 Dec 15 04:50	3° ප 54'14		minimum elong	12095 Nov 29 12:50	18° ∡ ³30'30	1°39'28
max. Earth dist.	12094 Dec 18 01:26	10°る00'24	1.33240 AU	max. Earth dist.	12095 Dec 01 04:14	22°×7'06'53	1.32107 AU
evening rise	12094 Dec 22 21:45	19°る57'00	1.55240710	max. Earth dist.	12095 Dec 04 20:07	0°る	1.52107 710
evening rise	12094 Dec 22 21:43 12094 Dec 28 03:44	0°≈		avanina riaa		0 3 4° ろ 00'01	
JJ.				evening rise desc. node	12095 Dec 06 18:06		
desc. node	12094 Dec 31 00:14	5°≈08'08 0°) €		desc. node	12095 Dec 17 21:10	25° る 01'00	
	12095 Jan 16 03:58		27021120		12095 Dec 20 21:02	0° ≈	25021156
evening max el	12095 Jan 26 04:47	11°) € 31'58	27°21'39	evening max el	12096 Jan 08 15:49	24°≈33'05	27°31'56
retrograde	12095 Feb 08 19:01	18° ¥ 57'06		_	12096 Jan 15 20:15	0° \	
evening set	12095 Feb 15 13:48	16° ∺ 26′07		retrograde	12096 Jan 22 11:40	1° ¥ 53'33	
min. Earth dist.	12095 Feb 19 10:19	12°) 54′46	0.64558 AU		12096 Jan 28 17:02	30° R ≈	
inferior conj	12095 Feb 21 21:13	10° ¥ 16′25	-0°37'18	evening set	12096 Jan 29 10:45	29° ≈ 31'35	
minimum elong	12095 Feb 21 22:21	10° ∺ 13′23	0°36'29	min. Earth dist.	12096 Feb 02 04:38	26° ≈ 28′20	0.62640 AU
asc. node	12095 Feb 23 18:46	8° 升 17′20		inferior conj	12096 Feb 05 01:43	23° ≈ 42'30	-1°50'00
morning rise	12095 Feb 28 08:45	4°) € 50'53		minimum elong	12096 Feb 05 05:24	23° ≈ 33'36	1°47'56
direct	12093 100 20 00.43						
	12095 Mar 02 22:15	4° ₩ 16'59		asc. node	12096 Feb 10 16:05	19° ≈ 11'50	
morning max el	12095 Mar 02 22:15		17°52'45		12096 Feb 10 16:05	19°≈11'50 18°≈33'27	
morning max el	12095 Mar 02 22:15 12095 Mar 09 07:28	7°) 35′58	17°52'45	morning rise	12096 Feb 10 16:05 12096 Feb 12 02:33	18° ≈ 33'27	
_	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31	7° ∺ 35'58 0° Υ	17°52'45	morning rise direct	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16	18°≈33'27 18°≈09'26	17°46'48
morning set	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24	7° ¥ 35'58 0° Υ 3° Υ 24'18	17°52'45	morning rise	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04	18°≈33'27 18°≈09'26 21°≈33'09	17°46'48
_	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31	7° ∺ 35'58 0° Υ	17°52'45	morning rise direct morning max el	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30	18°≈33'27 18°≈09'26 21°≈33'09 0°¥	17°46'48
morning set desc. node	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35	7°¥35'58 0° ° 3° ° 24'18 7° ° 35'25		morning rise direct morning max el morning set	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50	18°≈33'27 18°≈09'26 21°≈33'09 0°₩ 16°₩08'25	17°46'48
morning set desc. node superior conj	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23	7° ¥35'58 0° Ψ' 3° Ψ24'18 7° Ψ35'25 25° Ψ49'07	-1°18′03	morning rise direct morning max el	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11	18°≈33'27 18°≈09'26 21°≈33'09 0°¥ 16°¥08'25 28°¥07'41	17°46'48
morning set desc. node	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 08 21:17	7° X 35'58 0° Ψ 3° Ψ24'18 7° Ψ35'25 25° Ψ49'07 25° Ψ16'43	-1°18′03	morning rise direct morning max el morning set	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50	18°≈33'27 18°≈09'26 21°≈33'09 0°₩ 16°₩08'25	17°46'48
morning set desc. node superior conj minimum elong	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 08 21:17 12095 Apr 11 20:24	7°\dagger35'58 0°\dagger 3°\dagger24'18 7°\dagger35'25 25°\dagger49'07 25°\dagger16'43 0°\dagger	-1°18'03 1°17'21	morning rise direct morning max el morning set desc. node	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11 12096 Mar 16 00:28	18°≈33'27 18°≈09'26 21°≈33'09 0°₩ 16°₩08'25 28°₩07'41 0°Υ	
morning set desc. node superior conj minimum elong max. Earth dist.	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 08 21:17 12095 Apr 11 20:24 12095 Apr 13 17:41	7° X 35'58 0° Υ 3° Υ24'18 7° Υ35'25 25° Υ49'07 25° Υ16'43 0° 8 2° 8 58'54	-1°18′03	morning rise direct morning max el morning set desc. node superior conj	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11 12096 Mar 16 00:28	18°≈33'27 18°≈09'26 21°≈33'09 0° ★ 16° ★08'25 28° ★07'41 0° ♀ 6° ♀25'17	-0°37'01
morning set desc. node superior conj minimum elong	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 09 05:23 12095 Apr 11 20:24 12095 Apr 13 17:41 12095 Apr 25 03:21	7°\delta35'58 0°\dagger 3°\dagger^24'18 7°\dagger^35'25 25°\dagger^49'07 25°\dagger^16'43 0°\dagger 2°\dagger^54'54 20°\dagger^40'48	-1°18'03 1°17'21	morning rise direct morning max el morning set desc. node superior conj minimum elong	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11 12096 Mar 16 00:28 12096 Mar 19 19:51 12096 Mar 19 16:09	18°≈33'27 18°≈09'26 21°≈33'09 0° ₩ 16° ₩08'25 28° ₩07'41 0° Ŷ 6° Ŷ25'17 6° Ŷ09'53	-0°37'01 0°36'28
morning set desc. node superior conj minimum elong max. Earth dist. evening rise	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 08 21:17 12095 Apr 11 20:24 12095 Apr 13 17:41 12095 Apr 25 03:21 12095 May 01 06:07	7° \text{35'58} 0° \text{9'} 3° \text{Y'24'18} 7° \text{Y'35'25} 25° \text{Y'49'07} 25° \text{Y'16'43} 0° \text{8'} 2° \text{S'58'54} 20° \text{S'40'48} 0° \text{II}	-1°18'03 1°17'21 1.45275 AU	morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11 12096 Mar 16 00:28 12096 Mar 19 19:51 12096 Mar 19 16:09 12096 Mar 26 11:23	18°≈33'27 18°≈09'26 21°≈33'09 0° ¥ 16° ¥08'25 28° ¥07'41 0° Ŷ 6° Ŷ25'17 6° Ŷ09'53 17° Ŷ17'56	-0°37'01
morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 09 05:23 12095 Apr 11 20:24 12095 Apr 13 17:41 12095 Apr 25 03:21	7° \tas'58 0° \tag{Y} 24'18 7° \tag{Y} 25'25 25° \tag{Y} 49'07 25° \tag{Y} 16'43 0° \tag{Z} 20° \tag{S} 40'48 0° \tag{II} 13° \tag{I} 07'50	-1°18'03 1°17'21 1.45275 AU -0.6m	morning rise direct morning max el morning set desc. node superior conj minimum elong	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11 12096 Mar 16 00:28 12096 Mar 19 19:51 12096 Mar 19 16:09 12096 Mar 26 11:23 12096 Apr 03 15:54	18°≈33'27 18°≈09'26 21°≈33'09 0° ¥ 16° ¥08'25 28° ¥07'41 0° Ŷ 6° Ŷ25'17 6° Ŷ09'53 17° Ŷ17'56 0° ₺11'04	-0°37'01 0°36'28
morning set desc. node superior conj minimum elong max. Earth dist. evening rise	12095 Mar 02 22:15 12095 Mar 09 07:28 12095 Mar 24 12:31 12095 Mar 26 13:24 12095 Mar 29 01:35 12095 Apr 09 05:23 12095 Apr 08 21:17 12095 Apr 11 20:24 12095 Apr 13 17:41 12095 Apr 25 03:21 12095 May 01 06:07	7° \text{35'58} 0° \text{9'} 3° \text{Y'24'18} 7° \text{Y'35'25} 25° \text{Y'49'07} 25° \text{Y'16'43} 0° \text{8'} 2° \text{S'58'54} 20° \text{S'40'48} 0° \text{II}	-1°18'03 1°17'21 1.45275 AU	morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	12096 Feb 10 16:05 12096 Feb 12 02:33 12096 Feb 14 09:16 12096 Feb 21 01:04 12096 Feb 27 12:30 12096 Mar 08 00:50 12096 Mar 14 22:11 12096 Mar 16 00:28 12096 Mar 19 19:51 12096 Mar 19 16:09 12096 Mar 26 11:23	18°≈33'27 18°≈09'26 21°≈33'09 0° ¥ 16° ¥08'25 28° ¥07'41 0° Ŷ 6° Ŷ25'17 6° Ŷ09'53 17° Ŷ17'56	-0°37'01 0°36'28

	12096 Apr 23 22:00	0°Щ		evening rise	12097 Mar 14 16:57	10° Ƴ 18'58	
evening max el	12096 Apr 23 22:00 12096 May 03 20:51	12° Ⅱ 13'40	21°07'17	evening rise	12097 Mar 14 10.37 12097 Mar 27 14:43	0°8	
asc. node	12096 May 08 13:14	12 Ⅱ 13 40 16° Ⅱ 02'38	21 0/1/	evening max el	12097 Mai 27 14.43 12097 Apr 16 14:43	26° 8 00'43	22024102
	12096 May 08 13.14 12096 May 12 11:13	16 П 02 38 17° П 15'01		evening max er	12097 Apr 10 14.43 12097 Apr 21 08:10	20 3 00 43 0° Ⅱ	22 24 02
retrograde	12096 May 16 18:17	17 Ⅲ 1301 15° Ⅲ 31'59		aca mada	12097 Apr 21 08:10 12097 Apr 25 10:30	0 Ⅱ 1°Ⅱ41'51	
evening set	•	9° П 19'44	2007140	asc. node		1° II 41'51	
inferior conj	12096 May 22 00:34		3°07'48	retrograde	12097 Apr 26 08:33		
minimum elong	12096 May 21 23:30	9° Ⅱ 23'25	3°06'56		12097 Apr 30 20:27	30°R 8	
min. Earth dist.	12096 May 22 09:45	8° Ⅱ 47'51	0.68528 AU	evening set	12097 May 01 02:32	29° 8 47'30	2050112
morning rise	12096 May 27 04:32	3° Ⅱ 03'06		inferior conj	12097 May 06 09:53	23° 8 25'38	2°50'13
direct	12096 Jun 01 09:58	0° Ⅱ 45'45		minimum elong	12097 May 06 08:07	23° 8 31'49	2°49'16
desc. node	12096 Jun 10 23:20	6° Ⅱ 05'41	2222011.4	min. Earth dist.	12097 May 06 06:10	23° 8 38'36	0.68797 AU
morning max el	12096 Jun 11 21:07	6° Ⅱ 59'19	23°20'14	morning rise	12097 May 11 13:34	17° 8 14'43	
	12096 Jun 29 18:30	ი _ა ფ		direct	12097 May 16 05:46	15° 8 16'58	
morning set	12096 Jul 16 16:09	26° © 27'14		morning max el	12097 May 25 10:11	20° 8 38'38	21°52'23
	12096 Jul 18 18:29	0 \circ Ω		desc. node	12097 May 28 20:16	24° 8 22'30	
max. Earth dist.	12096 Jul 20 18:43	3° {\2 7'35	1.39438 AU		12097 Jun 02 08:44	Π $^{\circ}$ 0	
					12097 Jun 22 23:37	0_{\circ} වෙ	
superior conj	12096 Jul 28 10:46	17° Ω 13'38		morning set	12097 Jun 26 23:38	6°€19′07	
minimum elong	12096 Jul 28 15:13	17° Ω 34'17	1°02'41	max. Earth dist.	12097 Jul 02 19:41	15° © 49'37	1.41685 AU
	12096 Aug 04 04:23	0° m y					
asc. node	12096 Aug 04 12:43	0°Mp40'11		superior conj	12097 Jul 10 11:56	28° © 55'59	-1°35'22
evening rise	12096 Aug 06 20:54	5° m) 11'31		minimum elong	12097 Jul 10 18:30	29° © 24'47	1°35'23
	12096 Aug 21 18:31	0∘ ত			12097 Jul 11 02:30	$0^{\circ}\Omega$	
evening max el	12096 Aug 22 23:08	1° ≏ 15'57	18°39'35	evening rise	12097 Jul 21 06:04	18° Ω 24'01	
retrograde	12096 Aug 31 02:23	5° ≙ 21'05		asc. node	12097 Jul 22 09:30	20° Ω 30′24	
evening set	12096 Sep 02 01:17	5° ♀ 07'44			12097 Jul 27 15:39	0° m)	
desc. node	12096 Sep 06 20:59	2° ♀ 56'53		evening max el	12097 Aug 06 07:44	13° m 56'02	18°11'47
inferior conj	12096 Sep 10 01:02	0° ہ 42'23	-0°59'40	retrograde	12097 Aug 13 10:05	17° m/32'14	
minimum elong	12096 Sep 09 22:36	0° ჲ 46'56	0°58'46	evening set	12097 Aug 15 15:54	17° m 11'13	
•	12096 Sep 10 23:31	30°R, Mp		inferior conj	12097 Aug 22 20:49	12° m 25'24	0°34'32
min. Earth dist.	12096 Sep 13 05:10	28° m/20'32	0.57220 AU	minimum elong	12097 Aug 22 21:56	12° m) 22'56	0°33'47
morning rise	12096 Sep 17 16:30	25° m/37'00		desc. node	12097 Aug 24 18:25	10° m) 44'59	
direct	12096 Sep 23 13:09	24° m/ 12'12		min. Earth dist.	12097 Aug 26 04:28	9° mp 32'10	0.59353 AU
	12096 Oct 06 00:21	0∘ ⊽		morning rise	12097 Aug 30 00:37	6° Mp 46'11	
morning max el	12096 Oct 07 20:13	1° ഫ 40'33	26°40'04	direct	12097 Sep 05 10:06	4° Mp 52'44	
morning max er	12096 Oct 27 23:26	0°M	20 1001	morning max el	12097 Sep	12° m) 41'37	27°38'07
asc. node	12096 Oct 31 14:08	6°M47'51		morning max er	12097 Oct 03 11:24	0° <u>0</u>	27 30 07
morning set	12096 Nov 06 04:08	18°M 14'00		asc. node	12097 Oct 03 11:24 12097 Oct 18 10:53	0 — 26° ≏ 25'58	
morning sec	12096 Nov 11 13:00	0° ∡ 7		asc. node	12097 Oct 10 10:33	0°M	
	12070 NOV 11 13.00	٠ ٪		morning set	12097 Oct 20 04:47	2°M37'33	
superior conj	12096 Nov 13 00:26	3° ∡ 17'22	1°34'09	max. Earth dist.	12097 Oct 27 10:37 12097 Oct 27 20:38	16°M34'23	1.31323 AU
	12096 Nov 12 23:09	3°×17'22	1°34'47	max. Earth dist.	1209/ Oct 2/ 20.36	10 11634 23	1.31323 AU
minimum elong max. Earth dist.	12096 Nov 12 23:09 12096 Nov 13 11:47	4° ∡ ⁷ 20'36	1.31462 AU	aumarian aani	12097 Oct 28 12:03	18° M L00'15	1922150
		4 x · 20 36 18° x 19'06	1.51402 AU	superior conj minimum elong	12097 Oct 28 12:05 12097 Oct 28 10:05	17°ML49'15	1°24'18
evening rise	12096 Nov 19 21:21	0° 공		minimum elong		17 IIC4913 0° ∡ 7	1 24 16
1 1	12096 Nov 25 15:50				12097 Nov 02 22:03		
desc. node	12096 Dec 03 18:13	14° る 25'16		evening rise	12097 Nov 04 05:18	2° ҂ 148'56 0°る	
	12096 Dec 14 14:56	0° ≈	27000100	1 1	12097 Nov 18 14:33	0°る 3°る09'58	
evening max el	12096 Dec 20 21:49	6°≈51'35	27°09'09	desc. node	12097 Nov 20 15:22		26912106
retrograde	12097 Jan 03 20:01	14°≈04'40		evening max el	12097 Dec 02 20:24	18° ろ 19'01	26°12'06
evening set	12097 Jan 10 17:02	12°≈00'09	0.60526.444	retrograde	12097 Dec 16 18:50	25° ♂ 23'41	
min. Earth dist.	12097 Jan 14 12:15	9° ≈ 17'18	0.60526 AU	evening set	12097 Dec 23 04:31	23°る45'23	0.50202.441
inferior conj	12097 Jan 17 15:54	6°≈37'50		min. Earth dist.	12097 Dec 27 09:36	21° る 09'45	0.58393 AU
minimum elong	12097 Jan 17 22:28	6°≈23'56	3°05'52	inferior conj	12097 Dec 30 12:13	18° る 52'59	
morning rise	12097 Jan 25 06:48	1°≈48'36		minimum elong	12097 Dec 30 20:38	18° る 37'31	4°23'30
direct	12097 Jan 27 09:20	1° ≈ 30'57		morning rise	12098 Jan 07 15:33	14° පි 25'42	
asc. node	12097 Jan 27 13:23	1° ≈ 31'04		direct	12098 Jan 09 18:05	14° ට 10'56	
morning max el	12097 Feb 03 16:03	5°≈09'22	17°59'21	asc. node	12098 Jan 14 10:37	15° る 28'47	
morning set	12097 Feb 19 06:09	29°≈41'51		morning max el	12098 Jan 18 00:38	18° ට 14'05	18°31'57
	12097 Feb 19 10:06	0° ∀			12098 Jan 26 12:54	0° ≈	
				morning set	12098 Feb 02 23:59	13° ≈ 48'38	
superior conj	12097 Mar 01 10:48	18° ¥ 10′06	0°02'37		12098 Feb 11 11:29	0° ℋ	
minimum elong	12097 Mar 01 11:03	18° ∺ 11'11	0°02'50				
behind sun begin	12097 Mar 01 03:09	17° ¥ 36′28		superior conj	12098 Feb 11 23:00	0°) 53′34	0°36'26
behind sun end	12097 Mar 01 18:56	18° ¥ 45'48		minimum elong	12098 Feb 12 01:22	1° ∺ 04'32	0°36'32
desc. node	12097 Mar 01 18:49	18° ¥ 45′16		desc. node	12098 Feb 16 15:26	9° ∺ 24'15	
	12097 Mar 08 08:48	0° Υ		max. Earth dist.	12098 Feb 19 08:55	14° ₩ 11'31	1.40272 AU
max. Earth dist.	12097 Mar 09 00:36	1° Y 05'40	1.42378 AU	evening rise	12098 Feb 23 14:12	21° ∺ 21′21	

	12098 Feb 28 21:54	0° Ƴ		max. Earth dist.	12099 Feb 01 15:02	26°≈≈37'36	1.38038 AU
	12098 Mar 21 16:54	0°8		max. Lartii dist.	12099 Feb 03 11:46	0° ₩	1.50050710
evening max el	12098 Mar 30 05:24	9° 8 50'04	23°44'48	desc. node	12099 Feb 03 12:07	0° ₩ 01'36	
retrograde	12098 Apr 10 03:06	16° 8 15'23	250	evening rise	12099 Feb 05 08:36	3° ¥ 18'42	
asc. node	12098 Apr 12 07:50	15° 8 53'03			12099 Feb 22 00:27	0°Υ	
evening set	12098 Apr 15 08:35	14° 8 03'29		evening max el	12099 Mar 12 19:00	23° Y ′42'08	25°02'58
min. Earth dist.	12098 Apr 20 02:50	8° 8 30'11	0.68614 AU	<i>Q</i>	12099 Mar 21 12:00	0°B	
inferior conj	12098 Apr 20 18:54	7° 8 35'13	2°22'43	retrograde	12099 Mar 24 17:33	0° 8 38'20	
minimum elong	12098 Apr 20 16:46	7° 8 42'32	2°21'43	C	12099 Mar 27 17:50	30° ₹Ƴ	
morning rise	12098 Apr 26 00:56	1° 8 31'14		evening set	12099 Mar 30 10:53	28° Ƴ 15′22	
	12098 Apr 29 04:25	30° ŖƳ		asc. node	12099 Mar 30 05:11	28° Ƴ 27'13	
direct	12098 Apr 30 04:15	29° Y ′54'38		min. Earth dist.	12099 Apr 03 21:32	23° Y 17'34	0.67995 AU
	12098 May 01 04:36	0° 8		inferior conj	12099 Apr 05 01:44	21° Y ′45′02	1°45'24
morning max el	12098 May 08 05:06	4° 8 28'37	20°33'09	minimum elong	12099 Apr 04 23:41	21° Y ′51'47	1°44'30
desc. node	12098 May 15 17:07	13° 8 24'11		morning rise	12099 Apr 10 12:45	15° Ƴ 49'20	
	12098 May 27 08:20	$\Pi^{\circ}0$		direct	12099 Apr 14 03:56	14° Y 33'28	
morning set	12098 Jun 06 07:56	15° Ⅱ 10′22		morning max el	12099 Apr 21 07:37	18° Y 30'09	19°27'26
max. Earth dist.	12098 Jun 15 02:56	29° Ⅲ 02'50	1.43611 AU		12099 Apr 30 12:10	$0^{\circ}B$	
	12098 Jun 15 17:08	0 \circ \odot		desc. node	12099 May 02 13:53	2° 8 58'49	
				greatest brilliancy	12099 May 04 00:31	5° 8 05'42	-0.7m
superior conj	12098 Jun 21 14:21	9° 5 38'19	-2°01'07	morning set	12099 May 16 08:23	23° 8 46'23	
minimum elong	12098 Jun 21 20:31	10° 9 04'01	2°01'33		12099 May 20 09:10	Π °0	
	12098 Jul 03 11:28	$0^{\circ}\Omega$		max. Earth dist.	12099 May 28 16:55	13° Ⅱ 00′16	1.44997 AU
evening rise	12098 Jul 03 23:20	0° Q 52′00					
asc. node	12098 Jul 09 06:21	10° Ω 06′15		superior conj	12099 Jun 01 17:08	19° Ⅲ 21'49	
evening max el	12098 Jul 20 20:52	27° Ω 04'09	18°03'35	minimum elong	12099 Jun 01 18:15	19° Ⅱ 26′18	2°13'59
	12098 Jul 25 02:12	0° m			12099 Jun 08 07:20	0 \circ	
retrograde	12098 Jul 27 09:14	0°m/25'57		evening rise	12099 Jun 15 19:48	12° © 24'57	
evening set	12098 Jul 29 23:10	29° Ω 53'44		asc. node	12099 Jun 26 03:16	29° © 22'27	
	12098 Jul 29 16:44	30°R€			12099 Jun 26 12:53	0 $^{\circ}\Omega$	
inferior conj	12098 Aug 05 11:37	24°Ω48'35	1°45'01	evening max el	12099 Jul 04 10:59	10° Ω 31'26	18°13'55
minimum elong	12098 Aug 05 14:10	24° Ω 42'12	1°43'41	retrograde	12099 Jul 10 19:31	13° £ 53′14	
min. Earth dist.	12098 Aug 08 12:30	21°Ω46'28	0.61640 AU	evening set	12099 Jul 13 17:44	13° Ω 07'14	
desc. node	12098 Aug 11 15:49	19° Ω 05'07		inferior conj	12099 Jul 19 17:28	7° Ω 44'24	
morning rise	12098 Aug 12 02:39	18° Ω 45'51		minimum elong	12099 Jul 19 19:55	7° Ω 37'30	2°31'22
direct	12098 Aug 18 18:40	16° Ω 27'08	25055155	min. Earth dist.	12099 Jul 22 05:51	4° Ω 54'48	0.63813 AU
morning max el	12098 Sep 01 23:20	24° Ω 27'28	27°57'55	morning rise	12099 Jul 25 20:33	1° Ω 28'14	
	12098 Sep 07 00:05	0° ⴀ 0°ആ		1 1	12099 Jul 28 02:40	30°₹©	
1-	12098 Sep 26 20:46			desc. node	12099 Jul 29 13:10	29° © 22'51 28° © 52'47	
asc. node morning set	12098 Oct 05 07:36	16° Ω 17'47 16° Ω 42'44		direct	12099 Aug 01 12:21	28°93247 0°Ω	
max. Earth dist.	12098 Oct 05 12:27 12098 Oct 11 02:57	16 <u>≈</u> 42 44 28° <u>≈</u> 37'49	1 21605 AII	morning max el	12099 Aug 06 05:49 12099 Aug 15 08:25	6° Ω 53'58	27940112
max. Earm dist.	12098 Oct 11 02.57 12098 Oct 11 17:59	28 = 3749 0° ™	1.31695 AU	morning max er	12099 Aug 13 08.23 12099 Sep 02 01:19	0° m)	27 40 13
	12096 Oct 11 17.39	U IIG		morning set	12099 Sep 02 01:19 12099 Sep 19 06:18	0° ₽ 23'40	
superior conj	12098 Oct 12 22:08	2°M34'49	1°08'14	morning set	12099 Sep 19 00:18 12099 Sep 19 01:32	0° 亞	
minimum elong	12098 Oct 12 19:53	2°M22'23	1°08'16	asc. node	12099 Sep 19 01:32 12099 Sep 22 04:16	∘ _ 6° _ 18'27	
evening rise	12098 Oct 12 15:52	17°M23'33	1 00 10	max. Earth dist.	12099 Sep 24 03:05	10° ⊆ 22'38	1.32589 AU
evening rise	12098 Oct 25 18:46	0° ⊼		max. Dartii dist.	12099 Sep 21 03.03	10 —22 30	1.52507 110
desc. node	12098 Nov 07 12:36	20° х 59'40		superior conj	12099 Sep 27 04:41	16° ≏ 55'29	0°47'09
evening max el	12098 Nov 14 10:57	28° ₹ ¹56'52	24°46'28	minimum elong	12099 Sep 27 02:41	16° ≏ 44'42	0°46'57
	12098 Nov 15 14:23	0°ਰ			12099 Oct 03 05:13	0°M	
retrograde	12098 Nov 28 05:50	5° ರ 50'51		evening rise	12099 Oct 04 03:10	1° M 57'54	
evening set	12098 Dec 03 16:52	4° ප් 44'28		C	12099 Oct 19 09:18	0° ∡ ¹	
min. Earth dist.	12098 Dec 08 22:44	1° る 58'39	0.56494 AU	desc. node	12099 Oct 25 09:54	7° ∡ ³33'41	
inferior conj	12098 Dec 11 12:11	0° る 20'24		evening max el	12099 Oct 26 21:15	9° ∡ '03'40	23°05'55
minimum elong	12098 Dec 11 18:48	0° る 09'47	5°26'30	retrograde	12099 Nov 09 03:35	15° ∡ ′39'27	
3	12098 Dec 12 00:56	30°₽ , ✓		evening set	12099 Nov 13 06:05	15° ∡ 02'52	
morning rise	12098 Dec 19 22:54	26° х 14'31		min. Earth dist.	12099 Nov 20 06:34	11° ≯ ⁴48'31	0.55131 AU
direct	12098 Dec 22 08:05	25° ∡ 58'47		inferior conj	12099 Nov 21 16:43	10° ∡ 59′20	-5°52'06
	12098 Dec 31 07:19	ರ∘ರ		minimum elong	12099 Nov 21 16:12	11° ₹ 00'04	5°51'19
morning max el	12098 Dec 31 22:47	0° ප 36'01	19°26'31	morning rise	12099 Nov 30 03:54	7° ∡ "09′23	
asc. node	12099 Jan 01 07:47	0° ප 58'06		direct	12099 Dec 03 03:47	6° ∡ ¹48'11	
morning set	12099 Jan 18 02:16	28° る 17'12		morning max el	12099 Dec 14 07:18	12° х ⁴06'03	20°44'03
	12099 Jan 18 22:46	0° ≈		asc. node	12099 Dec 19 04:53	17° ∡ ¹43'15	
					12099 Dec 26 20:20	ರ∘ರ	
superior conj	12099 Jan 26 03:41	14° ≈ 22'16	1°02'53	morning set	12100 Jan 02 09:56	12° る 58'10	
minimum elong	12099 Jan 26 06:35	14° ≈ 36′28	1°03'09				

superior conj	12100 Jan 09 20:24	28° පි 23'24	1°21'46	superior conj	12100 Dec 24 21:41	12° る 47'22	1°33'29
minimum elong	12100 Jan 09 22:51	28° る 35'54	1°22'18	minimum elong	12100 Dec 24 23:10	12° る 55'11	1°34'14
	12100 Jan 10 15:22	0° ≈		max. Earth dist.	12100 Dec 28 14:22	20° る 30'26	1.34098 AU
max. Earth dist.	12100 Jan 14 23:31	8° ≈ 37'31	1.35916 AU	evening rise	12101 Jan 02 01:09	29° る 23'45	
evening rise	12100 Jan 18 21:25	16° ≈ 02'23			12101 Jan 02 08:38	0° ≈	
desc. node	12100 Jan 21 08:50	20° ≈ 32'47		desc. node	12101 Jan 08 05:39	10° ≈ 53'43	
	12100 Jan 26 20:02	0° ∀			12101 Jan 19 23:18	0° ∀	
	12100 Feb 16 12:37	0° Y		evening max el	12101 Feb 05 22:08	21° ∺ 10'46	27°02'35
evening max el	12100 Feb 23 08:37	7° Ƴ 31'45	26°11'22	retrograde	12101 Feb 19 06:30	28°) ₹35′16	
retrograde	12100 Mar 08 02:56	14° Ƴ 47'23		evening set	12101 Feb 25 21:10	26°) €02'16	
evening set	12100 Mar 14 07:42	12° Y 16′53		min. Earth dist.	12101 Mar 01 20:03	22° ∺ 13′08	0.65538 AU
asc. node	12100 Mar 17 02:34	9° Ƴ 32'12		asc. node	12101 Mar 03 23:56	19°) 45′50	
min. Earth dist.	12100 Mar 18 11:58	7° Ƴ 54'06	0.66960 AU	inferior conj	12101 Mar 04 00:28	19°) 44'17	0°00'26
inferior conj	12100 Mar 20 04:20	5° Ƴ 49'40	0°58'03	minimum elong	12101 Mar 04 00:27	19°) √ 44′21	0°00'39
minimum elong	12100 Mar 20 02:56	5° Ƴ 53'59	0°57'31	transit middle	12101 Mar 04 00:27	19°) (44′21	0°00'39
morning rise	12100 Mar 25 22:56	0° Y 04'07		transit begin	12101 Mar 03 21:28	19° ¥ 52'52	
	12100 Mar 26 01:44	30° ₹ ₩		transit end	12101 Mar 04 03:26	19° ∺ 35′50	
direct	12100 Mar 29 03:06	29° ∺ 07'00		morning rise	12101 Mar 10 05:11	14° ₩ 10'57	
	12100 Apr 01 06:55	γ°		direct	12101 Mar 12 23:35	13° ¥ 29'40	
morning max el	12100 Apr 04 17:22	2° Y 39'18	18°37'29	morning max el	12101 Mar 19 08:25	16° ¥ 50′06	18°04'12
desc. node	12100 Apr 19 10:34	22° Y 56'51			12101 Mar 29 02:47	0° Y	
	12100 Apr 23 22:54	9° 8		desc. node	12101 Apr 06 07:11	13° Ƴ 11'51	
morning set	12100 Apr 25 23:26	3° 8 10'16		morning set	12101 Apr 06 18:08	13° Ƴ 56′27	
max. Earth dist.	12100 May 11 11:34	27° 8 25'45	1.45692 AU		12101 Apr 16 17:04	9° 8	
superior conj	12100 May 12 02:54	28° 8 25'41	-2°05'52	superior conj	12101 Apr 21 11:48	7° 8 34'12	-1°39'21
minimum elong	12100 May 11 20:31	28° 8 00'42	2°06'14	minimum elong	12101 Apr 21 02:28	6° 8 57'27	1°38'53
	12100 May 13 03:01	Π $^{\circ}0$		max. Earth dist.	12101 Apr 24 07:39	12° 8 00'33	1.45636 AU
evening rise	12100 May 27 16:04	22° II 57'08			12101 May 05 21:24	$\Pi^{\circ}0$	
	12100 Jun 01 02:11	0°99		evening rise	12101 May 07 14:29	2° Ⅲ 38'44	
greatest brilliancy	12100 Jun 04 10:33	5° © 18'42	-0.9m	greatest brilliancy	12101 May 20 11:40	22° Ⅱ 19'37	-0.7m
asc. node	12100 Jun 13 00:15	18° © 11'37			12101 May 25 19:33	0ංම	
evening max el	12100 Jun 17 23:03	24° © 09'53	18°42'06	asc. node	12101 May 30 21:19	6° 5 24'33	
retrograde	12100 Jun 24 13:01	27°5645'22		evening max el	12101 Jun 01 06:46	7° © 53'26	19°27'09
evening set	12100 Jun 27 19:37	26°5544'02		retrograde	12101 Jun 08 10:27	11° © 55'09	
inferior conj	12100 Jul 03 10:25	21° © 05'17	3°01'00	evening set	12101 Jun 12 01:54	10°937'45	
minimum elong	12100 Jul 03 12:01	21° © 00'19	2°59'57	inferior conj	12101 Jun 17 11:09	4°5544'41	3°13'37
min. Earth dist.	12100 Jul 05 08:11	18° © 44'17	0.65678 AU	minimum elong	12101 Jun 17 11:41	4°9542'58	3°12'44
morning rise	12100 Jul 09 03:35	14° © 43'19		min. Earth dist.	12101 Jun 18 18:11	3° © 02'29	0.67139 AU
direct	12100 Jul 15 13:40	12° © 01'27			12101 Jun 21 05:58	30° Ŗ Ⅱ	
desc. node	12100 Jul 16 10:25	12° 5 04'06		morning rise	12101 Jun 22 21:01	28° Ⅲ 22'11	
morning max el	12100 Jul 28 19:23		26°50'50	direct	12101 Jun 28 21:34	25° Ⅱ 43'40	
5 5	12100 Aug 06 11:27	0°N		desc. node	12101 Jul 03 07:36	26° I I53'20	
	12100 Aug 26 03:07	0° m)			12101 Jul 07 21:27	0ං ම	
morning set	12100 Sep 02 13:35	13° m/33'16		morning max el	12101 Jul 11 06:07	3° © 07'47	25°38'08
max. Earth dist.	12100 Sep 06 18:05	21° m) 45'23	1.33997 AU	Č	12101 Jul 31 16:41	$0^{\circ}\Omega$	
asc. node	12100 Sep 09 00:56	26° m) 23'49		morning set	12101 Aug 16 06:31	26° Ω 01'34	
	12100 Sep 10 18:42	0∘ <u>⊽</u>		C	12101 Aug 18 10:19	0° m⊅	
				max. Earth dist.	12101 Aug 19 22:52		1.35875 AU
superior conj	12100 Sep 11 05:29	0° ჲ 56'14	0°21'02				
minimum elong	12100 Sep 11 04:24	0° ჲ 50'35	0°20'45	superior conj	12101 Aug 25 21:44	14° m 29'20	-0°09'30
evening rise	12100 Sep 18 13:21	16° ≙ 26'50		minimum elong	12101 Aug 25 22:19	14° m 32'19	0°09'41
	12100 Sep 25 07:16	0° M		behind sun begin	12101 Aug 25 17:18	14° Mp 07'06	
evening max el	12100 Oct 08 12:11	19°MJ14'53	21°28'08	behind sun end	12101 Aug 26 03:21	14° m 57'34	
desc. node	12100 Oct 12 07:15	22°M25'42		asc. node	12101 Aug 26 21:34	16° m 29′28	
retrograde	12100 Oct 20 16:08	25°M17'43			12101 Sep 02 11:42	0∘ ⊽	
evening set	12100 Oct 23 10:07	25°ML00'22		evening rise	12101 Sep 02 20:14	0° ≙ 43'40	
inferior conj	12100 Nov 01 09:28	21°ML05'23	-5°19'15	evening max el	12101 Sep 20 15:29	0°ML01'53	20°06'05
minimum elong	12100 Nov 01 01:07	21°M17'05	5°17'07	-	12101 Sep 20 14:44	0° M ₊	
min. Earth dist.	12100 Nov 01 12:59	21°ML00'28	0.54561 AU	desc. node	12101 Sep 29 04:39	5°M06'28	
morning rise	12100 Nov 09 17:02	17°M16'38		retrograde	12101 Oct 01 05:30	5°ML17'47	
direct	12100 Nov 13 12:17	16°M45'26		evening set	12101 Oct 03 04:49	5°ML07'38	
morning max el	12100 Nov 26 02:29	22°M46'18	22°21'48	inferior conj	12101 Oct 12 04:13	1°ML08'52	-3°53'16
	12100 Dec 02 09:00	0° ∡ ¹		minimum elong	12101 Oct 11 18:37	1°ML23'14	3°49'50
asc. node	12100 Dec 06 01:53	5° ∡ ¹27'56		min. Earth dist.	12101 Oct 13 21:28	0° M 07'06	0.54929 AU
morning set	12100 Dec 17 20:40	27° ∡ ¹45′02			12101 Oct 14 02:16	30° ₹ Ω	
-	12100 Dec 18 22:07	ರ°0		morning rise	12101 Oct 20 07:21	26° ≏ 59'52	

direct	12101 Oct 24 22:49	26° ≙ 13'00	
	12101 Nov 04 02:27	0°M	
morning max el	12101 Nov 07 13:52	2°M54'20	24°09'50
asc. node	12101 Nov 22 22:49	23°M57'08	
	12101 Nov 26 05:20	0° ∡ ¹	
morning set	12101 Dec 02 08:31	12° ∡ 31'22	
superior conj	12101 Dec 09 04:38	27° ∡ °24'58	1°38'33
minimum elong	12101 Dec 09 04:58	27° ∡ ¹26'47	1°39'23
	12101 Dec 10 09:11	0°ರ	
max. Earth dist.	12101 Dec 11 12:50	2° そ 29'02	1.32697 AU
evening rise	12101 Dec 16 16:18	13° る 13'27	
	12101 Dec 25 13:12	0° ≈	
desc. node	12101 Dec 26 02:33	0° ≈ 58'23	