minimum elong	14600 Jan 18 20:05	11° ≈ 26′27	1°32'51	min. Earth dist.	14600 Nov 05 17:50	24°ML44'47	0.55761 AU
	14600 Jan 18 21:28	11° ≈ 33'56	1°33'36	morning rise	14600 Nov 10 22:40	21°M56'28	
max. Earth dist.	14600 Jan 21 14:24	17° ≈ 22'39	1.32896 AU	direct	14600 Nov 16 08:42	20°M49'40	
evening rise	14600 Jan 26 12:27	27° ≈ 32'21		morning max el	14600 Nov 30 09:27	27°M54'54	25°29'18
C	14600 Jan 27 18:14	0°) €		C	14600 Dec 02 11:03	0° ∡ ¹	
desc. node	14600 Feb 01 13:25	9°) €06'14		asc. node	14600 Dec 17 20:29	22° ₹ 07'10	
	14600 Feb 14 05:33	$0^{\circ}\Upsilon$			14600 Dec 22 01:00	0°ರ	
evening max el	14600 Mar 01 15:22	19° Ƴ 06'16	27°26'38	morning set	14600 Dec 27 11:23	11° る 13'50	
retrograde	14600 Mar 15 07:43	26° Ƴ 35′08		C			
evening set	14600 Mar 22 02:07	24° Y 07'01		superior conj	14601 Jan 03 05:24	26° る 05'23	1°37'43
min. Earth dist.	14600 Mar 25 21:53	20° Ƴ 41'18	0.64281 AU	minimum elong	14601 Jan 03 05:43	26° ට 07'09	1°38'41
inferior conj	14600 Mar 28 11:59	17° Ƴ 56'50	-0°06'36	max. Earth dist.	14601 Jan 04 17:29	29° る 24'29	1.31790 AU
minimum elong	14600 Mar 28 12:11	17° Ƴ 56'17	0°06'43		14601 Jan 04 23:57	0° ≈	
transit middle	14600 Mar 28 12:11	17° Ƴ 56'17	0°06'43	evening rise	14601 Jan 10 09:25	11° ≈ 32'56	
transit begin	14600 Mar 28 09:23	18° Ƴ 03'46		desc. node	14601 Jan 19 10:06	28° ≈ 59'31	
transit end	14600 Mar 28 15:00	17° Ƴ 48'49			14601 Jan 19 23:43	0° ∀	
asc. node	14600 Mar 28 20:15	17° Ƴ 34'55			14601 Feb 10 02:05	0 ° Υ	
morning rise	14600 Apr 04 00:22	12° Ƴ 34'37		evening max el	14601 Feb 12 01:47	1° Y 59'12	27°33'30
direct	14600 Apr 06 13:34	12° Ƴ 01'32		retrograde	14601 Feb 25 23:40	9° Y 23′50	
morning max el	14600 Apr 12 22:09	15° Ƴ 17'44	17°50'09	evening set	14601 Mar 04 20:40	7° Y 06'59	
-	14600 Apr 23 11:19	9° 8		min. Earth dist.	14601 Mar 08 14:45	4° Υ 07'28	0.62222 AU
morning set	14600 Apr 29 22:58	10° 8 49'17		inferior conj	14601 Mar 11 14:39	1° Y 18'02	-1°20'14
desc. node	14600 Apr 30 15:42	11° 8 59'34		minimum elong	14601 Mar 11 17:24	1° Y 11'30	1°19'01
	14600 May 11 13:12	$\Pi^{\circ}0$		C	14601 Mar 13 00:14	30° ₹ ₩	
	•			asc. node	14601 Mar 15 17:43	27°) 46'48	
superior conj	14600 May 13 08:28	2° ∏ 54'24	-1°29'07	morning rise	14601 Mar 18 17:03	26° ¥ 12'55	
minimum elong	14600 May 13 00:03	2° Ⅱ 20′36	1°29'02	direct	14601 Mar 20 22:56	25° ¥ 50′05	
max. Earth dist.	14600 May 18 06:31	10° Ⅱ 44′04	1.45262 AU	morning max el	14601 Mar 27 15:45	29° ∺ 13'34	17°47'18
evening rise	14600 May 29 02:43	27° Ⅲ 33'41		•	14601 Mar 28 09:55	$0^{\circ}\mathbf{\Upsilon}$	
	14600 May 30 17:02	0°ಅ		morning set	14601 Apr 12 12:55	23° Y 40'49	
greatest brilliancy	14600 Jun 12 21:54	19° 5 643'32	-0.6m		14601 Apr 16 03:03	8° 0	
	14600 Jun 20 08:41	$0^{\circ}\Omega$		desc. node	14601 Apr 17 12:20	2° 8 25'20	
asc. node	14600 Jun 24 18:00	5° Ω 10′00					
evening max el	14600 Jun 25 09:50	5° Ω 50'34	20°06'29	superior conj	14601 Apr 24 03:13	13° 8 45'03	-0°50'55
retrograde	14600 Jul 03 02:30	10° Ω 13′22		minimum elong	14601 Apr 23 22:20	13° 8 24'35	0°50'50
evening set	14600 Jul 07 01:22	8° Ω 43′26		max. Earth dist.	14601 Apr 30 23:28	24° 8 59'59	1.43968 AU
inferior conj	14600 Jul 12 08:11	2° Ω 41'54	3°09'10		14601 May 04 02:36	Π \circ 0	
minimum elong	14600 Jul 12 08:43	2° Ω 40′04	3°08'13	evening rise	14601 May 08 16:13	7° Ⅱ 08'57	
min. Earth dist.	14600 Jul 13 05:45	1° Ω 28'36	0.68092 AU		14601 May 23 23:27	0 \circ \odot	
	14600 Jul 14 08:27	30° ℝ ∽		evening max el	14601 Jun 08 08:04	19° © 41'35	21°15'15
morning rise	14600 Jul 17 15:44	26°9518'45		asc. node	14601 Jun 11 14:59	22° © 34'54	
direct	14600 Jul 23 06:50	23° © 50'33		retrograde	14601 Jun 17 01:24	24° © 45'59	
desc. node	14600 Jul 27 14:59	25° © 02'08		evening set	14601 Jun 21 10:51	2200550112	
	14600 Aug 03 01:33	$0^{\circ}\Omega$			14601 Jun 21 10:51	22° © 59'12	
	8	* 00		inferior conj	14601 Jun 26 16:35	16°946'25	3°09'29
morning max el	14600 Aug 03 19:38	0° Ω 44'57	24°33'52	minimum elong			3°08'27
morning max el	14600 Aug 03 19:38 14600 Aug 25 22:09	0° Ω 44'57 0° m	24°33'52		14601 Jun 26 16:35	16°\$46'25 16°\$47'58 16°\$18'22	
morning max el morning set	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00	0° Ω 44'57	24°33'52	minimum elong	14601 Jun 26 16:35 14601 Jun 26 16:08	16°\$46'25 16°\$47'58	3°08'27
-	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11	0° Ω44'57 0° m 22° m 07'34 28° m 30'44	24°33'52 1.37584 AU	minimum elong min. Earth dist. morning rise direct	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02	16°\$46'25 16°\$47'58 16°\$18'22	3°08'27
morning set	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00	0° Ω 44'57 0° m 22° m 07'34		minimum elong min. Earth dist. morning rise direct desc. node	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05	3°08'27 0.68801 AU
morning set max. Earth dist.	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50	0° Ω44'57 0° m 22° m 07'34 28° m 30'44		minimum elong min. Earth dist. morning rise direct	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15	3°08'27
morning set max. Earth dist. superior conj	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50	0° Ω44'57 0° m 22° m 07'34 28° m 30'44	1.37584 AU	minimum elong min. Earth dist. morning rise direct desc. node	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48	16°946'25 16°947'58 16°918'22 10°928'05 8°914'48 11°947'12 14°921'15 0°\$\$\Omega\$	3°08'27 0.68801 AU
morning set max. Earth dist. superior conj minimum elong	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54	0° \$\mathcal{Q} 44'57 0° \$\mathcal{D}\$ 22° \$\mathcal{D}\$ 07'34 28° \$\mathcal{D}\$ 30'44 0° \$\mathcal{D}\$ 11° \$\mathcal{D}\$ 41'20 11° \$\mathcal{D}\$ 46'26	1.37584 AU -0°15'51	minimum elong min. Earth dist. morning rise direct desc. node morning max el	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Oldsymbol{Q}} 0°\$\textbf{m}\$	3°08'27 0.68801 AU
morning set max. Earth dist. superior conj minimum elong behind sun begin	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05	0° \$\mathcal{Q}44'57 0° \$\mathcal{D}\$ 22° \$\mathcal{D}\$07'34 28° \$\mathcal{D}\$30'44 0° \$\mathcal{D}\$ 11° \$\mathcal{D}\$44'20 11° \$\mathcal{D}\$46'26 11° \$\mathcal{D}\$37'35	1.37584 AU -0°15'51	minimum elong min. Earth dist. morning rise direct desc. node	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17	16°946'25 16°947'58 16°918'22 10°928'05 8°914'48 11°947'12 14°921'15 0°\$\$\Omega\$	3°08'27 0.68801 AU
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44	0° \$\mathcal{Q}44'57 0° \$\mathcal{D}\$ 22° \$\mathcal{D}\$07'34 28° \$\mathcal{D}\$30'44 0° \$\mathcal{D}\$ 11° \$\mathcal{D}\$44'20 11° \$\mathcal{D}\$46'26 11° \$\mathcal{D}\$37'35 11° \$\mathcal{D}\$55'16	1.37584 AU -0°15'51	minimum elong min. Earth dist. morning rise direct desc. node morning max el	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Oldsymbol{Q}} 0°\$\textbf{m}\$	3°08'27 0.68801 AU
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29	0° \$\mathcal{Q}44'57 0° \$\mathcal{D}\$ 22° \$\mathcal{D}\$07'34 28° \$\mathcal{D}\$30'44 0° \$\mathcal{D}\$ 11° \$\mathcal{D}\$41'20 11° \$\mathcal{D}\$46'26 11° \$\mathcal{D}\$37'35 11° \$\mathcal{D}\$55'16 15° \$\mathcal{D}\$04'19	1.37584 AU -0°15'51	minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$1 0°\$1 10°\$17'14	3°08'27 0.68801 AU 23°04'24 1.39958 AU
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11	0° \$\mathcal{Q}44'57\\ 0° \$\mathcal{D}\$\text{\text{\$\mathcal{Q}\$}}\text{\text{\$\mathcal{Q}\$}}\text{\text{\$\mathcal{D}\$}}\text{\text{\$\mathcal{Q}\$}}\text{\text{\$\mathcal{D}\$}\text{\text{\$\mathcal{D}\$}}\text{\text{\$\mathcal{D}\$}}\te	1.37584 AU -0°15'51	minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 24 23:46 14601 Sep 01 18:51	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Omega\$ 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$59'16 10°\$\mathbf{m}\$17'14	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16	0° \$\Omega44'57\ 0° \$\mathbf{m}\) 22° \$\mathbf{m}\)07'34 28° \$\mathbf{m}\)30'44 0° \$\Omega\$ 11° \$\Omega41'20\ 11° \$\Omega46'26\) 11° \$\Omega55'16\) 15° \$\Omega04'19\) 28° \$\Omega34'48\) 0° \$\mathbf{m}\\$	1.37584 AU -0°15'51 0°15'33	minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$0 0°\$0 2°\$\$159'16 10°\$\$17'14	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08	0° \$\Omega 44'57 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$07'34 28° \$\mathbf{m}\$30'44 0° \$\Omega\$ 11° \$\Omega 44'20\$ 11° \$\Omega 44'20\$ 11° \$\Omega 46'26\$ 11° \$\Omega 37'35\$ 11° \$\Omega 55'16\$ 15° \$\Omega 04'19\$ 28° \$\Omega 34'48\$ 0° \$\mathbf{m}\$ 26° \$\mathbf{m}\$.04'46\$	1.37584 AU -0°15'51	minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 04 22:45	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Omega\$ 0°\$\mathred{m}\$ 2°\$\mathred{m}\$07'45 24°\$\mathred{m}\$025'29 0°\$\mathred{n}\$	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08 14600 Oct 19 20:52	0° \$\alpha 44'57 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$ 07'34 28° \$\mathbf{m}\$ 30'44 0° \$\alpha\$ 11° \$\alpha 44'20\$ 11° \$\alpha 46'26\$ 11° \$\alpha 37'35\$ 11° \$\alpha 55'16\$ 15° \$\alpha 04'19\$ 28° \$\alpha 34'48\$ 0° \$\mathbf{m}\$ 26° \$\mathbf{m}\$ 04'46\$ 0° \$\mathbf{m}\$	1.37584 AU -0°15'51 0°15'33	minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 04 22:45 14601 Sep 07 16:03	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Omega\$ 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$07'45 25'\$\sigma\$ 5°\$\sigma\$08'54	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08 14600 Oct 19 20:52 14600 Oct 23 11:11	0° \$\mathcal{Q}44'57\\ 0° \$\mathcal{m}\\ 22° \$\mathcal{m}\)07'34\\ 28° \$\mathcal{m}\)30'44\\ 0° \$\mathcal{\Omega}\\ 11° \$\mathcal{\Omega}\)41'20\\ 11° \$\mathcal{\Omega}\)46'26\\ 11° \$\mathcal{\Omega}\)448\\ 0° \$\mathcal{m}\\ 26° \$\mathcal{m}\).04'46\\ 0° \$\mathcal{\Omega}\\ 0° \$\mathcal{\Omega}\)46'26\\	1.37584 AU -0°15'51 0°15'33	minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 04 22:45 14601 Sep 07 16:03 14601 Sep 11 09:33	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Omega\$ 0°\$\mathred{m}\$07'45 24°\$\mathred{m}\$07'45 24°\$\mathred{m}\$025'29 0°\$\mathred{\textit{0}}\$5°\$\mathred{\textit{0}}\$08'54 12°\$\mathred{\textit{0}}\$17'12	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08 14600 Oct 19 20:52 14600 Oct 23 11:11 14600 Oct 23 16:59	0° \$\mathcal{Q}44'57\\ 0° \$\mathcal{m}\\ 22° \$\mathcal{m}\)07'34\\ 28° \$\mathcal{m}\)30'44\\ 0° \$\mathcal{Q}\\ 11° \$\mathcal{Q}41'20\\ 11° \$\mathcal{Q}46'26\\ 11° \$\mathcal{Q}37'35\\ 11° \$\mathcal{Q}55'16\\ 15° \$\mathcal{Q}04'19\\ 28° \$\mathcal{Q}34'48\\ 0° \$\mathcal{m}\\ 0° \$\mat	1.37584 AU -0°15'51 0°15'33	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	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 01 22:43 14601 Sep 01 16:03 14601 Sep 11 09:33 14601 Sep 21 04:37	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Omega\$ 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$05'29 0°\$\mathbf{n}\$ 5°\$\mathbf{n}\$08'54 12°\$\mathbf{n}\$17'12 0°\$\mathbf{m}\$	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16 0°50'49
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08 14600 Oct 19 20:52 14600 Oct 23 11:11 14600 Oct 23 16:59 14600 Oct 25 13:55	0° \$\mathcal{Q}44'57\\ 0° \$\mathcal{m}\\ 22° \$\mathcal{m}\)07'34\\ 28° \$\mathcal{m}\)30'44\\ 0° \$\mathcal{Q}\\ 11° \$\mathcal{Q}41'20\\ 11° \$\mathcal{Q}46'26\\ 11° \$\mathcal{Q}37'35\\ 11° \$\mathcal{Q}55'16\\ 15° \$\mathcal{Q}04'19\\ 28° \$\mathcal{Q}34'48\\ 0° \$\mathcal{m}\\ 0° \$\mat	1.37584 AU -0°15'51 0°15'33	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 evening max el	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 01 22:43 14601 Sep 07 16:03 14601 Sep 11 09:33 14601 Sep 21 04:37 14601 Sep 27 09:25	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°Ω 0°™ 2°™59'16 10°™17'14 24°™07'45 24°™25'29 0°Ω 5°Ω08'54 12°Ω17'12 0°™ 8°™09'58	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08 14600 Oct 19 20:52 14600 Oct 23 11:11 14600 Oct 23 16:59 14600 Oct 25 13:55 14600 Oct 27 17:42	0° \$\Omega 44'57 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$07'34 28° \$\mathbf{m}\$30'44 0° \$\Omega\$ 11° \$\Omega 41'20\$ 11° \$\Omega 46'26\$ 11° \$\Omega 37'35\$ 11° \$\Omega 55'16\$ 15° \$\Omega 04'19\$ 28° \$\Omega 34'48\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$\$46'26\$ 0° \$\mathbf{m}\$\$46'36\$ 0° \$\mathbf{m}\$\$36'09 30° \$\mathbf{m}\$\$\$\mathbf{m}\$\$\$\mathbf{m}\$\$\$\mathbf{m}\$\$\$\mathbf{m}\$\$\$\$\mathbf{m}\$\$\$\$\mathbf{m}\$\$\$\$0\$	1.37584 AU -0°15'51 0°15'33	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 evening max el retrograde	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 01 22:43 14601 Sep 01 10:03 14601 Sep 11 09:33 14601 Sep 21 04:37 14601 Sep 27 09:25 14601 Oct 05 08:48	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°\$\Omega\$ 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$07'45 24°\$\mathbf{m}\$25'29 0°\$\mathbf{n}\$ 12°\$\mathbf{n}\$17'12 0°\$\mathbf{m}\$ 8°\$\mathbf{m}\$09'58 12°\$\mathbf{m}\$11'51	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16 0°50'49
morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde	14600 Aug 03 19:38 14600 Aug 25 22:09 14600 Sep 08 11:00 14600 Sep 12 01:11 14600 Sep 12 20:50 14600 Sep 19 01:51 14600 Sep 19 02:54 14600 Sep 19 01:05 14600 Sep 19 04:44 14600 Sep 20 19:29 14600 Sep 27 14:11 14600 Sep 28 07:16 14600 Oct 14 08:08 14600 Oct 19 20:52 14600 Oct 23 11:11 14600 Oct 23 16:59 14600 Oct 25 13:55	0° \$\mathcal{Q}44'57\\ 0° \$\mathcal{m}\\ 22° \$\mathcal{m}\)07'34\\ 28° \$\mathcal{m}\)30'44\\ 0° \$\mathcal{Q}\\ 11° \$\mathcal{Q}41'20\\ 11° \$\mathcal{Q}46'26\\ 11° \$\mathcal{Q}37'35\\ 11° \$\mathcal{Q}55'16\\ 15° \$\mathcal{Q}04'19\\ 28° \$\mathcal{Q}34'48\\ 0° \$\mathcal{m}\\ 0° \$\mat	1.37584 AU -0°15'51 0°15'33 19°18'56	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 evening max el	14601 Jun 26 16:35 14601 Jun 26 16:08 14601 Jun 27 00:38 14601 Jul 01 21:12 14601 Jul 07 00:02 14601 Jul 14 12:19 14601 Jul 17 06:50 14601 Jul 29 23:48 14601 Aug 18 20:17 14601 Aug 20 15:53 14601 Aug 24 23:46 14601 Sep 01 18:51 14601 Sep 01 22:43 14601 Sep 01 22:43 14601 Sep 07 16:03 14601 Sep 11 09:33 14601 Sep 21 04:37 14601 Sep 27 09:25	16°\$46'25 16°\$47'58 16°\$18'22 10°\$28'05 8°\$14'48 11°\$47'12 14°\$21'15 0°Ω 0°™ 2°™59'16 10°™17'14 24°™07'45 24°™25'29 0°Ω 5°Ω08'54 12°Ω17'12 0°™ 8°™09'58	3°08'27 0.68801 AU 23°04'24 1.39958 AU -0°51'16 0°50'49

inforior coni	14601 Oat 15 05:19	7°M28'56	1922100	inforior coni	14602 Sep 27 04:18	19° ≙ 17'46	0°01'26
inferior conj	14601 Oct 15 05:18			inferior conj	-		
minimum elong	14601 Oct 15 01:35	7°M36'06	1°31'07	minimum elong	14602 Sep 27 04:21	19° ₽ 17'39	0°01'38
min. Earth dist.	14601 Oct 18 10:02	5°M02'05	0.57544 AU	transit middle	14602 Sep 27 04:21	19° ₽ 17'39	0°01'38
morning rise	14601 Oct 22 15:58	2°M20'59		transit begin	14602 Sep 27 01:00	19° ≏ 25'09	
direct	14601 Oct 28 18:15	0° M 47′28		transit end	14602 Sep 27 07:42	19° ≏ 10'07	
morning max el	14601 Nov 12 00:59	8°M18'02	26°54'45	desc. node	14602 Sep 27 06:08	19° ≏ 13'39	
	14601 Nov 28 09:28	0° ∡ 7		min. Earth dist.	14602 Sep 30 10:24	16° ≏ 24'03	0.59735 AU
asc. node	14601 Dec 04 17:29	11° ∡ 15′29		morning rise	14602 Oct 04 04:37	13° ≏ 36'50	
morning set	14601 Dec 11 21:02	25° ∡ ⁴44'31		direct	14602 Oct 10 17:16	11° ≏ 36'44	
	14601 Dec 13 20:13	8°0		morning max el	14602 Oct 25 00:15	19° ≏ 25'11	27°46'00
					14602 Nov 03 00:40	0° M	
superior conj	14601 Dec 18 16:41	10° る 46'47	1°36'32		14602 Nov 21 04:40	0° ∡ ¹	
minimum elong	14601 Dec 18 15:57	10° ප් 42'40	1°37'33	asc. node	14602 Nov 21 14:22	0° ∡ ¹47'36	
max. Earth dist.	14601 Dec 19 00:39	11° る 31'19	1.31201 AU	morning set	14602 Nov 26 02:55	10° ∡ '01'10	
evening rise	14601 Dec 25 12:57	25° る 48'39		max. Earth dist.	14602 Dec 02 08:30	23° ∡ ³36′07	1.31146 AU
3	14601 Dec 27 12:56	0° ≈					
desc. node	14602 Jan 06 06:53	18° ≈ 27'19		superior conj	14602 Dec 03 04:05	25° ∡ °25'20	1°29'27
dese. Hode	14602 Jan 13 14:16	0° ∀		minimum elong	14602 Dec 03 02:28	25° х 16'17	1°30'20
avanina may al	14602 Jan 25 06:59	14°)(07'44	27906124	minimum ciong		25 メ ・1017 0° る	1 30 20
evening max el			27°06'34		14602 Dec 05 05:15		
retrograde	14602 Feb 08 06:58	21°) (23'34		evening rise	14602 Dec 09 20:54	10°る14'21	
evening set	14602 Feb 15 00:10	19° ∺ 26′01			14602 Dec 19 19:57	0° ≈	
min. Earth dist.	14602 Feb 18 21:22	16°) 43′54	0.60016 AU	desc. node	14602 Dec 24 03:45	7° ≈ 20'01	
inferior conj	14602 Feb 22 02:07	14°) €05'24		evening max el	14603 Jan 07 04:42	25° ≈ 24'51	26°05'09
minimum elong	14602 Feb 22 08:10	13°) 52′53	2°41'11		14603 Jan 13 02:17	0° ∀	
morning rise	14602 Mar 01 19:31	9° ∺ 20'00		retrograde	14603 Jan 21 03:32	2° 升 28′53	
asc. node	14602 Mar 02 15:12	9°)(09'41		evening set	14603 Jan 27 08:47	0°) 57′29	
direct	14602 Mar 03 20:27	9°) €03'51			14603 Jan 29 03:58	30° R ≈	
morning max el	14602 Mar 11 06:16	12°) 45'34	18°03'01	min. Earth dist.	14603 Jan 31 17:58	28° ≈ 20'09	0.57871 AU
Ü	14602 Mar 22 20:21	$_0$ ° $\mathbf{\gamma}$		inferior conj	14603 Feb 03 18:53	26° ≈ 09'37	-4°10'07
morning set	14602 Mar 26 20:04	7° Y 19'04		minimum elong	14603 Feb 04 03:38	25° ≈ 53'53	4°06'44
desc. node	14602 Apr 04 08:53	22° Y '57'02		morning rise	14603 Feb 12 01:30	21°≈45'34	
desc. flode	14002 Apr 04 00.33	22 13/02		direct	14603 Feb 14 01:58	21°≈32'19	
	14602 4 05 21.20	25° Ƴ 39'46	0012110				
superior conj	14602 Apr 05 21:28			asc. node	14603 Feb 17 12:38	22°≈13'04	10020150
minimum elong	14602 Apr 05 20:26	25° Y 35'09	0°12'28	morning max el	14603 Feb 22 13:46	25°≈42'35	18°38'58
behind sun begin	14602 Apr 05 15:29	25° Y 13'15			14603 Feb 26 05:53	0° ∀	
behind sun end	14602 Apr 06 01:22	25° Y 57′01		morning set	14603 Mar 10 15:13	21° ¥ 28′59	
	14602 Apr 08 08:53	$0^{\circ}S$			14603 Mar 15 00:45	0° Υ	
max. Earth dist.	14602 Apr 13 11:34	8° 8 41'26	1.42136 AU				
evening rise	14602 Apr 18 20:22	17° 8 26'54		superior conj	14603 Mar 19 11:53	8° Ƴ 28'49	0°22'17
	14602 Apr 26 22:02	Π $^{\circ}0$		minimum elong	14603 Mar 19 13:22	8° Y 35'43	0°21'59
	14602 May 18 18:21	0 \circ \odot		desc. node	14603 Mar 22 05:24	13° Y 31'10	
evening max el	14602 May 22 01:22	3°533'03	22°33'09	max. Earth dist.	14603 Mar 26 19:27	21° Y '41'46	1.39968 AU
asc. node	14602 May 29 12:06	8° © 55'10		evening rise	14603 Mar 30 21:18	28° Y '40'03	
retrograde	14602 May 31 22:43	9° © 21'49		Č	14603 Mar 31 16:27	0°8	
evening set	14602 Jun 05 19:21	7° © 19'29			14603 Apr 20 09:41	0°II	
inferior conj	14602 Jun 11 02:21	0°957'35	2°59'03	evening max el	14603 May 04 15:50	17° Ⅱ 26'14	23°54'28
minimum elong	14602 Jun 11 01:03	1°902'07	2°57'51	retrograde	14603 May 15 16:59	23° I 55'14	25 5420
min. Earth dist.	14602 Jun 10 21:24	1° S 02'07	0.69027 AU	asc. node	14603 May 16 09:18	23° I 53'12	
min. Latin dist.			0.09027 AU		•	23 H 33 12 21° H 39'32	
	14602 Jun 11 18:55 14602 Jun 16 06:35	30°RⅡ 24°Ⅱ45'59		evening set min. Earth dist.	14603 May 21 01:15		0 60775 411
morning rise					14603 May 25 17:51	16° Ⅱ 11'42	
direct	14602 Jun 20 20:55	22° ∏ 51'11		inferior conj	14603 May 26 11:33	15° Ⅱ 11'22	
morning max el	14602 Jun 29 21:03	28° Ⅱ 05'37	21°37'46	minimum elong	14603 May 26 09:38	15° Ⅱ 17'55	2°36'54
desc. node	14602 Jul 01 09:31	29° ∏ 40'48		morning rise	14603 May 31 18:02	9° Ⅱ 07'54	
	14602 Jul 01 16:33	0		direct	14603 Jun 04 20:06	7° Ⅱ 33'19	
	14602 Jul 23 13:56	$0 {\circ} \Omega$		morning max el	14603 Jun 12 17:12	12° Ⅱ 00′22	20°20'44
morning set	14602 Jul 31 20:15	12° Ω 47'32		desc. node	14603 Jun 18 06:37	18° Ⅱ 24'38	
max. Earth dist.	14602 Aug 07 02:37	22° Ω 54'42	1.42205 AU		14603 Jun 26 16:26	0 \circ \odot	
	14602 Aug 11 08:28	0° m)		morning set	14603 Jul 11 04:10	21°5944'16	
	Ü	•		Č	14603 Jul 16 11:31	$0^{\circ}\Omega$	
superior conj	14602 Aug 14 16:34	5° m 43'12	-1°26'22	max. Earth dist.	14603 Jul 20 12:32	6° Ω 24'39	1.44067 AU
minimum elong	14602 Aug 14 23:13	6° Mg 12'05				5 002 137	
evening rise	14602 Aug 14 23:13	25° Mp 27'51	1 2001	superior conj	14603 Jul 26 15:16	16° Ω 19'44	_1°55'46
=	_						
asc. node	14602 Aug 25 12:37	25° Mp 06'38		minimum elong	14603 Jul 26 22:33	16° Ω 49'43	1 33 39
	14602 Aug 28 05:01	0° ™	1000000		14603 Aug 03 18:34	0°M) 70 M; 5 411 €	
evening max el	14602 Sep 10 19:08	20° £ 54'38	18°08'08	evening rise	14603 Aug 08 08:32	7° m 54'16	
retrograde	14602 Sep 17 19:08	24° ≏ 29'12		asc. node	14603 Aug 12 09:13	14° m 52'51	
evening set	14602 Sep 20 00:46	24° ≏ 07'46			14603 Aug 21 21:06	0∘ ⊽	

evening max el	14603 Aug 25 09:00	4° £ 07'32	18°02'32		14604 Jul 26 12:35	0° m/	
retrograde	14603 Aug 31 20:21	7° £ 29'03	10 02 32	asc. node	14604 Jul 29 05:53	بارا 4° ال 023'01	
evening set	14603 Sep 03 10:10	6° £ 56'17		evening max el	14604 Aug 07 23:29	17° Mp 40'02	18°15'17
inferior conj	14603 Sep 09 21:42	1° ⊆ 46'59	1°15'30	retrograde	14604 Aug 14 08:09	21° Mp 02'24	10 15 17
minimum elong	14603 Sep 09 23:41	1° - 41'55	1°14'44	evening set	14604 Aug 17 06:32	20° m) 15'36	
minimum ciong	14603 Sep 11 15:16	30°R MD	1 1444	inferior conj	14604 Aug 23 05:35	14° Mp 49'22	2°08'43
min. Earth dist.	14603 Sep 12 20:06	28° Mp 47'44	0.62030 AU	minimum elong	14604 Aug 23 08:00	14° Mp 42'26	2°07'42
desc. node	14603 Sep 12 20:00	27° M) 33'26	0.02030710	min. Earth dist.	14604 Aug 25 15:36	12° Mp 03'54	0.64181 AU
morning rise	14603 Sep 16 10:43	25° m/42'18		morning rise	14604 Aug 29 07:52	8° m ₀ 30'30	0.01101710
direct	14603 Sep 23 03:02	23° m/ 20'51		desc. node	14604 Aug 31 01:08	7° m)19'31	
direct	14603 Oct 05 21:10	0° ⊽		direct	14604 Sep 04 21:57	5° m) 55'46	
morning max el	14603 Oct 07 06:03	0 = 1° ₽ 19'10	27°58'15	morning max el	14604 Sep 18 16:05	13° m) 54'33	27°33'38
morning max cr	14603 Oct 28 06:40	0°ML	27 36 13	morning max cr	14604 Oct 01 16:57	0° ⊡	27 33 38
asc. node		20°MJ36'01				0 == 0° M	
	14603 Nov 08 11:10 14603 Nov 10 02:56	20 11636 01 23°M57'56			14604 Oct 19 21:30	0 IIL 7° II L29'32	
morning set				morning set	14604 Oct 23 18:41		
Fauth 4:-4	14603 Nov 13 00:10	0° ⊀ ⁷ 5° ∗ 7 20/21	1 21/22 AII	asc. node	14604 Oct 25 07:53	10°M35'34	1 22//7 AII
max. Earth dist.	14603 Nov 15 13:17	5° ∡ ¹29'21	1.31632 AU	max. Earth dist.	14604 Oct 28 11:16	17° M 03'36	1.32667 AU
superior conj	14603 Nov 17 13:40	9° ∡ 754'49	1°16'30	superior conj	14604 Oct 31 19:28	24° M L10'07	0°57'42
minimum elong	14603 Nov 17 11:29	9° × 742'44	1°17'08	minimum elong	14604 Oct 31 17:11	23°M57'52	0°58'05
evening rise	14603 Nov 24 07:16	24° х 44'14	1 1700	minimum ciong	14604 Nov 03 12:01	23 11 G 37 32 0° ∡ 7	0 38 03
evening rise	14603 Nov 26 18:38	24 X 44 14 0°궁		avanina riaa	14604 Nov 07 18:15	9° ∡ 13'50	
11-	14603 Nov 26 18.38 14603 Dec 11 00:43	0 る 25° る 23'53		evening rise		9 x ·13 30	
desc. node				44-	14604 Nov 18 09:09	0°る 12° る 21'15	
	14603 Dec 14 10:51	0°≈ 5°52126	24925146	desc. node	14604 Nov 26 21:48		22052110
evening max el	14603 Dec 19 18:14	5°≈52'26	24°35'46	evening max el	14604 Nov 30 03:50	15° そ 51'35	22°53′18
retrograde	14604 Jan 02 11:14	12°≈42'37		retrograde	14604 Dec 13 06:13	22° る 21'28	
evening set	14604 Jan 07 18:47	11°≈40′26	0.500.45.433	evening set	14604 Dec 17 06:52	21° る 46'10	0.54006.444
min. Earth dist.	14604 Jan 13 06:01	8°≈51'35	0.56045 AU	min. Earth dist.	14604 Dec 24 12:51		0.54826 AU
inferior conj	14604 Jan 15 14:41	7°≈23'05		inferior conj	14604 Dec 25 15:37	17° ⋜ 48'16	
minimum elong	14604 Jan 15 22:42		5°20'51	minimum elong	14604 Dec 25 16:48	17° ප් 46'34	5°57'58
morning rise	14604 Jan 24 04:40	3°≈19'55		morning rise	14605 Jan 03 04:09	13° る 59'33	
direct	14604 Jan 26 12:21	3° ≈ 05'22		direct	14605 Jan 06 04:31	13° පි 38'28	
asc. node	14604 Feb 04 10:00	6° ≈ 57'29		morning max el	14605 Jan 17 16:11	19° ට 08'55	20°58'50
morning max el	14604 Feb 05 10:07	7°≈53'02	19°37'17	asc. node	14605 Jan 21 07:21	23° る 08'44	
	14604 Feb 19 18:13	0° ∀			14605 Jan 26 03:14	0° ≈	
morning set	14604 Feb 22 18:27	5° ¥ 59'04		morning set	14605 Feb 06 02:48	20°≈40′12	
	1460434 01 10 00	2201/00111	0050140		14605 Feb 10 13:53	0° ℋ	
superior conj	14604 Mar 01 18:00	22° H 00'11	0°50'42		14605771 12 11 11	(a)/(a)	1010110
minimum elong	14604 Mar 01 20:33	22°) 12'43	0°50'32	superior conj	14605 Feb 13 11:41	6° ₩ 02'07	
F 4 F	14604 Mar 05 21:32	0° Υ	1.25(0.1.17)	minimum elong	14605 Feb 13 14:15	6° ₩ 15'17	1°12'30
max. Earth dist.						4 60 1 6 4 4 6	
	14604 Mar 08 01:56	4°Υ04'25	1.37694 AU	max. Earth dist.	14605 Feb 18 11:00	16°) €01'18	1.35554 AU
desc. node	14604 Mar 08 01:55	4° Ƴ 04'17	1.37694 AU	evening rise	14605 Feb 22 09:56	23°) 34′27	1.35554 AU
desc. node evening rise	14604 Mar 08 01:55 14604 Mar 11 18:48	4° Υ 04'17 10° Υ 45'27	1.37694 AU		14605 Feb 22 09:56 14605 Feb 22 22:25	23°) 34′27 24°) 32′22	1.35554 AU
	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41	4° Υ 04'17 10° Υ 45'27 0° ႘	1.3/694 AU	evening rise	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39	23°¥34'27 24°¥32'22 0° °	1.35554 AU
evening rise	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44	4°Y04'17 10°Y45'27 0°B 0°用		evening rise desc. node	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31	23°¥34'27 24°¥32'22 0°℃ 0°8	
evening rise	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24	4°Y04'17 10°Y45'27 0°B 0°瓜 1°瓜20'14		evening rise desc. node evening max el	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57	23°¥34'27 24°¥32'22 0°℃ 0°8 15°809'23	1.35554 AU 26°19'50
evening rise evening max el retrograde	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11	4°Y04'17 10°Y45'27 0°႘ 0°Ⅲ 1°Ⅲ20'14 8°Ⅲ20'38		evening rise desc. node evening max el retrograde	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25	23° ₩34'27 24° ₩32'22 0° Ψ 0° ₩ 15° ₩09'23 22° ₩30'09	
evening rise evening max el retrograde asc. node	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58		evening rise desc. node evening max el retrograde evening set	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46	23° ₭34'27 24° ₭32'22 0° ℉ 0° ₭ 15° ₭09'23 22° ₭30'09 19° ₭58'25	
evening rise evening max el retrograde asc. node evening set	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39	25°12'27	evening rise desc. node evening max el retrograde evening set asc. node	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55	23° ₭34'27 24° ₭32'22 0° ℉ 0° ௧ 15° ௧09'23 22° ௧30'09 19° ௧58'25 18° ♉53'16	26°19'50
evening rise evening max el retrograde asc. node	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22		evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21	23° \ 34'27 24° \ 32'22 0° \ \ 0° \ \ 15° \ \ 30'923 22° \ \ 30'09 19° \ \ 58'25 18° \ \ 53'16 15° \ \ 42'23	26°19'50 0.66897 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist.	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51 14604 May 09 07:19	4°Υ04'17 10°Υ45'27 0°Β 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°RΒ	25°12'27 0.68057 AU	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 20:33	23° \ 34'27 24° \ 32'22 0° \ \ 0° \ \ 15° \ \ 30'923 22° \ \ 30'09 19° \ \ 58'25 18° \ \ 53'16 15° \ \ 42'23 13° \ \ 30'18	26°19'50 0.66897 AU 1°24'35
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51 14604 May 09 07:19 14604 May 09 18:19	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R႘ 29°႘24'01	25°12'27	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41	23° \ 34'27 24° \ 32'22 0° \ \ 0° \ \ 15° \ \ 30'923 22° \ \ 30'09 19° \ \ 58'25 18° \ \ 53'16 15° \ \ 42'23 13° \ \ 33'18 13° \ \ 36'01	26°19'50 0.66897 AU
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R႘ 29°႘24'01 29°႘31'05	25°12'27 0.68057 AU	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41 14605 Apr 29 15:32	23°\dash34'27 24°\dash32'22 0°\gamma 0°\dash30'09 15°\dash30'09 19°\dash53'16 15°\dash42'23 13°\dash30'18 13°\dash36'01 7°\dash47'12	26°19'50 0.66897 AU 1°24'35
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41	4°Υ04'17 10°Υ45'27 0°႘ 0°Ⅲ 1°Ⅲ20'14 8°Ⅲ20'38 7°Ⅲ13'58 5°Ⅲ54'39 1°Ⅲ03'22 30°R႘ 29°႘24'01 29°႘31'05 23°႘30'03	25°12'27 0.68057 AU 2°07'00	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 20 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12	23°\dash34'27 24°\dash32'22 0°\gamma 0°\dash30'09 15°\dash30'09 19°\dash53'16 15°\dash42'23 13°\dash30'18 13°\dash36'01 7°\dash47'12 6°\dash51'10	26°19'50 0.66897 AU 1°24'35 1°23'20
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R႘ 29°႘24'01 29°႘31'05	25°12'27 0.68057 AU 2°07'00	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41 14605 Apr 29 15:32	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57	26°19'50 0.66897 AU 1°24'35
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 11:51 14604 May 09 07:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R႘ 29°႘24'01 29°႘31'05 23°႘30'03 22°႘15'33 26°႘06'23	25°12'27 0.68057 AU 2°07'00	evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 29 03:55 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38	26°19'50 0.66897 AU 1°24'35 1°23'20
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51 14604 May 09 07:19 14604 May 09 18:19 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°П54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π	25°12'27 0.68057 AU 2°07'00 2°05'33	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 23 14:24	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$I	26°19'50 0.66897 AU 1°24'35 1°23'20
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 15 05:41 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°	25°12'27 0.68057 AU 2°07'00 2°05'33	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 29 03:55 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$10°\\$15'04	26°19'50 0.66897 AU 1°24'35 1°23'20
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51 14604 May 09 07:19 14604 May 09 18:19 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π 7°П45'24 12°П47'44	25°12'27 0.68057 AU 2°07'00 2°05'33	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 23 14:24	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$I	26°19'50 0.66897 AU 1°24'35 1°23'20
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	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 08 11:51 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 15 05:41 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 23 14:24 14605 May 30 03:05	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$10°\\$15'04	26°19'50 0.66897 AU 1°24'35 1°23'20
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	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 29 08:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π 7°П45'24 12°П47'44	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 23 14:24 14605 May 30 03:05	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$10°\\$15'04	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18
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	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 29 08:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33 14604 Jun 18 22:32	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π 7°П45'24 12°П47'44 0°©	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 19 03:55 14605 Apr 22 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 23 14:24 14605 May 30 03:05 14605 Jun 11 17:26	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$1 10°\\$115'04 0°\\$	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18
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	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33 14604 Jun 18 22:32 14604 Jun 19 07:38	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π 7°Π45'24 12°Π47'44 0°፵ 0°፵35'02	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34 -0.7m	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 22 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 30 03:05 14605 Jun 11 17:26	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$30'18 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$1 10°\\$\\$15'04 0°\\$5	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18
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	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 07:19 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33 14604 Jun 18 22:32 14604 Jun 19 07:38	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π 7°Π45'24 12°Π47'44 0°፵ 0°፵35'02	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34 -0.7m 1.45334 AU	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 22 01:21 14605 Apr 23 20:33 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 30 03:05 14605 Jun 11 17:26	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$1 10°\\$15'04 0°\\$5	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18 -2°09'55 2°10'46
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.	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 11:51 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33 14604 Jun 18 22:32 14604 Jun 19 07:38 14604 Jul 02 04:42	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R႘ 29°႘24'01 29°႘31'05 23°႘30'03 22°႘15'33 26°႘06'23 0°Π 7°Π45'24 12°Π47'44 0°Ϣ 0°Ϣ35'02 20°Ѿ35'11	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34 -0.7m 1.45334 AU -2°12'19	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 09 07:31 14605 May 22 00:26 14605 May 23 14:24 14605 May 30 03:05 14605 Jun 11 17:26	23° \ 34'27 24° \ 32'22 0° \ Y 0° \ S 15° \ S09'23 22° \ S30'09 19° \ S58'25 18° \ S53'16 15° \ S42'23 13° \ S30'18 13° \ S36'01 7° \ S47'12 6° \ S51'10 10° \ S18'57 27° \ S32'38 0° \ II 10° \ II 15'04 0° \ S 5° \ S09'24 4° \ S50'52 5° \ S06'25	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18 -2°09'55 2°10'46
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.	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 11:51 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33 14604 Jun 18 22:32 14604 Jun 19 07:38 14604 Jul 02 04:42	4°Υ04'17 10°Υ45'27 0°႘ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R႘ 29°႘24'01 29°႘31'05 23°႘30'03 22°႘15'33 26°႘06'23 0°Π 7°Π45'24 12°Π47'44 0°᠑ 0°೨35'02 20°೨35'11	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34 -0.7m 1.45334 AU -2°12'19	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	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 02 07:31 14605 May 22 00:26 14605 May 23 14:24 14605 May 30 03:05 14605 Jun 11 17:26 14605 Jun 15 00:45 14605 Jun 14 20:00 14605 Jun 14 23:59 14605 Jun 30 19:08	23° \ 34'27 24° \ 32'22 0° \ \ 0° \ \ 15° \ \ 09'23 22° \ \ 30'09 19° \ \ 58'25 18° \ \ 53'16 15° \ \ 42'23 13° \ \ 30'18 13° \ \ 36'01 7° \ \ 47'12 6° \ \ 51'10 10° \ \ 18'57 27° \ \ 32'38 0° \ \ 10° \ \ 10° \ \ 10° \ \ 5° \ \ 909'24 4° \ \ 950'52 5° \ \ 906'25 29° \ \ 953'01	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18 -2°09'55 2°10'46 1.45890 AU
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.	14604 Mar 08 01:55 14604 Mar 11 18:48 14604 Mar 23 09:41 14604 Apr 14 21:44 14604 Apr 16 05:24 14604 Apr 28 07:11 14604 May 02 06:33 14604 May 04 02:58 14604 May 09 11:51 14604 May 09 18:19 14604 May 09 16:09 14604 May 15 05:41 14604 May 18 20:08 14604 May 25 20:55 14604 May 29 08:55 14604 Jun 04 03:35 14604 Jun 07 14:33 14604 Jun 18 22:32 14604 Jun 19 07:38 14604 Jul 02 04:42 14604 Jul 05 15:11 14604 Jul 05 15:11	4°Υ04'17 10°Υ45'27 0°℧ 0°Π 1°Π20'14 8°Π20'38 7°Π13'58 5°Π54'39 1°Π03'22 30°R℧ 29°℧24'01 29°℧31'05 23°℧30'03 22°℧15'33 26°℧06'23 0°Π 7°П45'24 12°П47'44 0°፵ 0°፵35'02 20°፵35'11	25°12'27 0.68057 AU 2°07'00 2°05'33 19°17'34 -0.7m 1.45334 AU -2°12'19	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 superior conj minimum elong max. Earth dist. evening rise	14605 Feb 22 09:56 14605 Feb 22 22:25 14605 Feb 25 22:39 14605 Mar 17 01:31 14605 Mar 29 18:57 14605 Apr 11 16:25 14605 Apr 17 22:46 14605 Apr 22 01:21 14605 Apr 23 18:41 14605 Apr 23 18:41 14605 Apr 29 15:32 14605 May 02 19:12 14605 May 02 07:31 14605 May 22 00:26 14605 May 23 14:24 14605 May 30 03:05 14605 Jun 11 17:26 14605 Jun 15 00:45 14605 Jun 14 20:00 14605 Jun 14 23:59 14605 Jun 30 19:08 14605 Jun 30 19:08	23°\\$34'27 24°\\$32'22 0°\\$ 0°\\$ 15°\\$09'23 22°\\$30'09 19°\\$58'25 18°\\$53'16 15°\\$42'23 13°\\$36'01 7°\\$47'12 6°\\$51'10 10°\\$18'57 27°\\$32'38 0°\\$\\$ 10°\\$\\$15'04 0°\\$5 5°\\$09'24 4°\\$50'52 5°\\$06'25 29°\\$53'01 0°\\$\\$0	26°19'50 0.66897 AU 1°24'35 1°23'20 18°30'18 -2°09'55 2°10'46 1.45890 AU

evening max el retrograde	14605 Jul 21 03:49 14605 Jul 22 11:32 14605 Jul 29 02:31	0° m/ 1° m/23'44 5° m/00'16	18°45'41	evening rise greatest brilliancy	14606 Jun 04 10:35 14606 Jun 10 14:33 14606 Jun 24 01:48	0°© 9°©30'38 29°©56'02	-0.7m
evening set	14605 Aug 01 09:53	3° m 57'32			14606 Jun 24 02:52	$0^{\circ}\Omega$	
	14605 Aug 05 14:15	30°R€	2042140	asc. node	14606 Jul 02 23:27	12° Ω 06′28	10022142
inferior conj minimum elong	14605 Aug 07 00:04 14605 Aug 07 02:02	28°Ω16'30 28°Ω10'20	2°43'49 2°42'49	evening max el retrograde	14606 Jul 05 19:00 14606 Jul 13 00:21	15° Ω 13'01 19° Ω 15'54	19°32'43
min. Earth dist.	14605 Aug 08 20:02	25° Ω 59'34	0.66024 AU	evening set	14606 Jul 16 17:18	17° Ω 56'09	
morning rise	14605 Aug 12 17:16	21° Q 51'34		inferior conj	14606 Jul 22 01:57	12° Ω 01′52	3°03'41
desc. node	14605 Aug 17 22:37	19° Ω 16'59		minimum elong	14606 Jul 22 03:04	11° Ω 58'11	3°02'44
direct morning max el	14605 Aug 19 00:39 14605 Sep 01 03:31	19° Ω 12'34 26° Ω 59'00	26°38'57	min. Earth dist. morning rise	14606 Jul 23 07:41 14606 Jul 27 12:19	10° Ω 23'21 5° Ω 36'49	0.67465 AU
morning max or	14605 Sep 03 23:18	0° m)	20 3037	direct	14606 Aug 02 10:00	3° Ω 02'17	
	14605 Sep 25 08:17	0∘ ⊽		desc. node	14606 Aug 04 20:05	3° Ω 24'35	
morning set	14605 Oct 06 23:11	20° Ω 29'06	1 2 1221 1 1 1	morning max el	14606 Aug 14 14:26		25°23'07
max. Earth dist.	14605 Oct 10 23:39 14605 Oct 11 20:14	28° £ 17'13 0° I L	1.34231 AU		14606 Aug 30 05:27 14606 Sep 17 23:09	0° ⴀ 0°₥	
asc. node	14605 Oct 12 04:32	0° IL 41'43		morning set	14606 Sep 19 12:36	ა _ 2° ჲ 47'09	
				max. Earth dist.	14606 Sep 23 02:30	9° ჲ 21'33	1.36262 AU
superior conj	14605 Oct 15 19:08	8°M05'25	0°33'09				
minimum elong	14605 Oct 15 17:28 14605 Oct 23 03:59	7°M56'41 23°M38'26	0°33'23	superior conj minimum elong	14606 Sep 29 09:48	21° ♀ 33'15 21° ♀ 32'11	0°03'21 0°03'35
evening rise	14605 Oct 26 05:42	23 1163820 0° √ 1		behind sun begin	14606 Sep 29 09:35 14606 Sep 29 03:23	21° 2 3211 21° 2 01'17	0 03 33
evening max el	14605 Nov 11 19:11	26° ₹ '00'43	21°15'45	behind sun end	14606 Sep 29 15:48	22° ₾ 03'08	
desc. node	14605 Nov 13 19:01	27° ∡ ¹49'15		asc. node	14606 Sep 29 01:08	20° ჲ 50'09	
. 1	14605 Nov 16 21:50	0°る			14606 Oct 03 14:04	0°M	
retrograde evening set	14605 Nov 23 17:20 14605 Nov 26 11:01	1°る55'37 1°る38'12		evening rise	14606 Oct 07 10:16 14606 Oct 19 12:06	7°M52'04 0°ズ	
evening sec	14605 Dec 01 02:23	30°R ✓		evening max el	14606 Oct 24 23:47		19°55'25
inferior conj	14605 Dec 05 07:02	27° ∡ ¹45'53	-5°36'44	desc. node	14606 Oct 31 16:20	11° ∡ ′21′08	
minimum elong	14605 Dec 04 23:31	27° х 56'29	5°34'32	retrograde	14606 Nov 04 07:05	11° х 58'15	
min. Earth dist. morning rise	14605 Dec 05 18:40 14605 Dec 13 12:31	27° х 29′28 23° х 55′43	0.54455 AU	evening set inferior conj	14606 Nov 06 07:15 14606 Nov 15 03:12	11° ∡ 747'28 7° ∡7 47'54	1°10'18
direct	14605 Dec 17 11:57	23°×33°43		minimum elong	14606 Nov 14 17:14		4°15'21
morning max el	14605 Dec 30 08:45	29° ∡ ³34'37	22°40'02	min. Earth dist.	14606 Nov 17 02:23	6° ∡ ¹35′56	0.55036 AU
	14605 Dec 30 19:18	0°ठ		morning rise	14606 Nov 23 01:52	3° ∡ ³36'35	
asc. node	14606 Jan 08 04:37	10°る28'59		direct	14606 Nov 28 00:34	2° × ⁷ 42'58	24920129
morning set	14606 Jan 18 23:39 14606 Jan 21 13:58	0° ≈ 5° ≈ 25'51		morning max el asc. node	14606 Dec 11 18:10 14606 Dec 26 01:47	9° х ⁷ 31'40 28° х ⁷ 41'07	24-29-28
morning sec	11000 0001 21 15.50	5 10 25 51		age. Hour	14606 Dec 26 20:04	0°₹	
superior conj	14606 Jan 28 13:34	20° ≈ 25'13	1°27'12	morning set	14607 Jan 06 01:57	20° පි 09'18	
minimum elong	14606 Jan 28 15:29	20°≈35'27	1°27'46		14607 Jan 10 14:11	0° ≈	
max. Earth dist.	14606 Feb 01 02:31 14606 Feb 02 03:30	27°≈51'43 0°) €	1.33741 AU	superior conj	14607 Jan 12 20:50	5° ≈ 00'18	1°35'39
evening rise	14606 Feb 05 15:15	6° ¥ 58'30		minimum elong	14607 Jan 12 21:47	5°≈05'27	1°36'31
desc. node	14606 Feb 09 19:00	14° ¥ 51'35		max. Earth dist.	14607 Jan 15 01:45	9° ≈ 48'16	1.32366 AU
	14606 Feb 18 13:39	0°Υ 200 0 0 4 6120	25000110	evening rise	14607 Jan 20 07:21	20°≈48'06	
evening max el	14606 Mar 12 08:31 14606 Mar 13 15:58	28° Y 46'20 0° と	27°09'10	desc. node	14607 Jan 24 23:44 14607 Jan 27 15:39	0° ∺ 4° ∺ 56'04	
retrograde	14606 Mar 25 19:54	6° 8 15'48		dese. Hode	14607 Feb 12 13:03	0° Υ	
evening set	14606 Apr 01 10:41	3° 8 44'19		evening max el	14607 Feb 22 20:50	11° Y ′59'28	27°33'26
	14606 Apr 05 08:48	30° ₹ Υ		retrograde	14607 Mar 08 16:24	19° Y ′27'36	
min. Earth dist. asc. node	14606 Apr 05 08:23 14606 Apr 06 01:19	0° 8 01'10 29° Υ 14'13	0.65335 AU	evening set min. Earth dist.	14607 Mar 15 12:19 14607 Mar 19 07:04	17° Y '03'32 13° Y '49'27	0.63432 AU
inferior conj	14606 Apr 07 15:56	29 γ 14 13 27° Υ 25'08	0°30'19	inferior conj	14607 Mar 22 01:37	13 γ 4927 11° Υ 01'07	
minimum elong	14606 Apr 07 15:07	27° Y ′27'27	0°29'37	minimum elong	14607 Mar 22 02:48	10° Ƴ 58'09	0°36'00
morning rise	14606 Apr 13 21:14	21° Y ′54'40		asc. node	14607 Mar 23 22:47	9° Y ′09'52	
direct	14606 Apr 16 15:14	21° Y 14'16 24° Y 31'37	17050140	morning rise	14607 Mar 28 19:45	5° Υ 45'39 5° Υ 17'27	
morning max el	14606 Apr 22 23:03 14606 Apr 27 13:13	24°(731'3/ 0° と	17°59'48	direct morning max el	14607 Mar 31 05:30 14607 Apr 06 16:43	5°γ1/2/ 8° Υ 35'46	17°46'40
desc. node	14606 May 08 21:12	17° 8 39'15		mua vi	14607 Apr 00 10:43	0° 8	1, 10 10
morning set	14606 May 11 01:49	21° 8 14'39		morning set	14607 Apr 23 03:05	3° 8 30'24	
	14606 May 16 10:43	Π $^{\circ}0$		desc. node	14607 Apr 25 17:53	7° 8 59'22	
superior conj	14606 May 25 12:33	14° ∏ 30'46	-1°48'06	superior conj	14607 May 05 17:45	24° 8 43'02	-1°13'22
minimum elong	14606 May 25 03:40		1°48'17	minimum elong	14607 May 05 17:45	24° 8 13'47	
max. Earth dist.	14606 May 28 19:51	19° Ⅱ 42′23	1.45699 AU	-	14607 May 08 23:57	0°Щ	

max. Earth dist.	14607 May 11 14:25	4° ∏ 09'41	1.44787 AU	minimum along	14609 Apr 15 10:20	5° 8 47'45	0°34'15
	14607 May 11 14:25	18° I 54'35	1.44/8/ AU	minimum elong max. Earth dist.	14608 Apr 15 19:29	18° 8 13'44	0 34 13 1.43249 AU
evening rise	14607 May 21 01:23 14607 May 28 09:06	10 п о4 ээ			14608 Apr 23 05:46	28° 8 45'25	1.43249 AU
evening max el	14607 Jun 18 20:42	0 ୬ 29° ୭ 04'21	20°34'28	evening rise	14608 Apr 29 19:51 14608 Apr 30 14:57	28 O 43 23 0° Ⅱ	
asc. node	14607 Jun 19 20:22	0°Ω01'20	20 34 28		•	0°€	
asc. node	14607 Jun 19 20.22	0°Ω		evening max el	14608 May 21 01:22 14608 May 31 16:42	12° © 55'44	21°47'39
retrograde	14607 Jun 26 23:17	3° Ω 43'54		asc. node	14608 Jun 05 17:23	17°500'52	21 4/39
evening set	14607 Jul 20 23:17 14607 Jul 01 02:33	2°Ω06'50		retrograde	14608 Jun 09 21:31	17 \$300 32 18°\$518'29	
evening set	14607 Jul 03 06:36	2 8.0 0 30 30° ₹ 5		evening set	14608 Jun 14 11:46	16°\$24'45	
inferior conj	14607 Jul 06 08:36	26°900'36	3°10'41	inferior conj	14608 Jun 19 17:47	10°508'01	3°06'20
minimum elong	14607 Jul 06 08:43	26°900'12	3°09'42	minimum elong	14608 Jun 19 16:57	10°50801	3°05'14
min. Earth dist.	14607 Jul 07 00:27	25°906'05	0.68450 AU	min. Earth dist.	14608 Jun 19 20:15	9°959'24	0.68958 AU
morning rise	14607 Jul 11 14:36	19° © 39'15	0.06430 AU	morning rise	14608 Jun 24 21:56	3°952'38	0.08938 AU
direct	14607 Jul 17 14:30	17° © 16'32		direct	14608 Jun 29 19:31	1° 9 3238	
desc. node	14607 Jul 22 17:28	17 \$310 32 19°\$19'46		desc. node	14608 Jul	6°936'26	
morning max el	14607 Jul 28 00:52	23°951'27	23°56'00	morning max el	14608 Jul 09 12:51	7° 9 30'27	22°26'49
morning max er	14607 Jul 28 00:32 14607 Aug 02 12:05	23 9 31 27	23 30 00	morning max er	14608 Jul 27 00:18	0°Ω	22 20 49
	14607 Aug 02 12:03	0° m		morning set	14608 Aug 12 00:58	24° Ω 37'22	
morning set	14607 Aug 23 14.40 14607 Sep 01 06:34	14° m) 13'18		morning set	14608 Aug 15 07:31	0°m)	
max. Earth dist.	•	20° m) 44'56	1.38588 AU	max. Earth dist.	•	-•	1.40948 AU
max. Earm dist.	14607 Sep 05 00:44 14607 Sep 10 03:17	ე∘ ഹ	1.36366 AU	max. Earth dist.	14608 Aug 17 01:01	2° Mp 53'40	1.40948 AU
	1400/ Sep 10 03.1/	0 ==		superior conj	14608 Aug 24 21:14	16° Mp 31'11	1006127
superior conj	14607 Sep 12 11:57	4° £ 25'31	0020120	minimum elong	14608 Aug 25 02:22	16° m 54'14	1°06'00
minimum elong	14607 Sep 12 11:37 14607 Sep 12 14:07	4 = 25 51 4° £ 35'47	0°30'16	minimum clong	14608 Aug 23 02.22 14608 Sep 01 05:30	0° ⊽	1 00 00
asc. node	14607 Sep 12 14:07 14607 Sep 15 21:43	4 = 3347 10° £ 57'34	0 30 10	asc. node	14608 Sep 01 03:30	0° ⊆ 59'41	
evening rise	14607 Sep 21 10:32	10 <u>□</u> 3734 21° <u>□</u> 48'32		evening rise	14608 Sep 04 01:25	5° £ 18'33	
evening rise	14607 Sep 21 10:32 14607 Sep 25 16:03	0°M		evening rise	14608 Sep 19 03:54	0°M	
evening max el	14607 Oct 07 18:26	18°ML29'17	18°56'50	evening max el	14608 Sep 19 03:34 14608 Sep 19 23:45	0°M51'54	18°19'59
retrograde	14607 Oct 16 11:41	22°M52'19	18 30 30	retrograde	14608 Sep 27 11:47	4°M40'38	10 1939
evening set	14607 Oct 18 08:46	22°M40'55		evening set	14608 Sep 29 13:19	4°M24'00	
desc. node	14607 Oct 18 08:40	22°MJ38'19		desc. node	14608 Oct 04 11:11	1°M50'45	
inferior conj	14607 Oct 18 13:43	18°M23'38	2024117	desc. node	14608 Oct 04 11:11 14608 Oct 06 20:00	1 11€30 43 30°RΩ	
minimum elong	14607 Oct 26 10:18	18°MJ34'57	2°31'05	inferior conj	14608 Oct 00 20:00 14608 Oct 07 03:05	29° £ 45'28	0°50'47
min. Earth dist.	14607 Oct 20 09:31 14607 Oct 29 14:28	16°ML20'59	0.56455 AU	minimum elong	14608 Oct 07 03:03	29° £ 43′28 29° £ 49′23	0°49'36
morning rise	14607 Nov 03 08:01	13°MJ37'46	0.30433 AU	min. Earth dist.	14608 Oct 07 01.10 14608 Oct 10 09:37	29 2 49 23 27° 2 05'02	0.58446 AU
direct	14607 Nov 09 01:56	13 1163740 12°ML19'44		morning rise	14608 Oct 10 09:34	27 ≅ 03 02 24° £ 22'41	0.36440 AU
morning max el	14607 Nov 23 05:32	12 IIC1944 19°M35'55	26°09'01	direct	14608 Oct 20 16:57	24 ■ 22 41 22° Ω 37'54	
morning max er	14607 Dec 02 01:48	19 IIC33 33 0° ∡ 7	20 09 01	direct	14608 Nov 03 17:38	0°M	
aga mada	14607 Dec 12 22:52	0 x . 17° ∡ 132'17		mamina may al	14608 Nov 04 00:19	0°11L 0°11L16′09	27°21'19
asc. node	14607 Dec 12 22:32 14607 Dec 19 06:56	17 x ·3217		morning max el		0° √	27 21 19
morning set	14607 Dec 19 06.36 14607 Dec 21 12:57	0 3 4° 3 46′04		asc. node	14608 Nov 25 03:31 14608 Nov 28 19:50	0 x. 6° x751'51	
morning set	1400/ Dec 21 12.3/	4 04004				19° x '31'31	
aumorior comi	14607 Dec 28 07:13	19° る 41'04	1°37'55	morning set	14608 Dec 04 21:15 14608 Dec 09 19:54	0° る	
superior conj	14607 Dec 28 07:05		1°38'56		14008 Dec 09 19.34	0.0	
minimum elong max. Earth dist.	14607 Dec 28 07:03	19 3 4018	1.31486 AU	superior conj	14608 Dec 11 18:46	4°る21'50	1024115
max. Earm dist.			1.31460 AU	1 3			
avanina riaa	14608 Jan 01 23:46	0° ≈ 4° ≈ 56'15		minimum elong max. Earth dist.	14608 Dec 11 17:38	4°る15'28 4°る01'50	1°35'13
evening rise desc. node	14608 Jan 04 07:25	4°≈30°13 24°≈39'40			14608 Dec 11 15:11	19° る 17'01	1.31116 AU
desc. node	14608 Jan 14 12:22 14608 Jan 17 15:28	24 ≈3940 0° ∺		evening rise	14608 Dec 18 13:04 14608 Dec 23 17:59	0°≈	
evening max el	14608 Feb 05 05:35	24° 升 35'42	27926119	desc. node	14608 Dec 31 09:10	0 ∞ 13°≈54'20	
evening max er	14608 Feb 12 08:48	24 γ (3342 0° γ	27 20 16	desc. node	14609 Jan 11 11:10	0°)	
retrograde	14608 Feb 12 04:39	1° Υ 56'07		evening max el	14609 Jan 17 07:55	6° ∺ 23'30	26°44'24
renograde	14608 Feb 25 16:13	1 1 30 0 / 30°R 		retrograde	14609 Jan 31 07:20	13° ¥ 33'56	20 44 24
avanina aat	14608 Feb 26 00:50	29° ¥ 46′57		evening set	14609 Feb 06 20:50	13 X 33 30	
evening set min. Earth dist.	14608 Feb 29 19:42	26° H 55'51	0.61296 AU	min. Earth dist.		9°) (08'42	0.59088 AU
		24°\(\chi\)09'23		inferior conj	14609 Feb 10 21:43 14609 Feb 14 02:14	6° H 40'09	
inferior conj	14608 Mar 03 22:17	24°\(\text{10923}\)				6°) €25'44	
minimum elong	14608 Mar 04 02:23		1 32 33	minimum elong	14609 Feb 14 09:38		3 1/40
asc. node	14608 Mar 09 20:16	19° ¥ 46'09 19° ¥ 11'58		morning rise	14609 Feb 22 01:42	2°) 03'47 1°) 49'13	
morning rise	14608 Mar 11 07:02			direct	14609 Feb 24 01:54		
direct	14608 Mar 13 10:30	18°¥52′20	17051124	asc. node	14609 Feb 24 17:43	1° ¥ 50′50	10015142
morning max el	14608 Mar 20 09:21	22° ¥ 22'18	17°51'34	morning max el	14609 Mar 03 21:24	5°) 41′24	18°15'43
	14608 Mar 26 07:40	0° Υ			14609 Mar 19 05:47	0°Υ 20122	
morning set	14608 Apr 05 01:04	16° Y 44'10		morning set	14609 Mar 19 13:54	0° Ƴ 38'22	
desc. node	14608 Apr 11 14:29	28° Y 28'13		·	14600 14 20 02 02	1000001106	0002102
	14608 Apr 12 11:21	0°8		superior conj	14609 Mar 29 02:05	18° Y 21'36	0°03'03
	14600 : 15 55	cot 10	002.45	minimum elong	14609 Mar 29 02:17	18° Y 22'32	0°02'48
superior conj	14608 Apr 15 22:37	6° 8 01'13	-0°34'14	behind sun begin	14609 Mar 28 18:56	17° Ƴ 49'13	

behind sun end	14609 Mar 29 09:39	18° Ƴ 55'46		minimum elong	14610 Mar 12 01:51	1° Ƴ 40'43	0°34'51
desc. node	14609 Mar 29 11:02	19° Y ′02'02		desc. node	14610 Mar 16 07:32	9° Ƴ 36'25	
	14609 Apr 04 16:46	9° 8		max. Earth dist.	14610 Mar 18 23:00	14° Y 23'20	1.38996 AU
max. Earth dist.	14609 Apr 05 16:28	1° 8 40'55	1.41243 AU	evening rise	14610 Mar 22 18:33	21° Y 03'24	
evening rise	14609 Apr 10 08:37	9° 8 27'04		_	14610 Mar 28 03:16	0°B	
Č	14609 Apr 23 15:18	0°II			14610 Apr 17 16:05	0°II	
evening max el	14609 May 14 08:29	26° Ⅱ 48'03	23°07'36	evening max el	14610 Apr 26 22:10	10° Ⅱ 41'16	24°28'22
evening max er	14609 May 17 22:36	0°95	25 07 50	retrograde	14610 May 08 10:31	17° II 25'42	24 2022
aca mada	•	2° © 48'59		•	•	17 Ⅱ 23 4 2 17° Ⅱ 07'24	
asc. node	14609 May 23 14:30			asc. node	14610 May 10 11:44		
retrograde	14609 May 24 17:42	2° © 54'42		evening set	14610 May 13 23:42	15° Ⅲ 05'01	
evening set	14609 May 29 19:22	0°9546'05		min. Earth dist.	14610 May 18 12:46	9° ∏ 52'46	0.68526 AU
	14609 May 30 15:12	30°Ŗ Ⅱ		inferior conj	14610 May 19 11:56	8° Ⅲ 34'59	2°26'17
min. Earth dist.	14609 Jun 03 17:03	24° Ⅲ 57'18	0.68982 AU	minimum elong	14610 May 19 09:52	8° Ⅱ 41'57	2°24'53
inferior conj	14609 Jun 04 03:32	24° Ⅲ 21′01	2°51'29	morning rise	14610 May 24 20:10	2° Ⅲ 35′22	
minimum elong	14609 Jun 04 01:55	24° Ⅲ 26′34	2°50'12	direct	14610 May 28 17:05	1° Ⅱ 09'39	
morning rise	14609 Jun 09 08:25	18° Ⅱ 12'58		morning max el	14610 Jun 05 04:50	5° Ⅱ 20'10	19°51'56
direct	14609 Jun 13 17:25	16° Ⅲ 26'54		desc. node	14610 Jun 12 08:55	13° Ⅲ 54'43	
morning max el	14609 Jun 22 05:27	21° Ⅱ 19'58	21°03'33		14610 Jun 23 12:42	0°©	
desc. node	14609 Jun 25 11:53	24° I 53'40	21 03 33	morning set	14610 Jul 01 22:55	12°9547'50	
desc. Hode	14609 Jun 29 14:07	0°95		morning set	14610 Jul 12 23:43	0°Ω	
				E 4 E 4			1 44604 411
	14609 Jul 20 05:28	0° N		max. Earth dist.	14610 Jul 12 19:23	29° © 42'47	1.44684 AU
morning set	14609 Jul 22 19:29	4° Ω 00′39				_	
max. Earth dist.	14609 Jul 30 07:07	15° £ 55'35	1.43061 AU	superior conj	14610 Jul 17 21:55	7° Ω 52'56	
				minimum elong	14610 Jul 18 04:04	8° Ω 17'45	2°05'21
superior conj	14609 Aug 06 09:22	27° Ω 41'31	-1°39'55	evening rise	14610 Jul 31 09:27	0° Mp 16'10	
minimum elong	14609 Aug 06 16:44	28° Ω 12'45	1°39'46		14610 Jul 31 05:38	0° m ∕	
	14609 Aug 07 17:55	0° m y		asc. node	14610 Aug 06 11:26	10° m 33'18	
evening rise	14609 Aug 18 02:45	18° m) 11'57		evening max el	14610 Aug 18 02:05	27° m 11'22	18°05'47
asc. node	14609 Aug 19 14:49	20° m 53'00		S	14610 Aug 21 23:53	0∘ <u>v</u>	
	14609 Aug 24 19:20	0∘ ⊽		retrograde	14610 Aug 24 11:18	0° ჲ 31'45	
evening max el	14609 Sep 03 11:35	ა _ 13° ჲ 48'59	18°03'24	retrograde	14610 Aug 26 22:42	30°R.M)	
•	•		16 03 24	avanina aat	•		
retrograde	14609 Sep 10 05:06	17° Ω 16'40		evening set	14610 Aug 27 04:36	29° m 53'28	1040120
evening set	14609 Sep 12 14:00	16° ♀ 50'54		inferior conj	14610 Sep 02 10:24	24° m/36'57	1°40'28
inferior conj	14609 Sep 19 10:20	11° ≏ 52'18		minimum elong	14610 Sep 02 12:43	24° m 30'43	1°39'32
minimum elong	14609 Sep 19 11:26	11° ≏ 49'42	0°35'11	min. Earth dist.	14610 Sep 05 04:01	21°Mp41'04	0.62971 AU
desc. node	14609 Sep 21 08:40	10° ≏ 01'29		desc. node	14610 Sep 08 06:09	18° m 49'04	
min. Earth dist.	14609 Sep 22 13:55	8° ≏ 53'33	0.60710 AU	morning rise	14610 Sep 08 18:41	18° m 24'56	
morning rise	14609 Sep 26 05:49	5° ≏ 59'39		direct	14610 Sep 15 10:43	15° m 56'23	
direct	14609 Oct 02 20:36	3° ₽ 49'46		morning max el	14610 Sep 29 10:49	23° m 57'14	27°51'56
morning max el	14609 Oct 17 02:52	11° ≏ 44'03	27°56'07		14610 Oct 04 21:34	0∘ ⊽	
Č	14609 Oct 31 12:33	0°M₊			14610 Oct 24 21:13	0° M	
asc. node	14609 Nov 15 16:40	26°M31'41		morning set	14610 Nov 02 21:45	17° ™ 07'44	
use. Houe	14609 Nov 17 10:03	0° ⊼		asc. node	14610 Nov 02 13:26	16°M25'42	
morning set	14609 Nov 19 00:54	3° ∡ 20′29		max. Earth dist.	14610 Nov 08 00:19	27°M47'55	1.31995 AU
•			1 21270 ATT	max. Earm dist.		27 11 0 4733	1.31993 AU
max. Earth dist.	14609 Nov 24 22:13	16° ∡ 02'52	1.31278 AU		14610 Nov 09 00:49	0.8.	
	1460031 26 05 26	100 35050	100 444		1461037 10 12 51	20 321121	1000115
superior conj	14609 Nov 26 05:36	18° 🗷 56'59		superior conj	14610 Nov 10 13:51	3° ∡ ′21'31	1°09'15
minimum elong	14609 Nov 26 03:41	18° ∡ ′46′21	1°25′28	minimum elong	14610 Nov 10 11:33	3° ∡ ′08'58	1°09'46
	14609 Dec 01 05:00	0°る		evening rise	14610 Nov 17 09:05	18° ∡ 15′09	
evening rise	14609 Dec 02 22:14	3° る 44'44			14610 Nov 23 01:11	0°₹	
	14609 Dec 16 16:24	0° ≈		desc. node	14610 Dec 05 03:06	20° පි 06'51	
desc. node	14609 Dec 18 06:04	2° ≈ 28'24		evening max el	14610 Dec 11 12:42	27° る 29'36	23°52'50
evening max el	14609 Dec 30 01:45	17° ≈ 17'38	25°29'51		14610 Dec 14 10:01	0° ≈	
retrograde	14610 Jan 12 22:55	24°≈17'01		retrograde	14610 Dec 25 01:27	4°≈12'58	
evening set	14610 Jan 18 20:17	22° ≈ 57'35		evening set	14610 Dec 29 20:22	3° ≈ 23'07	
min. Earth dist.	14610 Jan 23 14:14		0.57034 AU	min. Earth dist.	14611 Jan 04 23:59		0.55429 AU
inferior conj	14610 Jan 26 10:11	18° ≈ 23'18		Darur dist.	14611 Jan 05 15:38	0 ~23 14 30°Rる	5.55 (2) 110
		18°≈07'57		inferior coni		30 KO 29°る15'29	50//122
minimum elong	14610 Jan 26 19:16		4 40 33	inferior conj	14611 Jan 06 21:22		
morning rise	14610 Feb 03 20:59	14°≈08'55		minimum elong	14611 Jan 07 03:12	29°る06'46	3-42.53
direct	14610 Feb 05 23:17	13°≈55'46		morning rise	14611 Jan 15 11:46	25°る19'31	
asc. node	14610 Feb 11 15:09	15° ≈ 38'36		direct	14611 Jan 18 01:08	25° る 03'03	
morning max el	14610 Feb 15 00:46	18° ≈ 20'44	19°00'59		14611 Jan 28 11:33	0° ≈	
	14610 Feb 23 13:06	0° ∀		morning max el	14611 Jan 28 15:23	0° ≈ 09'10	20°09'09
morning set	14610 Mar 03 12:55	14° ¥ 58'14		asc. node	14611 Jan 29 12:32	1° ≈ 02'11	
	14610 Mar 11 04:49	0° Y		morning set	14611 Feb 15 18:40	29° ≈ 33'59	
					14611 Feb 15 23:46	0°) €	
superior conj	14610 Mar 11 23:46	1° Y ′30'45	0°35'07				

17°る44'27

0°≈

14612 Jan 16 09:50

14612 Jan 24 00:09

asc. node

14613 Jan 14 16:12

14613 Jan 15 02:55

morning set

29°る02'41

0°**≈**

superior conj	14613 Jan 21 13:15	13° ≈ 56'38	1°31'33	direct	14613 Nov 19 13:28	24°M05'05	
minimum elong	14613 Jan 21 14:46	14° ≈ 04'53	1°32'16		14613 Dec 02 07:51	0° ∡ 7	
max. Earth dist.	14613 Jan 24 12:21	20° ≈ 16′34	1.33097 AU	morning max el	14613 Dec 03 12:51	1° ∡ °06′28	25°14'19
evening rise	14613 Jan 29 07:52	0° ∺ 09'17		asc. node	14613 Dec 20 04:12	23° х 58′36	
	14613 Jan 29 06:00	0°)			14613 Dec 23 10:37	0°ප	
desc. node	14613 Feb 03 21:14	10°) 46′25		morning set	14613 Dec 30 03:59	13° る 44'23	
	14613 Feb 15 09:04	0° Y					
evening max el	14613 Mar 04 14:55	21° Y '48'50	27°23'02	superior conj	14614 Jan 05 22:06	28° る 35'20	1°37'22
retrograde	14613 Mar 18 06:04	29° Ƴ 18'12		minimum elong	14614 Jan 05 22:35	28° る 38'00	1°38'19
evening set	14613 Mar 24 23:43	26° Ƴ 48'54			14614 Jan 06 13:27	0° ≈	
min. Earth dist.	14613 Mar 28 19:52	23° Y 18'57	0.64561 AU	max. Earth dist.	14614 Jan 07 14:30	2° ≈ 17'31	1.31923 AU
inferior conj	14613 Mar 31 08:23	20° Ƴ 36'11	0°03'35	evening rise	14614 Jan 13 03:40	14° ≈ 07'39	
minimum elong	14613 Mar 31 08:17	20° Ƴ 36′28	0°03'16		14614 Jan 21 08:19	0° ∀	
transit middle	14613 Mar 31 08:17	20° Ƴ 36′28	0°03'16	desc. node	14614 Jan 21 17:53	0°) 43′03	
transit begin	14613 Mar 31 05:17	20° Ƴ 44'36			14614 Feb 10 12:49	0° Υ	
transit end	14613 Mar 31 11:18	20° Y ′28′20		evening max el	14614 Feb 15 01:48	4° Y 47'12	27°34'29
asc. node	14613 Mar 31 03:53	20° Ƴ 48'22		retrograde	14614 Feb 28 23:18	12° Ƴ 13'13	
morning rise	14613 Apr 06 18:51	15° Ƴ 11'55		evening set	14614 Mar 07 20:09	9° Y 54'09	
direct	14613 Apr 09 09:16	14° Y 37'01		min. Earth dist.	14614 Mar 11 14:15	6° Ƴ 51'07	0.62542 AU
morning max el	14613 Apr 15 17:23	17° Y ′53'03	17°52'09	inferior conj	14614 Mar 14 12:56	4° Υ ′01'23	-1°08'19
	14613 Apr 24 16:56	0° 8		minimum elong	14614 Mar 14 15:14	3° Y 55'48	1°07'21
desc. node	14613 May 02 23:27	13° 8 37'36		asc. node	14614 Mar 18 01:19	0° Y 53'36	
morning set	14613 May 03 00:12	13° 8 40'44			14614 Mar 19 07:42	30°₽ 升	
	14613 May 12 21:44	Π $^{\circ}0$		morning rise	14614 Mar 21 13:09	28°) 53′34	
				direct	14614 Mar 23 19:55	28° ∺ 29'31	
superior conj	14613 May 16 16:20	6° Ⅱ 04'30			14614 Mar 28 05:23	0° Y	
minimum elong	14613 May 16 07:38	5° Ⅱ 29'43		morning max el	14614 Mar 30 11:05	1° Y ′51′22	17°46'34
max. Earth dist.	14613 May 21 05:17	13° Ⅱ 16′18	1.45397 AU	morning set	14614 Apr 15 11:00	26° Y 23′13	
	14613 Jun 01 00:02	0 \circ			14614 Apr 17 12:32	0° 8	
evening rise	14613 Jun 01 13:23	0° 9 51'06		desc. node	14614 Apr 19 20:07	4° 8 02'01	
greatest brilliancy	14613 Jun 16 08:49	23° © 04'18	-0.6m				
	14613 Jun 21 07:04	0 \circ Ω		superior conj	14614 Apr 27 07:27	16° 8 44'52	
asc. node	14613 Jun 27 01:46	7° Ω 10'07		minimum elong	14614 Apr 27 01:57	16° 8 21'57	
evening max el	14613 Jun 28 07:25	8° Ω 27'38	19°57'14	max. Earth dist.	14614 May 03 22:27	27° 8 34'36	1.44198 AU
retrograde	14613 Jul 05 20:58	12° Ω 45'05			14614 May 05 10:51	0°П	
evening set	14613 Jul 09 18:16	11° Ω 17'46	2000107	evening rise	14614 May 12 01:37	10° Ⅲ 21'47	
inferior conj	14613 Jul 15 01:28	5° Ω 17'58	3°08'06		14614 May 25 03:46	0.22 0.22	2100420
minimum elong	14613 Jul 15 02:09	5° Ω 15'37	3°07'09	evening max el	14614 Jun 11 06:28	22°5018'29	21°04'20
min. Earth dist.	14613 Jul 16 01:07	3° Ω 58′02	0.67945 AU	asc. node	14614 Jun 13 22:43	24° © 43'12 27° © 16'27	
morning rise	14613 Jul 19 06:40 14613 Jul 20 09:40	30°Rூ 28°♀54'07		retrograde evening set	14614 Jun 19 19:56 14614 Jun 24 03:43	27 \$31027 25°\$32'13	
direct	14613 Jul 26 02:28	26°\$24'11		inferior conj	14614 Jun 29 09:27	19° © 21'03	3°10'08
desc. node	14613 Jul 29 22:34	20 \$2411 27°\$20'14		minimum elong	14614 Jun 29 09:09	19 3 21 03	3°09'07
desc. flode	14613 Aug 03 01:47	0°Ω		min. Earth dist.	14614 Jun 29 19:32	18°546'02	0.68725 AU
morning max el	14613 Aug 06 19:34	3° Ω 25'15	24°46'52	morning rise	14614 Jul 04 14:20	13°901'46	0.00723710
morning max cr	14613 Aug 27 03:38	0° m)	24 40 32	direct	14614 Jul 09 19:03	10°9545'51	
morning set	14613 Sep 11 13:18	25° Mp 06'15		desc. node	14614 Jul 16 19:55	13°952'48	
morning sec	14613 Sep 14 07:07	0∘ ⊽		morning max el	14614 Jul 20 06:28		23°17'43
max. Earth dist.	14613 Sep 15 02:56	1° ≏ 30'04	1.37232 AU		14614 Jul 31 01:09	0°N	
	1				14614 Aug 20 04:19	0° m/	
superior conj	14613 Sep 21 23:21	14° Ω 27'10	-0°10'42	morning set	14614 Aug 23 21:41	6° Mp 07'12	
minimum elong	14613 Sep 22 00:03	14° ≏ 30'32		max. Earth dist.	14614 Aug 28 00:59	13° m 09'01	1.39602 AU
behind sun begin	14613 Sep 21 18:56	14° ≏ 05'36			Ü	•	
behind sun end	14613 Sep 22 05:09	14° ≏ 55'30		superior conj	14614 Sep 04 18:51	27° m 00'31	-0°45'49
asc. node	14613 Sep 23 03:21	16° ≏ 44'26		minimum elong	14614 Sep 04 22:15	27° m 16'18	
	14613 Sep 29 18:15	0°M₊		Č	14614 Sep 06 09:25	0∘ <u>v</u>	
evening rise	14613 Sep 30 08:24	1°M11'12		asc. node	14614 Sep 09 23:54	6° ≙ 49'49	
evening max el	14613 Oct 17 06:44	29°M01'41	19°27'42	evening rise	14614 Sep 14 05:08	14° ≏ 57'24	
	14613 Oct 18 07:18	0°∡7		-	14614 Sep 22 08:06	0° M	
desc. node	14613 Oct 25 18:48	3° ∡ ¹46'40		evening max el	14614 Sep 30 06:27	11° M L00'26	18°38'36
retrograde	14613 Oct 26 21:24	3° ∡ ¹50′22		retrograde	14614 Oct 08 10:09	15° M 07'21	
evening set	14613 Oct 28 18:42	3° ∡ 140′03		evening set	14614 Oct 10 08:23	14° M 54'21	
	14613 Nov 05 17:59	30°RM		desc. node	14614 Oct 12 16:12	14°M06'42	
inferior conj	14613 Nov 06 10:28	29°M33'29	-3°36'08	inferior conj	14614 Oct 18 08:40	10°M28'30	-1°48'55
minimum elong	14613 Nov 06 01:34	29°M47'50	3°32'13	minimum elong	14614 Oct 18 04:14	10°M36'48	1°46'33
min. Earth dist.	14613 Nov 08 21:06	27°M59'00	0.55545 AU	min. Earth dist.	14614 Oct 21 12:13	8°M07'20	0.57244 AU
morning rise	14613 Nov 14 06:19	25°M08'17		morning rise	14614 Oct 25 20:41	5° ™ 26'12	

direct morning max el	14614 Oct 31 21:03 14614 Nov 15 03:08	3°M56'37 11°M23'54	26°43'55	min. Earth dist.	14615 Oct 03 11:06 14615 Oct 07 06:31	19° ♀ 19'22 16° ♀ 33'54	0.59399 AU
morning man vi	14614 Nov 29 13:02	0° ∡ ¹	20 .555	direct	14615 Oct 13 18:06	14° Ω 37'36	
asc. node	14614 Dec 07 01:14	13° ∡ 02'48		morning max el	14615 Oct 28 01:09	22° ≏ 23'19	27°40'50
morning set	14614 Dec 14 14:02	28° ∡ 16'48			14615 Nov 03 19:03	0° M	
	14614 Dec 15 09:11	0°ಕ			14615 Nov 22 14:49	0° ∡ 7	
				asc. node	14615 Nov 23 22:10	2° ₹ ³31'46	
superior conj	14614 Dec 21 09:12		1°37'06	morning set	14615 Nov 28 20:35	12° ∡ ³35'30	
minimum elong	14614 Dec 21 08:37	13° る 13'36	1°38'06	max. Earth dist.	14615 Dec 05 05:14	26° ₹ ¹29'31	1.31122 AU
max. Earth dist.	14614 Dec 21 21:12		1.31258 AU				
evening rise	14614 Dec 28 06:21	28° る 21'40		superior conj	14615 Dec 05 20:41	27° ∡ 55′49	1°30'55
	14614 Dec 29 01:01	0° ≈		minimum elong	14615 Dec 05 19:10	27° ∡ ¹47'25	1°31'49
desc. node	14615 Jan 08 14:36	20°≈15'10			14615 Dec 06 18:53	0° ろ	
	14615 Jan 14 15:04	0° ∀	25012145	evening rise	14615 Dec 12 13:44	12°る46'00	
evening max el	14615 Jan 28 07:59	17° 米 03′16	27°12'47	1 1	14615 Dec 21 03:43	0°≈	
retrograde	14615 Feb 11 07:57 14615 Feb 18 02:05	24°) 20'27 22°) 19'46		desc. node	14615 Dec 26 11:25	9°≈13'39 28°≈28'30	26°16'19
evening set min. Earth dist.	14615 Feb 21 22:30	19° ₩ 35'32	0.60349 AU	evening max el	14616 Jan 10 07:02 14616 Jan 11 23:39	28 ≈ 28 30 0° H	20 10 19
inferior conj	14615 Feb 25 02:53	19 X 53 32		retrograde	14616 Jan 24 06:06	5° ∺ 33'56	
minimum elong	14615 Feb 25 08:25		2°28'19	evening set	14616 Jan 30 13:45	3° ¥ 58′24	
morning rise	14615 Mar 04 18:03	12°) 05'47	2 20 1)	min. Earth dist.	14616 Feb 03 20:27	1° ¥ 21′21	0.58179 AU
asc. node	14615 Mar 04 22:48	12°) €02'45			14616 Feb 05 17:17	30°R≈	
direct	14615 Mar 06 19:29	11°) (48'53		inferior conj	14616 Feb 06 22:38	29° ≈ 05'46	-3°57'27
morning max el	14615 Mar 14 02:13	15° ¥ 27′20	17°59'23	minimum elong	14616 Feb 07 07:07	28° ≈ 50'13	3°54'05
C	14615 Mar 24 04:17	0° Y		morning rise	14616 Feb 15 03:32	24° ≈ 38′23	
morning set	14615 Mar 29 15:54	9° Ƴ 55'30		direct	14616 Feb 17 03:46	24° ≈ 24'53	
desc. node	14615 Apr 06 16:40	24° Y 33'02		asc. node	14616 Feb 19 20:16	24° ≈ 50′17	
				morning max el	14616 Feb 25 11:00	28° ≈ 30′12	18°32'13
superior conj	14615 Apr 08 22:17	28° Y 30'09	-0°17'57		14616 Feb 26 21:01	0°) €	
minimum elong	14615 Apr 08 20:43	28° Y 23′20	0°18'05	morning set	14616 Mar 12 09:32	24°) €01'43	
	14615 Apr 09 18:49	0° 8			14616 Mar 15 11:56	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	14615 Apr 16 11:12	11° 8 21'27	1.42437 AU				
evening rise	14615 Apr 22 02:58	20° 8 32'10		superior conj	14616 Mar 21 09:58	11° Υ 11'57	0°17'25
	14615 Apr 28 04:44	0°II		minimum elong	14616 Mar 21 11:09	11°Υ17'28	0°17'07
	14615 May 19 12:43	0°©	22021114	desc. node	14616 Mar 23 13:10	15° Y 07'02 24° Y 29'26	1 40204 ATT
evening max el asc. node	14615 May 25 00:26 14615 May 31 19:45	6°©10'10 11°©14'32	22°21'14	max. Earth dist.	14616 Mar 28 19:55 14616 Apr 01 01:29	0° 8	1.40304 AU
retrograde	14615 Jun 03 17:29	11 914 32 11°952'12		evening rise	14616 Apr 01 01:29	1° 8 37'05	
evening set	14615 Jun 08 12:26	9°952'07		evening rise	14616 Apr 20 12:38	0°Ⅱ	
inferior conj	14615 Jun 13 19:07	3°931'34	3°01'18	evening max el	14616 May 06 15:13	20° I I03'14	23°42'25
minimum elong	14615 Jun 13 17:56	3°935'42		retrograde	14616 May 17 12:13	26° I I26'28	25 .225
min. Earth dist.	14615 Jun 13 16:07	3°542'01	0.69023 AU	asc. node	14616 May 17 16:55	26° Ⅱ 26'18	
	14615 Jun 16 10:14	30° Ŗ Ⅱ		evening set	14616 May 22 18:49	24° Ⅱ 12'28	
morning rise	14615 Jun 18 23:14	27° Ⅱ 18'54		min. Earth dist.	14616 May 27 12:41	18° Ⅱ 39'19	0.68844 AU
direct	14615 Jun 23 15:29	25° Ⅲ 21′07		inferior conj	14616 May 28 04:31	17° Ⅱ 45′06	2°42'05
	14615 Jul 02 02:21	0ංම		minimum elong	14616 May 28 02:40	17° II 51'26	2°40'45
morning max el	14615 Jul 02 19:56	0°942'58	21°50'14	morning rise	14616 Jun 02 10:30	11° Ⅱ 40′30	
desc. node	14615 Jul 03 17:10	1° 9 37'28		direct	14616 Jun 06 14:23	10° Ⅱ 02'53	
	14615 Jul 24 19:54	0°Ω		morning max el	14616 Jun 14 15:06	14° Ⅲ 36′12	20°31'27
morning set	14615 Aug 04 05:39	16° Ω 04'48		desc. node	14616 Jun 19 14:16	20° Ⅱ 14'40	
max. Earth dist.	14615 Aug 10 03:04	25° Ω 39'06	1.41892 AU		14616 Jun 26 19:50	0°95	
	14615 Aug 12 17:32	0° m)		morning set	14616 Jul 13 15:54	25° © 07'16 0° Ω	
superior aoni	14615 Aug 17 19:43	8° Mp 44'28	1021115	max. Earth dist.	14616 Jul 16 19:11 14616 Jul 22 12:16	9° Ω 03'10	1.43825 AU
superior conj minimum elong	14615 Aug 17 19.43	9° m) 12'03		max. Earth dist.	14010 Jul 22 12.10	9 0603 10	1.43623 AU
asc. node	14615 Aug 27 20:26	26° m) 48'51	1 20 02	superior conj	14616 Jul 28 21:57	19° Ω 29'51	-1°51'57
evening rise	14615 Aug 28 14:51	28° m/ 13'33		minimum elong	14616 Jul 29 05:24	20°Ω00'46	
3	14615 Aug 29 14:01	0∘ ⊽			14616 Aug 04 03:29	0° m)	
evening max el	14615 Sep 13 15:10	23° ₽ 39'50	18°10'34	evening rise	14616 Aug 10 08:54	10° m 47'29	
retrograde	14615 Sep 20 17:51	27° ≏ 17'29		asc. node	14616 Aug 13 17:00	16° m 37'05	
evening set	14615 Sep 22 22:25	26° ₽ 57'22			14616 Aug 21 19:30	0∘ ⊽	
desc. node	14615 Sep 29 13:40	22° ₽ 42'39		evening max el	14616 Aug 27 04:38	6° ≏ 48'59	18°02'08
inferior conj	14615 Sep 30 04:33	22° ≏ 10'16		retrograde	14616 Sep 02 17:14	10° ≙ 11'41	
minimum elong	14615 Sep 30 04:09	22° £ 11′09	0°11'14	evening set	14616 Sep 05 05:46	9° ≏ 40'48	
transit middle	14615 Sep 30 04:09	22° △ 11'09	0°11'14	inferior conj	14616 Sep 11 19:29	4° £ 34'03	1°05'36
transit begin	14615 Sep 30 01:42	22° ₽ 16'31		minimum elong	14616 Sep 11 21:17	4° £ 29'31	1°04'57
transit end	14615 Sep 30 06:36	22° ≏ 05'46		min. Earth dist.	14616 Sep 14 19:20	1° ≏ 34'25	0.61693 AU

	14618 Aug 10 12:39	30°R Ω		retrograde	14619 Jul 15 18:45	21° Ω 48'01	
min. Earth dist.	14618 Aug 11 16:47	28° Ω 33'46	0.65771 AU	evening set	14619 Jul 19 10:16	$20^{\circ}\Omega 30'48$	
morning rise	-	26 δ <i>t</i> 33 40 24° Ω 31'24	0.03//1 AU	=	14619 Jul 24 19:34	20 δι 30 48 14° Ω 38'31	3°01'31
desc. node	14618 Aug 15 13:02	$24^{\circ} \Omega 02'22$		inferior conj	14619 Jul 24 19.34 14619 Jul 24 20:49	$14^{\circ} \Omega 34'23$	3°00'34
	14618 Aug 20 06:13	$21^{\circ}\Omega 52'18$		minimum elong			
direct	14618 Aug 21 21:41	• • • •	26040120	min. Earth dist.	14619 Jul 26 03:24	12° Ω 53'51	0.67280 AU
morning max el	14618 Sep 04 03:15	29° Ω 41'48	26°48'39	morning rise	14619 Jul 30 06:48	8° Ω 13'19	
	14618 Sep 04 10:25	0° m)		direct	14619 Aug 05 06:09	5° Ω 37'35	
	14618 Sep 26 15:00	0∘ ⊽		desc. node	14619 Aug 07 03:42	5° Ω 51'17	
morning set	14618 Oct 09 21:15	23° ≏ 16'31		morning max el	14619 Aug 17 14:11	13° Ω 00′35	25°35'21
	14618 Oct 13 08:04	0° M			14619 Aug 31 08:01	0° m)	
max. Earth dist.	14618 Oct 13 23:50	1°ML18′38	1.33964 AU		14619 Sep 19 08:38	0∘ ত	
asc. node	14618 Oct 14 12:22	2°M21'37		morning set	14619 Sep 22 13:06	5° ≏ 40'49	
				max. Earth dist.	14619 Sep 26 03:48	12° ≏ 22'16	1.35937 AU
superior conj	14618 Oct 18 13:59	10° M .43′35	0°37'15	asc. node	14619 Oct 01 08:56	22° ≏ 29'40	
minimum elong	14618 Oct 18 12:10	10°M34'03	0°37'30				
evening rise	14618 Oct 25 20:59	26° ™ 11'07		superior conj	14619 Oct 02 06:10	24° ₽ 15'45	0°08'11
	14618 Oct 27 16:45	0° ∡		minimum elong	14619 Oct 02 05:39	24° ≏ 13'14	0°08'25
evening max el	14618 Nov 14 21:12	29° ∡ ′09'01	21°29'24	behind sun begin	14619 Oct 02 00:17	23° ≏ 46'18	
	14618 Nov 15 18:40	0°₹		behind sun end	14619 Oct 02 11:02	24° ≏ 40'12	
desc. node	14618 Nov 16 02:39	00'81 ರ °0			14619 Oct 05 02:05	0° M	
retrograde	14618 Nov 27 00:27	5° る 09'48		evening rise	14619 Oct 10 03:54	10°M26'25	
evening set	14618 Nov 29 22:04	4°₹50'34			14619 Oct 20 12:34	0° ∡ ¹	
inferior conj	14618 Dec 08 16:57	0° る 58'26	-5°44'04	evening max el	14619 Oct 27 23:37	9° ∡ ′51′08	20°06'02
minimum elong	14618 Dec 08 10:29	1° る 07'31	5°42'12	desc. node	14619 Nov 02 23:56	14° ∡ ¹08'54	
min. Earth dist.	14618 Dec 08 22:54	0° ರ 50'06	0.54452 AU	retrograde	14619 Nov 07 12:45	15° ∡ ¹06'12	
	14618 Dec 10 10:53	30°Ŗ ⋌ ¹		evening set	14619 Nov 09 14:37	14° ∡ ′54'55	
morning rise	14618 Dec 16 23:32	27° ∡ °09'33		inferior conj	14619 Nov 18 11:27	10° ∡ ′57'10	-4°33'30
direct	14618 Dec 20 19:28	26° ∡ ³37'42		minimum elong	14619 Nov 18 01:22	11° ∡ 12'18	4°29'42
	14618 Dec 30 04:40	0°₹		min. Earth dist.	14619 Nov 20 06:00	9° ∡ 753′26	0.54897 AU
morning max el	14619 Jan 02 12:00	2° る 45'01	22°24'02	morning rise	14619 Nov 26 11:06	6° ∡ 750′19	
asc. node	14619 Jan 10 12:21	12° る 30'25		direct	14619 Dec 01 06:42	5° √ 59'51	
	14619 Jan 20 10:41	0° ≈		morning max el	14619 Dec 14 21:44	12° х 43′24	24°13'19
morning set	14619 Jan 24 06:30	7° ≈ 54'43		asc. node	14619 Dec 28 09:32	0° る 35'22	
					14619 Dec 28 01:05	0°る	
superior conj	14619 Jan 31 07:12	22° ≈ 56'39	1°25'21	morning set	14620 Jan 08 18:27	22° ろ 38'26	
minimum elong	14619 Jan 31 09:14	23°≈07'29	1°25'51	morning sec	14620 Jan 12 03:42	0° ≈	
minimum ciong	14619 Feb 03 16:05	0° ∀	1 23 31		11020 3411 12 03.12	0.70	
max. Earth dist.	14619 Feb 04 01:03	0° ¥ 46'03	1.33986 AU	superior conj	14620 Jan 15 13:46	7° ≈ 29'52	1°34'46
evening rise	14619 Feb 08 11:35	9° X 37'53	1.55700710	minimum elong	14620 Jan 15 14:52	7°≈35'53	
desc. node	14619 Feb 12 02:47	16° ∺ 30'17		max. Earth dist.	14620 Jan 17 23:15	12° ≈ 41'21	1.32542 AU
desc. flode	14619 Feb 19 20:38	10 γ (3017		evening rise	14620 Jan 23 02:14	23°≈23'47	1.32342 AU
	14619 Mar 13 21:13	0°8		evening rise		23 ≈ 2347 0° ∺	
avanina may al	14619 Mar 15 07:57	1° 8 26'40	27°03'18	desc. node	14620 Jan 26 10:31 14620 Jan 29 23:24	6° ∺ 37'08	
evening max el retrograde		8° 8 55'27	27 03 18	desc. node	14620 Feb 13 12:31	0 Υ 3/08	
Č	14619 Mar 28 17:43	6° 8 23'39		avanina may al		0 1 14° Υ 44'22	27°31'46
evening set	14619 Apr 04 07:21		0.65500 ATT	evening max el	14620 Feb 25 20:40	22° Y 12'50	2/3140
min. Earth dist.	14619 Apr 08 05:44	2° 8 35'39	0.65590 AU	retrograde	14620 Mar 10 15:14	19° Y 47'18	
asc. node	14619 Apr 08 08:59	2° 8 26'34 0° 8 02'37	0020124	evening set	14620 Mar 17 10:41	19° γ 4/18 16° γ 29'13	0.63731 AU
inferior conj	14619 Apr 10 11:27			min. Earth dist.	14620 Mar 21 05:45		
minimum elong	14619 Apr 10 10:25	0° 8 05'34	0°38'34	inferior conj	14620 Mar 23 22:47	13° Y 42'00	
	14619 Apr 10 12:22	30°₹ Υ		minimum elong	14620 Mar 23 23:35	13° Y 39'56	0°25'15
morning rise	14619 Apr 16 15:02	24° Y 29'59		asc. node	14620 Mar 25 06:26	12° Y ′21'43	
direct	14619 Apr 19 10:23	23° Y 47'26		morning rise	14620 Mar 30 14:50	8° Y ′24'03	
morning max el	14619 Apr 25 18:22	27° Y ′05'39	18°03'12	direct	14620 Apr 02 01:46	7° ℃ 54'11	
	14619 Apr 28 09:24	0° 8		morning max el	14620 Apr 08 11:53	11° Y 11'33	17°47'32
desc. node	14619 May 11 04:58	19° 8 18'10			14620 Apr 21 10:00	0° 8	
morning set	14619 May 14 05:12	24° 8 11'50		morning set	14620 Apr 25 02:53	6° 8 17'41	
	14619 May 17 19:01	$\Pi^{\circ}0$		desc. node	14620 Apr 27 01:40	9° 8 36'40	
superior conj	14619 May 28 22:05	17° Ⅱ 45'12		superior conj	14620 May 08 00:05	27° 8 48'31	
minimum elong	14619 May 28 13:23	17° Ⅱ 10'59		minimum elong	14620 May 07 16:26	27° 8 17'24	1°18'58
max. Earth dist.	14619 May 31 18:10		1.45776 AU		14620 May 09 08:35	Π °0	
	14619 Jun 05 18:18	0 \circ \odot		max. Earth dist.	14620 May 13 13:22	6° Ⅱ 42'58	1.44968 AU
evening rise	14619 Jun 14 00:40	12° © 46'55		evening rise	14620 May 23 11:50	22° Ⅱ 10'44	
	14619 Jun 14 00:40 14619 Jun 25 07:08	$0^{\circ}\Omega$		evening rise	14620 May 28 15:21	0 \circ \odot	
evening rise greatest brilliancy	14619 Jun 14 00:40	0° Ω 2° Ω 20'32	-0.7m		14620 May 28 15:21 14620 Jun 19 04:19	0 ಂ ${f v}$	
	14619 Jun 14 00:40 14619 Jun 25 07:08 14619 Jun 26 20:49 14619 Jul 05 07:10	0° Ω 2° Ω 20'32 14° Ω 02'22		evening rise evening max el	14620 May 28 15:21	0°© 0°Ω 1°Ω41'16	20°24'22
greatest brilliancy	14619 Jun 14 00:40 14619 Jun 25 07:08 14619 Jun 26 20:49	0° Ω 2° Ω 20'32	-0.7m 19°24'47		14620 May 28 15:21 14620 Jun 19 04:19	0 ಂ ${f v}$	20°24'22

retrograde	14620 Jun 28 17:37	6° Ω 14'37		asc. node	14621 Jun 08 01:04	19° © 13'17	
evening set	14620 Jul 02 19:22	4° Ω 39'59		retrograde	14621 Jun 12 16:07	20° 5 548'36	
	14620 Jul 07 00:44	30° Ŗ ∽		evening set	14621 Jun 17 04:42	18° © 57'13	
inferior conj	14620 Jul 08 01:38	28° © 35'25	3°10'19	inferior conj	14621 Jun 22 10:33	12° © 41'46	3°07'38
minimum elong	14620 Jul 08 01:54	28° © 34'29	3°09'22	minimum elong	14621 Jun 22 09:52	12° © 44'11	3°06'34
min. Earth dist.	14620 Jul 08 19:29	27° © 34'16	0.68340 AU	min. Earth dist.	14621 Jun 22 14:57	12° © 26'27	0.68917 AU
morning rise	14620 Jul 13 08:08	22° © 13'24		morning rise	14621 Jun 27 14:50	6° © 25'21	
direct	14620 Jul 18 20:01	19° 5 348'40		direct	14621 Jul 02 14:16	4° © 16'58	
desc. node	14620 Jul 24 01:04	21° © 31'48		desc. node	14621 Jul 10 22:22	8° © 37'34	
morning max el	14620 Jul 30 00:36	26°530'20	24°09'16	morning max el	14621 Jul 12 12:17	10° 5 08'29	22°39'51
	14620 Aug 02 06:08	$0^{\circ}\Omega$			14621 Jul 28 04:24	$0^{\circ}\Omega$	
	14620 Aug 23 21:36	0° m y		morning set	14621 Aug 15 08:17	27° Ω 48'27	
morning set	14620 Sep 03 10:10	17° m 14'38			14621 Aug 16 16:19	0° m y	
max. Earth dist.	14620 Sep 07 02:26	23° Mp 41'09	1.38237 AU	max. Earth dist.	14621 Aug 20 02:08	5° Mp 42'12	1.40608 AU
	14620 Sep 10 14:00	0∘ 亚					
				superior conj	14621 Aug 27 22:25	19° m 26'15	-1°01'03
superior conj	14620 Sep 14 10:21	7° ≙ 13'13	-0°25'18	minimum elong	14621 Aug 28 03:07	19° m 47'28	1°00'37
minimum elong	14620 Sep 14 12:06	7° ჲ 21'36	0°24'58		14621 Sep 02 15:59	0∘ ⊽	
asc. node	14620 Sep 17 05:29	12° ჲ 37'03		asc. node	14621 Sep 04 02:02	2° ≙ 40'05	
evening rise	14620 Sep 23 05:11	24° ჲ 25'23		evening rise	14621 Sep 06 21:43	7° ≙ 59'57	
	14620 Sep 26 01:28	0°M			14621 Sep 19 17:33	0° M	
evening max el	14620 Oct 09 16:13	21°M22'04	19°04'08	evening max el	14621 Sep 22 20:10	3°M38'32	18°24'08
retrograde	14620 Oct 18 14:42	25°M51'31		retrograde	14621 Sep 30 12:00	7° M L31'42	
desc. node	14620 Oct 19 21:18	25°M46'21		evening set	14621 Oct 02 12:30	7° ጤ 16'11	
evening set	14620 Oct 20 11:36	25°M40'30		desc. node	14621 Oct 06 18:43	5° ™ 15'01	
inferior conj	14620 Oct 28 21:29	21°M26'02	-2°50'35	inferior conj	14621 Oct 10 05:00	2°M40'54	-1°05'35
minimum elong	14620 Oct 28 14:19	21°M38'18	2°47'09	minimum elong	14621 Oct 10 02:29	2°M45'57	1°04'05
min. Earth dist.	14620 Oct 31 17:05	19° ™ 30'25	0.56199 AU	min. Earth dist.	14621 Oct 13 11:08	0° ™ 04'49	0.58119 AU
morning rise	14620 Nov 05 14:20	16°M45'45			14621 Oct 13 13:39	30° ŖΩ	
direct	14620 Nov 11 05:37	15°M31'46		morning rise	14621 Oct 17 12:58	27° ₽ 23'09	
morning max el	14620 Nov 25 08:20	22°M44'03	25°55'40	direct	14621 Oct 23 18:39	25° ≏ 42'19	
	14620 Dec 01 19:50	0° ∡ ¹			14621 Nov 03 07:00	0° M	
asc. node	14620 Dec 14 06:36	19° ∡ ′21′08		morning max el	14621 Nov 07 02:00	3° ™ 18'07	27°12'53
	14620 Dec 19 18:34	8°0			14621 Nov 26 10:50	0° ∡ ¹	
morning set	14620 Dec 23 05:41	7° る 16'24		asc. node	14621 Dec 01 03:35	8° ∡ ³36'58	
				morning set	14621 Dec 07 14:30	21° х² 44'02	
superior conj	14620 Dec 29 23:46	22° る 09'55	1°37'59		14621 Dec 11 09:32	8°0	
minimum elong	14620 Dec 29 23:48	22° る 10'03	1°38'58				
max. Earth dist.	14620 Dec 31 03:53	24° る 45'53	1.31583 AU	superior conj	14621 Dec 14 11:16	6° る 51'11	
	14621 Jan 02 13:05	0° ≈		minimum elong	14621 Dec 14 10:16	6° る 45'36	
evening rise	14621 Jan 06 01:14	7° ≈ 29'18		max. Earth dist.	14621 Dec 14 11:48	6° る 54'10	1.31132 AU
desc. node	14621 Jan 15 20:04	26° ≈ 24'13		evening rise	14621 Dec 21 06:11	21° る 48'31	
	14621 Jan 17 21:50	0° ∀			14621 Dec 25 04:54	0° ≈	
evening max el	14621 Feb 07 06:04	27° ¥ 26′32	27°29'33	desc. node	14622 Jan 02 16:50	15° ≈ 43'47	
	14621 Feb 10 03:55	0° Υ			14622 Jan 12 04:20	0° ∀	
retrograde	14621 Feb 21 04:42	4° Υ '48'20		evening max el	14622 Jan 20 09:23	9° ∺ 21'39	26°52'51
evening set	14621 Feb 28 01:20	2° Y 36'19		retrograde	14622 Feb 03 09:01	16°) (34′07	
	14621 Mar 03 11:46	30° ₹		evening set	14622 Feb 10 00:02	14°) (43′02	
min. Earth dist.	14621 Mar 03 19:50		0.61623 AU	min. Earth dist.	14622 Feb 13 23:24		0.59413 AU
inferior conj	14621 Mar 06 21:35	26°) 54'42		inferior conj	14622 Feb 17 04:15	9°) (31′29	
minimum elong	14621 Mar 07 01:12	26°) 46′27	1°40'37	minimum elong	14622 Feb 17 11:11	9°) 17'40	3°04'37
asc. node	14621 Mar 12 03:55	22°) (47'41		morning rise	14622 Feb 25 01:39	4°) €51'59	
morning rise	14621 Mar 14 04:06	21°) 54'32		direct	14622 Feb 27 02:00	4°) €36'57	
direct	14621 Mar 16 08:23	21°) 33'50		asc. node	14622 Feb 27 01:23	4°) €36'57	
morning max el	14621 Mar 23 04:53	25°) €01'13	17°49'42	morning max el	14622 Mar 06 17:54	8°) €25'08	18°10'49
	14621 Mar 27 08:08	0°Υ 10° Ω			14622 Mar 20 15:56	0°Υ 2° 0 012122	
morning set	14621 Apr 07 22:08	19° Y 23'45		morning set	14622 Mar 22 09:03	3°Υ12'22	
desc. node	14621 Apr 13 22:15	0° 8 04'17		desc. node	14622 Mar 31 18:47	20° Ƴ 37'12	
	14621 Apr 13 21:17	0°8			14622 4 01 01 12	2100000000	0000101
	14621 4 10 01 24	000 5 5154	0040110	superior conj	14622 Apr 01 01:43	21°Υ08'18	
superior conj	14621 Apr 19 01:24	8° 8 56'51		minimum elong	14622 Apr 01 01:30	21°Υ°07'21	0°02'36
minimum elong	14621 Apr 18 21:39	8° 8 40'53		behind sun begin	14622 Mar 31 18:00	20° Y 33'38	
max. Earth dist.	14621 Apr 26 05:27	20° ⊙ 51′48 0° Ⅱ	1.43511 AU	behind sun end	14622 Apr 01 09:00	21° Y 41'00 0° ႘	
evening rise	14621 May 01 22:48 14621 May 03 04:17	0°Щ 1°Щ55′20		max. Earth dist.	14622 Apr 06 02:38 14622 Apr 08 16:29	4° 8 23'21	1.41563 AU
evening 1150	14621 May 22 03:20	ா ப 33 20 0° ©		evening rise	14622 Apr 08 16.29	12° 8 28'04	1.71JUJ AU
evening max el	14621 May 22 03.20 14621 Jun 03 15:26	15° © 32'24	21°36'05	evening 11se	14622 Apr 13 13.34 14622 Apr 24 21:04	0°Ⅱ	
			41 2002		17022 ADI 27 21.UT	· <u> </u>	

evening max el	14622 May 17 07:37	29° Ⅲ 23'51	22°55'29	evening max el	14623 Apr 29 21:35	13° Ⅱ 17'14	24°16'39
	14622 May 17 22:21	0°छ		retrograde	14623 May 11 06:11	19° Ⅱ 56'35	
asc. node	14622 May 25 22:11	5° © 13'01		asc. node	14623 May 12 19:25	19° Ⅱ 46′04	
retrograde	14622 May 27 12:44	5° © 24'32		evening set	14623 May 16 17:37	17° Ⅱ 37'38	
evening set	14622 Jun 01 12:39	3° © 18'00		min. Earth dist.	14623 May 21 07:53	12° Ⅱ 19'52	0.68621 AU
C	14622 Jun 04 13:23	30°RⅡ		inferior conj	14623 May 22 05:08	11° Ⅱ 08'06	2°30'51
inferior conj	14622 Jun 06 20:21	26° Ⅲ 53'56	2°54'24	minimum elong	14623 May 22 03:06	11° Ⅱ 14'58	2°29'26
minimum elong	14622 Jun 06 18:51	26° Ⅱ 59'08	2°53'09	morning rise	14623 May 27 12:41	5° Ⅱ 07'05	
min. Earth dist.	14622 Jun 06 11:48	27° Ⅲ 23'38	0.69007 AU	direct	14623 May 31 11:23	3° Ⅲ 38′15	
morning rise	14622 Jun 12 00:58	20° Ⅱ 44'34		morning max el	14623 Jun 08 02:17	7° Ⅱ 54'25	20°01'41
direct	14622 Jun 16 11:47	18° Ⅱ 55'30		desc. node	14623 Jun 14 16:39	15° Ⅱ 41'52	
morning max el	14622 Jun 25 04:01	23° II 56'01	21°15'17		14623 Jun 24 18:18	0ಂಣ	
desc. node	14622 Jun 27 19:34	26° Ⅱ 46'33		morning set	14623 Jul 05 10:48	16° © 09'48	
	14622 Jun 30 12:10	0°ಲ		•	14623 Jul 14 07:55	$0^{\circ}\Omega$	
	14622 Jul 21 12:35	$0^{\circ}\Omega$		max. Earth dist.	14623 Jul 15 18:28	2° Ω 16′53	1.44481 AU
morning set	14622 Jul 26 06:08	7° Ω 20′10					
max. Earth dist.	14622 Aug 02 07:01	18° Ω 35'25	1.42771 AU	superior conj	14623 Jul 21 06:07	11° Ω 05'50	-2°01'54
	14622 Aug 09 03:20	o∘ mp		minimum elong	14623 Jul 21 12:47	11° Ω 32'57	2°02'19
	Č	•		C	14623 Aug 01 14:15	0° m	
superior conj	14622 Aug 09 13:59	0° m/45'24	-1°35'16	evening rise	14623 Aug 03 11:16	3° m/ 12'09	
minimum elong	14622 Aug 09 21:10	1° Mp 16'04	1°35'01	asc. node	14623 Aug 08 19:13	12° m/ 17'36	
evening rise	14622 Aug 21 01:26	20° m 59'40		evening max el	14623 Aug 20 21:47	29° m 51'06	18°04'17
asc. node	14622 Aug 21 22:36	22° m/34'57		C	14623 Aug 21 01:26	0∘ ত	
	14622 Aug 26 02:21	0∘ <u>⊽</u>		retrograde	14623 Aug 27 07:31	3° ₾ 11'30	
evening max el	14622 Sep 06 07:20	16° ≏ 31'20	18°04'38	evening set	14623 Aug 29 23:36	2° ₽ 35'12	
retrograde	14622 Sep 13 02:57	20° ₽ 01'12		•	14623 Sep 02 16:02	30°R, Mp	
evening set	14622 Sep 15 10:39	19° ≏ 37'04		inferior conj	14623 Sep 05 07:21	27° mp 21'13	1°31'55
inferior conj	14622 Sep 22 09:28	14° ≏ 41'28	0°23'45	minimum elong	14623 Sep 05 09:35	27° m/15'20	1°31'02
minimum elong	14622 Sep 22 10:13	14° ₽ 39'42	0°23'37	min. Earth dist.	14623 Sep 08 02:45	24° m 23'46	0.62649 AU
desc. node	14622 Sep 23 16:13	13° ≏ 29'17		desc. node	14623 Sep 10 13:45	22° m 05'42	
min. Earth dist.	14622 Sep 25 14:06	11° ≏ 43'57	0.60367 AU	morning rise	14623 Sep 11 17:17	21° m 11'36	
morning rise	14622 Sep 29 06:37	8° ॒ 52'39		direct	14623 Sep 18 09:35	18° m) 45'17	
direct	14622 Oct 05 20:47	6° ≏ 45'58		morning max el	14623 Oct 02 10:43	26° Mp 45'23	27°54'48
morning max el	14622 Oct 20 03:27	14° ≏ 38'36	27°53'26		14623 Oct 05 11:59	0∘ ত	
	14622 Nov 01 13:51	0° M			14623 Oct 26 05:31	0° M	
asc. node	14622 Nov 18 00:27	28° M ₊13'55		asc. node	14623 Nov 04 21:14	18° M 05'58	
	14622 Nov 18 21:43	0° ∡ ¹		morning set	14623 Nov 05 17:00	19° M 45'58	
morning set	14622 Nov 21 18:59	5° ₹ ¹55'26			14623 Nov 10 14:06	0° ∡ ¹	
max. Earth dist.	14622 Nov 27 19:07	18° ∡ 55'56	1.31216 AU	max. Earth dist.	14623 Nov 10 22:12	0° х 43′35	1.31858 AU
		-					
superior conj	14622 Nov 28 22:20	21° × ⁷ 27'17		superior conj	14623 Nov 13 07:08	5° ₹ '53'36	1°11'58
minimum elong	14622 Nov 28 20:31	21° ∡ 17'11	1°27'20	minimum elong	14623 Nov 13 04:51	5° ∡ 141'09	1°12'32
	14622 Dec 02 18:24	0°ಕ		evening rise	14623 Nov 20 01:41	20° ∡ ¹45'21	
evening rise	14622 Dec 05 14:56	6° る 15'10			14623 Nov 24 11:34	0°ಕ	
	14622 Dec 17 20:37	0° ≈		desc. node	14623 Dec 07 10:43	22° る 12'00	
desc. node	14622 Dec 20 13:43	4° ≈ 24'26			14623 Dec 13 23:58	0° ≈	
evening max el	14623 Jan 02 04:32	20° ≈ 23′20	25°42'46	evening max el	14623 Dec 14 16:20	0° ≈ 40′03	24°08'02
retrograde	14623 Jan 16 02:30	27° ≈ 24'37		retrograde	14623 Dec 28 06:49	7°≈25'51	
evening set	14623 Jan 22 02:47	26°≈00'58		evening set	14624 Jan 02 06:16	6°≈31'50	
min. Earth dist.	14623 Jan 26 17:20		0.57316 AU	min. Earth dist.	14624 Jan 08 03:52		0.55628 AU
inferior conj	14623 Jan 29 15:18	21°≈21'56		inferior conj	14624 Jan 10 05:24	2°≈21'08	
minimum elong	14623 Jan 30 00:22	21°≈06′18	4°29'04	minimum elong	14624 Jan 10 12:09	2°≈10'54	5°36'02
morning rise	14623 Feb 07 00:48	17°≈04'14			14624 Jan 14 09:00	30°₹ る	
direct	14623 Feb 09 02:14	16°≈51'10		morning rise	14624 Jan 18 19:51	28°る22'43	
asc. node	14623 Feb 13 22:50	18°≈08'45	10050110	direct	14624 Jan 21 07:01	28° る 07'02	
morning max el	14623 Feb 17 22:50	21°≈10'56	18°52'48		14624 Jan 27 16:03	0° ≈	
	14623 Feb 24 17:19	0°) {		morning max el	14624 Jan 31 15:30	3°≈06'47	19°57'34
morning set	14623 Mar 06 06:49	17°) €28'57		asc. node	14624 Jan 31 20:14	3°≈18'22	
	14623 Mar 12 16:32	0° Ƴ			14624 Feb 17 11:31	0°) {	
	1460034 14.50.55	4000.000	0020120	morning set	14624 Feb 18 11:46	2°) €02'45	
superior conj	14623 Mar 14 20:58	4°Υ10'41	0°30'39		14/04 = 1 = 1 = 1	1001/	0055112
minimum elong	14623 Mar 14 22:52	4°Υ19'40	0°30'22	superior conj	14624 Feb 26 06:41	17°) ₹51'30	0°57'13
desc. node	14623 Mar 18 15:19	11°Υ11'33	1 2022 - :	minimum elong	14624 Feb 26 09:19	18°) €04'39	0°57'09
max. Earth dist.	14623 Mar 21 23:20	17° Υ 11'30	1.39337 AU	max. Earth dist.	14624 Mar 03 05:53	29°) €24'23	1.37080 AU
evening rise	14623 Mar 25 20:44	23° Y ′56′28		_	14624 Mar 03 13:30	0° Υ	
	14623 Mar 29 11:49	0° 8		desc. node	14624 Mar 04 11:49	1° Y 43'37	
	14623 Apr 18 16:04	Π $^{\circ}$ 0		evening rise	14624 Mar 06 23:31	6° Y 15′13	

	14624 Mar 21 09:09	0°B			14625 Feb 23 17:04	0° Ƴ	
evening max el	14624 Apr 11 11:12	27° 8 10'56	25°32'31		14625 Mar 15 11:02	0°8	
evening max er	14624 Apr 14 13:46	0°II	23 32 31	evening max el	14625 Mar 25 01:01	10° 8 58'46	26°35'38
retrograde	14624 Apr 23 19:09	4° Ⅱ 18'13		retrograde	14625 Apr 07 02:48	18° 8 22'24	20 30 30
asc. node	14624 Apr 28 16:45	2° Ⅱ 38'45		evening set	14625 Apr 13 11:44	15° 8 50'17	
evening set	14624 Apr 29 17:54	1° Ⅱ 50'20		asc. node	14625 Apr 15 14:07	13° 8 53'37	
C	14624 May 01 15:27	30°R₩		min. Earth dist.	14625 Apr 17 12:54	11° 8 43'35	0.66507 AU
min. Earth dist.	14624 May 04 00:58	27° 8 08'45	0.67781 AU	inferior conj	14625 Apr 19 11:32	9° 8 24'06	1°11'07
inferior conj	14624 May 05 10:54	25° 8 19'45	1°56'39	minimum elong	14625 Apr 19 09:52	9° 8 29'05	1°09'57
minimum elong	14624 May 05 08:46	25° 8 26'39	1°55'12	morning rise	14625 Apr 25 09:04	3° 8 44'10	
morning rise	14624 May 11 00:05	19° 8 28'24		direct	14625 Apr 28 10:03	2° 8 52'36	
direct	14624 May 14 11:27	18° 8 19'10		morning max el	14625 May 04 20:10	6° 8 16'04	18°20'08
morning max el	14624 May 21 07:59	22° 8 02'27	19°02'43	desc. node	14625 May 18 10:28	25° 8 04'18	
	14624 May 27 22:13	Π °0			14625 May 21 13:16	Π °0	
desc. node	14624 May 31 13:37	5° Ⅱ 10'44		morning set	14625 May 24 19:25	5° Ⅱ 10′26	
greatest brilliancy	14624 Jun 03 10:47	9° Ⅱ 27'19	-0.7m				
morning set	14624 Jun 13 16:45	25° Ⅱ 08'34		superior conj	14625 Jun 09 09:13	29° Ⅱ 42'16	
	14624 Jun 16 20:06	0 \circ		minimum elong	14625 Jun 09 02:43	29° Ⅱ 16'50	2°06'24
max. Earth dist.	14624 Jun 27 11:31	16° © 33'49	1.45566 AU		14625 Jun 09 13:46	0 \circ	
				max. Earth dist.	14625 Jun 10 07:41	1° © 09'56	1.45921 AU
superior conj	14624 Jun 30 00:47	20° © 34'17		evening rise	14625 Jun 25 08:28	24° © 37'25	
minimum elong	14624 Jun 30 01:44	20° © 38'01	2°14'43		14625 Jun 28 18:58	0 ° Ω	
	14624 Jul 05 23:38	0 ° Ω		greatest brilliancy	14625 Jul 05 09:25	10° Ω 14'38	-0.8m
evening rise	14624 Jul 14 22:12	14° Ω 25'02		asc. node	14625 Jul 12 12:38	20° Ω 41'46	
	14624 Jul 24 13:42	0° m)		evening max el	14625 Jul 17 22:57		18°57'03
asc. node	14624 Jul 25 15:53	1° Mp 42'01	10000100	. 1	14625 Jul 21 11:18	0° m	
evening max el	14624 Aug 03 11:56	13° Mp 27'36	18°22'02	retrograde	14625 Jul 24 16:59	0° m/55'59	
retrograde	14624 Aug 09 21:23	16° Mp 52'18			14625 Jul 27 19:39	30°R€ (12129	
evening set	14624 Aug 12 22:16	16° Mp 01'13	2°19'55	evening set	14625 Jul 28 03:00	29°Ω48'28 24°Ω03'31	2°50'34
inferior conj	14624 Aug 18 18:31 14624 Aug 18 20:53	10° my 30'51 10° my 23'55	2°19'53 2°18'52	inferior conj minimum elong	14625 Aug 02 15:20	$23^{\circ} \Omega 57'54$	2°49'35
minimum elong min. Earth dist.	14624 Aug 21 00:46	7° Mp 52'04	0.64732 AU	min. Earth dist.	14625 Aug 02 17:06 14625 Aug 04 07:17	23	0.66473 AU
morning rise	14624 Aug 24 18:07	4° Mg 09'49	0.04732 AU	morning rise	14625 Aug 04 07.17 14625 Aug 08 06:27	$17^{\circ} \Omega 38'14$	0.004/3 AU
desc. node	14624 Aug 27 11:18	2° m) 25'24		direct	14625 Aug 14 11:24	14° Ω 59'53	
direct	14624 Aug 31 06:52	1° m ₂ 32'53		desc. node	14625 Aug 14 08:48	$14^{\circ}\Omega59'56$	
morning max el	14624 Sep 13 21:10	9° m) 29'17	27°21'03	morning max el	14625 Aug 27 08:34	22°Ω39'20	26°19'37
moning man vi	14624 Sep 29 23:16	0∘ ⊽	2, 21 03	moming man er	14625 Sep 02 20:06	0° m)	20 19 37
	14624 Oct 17 14:53	0°M			14625 Sep 23 06:10	0∘ <u>ಹ</u>	
morning set	14624 Oct 19 05:56	3°M09'12		morning set	14625 Oct 02 06:36	15° ♀ 57'50	
asc. node	14624 Oct 21 17:55	8°M07'35		max. Earth dist.	14625 Oct 06 03:20	23° £ 21′09	1.34759 AU
max. Earth dist.	14624 Oct 23 17:35	12° M .11'07	1.33050 AU	asc. node	14625 Oct 08 14:32	28° ≏ 14'31	
					14625 Oct 09 11:27	0° M .	
superior conj	14624 Oct 27 11:30	20°MJ04'07	0°51'34				
minimum elong	14624 Oct 27 09:19	19°M52'26	0°51'55	superior conj	14625 Oct 11 08:58	3°M52'22	0°25'31
	14624 Nov 01 02:05	0° ∡ ¹		minimum elong	14625 Oct 11 07:35	3°M45'18	0°25'45
evening rise	14624 Nov 03 12:32	5° ∡ 14'05		evening rise	14625 Oct 18 21:31	19°M36'15	
	14624 Nov 16 16:10	5°0			14625 Oct 24 00:39	0° ∡ ¹	
desc. node	14624 Nov 23 07:51	8° る 47'23		evening max el	14625 Nov 06 21:03	20° ₹ 755'42	20°51'21
evening max el	14624 Nov 25 02:39	10° る 38'21	22°25'09	desc. node	14625 Nov 10 05:05	23° х 46′00	
retrograde	14624 Dec 07 22:24	16° る 59'30		retrograde	14625 Nov 18 08:48	26° ∡ ³38′20	
evening set	14624 Dec 11 13:56	16° පි 30'19		evening set	14625 Nov 20 20:12	26° ∡ ¹23'36	
min. Earth dist.	14624 Dec 19 10:03		0.54630 AU	inferior conj	14625 Nov 29 17:33	22° ∡ ³30′19	
inferior conj	14624 Dec 20 02:26	12°る35'46		minimum elong	14625 Nov 29 08:33	22° х 43'09	
minimum elong	14624 Dec 20 01:01	12° る 37'45	5°58'07	min. Earth dist.	14625 Nov 30 15:44		0.54525 AU
morning rise	14624 Dec 28 13:14	8° る 48'26		morning rise	14625 Dec 07 21:04	18° ∡ 36'32	
direct	14624 Dec 31 19:51	8°る24'15	21025115	direct	14625 Dec 12 03:17	17° 🗷 57'41	22010121
morning max el	14625 Jan 12 17:23	14°る06'58 19°る50'04	21°25'15	morning max el	14625 Dec 25 06:57	24°♂20'48 0°る	23°10'21
asc. node	14625 Jan 17 17:34 14625 Jan 24 07:12	19° 5 50'04 0°≈		asa nada	14625 Dec 30 09:23 14626 Jan 04 14:48	0°5 7° る 25'38	
morning set	14625 Jan 24 07:12 14625 Feb 01 21:09	0°≈ 16°≈45'57		asc. node	14626 Jan 04 14:48 14626 Jan 16 15:30	0°≈	
morning set	14625 Feb 01 21:09 14625 Feb 08 03:55	16°≈45°57 0°) €		morning set	14626 Jan 17 08:40	0°≈ 1°≈31'10	
	17023100 00 03.33	υ Λ		morning set	17020 Jan 1 / 00.40	1 ~31 10	
superior conj	14625 Feb 09 02:57	2° ∺ 00'06	1°17'00	superior conj	14626 Jan 24 06:30	16° ≈ 26'40	1°30'08
minimum elong	14625 Feb 09 05:23		1°17'17	minimum elong	14626 Jan 24 08:10	16°≈35'40	1°30'47
max. Earth dist.	14625 Feb 13 16:40	11°) 18'43	1.35014 AU	max. Earth dist.	14626 Jan 27 10:27	23°≈10'12	1.33309 AU
evening rise	14625 Feb 17 18:58	19° ¥ 15'06			14626 Jan 30 18:10	0° ∀	
desc. node	14625 Feb 19 08:21	22°) €09'48		evening rise	14626 Feb 01 03:29	2°) 46′14	
acsc. Houc	11025100 17 00.21						

						_	
desc. node	14626 Feb 06 04:54	12°) €25'05		asc. node	14626 Dec 22 11:55	25° ∡ ¹49'44	
	14626 Feb 16 13:53	0° Y			14626 Dec 24 19:28	0°₹	
evening max el	14626 Mar 07 14:20	24° Ƴ 29'51	27°18'44	morning set	14627 Jan 01 20:31	16° る 13'28	
	14626 Mar 14 15:07	0°B			14627 Jan 08 03:11	0° ≈	
retrograde	14626 Mar 21 04:15	1° 8 59'33					
_	14626 Mar 27 03:45	30° ŖƳ		superior conj	14627 Jan 08 14:49	1° ≈ 04'08	1°36'53
evening set	14626 Mar 27 21:00	29° Υ 29'15		minimum elong	14627 Jan 08 15:28	1°≈07'42	1°37'47
min. Earth dist.	14626 Mar 31 17:37	25°Υ′54'52	0.64839 AU	max. Earth dist.	14627 Jan 10 11:31	5°≈09'07	1.32067 AU
asc. node	14626 Apr 02 11:33	24° Υ '00'44	0.04037710	evening rise	14627 Jan 15 22:00	16° ≈ 41'30	1.32007 710
			0012125	evening rise			
inferior conj	14626 Apr 03 04:29	23° Y 14'07	0°13'25		14627 Jan 22 17:50	0°) {	
minimum elong	14626 Apr 03 04:06	23° Y 15'10	0°12'58	desc. node	14627 Jan 24 01:33	2°) 24'29	
transit middle	14626 Apr 03 04:06	23° Y 15'10	0°12'58		14627 Feb 11 04:52	0° Y	
transit begin	14626 Apr 03 02:19	23° Y 20'04		evening max el	14627 Feb 18 01:41	7° Ƴ 33'11	27°34'48
transit end	14626 Apr 03 05:53	23° Y 10'16		retrograde	14627 Mar 03 22:42	15° Ƴ 00'19	
morning rise	14626 Apr 09 13:05	17° Ƴ 47'42		evening set	14627 Mar 10 19:18	12° Y 39'20	
direct	14626 Apr 12 04:44	17° Ƴ 10'58		min. Earth dist.	14627 Mar 14 13:32	9° Y 32'33	0.62854 AU
morning max el	14626 Apr 18 12:35	20° Ƴ 27'12	17°54'29	inferior conj	14627 Mar 17 10:51	6° Ƴ 42'55	-0°56'43
	14626 Apr 25 21:16	0°8		minimum elong	14627 Mar 17 12:44	6° Ƴ 38'17	0°55'57
desc. node	14626 May 05 07:11	15° 8 14'59		asc. node	14627 Mar 20 09:01	4° Υ '00'36	0 33 37
	,	16° 8 32'33			14627 Mar 24 08:55	1° Υ 32'25	
morning set	14626 May 06 01:53			morning rise			
	14626 May 14 06:27	Π °0		direct	14627 Mar 26 16:39	1° Υ '07'02	
				morning max el	14627 Apr 02 06:18	4° Υ 27'29	17°46'14
superior conj	14626 May 20 00:39	9° Ⅱ 14'55	-1°39'32	morning set	14627 Apr 18 09:25	29° Y 05'41	
minimum elong	14626 May 19 15:46	8° Ⅲ 39'35	1°39'33		14627 Apr 18 21:54	9° 8	
max. Earth dist.	14626 May 24 03:46	15° Ⅱ 46′29	1.45517 AU	desc. node	14627 Apr 22 03:48	5° 8 37'36	
	14626 Jun 02 07:31	0 \circ \odot					
evening rise	14626 Jun 04 23:56	4° © 07'26		superior conj	14627 Apr 30 12:08	19° 8 45'02	-1°02'48
greatest brilliancy	14626 Jun 19 10:35	25° © 51'45	-0.6m	minimum elong	14627 Apr 30 06:02	19° 8 19'44	1°02'40
B	14626 Jun 22 07:56	0°Ω		8	14627 May 06 19:24	0°П	
asc. node	14626 Jun 29 09:29	9° Ω 08'06		max. Earth dist.	14627 May 06 21:15		1.44413 AU
		11°Ω03'43	19°48'20		•	13° ∏ 34'37	1.44413 AU
evening max el	14626 Jul 01 04:49		19-48-20	evening rise	14627 May 15 11:16		
retrograde	14626 Jul 08 15:23	15° Ω 15'57			14627 May 26 08:56	0°©	
evening set	14626 Jul 12 11:08	13° Ω 51'19		evening max el	14627 Jun 14 04:45	24° © 54'45	20°53'41
inferior conj	14626 Jul 17 18:47	7° Ω 53′23	3°06'44	asc. node	14627 Jun 16 06:25	26° © 49'25	
minimum elong	14626 Jul 17 19:37	7° Ω 50'33	3°05'48	retrograde	14627 Jun 22 14:22	29° © 46'15	
min. Earth dist.	14626 Jul 18 20:32	6° Ω 26'51	0.67786 AU	evening set	14627 Jun 26 20:32	28° © 04'33	
morning rise	14626 Jul 23 03:41	1° Ω 28'58		inferior conj	14627 Jul 02 02:20	21° © 55'07	3°10'32
	14626 Jul 25 04:12	30° №		minimum elong	14627 Jul 02 02:11	21° © 55'39	3°09'32
direct	14626 Jul 28 22:11	28° © 57'20		min. Earth dist.	14627 Jul 02 14:26	21° © 13'09	0.68638 AU
desc. node	14626 Aug 01 06:14	29° © 39'42		morning rise	14627 Jul 07 07:33	15°935'00	0.00050110
dese. Hode	14626 Aug 02 00:32	0°Ω		direct	14627 Jul 12 14:10	13°9516'34	
mamina may al	14626 Aug 09 19:28	6° Ω 04'50	24°59'44	desc. node	14627 Jul 19 03:34	15°959'26	
morning max el	•		24 39 44				22021105
	14626 Aug 28 08:40	0° m/y		morning max el	14627 Jul 23 06:05	19° © 38'19	23°31'05
morning set	14626 Sep 14 15:06	28° m 02'56			14627 Aug 01 01:15	0 ° Ω	
	14626 Sep 15 17:21	0∘ ⊽			14627 Aug 21 12:15	0° ™	
max. Earth dist.	14626 Sep 18 04:31	4° ≏ 28'58	1.36887 AU	morning set	14627 Aug 27 02:53	9° Mp 12'52	
				max. Earth dist.	14627 Aug 31 02:20	16° Mp 01'23	1.39250 AU
superior conj	14626 Sep 24 20:31	17° ≏ 11'18	-0°05'36				
minimum elong	14626 Sep 24 20:52	17° ≙ 13′00	0°05'21	superior conj	14627 Sep 07 18:24	29° m 51'26	-0°40'22
behind sun begin	14626 Sep 24 14:40	16° ≏ 42'35		minimum elong	14627 Sep 07 21:21	0° ჲ 05'14	0°39'58
behind sun end	14626 Sep 25 03:03	17° ≏ 43'28			14627 Sep 07 20:14	0∘ ত	
asc. node	14626 Sep 25 11:06	18° ≏ 23'10		asc. node	14627 Sep 12 07:38	8° ≏ 29'19	
	14626 Oct 01 05:47	0°M		evening rise	14627 Sep 17 00:26	17° ≏ 36'03	
evening rise	14626 Oct 03 02:26	3°M46'10		evening rise	14627 Sep 23 14:05	0°M	
evening rise							10044122
	14626 Oct 18 09:59	0° √	10000050	evening max el	14627 Oct 03 03:39	13°M50'50	18°44'32
evening max el	14626 Oct 20 05:38	1° ₹ 58'46	19°36'56	retrograde	14627 Oct 11 11:52	18°M03'03	
desc. node	14626 Oct 28 02:25	6° ∡ ¹42'34		evening set	14627 Oct 13 09:35	17°M50'42	
retrograde	14626 Oct 30 02:07	6° ≯ 754'13		desc. node	14627 Oct 14 23:50	17° M 22'31	
evening set	14626 Nov 01 00:05	6° ∡ 43'53		inferior conj	14627 Oct 21 12:29	13°M27'57	
inferior conj	14626 Nov 09 17:33	2° ∡ ³39'58	-3°51'53	minimum elong	14627 Oct 21 07:20	13°M37'22	2°02'13
minimum elong	14626 Nov 09 08:10	2° ∡ ¹54'48	3°47'54	min. Earth dist.	14627 Oct 24 14:30	11°M12'55	0.56960 AU
min. Earth dist.	14626 Nov 12 00:28	1° ∡ 13'12	0.55351 AU	morning rise	14627 Oct 29 01:50	8°M31'26	
	14626 Nov 14 01:50	30°RM		direct	14627 Nov 04 00:07	7° ™ 05'49	
morning rise	14626 Nov 17 14:23	28°M19'49		morning max el	14627 Nov 18 05:24	14°M29'21	26°32'19
direct	14626 Nov 22 18:40	27°M20'01			14627 Nov 30 14:58	0° √	/
anov	14626 Dec 01 05:28	27 11 6 2001 0° √ 1		asc. node	14627 Dec 09 08:57	14° × ⁷ 49'23	
morning me1			2/050155	asc. Hour			
morning max el	14626 Dec 06 16:17	4° √ 17'17	24 38 33		14627 Dec 16 22:04	0°ಕ	

desc. node

14631 Aug 22 13:51

24° \$\Omega 50' 48

desc. node

14630 Sep 04 16:21

13° m/34'27

direct	14631 Aug 24 18:53	24° Ω 32'43		min. Earth dist.	14632 Jul 27 23:11	15° Ω 24'56	0.67089 AU
	14631 Sep 04 14:03	0° m		morning rise	14632 Aug 01 01:26	10° Ω 50′17	
morning max el	14631 Sep 07 02:54	2° Mp 24'40	26°57'50	direct	14632 Aug 07 02:20	8° Ω 13'37	
	14631 Sep 27 21:01	0∘ ⊽		desc. node	14632 Aug 08 11:19	8° Ω 20'47	
morning set	14631 Oct 12 18:55	26° ≏ 02'44		morning max el	14632 Aug 19 13:51	15° Ω 41′03	25°47'16
	14631 Oct 14 19:42	0° M ₊			14632 Aug 31 09:20	0° m y	
asc. node	14631 Oct 16 20:07	4° M ₀01'20			14632 Sep 19 17:47	0∘ ⊽	
max. Earth dist.	14631 Oct 16 23:40	4° M ₁9'20	1.33708 AU	morning set	14632 Sep 24 13:08	8° ≙ 33'14	
				max. Earth dist.	14632 Sep 28 04:58	15° ≙ 23'19	1.35620 AU
superior conj	14631 Oct 21 08:34	13°M20'59	0°41'13	asc. node	14632 Oct 02 16:42	24° ≏ 09'11	
minimum elong	14631 Oct 21 06:38	13°M 10'45	0°41'29		14622 0 + 04 02 12	260 0 57122	0010154
evening rise	14631 Oct 28 13:51	28°M43'21		superior conj	14632 Oct 04 02:12	26° ₽ 57'22	0°12'54
	14631 Oct 29 04:23	0° ∡ ¹		minimum elong	14632 Oct 04 01:26	26° £ 53'31	0°13'07
	14631 Nov 15 19:30	0°る 2°る18'10	21942127	behind sun begin	14632 Oct 03 21:49	26° £ 35'17	
evening max el desc. node	14631 Nov 17 23:29 14631 Nov 18 10:18	2°る44'16	21 43 27	behind sun end	14632 Oct 04 05:02 14632 Oct 05 14:08	27° ≗ 11'45 0° ™	
retrograde	14631 Nov 30 07:28	8°る24'30		evening rise	14632 Oct 11 21:20	13°ML00'23	
•	14631 Dec 03 09:24	8°る03'06		evening rise	14632 Oct 20 16:14	13 IIC00 23 0° ⊼	
evening set inferior conj	14631 Dec 03 09.24	8 303 00 4° る 10'53	5050101	evening max el	14632 Oct 20 16.14 14632 Oct 29 23:42	0 x . 12° x 53'09	20°17'09
minimum elong	14631 Dec 11 21:37	4°る18'16	5°48'26	desc. node	14632 Nov 04 07:33	16° x 53'42	20 1/09
min. Earth dist.	14631 Dec 12 03:04	4°る10'38	0.54471 AU	retrograde	14632 Nov 09 18:42	18° × 15'23	
morning rise	14631 Dec 20 10:35	0°る22'54	0.544/1 AU	evening set	14632 Nov 11 22:37	18° × 13'23'	
morning risc	14631 Dec 22 09:08	30°R. ✓		inferior conj	14632 Nov 20 20:01	14° × 0327	-4°47'04
direct	14631 Dec 24 03:03	29° 🗷 53'10		minimum elong	14632 Nov 20 09:57	14°×7'22'07	4°43'26
ancer	14631 Dec 25 20:24	0°る		min. Earth dist.	14632 Nov 22 09:36	13° × 711'49	0.54769 AU
morning max el	14632 Jan 05 14:57	5° る 54'26	22°08'17	morning rise	14632 Nov 28 20:38	10° х ¹04'32	0.0 1, 0, 110
asc. node	14632 Jan 12 20:01	14° る 32'58	22 00 17	direct	14632 Dec 03 12:57	9° × 717'14	
	14632 Jan 21 20:50	0° ≈		morning max el	14632 Dec 17 01:18	15° ₹ ¹55'32	23°57'06
morning set	14632 Jan 26 23:00	10° ≈ 23'29		5 5	14632 Dec 28 03:48	0°ප	
C				asc. node	14632 Dec 29 17:11	2° ට 30'51	
superior conj	14632 Feb 03 00:53	25° ≈ 28'13	1°23'22	morning set	14633 Jan 10 10:54	25° ට 08'11	
minimum elong	14632 Feb 03 03:02	25° ≈ 39'38	1°23'48	J	14633 Jan 12 16:53	0° ≈	
	14632 Feb 05 04:48	0°)					
max. Earth dist.	14632 Feb 06 23:44	3°) 40′38	1.34242 AU	superior conj	14633 Jan 17 06:44	10° ≈ 00′16	1°33'45
evening rise	14632 Feb 11 08:07	12°) 17′52		minimum elong	14633 Jan 17 08:00	10° ≈ 07'07	1°34'31
desc. node	14632 Feb 14 10:30	18° ∺ 08'40		max. Earth dist.	14633 Jan 19 20:58	15° ≈ 35'54	1.32727 AU
	14632 Feb 21 04:14	0° Y		evening rise	14633 Jan 24 21:17	26° ≈ 00'37	
	14632 Mar 13 09:12	0° 8			14633 Jan 26 21:34	0°) €	
evening max el	14632 Mar 17 07:23	4° 8 06'46	26°56'52	desc. node	14633 Jan 31 07:06	8° ¥ 18'17	
retrograde	14632 Mar 30 15:19	11° 8 34'29			14633 Feb 13 13:38	0° Y	
evening set	14632 Apr 06 03:46	9° 8 02'34		evening max el	14633 Feb 27 20:25	17° Ƴ 29'01	27°29'17
asc. node	14632 Apr 09 16:40	5° 8 38'13		retrograde	14633 Mar 13 13:49	24° Y 57'42	
min. Earth dist.	14632 Apr 10 02:52	5° 8 09'42	0.65838 AU	evening set	14633 Mar 20 08:43	22° Y 30'45	
inferior conj	14632 Apr 12 06:44	2° 8 39'56	0°48'09	min. Earth dist.	14633 Mar 24 04:09	19° Y 08'37	0.64031 AU
minimum elong	14632 Apr 12 05:30	2° 8 43'30	0°47'14	inferior conj	14633 Mar 26 19:38	16° Y 22'44	
	14632 Apr 14 16:33	30°₹ Υ		minimum elong	14633 Mar 26 20:06	16° Y 21'32	
morning rise	14632 Apr 18 08:39	27° Y 05'14		transit middle	14633 Mar 26 20:06	16° Y 21'32	0°14'47
direct	14632 Apr 21 05:26	26° Y 20′26	10007102	transit begin	14633 Mar 26 18:54	16° Y 24'40	
morning max el	14632 Apr 27 13:42	29° Y 39'39 0° と	18°07'02	transit end	14633 Mar 26 21:17	16° Y 18'25 15° Y 34'44	
desc. node	14632 Apr 27 21:55	20° 8 57'34		asc. node	14633 Mar 27 14:06 14633 Apr 02 09:40	13° γ 34 44 11° γ 02'27	
morning set	14632 May 12 12:40 14632 May 16 09:11	20 8 3734 27° 8 11'12		morning rise direct	14633 Apr 02 09.40	10° Y 30'51	
morning set	14632 May 18 03:00	0°Ⅱ		morning max el	14633 Apr 11 07:02	13° Y 47′28	17°48'46
	14032 May 18 03.00	υщ		morning max ci	14633 Apr 22 17:11	0°8	17 48 40
superior conj	14632 May 31 07:59	21° Ⅱ 01'04	-1°56'26	morning set	14633 Apr 28 03:08	9° 8 06'38	
minimum elong	14632 May 30 23:39	20° Ⅲ 28'21		desc. node	14633 Apr 29 09:21	11° 8 14'20	
max. Earth dist.	14632 Jun 02 16:33	24° II 42'28	1.45840 AU	acse. Houc	14633 May 10 17:08	0°Ⅱ	
	14632 Jun 06 02:01	0°95			10 17.00		
evening rise	14632 Jun 16 10:35	16° © 03'16		superior conj	14633 May 11 06:57	0° Ⅱ 55'51	-1°24'43
	14632 Jun 25 12:10	0°Ω		minimum elong	14633 May 10 22:51	0° I I23'08	
greatest brilliancy	14632 Jun 28 14:26	4° Ω 40'17	-0.7m	max. Earth dist.	14633 May 16 12:19	9° I 16'21	1.45138 AU
asc. node	14632 Jul 06 14:56	15° Ω 57'42		evening rise	14633 May 26 22:23	25° I 27'41	
evening max el	14632 Jul 10 13:02	20° Ω 27'13	19°17'05	<i>3</i>	14633 May 29 21:51	0°95	
retrograde	14632 Jul 17 13:09	24° Ω 20'38			14633 Jun 19 20:31	0°N	
evening set	14632 Jul 21 03:15	23° Ω 05'55		asc. node	14633 Jun 23 11:49	4° Ω 06'31	
inferior conj	14632 Jul 26 13:15	17° Ω 15'34	2°59'02	evening max el	14633 Jun 23 16:31	4° Ω 18′20	20°14'32
minimum elong	14632 Jul 26 14:39	17° Ω 11'00		retrograde	14633 Jul 01 11:58	8° Ω 45'48	
•							

ovening set	14622 Iul 05 12:10	7° Ω 13'40		ratragrada	14624 Jun. 15 10:44	23° © 19'15	
evening set inferior conj	14633 Jul 05 12:10 14633 Jul 10 18:43	1°Ω10'42	3°09'44	retrograde evening set	14634 Jun 15 10:44 14634 Jun 19 21:38	23 \$31913 21°\$30'17	
minimum elong	14633 Jul 10 18:43	1° Ω 09'16	3°08'47	inferior conj	14634 Jun 25 03:23	15° © 16'15	3°08'45
min. Earth dist.	14633 Jul 10 19:08	0° Ω 02'59	0.68217 AU	minimum elong	14634 Jun 25 02:50	15° © 18'10	3°07'42
min. Earth dist.	14633 Jul 11 14:34	30°RS	0.06217 AU	min. Earth dist.	14634 Jun 25 09:45	13 3 18 10 14° 9 54' 05	0.68860 AU
morning rise	14633 Jul 16 01:47	24°9548'02		morning rise	14634 Jun 30 07:50	8°958'47	0.08800 AU
direct	14633 Jul 21 15:24	24 948 02 22°921'27		direct	14634 Jul 05 09:04	6°9347'46	
desc. node	14633 Jul 26 08:43	23°5946'11		desc. node	14634 Jul 13 06:00	10°\$40'45	
morning max el	14633 Aug 02 00:24	29°909'55	24022128	morning max el	14634 Jul 15 11:51	10 34043 12°547'24	22°53'01
morning max ci	14633 Aug 02 19:51	29 3 09 33	24 22 26	morning max ci	14634 Jul 29 07:28	0°Ω	22 33 01
	Č	0° m)			14634 Aug 18 00:43	0°m)	
marning ast	14633 Aug 25 03:58 14633 Sep 06 13:16	20° m) 15'08		morning set	Č	0° Mo 59'09	
morning set	14633 Sep 10 04:12	~	1.37885 AU	Č	14634 Aug 18 15:07	-	1 40261 ATT
max. Earth dist.		26° m/38'51	1.3/883 AU	max. Earth dist.	14634 Aug 23 03:21	8° Mp 32'40	1.40261 AU
	14633 Sep 12 00:33	0∘ ⊽		aumoriar aoni	14624 Ana 20 22:12	220 m 21100	0055120
superior conj	14633 Sep 17 08:24	10° ჲ 00'23	0.50.05	superior conj minimum elong	14634 Aug 30 23:13 14634 Aug 31 03:27	22° Mp 21'08 22° Mp 40'27	
	•	10° 2 06'55		minimum ciong	•	0° ⊽	0 33 11
minimum elong	14633 Sep 17 09:46		0 1943	4-	14634 Sep 04 02:28		
asc. node	14633 Sep 19 13:16	14° £ 16'50		asc. node	14634 Sep 06 09:51	4° £ 21'07	
evening rise	14633 Sep 25 23:40	27° ♀ 02'15		evening rise	14634 Sep 09 17:49	10° Ω 41'39	
·	14633 Sep 27 11:33	0°M	10011155		14634 Sep 20 14:43	0°M	10020144
evening max el	14633 Oct 12 14:14	24°M16'22	19°11'55	evening max el	14634 Sep 25 16:49	6°M27'05	18°28'44
retrograde	14633 Oct 21 18:13	28°M52'28		retrograde	14634 Oct 03 12:39	10°M24'52	
desc. node	14633 Oct 22 04:56	28°M51'51		evening set	14634 Oct 05 12:14	10°M10'21	
evening set	14633 Oct 23 15:05	28°M41'48	2006155	desc. node	14634 Oct 09 02:23	8°M38'17	1000110
inferior conj	14633 Nov 01 03:08	24°M30'08		inferior conj	14634 Oct 13 07:28	5°M38'21	
minimum elong	14633 Oct 31 19:19	24°M43'16	3°03'15	minimum elong	14634 Oct 13 04:18	5°M44'35	
min. Earth dist.	14633 Nov 03 19:53	22°M41'46	0.55952 AU	min. Earth dist.	14634 Oct 16 12:58	3°M07'03	0.57805 AU
morning rise	14633 Nov 08 21:04	19° M 55'19		morning rise	14634 Oct 20 16:52	0° ™ 25'49	
direct	14633 Nov 14 09:36	18°M45'15			14634 Oct 21 14:24	30°Ŗ Ω	
morning max el	14633 Nov 28 11:21	25°M53'49	25°41'49	direct	14634 Oct 26 20:48	28° ≏ 48'52	
	14633 Dec 02 08:31	0° ∡ ¹			14634 Nov 01 06:10	0°M₊	
asc. node	14633 Dec 16 14:17	21° ∡ 11'10		morning max el	14634 Nov 10 03:54	6°M21'58	27°03'32
	14633 Dec 21 05:24	0°ප			14634 Nov 27 16:54	0° ∡ ¹	
morning set	14633 Dec 25 22:22	9° る 47'28		asc. node	14634 Dec 03 11:17	10° ∡ 22'50	
				morning set	14634 Dec 10 07:41	24° ∡ 16'42	
superior conj	14634 Jan 01 16:22	24° る 39'44	1°37'52		14634 Dec 12 22:56	0° る	
minimum elong	14634 Jan 01 16:34	24° る 40'48	1°38'52				
max. Earth dist.	14634 Jan 03 00:50	27° る 39'19	1.31686 AU	superior conj	14634 Dec 17 03:47	9° ප 21'02	1°36'00
	14634 Jan 04 02:25	0° ≈		minimum elong	14634 Dec 17 02:56	9° ප 16'16	1°37'00
evening rise	14634 Jan 08 19:11	10° ≈ 03'31		max. Earth dist.	14634 Dec 17 08:21	9° る 46'29	1.31161 AU
desc. node	14634 Jan 18 03:46	28° ≈ 08'53		evening rise	14634 Dec 23 23:24	24° る 20'41	
	14634 Jan 19 04:59	0° ∀			14634 Dec 26 16:20	0° ≈	
	14634 Feb 09 23:16	$\mathbf{\gamma}^{\circ}$		desc. node	14635 Jan 05 00:34	17° ≈ 33'01	
evening max el	14634 Feb 10 06:21	0° Υ 17'00	27°32'00		14635 Jan 13 00:59	0° ∀	
retrograde	14634 Feb 24 04:34	7° Y 40′20		evening max el	14635 Jan 23 10:40	12° ∺ 19'06	27°00'34
evening set	14634 Mar 03 01:29	5° Y 25'38		retrograde	14635 Feb 06 10:33	19°) 33′31	
min. Earth dist.	14634 Mar 06 19:43	2° Y 28'51	0.61950 AU	evening set	14635 Feb 13 02:48	17°) €38'54	
	14634 Mar 09 11:59	30° ₹ ₩		min. Earth dist.	14635 Feb 17 00:54	14° ¥ 58'17	0.59736 AU
inferior conj	14634 Mar 09 20:32	29°) 39′59	-1°29'54	inferior conj	14635 Feb 20 05:49	12° ¥ 22′21	-2°54'26
minimum elong	14634 Mar 09 23:40	29°) 32′41	1°28'30	minimum elong	14635 Feb 20 12:16	12° ∺ 09'14	2°51'37
asc. node	14634 Mar 14 11:35	25° ¥ 51'57		morning rise	14635 Feb 28 01:06	7°) € 39'43	
morning rise	14634 Mar 17 00:50	24°) ₹37'08		asc. node	14635 Mar 01 09:03	7° ¥ 25′59	
direct	14634 Mar 19 05:58	24° ∺ 15'19		direct	14635 Mar 02 01:42	7° ¥ 24'07	
morning max el	14634 Mar 26 00:22	27°) 40′23	17°48'12	morning max el	14635 Mar 09 14:14	11° ∺ 08'42	18°06'24
	14634 Mar 28 03:09	0° Y			14635 Mar 22 01:19	0° Y	
morning set	14634 Apr 10 19:32	22° Y ′04'41		morning set	14635 Mar 25 04:27	5° Ƴ 47'44	
	14634 Apr 15 06:58	0° 8		desc. node	14635 Apr 03 02:31	22° Y °12'56	
desc. node	14634 Apr 16 05:57	1° 8 40'43					
				superior conj	14635 Apr 04 01:45	23° Y ′56'49	-0°07'51
superior conj	14634 Apr 22 04:41	11° 8 54'20	-0°46'08	minimum elong	14635 Apr 04 01:06	23° Y ′53'53	0°08'03
minimum elong	14634 Apr 22 00:19	11° 8 35'53	0°46'04	behind sun begin	14635 Apr 03 18:22	23° Y °23'54	
max. Earth dist.	14634 Apr 29 04:49	23° 8 28'47	1.43765 AU	behind sun end	14635 Apr 04 07:49	24° Y °23'49	
	14634 May 03 06:45	Π °0			14635 Apr 07 12:27	0° 8	
evening rise	14634 May 06 13:03	5° Ⅱ 06'33		max. Earth dist.	14635 Apr 11 16:22	7° 8 05'22	1.41875 AU
	14634 May 23 06:14	0 \circ \odot		evening rise	14635 Apr 16 19:40	15° 8 31'07	
evening max el	14634 Jun 06 14:02	18° © 09'23	21°24'46		14635 Apr 26 03:07	Π $^{\circ}0$	
asc. node	14634 Jun 10 08:50	21°524'36			14635 May 18 08:38	0ಂಣ	
					•		

evening max el	14635 May 20 06:47	2° © 00'46	22°43'27	max. Earth dist.	14636 Mar 23 23:49	20° Y ′00'39	1.39674 AU
asc. node	14635 May 28 05:57	7° 9 35'56		evening rise	14636 Mar 27 23:24	26° Y ′51′50	
retrograde	14635 May 30 07:46	7° © 55'09		Ü	14636 Mar 29 20:25	0° ႘	
evening set	14635 Jun 04 05:55	5° © 50'51			14636 Apr 18 17:11	$\Pi^{\circ}0$	
	14635 Jun 09 03:59	30°RⅡ		evening max el	14636 May 01 21:03	15° Ⅱ 54'32	24°04'45
inferior conj	14635 Jun 09 13:12	29° Ⅲ 27'55	2°57'06	retrograde	14636 May 13 01:41	22° II 28'23	
minimum elong	14635 Jun 09 11:49	29° Ⅲ 32'45	2°55'52	asc. node	14636 May 14 03:09	22° II 23'27	
min. Earth dist.	14635 Jun 09 06:36	29° Ⅲ 50′55	0.69022 AU	evening set	14636 May 18 11:25	20° Ⅱ 11′09	
morning rise	14635 Jun 14 17:36	23° Ⅲ 17′18		min. Earth dist.	14636 May 23 02:56	14° Ⅱ 47'57	0.68711 AU
direct	14635 Jun 19 06:16	21° Ⅲ 25′10		inferior conj	14636 May 23 22:15	13° Ⅱ 42'19	2°35'07
morning max el	14635 Jun 28 02:45	26° Ⅲ 33′10	21°27'15	minimum elong	14636 May 23 20:17	13° Ⅱ 49'01	2°33'44
desc. node	14635 Jun 30 03:12	28° Ⅱ 41'13		morning rise	14636 May 29 05:12	7° Ⅱ 39'56	
	14635 Jul 01 06:54	0 \circ		direct	14636 Jun 02 05:44	6° Ⅱ 07'59	
	14635 Jul 22 19:10	0 $^{\circ}$ Ω		morning max el	14636 Jun 09 23:54	10° Ⅱ 29'55	20°11'46
morning set	14635 Jul 29 16:25	10° Ω 39'37		desc. node	14636 Jun 16 00:18	17° Ⅲ 30′24	
max. Earth dist.	14635 Aug 05 07:07	21° Ω 17'21	1.42472 AU		14636 Jun 24 23:00	0 \circ	
	14635 Aug 10 12:30	0° m)		morning set	14636 Jul 07 22:42	19° © 32'48	
					14636 Jul 14 15:50	0 \circ Ω	
superior conj	14635 Aug 12 18:07	3° m 49'04		max. Earth dist.	14636 Jul 17 17:46	4° Ω 52'53	1.44268 AU
minimum elong	14635 Aug 13 01:02	4° m 18'53	1°30'05				
evening rise	14635 Aug 23 23:45	23° m 47'21		superior conj	14636 Jul 23 13:48	14° Ω 18'15	
asc. node	14635 Aug 24 06:26	24° m 17'38		minimum elong	14636 Jul 23 20:51	14° Ω 47'09	1°58'57
	14635 Aug 27 10:12	0∘ ⊽	1000 (110		14636 Aug 01 22:56	0° Mp	
evening max el	14635 Sep 09 03:15	19° £ 15'30	18°06'18	evening rise	14636 Aug 05 12:34	6° Mp 07'29	
retrograde	14635 Sep 16 01:07	22° Ω 47'47		asc. node	14636 Aug 10 03:03	14° Mp 02'25	
evening set	14635 Sep 18 07:42	22° Ω 25'08	0011122		14636 Aug 20 11:06	0∘ ⊽	10002100
inferior conj	14635 Sep 25 09:02	17° Ω 32'32	0°11'32	evening max el	14636 Aug 22 17:27	2° Ω 31'44	18°03'08
minimum elong	14635 Sep 25 09:25	17° Ω 31'40	0°11'35	retrograde	14636 Aug 29 03:57	5° £ 52'32 5° £ 18'10	
transit middle	14635 Sep 25 09:25	17° £ 31'40 17° £ 36'59	0°11'35	evening set	14636 Aug 31 18:48		1°22'53
transit begin transit end	14635 Sep 25 07:05 14635 Sep 25 11:45	17 2 36 39 17° 2 26'19		inferior conj minimum elong	14636 Sep 07 04:34 14636 Sep 07 06:40	0° £ 06'41 0° £ 01'13	1°22'05
desc. node	14635 Sep 25 11.43	17 ≥ 26 19 16° ₽ 58'30		minimum elong	14636 Sep 07 06:40	30°RM)	1 22 03
min. Earth dist.	14635 Sep 28 14:33	10 ⊆ 36'50	0.60030 AU	min. Earth dist.	14636 Sep 10 01:36	27° Mg 08'07	0.62322 AU
morning rise	14635 Oct 02 07:52	14 ⊆ 30 30 11° ⊆ 47'52	0.00030 AU	desc. node	14636 Sep 11 21:23	25° m) 25'07	0.02322 AC
direct	14635 Oct 02 07:32	9° Ω 44'35		morning rise	14636 Sep 13 16:09	23° m 59'38	
morning max el	14635 Oct 23 04:11	17° ≏ 35'03	27°49'48	direct	14636 Sep 20 08:33	21° m ₂ 35'51	
morning max cr	14635 Nov 02 12:52	0° ™	27 47 40	morning max el	14636 Oct 04 10:41	29° m) 34'59	27°56'57
asc. node	14635 Nov 20 08:11	29°M56'54		morning max or	14636 Oct 04 20:39	0ം ರ	27 3037
use. Houe	14635 Nov 20 08:49	0° ⊼			14636 Oct 26 12:53	0° ™	
morning set	14635 Nov 24 12:56	8° х ⁷ 30'35		asc. node	14636 Nov 06 05:00	19° M 46'59	
max. Earth dist.	14635 Nov 30 15:56	21° х 49'19	1.31171 AU	morning set	14636 Nov 07 12:03	22°M24'21	
				. 8	14636 Nov 11 03:08	0° ⊼	
superior conj	14635 Dec 01 15:04	23° х ⁴58'09	1°28'13	max. Earth dist.	14636 Nov 12 19:56	3° х 39'46	1.31731 AU
minimum elong	14635 Dec 01 13:21	23° ∡ ¹48'37	1°29'04				
	14635 Dec 04 07:55	ರ∘ರ		superior conj	14636 Nov 15 00:19	8° ≯ 26'09	1°14'34
evening rise	14635 Dec 08 07:44	8° පි 46'30		minimum elong	14636 Nov 14 22:05	8° ∡ 13'53	1°15'10
	14635 Dec 19 02:23	0° ≈		evening rise	14636 Nov 21 18:18	23° х 16′28	
desc. node	14635 Dec 22 21:28	6° ≈ 20'08			14636 Nov 24 22:34	ರ°ರ	
evening max el	14636 Jan 05 07:13	23° ≈ 28'49	25°55'07	desc. node	14636 Dec 08 18:27	24° る 16'44	
	14636 Jan 15 13:49	0° ∀			14636 Dec 13 04:57	0° ≈	
retrograde	14636 Jan 19 05:46	0°) 31'40		evening max el	14636 Dec 16 19:55	3° ≈ 51'04	24°23'05
	14636 Jan 22 21:19	30°R ≈		retrograde	14636 Dec 30 11:49	10° ≈ 39'14	
evening set	14636 Jan 25 08:45	29° ≈ 03'53		evening set	14637 Jan 04 15:43	9° ≈ 40'52	
min. Earth dist.	14636 Jan 29 20:17	26° ≈ 26′06	0.57604 AU	min. Earth dist.	14637 Jan 10 07:38	6° ≈ 49'03	0.55840 AU
inferior conj	14636 Feb 01 19:57	24° ≈ 20′08	-4°20'17	inferior conj	14637 Jan 12 13:05	5° ≈ 26'49	
minimum elong	14636 Feb 02 04:53	24° ≈ 04'22	4°16'56	minimum elong	14637 Jan 12 20:35	5° ≈ 15'14	5°28'08
morning rise	14636 Feb 10 03:58	19° ≈ 59'02		morning rise	14637 Jan 21 03:23	1° ≈ 25'54	
direct	14636 Feb 12 04:45	19° ≈ 45'56		direct	14637 Jan 23 12:33	1°≈10'53	
asc. node	14636 Feb 16 06:28	20°≈41'44	4004	asc. node	14637 Feb 02 03:52	5°≈37'13	
morning max el	14636 Feb 20 20:37	24°≈00'38	18°45'12	morning max el	14637 Feb 02 15:16	6°≈04'11	19°46'30
	14636 Feb 25 18:05	0° ∀			14637 Feb 17 22:30	0°) {	
morning set	14636 Mar 08 00:54	20°) €01'05		morning set	14637 Feb 20 04:58	4°) (32′53	
	14636 Mar 13 03:59	0° Ƴ			14/2007	2001/22:25	0053130
	1462634 16 10 22	C000 50100	002/102	superior conj	14637 Feb 28 02:18	20° ¥ 28'07	0°53'38
superior conj	14636 Mar 16 18:30	6°Υ52'28	0°26'02	minimum elong	14637 Feb 28 04:54	20°) 40′57	0°53'30
minimum elong	14636 Mar 16 20:10	7° Υ 00'20 12° Υ 47'23	0°25'44	may Earth 1:-4	14637 Mar 05 00:41	0°Υ 2°Υ19!29	1 27404 411
desc. node	14636 Mar 19 23:04	14 4/23		max. Earth dist.	14637 Mar 06 06:18	2° Y 18'28	1.37406 AU

daga mada	14627 Mar 06 10:24	3° Ƴ 19'56		avanina riaa	14629 Eab 20 16:22	210W 57122	
desc. node	14637 Mar 06 19:34	9° Υ 03'21		evening rise desc. node	14638 Feb 20 16:32 14638 Feb 21 16:07	21°)(57'22 23°)(47'10	
evening rise	14637 Mar 09 23:22 14637 Mar 22 15:02	0° 8		desc. node		23 χ 4/10 0° Υ	
evening max el	14637 Apr 14 10:37	29° 8 48'19	25°21'40		14638 Feb 25 02:33 14638 Mar 16 10:19	0°8	
evening max er	14637 Apr 14 10:37	0° Ⅱ	23 21 49	evening max el	14638 Mar 28 00:18	13° 8 36'43	26°27'16
retrograde	14637 Apr 26 15:17	6° П 51'56		retrograde	14638 Apr 09 23:46	20° 8 58'49	20 27 10
asc. node	14637 May 01 00:25	5° П 31'38		evening set	14638 Apr 16 07:21	18° B 26'49	
evening set	14637 May 02 12:28	4° Π 25'02		asc. node	14638 Apr 17 21:45	16° 8 59'36	
evening set	14637 May 06 13:42	30°R 8		min. Earth dist.	14638 Apr 20 09:15	14° 8 15'10	0.66724 AU
min. Earth dist.	14637 May 06 20:31	29° 8 38'15	0.67937 AU	inferior conj	14638 Apr 22 06:04	11° 8 59'32	1°18'47
inferior conj	14637 May 08 04:34	27° 8 54'24	2°02'33	minimum elong	14638 Apr 22 04:17	12° 8 04'57	1°17'34
minimum elong	14637 May 08 02:25	_		morning rise	14638 Apr 28 02:12	6° 8 17'55	1 1/34
morning rise	14637 May 13 16:45	22° 8 01'37	2 01 07	direct	14638 May 01 04:38	5° 8 23'57	
direct	14637 May 17 05:47	20° 8 49'31		morning max el	14638 May 07 15:50	8° 8 49'32	18°25'24
morning max el	14637 May 24 04:30	24° 8 36'40	19°10'31	desc. node	14638 May 20 18:07	26° 8 44'31	10 23 24
morning max cr	14637 May 28 20:51	0°П	17 1031	desc. Hode	14638 May 22 20:03	0°Ⅱ	
desc. node	14637 Jun 02 21:15	6° ∏ 54'38		morning set	14638 May 28 01:47	8° I 16'13	
greatest brilliancy	14637 Jun 06 01:50	11° Д 35'59	-0.7m	morning sec	14638 Jun 10 21:43	0°95	
morning set	14637 Jun 17 03:06	28° I I26'32	0.7111		14030 Juli 10 21.43	0.3	
morning sec	14637 Jun 18 03:20	0°95		superior conj	14638 Jun 12 20:00	3°900'33	-2°08'12
max. Earth dist.	14637 Jun 30 10:19	19° 5 06'14	1.45454 AU	minimum elong	14638 Jun 12 14:25	2°938'46	2°09'00
max. Dartii dist.	11037 3411 30 10.17	17 30011	1.101011110	max. Earth dist.	14638 Jun 13 06:06	3°939'57	1.45914 AU
superior conj	14637 Jul 03 11:08	23° © 52'47	-2°13'09	evening rise	14638 Jun 28 16:53	27° © 50'11	1.43714710
minimum elong	14637 Jul 03 13:15	24°901'04		evening rise	14638 Jun 30 01:55	0°Ω	
minimum ciong	14637 Jul 07 07:42	0°Ω	2 1103	greatest brilliancy	14638 Jul 07 22:54	12°Ω19'07	-0.8m
evening rise	14637 Jul 18 03:08	17° Ω 29'41		asc. node	14638 Jul 14 20:25	22° Ω 33'39	0.0111
e vening rise	14637 Jul 25 18:55	0° m)		use. Houe	14638 Jul 20 23:11	0° m	
asc. node	14637 Jul 27 23:42	3° mg 29'51		evening max el	14638 Jul 20 19:21	29° Ω 50'33	18°50'47
evening max el	14637 Aug 06 07:47	16° mp 05'53	18°18'14	retrograde	14638 Jul 27 11:39	3° m 29'39	10 30 17
retrograde	14637 Aug 12 16:43	19° mg 29'12	10 10 1 .	evening set	14638 Jul 30 20:15	2° m/24'43	
evening set	14637 Aug 15 16:15	18° Mp 40'25		evening sec	14638 Aug 02 14:50	30°R Ω	
inferior conj	14637 Aug 21 13:59	13° mg 10'25	2°13'46	inferior conj	14638 Aug 05 09:33	26°Ω41'50	2°46'53
minimum elong	14637 Aug 21 16:22	13° Mp 05'16	2°12'45	minimum elong	14638 Aug 05 11:26	26°Ω35'53	2°45'54
min. Earth dist.	14637 Aug 23 22:15	10° m) 29'46	0.64440 AU	min. Earth dist.	14638 Aug 07 03:39	24°Ω29'29	0.66235 AU
morning rise	14637 Aug 27 15:01	6° m 52'19	0.04440710	morning rise	14638 Aug 11 01:46	20°Ω16'38	0.00233710
desc. node	14637 Aug 29 18:53	5° m/25'41		desc. node	14638 Aug 16 16:22	17° Ω 39'32	
direct	14637 Sep 03 04:30	4° m) 16'31		direct	14638 Aug 17 08:01	17° Ω 37'56	
morning max el	14637 Sep 16 20:54	12° m) 14'14	27°28'07	morning max el	14638 Aug 30 08:21	25° Ω 21'19	26°30'12
morning max cr	14637 Oct 01 01:51	0° <u>م</u>	27 2007	morning max er	14638 Sep 03 14:12	0° m)	20 30 12
	14637 Oct 19 01:33	0° ™			14638 Sep 24 13:48	0∘ <u>ರ</u> ೧.۳	
morning set	14637 Oct 22 02:32	5°M52'20		morning set	14638 Oct 05 05:15	ა — 18° Ω 46'33	
asc. node	14637 Oct 24 01:42	9°M47'42		max. Earth dist.	14638 Oct 09 03:58	26° £ 23'04	1.34470 AU
max. Earth dist.	14637 Oct 26 16:48	15°M11'26	1.32836 AU	asc. node	14638 Oct 10 22:19	29° £ 54'01	1.54470710
max. Dartii dist.	11037 000 20 10.10	15 11011 20	1.52650110	use. Houe	14638 Oct 10 23:31	0° M	
superior conj	14637 Oct 30 05:28	22°M39'29	0°55'03		11030 000 10 23.31	0 110	
minimum elong	14637 Oct 30 03:14	22°M27'27	0°55'25	superior conj	14638 Oct 14 04:07	6°MJ31'14	0°29'50
minimum ciong	14637 Nov 02 14:57	0° √	0 33 23	minimum elong	14638 Oct 14 02:33	6°ML23'11	0°30'03
evening rise	14637 Nov 06 05:15	7° ∡ 745'58		evening rise	14638 Oct 21 14:37	22°M09'07	3 3 3 0 3
e vening rise	14637 Nov 17 17:44	0°る		evening rise	14638 Oct 25 10:19	0° ⊼ ⊓	
desc. node	14637 Nov 25 15:32	00 11° る 04'41		evening max el	14638 Nov 09 22:25		21°04'19
evening max el	14637 Nov 28 05:47	13°る49'44	22°40'16	desc. node	14638 Nov 12 12:45	26° ×7 19'31	VII)
retrograde	14637 Dec 11 05:11	20°る15'44	22 10 10	retrograde	14638 Nov 21 15:53	29° × 751'17	
evening set	14637 Dec 15 01:41	19° ප් 43'18		evening set	14638 Nov 24 06:32	29° × ⁷ 35'12	
min. Earth dist.	14637 Dec 22 14:07		0.54726 AU	inferior conj	14638 Dec 03 03:14	25° × ⁷ 42'32	-5°29'47
inferior conj	14637 Dec 23 12:09	15° පි 47'07		minimum elong	14638 Dec 02 18:59	25° × 54'13	
minimum elong	14637 Dec 23 12:11	15° ප් 47'05		min. Earth dist.	14638 Dec 03 19:46	25°×719'05	0.54479 AU
morning rise	14637 Dec 31 23:57	13 3 4703	J JUT1	morning rise	14638 Dec 11 07:49	21° x 1903	J.J 1717 AU
direct	14638 Jan 04 03:10	11° る 36'48		direct	14638 Dec 15 10:22	21° х 30°33	
morning max el	14638 Jan 15 19:25	17°る12'55	21°10'51	morning max el	14638 Dec 28 10:30	27° 🖈 32'26	22°53'58
asc. node	14638 Jan 20 01:12	21°る57'43	21 10 31	morning max or	14638 Dec 30 20:03	0°る	
use. Houe	14638 Jan 25 12:07	21 O 3/43 0° ≈		asc. node	14639 Jan 06 22:27	0 8 9° る 24'30	
morning set	14638 Feb 04 13:48	0 ∞ 19°≈15'00		abe. Houe	14639 Jan 18 03:30	9° ≈	
morning set	14638 Feb 09 16:43	0° ∺		morning set	14639 Jan 20 01:07	0 ≈ 3°≈59'59	
	17030100 07 10.43	υ Λ		morning set	1703) Jan 20 01.0/	5 ~ 5757	
superior conj	14638 Feb 11 21:12	4°) €33'08	1°14'26	superior conj	14639 Jan 26 23:51	18° ≈ 57'24	1°28'32
minimum elong	14638 Feb 11 23:43	4°) 46'06	1°14'39	minimum elong	14639 Jan 27 01:40	19°≈07'07	1°29'09
max. Earth dist.	14638 Feb 16 16:08		1.35302 AU	max. Earth dist.	14639 Jan 30 08:39	26°≈04'11	1.33537 AU
Larun dist.	1.050100 10 10.00	1. /(15.56	1.55502710	Dartii dist.	- 105 y wiii 50 00.57	20.0711	1.55557 110

minimum elong	14640 Dec 25 18:01	18° る 13'10	1°38'49	superior conj	14641 Dec 10 05:51	2° る 54'49	1°33'25
max. Earth dist.	14640 Dec 26 14:31	20°පි07'16	1.31402 AU	minimum elong	14641 Dec 10 04:36	2°る47'51	1°34'22
max. Dartii dist.	14640 Dec 31 02:39	0°≈	1.51 102 110	max. Earth dist.	14641 Dec 09 22:43	2°る14'53	1.31105 AU
evening rise	14641 Jan 01 17:29	3°≈26'31		evening rise	14641 Dec 16 23:42	17° る 48'20	1.51105110
desc. node	14641 Jan 12 06:03	23°≈46'50		V V V V V V V V V V V V V V V V V V V	14641 Dec 22 22:30	0° ≈	
	14641 Jan 15 22:29	0°) €		desc. node	14641 Dec 30 02:52	12° ≈ 56'53	
evening max el	14641 Feb 02 09:46	22°) 50'11	27°23'02		14642 Jan 11 04:19	0°) €	
C	14641 Feb 14 11:11	0° Υ		evening max el	14642 Jan 15 11:10	4°) 31′02	26°36'39
retrograde	14641 Feb 16 09:14	0° Y ′09'39		retrograde	14642 Jan 29 10:27	11° ¥ 39'53	
-	14641 Feb 18 06:32	30° ₹		evening set	14642 Feb 04 22:24	9° ¥ 56′08	
evening set	14641 Feb 23 04:52	28°) 02′59		min. Earth dist.	14642 Feb 09 00:51	7°) 18'44	0.58809 AU
min. Earth dist.	14641 Feb 27 00:06	25°) 14′07	0.61009 AU	inferior conj	14642 Feb 12 04:53	4°) 53′49	-3°31'28
inferior conj	14641 Mar 02 03:20	22°) €28'57	-2°04'56	minimum elong	14642 Feb 12 12:38	4°) 38′59	3°28'14
minimum elong	14641 Mar 02 07:51	22°) (19′00	2°02'54	morning rise	14642 Feb 20 06:04	0°) €20'08	
asc. node	14641 Mar 08 14:08	17° ¥ 55′09		direct	14642 Feb 22 06:11	0° ₩ 05'57	
morning rise	14641 Mar 09 14:00	17°) ₹34'01		asc. node	14642 Feb 23 11:37	0°) 11′28	
direct	14641 Mar 11 16:47	17° ∺ 15'17		morning max el	14642 Mar 02 04:59	4°) €01'48	18°20'15
morning max el	14641 Mar 18 17:50	20°) 47′39	17°53'31	morning set	14642 Mar 17 22:56	29° ∺ 07'55	
	14641 Mar 25 16:10	0° Y			14642 Mar 18 09:54	0° Y	
morning set	14641 Apr 03 08:34	15° Y 10′05					
desc. node	14641 Apr 10 08:08	27° Y ′43'34		superior conj	14642 Mar 27 07:26	16° Ƴ 40'41	0°07'14
	14641 Apr 11 15:06	$0^{\circ}S$		minimum elong	14642 Mar 27 07:57	16° Ƴ 43'03	0°06'58
				behind sun begin	14642 Mar 27 01:18	16° Y 12'43	
superior conj	14641 Apr 14 01:26	4° 8 13'59		behind sun end	14642 Mar 27 14:35	17° Y 13′18	
minimum elong	14641 Apr 13 22:46	4° 8 02'28		desc. node	14642 Mar 28 04:41	18° Y 17'13	
max. Earth dist.	14641 Apr 21 10:48	16° 8 39'59	1.43014 AU		14642 Apr 03 20:36	0°8	
evening rise	14641 Apr 27 17:44	26° 8 45'38		max. Earth dist.	14642 Apr 03 20:55	0° 8 01'22	1.40968 AU
	14641 Apr 29 19:28	0°II		evening rise	14642 Apr 08 09:08	7° 8 33'50	
	14641 May 20 09:59	0.22			14642 Apr 22 21:24	0°П	
evening max el	14641 May 29 22:27	11°523'19	21°57'36	evening max el	14642 May 12 13:51	25° Ⅱ 15'26	23°18'04
asc. node	14641 Jun 04 11:14	15°5546'44		ī	14642 May 18 10:21	0°©	
retrograde	14641 Jun 08 06:51	16°951'41		asc. node	14642 May 22 08:23	1° © 24'34 1° © 27'08	
evening set	14641 Jun 12 22:32	14°956'00	2005104	retrograde	14642 May 23 02:36	1°€02/08 30°R I I	
inferior conj	14641 Jun 18 04:41 14641 Jun 18 03:45	8° © 38'09 8° © 41'24	3°05'04 3°03'57	avanina aat	14642 May 27 07:45 14642 May 28 05:48	30°KⅡ 29°Ⅱ16'45	
minimum elong min. Earth dist.	14641 Jun 18 05:31	8°935'14	0.68992 AU	evening set min. Earth dist.	14642 Jun 02 02:17	29 II 10 43 23° II 32'43	0.68952 AU
morning rise	14641 Jun 23 08:48	2°\$23'33	0.08992 AU	inferior conj	14642 Jun 02 14:23	22° I I50'59	2°49'00
direct	14641 Jun 28 04:48	0°\$20'06		minimum elong	14642 Jun 02 12:42	22° II 56'45	2°47'43
desc. node	14641 Jul 07 08:26	5° © 32'53		morning rise	14642 Jun 07 19:33	16° Ⅱ 43'59	2 4/43
morning max el	14641 Jul 07 18:10		22°15'39	direct	14642 Jun 12 03:00	15° Ⅱ 00′29	
moning man vi	14641 Jul 26 06:46	0°Ω	10 3 /	morning max el	14642 Jun 20 11:30	19° Ⅱ 47'21	20°53'40
morning set	14641 Aug 09 22:52	22° Ω 33'24		desc. node	14642 Jun 24 05:35	23° I 55'43	
	14641 Aug 14 11:47	0° m)			14642 Jun 28 23:42	0°9	
max. Earth dist.	14641 Aug 15 04:47		1.41243 AU		14642 Jul 19 10:23	0°N	
	· ·	•		morning set	14642 Jul 20 14:45	1° Q 50′03	
superior conj	14641 Aug 23 00:29	14° m 41'03	-1°10'45	max. Earth dist.	14642 Jul 28 11:55	14° Ω 20'11	1.43299 AU
minimum elong	14641 Aug 23 05:59	15° m 05'32	1°10'19				
	14641 Aug 31 09:45	0∘ ⊽		superior conj	14642 Aug 04 09:43	25° Ω 44′07	-1°43'35
asc. node	14641 Aug 31 12:03	0° ہ 10'43		minimum elong	14642 Aug 04 17:11	26° Ω 15'37	1°43'29
evening rise	14641 Sep 02 09:01	3° ≏ 40'27			14642 Aug 06 22:04	0° m	
evening max el	14641 Sep 18 07:33	29° ≙ 10'15	18°16'43	evening rise	14642 Aug 16 08:18	16°M)28'42	
	14641 Sep 19 04:39	0° M		asc. node	14642 Aug 18 08:38	20° My $03'02$	
retrograde	14641 Sep 25 16:29	2°M55'18			14642 Aug 24 02:19	0∘ ⊽	
evening set	14641 Sep 27 18:55	2° ™ 37'40		evening max el	14642 Sep 01 19:59	12° ≏ 11'36	18°02'39
	14641 Oct 02 16:41	30°Ŗ 죠		retrograde	14642 Sep 08 11:52	15° ≏ 37'39	
desc. node	14641 Oct 03 04:54	29° ≏ 36'52		evening set	14642 Sep 10 21:49	15° ≏ 10′27	
inferior conj	14641 Oct 05 06:22	27° ≏ 56′28		inferior conj	14642 Sep 17 16:06	10° ≏ 09'15	0°44'23
minimum elong	14641 Oct 05 04:56	27° ♀ 59'29		minimum elong	14642 Sep 17 17:25	10° ≏ 06'03	0°43'58
min. Earth dist.	14641 Oct 08 13:05	25° £ 12'34	0.58731 AU	desc. node	14642 Sep 20 02:23	7° Ω 47'56	0.6100= :=:
morning rise	14641 Oct 12 11:31	22° Ω 29'31		min. Earth dist.	14642 Sep 20 18:37	7° £ 09'55	0.61005 AU
direct	14641 Oct 18 20:22	20° Ω 41'13	27027170	morning rise	14642 Sep 24 10:07	4° £ 13'38	
morning max el	14641 Nov 02 03:38	28° £ 21'36	21~27'59	direct	14642 Oct 01 01:22	2° 2 01'02	07057140
	14641 Nov 03 18:28	0°M. 0°. ₹		morning max el	14642 Oct 15 07:05	9° ≏ 56'18	27°57'43
aga m-J-	14641 Nov 24 09:21	0° 🗷 5° ⋅ 🗷 50'1 5		aaa m-J-	14642 Oct 30 21:20	0°M	
asc. node	14641 Nov 27 13:39	5° × 759'15		asc. node	14642 Nov 14 10:29	25°M41′23 0° ⊀	
morning set	14641 Dec 03 07:39 14641 Dec 08 22:35	17° メ *41'42 0° る		morning set	14642 Nov 16 13:37 14642 Nov 17 10:36	0° x' 1° x 748'30	
	1TUT1 DUC U0 22.33	v		morning set	17072 INUV 1/ 10.30	1 7 40 30	

max. Earth dist.	14642 Nov 23 05:28	14° ₹ 15'10	1.31343 AU	max. Earth dist.	14643 Nov 06 06:44 14643 Nov 08 03:43	25° M 57'47 0° √	1.32129 AU
superior conj	14642 Nov 24 16:30	17° ∡ ¹29'09	1°23'10				
minimum elong	14642 Nov 24 14:31	17° ∡ 18′09	1°23'54	superior conj	14643 Nov 09 00:15	1° ∡ 751'37	1°07'01
	14642 Nov 30 08:01	0°ප		minimum elong	14643 Nov 08 21:56	1° ∡ ³39′02	1°07'30
evening rise	14642 Dec 01 09:14	2°る17'00		evening rise	14643 Nov 15 20:09	16° ∡ 747′06	
	14642 Dec 16 01:43	0°≈			14643 Nov 22 06:25	0°ರ	
desc. node	14642 Dec 16 23:47	1° ≈ 25′00		desc. node	14643 Dec 03 20:48	18° る 55'12	
evening max el	14642 Dec 28 03:56	15° ≈ 18'37	25°18'18	evening max el	14643 Dec 09 14:17	25° る 26'25	23°39'33
retrograde	14643 Jan 11 00:17	22°≈16′06			14643 Dec 15 13:18	0° ≈ ≈	
evening set	14643 Jan 16 18:55	21° ≈ 00′26		retrograde	14643 Dec 23 01:11	2° ≈ 07'17	
min. Earth dist.	14643 Jan 21 16:11	18° ≈ 19'11	0.56799 AU	evening set	14643 Dec 27 16:07	1°≈20'51	
inferior conj	14643 Jan 24 10:04	16° ≈ 30'10		<i>8</i>	14643 Dec 30 21:52	30°Rる	
minimum elong	14643 Jan 24 19:06	16°≈15'12		min. Earth dist.	14644 Jan 03 01:13	28° る 16'57	0.55270 AU
morning rise	14643 Feb 01 21:53	12°≈18'31	. 5512	inferior conj	14644 Jan 04 18:44	27° る 15'43	
direct	14643 Feb 04 01:06	12°≈05'12		minimum elong	14644 Jan 04 23:43	27° ろ 08'21	5°47'45
asc. node	14643 Feb 10 09:01	14°≈11'10		morning rise	14644 Jan 13 09:00	23° る 21'41	3 47 43
morning max el	14643 Feb 13 06:54	16°≈34'55	19°08'26	direct	14644 Jan 16 00:25	23°る2141 23°る04'27	
morning max er	14643 Feb 22 20:16	10 ≈3433 0° H	19 08 20	morning max el	14644 Jan 26 19:40	23 3 0427 28° る 16'07	20°19'39
		0 X 13° ¥ 30'18		•			20 19 39
morning set	14643 Mar 01 23:00	13° X 30°18		asc. node	14644 Jan 28 06:22	29° る 45'01	
	1464234 10 07 00	2001/55115	0000100		14644 Jan 28 11:50	0°≈	
superior conj	14643 Mar 10 07:09	29°) 55'15	0°38'33	morning set	14644 Feb 14 05:23	28°≈07'23	
minimum elong	14643 Mar 10 09:21	0° Υ 05'53	0°38'17		14644 Feb 15 03:18	0° ∀	
	14643 Mar 10 08:08	0° Υ					
desc. node	14643 Mar 15 01:13	8° Y 51'27		superior conj	14644 Feb 21 20:08	13° ¥ 45′01	1°03'16
max. Earth dist.	14643 Mar 17 03:23	12° Ƴ 39'12	1.38705 AU	minimum elong	14644 Feb 21 22:48	13° ¥ 58′25	1°03'16
evening rise	14643 Mar 20 21:43	19° Ƴ 16'47		max. Earth dist.	14644 Feb 27 10:18	24°) 43′39	1.36477 AU
	14643 Mar 27 07:55	$_{0\circ}$ 8		desc. node	14644 Feb 29 21:44	29° ∺ 22'35	
	14643 Apr 17 02:16	Π $^{\circ}0$			14644 Mar 01 05:51	0 ° Υ	
evening max el	14643 Apr 25 03:24	9° Ⅱ 08'37	24°38'24	evening rise	14644 Mar 02 05:28	1° Ƴ 48'02	
retrograde	14643 May 06 18:53	15° Ⅱ 57′01			14644 Mar 19 10:15	0° 8	
asc. node	14643 May 09 05:36	15° Ⅱ 31′08		evening max el	14644 Apr 06 16:55	23° 8 01'14	25°51'32
evening set	14643 May 12 09:36	13° Ⅱ 34'54			14644 Apr 17 05:24	$\Pi^{\circ}0$	
min. Earth dist.	14643 May 16 21:38	8° Ⅲ 27′27	0.68437 AU	retrograde	14644 Apr 19 06:38	0° Ⅱ 14'55	
inferior conj	14643 May 17 22:28	7° Ⅱ 04'33	2°22'36	_	14644 Apr 21 05:50	30° ₹ 8	
minimum elong	14643 May 17 20:22	7° Ⅱ 11'36	2°21'11	evening set	14644 Apr 25 08:17	27° 8 45'16	
morning rise	14643 May 23 07:20	1° Ⅱ 06'14		asc. node	14644 Apr 25 02:53	27° 8 56'22	
C	14643 May 25 09:15	30° ₹ 8		min. Earth dist.	14644 Apr 29 13:33	23° 8 13'25	0.67468 AU
direct	14643 May 27 02:46	29° 8 43'06		inferior conj	14644 May 01 03:02	21° 8 15'02	1°45'26
	14643 May 28 21:40	0°II		minimum elong	14644 May 01 00:57	21° 8 21'37	1°44'02
morning max el	14643 Jun 03 11:53	3° Ⅱ 48'52	19°43'48	morning rise	14644 May 06 18:15	15° 8 26'39	
desc. node	14643 Jun 11 02:38	13° I 01'04	15 15 16	direct	14644 May 10 02:34	14° 8 22'40	
greatest brilliancy	14643 Jun 16 09:11	20° ∏ 29'49	-0.6m	morning max el	14644 May 16 19:34	17° 8 59'29	18°49'14
greatest offinancy	14643 Jun 22 18:30	0°95	0.0111	morning max cr	14644 May 26 04:56	0°Ⅱ	10 47 14
morning set	14643 Jun 29 17:30	10°935'47		desc. node	14644 May 27 23:34	2° Ⅱ 37'48	
max. Earth dist.	14643 Jul 11 01:04	28°912'35	1.44846 AU	greatest brilliancy	14644 May 30 14:52	6° П 36'59	-0.8m
max. Earm dist.	14643 Jul 12 04:11	28 3 12 33	1.44640 AU	morning set	14644 Jun 08 03:38	19° Ⅱ 47'59	-0.6111
	14043 Jul 12 04.11	0 86		morning set	14644 Jun 14 17:01	19 П 4/39	
superior conj	14643 Jul 15 19:12	5° Ω 47'29	2006155	max. Earth dist.	14644 Jun 22 18:48	12° 9 35'08	1.45737 AU
minimum elong				max. Earth dist.	14044 Juli 22 16.46	12 33308	1.43/3/ AU
2	14643 Jul 16 00:49	6° Ω 10'06	2-07-32		14644 1 24 00 25	1500000140	2012124
evening rise	14643 Jul 29 12:12	28° Ω 25'13		superior conj	14644 Jun 24 09:35	15°506'48	
	14643 Jul 30 10:40	0° Mp		minimum elong	14644 Jun 24 08:21	15° © 01'55	2°14'35
asc. node	14643 Aug 05 05:14	9° mp 41'02			14644 Jul 03 20:03	0° Ω	
evening max el	14643 Aug 16 10:32	25° m 35'58	18°07'25	evening rise	14644 Jul 09 16:14	9° Ω 20'54	
retrograde	14643 Aug 22 19:26	28° m 56'34		asc. node	14644 Jul 22 01:55	28° Ω 59'38	
evening set	14643 Aug 25 13:49	28° Mp 16'30			14644 Jul 22 18:08	0° m)	
inferior conj	14643 Aug 31 18:01	22° Mp 57'46	1°46'49	evening max el	14644 Jul 30 00:03	9° m) 15'48	18°30'03
minimum elong	14643 Aug 31 20:22	22° m 51'19	1°45'52	retrograde	14644 Aug 05 11:08	12° m)44'10	
min. Earth dist.	14643 Sep 03 10:00	20° Mp 03'43	0.63243 AU	evening set	14644 Aug 08 14:25	11° M)48'48	
desc. node	14643 Sep 06 23:54	16° Mp 45'47		inferior conj	14644 Aug 14 08:10	6° Mp 14′27	2°29'48
morning rise	14643 Sep 07 00:54	16° Mp 43'53		minimum elong	14644 Aug 14 10:25	6° ™ 07'39	2°28'46
direct	14643 Sep 13 16:35	14° Mp 13'42		min. Earth dist.	14644 Aug 16 10:36	3° m 43'05	0.65250 AU
morning max el	14643 Sep 27 15:38	22° Mp 14'44	27°48'49	morning rise	14644 Aug 20 05:12	29° Q 51'31	
	14643 Oct 04 11:35	0∘ ⊽			14644 Aug 20 01:09	30° R Ω	
	14643 Oct 24 02:21	0°M₊		desc. node	14644 Aug 23 21:24	27° Ω 41′28	
morning set	14643 Nov 01 06:22	15°M32'20		direct	14644 Aug 26 16:12	27° Ω 13'01	
asc. node	14643 Nov 01 07:14	15°M36'40			14644 Sep 03 03:28	0° m)	

morning max el	14644 Sep 09 02:28 14644 Sep 28 02:32	5°№06'46 0°₽	27°06'26	morning max el	14645 Aug 22 13:36 14645 Sep 01 09:30	18° Ω 21'13 0° m	25°58'53
morning set	14644 Oct 14 16:15 14644 Oct 15 07:20	28° £ 46'44 0° ™		morning set	14645 Sep 21 02:46 14645 Sep 27 12:50	0° <u>ჲ</u> 11° ჲ 23'55	
asc. node	14644 Oct 18 03:55	5°M40'17		max. Earth dist.	14645 Oct 01 06:09	18° £ 24'28	1.35310 AU
max. Earth dist.	14644 Oct 18 23:15	7°M18'19	1.33466 AU	asc. node	14645 Oct 05 00:33	25° £ 48'08	1.55510 AO
	14644 0 + 22 02 57	1.50 m 5.612.5	0045102		14645 0 4 06 22 01	200 0 27124	0017121
superior conj minimum elong	14644 Oct 23 02:57 14644 Oct 23 00:54	15°M56'35 15°M45'45	0°45'03 0°45'20	superior conj	14645 Oct 06 22:01 14645 Oct 06 21:01	29° £ 37'34 29° £ 32'28	0°17'31 0°17'45
minimum eiong	14644 Oct 29 16:40	15°111645'45	0-45/20	minimum elong	14645 Oct 06 21:01 14645 Oct 07 02:26	29° 32 32′28 0°M	0-1/45
evening rise	14644 Oct 30 06:38	1° x ¹ 14'13		evening rise	14645 Oct 14 14:43	15°M33'26	
evening rise	14644 Nov 15 08:22	0°る		evening rise	14645 Oct 21 22:24	0° √	
desc. node	14644 Nov 19 17:56	5° そ 06'51		evening max el	14645 Nov 02 00:09	15° 🖈 55'35	20°28'44
evening max el	14644 Nov 20 01:59	5° る 26'50	21°57'50	desc. node	14645 Nov 06 15:10	19° √ 33'34'41	20 20 11
retrograde	14644 Dec 02 14:20	11° る 38'31	21 0,00	retrograde	14645 Nov 13 01:03	21° × ² 25'04	
evening set	14644 Dec 05 20:55	11° る 14'39		evening set	14645 Nov 15 07:19	21° х 12'18	
inferior conj	14644 Dec 14 12:48	7° る 22'03	-5°54'36	inferior conj	14645 Nov 24 04:58	17° √ 17'24	-4°59'44
minimum elong	14644 Dec 14 08:49	7° る 27'36	5°53'16	minimum elong	14645 Nov 23 19:06	17° ∡ ³31'44	4°56'22
min. Earth dist.	14644 Dec 14 07:11	7° る 29'53	0.54506 AU	min. Earth dist.	14645 Nov 25 13:18	16° ∡ ³30'19	0.54663 AU
morning rise	14644 Dec 22 21:36	3° ⋜ 34'38		morning rise	14645 Dec 02 06:34	13° ∡ 18′20	
direct	14644 Dec 26 10:36	3° る 06'57		direct	14645 Dec 06 19:28	12° ∡ °34′07	
morning max el	14645 Jan 07 17:39	9° ට 01'55	21°52'53	morning max el	14645 Dec 20 04:58	19° ∡ °07'07	23°40'45
asc. node	14645 Jan 14 03:40	16° る 35'59			14645 Dec 29 04:05	ರ°0	
	14645 Jan 22 06:06	0° ≈		asc. node	14646 Jan 01 00:55	4° る 26'36	
morning set	14645 Jan 28 15:31	12° ≈ 51'29		morning set	14646 Jan 13 03:23	27° る 37'01	
					14646 Jan 14 06:00	0° ≈	
superior conj	14645 Feb 04 18:40	27° ≈ 59'16	1°21'12				
minimum elong	14645 Feb 04 20:56	28° ≈ 11'10	1°21'36	superior conj	14646 Jan 19 23:49		1°32'34
	14645 Feb 05 17:44	0° ₩		minimum elong	14646 Jan 20 01:14	12° ≈ 37'35	1°33'18
max. Earth dist.	14645 Feb 08 22:40	6°) 34′56	1.34505 AU	max. Earth dist.	14646 Jan 22 18:53	18° ≈ 29'49	1.32923 AU
evening rise	14645 Feb 13 04:52	14° ¥ 57'35		evening rise	14646 Jan 27 16:32	28°≈36'53	
desc. node	14645 Feb 15 18:16	19°) 46′16			14646 Jan 28 09:14	0°) (₹011.6	
	14645 Feb 21 12:36	0° Υ		desc. node	14646 Feb 02 14:52	9°) ₹58'16	
	14645 Mar 14 01:55	0°8	26040156		14646 Feb 14 16:32	0°Υ 20°Υ11'36	27026100
evening max el	14645 Mar 20 06:49	6° 8 45'46 14° 8 12'08	26°49'56	evening max el	14646 Mar 02 20:02 14646 Mar 16 12:13	20°γ11'36 27° Υ 40'34	27°26'08
retrograde evening set	14645 Apr 02 12:42 14645 Apr 08 23:58	11° 8 40'06		retrograde evening set	14646 Mar 23 06:30	27 1 40 34 25°Υ12'18	
asc. node	14645 Apr 12 00:17	8° 8 48'06		min. Earth dist.	14646 Mar 27 02:19	23° 12° 12° 12° 12°	0.64324 AU
min. Earth dist.	14645 Apr 12 23:47		0.66079 AU	inferior conj	14646 Mar 29 16:13	19° Υ 01'41	
inferior conj	14645 Apr 15 01:48	5° 8 16'07		minimum elong	14646 Mar 29 16:22	19° Υ 01'19	0°04'35
minimum elong	14645 Apr 15 00:24	5° 8 20'14		transit middle	14646 Mar 29 16:22	19° Υ 01'19	0°04'35
	14645 Apr 20 12:01	30° R Υ		transit begin	14646 Mar 29 13:24	19° Y ′09'14	
morning rise	14645 Apr 21 02:07	29° Y ′39'28		transit end	14646 Mar 29 19:20	18° Y 53'25	
direct	14645 Apr 24 00:22	28° Y ′52'19		asc. node	14646 Mar 29 21:43	18° Ƴ 47'03	
	14645 Apr 27 14:34	0° 8		morning rise	14646 Apr 05 04:18	13° Y 39'11	
morning max el	14645 Apr 30 09:06	2° 8 12'46	18°11'16	direct	14646 Apr 07 17:42	13° Y 05'49	
desc. node	14645 May 14 20:23	22° 8 36'37		morning max el	14646 Apr 14 02:11	16° Y 21′56	17°50'23
	14645 May 19 10:55	Π °0			14646 Apr 23 23:44	9° 8	
morning set	14645 May 19 13:50	0° Ⅱ 11'42		morning set	14646 May 01 03:50	11° 8 55'36	
		_		desc. node	14646 May 01 17:07	12° 8 51'22	
superior conj	14645 Jun 03 18:13	24° Ⅱ 17'08			14646 May 12 01:57	$\Pi^{\circ}0$	
minimum elong	14645 Jun 03 10:24	23° I I46'30			1464634 14.14	40 T 0 212 0	1020110
max. Earth dist.	14645 Jun 05 15:05		1.45886 AU	superior conj	14646 May 14 14:17	4° Ⅱ 03'20	
	14645 Jun 07 10:02	0° © 19° © 18'19		minimum elong	14646 May 14 05:49	3° ∏ 29′20	
evening rise	14645 Jun 19 20:13			max. Earth dist.	14646 May 19 11:06	11° Π 47'51	1.45286 AU
greatest brilliancy	14645 Jun 26 18:04 14645 Jul 01 06:46	0° Ω 6° Ω 54'43	-0.7m	evening rise	14646 May 30 08:56 14646 May 31 04:55	28°Ⅲ43'38 0°©	
asc. node	14645 Jul 08 22:41	17° Ω 51'16	-0.7111	greatest brilliancy	14646 Jun 14 05:25	20°\$58'22	-0.6m
evening max el	14645 Jul 13 09:52	23°Ω03'44	19°09'44	groundst offinality	14646 Jun 20 17:20	20 33 8 22 0° Ω	0.0111
retrograde	14645 Jul 20 07:37	26°Ω52'53	27 07 77	asc. node	14646 Jun 25 19:34	6° Ω 06'40	
evening set	14645 Jul 23 20:20	25° Ω 40'39		evening max el	14646 Jun 26 14:12	6° Ω 54'35	20°05'06
inferior conj	14645 Jul 29 07:05		2°56'16	retrograde	14646 Jul 04 06:25	11° Ω 16'33	
minimum elong	14645 Jul 29 08:37	19° Ω 47'13	2°55'17	evening set	14646 Jul 08 05:03	9° Ω 46'58	
min. Earth dist.	14645 Jul 30 19:07	17° Ω 55'46	0.66886 AU	inferior conj	14646 Jul 13 11:55	3° Ω 45'41	3°08'53
morning rise	14645 Aug 03 20:15	13° £ 26′51		minimum elong	14646 Jul 13 12:29	3° Ω 43'43	3°07'56
direct	14645 Aug 09 22:38	10° Ω 49'29		min. Earth dist.	14646 Jul 14 09:48	2° Ω 31'24	0.68076 AU
desc. node	14645 Aug 10 18:53	10° Ω 52'11			14646 Jul 16 08:29	30° ₹ 5	

	14646 7 1 10 10 25	270622121			146477 200 14 22	240502150	
morning rise	14646 Jul 18 19:35	27°522'21		evening set	14647 Jun 22 14:33	24°902'50	200012.5
direct	14646 Jul 24 10:55	24° © 53'59		inferior conj	14647 Jun 27 20:16	17° © 50'19	3°09'35
desc. node	14646 Jul 28 16:18	26° © 01'55		minimum elong	14647 Jun 27 19:51	17° © 51'45	3°08'34
	14646 Aug 03 03:00	0 $^{\circ}$ Ω		min. Earth dist.	14647 Jun 28 04:37	17° © 21'13	0.68790 AU
morning max el	14646 Aug 05 00:19	1° Ω 49'19	24°35'38	morning rise	14647 Jul 03 00:55	11° © 31'49	
	14646 Aug 26 09:56	0° m y		direct	14647 Jul 08 04:00	9° © 18'11	
morning set	14646 Sep 09 16:00	23° m 14'17		desc. node	14647 Jul 15 13:38	12° © 44'46	
	14646 Sep 13 11:04	0∘ ⊽		morning max el	14647 Jul 18 11:28	15° © 25'48	23°06'17
max. Earth dist.	14646 Sep 13 06:03	29° m 37'17	1.37534 AU		14647 Jul 30 09:42	$0^{\circ}\Omega$	
					14647 Aug 19 09:00	o° m y	
superior conj	14646 Sep 20 06:13	12° - 46′25	-0°14'49	morning set	14647 Aug 21 21:25	4° m) 07'57	
minimum elong	14646 Sep 20 07:11	12° ♀ 51'10	0°14'30	max. Earth dist.	14647 Aug 26 04:37	11° m) 23'27	1.39910 AU
behind sun begin	14646 Sep 20 04:12	12° ≏ 36'42				•	
behind sun end	14646 Sep 20 10:10	13° ഫ 05'38		superior conj	14647 Sep 02 23:36	25° m) 14'24	-0°50'11
asc. node	14646 Sep 21 21:08	15° ≏ 56'18		minimum elong	14647 Sep 03 03:23	25° m/31'46	
evening rise	14646 Sep 28 18:04	29° ₽ 38'31		minimum ciong	14647 Sep 05 03:23	0° ت	0 1711
evening rise	•	0°M		asc. node	•	0 = 6° ჲ 01'31	
	14646 Sep 28 22:21		10020110		14647 Sep 08 17:42		
evening max el	14646 Oct 15 12:36	27°M11'30	19°20'10	evening rise	14647 Sep 12 13:40	13° ≏ 22'01	
	14646 Oct 18 22:25	0° ∡ 7			14647 Sep 21 16:29	0°M	
retrograde	14646 Oct 24 22:18	1° ∡ 754'21		evening max el	14647 Sep 28 13:41	9° ™ 15'59	18°33'47
desc. node	14646 Oct 24 12:31	1° ∡ 753′50		retrograde	14647 Oct 06 13:39	13°M18'35	
evening set	14646 Oct 26 19:16	1° ∡ ¹43'55		evening set	14647 Oct 08 12:27	13° M 04'56	
	14646 Oct 31 10:37	30°RM		desc. node	14647 Oct 11 09:56	11° M 58'53	
inferior conj	14646 Nov 04 09:23	27°M35'01	-3°23'06	inferior conj	14647 Oct 16 10:25	8° ጤ 36'14	-1°36'13
minimum elong	14646 Nov 04 00:57	27°M48'53	3°19'17	minimum elong	14647 Oct 16 06:34	8° M 43'37	1°34'06
min. Earth dist.	14646 Nov 06 22:58	25°M54'03	0.55726 AU	min. Earth dist.	14647 Oct 19 15:01	6° ጤ 10'10	0.57504 AU
morning rise	14646 Nov 12 04:20	23°M05'29		morning rise	14647 Oct 23 21:13	3° M 29'07	
direct	14646 Nov 17 14:01	21°M59'08		direct	14647 Oct 29 23:19	1°M56'04	
morning max el	14646 Dec 01 14:37	29°M03'55	25°27'17	morning max el	14647 Nov 13 05:56	9°M26'08	26°53'20
	14646 Dec 02 13:32	0° ∡ ¹			14647 Nov 28 21:44	0° ∡ 7	
asc. node	14646 Dec 18 22:03	23° × ⁷ 01'17		asc. node	14647 Dec 05 19:05	12° х 08′52	
use. Houe	14646 Dec 22 15:42	0°る		morning set	14647 Dec 13 00:46	26° × 48'16	
morning set	14646 Dec 28 15:04	12°る17'28		morning sec	14647 Dec 14 12:16	20 メ 1 010	
morning set	14040 DCC 28 13.04	12 01/28			14047 DCC 14 12.10	00	
gunariar aani	14647 Ion 04 00:04	270₹00150	1027'20	gunarior agni	14647 Dag 10 20:20	110=350100	1026140
superior conj	14647 Jan 04 09:04	27°る08'50	1°37'39	superior conj	14647 Dec 19 20:20	11°る50'08	1°36'40
superior conj minimum elong	14647 Jan 04 09:25	27° る 10'48	1°37'39 1°38'36	minimum elong	14647 Dec 19 19:38	11° る 46'13	1°37'40
minimum elong	14647 Jan 04 09:25 14647 Jan 05 16:05	27° ට 10'48 0°≈	1°38'36	minimum elong max. Earth dist.	14647 Dec 19 19:38 14647 Dec 20 04:52	11°පි46'13 12°පි37'49	
minimum elong max. Earth dist.	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48	27° ප් 10'48 0°≈ 0°≈31'28		minimum elong	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43	11°ප්46'13 12°ප්37'49 26°ප්52'26	1°37'40
minimum elong max. Earth dist. evening rise	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19	27°る10'48 0°≈ 0°≈31'28 12°≈37'07	1°38'36	minimum elong max. Earth dist. evening rise	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24	11° 5 46'13 12° 5 37'49 26° 5 52'26 0°≈	1°37'40
minimum elong max. Earth dist.	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03	1°38'36	minimum elong max. Earth dist.	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17	11°ත්46'13 12°ත්37'49 26°ත්52'26 0°≈ 19°≈20'30	1°37'40
minimum elong max. Earth dist. evening rise	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19	27° ♂ 10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0° 米	1°38'36	minimum elong max. Earth dist. evening rise	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24	11° 5 46'13 12° 5 37'49 26° 5 52'26 0°≈	1°37'40
minimum elong max. Earth dist. evening rise	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03	1°38'36	minimum elong max. Earth dist. evening rise	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17	11°ත්46'13 12°ත්37'49 26°ත්52'26 0°≈ 19°≈20'30	1°37'40 1.31205 AU
minimum elong max. Earth dist. evening rise	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19	27° ♂ 10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0° 米	1°38'36	minimum elong max. Earth dist. evening rise desc. node	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37	11°₹46'13 12°₹37'49 26°₹52'26 0°≈ 19°≈20'30 0°¥	1°37'40 1.31205 AU
minimum elong max. Earth dist. evening rise desc. node	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02	27°₹10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°₩ 0°Υ	1°38'36 1.31807 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Jan 26 11:49	11°♂46'13 12°♂37'49 26°♂52'26 0°≈ 19°≈20'30 0°⊁ 15°⊁14'48	1°37'40 1.31205 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°升 0°Ŷ 3°Ŷ05'07	1°38'36 1.31807 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Jan 26 11:49 14648 Feb 09 11:51	11°정46'13 12°정37'49 26°정52'26 0°≈ 19°≈20'30 0°光 15°光14'48 22°米30'53	1°37'40 1.31205 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53	1°38'36 1.31807 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 16 05:07	11°♂46'13 12°♂37'49 26°♂52'26 0°≈ 19°≈20'30 0° ¥ 15° ¥14'48 22° ¥30'53 20° ¥32'58	1°37'40 1.31205 AU 27°07'31 0.60060 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53	1°38'36 1.31807 AU 27°33'39 0.62271 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 20 02:13	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0°¥ 15°¥14'48 22°¥30'53 20°¥32'58 17°¥50'34	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 20 02:13 14648 Feb 23 06:58	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0°米 15°米14'48 22°米30'53 20°米32'58 17°米50'34 15°米11'38	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 20 02:13 14648 Feb 23 12:54 14648 Mar 02 00:03	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0°米 15°米14'48 22°米30'53 20°米32'58 17°米50'34 15°米11'38 14°米59'16 10°米25'47	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 20 02:13 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0°米 15°米14'48 22°米30'53 20°米32'58 17°米50'34 15°米11'38 14°米59'16 10°米25'47 10°米16'41	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0°¥ 15°¥14'48 22°¥30'53 20°¥32'58 17°¥50'34 15°¥11'38 14°¥59'16 10°¥25'47 10°¥16'41 10°¥09'32	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 16 19:13 14647 Mar 19 21:14	27°♂10'48 0°≈ 31'28 12°≈37'07 29°≈52'03 0° ¥ 0° Y 3° Y05'07 10° Y30'02 8° Y12'53 5° Y12'52 2° Y23'18 2° Y16'58 30° R ¥ 28° ¥56'52 27° ¥17'50	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 11 10:24	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0° ¥ 15° ¥14'48 22° ¥30'53 20° ¥32'58 17° ¥50'34 15° ¥11'38 14° ¥59'16 10° ¥25'47 10° ¥16'41 10° ¥09'32 13° ¥50'47	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 20 03:14	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0° ₩ 0° Ψ 3° Ψ05'07 10° Ψ'30'02 8° Ψ12'53 5° Ψ12'52 2° Ψ'23'18 2° Ψ'16'58 30° ℝ ₩ 28° ₩ 56'52 27° ₩ 17'50 26° ₩ 54'51	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 11 10:24 14648 Mar 22 10:00	11°♂46'13 12°♂37'49 26°♂52'26 0°≈ 19°≈20'30 0° ₭ 15° ₭14'48 22° ₭30'53 20° ₭32'58 17° ₭50'34 15° ₭11'38 14° ₭59'16 10° ₭25'47 10° ₭16'41 10° ₭09'32 13° ₭50'47 0° ♥	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 22 03:14	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 11 10:24 14648 Mar 22 10:00 14648 Mar 27 00:07	11°♂46'13 12°♂37'49 26°♂52'26 0°≈ 19°≈20'30 0° ₭ 15° ₭14'48 22° ₭30'53 20° ₭32'58 17° ₭50'34 15° ₭11'38 14° ₭59'16 10° ₭25'47 10° ₭16'41 10° ₭09'32 13° ₭50'47 0° ℉	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 11 10:24 14648 Mar 22 10:00	11°♂46'13 12°♂37'49 26°♂52'26 0°≈ 19°≈20'30 0° ₭ 15° ₭14'48 22° ₭30'53 20° ₭32'58 17° ₭50'34 15° ₭11'38 14° ₭59'16 10° ₭25'47 10° ₭16'41 10° ₭09'32 13° ₭50'47 0° ♥	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Mar 28 19:47	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 11 10:24 14648 Mar 27 00:07 14648 Mar 27 00:07 14648 Apr 04 10:19	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ≈ 19° ≈20'30 0° ¥ 15° ¥14'48 22° ¥30'53 20° ¥32'58 17° ¥50'34 15° ¥11'38 14° ¥59'16 10° ¥25'47 10° ¥16'41 10° ¥09'32 13° ¥50'47 0° ♀ 8° ♀23'18 23° ♀48'32	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 16 16:44	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°8	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 20 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 16 05:07 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 27 00:07 14648 Mar 27 00:07 14648 Apr 06 02:14	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0° ¥ 15° ¥ 14'48 22° ¥ 30'53 20° ¥ 32'58 17° ¥ 50'34 15° ¥ 11'38 14° ¥ 59'16 10° ¥ 25'47 10° ¥ 16'41 10° ¥ 09'32 13° ¥ 50'47 0° ♥ 8° ♥ 23'18 23° ♥ 48'32	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Mar 28 19:47	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 02:14	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0° 米 15° ¥14'48 22° ¥30'53 20° ¥32'58 17° ¥50'34 15° ¥11'38 14° ¥59'16 10° ¥25'47 10° ¥16'41 10° ¥09'32 13° ¥50'47 0° Ŷ 8° Ŷ23'18 23° Ŷ48'32	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'53 5°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°♥ 3°∀16'48	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 01:06	11°る46'13 12°る37'49 26°る52'26 0°≈ 19°≈20'30 0° ₭ 15° ₭14'48 22° ₭30'53 20° ₭32'58 17° ₭50'34 15° ₭11'38 14° ₭59'16 10° ₭25'47 10° ₭16'41 10° ₭09'32 13° ₭50'47 0° ♥ 8° ♀23'18 23° ♀48'32 26° ♀46'00 26° ♀40'57 26° ♀22'36	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°℧ 3°℧16'48	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 01:06 14648 Apr 06 05:15	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ₹ 19° ₹20'30 0° ₹ 15° ₹14'48 22° ₹30'53 20° ₹32'58 17° ₹50'34 15° ₹11'38 14° ₹59'16 10° ₹25'47 10° ₹16'41 10° ₹09'32 13° ₹50'47 0° ₹ 8° ₹23'18 23° ₹48'32 26° ₹46'00 26° ₹46'00 26° ₹22'36 26° ₹59'17	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 12:15 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°℧ 3°℧16'48 14°℧52'20 14°℧51'25	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 05:15 14648 Apr 06 05:15	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ≈ 19° ≈20'30 0° ₹ 15° ₹14'48 22° ₹30'53 20° ₹32'58 17° ₹50'34 15° ₹11'38 14° ₹59'16 10° ₹25'47 10° ₹16'41 10° ₹09'32 13° ₹50'47 0° ♀ 8° ♀23'18 23° ♀48'32 26° ♀46'00 26° ♀40'57 26° ♀22'36 26° ♀59'17 0° ₹	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°℧ 3°℧16'48	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 01:06 14648 Apr 06 05:15	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ₹ 19° ₹20'30 0° ₹ 15° ₹14'48 22° ₹30'53 20° ₹32'58 17° ₹50'34 15° ₹11'38 14° ₹59'16 10° ₹25'47 10° ₹16'41 10° ₹09'32 13° ₹50'47 0° ₹ 8° ₹23'18 23° ₹48'32 26° ₹46'00 26° ₹46'00 26° ₹22'36 26° ₹59'17	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 12:15 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°℧ 3°℧16'48 14°℧52'20 14°℧51'25	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 05:15 14648 Apr 06 05:15	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ≈ 19° ≈20'30 0° ₹ 15° ₹14'48 22° ₹30'53 20° ₹32'58 17° ₹50'34 15° ₹11'38 14° ₹59'16 10° ₹25'47 10° ₹16'41 10° ₹09'32 13° ₹50'47 0° ♀ 8° ♀23'18 23° ♀48'32 26° ♀46'00 26° ♀40'57 26° ♀22'36 26° ♀59'17 0° ₹	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 18 13:46 14647 Apr 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°8 3°816'48 14°852'20 14°831'25 26°803'40	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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.	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 02:14 14648 Apr 06 02:14 14648 Apr 06 05:15 14648 Apr 06 05:15 14648 Apr 07 22:28 14648 Apr 13 16:11	11° ₹46′13 12° ₹37′49 26° ₹52′26 0° ≈ 19° ≈20′30 0° ₹ 15° ₹14′48 22° ₹30′53 20° ₹32′58 17° ₹50′34 15° ₹11′38 14° ₹59′16 10° ₹25′47 10° ₹16′41 10° ₹09′32 13° ₹50′47 0° ₹ 8° ₹23′18 23° ₹48′32 26° ₹46′00 26° ₹40′57 26° ₹22′36 26° ₹59′17 0° ₹ 9° ₹46′14	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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.	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 17 18 13:46	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°S 3°816'48 14°♂52'20 14°♂31'25 26°♂3'40 0°Ⅱ	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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.	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 02:14 14648 Apr 06 05:15 14648 Apr 06 05:15 14648 Apr 07 22:28 14648 Apr 13 16:11 14648 Apr 19 01:55	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ≈ 19° ≈20'30 0° ₹ 15° ₹14'48 22° ₹30'53 20° ₹32'58 17° ₹50'34 15° ₹11'38 14° ₹59'16 10° ₹25'47 10° ₹16'41 10° ₹09'32 13° ₹50'47 0° ₹ 8° ₹23'18 23° ₹48'32 26° ₹46'00 26° ₹40'57 26° ₹22'36 26° ₹59'17 0° ₹ 9° ₹46'14 18° ₹35'05	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27
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.	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 12 21:48 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46 14647 Apr 25 08:28 14647 Apr 25 03:28 14647 May 04 15:05 14647 May 09 22:10	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°8 3°816'48 14°♂52'20 14°♂31'25 26°∀03'40 0°Ⅲ 8°Ⅲ17'57	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08 -0°52'06 0°52'00 1.44002 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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.	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 00:03 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 21 10:24 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 05:15 14648 Apr 07 22:28 14648 Apr 19 01:55 14648 Apr 19 01:55 14648 Apr 19 01:55	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ≈ 19° ≈20'30 0° ¥ 15° ¥14'48 22° ¥30'53 20° ¥32'58 17° ¥50'34 15° ¥11'38 14° ¥59'16 10° ¥25'47 10° ¥16'41 10° ¥09'32 13° ¥50'47 0° Ŷ 8° Ŷ23'18 23° Ŷ48'32 26° Ŷ46'00 26° Ŷ40'57 26° Ŷ22'36 26° Ŷ59'17 0° ℧ 9° ℧46'14 18° ℧35'05 0° Ⅱ	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27 -0°13'25 0°13'37
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	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46 14647 Apr 25 08:28 14647 Apr 25 03:28 14647 May 02 03:58 14647 May 04 15:05 14647 May 09 22:10 14647 May 24 10:14	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°Y 3°∀16'48 14°♥31'25 26°♥03'40 0°II 8°II17'57 0°©	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08 -0°52'06 0°52'00 1.44002 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14647 Dec 28 04:24 14648 Jan 07 08:17 14648 Jan 26 11:49 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 16:42 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 21 10:00 14648 Mar 27 00:07 14648 Apr 04 10:19 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 05:15 14648 Apr 07 22:28 14648 Apr 13 16:11 14648 Apr 19 01:55 14648 Apr 26 09:43 14648 Mar 26 09:43 14648 Mar 19 00:48	11° \(\frac{3}{46} \) 13 12° \(\frac{3}{3} \) 37'49 26° \(\frac{5}{5} \) 52'26 0° \(\times \) 19° \(\times \) 20'30 0° \(\times \) 15° \(\times \) 14'48 22° \(\times \) 30'53 20° \(\times \) 32'58 17° \(\times \) 50'34 15° \(\times \) 11'38 14° \(\times \) 59'16 10° \(\times \) 25'47 10° \(\times \) 16'41 10° \(\times \) 09'32 13° \(\times \) 48'32 26° \(\times \) 48'32 26° \(\times \) 46'00 26° \(\times \) 46'00 26° \(\times \) 46'14 18° \(\times \) 35'05 0° \(\times \) 0° \(\times \)	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27 -0°13'25 0°13'37
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 evening max el	14647 Jan 04 09:25 14647 Jan 05 16:05 14647 Jan 05 21:48 14647 Jan 11 13:19 14647 Jan 20 11:32 14647 Jan 20 13:19 14647 Feb 10 06:02 14647 Feb 13 06:29 14647 Feb 27 04:19 14647 Mar 06 01:17 14647 Mar 09 19:23 14647 Mar 12 19:08 14647 Mar 15 10:37 14647 Mar 16 19:13 14647 Mar 19 21:14 14647 Mar 22 03:14 14647 Mar 28 12:15 14647 Mar 28 19:47 14647 Apr 13 17:18 14647 Apr 13 17:18 14647 Apr 16 16:44 14647 Apr 18 13:46 14647 Apr 25 08:28 14647 May 04 15:05 14647 May 09 22:10 14647 May 24 10:14 14647 May 24 10:14	27°♂10'48 0°≈ 0°≈31'28 12°≈37'07 29°≈52'03 0°¥ 0°Y 3°Y05'07 10°Y30'02 8°Y12'52 2°Y23'18 2°Y16'58 30°R¥ 28°¥56'52 27°¥17'50 26°¥54'51 0°Y 0°Y18'01 24°Y45'37 0°∀ 3°∀16'48 14°∀52'20 14°∀31'25 26°∀03'40 0°Ⅱ 8°Ⅲ17'57 0°© 20°©45'46	1°38'36 1.31807 AU 27°33'39 0.62271 AU -1°17'48 1°16'38 17°47'08 -0°52'06 0°52'00 1.44002 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set 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	14647 Dec 19 19:38 14647 Dec 20 04:52 14647 Dec 26 16:43 14648 Jan 07 08:17 14648 Jan 14 00:37 14648 Feb 09 11:51 14648 Feb 20 02:13 14648 Feb 23 06:58 14648 Feb 23 12:54 14648 Mar 02 16:42 14648 Mar 02 16:42 14648 Mar 04 01:02 14648 Mar 11 10:24 14648 Mar 22 10:00 14648 Mar 27 00:07 14648 Apr 06 02:14 14648 Apr 06 01:06 14648 Apr 06 01:06 14648 Apr 06 05:15 14648 Apr 07 22:28 14648 Apr 19 01:55 14648 Apr 19 01:55 14648 Apr 26 09:43 14648 May 18 00:48 14648 May 18 00:48 14648 May 18 00:48	11° ₹46'13 12° ₹37'49 26° ₹52'26 0° ₹ 19° ₹20'30 0° ₭ 15° ₹14'48 22° ₹30'53 20° ₹32'58 17° ₹50'34 15° ₹11'38 14° ₹59'16 10° ₹25'47 10° ₹09'32 13° ₹50'47 0° ♀ 8° ♀23'18 23° ♀48'32 26° ♀46'00 26° ♀40'57 26° ♀22'36 26° ♀59'17 0° ₺ 9° ₺46'14 18° ₺35'05 0° Ⅱ 0° \$ 4° \$37'28	1°37'40 1.31205 AU 27°07'31 0.60060 AU -2°41'20 2°38'41 18°02'27 -0°13'25 0°13'37

evening set	14648 Jun 05 23:04	8°9523'13			14649 Apr 19 19:37	0°Щ	
inferior conj	14648 Jun 11 06:00	2°901'31	2°59'31	evening max el	14649 May 04 20:28	18° Ⅱ 31'18	22052141
minimum elong	14648 Jun 11 04:44	2°905'58	2°58'20	retrograde	14649 May 15 21:00	24° I 59'25	23 32 41
min. Earth dist.	14648 Jun 11 01:21	2°917'45	0.69029 AU	asc. node	14649 May 16 10:46	24° I 57'59	
iiiii. Lattii dist.	14648 Jun 12 17:20	30°RII	0.07027 AO	evening set	14649 May 21 05:03	22° I I43'55	
morning rise	14648 Jun 16 10:14	25° Ⅱ 49'45		min. Earth dist.	14649 May 25 21:50	17° I I15'20	0.68794 AU
direct	14648 Jun 21 00:50	23° I I54'32		inferior conj	14649 May 26 15:16	16° I I15'52	2°39'07
morning max el	14648 Jun 30 01:34		21°39'29	minimum elong	14649 May 26 13:22	16° Ⅲ 22'22	2°37'45
morning max or	14648 Jun 30 21:05	0°95	21 37 27	morning rise	14649 May 31 21:41	10° Ⅱ 12'14	2 37 13
desc. node	14648 Jul 01 10:52	0°936'39		direct	14649 Jun 05 00:01	8° Д 37'12	
dese. Hode	14648 Jul 23 01:31	0°Ω		morning max el	14649 Jun 12 21:37	13° I I05'04	20°22'09
morning set	14648 Aug 01 02:12	13° Ω 57'20		desc. node	14649 Jun 18 07:59	19° Ⅱ 19'30	20 22 09
max. Earth dist.	14648 Aug 07 07:22	24°Ω00'01	1.42166 AU	desc. node	14649 Jun 26 03:03	0.00	
man. Barur dige.	14648 Aug 10 21:41	0° m)	12100110	morning set	14649 Jul 11 10:27	22° 9 55'07	
	110101148 10 21.11	v x		morning sec	14649 Jul 15 23:42	0°Ω	
superior conj	14648 Aug 14 21:42	6° Mp 50'51	-1°25'23	max. Earth dist.	14649 Jul 20 17:09	7° Ω 29'16	1.44041 AU
minimum elong	14648 Aug 15 04:18	7° m) 19'32				, 00=, -0	
evening rise	14648 Aug 25 21:38	26° m) 33'18		superior conj	14649 Jul 26 20:51	17° Ω 28'42	-1°55'05
asc. node	14648 Aug 25 14:13	25° m 59'25		minimum elong	14649 Jul 27 04:11	17° Ω 58'54	
	14648 Aug 27 18:55	0∘ ⊽			14649 Aug 03 07:51	0° m)	
evening max el	14648 Sep 10 23:13	21° £ 59'45	18°08'24	evening rise	14649 Aug 08 13:16	9° m) 00'54	
retrograde	14648 Sep 17 23:34	25° £ 34'44		asc. node	14649 Aug 12 10:47	15° m) 46'08	
evening set	14648 Sep 20 05:03	25° £ 13'29			14649 Aug 21 06:23	0∘ ⊽	
inferior conj	14648 Sep 27 08:57	20° £ 23'52	-0°01'12	evening max el	14649 Aug 25 13:02	5° Ω 12'14	18°02'26
minimum elong	14648 Sep 27 08:55	20° £ 23'56	0°00'55	retrograde	14649 Sep 01 00:33	8° ₾ 33'54	
transit middle	14648 Sep 27 08:55	20° £ 23'56	0°00'55	evening set	14649 Sep 03 14:10	8° ഫ 01'26	
transit begin	14648 Sep 27 05:33	20° £ 31'27		inferior conj	14649 Sep 10 02:01	2° ჲ 52'26	1°13'27
transit end	14648 Sep 27 12:18	20° £ 16'24		minimum elong	14649 Sep 10 03:58	2° ₽ 47'28	1°12'43
desc. node	14648 Sep 27 07:26	20° £ 27'16			14649 Sep 12 21:48	30°R, M)	
min. Earth dist.	14648 Sep 30 15:07	17° £ 30'32	0.59692 AU	min. Earth dist.	14649 Sep 13 00:36	29° m 53'11	0.61985 AU
morning rise	14648 Oct 04 09:28	14° £ 43'35		desc. node	14649 Sep 14 04:56	28° m/46'18	
direct	14648 Oct 10 22:02	12° £ 43'56		morning rise	14649 Sep 16 15:16	26° m/48'09	
morning max el	14648 Oct 25 05:00	20° £ 31'56	27°45'23	direct	14649 Sep 23 07:34	24° m) 27'05	
	14648 Nov 02 09:22	0° M .			14649 Oct 04 20:24	0∘ ⊽	
	14648 Nov 20 19:25	0° ∡ 7		morning max el	14649 Oct 07 10:42	ა — 2° ჲ 25'11	27°58'23
asc. node	14648 Nov 21 15:59	1° × 740'21			14649 Oct 27 19:23	0°M	_, _, _,
morning set	14648 Nov 26 06:44	11° ×7 05'01		asc. node	14649 Nov 08 12:46	21°M28'30	
max. Earth dist.	14648 Dec 02 12:42	24° × 742'27	1.31135 AU	morning set	14649 Nov 10 06:53	25°ML02'16	
man. Barur dige.	110101010000112.12	,,	1.51150116	morning sec	14649 Nov 12 15:56	0° ⊼ ⊓	
superior conj	14648 Dec 03 07:44	26° ∡ ¹28'36	1°29'47	max. Earth dist.	14649 Nov 15 17:34	6° х ⁷ 36′02	1.31612 AU
minimum elong	14648 Dec 03 06:08	26° ₹ 19'41	1°30'40				
8	14648 Dec 04 21:33	0°ಕ		superior conj	14649 Nov 17 17:22	10° х 58′23	1°17'01
evening rise	14648 Dec 10 00:33	11° る 17'48		minimum elong	14649 Nov 17 15:11	10° ₹ 46'22	1°17'40
e vennig rise	14648 Dec 19 09:32	0° ≈		evening rise	14649 Nov 24 10:53	25° × 747'41	1 17 10
desc. node	14648 Dec 24 05:07	8° ≈ 14'19		evening rise	14649 Nov 26 10:09	0°궁	
evening max el	14649 Jan 07 09:46	26° ≈ 33'24	26°06'54	desc. node	14649 Dec 11 02:05	26° ප 19'51	
evening mun er	14649 Jan 11 13:18	0° ∀	20 000.	desc. node	14649 Dec 13 18:17	0°≈	
retrograde	14649 Jan 21 08:41	3°) €37'43		evening max el	14649 Dec 19 23:26	7° ≈ 01'47	24°37'57
evening set	14649 Jan 27 14:13	2°) €05'47		•	1.0.7 200 17 25.20		2.5/6/
e venning see				retrograde	14650 Jan 02 16:36	13° ≈≈ 52'22	
i. E. d. di.				retrograde	14650 Jan 02 16:36 14650 Jan 08 00:45	13°≈52'22 12°≈49'33	
min Earin disi	14649 Jan 31 04:37	30° ₹ ≈	0 57905 AU	evening set	14650 Jan 08 00:45	12° ≈ 49'33	0 56070 AU
min. Earth dist.	14649 Jan 31 04:37 14649 Jan 31 23:04	30°R≈ 29°≈28'33	0.57905 AU -4°07'47	evening set min. Earth dist.	14650 Jan 08 00:45 14650 Jan 13 11:15	12°≈49'33 10°≈01'10	
inferior conj	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10	30°R≈ 29°≈28'33 27°≈17'19	-4°07'47	evening set min. Earth dist. inferior conj	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23	12°≈49'33 10°≈01'10 8°≈31'44	-5°21'41
inferior conj minimum elong	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36		evening set min. Earth dist. inferior conj minimum elong	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00	-5°21'41
inferior conj minimum elong morning rise	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49	-4°07'47	evening set min. Earth dist. inferior conj minimum elong morning rise	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14	-5°21'41
inferior conj minimum elong morning rise direct	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35 14649 Feb 14 06:57	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34	-4°07'47	evening set min. Earth dist. inferior conj minimum elong morning rise direct	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47	-5°21'41
inferior conj minimum elong morning rise direct asc. node	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06	-4°07'47 4°04'25	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25	-5°21'41 5°19'16
inferior conj minimum elong morning rise direct	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 22 18:07	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12	-4°07'47	evening set min. Earth dist. inferior conj minimum elong morning rise direct	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39	-5°21'41
inferior conj minimum elong morning rise direct asc. node morning max el	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0°)€	-4°07'47 4°04'25	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0° ★	-5°21'41 5°19'16
inferior conj minimum elong morning rise direct asc. node	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51 14649 Mar 10 19:08	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0° € 22° € 33'29	-4°07'47 4°04'25	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39	-5°21'41 5°19'16
inferior conj minimum elong morning rise direct asc. node morning max el	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0°)€	-4°07'47 4°04'25	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Feb 22 22:15	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0° ₩ 7° ₩03'15	-5°21'41 5°19'16 19°35'52
inferior conj minimum elong morning rise direct asc. node morning max el morning set	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 25 13:51 14649 Mar 10 19:08 14649 Mar 14 15:22	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0°ℋ 22°ℋ33'29 0°Ƴ	-4°07'47 4°04'25 18°38'01	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Feb 22 22:15	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0° ₩ 7° ₩03'15 23° ₩05'27	-5°21'41 5°19'16 19°35'52 0°49'51
inferior conj minimum elong morning rise direct asc. node morning max el morning set	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51 14649 Mar 10 19:08 14649 Mar 14 15:22	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0° ★ 22° ★33'29 0° Υ 9° Υ34'53	-4°07'47 4°04'25 18°38'01 0°21'16	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Feb 22 22:15	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0° ₩ 7° ₩03'15 23° ₩05'27 23° ₩17'52	-5°21'41 5°19'16 19°35'52
inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 12 06:35 14649 Feb 14 06:57 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Mar 10 19:08 14649 Mar 14 15:22	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0°₩ 22°₩33'29 0°Ψ	-4°07'47 4°04'25 18°38'01	evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Feb 22 22:15 14650 Mar 02 22:11 14650 Mar 03 00:42 14650 Mar 06 12:01	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0° ₩ 7° ₩03'15 23° ₩05'27 23° ₩17'52 0° Ψ	-5°21'41 5°19'16 19°35'52 0°49'51
inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51 14649 Mar 10 19:08 14649 Mar 14 15:22 14649 Mar 19 16:21 14649 Mar 19 17:45 14649 Mar 22 06:50	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0° ₩ 22° ₩ 33'29 0° Ψ 9°Ψ'34'53 9°Ψ'41'28 14°Ψ'23'05	-4°07'47 4°04'25 18°38'01 0°21'16 0°20'57	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	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Mar 02 22:11 14650 Mar 02 22:11 14650 Mar 03 00:42 14650 Mar 06 12:01 14650 Mar 09 03:20	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0°¥ 7°¥03'15 23°¥05'27 23°¥17'52 0°Υ 4°Υ56'09	-5°21'41 5°19'16 19°35'52 0°49'51 0°49'41
inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51 14649 Mar 10 19:08 14649 Mar 14 15:22 14649 Mar 19 16:21 14649 Mar 19 17:45 14649 Mar 22 06:50 14649 Mar 27 00:20	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0° ₩ 22° ₩33'29 0° Υ 9° Υ³34'53 9° Υ⁴41'28 14° Υ²23'05 22° Υ⁴8'53	-4°07'47 4°04'25 18°38'01 0°21'16	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.	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Mar 02 22:11 14650 Mar 02 22:11 14650 Mar 03 00:42 14650 Mar 04 03:20 14650 Mar 09 03:20 14650 Mar 09 06:48	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0°ℋ 7°ℋ03'15 23°ℋ05'27 23°ℋ17'52 0°Ψ 4°Ŷ56'09 5°Ŷ12'05	-5°21'41 5°19'16 19°35'52 0°49'51
inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	14649 Jan 31 04:37 14649 Jan 31 23:04 14649 Feb 04 00:10 14649 Feb 04 08:54 14649 Feb 12 06:35 14649 Feb 17 14:09 14649 Feb 22 18:07 14649 Feb 25 13:51 14649 Mar 10 19:08 14649 Mar 14 15:22 14649 Mar 19 16:21 14649 Mar 19 17:45 14649 Mar 22 06:50	30°R≈ 29°≈28'33 27°≈17'19 27°≈01'36 22°≈52'49 22°≈39'34 23°≈17'06 26°≈49'12 0° ₩ 22° ₩ 33'29 0° Ψ 9°Ψ'34'53 9°Ψ'41'28 14°Ψ'23'05	-4°07'47 4°04'25 18°38'01 0°21'16 0°20'57	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	14650 Jan 08 00:45 14650 Jan 13 11:15 14650 Jan 15 20:23 14650 Jan 16 04:30 14650 Jan 24 10:21 14650 Jan 26 17:43 14650 Feb 04 11:34 14650 Feb 05 14:45 14650 Feb 19 08:45 14650 Mar 02 22:11 14650 Mar 02 22:11 14650 Mar 03 00:42 14650 Mar 06 12:01 14650 Mar 09 03:20	12°≈49'33 10°≈01'10 8°≈31'44 8°≈19'00 4°≈28'14 4°≈13'47 7°≈58'25 9°≈00'39 0°¥ 7°¥03'15 23°¥05'27 23°¥17'52 0°Υ 4°Υ56'09	-5°21'41 5°19'16 19°35'52 0°49'51 0°49'41

	14650 Apr 15 01:52	0° I I			14651 Mar 17 11:10	0°B	
ovening may al	14650 Apr 17 10:00	0 П 2°П25'09	25°10'48	avaning may al	14651 Mar 30 23:34	16° 8 14'25	26°18'32
evening max el	14650 Apr 29 11:18	2 H 23 09 9° H 24'59	23 1048	evening max el		23° 8 34'57	20 18 32
retrograde asc. node	14650 May 03 08:03	9 П 24 39 8° П 21'53		retrograde evening set	14651 Apr 12 20:41 14651 Apr 19 02:50	23 8 3437 21° 8 03'15	
	•	6° П 59'08		•	•	20° 8 04'10	
evening set	14650 May 05 06:53		0.60005 ATT	asc. node	14651 Apr 20 05:26		0.66929 AU
min. Earth dist.	14650 May 09 15:54	2° Ⅱ 07'07	0.68085 AU	min. Earth dist.	14651 Apr 23 05:31	16° 8 46'32	
inferior conj	14650 May 10 22:06	0° Ⅱ 28'28	2°08'14	inferior conj	14651 Apr 25 00:28	14° 8 34'59	1°26'13
minimum elong	14650 May 10 19:56	0° П 35'33	2°06'47	minimum elong	14651 Apr 24 22:35	14° 8 40'46 8° 8 51'39	1°24'55
	14650 May 11 06:50	30° ₹8		morning rise	14651 Apr 30 19:15		
morning rise	14650 May 16 09:21	24° 8 34'19		direct	14651 May 03 23:09	7° 8 55'14	10021105
direct	14650 May 20 00:02	23° 8 19'24	10010120	morning max el	14651 May 10 11:39	11° 8 23'22	18°31'05
morning max el	14650 May 27 01:09	27° 8 10'48	19°18'39	desc. node	14651 May 23 01:52	28° 8 25'46	
	14650 May 29 15:43	0°II			14651 May 24 02:13	0°П	
desc. node	14650 Jun 05 04:58	8° Ⅱ 39'11		morning set	14651 May 31 08:50	11° Ⅱ 24'19	
greatest brilliancy	14650 Jun 08 18:27	13° Ⅱ 50′08	-0.7m		14651 Jun 12 05:34	0 . \odot	
	14650 Jun 19 10:22	0°©					
morning set	14650 Jun 20 13:48	1° © 45'28		superior conj	14651 Jun 16 06:58	6° © 19'55	
max. Earth dist.	14650 Jul 03 09:09	21° © 38'53	1.45320 AU	minimum elong	14651 Jun 16 02:25	6° © 02'09	2°11'09
				max. Earth dist.	14651 Jun 16 04:27	6° © 10′08	1.45889 AU
superior conj	14650 Jul 06 21:10	27° © 10'25			14651 Jul 01 09:07	0 ° Ω	
minimum elong	14650 Jul 07 00:21	27° 5 23'02	2°13'00	evening rise	14651 Jul 02 00:56	1° Ω 02'28	
	14650 Jul 08 15:50	$0 ^{\circ} \Omega$		greatest brilliancy	14651 Jul 10 11:03	14° Ω 18'50	-0.8m
evening rise	14650 Jul 21 07:29	20° Ω 32'56		asc. node	14651 Jul 17 04:09	24° Ω 25′08	
	14650 Jul 27 01:04	0° m			14651 Jul 21 09:38	0° m)	
asc. node	14650 Jul 30 07:25	5° Mp 16'55		evening max el	14651 Jul 23 15:41	2° m 28'09	18°44'51
evening max el	14650 Aug 09 03:32	18° m 44'25	18°14'50	retrograde	14651 Jul 30 06:26	6°My04'12	
retrograde	14650 Aug 15 12:11	22° Mp 06'41		evening set	14651 Aug 02 13:36	5° m 01'51	
evening set	14650 Aug 18 10:21	21° m 20'15			14651 Aug 07 15:25	30° R Ω	
inferior conj	14650 Aug 24 09:38	15° m 54'20	2°07'16	inferior conj	14651 Aug 08 03:57	29° Ω 21′09	2°42'52
minimum elong	14650 Aug 24 12:03	15° m 47'24	2°06'14	minimum elong	14651 Aug 08 05:56	29° Ω 14'55	2°41'51
min. Earth dist.	14650 Aug 26 19:56	13° m) 08'24	0.64138 AU	min. Earth dist.	14651 Aug 10 00:14	27° Ω 03′27	0.65991 AU
morning rise	14650 Aug 30 12:08	9° m 35'38		morning rise	14651 Aug 13 21:20	22° Ω 56′14	
desc. node	14650 Sep 01 02:27	8° m 29'09		desc. node	14651 Aug 18 23:59	20° Ω 22'41	
direct	14650 Sep 06 02:16	7° m 01'08		direct	14651 Aug 20 04:53	20° Ω 17'16	
morning max el	14650 Sep 19 20:41	15° m 00'07	27°34'30	morning max el	14651 Sep 02 08:08	28° Ω 04'09	26°40'17
	14650 Oct 02 03:01	0∘ ⊽			14651 Sep 04 04:19	0° m)	
	14650 Oct 20 11:47	0°M			14651 Sep 25 20:48	0∘ ऌ	
morning set	14650 Oct 24 22:51	8°M34'49		morning set	14651 Oct 08 03:33	21° ♀ 34'45	
asc. node	14650 Oct 26 09:28	11°ML28'02		max. Earth dist.	14651 Oct 12 04:18	29° ≙ 24'41	1.34194 AU
max. Earth dist.	14650 Oct 29 15:47	18° M .11'18	1.32636 AU		14651 Oct 12 11:23	0° M .	
				asc. node	14651 Oct 13 06:06	1° M .33'49	
superior conj	14650 Nov 01 23:16	25°M14'22	0°58'24				
minimum elong	14650 Nov 01 20:59	25°ML02'04	0°58'48	superior conj	14651 Oct 16 23:04	9° ™ 09'49	0°34'01
	14650 Nov 04 03:59	0° ∡ ¹		minimum elong	14651 Oct 16 21:22	9° M 00'54	0°34'15
evening rise	14650 Nov 08 21:54	10° ∡ 17'40		evening rise	14651 Oct 24 07:38	24° M 41'59	
	14650 Nov 18 21:51	ರ°0			14651 Oct 26 20:52	0° ∡ ¹	
desc. node	14650 Nov 27 23:09	13° る 19'43		evening max el	14651 Nov 13 00:06	27° ∡ ¹09'17	21°17'38
evening max el	14650 Dec 01 09:02	17° る 01'20	22°55'31	desc. node	14651 Nov 14 20:22	28° ∡ ¹50′21	
retrograde	14650 Dec 14 11:52	23° る 31'49			14651 Nov 16 08:08	0°ප	
evening set	14650 Dec 18 13:15	22° る 55'58		retrograde	14651 Nov 24 22:58	3° る 04'57	
min. Earth dist.	14650 Dec 25 18:09	19° る 36'59	0.54840 AU	evening set	14651 Nov 27 17:14	2° る 47'15	
inferior conj	14650 Dec 26 21:38	18° ප 57'48	-5°58'52	_	14651 Dec 04 14:19	30°₽ ⋌ ¹	
minimum elong	14650 Dec 26 23:05	18° ප 55'45	5°57'49	inferior conj	14651 Dec 06 13:02	28° ∡ ¹55′00	-5°38'12
morning rise	14651 Jan 04 10:19	15° පි 08'54		minimum elong	14651 Dec 06 05:41	29° ∡ 05′21	5°36'03
direct	14651 Jan 07 10:12	14° ⋜ 48′03		min. Earth dist.	14651 Dec 06 23:56	28° ₹ 39'38	0.54454 AU
morning max el	14651 Jan 18 21:10	20° ට 17'44	20°56'56	morning rise	14651 Dec 14 18:40	25° ∡ ¹04'59	
asc. node	14651 Jan 22 08:55	24° ට 07'11		direct	14651 Dec 18 17:37	24° ∡ ³31'11	
	14651 Jan 26 14:27	0° ≈			14651 Dec 30 18:59	0°ਰ	
morning set	14651 Feb 07 06:31	21° ≈ 44'07		morning max el	14651 Dec 31 13:53	0°る43'30	22°37'50
Z .	14651 Feb 11 05:26	0°) €		asc. node	14652 Jan 09 06:11	11° ට 25'06	
					14652 Jan 19 14:54	0° ≈	
superior conj	14651 Feb 14 15:39	7°) €06'44	1°11'41	morning set	14652 Jan 22 17:37	6° ≈ 29'07	
minimum elong	14651 Feb 14 18:14	7° ¥ 19'56	1°11'52	<i>5</i> ~			
max. Earth dist.	14651 Feb 19 15:42	17° ¥ 08'53	1.35596 AU	superior conj	14652 Jan 29 17:21	21° ≈ 28'50	1°26'49
evening rise	14651 Feb 23 14:25	24°) 40'28		minimum elong	14652 Jan 29 19:18	21° ≈ 39'12	1°27'21
desc. node	14651 Feb 23 23:51	25°) 24'17		max. Earth dist.	14652 Feb 02 06:58	28°≈58'28	1.33771 AU
	14651 Feb 26 12:25	0°Υ		dist.	14652 Feb 02 18:56	0° ∺	,,
	14031 Feb Zn 17. / 1						

evening rise	14652 Feb 06 19:25	8° ₩ 03'17		minimum elong	14653 Jan 13 01:29	6° ≈ 08'53	1°36'19
desc. node	14652 Feb 10 20:26	15° ¥ 43′21		max. Earth dist.	14653 Jan 15 06:03	10° ≈ 54'50	1.32385 AU
	14652 Feb 19 02:04	0° Y		evening rise	14653 Jan 20 11:17	21° ≈ 52'15	
evening max el	14652 Mar 12 13:08	29° Y ′51′38	27°08'29		14653 Jan 24 14:15	0° ∀	
	14652 Mar 12 16:37	9° 8		desc. node	14653 Jan 27 17:03	5°) 48′08	
retrograde	14652 Mar 26 00:21	7° 8 21'13			14653 Feb 11 22:15	0° Y	
evening set	14652 Apr 01 14:58	4° 8 49'41		evening max el	14653 Feb 23 01:32	13° Y ′05′25	27°33'22
min. Earth dist.	14652 Apr 05 12:44	1° 8 05'54	0.65366 AU	retrograde	14653 Mar 08 21:02	20° Ƴ 33'43	
asc. node	14652 Apr 06 02:52	0° 8 26'44		evening set	14653 Mar 15 16:51	18° Ƴ 09'29	
	14652 Apr 06 12:23	30° ₹Ƴ		min. Earth dist.	14653 Mar 19 11:36	14° Y ′54'52	0.63469 AU
inferior conj	14652 Apr 07 20:03	28° Ƴ 30'12	0°32'18	inferior conj	14653 Mar 22 06:00	12° Y ′06′35	-0°34'07
minimum elong	14652 Apr 07 19:11	28° Y 32'39	0°31'34	minimum elong	14653 Mar 22 07:05	12° Y 03'48	0°33'46
morning rise	14652 Apr 14 01:05	22° Y ′59'28		asc. node	14653 Mar 24 00:21	10° Ƴ 21'41	
direct	14652 Apr 16 19:17	22° Y 18'45		morning rise	14653 Mar 28 23:47	6° Ƴ 50'47	
morning max el	14652 Apr 23 03:07	25° Ƴ 36′12	18°00'18	direct	14653 Mar 31 09:43	6° Y 22′20	
	14652 Apr 26 22:06	0° 8		morning max el	14653 Apr 06 20:45	9° Ƴ 40'29	17°46'47
desc. node	14652 May 08 22:38	18° 8 31'58			14653 Apr 20 15:07	0° ႘	
morning set	14652 May 11 07:03	22° 8 22'42		morning set	14653 Apr 23 07:46	4° 8 36'44	
•	14652 May 15 23:16	Π°		desc. node	14653 Apr 25 19:18	8° 8 51'27	
	•				•		
superior conj	14652 May 25 18:40	15° Ⅱ 41'19	-1°48'59	superior conj	14653 May 05 23:22	25° 8 51'59	-1°14'31
minimum elong	14652 May 25 09:48	15° Ⅱ 06′21	1°49'10	minimum elong	14653 May 05 16:07	25° 8 22'23	1°14'21
max. Earth dist.	14652 May 29 00:25	20° Ⅱ 46'44	1.45710 AU		14653 May 08 12:30	$\Pi^{\circ}0$	
	14652 Jun 03 22:32	0 \circ \odot		max. Earth dist.	14653 May 11 19:05	5° Ⅱ 14'24	1.44814 AU
evening rise	14652 Jun 10 20:47	10°5541'34		evening rise	14653 May 21 07:36	20° Ⅲ 05′05	
_	14652 Jun 23 13:46	$0^{\circ}\Omega$		_	14653 May 27 20:31	0°ಲಾ	
greatest brilliancy	14652 Jun 24 05:52	0° Ω 59'29	-0.7m		14653 Jun 18 21:31	$0^{\circ}\Omega$	
asc. node	14652 Jul 03 00:59	13° Ω 03′02		evening max el	14653 Jun 19 01:10	0° Ω 09'10	20°32'56
evening max el	14652 Jul 05 23:20	16° Ω 17'57	19°31'29	asc. node	14653 Jun 19 21:56	0° Ω 59'24	
retrograde	14652 Jul 13 04:15	20° Ω 20′03		retrograde	14653 Jun 27 03:11	4° Ω 47'42	
evening set	14652 Jul 16 21:00	19° Ω 00'40		evening set	14653 Jul 01 06:15	3° Ω 10'58	
inferior conj	14652 Jul 22 05:45	13° Ω 06'41	3°03'08	3	14653 Jul 04 07:44	30°Rூ	
minimum elong	14652 Jul 22 06:53	13°Ω02'54	3°02'12	inferior conj	14653 Jul 06 12:19	27° © 04'59	3°10'30
min. Earth dist.	14652 Jul 23 11:47	11° Ω 27'15	0.67445 AU	minimum elong	14653 Jul 06 12:29	27° 5 04'28	3°09'33
morning rise	14652 Jul 27 16:15	6°Ω41'33	0.071.0110	min. Earth dist.	14653 Jul 07 04:27	26°\$09'29	0.68442 AU
direct	14652 Aug 02 14:10	4°Ω06'53		morning rise	14653 Jul 11 18:24	20°5643'28	
desc. node	14652 Aug 04 21:26	4°Ω27'06		direct	14653 Jul 17 04:45	18°9520'31	
morning max el	14652 Aug 14 19:06		25°24'46	desc. node	14653 Jul 22 18:48	20°519'04	
morning max cr	14652 Aug 29 15:54	0° mp	23 21 10	morning max el	14653 Jul 28 05:32	24° © 56'20	23°57'47
	14652 Sep 17 12:50	0∘ <u>⊽</u>		morning man er	14653 Aug 01 19:12	0°Ω	25 07 17
morning set	14652 Sep 19 17:19	ა <u>~</u> ვ∘ <u>ჲ</u> 53'40			14653 Aug 23 02:51	0° my	
max. Earth dist.	14652 Sep 23 07:16	10° ≏ 28'44	1.36221 AU	morning set	14653 Sep 01 11:43	15° m/20'50	
asc. node	14652 Sep 29 02:43	21° Ω 42'15	1.30221710	max. Earth dist.	14653 Sep 05 05:35	21° m 51'34	1.38544 AU
ase. node	14032 Sep 27 02.43	21 -42 13		max. Lartii dist.	14653 Sep 09 17:37	0° ي	1.50544710
superior conj	14652 Sep 29 13:58	22° ≙ 38'17	0°04'21		11000 бер 00 17.57	~ —	
minimum elong	14652 Sep 29 13:41	22° ₽ 36'52	0°04'35	superior conj	14653 Sep 12 16:25	5° Ω 31'14	-0°29'34
behind sun begin	14652 Sep 29 07:35	22° ჲ 06′29		minimum elong	14653 Sep 12 18:30	5° Ω 41'08	
behind sun end	14652 Sep 29 19:47	23° ♀ 07'19		asc. node	14653 Sep 15 23:18	11° ≏ 49'42	
ovinna san vna	14652 Oct 03 05:25	0°M		evening rise	14653 Sep 21 14:28	22° ♀ 52'37	
evening rise	14652 Oct 07 14:02	8°M55'47			14653 Sep 25 06:24	0°M	
evening noe	14652 Oct 18 22:45	0° ∡ 7		evening max el	14653 Oct 07 22:45	19°M35'25	18°57'47
evening max el	14652 Oct 25 04:22	7° ∡ 757'25	19°56'50	retrograde	14653 Oct 16 16:42	23°M59'21	10 37 17
desc. node	14652 Oct 31 17:40	12° ₹ 25'54	17 2020	evening set	14653 Oct 18 13:45	23°M48'01	
retrograde	14652 Nov 04 12:27	13°×706'28		desc. node	14653 Oct 18 15:01	23°M47'22	
evening set	14652 Nov 06 12:53	12° × 55'36		inferior conj	14653 Oct 26 21:37	19°M31'08	-2°37'22
inferior conj	14652 Nov 15 08:56	8° × 756'19	-4°21'55	minimum elong	14653 Oct 26 15:02	19°M42'39	
minimum elong	14652 Nov 14 22:56	9° × 11'31		min. Earth dist.	14653 Oct 29 19:27	17°M29'26	0.56418 AU
min. Earth dist.	14652 Nov 17 07:33	7° ∡ 45′25	0.55016 AU	morning rise	14653 Nov 03 13:26	17 IIC2920 14°IIC46'07	0.50710 AU
morning rise	14652 Nov 17 07.33	4° × ⁷ 45'40	0.55010 AU	direct	14653 Nov 09 07:03	13°M28'36	
direct	14652 Nov 28 06:03	3° ₹ 52'25		morning max el	14653 Nov 23 10:33	20°M44'16	26°07'18
morning max el	14652 Dec 11 23:18	3 x · 32 23 10° x 40′27	24°27'18	morning max ci	14653 Dec 01 10:42	20 11C44 10	20 0/10
•	14652 Dec 26 03:22	10 x ·40 27 29° x 35'48	27 2/10	asc. node		0 x . 18° x 26'01	
asc. node		29° メ '35'48		asc. Houe	14653 Dec 13 00:26	18°×'26'01	
morning set	14652 Dec 26 09:02 14653 Jan 06 05:34	0°5 21° る 12'31		morning set	14653 Dec 18 22:22	0°る 5° る 49'45	
morning set	14653 Jan 06 05:34 14653 Jan 10 06:20	21° ⊙ 12′31		morning set	14653 Dec 21 16:38	5 049'43	
	17023 Jan 10 00.20	∪ ~~		superior conj	14653 Dec 28 10:51	20° る 44'28	1°37'58
superior conj	14653 Jan 13 00:30	6° ≈ 03'33	1°35'28	minimum elong	14653 Dec 28 10:31 14653 Dec 28 10:45	20° る 43'54	
superior conj	17000 Jan 10 00.30	0 ~03 33	1 33 40	mminum ciong	17033 DCC 20 10.43	20 043 34	1 1001

September 1465 Nov 2 1971	max. Earth dist.	14655 Nov 26 02:29	17° ₹ 09'21	1.31272 AU		14656 Nov 08 16:54	0° ₹	
Marcian community 465 Nov 2 0 0722	superior coni	14655 Nov 27 09:16	20° ₹ 00'11	1°25'05	superior coni	14656 Nov 10 17:36	4° ∡ 724'39	1°09'50
MeSS Dec. 11 165 Dec. 12 10 10 10 10 10 10 10	1 3				1 3			
1465 1465 1465 1466	Č	14655 Dec 01 21:10	0°る		-	14656 Nov 17 12:43	19° √ 17'58	
1455 10 17 17 17 17 17 17 17	evening rise	14655 Dec 04 01:54	4° ප 47'56		<i>3</i>		0°ප	
New No. 1465 Dec 1 0.649 New 2572 25718 1465 Dec 1 0.545 10 0 150 10 0	C	14655 Dec 17 04:32	0° ≈		desc. node	14656 Dec 05 04:26	21° පි 02'51	
Serving and 4666 lan 44 406 29-82-507 cereing set 4656 lan 20 40 52 53 53 53 53 53 53 53	desc. node	14655 Dec 19 07:24	3° ≈ 22'39		evening max el	14656 Dec 11 17:57	28° る 38'19	23°55'02
	evening max el	14655 Dec 31 06:49	18° ≈ 25'32	25°31'38		14656 Dec 13 05:45	0° ≈	
min Earth dist 1465 San 2 4 19.21 21 22 22.926 0.3701 AU min Earth dist 467 Jan 0 70.312 19-82/14 34.932 minimum clong 1465 Gan 2 8 00.39 1978-1447 473847 minimum clong 1465 Gan 2 8 00.39 76.913 35.9149 dicer 1465 Ge for 0 0 1020 135-80213 135-80213 minimum clong 1465 Tan 1 8 0.014 138-80213 678-1713 asc. node 1465 Ge for 1 6 0 05.11 19-82-032 187950 1465 Tan 1 8 0.099 26-81073	retrograde	14656 Jan 14 04:06	25° ≈ 25'07		retrograde	14656 Dec 25 06:55	5° ≈ 21'59	
Inferience In	evening set	14656 Jan 20 01:50	24° ≈ 05′08		evening set	14656 Dec 30 02:31	4° ≈ 31'32	
minimum clong 1465 Gh of 28 0030 97-81427 478-47 minimum clong 1465 Tan 7 0913 57-4172 57-4172 478-47 478-	min. Earth dist.	14656 Jan 24 19:21	21° ≈ 25′26	0.57071 AU	min. Earth dist.	14657 Jan 05 05:17	1° ≈ 32'14	0.55453 AU
morning grise 465 feb of 0 0 0.214 15°ae1520 morning frame 4655 feb of 10 420 15°ae1670 morning max cl 4656 feb feb 12 16.41 16°ae4005 morning max cl 4656 feb feb 12 16.41 morning max cl 4656 feb feb feb 12 16.41 morning max cl 4656 feb feb feb 12 16.41 morning max cl 4656 feb feb feb 12 16.41 morning max cl 4656 feb	inferior conj	14656 Jan 27 15:33	19° ≈ 30'11	-4°41'57	inferior conj	14657 Jan 07 03:12	0° ≈ 23'33	-5°43'32
airce of section of all control of section of the section of section of the section of	minimum elong	14656 Jan 28 00:39	19° ≈ 14'47	4°38'47	minimum elong	14657 Jan 07 09:13	0° ≈ 14'32	5°41'49
Section 14655 Feb 12 1641 68°se4005 18°se4005 14657 feb 16 14657 feb 16 16 17 18 16 18 18 18 18 18 18	morning rise	14656 Feb 05 02:14	15° ≈ 15′20			14657 Jan 07 18:58	30°Ŗる	
morning max el 1465 Feb 16 05.11 99*se/332 18*9590 morning max el 14657 Jan 27 10.20 07*se morning max el 14656 Mar 12 04.04 07*Y morning max el 14657 Jan 29 14.03 20*073 07*30*	direct	14656 Feb 07 04:20	15° ≈ 02'13		morning rise	14657 Jan 15 17:41	26° る 27'13	
March 1465 Feb 24 0147 0°H 1465 Feb 24 0147 0°H 1465 Feb 1465 Teb 15 2223 0°H	asc. node	14656 Feb 12 16:41	16° ≈ 40′05		direct	14657 Jan 18 06:39	26° る 10'54	
morning set 14656 Mar 10 19:42 0°P° morning set 14657 Feb 15 22.23 0°H 3657 Feb 15 20.20 0°H 3657 Feb 15 10 180 0°H 3657 Feb 15 15 180 0°H 3657 Feb 15 180	morning max el	14656 Feb 16 05:11	19° ≈ 26′32	18°59'50		14657 Jan 27 10:20	0° ≈	
Marcian 14656 Mar 10 19-42 0°P moming set 14657 Feb 15 12-223 0°P3 67		14656 Feb 24 01:47			morning max el	14657 Jan 28 20:08	1° ≈ 16′13	20°07'30
Superior con 14656 Mar 12 0.402 2°P3'S06 0°34'12 Superior con 14657 Feb 23 15.21 16°P4'20'28 0°59'56 desc. node 14656 Mar 19 0.342 15°P2'82'8 1.390.1 AU max. Earth dist. 14656 Mar 19 0.342 15°P2'82'8 1.390.1 AU max. Earth dist. 14656 Mar 19 0.342 15°P2'82'8 1.390.1 AU max. Earth dist. 14657 Mar 19 0.342 15°P3'47'4 1.360 AU 14656 Mar 2 1.022 22°P0'90'3 Superior con 14657 Mar 19 0.124 0°19'83'4 1.360 AU 14656 Mar 2 1.022 22°P0'90'3 Superior con 14657 Mar 19 0.124 0°19'83'4 1.360 AU 14656 Mar 2 1.025 0°14 0°1	morning set	14656 Mar 03 16:43			asc. node	14657 Jan 29 14:05		
Superior Cong 14656 Mar 12 0.402 2°93506 0°34152 minimum elong 14656 Mar 12 0.605 2°04451 0°3355 minimum elong 14657 Mar 2 15.21 16°42078 0°5954 max. Earth dist. 14656 Mar 19 0.342 15°02790730 max. Earth dist. 14657 Mar 2 10.23 2°7474 1.3601 AU evening rise 14656 Mar 2 10.40 0°14		14656 Mar 10 19:42	0 ° Υ		morning set	14657 Feb 15 22:23	0°) 36′57	
Minimum clong 14656 Mar 1 0.05 2°P44151 0°3355 minimum clong 14657 Feb 23 15.21 16°P43734 0°19'59'54						14657 Feb 15 15:08	0° ∀	
Marie Band 14656 Mar 16 85.6 16 19 19 19 19 19 19 19 19 19 19 19 19 19	1 3							
max. Earth dist. 14656 Mar 19 0.42 15°P(28°50 1.39041 AU max. Earth dist. 14657 Mar 02 16.45 0°P(3°50 1.36051 AU a.36801 AU evening rise 14656 Mar 22 16.05 0°B desc. node 14657 Mar 02 16.45 0°P(3°8°33 1.3005 AU 0°P(3°8°33 1.4057 Mar 05 0.40 4°P(3°43°22 1.3005 AU 0°P(3°8°33 1.4057 Mar 05 0.40 0°P(3°8°33 1.4057 Mar 05 0.40 4°P(3°43°22 1.4057 Mar 05 0.40 0°P(3°8°33 1.4057 Mar 05 0.40 0°P(3	•	14656 Mar 12 06:05		0°33'55		14657 Feb 23 15:21		
Perning rise 1465 Mar 2 2329 22°°V 0930	desc. node	14656 Mar 16 08:56			minimum elong	14657 Feb 23 18:00		
14656 Mar 27 16.05				1.39041 AU	max. Earth dist.	14657 Mar 01 10:23		1.36801 AU
14656 Apr 17 00.56 0°H 14656 Apr 20 056 18 11 14512 24°26'46 14657 Apr 20 1500 0°B 14656 Apr 20 18 18 18 18 18 18 18 1	evening rise							
Pereining max ell 14656 Apr 27 0245 18 TL 4512 24°2646 evening max ell 14657 Apr 09 16.22 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383 25°4123 25°8 383								
Petrograde 14656 May 16 13.15 18° III 22' 14657 Apr 09 16.22 25° 838'34 25° 41'22 23° 61.00 25° 418'12 25° 418'12 25° 418'12 25° 418'12 25° 418'12 25° 418'13 25° 41'12 25° 418'13 25° 41'12 25° 41'13 25°		•			evening rise			
Second 14656 May 10 13:15 18° M 12'32 retrograde 14657 Apr 14 19:22 0° M	-	-		24°26'46				
min. Earth dist.	•	•			evening max el	•	_	25°41'22
min. Earth dist.						-		
Inferior conj 14656 May 19 15:41 9° II38'30 2°27'21 evening set 14657 Apr 28 03:08 0° II20'13 3° II40'14 14657 May 19 13:37 9° II45'27 2°25'56 14657 Apr 28 12:27 30° Re	•	•		0.60540.411	•			
minimum elong 14656 May 19 13:37 9° II 45'27 2°25'56 morning rise 14656 May 24 23:49 3° II 38'41 min. Earth dist. 14657 May 02 20:22 25° B4'306 0.67643 AU direct 14656 May 28 20:59 2° II 12'29 morning max el 14656 May 08 20:59 2° II 12'29 morning max el 14656 Jun 10 10:21 14″ II 48'22 morning rise 14657 May 03 18:48 23° B56'29 1°50'25 desc. node 14656 Jun 12 10:21 14″ II 48'22 morning max el 14657 May 03 18:48 23° B56'29 1°50'25 direct 14657 May 03 18:48 23° B56'29 1°50'25 morning set 14656 Jul 12 12:15 0° Ω 14656 Jul 12 12:15 0° Ω 14657 May 12 20:58 16° B52'51 morning max el 14656 Jul 12 12:15 0° Ω 14656 Jul 12 12:15 0° Ω 14657 May 12 20:58 16° B52'51 morning max el 14657 May 12 20:58 16° B52'51 morning max el 14656 Jul 18 18:00 0° Ω Ω 14656 Jul 18 10:00 0° Ω Q 14657 May 03 10:40 0° Ω 14657 May 03 18:40 0° Ω 14657 May 03 10:40 10° Ω 14657 May 03 10:40 10° Ω		-						
morning rise 14656 May 24 23:49 3° Π38'41 min. Earth dist. 14657 May 02 09:22 25° 843'06 0.67643 AU direct 14656 May 28 20:59 2° Π12'29 inferior conj 14657 May 03 20:56 23° 846'29 15'15'1 16'65 morning max el 14656 Jun 05 09:11 6° Π23'49 19°53'17 minimum elong 14657 May 03 20:56 23° 856'29 15'05'25 16'65 Jun 05 09:11		•			evening set	•		
direct 14656 May 28 20.59 2° Π1229 inferior conj 14657 May 03 20.56 23° 84942 1°5151 morning max el 14656 Jun 12 10.21 14° 14822 morning rise 14657 May 03 18.48 23° 85629 1°5025 desc. node 14656 Jun 23 00.15 0° 6 morning rise 14657 May 12 20.58 16° 85251 morning set 14656 Jun 12 12.15 0° Ω morning max el 14657 May 12 20.58 16° 85251 morning set 14656 Jul 12 12.15 0° Ω morning max el 14657 May 12 00.58 16° 85251 morning set 14656 Jul 12 12.15 0° Ω morning max el 14657 May 12 00.58 16° 85251 morning set 14657 May 12 00.50 8° 12753 0.7m morning max el 14657 May 12 00.50 8° 12753 0.7m morning max el 14657 May 12 00.50 8° 12753 0.7m morning max el 14657 May 12 00.50 8° 12753 0.7m morning max el 14656 Jul 18 0.34 0° Ω (14458 AU	_	•		2°25'56	i. Darda dia	•		0.67642.411
Morning max el 14656 Jun 05 09:11 6° II 23'49 9°53'17 minimum elong 14657 May 03 18:48 23°856'29 1°50'25 desc. node 14656 Jun 12 10:21 14° II 48'22 morning rise 14657 May 12 20:58 16°85'25 lemorning set 14656 Jun 23 00:15 0°\$	=	•				•	_	
March 14656 Jun 12 10.21 14°H48'22 morning rise 14657 May 02 11.01 17°B'59'40 11.01 17°B'59'40 11.01 17°B'59'40 11.01 17°B'59'40 11.01 17°B'59'40 11.01 11°B'59'40 11°B'59'40 11.01 11°B'59'40 1		•		10052117	,	•		
Morning set 14656 Jul 23 00:15 0°S 1.3°S	•			19-55-17	C	•		1-30/23
Morning set 14656 Jul 12 12:15 0°\$\mathcal{Q}\$ 1.44658 AU 23:57 0°\$\mathcal{Q}\$ 1.44658 AU desc. node greatest brilliancy 14657 May 17 07:14 0°\$\mathcal{U}\$ 14656 Jul 12 12:15 0°\$\mathcal{Q}\$ 1.44658 AU desc. node greatest brilliancy 14657 May 30 07:17 4°\$\mathcal{U}\$ 14657 May 20 07:10 0.50 0.50 8°\$\mathcal{U}\$ 14656 Jul 18 03:45 9°\$\mathcal{Q}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}	desc. node				•	•		
Max. Earth dist. 14656 Jul 12 12:15 0° Ω 1.44658 AU desc. node greatest brilliancy 14657 Jun 02 00:50 8° 125'53 -0.7m	morning set					•		18°56'10
max. Earth dist. 14656 Jul 12 23:57 % 4623 1.44658 AU desc. node greatest brilliancy greatest brilliancy greatest brilliancy and greatest brilliancy greatest brilliancy and greatest brilliancy and greatest brilliancy greatest brilliancy and greatest brilliancy and greatest brilliancy greatest gr	morning set				morning max er	,		16 30 19
Superior conj 14656 Jul 18 03:45 9° Ω01'49 -2°04'18 morning set 14657 Jun 11 13:00 23° Π02'34 14656 Jul 14656 Jul 18 10:00 9° Ω27'08 2°04'49 max. Earth dist. 14657 Jun 16 00:40 0° © 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	may Farth diet			1 44658 ATT	desc node	•		
Superior conj 14656 Jul 18 03:45 9° Ω01'49 -2°04'18 morning set 14657 Jun 11 13:00 23° Π02'34 14:056 Jul 14656 Jul 30 18:55 0° Ψ max. Earth dist. 14657 Jun 16 00:40 0° Φ 1.4565 Aug 14656 Jul 31 14:26 1° Ψ22'48 asc. node 14656 Aug 18 06:11 28° Ψ15'34 18°05'34 minimum elong 14657 Jun 27 20:20 18° Φ25'46 -2°13'50 evening max el 14656 Aug 18 06:11 28° Ψ15'34 18°05'34 minimum elong 14657 Jul 27 20:20 18° Φ25'39 2°14'51 14656 Aug 20 07:04 0° Φ 14657 Jul 21 21:12 12° Ω27'38 evening set 14656 Aug 27 08:35 0° Φ57'57 asc. node 14657 Jul 23 21:09 0° Ψ 14656 Aug 28° Ψ15'34 18°05'34 asc. node 14657 Jul 24 09:40 0° Φ47'56 inferior conj 14656 Aug 29 01:10 30° R Ψ asc. node 14657 Jul 24 09:40 0° Ψ047'56 inferior conj 14656 Sep 02 16:58 25° Ψ15'36 1°37'45 retrograde 14657 Aug 10 08:10 15° Ψ19'41 minimum elong 14656 Sep 08 07:32 20° Ψ00'24 inferior conj 14657 Aug 17 03:14 8° Ψ54'25 2°24'23 morning rise 14656 Sep 08 07:32 20° Ψ00'24 inferior conj 14657 Aug 17 07:45 6° Ψ18'55 06.4978 AU minimum elong 14656 Sep 08 07:32 20° Ψ00'24 inferior conj 14657 Aug 17 07:45 6° Ψ18'55 06.4978 AU morning max el 14656 Aug 29 15:29 25° Ψ03'30 27°52'22 morning rise 14657 Aug 28 08:10 30° R Φ 4656 Aug 08° Ψ13'31 2°23'21 4656 Aug 08:04 08° Ψ13'31 2°23'21 4656 Aug 08:04 08° Ψ13'31 2°23'21 4656 Aug 08:04 08° Ψ13'31 28° Ψ13'31 28° Ψ13'31 28° Ψ13'31 28° Ψ13'31 30° R Φ 4656 Aug 08:04 08° Ψ13'31 28° Ψ13'31 30° R Φ 4656 Aug 08:04 08° Ψ13'31 48° Ψ13'31 48	max. Lattii dist.	14030 Jul 12 23.37	0 664023	1.44030 AC		•		-0.7m
minimum elong 14656 Jul 18 10:00 9° Ω 27'08 2°04'49 max. Earth dist. 14657 Jun 25 17:19 15° Φ05'50 1.45657 AU evening rise 14656 Aug 06 12:59 11° № 26'09 superior conj 14657 Jun 27 20:21 18° Φ25'46 -2°13'50 evening max el 14656 Aug 18 06:11 28° № 15'34 18°05'34 minimum elong 14657 Jun 27 20:20 18° Φ25'39 2°14'51 14656 Aug 20 07:04 0° Φ 14657 Jul 21 22:12 12° Ω 27'38 evening set 14656 Aug 27 08:35 0° Φ 57'57 evening rise 14656 Aug 29 00:10 30° R № asc. node 14657 Jul 23 21:09 0° № evening max el 14656 Aug 29 02:10 30° R № asc. node 14657 Aug 24 09:40 0° № 18°25'33 1°37'45 retrograde 14657 Aug 10 20:04 11° № 53'29 18°25'33 1°37'45 retrograde 14657 Aug 10 20:04 11° № 53'29 18°25'33 1°37'45 retrograde 14657 Aug 10 20:04 11° № 53'29 18°25'33 1°37'45 retrograde 14657 Aug 10 08:10 15° № 19'41 1°	superior coni	14656 Jul 18 03:45	9° Ω 01'49	-2°04'18	-			0.7111
14656 Jul 30 18:55 0° m max. Earth dist. 14657 Jun 25 17:19 15°©05'50 1.4567 AU evening rise 14656 Aug 06 12:59 11° m² 26'09 superior conj 14657 Jun 27 20:21 18°©25'46 -2°13'50 evening max el 14656 Aug 18 06:11 28° m¹ 15'34 18°05'34 minimum elong 14657 Jun 27 20:20 18°©25'39 2°14'51 14656 Aug 20 07:04 0° \(\text{\Phi}\) 14656 Aug 21 15:27 1° \(\text{\Phi}\) 35'55 evening rise 14657 Jul 12 22:12 12° \(\text{\Phi}\) 22'738 evening set 14656 Aug 27 08:35 0° \(\text{\Phi}\) 55'55 evening max el 14657 Jul 12 22:12 12° \(\text{\Phi}\) 27'738 evening set 14656 Aug 29 00:10 30° \(\text{\Phi}\) 38'40 evening max el 14657 Aug 01 20:04 11° m³ 53'29 18°25'33 minimum elong 14656 Sep 02 16:88 25° m³ 35'36 1°37'45 retrograde 14657 Aug 10 20:04 11° m³ 53'29 18°25'33 minimum elong 14656 Sep 03 16:58 22° m³ 45'42 0.62926 AU evening set 14657 Aug 10 20:04 11° m³ 53'29 18°25'33 morning rise 14656 Sep 08 23:10 19° m³ 00'05 minimum elong 14657 Aug 10 30:14 8° m³ 54'25 2° 24'23 morning rise 14656 Sep 08 23:15 15:16 17° m³ 01'51 min. Earth dist. 14657 Aug 10 07:45 6° m³ 18'55 0.64978 AU morning max el 14656 Oct 24 10:54 0° m² 27° 52'22 morning rise 14657 Aug 20 13:37 29° \(\text{\Phi}\) 53'45 evening set 14657 Aug 20 13:37 29° \(\text{\Phi}\) 53'45 evening set 14657 Aug 20 13:37 0.64978 AU morning max el 14656 Oct 24 10:54 0° m² 0° m	1 3				morning sec			
evening rise 14656 Jul 31 14:26 1° m/22'48 superior conj 14657 Jul 27 20:21 18° 525'46 -2° 13'50 evening max el 14656 Aug 18 06:11 28° m/15'34 18° 05'34 minimum elong 14657 Jul 27 20:20 18° 52'5'39 2° 14'51 14656 Aug 20 07:04 0° Ω 14656 Aug 20 00:10 30° R m asc. node 14657 Jul 23 21:09 0° m 14656 Aug 20 00:10 30° R m asc. node 14657 Jul 24 09:40 0° m/47'56 14656 Aug 29 00:10 30° R m asc. node 14657 Aug 01 20:04 11° m/53'29 18° 25'33 18° 25'33 18° 25'33 18° 25'33 18° 25'33 18° 25'33 18° 25'33 18° 25'33 18° 25' m/31'45 14656 Aug 20 00:10 18° m/53'29 18° 25'33 18°	g			2 0	max. Earth dist.			1.45657 AU
asc. node 14656 Aug 06 12:59 11° № 26'09 superior conj 14657 Jun 27 20:21 18° 925'46 -2°13'50 evening max el 14656 Aug 18 06:11 28° № 15'34 18°05'34 minimum elong 14657 Jul 05 04:03 0° Ω retrograde 14656 Aug 20 07:04 0° Ω evening rise 14657 Jul 05 04:03 0° Ω evening set 14656 Aug 27 08:35 0° Ω 57'57 evening rise 14657 Jul 23 21:09 0° № inferior conj 14656 Aug 29 00:10 30° R № asc. node 14657 Jul 24 09:40 0° № 47'56 inferior conj 14656 Sep 02 14:40 25° № 41'46 1°38'40 evening max el 14657 Aug 01 20:04 11° № 53'29 18°25'33 minimum elong 14656 Sep 02 16:58 25° № 35'36 1°37'45 retrograde 14657 Aug 08 06:10 15° № 19'41 desc. node 14657 Aug 08 06:10 15° № 19'41 10° № 30'05 minimum elong 14657 Aug 11 08:10 14° № 26'37 desc. node 14656 Sep 08 07:32 20° № 00'24 inferior conj 14657 Aug 17 03:14 8° № 54'25 2°24'23 morning max el 14656 Sep 08 07:15	evening rise							
evening max el 14656 Aug 18 06:11 14656 Aug 20 07:04 14656 Aug 24 15:27 1° Ω 35'55 150 14656 Aug 24 15:27 16 Ω 35'55 14656 Aug 27 08:35 14656 Aug 27 08:35 14656 Aug 29 00:10 15° № 1416 14656 Aug 29 00:10 15° № 1416 14656 Aug 29 00:10 15° № 1416 14656 Aug 20 14656 Aug 29 00:10 15° № 1416 14656 Aug 20 146	•				superior coni	14657 Jun 27 20:21	18° © 25'46	-2°13'50
14656 Aug 20 07:04 0° \(\Omega\) 14656 Aug 21 15:27 1° \(\Omega\)35'55 evening rise 14657 Jul 12 22:12 12° \(\Omega\)27'38 evening set 14656 Aug 27 08:35 0° \(\Omega\)57'57 asc. node 14657 Jul 23 21:09 0° \(\Omega\) 0° \(\Omega\)7'56 inferior conj 14656 Aug 29 00:10 30° \(\Omega\) 30° \(\Omega\) 41'46 1° 38'40 evening max el 14657 Aug 01 20:04 11° \(\Omega\)53'29 18° 25'33 minimum elong 14656 Sep 02 16:58 25° \(\Omega\)45'42 0.62926 AU evening set 14657 Aug 11 08:10 14° \(\Omega\)25'37 48° \(\Omega\)54'24 68c. node 14656 Sep 08 07:32 20° \(\Omega\)00'24 inferior conj 14656 Sep 08 23:10 19° \(\Omega\)30'05 minimum elong 14656 Sep 08 23:10 19° \(\Omega\)30'05 minimum elong 14657 Aug 11 08:10 14° \(\Omega\)25'33 8° \(\Omega\)47'31 2° 23'21 direct 14656 Sep 15 15:16 17° \(\Omega\)01'51 min. Earth dist. 14657 Aug 17 03:14 8° \(\Omega\)54'25 2° 24'23 direct 14656 Sep 29 15:29 25° \(\Omega\)02'34 27° 52'22 morning rise 14657 Aug 20 05:04 0° \(\Omega\)35'42 4656 Oct 24 10:54 0° \(\Omega\). 40° \(\Omega\)25 \(\Omega\)02'34 27° 52'22 morning rise 14657 Aug 20 05:04 0° \(\Omega\)35'42 4656 Oct 24 10:54 0° \(\Omega\). 40° \(\Omega\)25 \(\Omega\)02'34 27° 52'22 direct 14657 Aug 20 05:04 0° \(\Omega\)35'42 4657 Aug 20 05:04 0° \(\Omega\)35'42 4657 Aug 20 05:04 14657 Aug 20 05:04 0° \(\Omega\)35'42 4656 Oct 24 10:54 0° \(\Omega\). 40° \(\Omega\)15'50 17° \(\Omega\)17'16 direct 14657 Aug 20 13:37 29° \(\Omega\)54'41 4657 Aug 20 10:34 20° \(\Omega\)54'41 4657 Aug 20 10:34 20° \(\Omega\)54'41 4656 Nov 00 10:47 18° \(\Omega\)11'45 40° \(\Omega\)64'41 4667 Aug 30 10:45 0° \(\Omega\)65'42 40° \(\Omega\)65'42 40° \(\Omega\)65'42 40° \(\Omega\)65'42 40° \(\Omega\)65'42 40° \(\Omega\)65'44 40° \(\Omega\)6		-		18°05'34				
retrograde 14656 Aug 24 15:27 1°\Omegas\sis\$555 evening rise 14657 Jul 12 22:12 12°\Omegas\cangle\	C	-			Č			
evening set 14656 Aug 27 08:35 0°\(\Omegas\)57'57 asc. node 14657 Jul 23 21:09 0°\(\mathbb{\text{N}}\) 14656 Aug 29 00:10 30°\(\mathbb{\text{N}}\) inferior conj 14656 Sep 02 14:40 25°\(\mathbb{\text{N}}\)41'46 1°38'40 evening max el 14657 Aug 01 20:04 11°\(\mathbb{\text{N}}\)53'29 18°25'33 minimum elong 14656 Sep 02 16:58 25°\(\mathbb{\text{N}}\)35'36 1°37'45 retrograde 14657 Aug 08 06:10 15°\(\mathbb{\text{N}}\)19'41 min. Earth dist. 14656 Sep 05 08:31 22°\(\mathbb{\text{N}}\)45'2 0.62926 AU evening set 14657 Aug 11 08:10 14°\(\mathbb{\text{N}}\)26'37 desc. node 14656 Sep 08 23:10 19°\(\mathbb{\text{N}}\)30'05 minimum elong 14657 Aug 17 03:14 8°\(\mathbb{\text{N}}\)47'31 2°23'21 direct 14656 Sep 15 15:16 17°\(\mathbb{\text{N}}\)01'51 min. Earth dist. 14657 Aug 17 05:33 8°\(\mathbb{\text{N}}\)47'31 2°23'21 direct 14656 Oct 04 04:23 0°\(\mathbb{\text{L}}\) 4656 Oct 24 10:54 0°\(\mathbb{\text{L}}\) 0°\(\mathbb{\text{L}}\) desc. node 14657 Aug 28 08:10 30°\(\mathbb{\text{N}}\) 30°\(\mathbb{\text{N}}\) 4850 No 02 15:00 17°\(\mathbb{\text{N}}\)17'16 direct 14657 Aug 29 13:37 29°\(\mathbb{\text{N}}\)25'42 0°\(\mathbb{\text{N}}\) 4850 No 03 01:47 18°\(\mathbb{\text{N}}\)17'16 direct 14657 Aug 30 19:45 0°\(\mathbb{\text{N}}\) 14657 Aug 29 13:37 29°\(\mathbb{\text{N}}\)25'42 0°\(\mathbb{\text{N}}\) 4850 No 03 01:47 18°\(\mathbb{\text{N}}\)17'16 direct 14657 Aug 30 19:45 0°\(\mathbb{\text{N}}\) 14657 Aug 29 13:37 29°\(\mathbb{\text{N}}\)25'42 14657 Aug 29 13:37 29°\(\mathbb{\text{N}}\)25'42 14657 Aug 29 13:37 29°\(\mathbb{\text{N}}\)25'42 14657 Aug 29 13:37 20°\(\mathbb{\text{N}}\)25'42 14657 Aug 29 13:37 20°\(\mathbb{\text{N}}\)30°\(\mathbb{\text{N}}\) 14657 Aug 2	retrograde	_	1° Ω 35'55		evening rise	14657 Jul 12 22:12		
14656 Aug 29 00:10 30°R m asc. node 14657 Jul 24 09:40 0°m 47'56 linferior conj 14656 Sep 02 14:40 25°m 41'46 1°38'40 evening max el 14657 Aug 01 20:04 11°m 53'29 18°25'33 minimum elong 14656 Sep 02 16:58 25°m 35'36 1°37'45 retrograde 14657 Aug 08 06:10 15°m 19'41 min. Earth dist. 14656 Sep 05 08:31 22°m 45'42 0.62926 AU evening set 14657 Aug 11 08:10 14°m 26'37 desc. node 14656 Sep 08 07:32 20°m 00'24 inferior conj 14657 Aug 17 03:14 8°m 54'25 2°24'23 morning rise 14656 Sep 08 23:10 19°m 30'05 minimum elong 14657 Aug 17 05:33 8°m 47'31 2°23'21 direct 14656 Sep 15 15:16 17°m 01'51 min. Earth dist. 14657 Aug 19 07:45 6°m 18'55 0.64978 AU morning max el 14656 Oct 04 04:23 0°m 25°m 02'34 27°52'22 morning rise 14657 Aug 28 08:10 30°m 35'42 14656 Oct 04 04:23 0°m 14656 Nov 02 15:00 17°m 17'16 direct 14657 Aug 29 13:37 29°Ω54'41 asc. node 14656 Nov 03 01:47 18°m 17'15 direct 14657 Aug 30 19:45 0°m 0°m 17'15 0°m 17'15 direct 14657 Aug 30 19:45 0°m 0°m 17'15 0°m	evening set		0° £ 57'57			14657 Jul 23 21:09		
minimum elong min. Earth dist. 14656 Sep 02 16:58 25° ₹ 35'36 1°37'45 retrograde 14657 Aug 08 06:10 15° ₹ 19'41 min. Earth dist. 14656 Sep 05 08:31 22° ₹ 45'42 0.62926 AU evening set 14657 Aug 11 08:10 14° ₹ 26'37 desc. node 14656 Sep 08 07:32 20° ₹ 00'02'24 inferior conj 14657 Aug 17 03:14 8° ₹ 54'25 2°24'23 morning rise 14656 Sep 08 23:10 19° ₹ 30'05 minimum elong 14657 Aug 17 05:33 8° ₹ 47'31 2°23'21 direct 14656 Sep 15 15:16 17° ₹ 00'151 min. Earth dist. 14657 Aug 19 07:45 6° ₹ 18'55 0.64978 AU morning max el 14656 Sep 29 15:29 25° ₹ 00'2'34 27°52'22 morning rise 14657 Aug 23 01:38 2° ₹ 32'26 desc. node 14657 Aug 26 05:04 0° ₹ 35'42 14656 Oct 24 10:54 0° ₹ 4657 Aug 28 08:10 30° ₹ € 14657 Aug 29 13:37 29° € 15'41 14657 Aug 28 08:10 30° ₹ € 14657 Aug 29 13:37 29° € 15'41 14657	-	-	30°R Mp		asc. node	14657 Jul 24 09:40	0° Mp 47'56	
min. Earth dist. 14656 Sep 05 08:31 22° № 45'42 0.62926 AU evening set 14657 Aug 11 08:10 14° № 26'37 desc. node 14656 Sep 08 07:32 20° № 00'24 inferior conj 14657 Aug 17 03:14 8° № 47'31 2°23'21 direct 14656 Sep 15 15:16 17° № 01'51 min. Earth dist. 14657 Aug 17 05:33 8° № 47'31 2°23'21 direct 14656 Sep 29 15:29 25° № 02'34 27°52'22 morning rise 14657 Aug 19 07:45 6° № 18'55 0.64978 AU morning max el 14656 Oct 04 04:23 0° £ desc. node 14657 Aug 28 08:10 30° № 0 asc. node 14656 Nov 02 15:00 17° № 17'16 direct 14657 Aug 29 13:37 29° € € € € № 18'55 0° № 0 asc. node 14656 Nov 03 01:47 18° № 11'45	inferior conj	14656 Sep 02 14:40	25° Mp 41'46	1°38'40	evening max el	14657 Aug 01 20:04	11° m 53'29	18°25'33
desc. node	minimum elong	14656 Sep 02 16:58	25° M 35'36	1°37'45	retrograde	14657 Aug 08 06:10	15° m) 19'41	
morning rise 14656 Sep 08 23:10 19° № 30'05 minimum elong 14657 Aug 17 05:33 8° № 47'31 2°23'21 direct 14656 Sep 15 15:16 17° № 01'51 min. Earth dist. 14657 Aug 19 07:45 6° № 18'55 0.64978 AU morning max el 14656 Sep 29 15:29 25° № 02'34 27°52'22 morning rise 14657 Aug 23 01:38 2° № 32'26 14656 Oct 04 04:23 0° № desc. node 14657 Aug 26 05:04 0° № 35'42 14656 Oct 24 10:54 0° № 14657 Aug 28 08:10 30° № 0 14656 Nov 02 15:00 17° № 17'16 direct 14657 Aug 29 13:37 29° № 54'41 morning set 14656 Nov 03 01:47 18° № 11'45	min. Earth dist.	14656 Sep 05 08:31	22° Mp 45'42	0.62926 AU	evening set	14657 Aug 11 08:10	14° m 26'37	
direct 14656 Sep 15 15:16 17° № 01'51 min. Earth dist. 14657 Aug 19 07:45 6° № 18'55 0.64978 AU morning max el 14656 Sep 29 15:29 25° № 02'34 27°52'22 morning rise 14657 Aug 23 01:38 2° № 32'26 14656 Oct 04 04:23 0° £ desc. node 14657 Aug 26 05:04 0° № 35'42 14656 Oct 24 10:54 0° № 14657 Aug 28 08:10 30° R.O. asc. node 14656 Nov 02 15:00 17° № 17'16 direct 14657 Aug 29 13:37 29° Oct 54'41 14657 Aug 28 08:10 0° № 14657 Aug 29 13:37 29° Oct 54'41 14657 Aug 28 08:10 0° № 14657 Aug 29 13:37 29° Oct 54'41 14657 Aug 29 13:37 2	desc. node	14656 Sep 08 07:32	20° Mp 00'24		inferior conj	-	8° m 54'25	2°24'23
morning max el 14656 Sep 29 15:29 25° ₹ 02'34 27°52'22 morning rise 14657 Aug 23 01:38 2° ₹ 32'26 14656 Oct 04 04:23 0° £ desc. node 14657 Aug 26 05:04 0° ₹ 35'42 14656 Oct 24 10:54 0° ₹ 14657 Aug 28 08:10 30° ₹ Ω asc. node 14656 Nov 02 15:00 17° ₹ 17' ₹ 18' ₹ 11'45 direct 14657 Aug 29 13:37 29° Ω 54'41 norning set 14656 Nov 03 01:47 18° ₹ 18' ₹ 11'45 direct 14657 Aug 30 19:45 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0° ₹ 0°	morning rise	14656 Sep 08 23:10	19° m 30'05		minimum elong		8° m 47'31	2°23'21
14656 Oct 04 04:23 0° Ω desc. node 14657 Aug 26 05:04 0° № 35'42 14656 Oct 24 10:54 0° № 14657 Aug 28 08:10 30° № € asc. node 14656 Nov 02 15:00 17° № 17'16 direct 14657 Aug 29 13:37 29° ℚ 54'41 morning set 14656 Nov 03 01:47 18° № 11'45 14657 Aug 30 19:45 0° №	direct	14656 Sep 15 15:16	17° Mp 01'51		min. Earth dist.	14657 Aug 19 07:45	6° Mp 18′55	0.64978 AU
14656 Oct 24 10:54 0° μ 14657 Aug 28 08:10 30° R Ω asc. node 14656 Nov 02 15:00 17° μ 17'16 direct 14657 Aug 29 13:37 29° Ω 54'41 morning set 14656 Nov 03 01:47 18° μ 11'45 14657 Aug 30 19:45 0° ψ	morning max el	14656 Sep 29 15:29		27°52'22	morning rise	14657 Aug 23 01:38	2° m 32'26	
asc. node 14656 Nov 02 15:00 17° M17'16 direct 14657 Aug 29 13:37 29° Q 54'41 morning set 14656 Nov 03 01:47 18° M11'45 14657 Aug 30 19:45 0° M2		14656 Oct 04 04:23			desc. node	_		
morning set 14656 Nov 03 01:47 18° ML11'45 14657 Aug 30 19:45 0° Mp						•		
					direct	•		
max. Earth dist. 14656 Nov 08 04:41 28° IL54'13 1.31973 AU morning max el 14657 Sep 12 02:05 7° ID 49'53 27°14'32	•					_		
	max. Earth dist.	14656 Nov 08 04:41	28°IIL54'13	1.31973 AU	morning max el	1465 / Sep 12 02:05	/~mp49'53	27°14'32

	14657 Sep 29 07:00	0∘ ⊽		morning set	14658 Sep 30 12:11	14° ≏ 14'08	
	14657 Oct 16 18:38	0° M .		max. Earth dist.	14658 Oct 04 07:15	21° ≏ 26'30	1.35010 AU
morning set	14657 Oct 17 13:20	1°M30'36		asc. node	14658 Oct 07 08:20	27° ≏ 26'59	
asc. node	14657 Oct 20 11:42	7° M 19'33			14658 Oct 08 14:41	0° M	
max. Earth dist.	14657 Oct 21 22:46	10°M18'06	1.33233 AU				
				superior conj	14658 Oct 09 17:39	2°M17'28	0°22'03
superior conj	14657 Oct 25 21:14	18°M32'23	0°48'45	minimum elong	14658 Oct 09 16:26	2°MJ11'14	0°22'15
minimum elong	14657 Oct 25 19:06	18°ML21'02	0°49'04	evening rise	14658 Oct 17 08:04	18° M .06'40	
	14657 Oct 31 05:15	0° ∡ ¹			14658 Oct 23 06:14	0° ∡ ¹	
evening rise	14657 Nov 01 23:25	3° ∡ ¹45'41		evening max el	14658 Nov 05 00:54	18° ∡ ¹59'04	20°40'41
	14657 Nov 16 03:42	ರ°0		desc. node	14658 Nov 08 22:50	22° ∡ 12'39	
desc. node	14657 Nov 22 01:35	7° る 27'39		retrograde	14658 Nov 16 07:39	24° ₹ 35'39	
evening max el	14657 Nov 23 04:49	8° る 36'57	22°12'30	evening set	14658 Nov 18 16:34	24° ∡ °21'54	
retrograde	14657 Dec 05 21:16	14° る 53'49		inferior conj	14658 Nov 27 14:09	20° ∡ ¹27'57	-5°11'23
evening set	14657 Dec 09 08:39	14° පි 27'12		minimum elong	14658 Nov 27 04:41	20° ∡ ′41′33	5°08'18
inferior conj	14657 Dec 17 22:43	10° る 33'45	-5°57'46	min. Earth dist.	14658 Nov 28 17:05	19° ∡ ⁴49'09	0.54580 AU
minimum elong	14657 Dec 17 20:08	10° る 37'23	5°56'37	morning rise	14658 Dec 05 16:46	16° ∡ ³31'58	
min. Earth dist.	14657 Dec 17 11:18	10° ප් 49'46	0.54561 AU	direct	14658 Dec 10 02:07	15° ∡ ′50'41	
morning rise	14657 Dec 26 08:38	6° ප 46'36		morning max el	14658 Dec 23 08:36	22° ∡ 18′23	23°24'25
direct	14657 Dec 29 18:11	6° පි 20'51			14658 Dec 30 00:49	0°₹	
morning max el	14658 Jan 10 20:11	12° る 09'20	21°37'50	asc. node	14659 Jan 03 08:39	6° る 23'07	
asc. node	14658 Jan 16 11:25	18° ප් 41'08		morning set	14659 Jan 15 19:53	0° ≈ 05'35	
	14658 Jan 23 13:57	0° ≈			14659 Jan 15 18:50	0° ≈	
morning set	14658 Jan 31 08:10	15° ≈ 20'27					
	14658 Feb 07 06:40	0° ∀		superior conj	14659 Jan 22 17:01	14° ≈ 59'40	1°31'15
				minimum elong	14659 Jan 22 18:34	15° ≈ 08'05	1°31'56
superior conj	14658 Feb 07 12:42	0°) 31'30	1°18'54	max. Earth dist.	14659 Jan 25 16:52	21° ≈ 23′15	1.33126 AU
minimum elong	14658 Feb 07 15:04	0°) 43′51	1°19'14		14659 Jan 29 21:17	0° ∀	
max. Earth dist.	14658 Feb 11 21:57	9°) 30′37	1.34778 AU	evening rise	14659 Jan 30 11:58	1°) 13′20	
evening rise	14658 Feb 16 01:59	17°) € 38'44		desc. node	14659 Feb 04 22:34	11° ¥ 37'16	
desc. node	14658 Feb 18 01:59	21°) 23'41			14659 Feb 15 20:42	0° Y	
	14658 Feb 22 21:23	0° Y		evening max el	14659 Mar 05 19:32	22° Y ′53'13	27°22'24
	14658 Mar 14 21:42	0 \circ 8			14659 Mar 16 16:07	$0^{\circ}S$	
evening max el	14658 Mar 23 06:16	9° 8 24'44	26°42'23	retrograde	14659 Mar 19 10:30	0° 8 22'39	
retrograde	14658 Apr 05 09:57	16° 8 49'34			14659 Mar 22 02:15	30° Ŗ ♈	
evening set	14658 Apr 11 19:59	14° 8 17'26		evening set	14659 Mar 26 04:02	27° Y ′53′12	
asc. node	14658 Apr 14 08:00	11° 8 56'44		min. Earth dist.	14659 Mar 30 00:15	24° Y 22'38	0.64606 AU
min. Earth dist.	14658 Apr 15 20:32	10° 8 14'55	0.66318 AU	asc. node	14659 Apr 01 05:27	21° Y 59'22	
inferior conj	14658 Apr 17 20:44	7° 8 52'13	1°04'51	inferior conj	14659 Apr 01 12:34	21° Y '40'05	
minimum elong	14658 Apr 17 19:11	7° 8 56'50	1°03'45	minimum elong	14659 Apr 01 12:24	21° Y 40'30	0°05'20
morning rise	14658 Apr 23 19:32	2° 8 13'45		transit middle	14659 Apr 01 12:24	21° Y 40'30	0°05'20
direct	14658 Apr 26 19:15	1° 8 24'13		transit begin	14659 Apr 01 09:30	21° Y '48'21	
morning max el	14658 May 03 04:38	4° 8 46'07	18°15'49	transit end	14659 Apr 01 15:18	21° Y 32'40	
desc. node	14658 May 17 04:06	24° 8 16'11		morning rise	14659 Apr 07 22:45	16° Y 15′29	
	14658 May 20 18:29	Π °0		direct	14659 Apr 10 13:21	15° Y 40′20	
morning set	14658 May 22 19:04	3° Ⅱ 14′00		morning max el	14659 Apr 16 21:23	18° Y ′56′18	17°52'23
		_			14659 Apr 25 05:02	0°8	
superior conj	14658 Jun 07 04:41	27° ∐ 34′02		morning set	14659 May 04 05:03	14° 8 46'07	
minimum elong	14658 Jun 06 21:32	27° I 106'03	2°03'57	desc. node	14659 May 04 00:49	14° 8 28'26	
max. Earth dist.	14658 Jun 08 13:38	29° Ⅱ 42'42	1.45913 AU		14659 May 13 10:41	Π \circ 0	
	14658 Jun 08 18:05	0° ©					
evening rise	14658 Jun 23 05:29	22° © 32'46		superior conj	14659 May 17 22:07	7° Ⅱ 12'27	
	14658 Jun 28 00:25	0°Ω		minimum elong	14659 May 17 13:23	6° Ⅱ 37'33	
greatest brilliancy	14658 Jul 03 22:15	9° Ω 06'18	-0.8m	max. Earth dist.	14659 May 22 09:43	14° Ⅱ 18'41	1.45417 AU
asc. node	14658 Jul 11 06:28	19° Ω 44'19			14659 Jun 01 12:14	0°®	
evening max el	14658 Jul 16 06:35	25° Ω 40'38	19°02'46	evening rise	14659 Jun 02 19:30	1°959'53	0.6
retrograde	14658 Jul 23 02:14	29° Ω 25'59		greatest brilliancy	14659 Jun 17 14:08	24°©10'32	-0.6m
evening set	14658 Jul 26 13:30	28° Ω 16'16	2052100		14659 Jun 21 16:55	0° N	
inferior conj	14658 Aug 01 01:04	22° Ω 29'40	2°53'08	asc. node	14659 Jun 28 03:19	8° Ω 05'43	10055157
minimum elong	14658 Aug 01 02:44	22° Ω 24'19	2°52'11	evening max el	14659 Jun 29 11:43	9° Ω 30'47	19°55'57
min. Earth dist.	14658 Aug 02 15:11	20° Ω 27'37	0.66667 AU	retrograde	14659 Jul 07 00:51	13° Ω 47'29	
morning rise	14658 Aug 06 15:17	16° Ω 04'20		evening set	14659 Jul 10 21:56	12° Ω 20'32	2007144
direct	14658 Aug 12 19:03	13° Ω 26'25		inferior conj	14659 Jul 16 05:11	6°Ω21'00	3°07'44
desc. node	14658 Aug 13 02:32	13° Ω 26'47	26010112	minimum elong	14659 Jul 16 05:54	6° Ω 18'33	3°06'48
morning max el	14658 Aug 25 13:25		26°10'13	min. Earth dist.	14659 Jul 17 05:08	5°Ω00'07	0.67924 AU
	14658 Sep 02 07:45	0° െ 0°ആ		morning rise	14659 Jul 21 13:30	29°957'02	
	14658 Sep 22 11:14	U <u>44</u>			14659 Jul 21 12:10	30° ₹ ©	

direct	14650 Jul 27 06:20	27° © 26'54		inforior agni	14660 Jun. 20, 12:07	20° © 24'14	3°10'11
direct desc. node	14659 Jul 27 06:30 14659 Jul 30 23:57	27 \$20 34 28° \$219'50		inferior conj minimum elong	14660 Jun 29 13:07 14660 Jun 29 12:52	20°925'08	3°09'10
desc. node	14659 Aug 02 20:44	28 3 1930		min. Earth dist.	14660 Jun 29 12.32 14660 Jun 29 23:30	20 3 23 08 19° 5 48'09	0.68717 AU
marning may al	14659 Aug 08 00:13	4° Ω 28'55	24040120	morning rise	14660 Jul 04 18:04	19 \$348 09 14°\$04'46	0.08/1/ AU
morning max el	14659 Aug 27 15:19	0°m)	24 40 39	direct	14660 Jul 09 23:02	11°5044'31	
morning set	14659 Sep 12 18:13	رابات 0 26° Mg 12′09		direct desc. node	14660 Jul 16 21:16	11 948 31 14°949'58	
morning set	-	0° ⊽					22910122
Fauth 4:-4	14659 Sep 14 21:22		1 27107 ATT	morning max el	14660 Jul 20 11:05	18°503'51	23-19-32
max. Earth dist.	14659 Sep 16 07:47	2-223607	1.37187 AU		14660 Jul 30 10:46	0° N	
	14650 0 22 02 22	1.50.0.110.1	0000120		14660 Aug 19 17:08	0° mp	
superior conj	14659 Sep 23 03:39	15° Ω 31'24		morning set	14660 Aug 24 03:03	7° Mp 14'26	1.20550 111
minimum elong	14659 Sep 23 04:16	15° △ 34'24	0°09'22	max. Earth dist.	14660 Aug 28 05:49	14° Mp 14'23	1.39558 AU
behind sun begin	14659 Sep 22 22:50	15° ≏ 07'55					
behind sun end	14659 Sep 23 09:41	16° ≙ 00'57		superior conj	14660 Sep 04 23:27	28° Mp 05'46	
asc. node	14659 Sep 24 04:53	17° Ω 35'11		minimum elong	14660 Sep 05 02:47	28° mp 21'10	0°44'19
	14659 Sep 30 09:38	0° M			14660 Sep 06 00:02	0∘ ত	
evening rise	14659 Oct 01 12:14	2°M14'03		asc. node	14660 Sep 10 01:26	7° ≏ 40'56	
	14659 Oct 18 08:15	0° ∡		evening rise	14660 Sep 14 09:09	16° ≏ 00'51	
evening max el	14659 Oct 18 11:13	0° ∡ 07'28	19°28'55		14660 Sep 21 21:13	0° M	
desc. node	14659 Oct 26 20:11	4° ≯ 52'13		evening max el	14660 Sep 30 10:40	12°M05'16	18°39'21
retrograde	14659 Oct 28 02:40	4° ∡ ¹57'04		retrograde	14660 Oct 08 14:58	16° ™ 12'53	
evening set	14659 Oct 30 00:04	4° ∡ ¹46'44		evening set	14660 Oct 10 13:09	15° ™ 59'58	
inferior conj	14659 Nov 07 16:03	0° ∡ ′40′32	-3°39'05	desc. node	14660 Oct 12 17:35	15°M16'19	
minimum elong	14659 Nov 07 07:04	0° ≯ 55'00	3°35'08	inferior conj	14660 Oct 18 13:47	11°M34'32	-1°51'57
	14659 Nov 08 17:06	30°RM₊		minimum elong	14660 Oct 18 09:14	11° M 43'03	1°49'32
min. Earth dist.	14659 Nov 10 02:13	29° ™ 07'03	0.55519 AU	min. Earth dist.	14660 Oct 21 17:09	9° ™ 14'10	0.57208 AU
morning rise	14659 Nov 15 11:59	26°M₁6′04		morning rise	14660 Oct 26 01:57	6°M33'03	
direct	14659 Nov 20 18:49	25°M13'15		direct	14660 Nov 01 02:07	5°M03'54	
	14659 Dec 02 04:51	0° ∡ ¹		morning max el	14660 Nov 15 08:04	12°M30'37	26°42'24
morning max el	14659 Dec 04 17:58	2° ∡ 14'06	25°12'17	C	14660 Nov 29 00:57	0° ≯ ¹	
asc. node	14659 Dec 21 05:45	24° ∡ ′51'30		asc. node	14660 Dec 07 02:45	13° ∡ 54'37	
	14659 Dec 24 01:12	0° ठ		morning set	14660 Dec 14 17:44	29° х 19′05	
morning set	14659 Dec 31 07:39	14° る 46'37		. 8	14660 Dec 15 01:21	0°る	
3							
superior conj	14660 Jan 07 01:45	29° る 37'26	1°37'16	superior conj	14660 Dec 21 12:49	14° る 18'47	1°37'12
minimum elong	14660 Jan 07 02:17	29° る 40'19	1°38'12	minimum elong	14660 Dec 21 12:16	14° る 15'45	1°38'13
C	14660 Jan 07 05:51	0° ≈		max. Earth dist.	14660 Dec 22 01:22	15° る 28'53	1.31261 AU
max. Earth dist.	14660 Jan 08 18:44	3° ≈ 22'46	1.31937 AU	evening rise	14660 Dec 28 10:06	29° る 24'08	
evening rise	14660 Jan 14 07:32	15° ≈ 10'30		Č	14660 Dec 28 16:53	0° ≈	
8	14660 Jan 21 22:28	0°) €		desc. node	14661 Jan 08 15:59	21°≈06'59	
desc. node	14660 Jan 22 19:15	1°) 34'04			14661 Jan 14 02:30	0° ∀	
	14660 Feb 10 19:13	0°Υ		evening max el	14661 Jan 28 12:50	18°) €09'17	27°13'44
evening max el	14660 Feb 16 06:29	5°Υ'52'05	27°34'40	retrograde	14661 Feb 11 12:50	25°) (26'45	_,
retrograde	14660 Mar 01 03:58	13° Y 18'26	27 31 10	evening set	14661 Feb 18 07:01	23°\(\frac{1}{2}\)	
evening set	14660 Mar 08 00:45	10° Υ 59'08		min. Earth dist.	14661 Feb 22 03:20	20°) (41'12	0.60387 AU
min. Earth dist.	14660 Mar 11 18:51	7° Υ 55'38	0.62582 AU	inferior conj	14661 Feb 25 07:41	17°) 59'43	
inferior conj	14660 Mar 14 17:23	5° Υ 05'47		minimum elong	14661 Feb 25 13:07	17°) (48'11	2°25'49
minimum elong	14660 Mar 14 19:37	5°Υ00'24	1°05'01	morning rise	14661 Mar 04 22:32	13°) 10'38	2 23 49
asc. node	14660 Mar 18 02:54	2° Υ '03'10	1 05 01	asc. node	14661 Mar 05 00:21	13° ★ 09'26	
morning rise	14660 Mar 21 17:17	29° H 57'38		direct	14661 Mar 07 00:02	13 X 09 20 12° X 53'38	
morning rise		29 X 37 38 30° ₹ X			14661 Mar 14 06:22	16°) (33'38	17°58'57
direct	14660 Mar 21 14:38			morning max el		10 χ 3139	1/ 363/
direct	14660 Mar 24 00:12	29°) 33′24 0° °			14661 Mar 23 17:41	0° γ 10° Υ 59'17	
	14660 Mar 26 09:04		17046120	morning set	14661 Mar 29 20:04		
morning max el	14660 Mar 30 15:07	2°Υ55'01	17°46'29	desc. node	14661 Apr 06 18:01	25° Y 23′23	
morning set	14660 Apr 15 15:26	27° Y 27'36			14661 4 00 00 10	200002 (102	0010105
	14660 Apr 17 02:17	0°8		superior conj	14661 Apr 09 03:10	29° Y 36′02	
desc. node	14660 Apr 19 21:27	4° 8 52'29		minimum elong	14661 Apr 09 01:31	29° Y 28'45	0°19'15
		. = 0			14661 Apr 09 08:39	0°8	
superior conj	14660 Apr 27 12:47	17° 8 51'47		max. Earth dist.	14661 Apr 16 15:58	12° 8 26'00	1.42479 AU
minimum elong	14660 Apr 27 07:10	17° 8 28'24		evening rise	14661 Apr 22 08:40	21° 8 40'02	
max. Earth dist.	14660 May 04 03:00	28° 8 37'49	1.44229 AU		14661 Apr 27 16:47	0°Щ	
	14660 May 04 23:33	0°Щ			14661 May 18 20:45	0	
evening rise	14660 May 12 07:37	11° Ⅱ 30′25		evening max el	14661 May 25 05:00	7° © 13'47	22°19'29
	14660 May 24 14:59	0		asc. node	14661 May 31 21:21	12° © 14'33	
evening max el	14660 Jun 11 10:55	23°\$22'00	21°02'47	retrograde	14661 Jun 03 21:25	12° © 54'44	
asc. node	14660 Jun 14 00:17	25° © 40'55		evening set	14661 Jun 08 16:09	10° © 54'57	
retrograde	14660 Jun 19 23:50	28° © 19'00		inferior conj	14661 Jun 13 22:47	4° 5 34'36	3°01'44
evening set	14660 Jun 24 07:24	26° © 35'07		minimum elong	14661 Jun 13 21:37	4° © 38'38	3°00'34

min Forth dist	14661 Jun 12 20:04	1061101	0.60020 ATT	aga mada	14662 May 19 19:20	27°T20110	
min. Earth dist.	14661 Jun 13 20:04	4°9544'04	0.69030 AU	asc. node	14662 May 18 18:30	27° Ⅱ 29'19	
morning rise	14661 Jun 17 11:14 14661 Jun 19 02:55	30°RⅡ 28°Ⅱ21'45		evening set	14662 May 23 22:37	25° Ⅱ 15'33 19° Ⅱ 41'38	0.68861 AU
morning rise direct	14661 Jun 23 19:25	26° I I23'34		min. Earth dist.	14662 May 28 16:40 14662 May 29 08:13	19 Ⅱ 41 38 18° Ⅱ 48'19	0.08861 AU 2°42'54
direct	14661 Jul 01 03:09	0°95		minimum elong	14662 May 29 06:24	18° I I54'35	2°41'33
morning max el	14661 Jul 03 00:28	1°9346'26	21°51'54	morning rise	14662 Jun 03 14:09	18 Ⅱ 3433	2 41 33
desc. node	14661 Jul 03 18:30	2°932'32	21 31 34	direct	14662 Jun 07 18:18	11° I I05'29	
desc. Hode	14661 Jul 24 07:35	2 3 32 32		morning max el	14662 Jun 15 19:31	15° II 39'39	20°32'54
morning set	14661 Aug 04 11:28	17° Ω 13'05		desc. node	14662 Jun 20 15:38	21° I I08'24	20 32 34
max. Earth dist.	14661 Aug 10 07:46	26°Ω43'11	1.41853 AU	dese. Hode	14662 Jun 27 06:26	0°95	
max. Lattii dist.	14661 Aug 12 06:57	0°m	1.41033 AO	morning set	14662 Jul 14 22:08	26°9516'44	
	1 1001 11 45 12 00.57	٠ پ		morning sec	14662 Jul 17 07:37	0°Ω	
superior conj	14661 Aug 18 00:44	9° m 50′38	-1°20'17	max. Earth dist.	14662 Jul 23 16:51	10°Ω06'26	1.43795 AU
minimum elong	14661 Aug 18 06:58	10° m) 17'59		man. Darm digt.	11002 041 25 10.01	10 000020	1.15776110
asc. node	14661 Aug 27 22:00	27° Mp 40'22	1 1,02	superior conj	14662 Jul 30 03:27	20° Ω 37'20	-1°51'14
evening rise	14661 Aug 28 19:07	29° m) 17'37		minimum elong	14662 Jul 30 10:56	21°Ω08'24	
	14661 Aug 29 04:20	0∘ ত		8	14662 Aug 04 17:04	0° m)	
evening max el	14661 Sep 13 19:15	24° £ 43'59	18°10'56	evening rise	14662 Aug 11 13:34	11° Mp 52'42	
retrograde	14661 Sep 20 22:21	28° £ 22'07		asc. node	14662 Aug 14 18:35	17° m/29'13	
evening set	14661 Sep 23 02:45	28° ♀ 02'12			14662 Aug 22 06:44	0∘ <u>⊽</u>	
desc. node	14661 Sep 29 15:02	23° £ 54'59		evening max el	14662 Aug 28 08:40	7° £ 52'37	18°02'07
inferior conj	14661 Sep 30 09:15	23° ₽ 15'30	-0°14'20	retrograde	14662 Sep 03 21:29	11° ≏ 15'34	
minimum elong	14661 Sep 30 08:46	23° £ 16'35	0°13'50	evening set	14662 Sep 06 09:49	10° £ 44'59	
transit middle	14661 Sep 30 08:46	23° £ 16'35	0°13'50	inferior conj	14662 Sep 12 23:51	5° £ 38'35	1°03'30
transit begin	14661 Sep 30 07:00	23° £ 20′26		minimum elong	14662 Sep 13 01:36	5° £ 34'10	1°02'52
transit end	14661 Sep 30 10:32	23° ₽ 12'43		min. Earth dist.	14662 Sep 15 23:52	2° £ 38'57	0.61644 AU
min. Earth dist.	14661 Oct 03 15:49	20° £ 25'05	0.59351 AU	desc. node	14662 Sep 16 12:33	2° ₽ 09'01	
morning rise	14661 Oct 07 11:25	17° £ 39'50			14662 Sep 19 01:56	30°R, MD	
direct	14661 Oct 13 22:53	15° ≏ 44'02		morning rise	14662 Sep 19 14:45	29° m 37'09	
morning max el	14661 Oct 28 05:55	23° ₽ 29'22	27°40'08	direct	14662 Sep 26 06:46	27° m) 18'58	
5 5	14661 Nov 03 02:41	0° M .			14662 Oct 04 02:12	0∘ ⊽	
	14661 Nov 22 05:28	0° ⊼ ¹		morning max el	14662 Oct 10 10:55	5° £ 16′07	27°58'59
asc. node	14661 Nov 23 23:40	3° ∡ ¹23'17		C	14662 Oct 29 01:04	0° M .	
morning set	14661 Nov 29 00:23	13° ∡ ³38'33		asc. node	14662 Nov 10 20:29	23°M09'24	
max. Earth dist.	14661 Dec 05 09:27	27° ∡ ³35'15	1.31115 AU	morning set	14662 Nov 13 01:34	27°M39'08	
					14662 Nov 14 04:39	0° ∡ ¹	
superior conj	14661 Dec 06 00:20	28° ₹ 58'21	1°31'12	max. Earth dist.	14662 Nov 18 15:08	9° ∡ ³31'34	1.31506 AU
minimum elong	14661 Dec 05 22:51	28° ₹ ¹50'06	1°32'07				
	14661 Dec 06 11:21	0°ප		superior conj	14662 Nov 20 10:21	13° ∡ ¹29'39	1°19'20
evening rise	14661 Dec 12 17:26	13° る 48'48		minimum elong	14662 Nov 20 08:14	13° ∡ 17'56	1°20'02
	14661 Dec 20 17:55	0° ≈		evening rise	14662 Nov 27 03:31	28° ∡ 18'16	
desc. node	14661 Dec 26 12:50	10° ≈ 07'02			14662 Nov 27 22:26	0°ರ	
evening max el	14662 Jan 10 12:05	29° ≈ 36′02	26°17'56	desc. node	14662 Dec 13 09:47	28° ට 21'00	
	14662 Jan 10 22:20	0° ∀			14662 Dec 14 13:15	0° ≈	
retrograde	14662 Jan 24 11:10	6°) 41′44		evening max el	14662 Dec 23 02:49	10° ≈ 10′51	24°52'26
evening set	14662 Jan 30 19:08	5° ₩ 05'41		retrograde	14663 Jan 05 21:07	17° ≈ 03'50	
min. Earth dist.	14662 Feb 04 01:32	2°) €28'38	0.58217 AU	evening set	14663 Jan 11 09:13	15° ≈ 56′27	
inferior conj	14662 Feb 07 03:52	0°) 12′23	-3°55'01	min. Earth dist.	14663 Jan 16 14:42	13° ≈ 11′02	0.56316 AU
minimum elong	14662 Feb 07 12:18	29° ≈ 56'52	3°51'41	inferior conj	14663 Jan 19 03:14	11° ≈ 34'33	-5°12'15
	14662 Feb 07 10:35	30°R ≈		minimum elong	14663 Jan 19 11:49	11° ≈ 20'51	5°09'35
morning rise	14662 Feb 15 08:33	25° ≈ 44'34		morning rise	14663 Jan 27 16:40	7° ≈ 28'18	
direct	14662 Feb 17 08:43	25° ≈ 31'02		direct	14663 Jan 29 22:23	7° ≈ 14'21	
asc. node	14662 Feb 19 21:47	25° ≈ 53'51		asc. node	14663 Feb 06 19:12	10° ≈ 20'36	
morning max el	14662 Feb 25 15:20	29° ≈ 35'41	18°31'21	morning max el	14663 Feb 08 13:55	11° ≈ 54'56	19°25'48
	14662 Feb 26 01:03	0° ∀			14663 Feb 20 18:20	0° ∀	
morning set	14662 Mar 13 13:31	25° ₩ 05'18		morning set	14663 Feb 25 15:38	9°) 32′45	
	14662 Mar 16 02:45	0 ° $\mathbf{\gamma}$					
				superior conj	14663 Mar 05 18:18	25°) 42′26	0°45'57
superior conj	14662 Mar 22 14:31	12° Y 17′09	0°16'22	minimum elong	14663 Mar 05 20:45		0°45'44
minimum elong	14662 Mar 22 15:38	12° Ƴ 22'21	0°16'04		14663 Mar 07 23:41	0° Y	
desc. node	14662 Mar 24 14:34	15° Ƴ 57'37		desc. node	14663 Mar 11 11:06	6° Ƴ 31'10	
max. Earth dist.	14662 Mar 30 00:47	25° Ƴ 35′07	1.40353 AU	max. Earth dist.	14663 Mar 12 07:17	8° Ƴ 03'42	1.38076 AU
	14662 Apr 01 14:49	9° 8		evening rise	14663 Mar 16 00:12	14° Y 41'10	
evening rise	14662 Apr 03 06:01	2° 8 44'11			14663 Mar 25 04:51	9° 8	
	14662 Apr 20 23:17	Π °0			14663 Apr 15 17:49	Π °0	
evening max el	14662 May 07 19:50	21° II 07'01	23°40'36	evening max el	14663 Apr 20 09:22	5° Ⅱ 00'53	24°59'40
retrograde	14662 May 18 16:14	27° Ⅱ 29'21		retrograde	14663 May 02 07:17	11° Ⅱ 56'57	

	14662 M 05 15-46	110 T 00101			14664 4 20 22:11	220 420146	
asc. node	14663 May 05 15:46	11° I 109'01		evening set	14664 Apr 20 22:11	23° 8 38'46	
evening set	14663 May 08 01:13	9° ∏ 32'14	0.60216.411	asc. node	14664 Apr 21 13:08	23° 8 06'23	0.67124.444
min. Earth dist.	14663 May 12 11:13	4° Ⅱ 34'56	0.68216 AU	min. Earth dist.	14664 Apr 25 01:42	19° 8 16'50	0.67124 AU
inferior conj	14663 May 13 15:35	3° Ⅱ 01'37	2°13'38	inferior conj	14664 Apr 26 18:47	17° 8 09'37	1°33'21
minimum elong	14663 May 13 13:26	3° Ⅱ 08'43	2°12'11	minimum elong	14664 Apr 26 16:49	17° 8 15'44	1°32'02
	14663 May 16 01:07	30° ₹ 8		morning rise	14664 May 02 12:15	11° 8 24'31	
morning rise	14663 May 19 01:56	27° 8 06'04		direct	14664 May 05 17:38	10° 8 25'34	
direct	14663 May 22 18:16	25° 8 48'19		morning max el	14664 May 12 07:36	13° 8 56'32	18°37'06
morning max el	14663 May 29 22:02	29° 8 44'27	19°27'11	desc. node	14664 May 24 09:32	0° Ⅱ 06'31	
	14663 May 30 04:19	$\Pi^{\circ}0$			14664 May 24 07:50	Π °0	
desc. node	14663 Jun 07 12:39	10° Ⅱ 23'24		morning set	14664 Jun 02 16:32	14° Ⅲ 33'30	
greatest brilliancy	14663 Jun 11 13:07	16° Ⅱ 10'57	-0.7m		14664 Jun 12 13:34	0 \circ \odot	
	14663 Jun 20 17:20	0		max. Earth dist.	14664 Jun 18 02:44	8° © 39'17	1.45849 AU
morning set	14663 Jun 24 00:57	5° 5 04'58					
max. Earth dist.	14663 Jul 06 08:05	24° © 11'21	1.45168 AU	superior conj	14664 Jun 18 18:00	9° © 38'51	-2°11'53
				minimum elong	14664 Jun 18 14:34	9° 5 25'29	2°12'49
superior conj	14663 Jul 10 06:56	0° Ω 26'49	-2°10'38		14664 Jul 01 16:47	0 $^{\circ}$ Ω	
minimum elong	14663 Jul 10 11:05	0° Ω 43'23	2°11'27	evening rise	14664 Jul 04 08:29	4° Ω 12'48	
	14663 Jul 10 00:12	$0^{\circ}\Omega$		greatest brilliancy	14664 Jul 11 20:51	16° Ω 08'19	-0.9m
evening rise	14663 Jul 24 11:21	23° Ω 34'14		asc. node	14664 Jul 18 11:59	26° Ω 15′26	
	14663 Jul 28 08:08	0° m p			14664 Jul 21 04:23	0° m	
asc. node	14663 Aug 01 15:15	7° m 03'09		evening max el	14664 Jul 25 11:58	5° Mp 05'11	18°39'18
evening max el	14663 Aug 11 23:17	21° m 22'38	18°11'50	retrograde	14664 Aug 01 01:18	8° m 38'21	
retrograde	14663 Aug 18 07:52	24° Mp 44'06		evening set	14664 Aug 04 07:04	7° m 38'31	
evening set	14663 Aug 21 04:40	23° m 59'59		inferior conj	14664 Aug 09 22:33	2° m/00'02	2°38'25
inferior conj	14663 Aug 27 05:37	18° Mp 36'28	2°00'16	minimum elong	14664 Aug 10 00:38	1° m 53'34	2°37'25
minimum elong	14663 Aug 27 08:01	18° m) 29'40	1°59'17	C	14664 Aug 11 13:30	30°R Ω	
min. Earth dist.	14663 Aug 29 17:55	15° Mp 47'24	0.63832 AU	min. Earth dist.	14664 Aug 11 21:00	29° Ω 37'16	0.65741 AU
morning rise	14663 Sep 02 09:37	12° m) 19'12		morning rise	14664 Aug 15 17:10	25° Ω 35'37	
desc. node	14663 Sep 03 10:05	11° m)35'14		desc. node	14664 Aug 20 07:35	23° Ω 08'11	
direct	14663 Sep 09 00:21	9° mp 46'04		direct	14664 Aug 22 01:59	22° Ω 56'34	
morning max el	14663 Sep 22 20:36	17° m) 46'07	27°40'08		14664 Sep 03 13:12	0° m)	
	14663 Oct 03 02:46	0∘ <u>⊽</u>		morning max el	14664 Sep 04 07:52	0° m) 46'20	26°49'51
	14663 Oct 21 21:48	0° M .			14664 Sep 26 03:26	0∘ ಹ	
morning set	14663 Oct 27 18:57	11°ML15'48		morning set	14664 Oct 10 01:34	ა — 24° ჲ 21'11	
asc. node	14663 Oct 28 17:15	13°ML07'38		morning sec	14664 Oct 12 23:17	0°M	
max. Earth dist.	14663 Nov 01 14:29	21°ML09'23	1.32447 AU	max. Earth dist.	14664 Oct 14 04:22	2°M24'54	1.33929 AU
man. Barur dige.	1.0031.01 01 11.25	21 110/03/23	1.52 , 110	asc. node	14664 Oct 14 13:55	3°M12'55	1.55,2,110
superior conj	14663 Nov 04 16:59	27°ML47'58	1°01'36	use. Houe	14004 001 14 15.55	3 1101233	
minimum elong	14663 Nov 04 14:40	27°M35'30		superior conj	14664 Oct 18 17:52	11° M 47'04	0°38'05
minimum ciong	14663 Nov 05 17:18	0° ⊼ ¹	1 02 02	minimum elong	14664 Oct 18 16:01	11°M37'22	0°38'20
evening rise	14663 Nov 11 14:33	12° ∡ 748'17		evening rise	14664 Oct 26 00:37	27°ML13'47	0 30 20
evening rise	14663 Nov 20 04:12	12 x 46 17 0°る		evening rise	14664 Oct 27 08:18	27 11013 47 0° ⊼ 1	
desc. node	14663 Nov 30 06:51	15° る 32'04			14664 Nov 14 19:19	%ਰ	
evening max el	14663 Dec 04 12:26	20°පි12'14	23°10'54	evening max el	14664 Nov 15 02:08	0°る17'00	21°31'22
retrograde	14663 Dec 17 18:24	26°る46'49	23 10 34	desc. node	14664 Nov 16 04:02	1°る18'00	21 31 22
evening set	14663 Dec 22 00:37	26°る07'24		retrograde	14664 Nov 27 06:05	6°පි18'35	
min. Earth dist.	14663 Dec 28 22:17	20° ろ 54'03	0.54972 AU	evening set	14664 Nov 30 04:20	5°る59'02	
inferior conj	14663 Dec 30 06:56	22°る07'02		inferior conj	14664 Dec 08 22:58	2°る07'01	-5°45'10
minimum elong	14663 Dec 30 09:43	22°る03'01		minimum elong	14664 Dec 08 16:42	2°る15'49	
morning rise	14664 Jan 07 20:20	18°る16'40	3 33 30	min. Earth dist.	14664 Dec 09 04:10	1°る59'43	0.54448 AU
direct	14664 Jan 10 17:01	18 3 1040		iiiii. Lattii dist.	14664 Dec 12 21:23	1 ℃3943 30°R. ℤ	0.54446 AU
morning max el	14664 Jan 21 22:37	23°る20'39	20042127	morning rise	14664 Dec 17 05:41	28° √ 18'18	
asc. node	14664 Jan 24 16:35	25° る 17'20	20 43 27	direct	14664 Dec 21 01:07	27° x 1616	
asc. node	14664 Jan 27 13:24	20°≈		direct	14664 Dec 28 15:33	27 メ ・4040	
morning set	14664 Feb 09 23:18	0 ≈ 24°≈12'29		morning max el	14665 Jan 02 17:05	3° る 53'25	22°21'53
morning set		24 ≈ 12 29 0° H		asc. node		13° る 26'14	22 21 33
	14664 Feb 12 18:10	0 X		asc. node	14665 Jan 10 13:51		
gunorios cos:	14664 Eab 17 10:10	9°) 40′03	1°08'49	morning set	14665 Jan 20 01:40	0° ≈ 8° ≈ 57'43	
superior conj	14664 Feb 17 10:18	9° X 40'03		morning set	14665 Jan 24 10:08	o ×3/43	
minimum elong	14664 Feb 17 12:55		1°08'55	gunariar aari	14665 Ion 21 10.50	24% 200102	102/156
max. Earth dist.	14664 Feb 22 15:20	20° ₩ 02'35	1.35897 AU	superior conj	14665 Jan 31 10:59	24°≈00'02	1°24'56
desc. node	14664 Feb 26 07:37	27° ₩ 00′29		minimum elong	14665 Jan 31 13:03	24°≈11'01	1°25'24
evening rise	14664 Feb 26 12:37	27° ¥ 23'37		F d v .	14665 Feb 03 07:38	0°) (1 24017 433
	14664 Feb 27 22:49	0° Ƴ		max. Earth dist.	14665 Feb 04 05:33	1° ¥ 52'48	1.34017 AU
	14664 Mar 17 13:35	0°8	24000127	evening rise	14665 Feb 08 15:46	10°) (42'34	
evening max el	14664 Apr 01 22:51	18° 8 51'18	26~09°27	desc. node	14665 Feb 12 04:10	17°) €21'39	
retrograde	14664 Apr 14 17:35	26° 8 09'57			14665 Feb 19 09:24	0° Ƴ	

·	•		Č	, ,,			
	14665 Mar 13 01:04	0°8			14666 Jan 26 01:12	0° \	
evening max el	14665 Mar 15 12:36	2° 8 31'43	27°02'28	desc. node	14666 Jan 30 00:46	7° ¥ 29'08	
retrograde	14665 Mar 28 22:09	10° 8 00'28	2, 0220	dese. node	14666 Feb 12 22:29	0°Υ	
evening set	14665 Apr 04 11:36	7° 8 28'40		evening max el	14666 Feb 26 01:20	15°Υ50'06	27°31'28
asc. node	14665 Apr 08 10:32	3° 8 38'41		retrograde	14666 Mar 11 19:45	23° Υ 18'37	27 31 20
min. Earth dist.	•	3° 8 40'01	0.65625 AU	•	14666 Mar 18 15:07	20° Υ 52'55	
	14665 Apr 08 10:04	1° 8 07'21		evening set		20 γ 32 33 17° γ 34'17	0.63776 AU
inferior conj	14665 Apr 10 15:32	1° 8 10'27	0°41'18	min. Earth dist.	14666 Mar 22 10:14	$1/^{\circ}$ Y 34 1 7 14° Y 47'10	
minimum elong	14665 Apr 10 14:28	_	0°40'28	inferior conj	14666 Mar 25 03:05		
	14665 Apr 11 15:20	30° ₹ Υ		minimum elong	14666 Mar 25 03:48	14° Y 45'17	0°23'03
morning rise	14665 Apr 16 18:51	25° Y 34'26		asc. node	14666 Mar 26 07:58	13° Y 33'33	
direct	14665 Apr 19 14:26	24°Υ51'32		morning rise	14666 Mar 31 18:49	9° Y 28'52	
morning max el	14665 Apr 25 22:26	28° Y 09′52	18°03'44	direct	14666 Apr 03 05:57	8° Y 58'45	
	14665 Apr 27 15:52	0° 8		morning max el	14666 Apr 09 15:53	12° Y 15′56	17°47'38
desc. node	14665 May 11 06:19	20° 8 10'17			14666 Apr 21 22:56	0°8	
morning set	14665 May 14 10:30	25° 8 19'41		morning set	14666 Apr 26 07:34	7° 8 23'39	
	14665 May 17 07:37	Π $^{\circ}$ 0		desc. node	14666 Apr 28 03:00	10° 8 28'11	
superior conj	14665 May 29 04:14	18° Ⅱ 55'24		superior conj	14666 May 09 05:42	28° 8 57'01	
minimum elong	14665 May 28 19:37	18° Ⅱ 21'27		minimum elong	14666 May 08 21:58	28° 8 25'35	1°20'04
max. Earth dist.	14665 May 31 22:44	23° Ⅱ 16′02	1.45789 AU		14666 May 09 21:15	Π °0	
	14665 Jun 05 06:25	0		max. Earth dist.	14666 May 14 17:55	7° Ⅱ 46'48	1.44996 AU
evening rise	14665 Jun 14 06:53	13° © 57'18		evening rise	14666 May 24 17:58	23° Ⅱ 20'33	
	14665 Jun 24 18:30	0 $^{\circ}$ Ω			14666 May 29 03:00	0ංම	
greatest brilliancy	14665 Jun 27 00:45	3° Ω 22'54	-0.7m		14666 Jun 19 10:02	$0^{\circ}\Omega$	
asc. node	14665 Jul 05 08:47	14° Ω 58′22		evening max el	14666 Jun 21 23:06	2° Ω 45'35	20°22'58
evening max el	14665 Jul 08 20:24	18° Ω 54'22	19°23'34	asc. node	14666 Jun 22 05:40	3° Ω 01'51	
retrograde	14665 Jul 15 22:39	22° Ω 51'36		retrograde	14666 Jun 29 21:31	7° Ω 18′04	
evening set	14665 Jul 19 13:58	21° Ω 34'45		evening set	14666 Jul 03 23:03	5° Ω 43'46	
inferior conj	14665 Jul 24 23:21	15° Ω 42'46	3°00'54		14666 Jul 08 23:20	30° ℝ ∽	
minimum elong	14665 Jul 25 00:39	15° Ω 38'31	2°59'57	inferior conj	14666 Jul 09 05:21	29°539'26	3°10'10
min. Earth dist.	14665 Jul 26 07:30	13° Ω 57'11	0.67260 AU	minimum elong	14666 Jul 09 05:39	29° © 38'24	3°09'12
morning rise	14665 Jul 30 10:45	9° Ω 17'28		min. Earth dist.	14666 Jul 09 23:29	28° © 37'20	0.68323 AU
direct	14665 Aug 05 10:18	6° Ω 41'39		morning rise	14666 Jul 14 11:56	23° © 17'19	
desc. node	14665 Aug 07 05:02	6°Ω53'43		direct	14666 Jul 20 00:03	20°952'22	
morning max el	14665 Aug 17 18:49	14° Ω 05'11	25°36'57	desc. node	14666 Jul 25 02:24	22° © 31'15	
morning man vi	14665 Aug 30 18:10	0° m)	20 300,	morning max el	14666 Jul 31 05:16	27°935'04	24°11'08
	14665 Sep 18 22:17	0∘ ⊽		morning man er	14666 Aug 02 11:51	0° Ω	2.1100
morning set	14665 Sep 22 17:46	° - 46'43			14666 Aug 24 09:35	0° m)	
max. Earth dist.	14665 Sep 26 08:34		1.35895 AU	morning set	14666 Sep 04 15:19	-•	
asc. node	14665 Oct 01 10:31	23° ⊆ 21'22	1.55675 AO	max. Earth dist.	14666 Sep 08 07:22	24° m) 48'21	1.38188 AU
asc. node	14003 Oct 01 10.31	23 == 21 22		max. Earm dist.	14666 Sep 11 04:14	0° ⊽	1.36166 AU
superior conj	14665 Oct 02 10:17	25° ≏ 20'13	0°09'10		14000 Бер 11 04.14	v –	
minimum elong	14665 Oct 02 09:44	25° £ 17'25	0°09'23	superior conj	14666 Sep 15 14:49	8° £ 19'14	-0°24'14
behind sun begin	14665 Oct 02 04:37	24° £ 51'46	0 0) 23	minimum elong	14666 Sep 15 16:30	8° £ 27'14	
behind sun end	14665 Oct 02 14:51	25° £ 43'06		asc. node	14666 Sep 18 07:05	13° ≏ 29'25	0 23 33
bennia sun ena	14665 Oct 04 17:32	0°ML		evening rise	14666 Sep 24 09:08	25° £ 29'52	
evening rise	14665 Oct 10 07:38	11° M L29'41		evening rise	14666 Sep 26 16:05	25 = 29 52 0° M	
evening rise	14665 Oct 20 00:43	0° √		evening max el	14666 Oct 10 20:37	22°M28'55	19°05'10
evening max el	14665 Oct 28 04:15	10° ∡ 758'14	20°07'31	retrograde	14666 Oct 19 19:52	26°M59'17	19 03 10
•			20 0/31	•			
desc. node	14665 Nov 03 01:18	15° 🖈 12'47		desc. node	14666 Oct 20 22:40	26°M55'21	
retrograde	14665 Nov 07 18:10	16° ₹ 14'17		evening set	14666 Oct 21 16:45	26°M48'20	2052142
evening set	14665 Nov 09 20:21	16° ₹ 02'54	100 (10 (inferior conj	14666 Oct 30 02:56	22°M34'15	
inferior conj	14665 Nov 18 17:14	12° ₹ 05'28		minimum elong	14666 Oct 29 19:39	22°M46'42	
minimum elong	14665 Nov 18 07:08	12° ∡ 20′33	4°32'19	min. Earth dist.	14666 Nov 01 22:08	20°M39'40	0.56164 AU
min. Earth dist.	14665 Nov 20 11:08	11° ∡ 02'48	0.54875 AU	morning rise	14666 Nov 06 19:53	17° M 54'49	
morning rise	14665 Nov 26 16:58	7° ∡ 759'16		direct	14666 Nov 12 10:51	16°M41'19	
direct	14665 Dec 01 12:10	7° ∡ ¹09'13		morning max el	14666 Nov 26 13:25	23°M53'01	25°53'48
morning max el	14665 Dec 15 02:52	13° ∡ 52'09	24°11'10		14666 Dec 02 02:58	0° ∡ ¹	
	14665 Dec 27 13:16	0°₹		asc. node	14666 Dec 15 08:07	20° ∡ 14'57	
asc. node	14665 Dec 28 11:02	1° る 29'58			14666 Dec 20 09:42	0°ಕ	
morning set	14666 Jan 08 22:04	23° る 41'49		morning set	14666 Dec 24 09:22	8° ට 20'14	
	14666 Jan 11 19:46	0° ≈					
				superior conj	14666 Dec 31 03:25	23° る 13'29	
superior conj	14666 Jan 15 17:26	8° ≈ 33'18	1°34'33	minimum elong	14666 Dec 31 03:29	23° る 13'50	1°38'57
minimum elong	14666 Jan 15 18:34	8° ≈ 39'30	1°35'21	max. Earth dist.	14667 Jan 01 08:10	25° る 52'54	1.31595 AU
max. Earth dist.	14666 Jan 18 03:38	13° ≈ 48'30	1.32563 AU		14667 Jan 03 05:06	0° ≈	
evening rise	14666 Jan 23 06:12	24° ≈ 28′13		evening rise	14667 Jan 07 05:04	8° ≈ 33'32	

	14667 1 16 21 20	270 17102			14667.70 22 00 54	220752110	
desc. node	14667 Jan 16 21:28	27°≈17'03		evening rise	14667 Dec 22 09:54	22°る52'10	
	14667 Jan 18 10:47	0° ∀			14667 Dec 25 20:03	0° ≈	
evening max el	14667 Feb 08 10:48	28° ∺ 33'05	27°29'57	desc. node	14668 Jan 03 18:16	16° ≈ 37'24	
	14667 Feb 10 00:51	$0^{\circ}\mathbf{Y}$			14668 Jan 12 13:00	0° ∀	
retrograde	14667 Feb 22 09:23	5° Ƴ 55'11		evening max el	14668 Jan 21 14:15	10°) €28'55	26°54'00
evening set	14667 Mar 01 06:02	3° Ƴ 42'51		retrograde	14668 Feb 04 13:58	17°) (41′45	
min. Earth dist.	14667 Mar 05 00:30	0° Ƴ 48'38	0.61670 AU	evening set	14668 Feb 11 05:05	15° ¥ 50′15	
	14667 Mar 05 22:15	30° ₹		min. Earth dist.	14668 Feb 15 04:17	13° ¥ 10′56	0.59452 AU
inferior conj	14667 Mar 08 02:10	28°) €00'35	-1°39'44	inferior conj	14668 Feb 18 09:10	10°) 37′59	-3°05'07
minimum elong	14667 Mar 08 05:41	27° ¥ 52'31	1°38'10	minimum elong	14668 Feb 18 16:01	10° ¥ 24'18	3°02'09
asc. node	14667 Mar 13 05:25	23° ¥ 57'24		morning rise	14668 Feb 26 06:17	5° ¥ 58'05	
morning rise	14667 Mar 15 08:22	23°) €00'04		direct	14668 Feb 28 06:38	5°) 43′00	
direct	14667 Mar 17 12:47	22°) 39'12		asc. node	14668 Feb 28 02:52	5°) 43′05	
morning max el	14667 Mar 24 08:56	26°) (06'11	17°49'25	morning max el	14668 Mar 06 22:05	9°) 30'43	18°10'14
morning max er	14667 Mar 27 17:13	0° Υ	17 47 23	morning max er	14668 Mar 20 06:03	0° Υ	10 10 14
morning set	14667 Apr 09 02:24	20° Υ 28'40		morning set	14668 Mar 22 13:05	4° Υ 16'51	
morning set	•	0°8		desc. node	14668 Mar 31 20:11	21°Υ28'47	
1 1	14667 Apr 14 10:56	0° 8 55'40		desc. node	14008 Mai 31 20.11	21 1264/	
desc. node	14667 Apr 14 23:36	0°055'40			14660 4 01 06 25	220001 4145	0002120
	14667 4 20 06 20	100100101	0041101	superior conj	14668 Apr 01 06:25	22° Y 14'45	
superior conj	14667 Apr 20 06:30	10° 8 04'04		minimum elong	14668 Apr 01 06:07	22° Y 13′25	0°03'43
minimum elong	14667 Apr 20 02:38	9° 8 47'38	0°41'19	behind sun begin	14668 Mar 31 22:41	21° Y '40'04	
max. Earth dist.	14667 Apr 27 10:00	21° 8 56'06	1.43550 AU	behind sun end	14668 Apr 01 13:33	22° Y 46'41	
	14667 May 02 11:04	Π $^{\circ}0$			14668 Apr 05 16:03	$_{0\circ}$ 8	
evening rise	14667 May 04 10:07	3° Ⅱ 04'15		max. Earth dist.	14668 Apr 08 21:14	5° 8 29'10	1.41605 AU
	14667 May 22 13:29	0 \circ \odot		evening rise	14668 Apr 13 19:23	13° 8 36'30	
evening max el	14667 Jun 04 19:54	16°536'40	21°34'30		14668 Apr 24 08:22	$\Pi^{\circ}0$	
asc. node	14667 Jun 09 02:39	20°©12'45			14668 May 17 00:50	0°ಅ	
retrograde	14667 Jun 13 20:02	21° © 52'00		evening max el	14668 May 17 12:13	0°\$28'46	22°53'45
evening set	14667 Jun 18 08:24	20°500'53		asc. node	14668 May 25 23:45	6°9515'32	
inferior conj	14667 Jun 23 14:14	13°9345'41	3°07'53	retrograde	14668 May 27 16:45	6°\$28'32	
minimum elong	14667 Jun 23 13:34	13° © 47'59	3°06'49	evening set	14668 Jun 01 16:25	4°9522'18	
min. Earth dist.	14667 Jun 23 18:54	13° S 29'20	0.68909 AU	evening set	14668 Jun 05 12:41	30°RⅡ	
		7° 5 29'04	0.08909 AU	i. Fauth diet		30 қ <u>п</u> 28° П 27'08	0.69013 AU
morning rise	14667 Jun 28 18:32			min. Earth dist.	14668 Jun 06 15:46		
direct	14667 Jul 03 18:11	5°520'22		inferior conj	14668 Jun 07 00:02	27° ∏ 58′24	2°55'00
desc. node	14667 Jul 11 23:42	9° © 34'41		minimum elong	14668 Jun 06 22:34	28° ∏ 03'31	2°53'46
morning max el	14667 Jul 13 16:54	11° © 13'04	22°41'41	morning rise	14668 Jun 12 04:38	21° ∏ 48'49	
	14667 Jul 28 14:53	$0 ^{\circ} \Omega$		direct	14668 Jun 16 15:43	19° ∏ 59'19	
morning set	14667 Aug 16 13:55	28° Ω 57'35		morning max el	14668 Jun 25 08:33	25° Ⅱ 00'55	21°16'57
	14667 Aug 17 05:09	0° m ⁄		desc. node	14668 Jun 27 20:53	27° ∏ 42′18	
max. Earth dist.	14667 Aug 21 06:59	6° Mp 48′34	1.40559 AU		14668 Jun 29 19:39	0 \circ \odot	
					14668 Jul 21 00:18	$0^{\circ}\Omega$	
superior conj	14667 Aug 29 03:14	20° m 33'18	-1°00'00	morning set	14668 Jul 26 12:16	8° Ω 30'47	
minimum elong	14667 Aug 29 07:51	20° m 54'11		max. Earth dist.	14668 Aug 02 11:44	19° Ω 40'48	1.42733 AU
minimum viong	14667 Sep 03 06:20	0∘ ʊ	0 0,52	man. Darm dige.	14668 Aug 08 16:33	0° m)	12/55110
asc. node	14667 Sep 05 03:37	3° ₽ 32'49			1 1000 11ug 00 10.55	V 192	
evening rise	14667 Sep 08 01:53	9° £ 05'11		aumorior comi	14669 Aug 00 10:16	1° m 53'49	1924!20
evening rise	-			superior conj	14668 Aug 09 19:16	~	
	14667 Sep 20 02:27	0°M	10024145	minimum elong	14668 Aug 10 02:25	2° Mp 24'22	1 34 05
evening max el	14667 Sep 24 00:23	4°M44'39	18°24'45	evening rise	14668 Aug 21 05:55	22° m 05'52	
retrograde	14667 Oct 01 16:46	8°M38'31		asc. node	14668 Aug 22 00:12	23° Tp 28'16	
evening set	14667 Oct 03 17:08	8°M23'09			14668 Aug 25 15:43	0∘ ⊽	
desc. node	14667 Oct 07 20:07	6°M27′52		evening max el	14668 Sep 06 11:27	17° ≏ 36'53	18°04'51
inferior conj	14667 Oct 11 10:02	3°M48'17	-1°08'30	retrograde	14668 Sep 13 07:23	21° ≏ 07'06	
minimum elong	14667 Oct 11 07:23	3°M53'35	1°06'58	evening set	14668 Sep 15 14:54	20° ≙ 43'11	
min. Earth dist.	14667 Oct 14 16:03	1°M12'54	0.58078 AU	inferior conj	14668 Sep 22 14:05	15° ≏ 48'01	0°21'16
	14667 Oct 16 08:05	30° Ŗ坕		minimum elong	14668 Sep 22 14:46	15° ≏ 46′25	0°21'11
morning rise	14667 Oct 18 18:09	28° ₽ 31'18		desc. node	14668 Sep 23 17:36	14° ≏ 43'38	
direct	14667 Oct 24 23:38	26° ♀ 50'56		min. Earth dist.	14668 Sep 25 18:50	12° ≏ 50'46	0.60321 AU
	14667 Nov 02 21:54	0°M		morning rise	14668 Sep 29 11:28	9° £ 59'48	
morning max el	14667 Nov 08 06:56		27°11'35	direct	14668 Oct 06 01:34	7° ⊆ 53'32	
morning max ci	14667 Nov 26 23:55	4 11€20 10 0° √ 7	21 11 33	morning max el	14668 Oct 20 08:15	7 = 33 32 15° Ω 45'50	27°52'58
asa nodo				morning max ei			21 3238
asc. node	14667 Dec 02 05:05	9° 🖈 29'53		•	14668 Oct 31 23:59	0°M	
morning set	14667 Dec 08 18:15	22° ∡ ¹47'50		asc. node	14668 Nov 18 01:59	29°M06'32	
	14667 Dec 12 01:43	0°る			14668 Nov 18 12:45	0° ∡	
				morning set	14668 Nov 21 22:51	6° ₹ 759'49	
superior conj	14667 Dec 15 14:54	7° る 54'29	1°35'23	max. Earth dist.	14668 Nov 27 23:22	20° х °02′47	1.31208 AU
minimum elong	14667 Dec 15 13:56	7° る 49'05	1°36'22				
max. Earth dist.	14667 Dec 15 15:59	8° ප 00'36	1.31135 AU	superior conj	14668 Nov 29 02:01	22° х 31′02	1°26'54
				-			

minimum elong	14668 Nov 29 00:13	22° × ⁷ 21'03	1°27'44	minimum elong	14669 Nov 13 08:37	6° √ 45'22	1°13'08
, and the second	14668 Dec 02 10:35	ರ°0		evening rise	14669 Nov 20 05:21	21° ₹ '49'20	
evening rise	14668 Dec 05 18:37	7° る 18'58		C	14669 Nov 24 02:36	8°0	
	14668 Dec 17 09:18	0° ≈		desc. node	14669 Dec 07 12:10	23° る 09'16	
desc. node	14668 Dec 20 15:10	5° ≈ 19'32			14669 Dec 13 02:05	0° ≈	
evening max el	14669 Jan 02 09:39	21° ≈ 32'04	25°44'35	evening max el	14669 Dec 14 21:38	1° ≈ 50'15	24°10'20
retrograde	14669 Jan 16 07:42	28° ≈ 33'34		retrograde	14669 Dec 28 12:20	8° ≈ 36'24	
evening set	14669 Jan 22 08:20	27° ≈ 09′23		evening set	14670 Jan 02 12:27	7° ≈ 41'46	
min. Earth dist.	14669 Jan 26 22:29	24° ≈ 30'51	0.57352 AU	min. Earth dist.	14670 Jan 08 09:12	4° ≈ 46'43	0.55652 AU
inferior conj	14669 Jan 29 20:40	22° ≈ 29'41	-4°30'12	inferior conj	14670 Jan 10 11:18	3° ≈ 30'39	-5°36'40
minimum elong	14669 Jan 30 05:44	22° ≈ 14′00	4°26'55	minimum elong	14670 Jan 10 18:12	3° ≈ 20′09	5°34'44
morning rise	14669 Feb 07 06:01	18° ≈ 11'30			14670 Jan 17 08:38	30°₹⋜	
direct	14669 Feb 09 07:17	17° ≈ 58′28		morning rise	14670 Jan 19 01:48	29° る 31'54	
asc. node	14669 Feb 14 00:20	19° ≈ 11'36		direct	14670 Jan 21 12:36	29° る 16'21	
morning max el	14669 Feb 18 03:15	22°≈17'34	18°51'44		14670 Jan 25 12:03	0° ≈	
	14669 Feb 24 04:37	0°) {		asc. node	14670 Jan 31 21:44	4°≈18'49	
morning set	14669 Mar 06 10:40	18°) €33'06		morning max el	14670 Jan 31 20:16		19°55'55
	14669 Mar 12 07:14	0° Ƴ			14670 Feb 17 02:28	0°) {	
	14660 M 15 01 10	50 00 1 (110	0020141	morning set	14670 Feb 18 15:32	3°) €07'05	
superior conj	14669 Mar 15 01:19	5° Υ 16'18 5° Υ 25'02	0°29'41		14670 F 1 26 10 40	100 15045	0056120
minimum elong	14669 Mar 15 03:10	12° Υ 03'11	0°29'23	superior conj	14670 Feb 26 10:48	18° ¥ 56'45	0°56'28 0°56'21
desc. node	14669 Mar 18 16:43	12°° \bar{\gamma} 18° \bar{\gamma} 18'18	1.39383 AU	minimum elong	14670 Feb 26 13:25 14670 Mar 04 03:50	19°) 09'50 0° Υ	0°56'21
max. Earth dist. evening rise	14669 Mar 22 04:08 14669 Mar 26 01:48	25° Υ 03'59	1.39363 AU	max. Earth dist.	14670 Mar 04 10:42	0° Υ 32'13	1.37129 AU
evening rise	14669 Mar 29 00:33	0° 8		desc. node	14670 Mar 05 13:15	2° Υ 35'36	1.3/129 AU
	14669 Apr 18 01:15	0°II		evening rise	14670 Mar 08 04:14	7° Υ 22'06	
evening max el	14669 Apr 30 02:12	14° Ⅱ 22'17	24°14'55	evening rise	14670 Mar 21 20:36	0°8	
retrograde	14669 May 11 10:14	21° I I00'52	24 14 33	evening max el	14670 Apr 12 15:50	28° 8 16'03	25°30'56
asc. node	14669 May 12 20:58	20° I 51'43		evening max er	14670 Apr 14 12:06	0°II	23 30 30
evening set	14669 May 16 21:27	18° Ⅱ 42'07		retrograde	14670 Apr 24 23:19	5° Ⅱ 22'45	
min. Earth dist.	14669 May 21 11:53	13° Ⅲ 23'35	0.68640 AU	asc. node	14670 Apr 29 18:16	3° П 47'35	
inferior conj	14669 May 22 08:52	12° Ⅱ 12'42	2°31'47	evening set	14670 Apr 30 21:51	2° I 55'00	
minimum elong	14669 May 22 06:51	12° Ⅱ 19'32	2°30'24	C	14670 May 03 18:10	30°R ႘	
morning rise	14669 May 27 16:20	6° Ⅱ 11'27		min. Earth dist.	14670 May 05 05:03	28° 8 12'41	0.67810 AU
direct	14669 May 31 15:18	4° Ⅱ 42'10		inferior conj	14670 May 06 14:43	26° 8 24'23	1°57'56
morning max el	14669 Jun 08 06:39	8° Ⅱ 59'07	20°03'03	minimum elong	14670 May 06 12:34	26° 8 31'18	1°56'31
desc. node	14669 Jun 14 17:58	16° Ⅲ 36′17		morning rise	14670 May 12 03:45	20° 8 32'49	
	14669 Jun 24 05:23	0 \circ \mathfrak{s}		direct	14670 May 15 15:22	19° 8 23'09	
morning set	14669 Jul 05 17:08	17° 5 20'50		morning max el	14670 May 22 12:10	23° 8 06'55	19°03'44
	14669 Jul 13 20:13	$0^{\circ}\Omega$			14670 May 28 07:30	Π °0	
max. Earth dist.	14669 Jul 15 23:00	3° Ω 21′04	1.44459 AU	desc. node	14670 Jun 01 14:56	6° Ⅱ 04'07	
				greatest brilliancy	14670 Jun 04 14:03	10° Ⅱ 27'30	-0.7m
superior conj	14669 Jul 21 11:52	12° Ω 15'14		morning set	14670 Jun 14 22:53	26° Ⅱ 19'00	
minimum elong	14669 Jul 21 18:37	12° Ω 42'43	2°01'43		14670 Jun 17 08:03	0 \circ	
	14669 Aug 01 03:27	0° m)		max. Earth dist.	14670 Jun 28 16:03	17° © 37'50	1.45556 AU
evening rise	14669 Aug 03 16:10	4° m) 19'10					
asc. node	14669 Aug 08 20:50	13° Tp 11'18		superior conj	14670 Jul 01 06:54	21°5544'39	
	14669 Aug 20 04:24	0° ∵	1000405	minimum elong	14670 Jul 01 08:04	21°549'15	2~14'38
evening max el	14669 Aug 21 01:50	0° £ 55'44	18°04'05		14670 Jul 06 12:02	0°N	
retrograde	14669 Aug 27 11:40	4° £ 16'11 3° £ 40'11		evening rise	14670 Jul 16 03:37 14670 Jul 25 01:34	15° Ω 33'34 0° m	
evening set	14669 Aug 30 03:33			aga mada	14670 Jul 26 17:30		
inferior conj	14669 Sep 03 23:23 14669 Sep 05 11:36	30°R, Mp 28° Mp 26'32	1°30'00	asc. node evening max el	14670 Aug 04 16:01	2°My36'29 14°My32'01	18°21'26
minimum elong	14669 Sep 05 13:48	28° m) 20'44	1°29'10	retrograde	14670 Aug 11 01:22	17° My 56'28	18 21 20
min. Earth dist.	14669 Sep 08 07:13	25° m) 28'55	0.62603 AU	evening set	14670 Aug 11 01:22 14670 Aug 14 02:02	17° mg 05'43	
desc. node	14669 Sep 10 15:06	23° m 17'51	0.02003 AO	inferior conj	14670 Aug 14 02:02	11° m ₂ 35'39	2°18'33
morning rise	14669 Sep 11 21:45	22° m ₀ 17'19		minimum elong	14670 Aug 20 00:53	11° m) 28'42	2°17'32
direct	14669 Sep 18 14:05	19° m ₀ 51'19		min. Earth dist.	14670 Aug 20 00:33	8° m 56'19	0.64693 AU
morning max el	14669 Oct 02 15:22	27° m ₂ 51'19	27°55'14	morning rise	14670 Aug 25 22:19	5° Mp 14'44	
	14669 Oct 04 16:45	0∘ ত	- -	desc. node	14670 Aug 28 12:36	3° m ₂ 33'55	
	14669 Oct 25 18:43	0°M		direct	14670 Sep 01 11:09	2° m/37'59	
asc. node	14669 Nov 04 22:48	18° ™ 58'27		morning max el	14670 Sep 15 01:46	10° m/34'34	27°22'05
morning set	14669 Nov 05 21:03	20°M50'58		Č	14670 Sep 30 10:13	0∘ <u>⊽</u>	
ū	14669 Nov 10 05:58	0° ∡ 7			14670 Oct 18 05:28	0° M	
max. Earth dist.	14669 Nov 11 02:35	1° ∡ 750'57	1.31831 AU	morning set	14670 Oct 20 10:09	4° ™ 14'29	
				asc. node	14670 Oct 22 19:30	8°M59'50	
superior conj	14669 Nov 13 10:53	6° ∡ ¹57'47	1°12'33	max. Earth dist.	14670 Oct 24 22:08	13°M18'42	1.33015 AU

superior conj minimum elong	14670 Oct 28 15:20 14670 Oct 28 13:08 14670 Nov 01 17:58	21°M08'22 20°M56'36 0°×7	0°52'20 0°52'40	superior conj minimum elong evening rise	14671 Oct 12 12:58 14671 Oct 12 11:33 14671 Oct 20 01:13	4°M57'06 4°M49'49 20°M40'03	0°26'26 0°26'40
evening rise	14670 Nov 04 16:10 14670 Nov 17 03:15	6° メ 17'48 0° る		evening max el	14671 Oct 24 15:13 14671 Nov 08 01:54	0° √ 22° √ 04'07	20°53'08
desc. node	14670 Nov 24 09:16	9° ට 46'45		desc. node	14671 Nov 11 06:27	24° ∡ °48′13	
evening max el	14670 Nov 26 07:48	11° る 48'00	22°27'22	retrograde	14671 Nov 19 14:27	27° ∡ ¹47'39	
retrograde	14670 Dec 09 04:05	18° る 09'50		evening set	14671 Nov 22 02:20	27° х ³32′43	
evening set	14670 Dec 12 20:23	17° る 40'10		inferior conj	14671 Nov 30 23:32	23° ₹ ³39'32	
min. Earth dist.	14670 Dec 20 15:21	14° る 09'35	0.54639 AU	minimum elong	14671 Nov 30 14:39		5°19'14
inferior conj	14670 Dec 21 08:31	13° る 45'27		min. Earth dist.	14671 Dec 01 20:59	23° ∡ ¹08'55	0.54517 AU
minimum elong	14670 Dec 21 07:22	13°る47'04	5°58'25	morning rise	14671 Dec 09 03:11	19° ⋌ ¹46'04	
morning rise	14670 Dec 29 19:31	9° る 58'06		direct	14671 Dec 13 08:53	19° ∡ 07'34	
direct	14671 Jan 02 01:35	9° る 34'11	21022110	morning max el	14671 Dec 26 12:08	25° ₹ '30'01	23°08'06
morning max el	14671 Jan 13 22:26	15° る 16'04	21°23'10		14671 Dec 30 16:09	0°る	
asc. node	14671 Jan 18 19:04	20°る47'46 0°≈		asc. node	14672 Jan 05 16:18	8°る21'10 0°≈	
mamina aat	14671 Jan 24 20:05 14671 Feb 03 00:49	0°≈ 17°≈49'42		morning set	14672 Jan 17 07:06 14672 Jan 18 12:18	0°≈ 2°≈34'36	
morning set	14671 Feb 03 00.49 14671 Feb 08 19:30	0°) (morning set			1020145
	14671 F 1 10 06 50	201/04/22	1017127	superior conj	14672 Jan 25 10:15	17°≈30'19	1°29'47
superior conj	14671 Feb 10 06:50	3° ¥ 04′22		minimum elong	14672 Jan 25 11:57	17°≈39'28	1°30'25
minimum elong	14671 Feb 10 09:17	. ,	1°16'43	max. Earth dist.	14672 Jan 28 14:53	24°≈17'09	1.33338 AU
max. Earth dist.	14671 Feb 14 21:20	12° ∺ 26'20 20° ∺ 20'40	1.35055 AU	avanina risa	14672 Jan 31 09:26	0° ∺ 3° ∺ 50'57	
evening rise desc. node	14671 Feb 18 23:19 14671 Feb 20 09:47	20° ★ 20′40 23° ¥ 01′41		evening rise desc. node	14672 Feb 02 07:35 14672 Feb 07 06:22	13° ¥ 17'07	
desc. Hode	14671 Feb 24 06:34	23 χ 0141 0° Υ		desc. node	14672 Feb 17 01:44	13 χ 1707	
	14671 Mar 15 19:42	0°8		evening max el	14672 Mar 07 18:56	25° Υ 35'03	27°18'07
evening max el	14671 Mar 26 05:37	12° 8 03'38	26°34'28	evening max er	14672 Mar 13 02:11	0° 8	27 1007
retrograde	14671 Apr 08 07:04	19° 8 27'05	20 34 20	retrograde	14672 Mar 21 08:43	3° 8 04'54	
evening set	14671 Apr 14 15:50	16° 8 54'57		evening set	14672 Mar 28 01:19	0° 8 34'29	
asc. node	14671 Apr 16 15:38	15° 8 04'46		evening see	14672 Mar 28 18:46	30°RY	
min. Earth dist.	14671 Apr 18 17:06	12° 8 47'35	0.66541 AU	min. Earth dist.	14672 Mar 31 21:59	26° Y ′59'30	0.64876 AU
inferior conj	14671 Apr 20 15:29	10° 8 28'35	1°12'48	asc. node	14672 Apr 02 13:02	25° Y °13'03	
minimum elong	14671 Apr 20 13:47	10° 8 33'40	1°11'37	inferior conj	14672 Apr 03 08:38	24° Y 18'58	0°15'30
morning rise	14671 Apr 26 12:48	4° 8 48'25		minimum elong	14672 Apr 03 08:12	24° Y 20'10	0°15'00
direct	14671 Apr 29 14:00	3° 8 56'30		transit middle	14672 Apr 03 08:12	24° Y ′20′10	0°15'00
morning max el	14671 May 06 00:15	7° 8 20'12	18°20'48	transit begin	14672 Apr 03 07:09	24° Y 23'05	
desc. node	14671 May 19 11:48	25° 8 56'45		transit end	14672 Apr 03 09:16	24° Y 17'15	
	14671 May 22 01:27	$\Pi^{\circ}0$		morning rise	14672 Apr 09 16:58	18° Ƴ 52'17	
morning set	14671 May 26 00:57	6° Ⅱ 18'58		direct	14672 Apr 12 08:48	18° Y 15′16	
	14671 Jun 10 01:55	0ංම		morning max el	14672 Apr 18 16:36	21° Y 31'29	17°54'49
					14672 Apr 25 08:19	0°8	
superior conj	14671 Jun 10 15:23	0° © 52'32		desc. node	14672 May 05 08:33	16° 8 06'58	
minimum elong	14671 Jun 10 09:02	0°927'46	2°06'55	morning set	14672 May 06 06:52	17° 8 39'26	
max. Earth dist.	14671 Jun 11 12:10	2°913'40	1.45921 AU		14672 May 13 19:07	Π $\circ 0$	
evening rise	14671 Jun 26 14:22	25°9547'12			14672 M 20 06 22	100 T 24/20	1040120
araataat hrillianav	14671 Jun 29 06:59 14671 Jul 06 12:45	0° Ω 11° Ω 15'07	0.000	superior conj	14672 May 20 06:32	10° Ⅱ 24'20 9° Ⅱ 48'59	
greatest brilliancy asc. node	14671 Jul 13 14:14	$21^{\circ}\Omega 37'20$	-0.8111	minimum elong max. Earth dist.	14672 May 19 21:38 14672 May 24 08:14	9 П 48 39 16° П 50'07	
evening max el	14671 Jul 19 03:08	28°Ω18'12	18°56'08	max. Earth dist.	14672 Jun 01 19:28	10 1 13007	1.43334 AU
evening max er	14671 Jul 21 00:57	0° m)	10 30 00	evening rise	14672 Jun 05 06:06	5° © 17'33	
retrograde	14671 Jul 25 20:54	2° Mp 00'04		greatest brilliancy	14672 Jun 19 15:22	26°957'14	-0.6m
evening set	14671 Jul 29 06:43	0° m/52'56		greatest erritaine,	14672 Jun 21 18:09	0°Ω	0.0111
	14671 Jul 30 10:43	30°RΩ		asc. node	14672 Jun 29 11:04	10° Ω 04'41	
inferior conj	14671 Aug 03 19:11	25°Ω08'16	2°49'43	evening max el	14672 Jul 01 09:07	12° Ω 08'02	19°47'04
minimum elong	14671 Aug 03 20:58	25° Ω 02'34	2°48'44	retrograde	14672 Jul 08 19:16	16° Ω 19'30	
min. Earth dist.	14671 Aug 05 11:25	23° Ω 00'39	0.66440 AU	evening set	14672 Jul 12 14:48	14° Ω 55'13	
morning rise	14671 Aug 09 10:28	18° Ω 42'58		inferior conj	14672 Jul 17 22:31	8° Ω 57'35	3°06'20
desc. node	14671 Aug 15 10:04	16° Ω 04'48		minimum elong	14672 Jul 17 23:24	8° Ω 54'38	3°05'23
direct	14671 Aug 15 15:34	16° Ω 04'36		min. Earth dist.	14672 Jul 19 00:35	7° Ω 30′04	0.67767 AU
morning max el	14671 Aug 28 13:12		26°21'07	morning rise	14672 Jul 23 07:33	2° Ω 33′01	
	14671 Sep 03 03:27	0° m)		direct	14672 Jul 29 02:16	0° Ω 01'13	
	14671 Sep 23 19:01	0∘ ⊽		desc. node	14672 Aug 01 07:30	0° Ω 40'43	
morning set	14671 Oct 03 11:05	17° Ω 03'55	1.04550 :	morning max el	14672 Aug 10 00:05	7° Ω 09'30	25°01'26
max. Earth dist.	14671 Oct 07 08:04	24° £ 28'55	1.34720 AU		14672 Aug 27 19:47	0° m)	
asc. node	14671 Oct 09 16:08	29° ₽ 06'53		morning set	14672 Sep 14 19:54	29° m) 09'25	
	14671 Oct 10 02:42	0° M			14672 Sep 15 07:16	0∘ ⊽	

max. Earth dist.	14672 Sep 18 09:18	5° Ω 35'47	1.36844 AU		14673 Jul 31 10:01	0°N	
max. Earth dist.	14072 Sep 18 09.18	3 = 3347	1.30044 AU		14673 Aug 21 00:46	0°m)	
superior conj	14672 Sep 25 00:44	18° ≏ 16'11	-0°04'36	morning set	14673 Aug 27 08:09	10° Mp 20'21	
minimum elong	14672 Sep 25 01:00	18° ≏ 17'32		max. Earth dist.	14673 Aug 31 07:08	17° mp 07'15	1.39205 AU
behind sun begin	14672 Sep 24 18:42	17° ≏ 46'32			14673 Sep 07 10:42	0∘ <u>⊽</u>	
behind sun end	14672 Sep 25 07:19	18° ≏ 48'35			1		
asc. node	14672 Sep 25 12:42	19° ≙ 15'13		superior conj	14673 Sep 07 22:57	0° £ 57'03	-0°39'19
	14672 Sep 30 21:05	0° M		minimum elong	14673 Sep 08 01:49	1° ≏ 10′28	0°38'54
evening rise	14672 Oct 03 06:12	4° ™ 49'42		asc. node	14673 Sep 12 09:15	9° ഫ 21'25	
	14672 Oct 17 16:32	0° ∡ ¹		evening rise	14673 Sep 17 04:24	18° ≏ 39'55	
evening max el	14672 Oct 20 10:06	3° ∡ ¹05′26	19°38'13		14673 Sep 23 03:45	0° M	
desc. node	14672 Oct 28 03:45	7° ∡ ¹48'11		evening max el	14673 Oct 03 07:54	14°M56'29	18°45'23
retrograde	14672 Oct 30 07:22	8° ₮ 01'48		retrograde	14673 Oct 11 16:45	19°M09'28	
evening set	14672 Nov 01 05:30	7° ∡ 751′26		evening set	14673 Oct 13 14:25	18° M 57'11	
inferior conj	14672 Nov 09 23:09	3° ∡ ¹47'53	-3°54'44	desc. node	14673 Oct 15 01:09	18°M32'21	
minimum elong	14672 Nov 09 13:41	4° ∡ °02'47	3°50'44	inferior conj	14673 Oct 21 17:40	14°M34'51	-2°07'56
min. Earth dist.	14672 Nov 12 05:35	2° ∡ °22'06	0.55325 AU	minimum elong	14673 Oct 21 12:24	14°M44'29	
	14672 Nov 16 13:22	30°RML		min. Earth dist.	14673 Oct 24 19:26	12°M20'41	0.56921 AU
morning rise	14672 Nov 17 20:02	29°M28'25		morning rise	14673 Oct 29 07:08	9°M39'11	
direct	14672 Nov 23 00:00	28°M29'01		direct	14673 Nov 04 05:13	8°M14'02	
	14672 Nov 29 08:07	0° ∡		morning max el	14673 Nov 18 10:21	15°M37'01	26°30'46
morning max el	14672 Dec 06 21:23	5° ₹ 25'46	24°56'53		14673 Nov 30 01:48	0° ∡	
asc. node	14672 Dec 22 13:27	26° ∡ ′43'43		asc. node	14673 Dec 09 10:30	15° ∡ 42′27	
	14672 Dec 24 09:23	0°る			14673 Dec 16 13:53	0°る	
morning set	14673 Jan 02 00:10	17° る 16'46		morning set	14673 Dec 17 10:38	1°る50'44	
	14673 Jan 07 19:23	0° ≈			14672 D 24 05 20	160740122	1027126
	14672 1 00 10 20	20 0712.6	1026144	superior conj	14673 Dec 24 05:20	16°₹48'32	
superior conj	14673 Jan 08 18:30	2°≈07'26	1°36'44	minimum elong	14673 Dec 24 04:57	16°පි46'22 18°පි21'24	1°38'36 1.31331 AU
minimum elong	14673 Jan 08 19:11	2°≈11'12 6°≈15'40		max. Earth dist.	14673 Dec 24 21:59	18° ⊘ 21′24 0° ≈	1.31331 AU
max. Earth dist.	14673 Jan 10 15:48	17°≈45'39	1.32080 AU	ovening rise	14673 Dec 30 05:31	0°≈ 1°≈57'18	
evening rise	14673 Jan 16 01:56 14673 Jan 22 08:00	17 ≈ 43 39 0°) €		evening rise desc. node	14673 Dec 31 03:36 14674 Jan 10 23:42	1 ≈3718 22°≈53'52	
desc. node	14673 Jan 24 02:59	3° ¥ 16'55		desc. Hode	14674 Jan 15 05:52	0° \	
desc. node	14673 Feb 10 12:21	0° Υ		evening max el	14674 Jan 31 13:45	21°) 03'46	27°19'06
evening max el	14673 Feb 18 06:25	8° Υ '39'27	27°34'54	retrograde	14674 Feb 14 13:32	28°\(\frac{1}{22}\)'24	27 1700
retrograde	14673 Mar 04 03:24	16° Υ 06'51	27 34 34	evening set	14674 Feb 21 08:31	26° X 18'21	
evening set	14673 Mar 10 23:54	13° Υ 45'39		min. Earth dist.	14674 Feb 25 04:14		0.60720 AU
min. Earth dist.	14673 Mar 14 18:09	10° Y ′38′23	0.62894 AU	inferior conj	14674 Feb 28 08:02	20° ¥ 47'55	
inferior conj	14673 Mar 17 15:19	7° Υ '48'41		minimum elong	14674 Feb 28 12:57	20°) €37'15	
minimum elong	14673 Mar 17 17:07	7° Υ ′44'15		asc. node	14674 Mar 07 07:58	16°) €05'36	
asc. node	14673 Mar 20 10:29	5° Υ 12'15		morning rise	14674 Mar 07 20:38	15° ¥ 55'39	
morning rise	14673 Mar 24 13:03	2° Y '37'50		direct	14674 Mar 09 22:47	15°) 37'45	
direct	14673 Mar 26 20:56	2° Y 12'13		morning max el	14674 Mar 17 02:12	19° ∺ 12'39	17°55'51
morning max el	14673 Apr 02 10:23	5° Y '32'29	17°46'14		14674 Mar 24 23:43	$0^{\circ}\mathbf{Y}$	
	14673 Apr 18 11:19	0°8		morning set	14674 Apr 01 16:17	13° Y 36'51	
morning set	14673 Apr 18 14:01	0° 8 11'46		desc. node	14674 Apr 09 01:49	26° Ƴ 59'27	
desc. node	14673 Apr 22 05:13	6° 8 29'34			14674 Apr 10 18:42	9° 8	
superior conj	14673 Apr 30 17:40	20° 8 53'40		superior conj	14674 Apr 12 04:34	2° 8 28'02	
minimum elong	14673 Apr 30 11:27	20° 8 27'56	1°03'51	minimum elong	14674 Apr 12 02:22	2° 8 18'26	
	14673 May 06 07:55	0°II		max. Earth dist.	14674 Apr 19 15:41	15° 8 05'42	1.42772 AU
max. Earth dist.	14673 May 07 01:54	1° Ⅱ 12'01	1.44447 AU	evening rise	14674 Apr 25 15:52	24° 8 46'52	
evening rise	14673 May 15 17:26	14° ∏ 44'48			14674 Apr 28 23:59	0° I I	
	14673 May 25 20:08	0°®			14674 May 19 19:03	0°©	
evening max el	14673 Jun 14 09:14	25°\$59'14	20°52'06	evening max el	14674 May 28 04:02	9° 9 50'57	22°07'39
asc. node	14673 Jun 16 07:59	27°5647'38		asc. node	14674 Jun 03 05:02	14°931'41	
ratrograda	14673 Jun 19 13:34	0° Ω 0° Ω 49'38		retrograde	14674 Jun 06 16:07	15°S25'04 13°S27'28	
retrograde	14673 Jun 22 18:16 14673 Jun 25 17:58	0° 3≀2 49′38 30° ₹ ©		evening set inferior conj	14674 Jun 11 09:13 14674 Jun 16 15:34	7°908'30	3°03'40
evening set	14673 Jun 25 17:58 14673 Jun 27 00:13	30°ജ്ജ 29°©08'18		minimum elong	14674 Jun 16 15:34 14674 Jun 16 14:33	7°908'30	3°03'40 3°02'33
inferior conj	14673 Jul 02 06:02	29 908 18 22°959'06	3°10'31	min. Earth dist.	14674 Jun 16 14:33	7°912'06 7°911'15	0.69015 AU
minimum elong	14673 Jul 02 05:55	22° © 59'30	3°09'32	morning rise	14674 Jun 21 19:41	0°954'40	0.07013 AU
min. Earth dist.	14673 Jul 02 03:35	22°516'07	0.68633 AU	morning risc	14674 Jun 23 00:54	0 €334 40 30°R∏	
morning rise	14673 Jul 07 11:20	16°938'49	0.03055 110	direct	14674 Jun 26 14:04	28° ∏ 53'37	
direct	14673 Jul 12 18:12	14°520'04			14674 Jun 30 10:55	0°99	
desc. node	14673 Jul 19 04:53	16°957'36		morning max el	14674 Jul 05 23:32	4° © 23'57	22°04'36
morning max el	14673 Jul 23 10:44	20°542'47	23°32'51	desc. node	14674 Jul 06 02:09	4°530'30	2 -
		. = .= .,	= -			_ 5050	

morning rise	14676 May 20 18:29	29° 8 38'16		minimum elong	14677 Apr 29 10:51	19° 8 50'39	1°38'52
direct	14676 May 24 12:28	28° 8 17'39		morning rise	14677 May 05 05:07	13° 8 57'22	
	14676 May 29 01:40	Π °0		direct	14677 May 08 12:04	12° 8 55'44	
morning max el	14676 May 31 19:04	2° Ⅱ 18'52	19°36'01	morning max el	14677 May 15 03:36	16° 8 29'45	18°43'26
desc. node	14676 Jun 08 20:20	12° Ⅱ 08'55			14677 May 25 12:25	Π $^{\circ}0$	
greatest brilliancy	14676 Jun 13 10:53	18° Ⅱ 43'30	-0.6m	desc. node	14677 May 26 17:14	1° Ⅱ 48'06	
	14676 Jun 20 23:52	0°€		morning set	14677 Jun 06 00:46	17° ∏ 44'22	
morning set	14676 Jun 26 12:22	8° © 25'45			14677 Jun 13 21:28	0 \circ \odot	
max. Earth dist.	14676 Jul 08 06:54	26°5544'03	1.45004 AU	max. Earth dist.	14677 Jun 21 00:56	11° © 08'21	1.45797 AU
	14676 Jul 10 08:25	$0^{\circ}\Omega$					
				superior conj	14677 Jun 22 04:55	12° © 57'39	-2°13'00
superior conj	14676 Jul 12 16:18	3° Ω 42'42	-2°08'46	minimum elong	14677 Jun 22 02:40	12° © 48'55	2°14'00
minimum elong	14676 Jul 12 21:19	4° Ω 02'49	2°09'27		14677 Jul 03 00:38	$0^{\circ}\Omega$	
evening rise	14676 Jul 26 14:39	26° Ω 34'23		evening rise	14677 Jul 07 15:24	7° Ω 21'30	
C	14676 Jul 28 15:43	0° m)		greatest brilliancy	14677 Jul 14 00:16	17° Ω 32'18	-0.9m
asc. node	14676 Aug 02 23:03	8° m 49'08		asc. node	14677 Jul 20 19:44	28° Ω 04'47	
evening max el	14676 Aug 13 18:58	24° m) 01'19	18°09'13		14677 Jul 22 03:26	0° m)	
retrograde	14676 Aug 20 03:39	27° m) 22'13		evening max el	14677 Jul 28 08:07	7° m) 42'17	18°34'10
evening set	14676 Aug 22 23:07	26° mp 40'21		retrograde	14677 Aug 03 20:10	11° m) 12'44	
inferior conj	14676 Aug 29 01:47	21° mg 19'21	1°52'53	evening set	14677 Aug 07 00:35	10° m) 15'21	
minimum elong	14676 Aug 29 04:11	21° mg 12'42	1°51'55	inferior conj	14677 Aug 12 17:15	4° m) 39'07	2°33'42
min. Earth dist.	14676 Aug 31 16:05	18° Mp 27'25	0.63522 AU	minimum elong	14677 Aug 12 19:26	4° Mp 32'27	
morning rise	14676 Sep 04 07:20	15° m 03'45	0.03322 AO	min. Earth dist.	14677 Aug 12 17:53	2° m) 11'33	0.65480 AU
desc. node	-			iiiii. Eartii tiist.	•	2 III/11 33 30°RΩ	0.03480 AU
	14676 Sep 04 17:39 14676 Sep 10 22:37	14° Mp 44'38 12° Mp 32'05		morning rice	14677 Aug 16 16:46	28° Ω 15'25	
direct		-	27045104	morning rise	14677 Aug 18 13:09		
morning max el	14676 Sep 24 20:27	20° m/32'47	27°45'04	desc. node	14677 Aug 22 15:08	25° Ω 56'43	
	14676 Oct 03 00:21	0∘ 亚		direct	14677 Aug 24 23:11	25° Ω 36'33	
	14676 Oct 22 07:16	0°M			14677 Sep 03 12:40	0° m/y	2.050101
morning set	14676 Oct 29 14:49	13°M56'20		morning max el	14677 Sep 07 07:30	3° m/28'42	26°59'01
asc. node	14676 Oct 30 01:04	14°M47'53		_	14677 Sep 27 09:17	0∘ ⊽	
max. Earth dist.	14676 Nov 03 12:53	24° ™ 06'47	1.32269 AU	morning set	14677 Oct 12 23:14	27° Ω 06'58	
					14677 Oct 14 10:53	0° M	
superior conj	14676 Nov 06 10:33	0° ≯ 21'25	1°04'41	asc. node	14677 Oct 16 21:44	4°M52'28	
minimum elong	14676 Nov 06 08:14	0° ∡ °08'51	1°05'09	max. Earth dist.	14677 Oct 17 04:14	5°M25'19	1.33672 AU
	14676 Nov 06 06:36	0° ∡					
evening rise	14676 Nov 13 07:10	15° ∡ 19'00		superior conj	14677 Oct 21 12:28	14° M 24'04	0°42'01
	14676 Nov 20 12:02	0°ಕ		minimum elong	14677 Oct 21 10:30	14°M13'42	0°42'19
desc. node	14676 Dec 01 14:30	17° る 42'37		evening rise	14677 Oct 28 17:30	29° ™ 45'41	
evening max el	14676 Dec 06 15:54	23° る 23'29	23°26'20		14677 Oct 28 20:12	0° ∡ 7	
	14676 Dec 19 04:01	0° ≈			14677 Nov 15 01:27	0°ප	
retrograde	14676 Dec 20 00:41	0° ≈ 01'41		evening max el	14677 Nov 18 04:30	3° る 26'00	21°45'30
	14676 Dec 20 21:27	30°Ŗ₹		desc. node	14677 Nov 18 11:38	3°₹43′18	
evening set	14676 Dec 24 11:38	29° る 18'34		retrograde	14677 Nov 30 13:07	9° ට 33'05	
min. Earth dist.	14676 Dec 31 02:24	26° る 10'29	0.55119 AU	evening set	14677 Dec 03 15:45	9° る 11'20	
inferior conj	14677 Jan 01 15:55	25° ⋜ 15'48	-5°53'09	inferior conj	14677 Dec 12 08:57	5° る 19'11	-5°51'04
minimum elong	14677 Jan 01 19:58	25° る 09'53	5°51'51	minimum elong	14677 Dec 12 03:54	5° る 26'15	5°49'32
morning rise	14677 Jan 10 05:53	21° る 23'37		min. Earth dist.	14677 Dec 12 08:22	5° る 20'01	0.54468 AU
direct	14677 Jan 12 23:36	21° る 05'29		morning rise	14677 Dec 20 16:48	1° る 31'21	
morning max el	14677 Jan 23 23:43	26° පි 22'41	20°30'28	direct	14677 Dec 24 08:47	1°る01'55	
asc. node	14677 Jan 26 00:16	28° る 29'39		morning max el	14678 Jan 05 20:04	7° る 02'29	22°06'08
	14677 Jan 27 06:50	0° ≈		asc. node	14678 Jan 12 21:33	15° る 28'46	
morning set	14677 Feb 11 16:09	26° ≈ 41'22			14678 Jan 21 11:31	0° ≈	
Ü	14677 Feb 13 06:36	0° ∀		morning set	14678 Jan 27 02:39	11° ≈ 26′06	
				8 - 11			
superior conj	14677 Feb 19 05:07	12° ¥ 14'12	1°05'45	superior conj	14678 Feb 03 04:41	26° ≈ 31'16	1°22'53
minimum elong	14677 Feb 19 07:45	12°) 27'36	1°05'48	minimum elong	14678 Feb 03 06:52	26°≈42'47	1°23'19
max. Earth dist.	14677 Feb 24 15:05	22°\(\frac{12}{56}\)'28	1.36204 AU		14678 Feb 04 20:30	0° ∀	/
desc. node	14677 Feb 27 15:22	28° H 37'05	1.50201710	max. Earth dist.	14678 Feb 07 04:19	4°) 47'14	1.34276 AU
evening rise	14677 Feb 28 11:08	0°Υ08'03		evening rise	14678 Feb 11 12:20	13°) 22'10	1.5 12/0 AU
Svening 1150	14677 Feb 28 11:08	0° γ		desc. node	14678 Feb 14 11:55	18° X 59'40	
	14677 Mar 18 17:02	0° 8		uese. Hour	14678 Feb 14 11:55 14678 Feb 20 17:23	18°π3940 0° Υ	
ovening mas1		21° 8 28'20	25°59'57		14678 Mar 13 15:15	0° ∀	
evening max el	14677 Apr 04 22:09		43 3731	ovenina mas1			26055155
retrograde	14677 Apr 17 14:18	28° 8 44'31		evening max el	14678 Mar 18 12:00	5° 8 10'59	26°55'55
evening set	14677 Apr 23 17:19	26° 8 14'06		retrograde	14678 Mar 31 19:39	12° 8 38'31	
asc. node	14677 Apr 23 20:46	26° 8 06'49	0.67214 ***	evening set	14678 Apr 07 07:56	10° 8 06'34	
min. Earth dist.	14677 Apr 27 21:44	21° 8 46'52	0.67314 AU	asc. node	14678 Apr 10 18:09	6° 8 49'18	0.65077 433
inferior conj	14677 Apr 29 12:54	19° 8 44'15	1°40'14	min. Earth dist.	14678 Apr 11 07:08	6° 8 13'02	0.65877 AU

						••	
inferior conj	14678 Apr 13 10:45	3° 8 43'41	0°50'03	min. Earth dist.	14679 Mar 25 08:35	20° Y 12'19	0.64072 AU
minimum elong	14678 Apr 13 09:29	3° 8 47'22	0°49'05	inferior conj	14679 Mar 27 23:52	17° Y ′26′36	
	14678 Apr 16 22:47	30° ₹Ƴ		minimum elong	14679 Mar 28 00:16	17° Y 25′34	0°12'37
morning rise	14678 Apr 19 12:25	28° Y ′08'42		transit middle	14679 Mar 28 00:16	17° Y 25′34	0°12'37
direct	14678 Apr 22 09:26	27° Y 23'32		transit begin	14679 Mar 27 22:21	17° Ƴ 30'36	
	14678 Apr 27 23:13	0°8		transit end	14679 Mar 28 02:10	17° Ƴ 20′33	
morning max el	14678 Apr 28 17:44	0° 8 42'51	18°07'33	asc. node	14679 Mar 28 15:35	16° Ƴ 45'34	
desc. node	14678 May 13 14:03	21° 8 48'58		morning rise	14679 Apr 03 13:37	12° Y ′06'01	
morning set	14678 May 17 14:29	28° 8 18'01		direct	14679 Apr 06 01:58	11° Y '34'09	
Ü	14678 May 18 15:45	0°II		morning max el	14679 Apr 12 11:01	14° Y 50'36	17°48'57
		-			14679 Apr 23 06:04	0°8	-,
superior conj	14678 Jun 01 14:04	22° I 109'58	-1°57'09	morning set	14679 Apr 29 07:53	10° 8 11'41	
minimum elong	14678 Jun 01 05:48	21° I I37'37		desc. node	14679 Apr 30 10:47	12° 8 05'15	
max. Earth dist.	14678 Jun 03 21:02	25° II 45'05	1.45850 AU	desc. Hode	14679 May 11 06:05	0°Ⅱ	
max. Earm dist.		25 H 45 05	1.43630 AU		140/9 May 11 00.03	υщ	
	14678 Jun 06 14:24				14670 14 12 12 27	201102120	1005147
evening rise	14678 Jun 17 16:38	17° © 12'10		superior conj	14679 May 12 12:37	2° Ⅱ 03'28	
	14678 Jun 26 00:02	0° Ω		minimum elong	14679 May 12 04:27	1° Ⅱ 30′29	
greatest brilliancy	14678 Jun 29 18:06	5° Ω 40'49	-0.7m	max. Earth dist.	14679 May 17 16:49	10° Ⅱ 19'00	1.45159 AU
asc. node	14678 Jul 07 16:29	16° Ω 52′25		evening rise	14679 May 28 04:30	26° Ⅱ 36′29	
evening max el	14678 Jul 11 17:17	21° Ω 30′39	19°16'02		14679 May 30 09:52	0 \circ	
retrograde	14678 Jul 18 17:03	25° Ω 23'24			14679 Jun 20 04:32	0 $^{\circ}$ Ω	
evening set	14678 Jul 22 06:58	24° Ω 09'02		asc. node	14679 Jun 24 13:21	5° Ω 02'43	
inferior conj	14678 Jul 27 17:03	18° Ω 18'57	2°58'23	evening max el	14679 Jun 24 20:53	5° Ω 21'47	20°13'13
minimum elong	14678 Jul 27 18:29	18° Ω 14'17	2°57'26	retrograde	14679 Jul 02 15:52	9° Ω 48'28	
min. Earth dist.	14678 Jul 29 03:17	16° Ω 27'29	0.67060 AU	evening set	14679 Jul 06 15:52	8° Ω 16'40	
morning rise	14678 Aug 02 05:24	11° Ω 53'37		inferior conj	14679 Jul 11 22:26	2°Ω13'58	3°09'30
direct	14678 Aug 08 06:29	9° Ω 16'55		minimum elong	14679 Jul 11 22:54	2°Ω12'25	3°08'34
desc. node	14678 Aug 09 12:36	9° Ω 22'54		min. Earth dist.	14679 Jul 12 18:35	1°Ω05'17	0.68195 AU
morning max el	14678 Aug 20 18:30	16° Ω 44'59	25048155	iiiii. Lattii dist.	14679 Jul 13 14:03	30°RS	0.00173 AC
morning max ci	•	0°M)	25 46 55	morning rise	14679 Jul 17 05:36	25° © 51'11	
	14678 Aug 31 19:10	0∘ ʊ ∩ ılı		morning rise			
. ,	14678 Sep 20 07:24			direct	14679 Jul 22 19:26	23°524'23	
morning set	14678 Sep 25 17:48	9° ₽ 38'39	1.05556 1.77	desc. node	14679 Jul 27 10:02	24°9545'14	
max. Earth dist.	14678 Sep 29 09:49	16° △ 30'06	1.35576 AU		14679 Aug 02 23:34	0 ° Ω	
asc. node	14678 Oct 03 18:19	25° ≏ 00′28		morning max el	14679 Aug 03 05:05	0° Ω 13'53	24°24'22
					14679 Aug 25 15:55	0° ™	
superior conj	14678 Oct 05 06:20	28° ≏ 01'26	0°13'52	morning set	14679 Sep 07 18:23	21°M 22'04	
minimum elong	14678 Oct 05 05:31	27° ≏ 57'18	0°14'06	max. Earth dist.	14679 Sep 11 09:12	27° m 45'44	1.37836 AU
behind sun begin	14678 Oct 05 02:31	27° ≏ 42'08			14679 Sep 12 14:51	0∘ ⊽	
behind sun end	14678 Oct 05 08:31	28° ≏ 12'29					
	14678 Oct 06 05:41	0° M $_{\circ}$		superior conj	14679 Sep 18 12:51	11° ≏ 05'34	-0°18'58
evening rise	14678 Oct 13 01:06	14° ™ 03'20		minimum elong	14679 Sep 18 14:07	11° ≙ 11'44	0°18'38
	14678 Oct 21 05:29	0° ∡ ¹		asc. node	14679 Sep 20 14:53	15° ≏ 08'29	
evening max el	14678 Oct 31 04:27	14° ∡ ¹00'14	20°18'44	evening rise	14679 Sep 27 03:36	28° ഫ 06'01	
desc. node	14678 Nov 05 08:54	17° ∡ 56'37		Č	14679 Sep 28 02:34	0°M	
retrograde	14678 Nov 11 00:15	19° ∡ 23′26		evening max el	14679 Oct 13 18:43	25°M22'42	19°13'02
evening set	14678 Nov 13 04:32	19° × 11'21		retrograde	14679 Oct 22 23:30	29°M59'46	
inferior conj	14678 Nov 22 01:56	15° ₹ 15'22	-4°40'28	desc. node	14679 Oct 22 25:36 14679 Oct 23 06:15	29°M59'31	
minimum elong	14678 Nov 21 15:53	15° х 13′22 15° х 30′08	4°45'53	evening set	14679 Oct 24 20:23	29°M49'07	
min. Earth dist.	14678 Nov 23 14:48	13 x 30 08 14° x 21'04		-	14679 Nov 02 08:44	25°M37'48	201000
			0.54755 AU	inferior conj			
morning rise	14678 Nov 30 02:39	11° х 13'12		minimum elong	14679 Nov 02 00:47	25°M51'05	3°06'18
direct	14678 Dec 04 18:33	10° ₹ 26'16		min. Earth dist.	14679 Nov 05 01:01	23°M50'28	0.55924 AU
morning max el	14678 Dec 18 06:30	17° ∡ '03'50	23°54'49	morning rise	14679 Nov 10 02:44	21°M03'45	
	14678 Dec 28 15:16	0°る		direct	14679 Nov 15 14:55	19° ™ 54'08	
asc. node	14678 Dec 30 18:45	3° る 24'59		morning max el	14679 Nov 29 16:31	27° M 02'03	25°39'45
morning set	14679 Jan 11 14:33	26° る 10'36			14679 Dec 02 13:33	0° ∡ ¹	
	14679 Jan 13 09:04	0° ≈		asc. node	14679 Dec 17 15:52	22° ∡ ¹04'17	
					14679 Dec 21 20:30	0°る	
superior conj	14679 Jan 18 10:27	11° ≈ 02'43	1°33'29	morning set	14679 Dec 27 02:04	10°る50'02	
minimum elong	14679 Jan 18 11:45	11° ≈ 09'45	1°34'15				
max. Earth dist.	14679 Jan 21 01:22	16° ≈ 41'51	1.32754 AU	superior conj	14680 Jan 02 20:03	25° る 42'06	1°37'51
evening rise	14679 Jan 26 01:18	27° ≈ 04'03	-	minimum elong	14680 Jan 02 20:17	25° ප් 43'21	1°38'48
5 - 7	14679 Jan 27 12:41	0° ∀		max. Earth dist.	14680 Jan 04 05:06	28° る 44'50	1.31705 AU
desc. node	14679 Feb 01 08:31	9° ₩ 09'19			14680 Jan 04 18:45	0° ≈	
acse. Houc	14679 Feb 14 00:34	9 γ (0919		evening rise	14680 Jan 09 23:04	0 ≈ 11°≈06'32	
avanina may al		18° Υ 33'20	27020151	desc. node		29°≈00'21	
evening max el	14679 Mar 01 01:02		21 20 34	desc. Hode	14680 Jan 19 05:12		
retrograde	14679 Mar 14 18:18	26° Y ′02'07			14680 Jan 19 18:39	0°) €	
evening set	14679 Mar 21 13:06	23° Y 35'02			14680 Feb 10 01:47	0° Υ	

J	J		Ü	(//		,	1 0
evening max el	14680 Feb 11 11:04	1° Y ′22'01	27°32'16		14681 Jan 12 10:58	0° ∀	
retrograde	14680 Feb 25 09:15	8° Υ 45'39	27 32 10	evening max el	14681 Jan 23 15:35	13° ¥ 25'51	2700140
evening set	14680 Mar 03 06:07	6° Υ 30'39		retrograde	14681 Feb 06 15:32	20°\(\frac{13}{40}\)'37	27 01 40
•			0.61991 AU	-	14681 Feb 06 13.32 14681 Feb 13 07:53	20 X 4037 18° ¥ 45'35	
min. Earth dist.	14680 Mar 07 00:21			evening set			
inferior conj	14680 Mar 10 01:03	0° Y 44'25		min. Earth dist.	14681 Feb 17 05:51		0.59778 AU
minimum elong	14680 Mar 10 04:06	0° Υ 37'18	1°26'07	inferior conj	14681 Feb 20 10:46	13° ¥ 28′18	
	14680 Mar 10 20:14	30°Ŗ ℋ		minimum elong	14681 Feb 20 17:07	13° ¥ 15′20	2°49'06
asc. node	14680 Mar 14 13:04	27° ₭ 00'45		morning rise	14681 Feb 28 05:44	8° ∺ 45'14	
morning rise	14680 Mar 17 05:02	25°) 41′14		asc. node	14681 Mar 01 10:35	8°) 32′12	
direct	14680 Mar 19 10:17	25° 升 19'15		direct	14681 Mar 02 06:22	8° ∺ 29'34	
morning max el	14680 Mar 26 04:25	28°) 44′03	17°48'04	morning max el	14681 Mar 09 18:27	12° 升 13′40	18°05'50
	14680 Mar 27 09:24	0 ° $\mathbf{\Upsilon}$			14681 Mar 21 15:20	0 ° Υ	
morning set	14680 Apr 10 23:54	23° Y 08'49		morning set	14681 Mar 25 08:34	6° Ƴ 51'41	
	14680 Apr 14 20:51	0°8		desc. node	14681 Apr 03 03:58	23° Y ′04'00	
desc. node	14680 Apr 16 07:25	2° 8 31'34					
	•			superior conj	14681 Apr 04 06:35	25° Y ′02'49	-0°08'59
superior conj	14680 Apr 22 09:54	13° 8 00'56	-0°47'18	minimum elong	14681 Apr 04 05:49	24° Y ′59'28	0°09'12
minimum elong	14680 Apr 22 05:25	12° 8 42'01	0°47'15	behind sun begin	14681 Apr 03 23:26	24° Y 31'02	
max. Earth dist.	14680 Apr 29 09:27	24° 8 32'23		behind sun end	14681 Apr 04 12:12	25° Y °27'50	
	14680 May 02 19:21	0°II			14681 Apr 07 02:08	0°8	
evening rise	14680 May 06 18:59	6° Ⅱ 14'56		max. Earth dist.	14681 Apr 11 21:08		1.41919 AU
e vennig rise	14680 May 22 17:00	0°95		evening rise	14681 Apr 17 01:17	16° 8 39'08	1.11717710
evening max el	14680 Jun 06 18:31	19° © 12'54	21°23'10	evening rise	14681 Apr 25 14:51	0°Ⅱ	
asc. node	14680 Jun 10 10:20	22°\$22'45	21 23 10		14681 May 17 14:11	0°©	
		24°\$21'48		avanina may al	-	3°504'48	22941120
retrograde	14680 Jun 15 14:39			evening max el	14681 May 20 11:23	8°937'03	22 41 39
evening set	14680 Jun 20 01:20	22°533'10	2000154	asc. node	14681 May 28 07:27		
inferior conj	14680 Jun 25 07:04	16°5519'21	3°08'54	retrograde	14681 May 30 11:45	8°958'13	
minimum elong	14680 Jun 25 06:33	16°521'10	3°07'52	evening set	14681 Jun 04 09:40	6°\$54'12	
min. Earth dist.	14680 Jun 25 13:43	15°956'11	0.68854 AU	inferior conj	14681 Jun 09 16:53		2°57'37
morning rise	14680 Jun 30 11:33	10° © 01'41		minimum elong	14681 Jun 09 15:32	0° © 36′11	2°56'25
direct	14680 Jul 05 13:02	7° © 50'21		min. Earth dist.	14681 Jun 09 10:34	0° © 53'27	0.69031 AU
desc. node	14680 Jul 13 07:22	11° © 37'21			14681 Jun 10 01:56	30°R∏	
morning max el	14680 Jul 15 16:29	13° © 51'07	22°54'51	morning rise	14681 Jun 14 21:16	24° Ⅱ 20'37	
	14680 Jul 28 17:53	0 \circ Ω		direct	14681 Jun 19 10:13	22° II 28'02	
	14680 Aug 17 13:42	0° m y		morning max el	14681 Jun 28 07:17	27° Ⅲ 37′05	21°28'54
morning set	14680 Aug 18 20:39	2°M 06'51		desc. node	14681 Jun 30 04:36	29° Ⅲ 36′25	
max. Earth dist.	14680 Aug 23 08:10	9° ™ 37'50	1.40214 AU		14681 Jun 30 13:05	0 \circ	
					14681 Jul 22 07:03	$0^{\circ}\Omega$	
superior conj	14680 Aug 31 03:57	23° Mp 26'45	-0°54'34	morning set	14681 Jul 29 22:26	11° Ω 48'44	
minimum elong	14680 Aug 31 08:06	23° m 45'43	0°54'07	max. Earth dist.	14681 Aug 05 11:45	22° Ω 21'19	1.42437 AU
	14680 Sep 03 17:05	0∘ ত			14681 Aug 10 01:56	0° m)	
asc. node	14680 Sep 06 11:25	5° ≙ 12'36					
evening rise	14680 Sep 09 21:54	11° ≏ 45'25		superior conj	14681 Aug 12 23:17	4° m 55'55	-1°29'28
	14680 Sep 20 01:58	0° M .		minimum elong	14681 Aug 13 06:10	5° m 25'33	1°29'08
evening max el	14680 Sep 25 21:02	7°M32'02	18°29'26	evening rise	14681 Aug 24 04:08	24° m 51'56	
retrograde	14680 Oct 03 17:27	11°MJ30'32		asc. node	14681 Aug 24 07:59	25° m 09'26	
evening set	14680 Oct 05 16:54	11° M .16'09			14681 Aug 27 00:09	0∘ <mark>⊽</mark>	
desc. node	14680 Oct 09 03:41	9° ™ 49'29		evening max el	14681 Sep 09 07:19	20° ≏ 19'39	18°06'33
inferior conj	14680 Oct 13 12:33	6° ™ 44'38	-1°23'44	retrograde	14681 Sep 16 05:32	23° ≏ 52'18	
minimum elong	14680 Oct 13 09:15	6° ™ 51'05	1°21'52	evening set	14681 Sep 18 11:55	23° £ 29'53	
min. Earth dist.	14680 Oct 16 17:54	4°M14'04	0.57762 AU	inferior conj	14681 Sep 25 13:38	18° Ω 37'41	0°09'00
morning rise	14680 Oct 20 22:05	1°M32'54	0.57702110	minimum elong	14681 Sep 25 13:56	18° ≙ 37'00	0°09'06
morning rise	14680 Oct 25 21:31	30°R Ω		transit middle	14681 Sep 25 13:56	18° ⊆ 37'00	0°09'06
direct	14680 Oct 27 01:50	29° £ 56'26		transit begin	14681 Sep 25 11:10	18° 2 43'18	0 09 00
direct		0°M		•	*	18° £ 30'41	
	14680 Oct 28 06:18		27002112	transit end	14681 Sep 25 16:42		
morning max el	14680 Nov 10 08:52	7°M29'10	2/ 02/13	desc. node	14681 Sep 26 01:11	18° Ω 11'18	0.50002 411
	14680 Nov 27 05:43	0° ⊼ ¹		min. Earth dist.	14681 Sep 28 19:15	15° Ω 42'19	0.59982 AU
asc. node	14680 Dec 03 12:54	11° x 15'21		morning rise	14681 Oct 02 12:41	12° ≏ 53'42	
morning set	14680 Dec 10 11:27	25° ₹ 19'46		direct	14681 Oct 09 02:02	10° ⊆ 50'51	amo / 01a -
	14680 Dec 12 15:12	0°₹		morning max el	14681 Oct 23 08:55	18° ≏ 41'00	27°49'20
					14681 Nov 01 22:25	0° ™	
superior conj	14680 Dec 17 07:27	10° る 23'41	1°36'10		14681 Nov 19 23:49	0° ∡ ¹	
minimum elong	14680 Dec 17 06:38	10° ろ 19'06	1°37'09	asc. node	14681 Nov 20 09:47	0° ∡ ¹48'59 −	
max. Earth dist.	14680 Dec 17 12:35	10° る 52'22	1.31162 AU	morning set	14681 Nov 24 16:47	9° х 34′03	
evening rise	14680 Dec 24 03:10	25° る 23'45		max. Earth dist.	14681 Nov 30 20:10	22° ₹ 55'24	1.31158 AU
	14680 Dec 26 07:51	0° ≈					
desc. node	14681 Jan 05 01:57	18° ≈ 25'32		superior conj	14681 Dec 01 18:43	25° ∡ °01'02	1°28'35

minimum elong	14681 Dec 01 17:02	24° ∡ 751'38	1°29'26	superior conj	14682 Nov 16 04:01	9° ∡ ¹29'28	1°15'06
	14681 Dec 04 00:16	0°ಕ		minimum elong	14682 Nov 16 01:48	9° ∡ 17'15	1°15'44
evening rise	14681 Dec 08 11:24	9° る 49'31		evening rise	14682 Nov 22 21:55	24° ∡ 19'38	
	14681 Dec 18 15:47	0° ≈			14682 Nov 25 14:00	0°ಕ	
desc. node	14681 Dec 22 22:49	7°≈14'03		desc. node	14682 Dec 09 19:47	25° る 12'32	
evening max el	14682 Jan 05 12:21	24° ≈ 37'04	25°56'57		14682 Dec 13 10:58	0° ≈	
	14682 Jan 12 21:07	0° ∀		evening max el	14682 Dec 18 01:11	5° ≈ 00'15	24°25'18
retrograde	14682 Jan 19 10:59	1°) 40′11		retrograde	14682 Dec 31 17:16	11° ≈ 48'45	
evening set	14682 Jan 25 14:18	0° 米 11'51		evening set	14683 Jan 05 21:47	10° ≈ 49'45	
	14682 Jan 26 00:12	30°R≈		min. Earth dist.	14683 Jan 11 12:53	7°≈58'28	0.55870 AU
min. Earth dist.	14682 Jan 30 01:27	27° ≈ 34'11	0.57644 AU	inferior conj	14683 Jan 13 18:53	6°≈35'12	
inferior conj	14682 Feb 02 01:21	25°≈27'25		minimum elong	14683 Jan 14 02:31	6°≈23'24	5°26'38
minimum elong	14682 Feb 02 10:16	25°≈11'39	4°14'37	morning rise	14683 Jan 22 09:12	2° ≈ 33'56	
morning rise	14682 Feb 10 09:11	21°≈05'50		direct	14683 Jan 24 18:02	2°≈19'02	
direct	14682 Feb 12 09:51	20°≈52'44		asc. node	14683 Feb 03 05:26	6°≈37'19	10044155
asc. node	14682 Feb 16 08:03	21°≈44'45	100140	morning max el	14683 Feb 03 19:57	7°≈11'28	19°44'55
morning max el	14682 Feb 21 01:02	25°≈06'43	18°44'05		14683 Feb 18 13:22	0° \	
	14682 Feb 25 03:49	0°) {		morning set	14683 Feb 21 08:42	5°) 36′11	
morning set	14682 Mar 09 04:47	21°) (04'31			1460234 01 06 26	2101/22126	0050140
	14682 Mar 13 18:51	0° Ƴ		superior conj	14683 Mar 01 06:26	21°\(\frac{1}{32}\)'26	
	1460234 17 22 54	70 0 057100	0005100	minimum elong	14683 Mar 01 09:00	21°) 45′10 0° °	0°52'41
superior conj	14682 Mar 17 22:54	7° Υ 57'20	0°25'02	E d Ed	14683 Mar 05 15:18	* .	1 27457 ATT
minimum elong	14682 Mar 18 00:31	8°Υ04'56	0°24'44	max. Earth dist.	14683 Mar 07 11:06	3° Υ 25'12 4° Υ 10'53	1.37457 AU
desc. node	14682 Mar 21 00:29	13° Υ 38'12	1 20727 ATT	desc. node	14683 Mar 07 20:58		
max. Earth dist.	14682 Mar 25 04:36	21°Υ06'18	1.39727 AU	evening rise	14683 Mar 11 04:06	10° Y 09'16	
evening rise	14682 Mar 29 04:32	27° Y 58'33 0° と			14683 Mar 23 02:59	0°B 0°B	
	14682 Mar 30 09:31	0°U		arranina marral	14683 Apr 14 18:21	0° П 52'20	25920114
arranina marral	14682 Apr 19 03:13 14682 May 03 01:40	0°Щ 16°Щ58'21	24°02'59	evening max el	14683 Apr 15 15:14	0° Ц 32′20 7° Ц 55′23	25-20-14
evening max el	14682 May 14 05:43	16 Д 3821 23° Д 31'21	24 02 39	retrograde asc. node	14683 Apr 27 19:25 14683 May 02 01:57	6° Ц 38'55	
retrograde asc. node	14682 May 15 04:40	23° II 27'20		evening set	14683 May 02 01.37	5°П28'35	
evening set	14682 May 19 15:13	23 H 2720 21° H 14'20		min. Earth dist.	14683 May 08 00:34	0° П 41'05	0.67964 AU
min. Earth dist.	14682 May 24 06:55	15° I I50'22	0.68729 AU	iiiii. Eartii tiist.	14683 May 08 13:17	30°R B	0.07904 AU
inferior conj	14682 May 25 01:58	13 H 30 22 14° H 45'38	2°36'00	inferior conj	14683 May 09 08:22	28° 8 57'56	2003/50
minimum elong	14682 May 25 00:01	14 ∏ 43 38 14° ∏ 52'17	2°34'37	minimum elong	14683 May 09 06:12	29° 8 04'58	2°02'23
morning rise	14682 May 30 08:50	8° Ц 43'03	2 34 37	morning rise	14683 May 14 20:24	23° 8 04'57	2 02 23
direct	14682 Jun 03 09:37	7° Ⅱ 10'40		direct	14683 May 18 09:40	21° 8 52'27	
morning max el	14682 Jun 11 04:14	11° Ⅱ 33'23	20°13'09	morning max el	14683 May 25 08:42	25° 8 40'09	19°11'35
desc. node	14682 Jun 17 01:41	18° Ⅱ 24'08	20 13 07	morning max ci	14683 May 29 05:04	0°Ⅱ	17 11 33
dese. Hode	14682 Jun 25 10:06	0°95		desc. node	14683 Jun 03 22:39	7° Ⅱ 47'30	
morning set	14682 Jul 09 05:00	20°5942'46		greatest brilliancy	14683 Jun 07 05:15	12° Ⅱ 35'49	-0.7m
morning sec	14682 Jul 15 04:17	0° Ω		morning set	14683 Jun 18 09:14	29° I I36'09	0.711
max. Earth dist.	14682 Jul 18 22:19	_	1.44240 AU	morning sec	14683 Jun 18 15:25	0°9	
man. Darun uibt.	1.002 (41 10 22.1)	0000020	12.0110	max. Earth dist.	14683 Jul 01 14:51		1.45437 AU
superior conj	14682 Jul 24 19:27	15° Ω 26'35	-1°58'01				
minimum elong	14682 Jul 25 02:35	15° Ω 55'48		superior conj	14683 Jul 04 17:12	25° © 02'14	-2°13'00
	14682 Aug 02 12:22	0° m		minimum elong	14683 Jul 04 19:31	25° © 11'22	
evening rise	14682 Aug 06 17:23	7° m) 13'31		Č	14683 Jul 07 20:17	$0^{\circ}\Omega$	
asc. node	14682 Aug 11 04:35	14° m 54'56		evening rise	14683 Jul 19 08:28	18° Ω 37'23	
	14682 Aug 20 19:03	0∘ ⊽		•	14683 Jul 26 07:19	0° m)	
evening max el	14682 Aug 23 21:29	3° ₽ 35'42	18°02'59	asc. node	14683 Jul 29 01:14	4° m/23'19	
retrograde	14682 Aug 30 08:05	6° £ 56'37		evening max el	14683 Aug 07 11:51	17° m 09'50	18°17'41
evening set	14682 Sep 01 22:45	6° ₾ 22'33		retrograde	14683 Aug 13 20:44	20° m 32'58	
inferior conj	14682 Sep 08 08:50	1° ≏ 11'24	1°20'56	evening set	14683 Aug 16 20:03	19° m 44'33	
minimum elong	14682 Sep 08 10:53	1° ≏ 06'02	1°20'09	inferior conj	14683 Aug 22 18:00	14° m 16'39	2°12'22
	14682 Sep 09 12:10	30°₽, m p		minimum elong	14683 Aug 22 20:24	14° m 09'41	2°11'20
min. Earth dist.	14682 Sep 11 06:04	28° m 12'44	0.62274 AU	min. Earth dist.	14683 Aug 25 02:32	11° m 33'43	0.64399 AU
desc. node	14682 Sep 12 22:41	26°M 36'59		morning rise	14683 Aug 28 19:15	7° m 56'53	
morning rise	14682 Sep 14 20:38	25° m 04'45		desc. node	14683 Aug 30 20:13	6° Mg 34′20	
direct	14682 Sep 21 13:02	22° m 41'20		direct	14683 Sep 04 08:48	5° m 21'18	
	14682 Oct 04 22:51	0∘ ⊽		morning max el	14683 Sep 18 01:30	13° m 19'10	27°29'01
morning max el	14682 Oct 05 15:19	0° ہ 40'19	27°57'16		14683 Oct 01 12:26	0∘ ⊽	
	14682 Oct 27 01:54	0° M			14683 Oct 19 16:05	0° M	
asc. node	14682 Nov 07 06:34	20°M38'52		morning set	14683 Oct 23 06:40	6° ™ 56'44	
morning set	14682 Nov 08 16:01	23°M28'29		asc. node	14683 Oct 25 03:15	10°M39'11	
	14682 Nov 11 19:01	0° ∡ °		max. Earth dist.	14683 Oct 27 21:17	16°M18'03	1.32809 AU
max. Earth dist.	14682 Nov 14 00:18	4° ∡ ¹46′29	1.31708 AU				

superior conj	14683 Oct 31 09:15	23°M42'50	0°55'46	superior conj	14684 Oct 14 08:04		0°30'42
minimum elong	14683 Oct 31 07:00	23°M30'44	0°56'09	minimum elong	14684 Oct 14 06:29	7° M 27′03	0°30'57
	14683 Nov 03 07:02	0° ∡		evening rise	14684 Oct 21 18:18	23°M12'19	
evening rise	14683 Nov 07 08:51	8° ∡ ¹48'48			14684 Oct 25 01:22	0° ∡	
	14683 Nov 18 06:07	0°ಕ		evening max el	14684 Nov 10 03:16	25° ∡ ¹09'45	21°06'06
desc. node	14683 Nov 26 16:52	12° る 02'23		desc. node	14684 Nov 12 14:04	27° ∡ ¹20′29	
evening max el	14683 Nov 29 10:52	14° る 58'09	22°42'22		14684 Nov 17 00:10	0°₹	
retrograde	14683 Dec 12 10:45	21° る 24'44		retrograde	14684 Nov 21 21:27	0° る 59'58	
evening set	14683 Dec 16 07:58	20° る 51'49		evening set	14684 Nov 24 12:38	0° る 43'39	
min. Earth dist.	14683 Dec 23 19:20	17° る 27'37	0.54737 AU		14684 Nov 27 01:12	30°₹ ҂	
inferior conj	14683 Dec 24 18:04	16° る 55'27	-5°59'46	inferior conj	14684 Dec 03 09:10	26° ⋠ 51′06	-5°31'25
minimum elong	14683 Dec 24 18:21	16° る 55'04	5°58'45	minimum elong	14684 Dec 03 01:04	27° ₮ 02'34	5°29'01
morning rise	14684 Jan 02 06:03	13° る 07'28		min. Earth dist.	14684 Dec 04 01:00	26° ∡ ¹28'39	0.54472 AU
direct	14684 Jan 05 08:43	12° る 45'17		morning rise	14684 Dec 11 13:51	22° х 59'41	
morning max el	14684 Jan 17 00:20	18° る 20'40	21°08'58	direct	14684 Dec 15 15:56	22° х 23'47	
asc. node	14684 Jan 21 02:45	22° る 54'59		morning max el	14684 Dec 28 15:37	28° ∡ ¹40'59	22°51'50
	14684 Jan 26 00:16	0° ≈			14684 Dec 29 23:31	0°ප	
morning set	14684 Feb 05 17:28	20°≈18'03		asc. node	14685 Jan 06 24:00	10°る20'05	
Č	14684 Feb 10 08:25	0° ₩			14685 Jan 17 18:56	0° ≈	
				morning set	14685 Jan 20 04:45	5° ≈ 03'09	
superior conj	14684 Feb 13 01:07	5°) 36′50	1°13'51	C			
minimum elong	14684 Feb 13 03:38	5°) 49′50	1°14'03	superior conj	14685 Jan 27 03:37	20°≈00'54	1°28'11
max. Earth dist.	14684 Feb 17 20:46	15° ¥ 20'47	1.35338 AU	minimum elong	14685 Jan 27 05:27	20°≈10'44	1°28'45
evening rise	14684 Feb 21 20:55	23° ¥ 02'27	1.50550110	max. Earth dist.	14685 Jan 30 13:05	27°≈10'56	1.33562 AU
desc. node	14684 Feb 22 17:30	24°) 38'18		man. Darm dige.	14685 Jan 31 21:52	0° ∀	1.55502110
dese. Hode	14684 Feb 25 16:22	0° Υ		evening rise	14685 Feb 04 03:26	6° ¥ 28'51	
	14684 Mar 15 19:45	0°8		desc. node	14685 Feb 08 14:03	14°) 55'49	
evening max el	14684 Mar 28 04:54	14° 8 41'20	26°26'06	desc. Hode	14685 Feb 17 07:49	0° Υ	
retrograde	14684 Apr 10 04:04	22° 8 03'22	20 20 00	evening max el	14685 Mar 10 18:20	28° Υ 15'56	27013112
evening set	14684 Apr 16 11:28	19° 8 31'23		evening max er	14685 Mar 12 15:27	0° 8	27 13 12
asc. node	14684 Apr 17 23:18	18° 8 10'25		retrograde	14685 Mar 24 06:49	5° 8 45'52	
	•	15° 8 19'05	0.66753 AU	•		3° 8 14'45	
min. Earth dist.	14684 Apr 20 13:27	13° 8 03'56	1°20'28	evening set	14685 Mar 30 22:22	30°RY	
inferior conj	14684 Apr 22 10:01		1°20'28 1°19'12	i. Dardh diad	14685 Apr 03 10:19	29° Y 35′08	0.65142 AII
minimum elong	14684 Apr 22 08:13	13° 8 09'26	1°19'12	min. Earth dist.	14685 Apr 03 19:36		0.65142 AU
morning rise	14684 Apr 28 05:57	7° 8 22'06		asc. node	14685 Apr 04 20:43	28° Y 25'58	0005101
direct	14684 May 01 08:36	6° 8 27'47	10027111	inferior conj	14685 Apr 06 04:30	26° Y 57'01	0°25'01
morning max el	14684 May 07 19:58	9° 8 53'41	18°26'11	minimum elong	14685 Apr 06 03:49	26° Y 58'55	0°24'23
desc. node	14684 May 20 19:31	27° 8 37'10		morning rise	14685 Apr 12 11:01	21° Y ′28'09	
	14684 May 22 08:06	0°II		direct	14685 Apr 15 04:06	20° Υ '49'10	15055105
morning set	14684 May 28 07:29	9° Ⅲ 25'11		morning max el	14685 Apr 21 11:52	24° Y ′05'59	17°57'37
	14684 Jun 10 09:56	0 \circ			14685 Apr 26 09:15	0° 8	
				desc. node	14685 May 07 16:17	17° 8 45'11	
superior conj	14684 Jun 13 02:15	4°9511'00		morning set	14685 May 09 09:16	20° 8 33'50	
minimum elong	14684 Jun 12 20:51	3°549'56			14685 May 15 03:37	Π \circ 0	
max. Earth dist.	14684 Jun 13 10:37	4° © 43'37	1.45914 AU			_	
evening rise	14684 Jun 28 22:48	28° 9 59'49		superior conj	14685 May 23 15:25	13° Ⅱ 36'59	
	14684 Jun 29 14:06	0 \circ Ω		minimum elong	14685 May 23 06:30	13° Ⅱ 01'40	
greatest brilliancy	14684 Jul 08 02:02	13° Ω 18'34	-0.8m	max. Earth dist.	14685 May 27 06:38		1.45638 AU
asc. node	14684 Jul 14 21:58	23° Ω 28'35			14685 Jun 03 03:02	0 \circ 60	
	14684 Jul 20 02:20	0° m)		evening rise	14685 Jun 08 16:36	8° 5 34'29	
evening max el	14684 Jul 20 23:32	0° Mp 54′52	18°49'52	greatest brilliancy	14685 Jun 22 13:28	29° © 32'21	-0.6m
retrograde	14684 Jul 27 15:37	4° TD 33'30			14685 Jun 22 21:02	0 ° Ω	
evening set	14684 Jul 30 23:59	3°Mp28'57		asc. node	14685 Jul 01 18:48	12° Ω 02'01	
	14684 Aug 03 17:42	30° ŖΩ		evening max el	14685 Jul 04 06:25	14° Ω 44'45	19°38'32
inferior conj	14684 Aug 05 13:26	27° Ω 46′22	2°45'57	retrograde	14685 Jul 11 13:42	18° Ω 51′05	
minimum elong	14684 Aug 05 15:21	27° Ω 40'21	2°44'58	evening set	14685 Jul 15 07:43	17° Ω 29'28	
min. Earth dist.	14684 Aug 07 07:51	25° Ω 33'14	0.66205 AU	inferior conj	14685 Jul 20 15:58	11° Ω 33'47	3°04'35
morning rise	14684 Aug 11 05:51	21° Q 21'09		minimum elong	14685 Jul 20 17:00	11° Ω 30′21	3°03'40
desc. node	14684 Aug 16 17:43	18° Ω 44'42		min. Earth dist.	14685 Jul 21 20:11	9° Ω 59'46	0.67600 AU
direct	14684 Aug 17 12:15	18° Ω 42'27		morning rise	14685 Jul 26 01:47	5° Ω 08'49	
morning max el	14684 Aug 30 12:59	26° Ω 26′17	26°31'33	direct	14685 Jul 31 22:14	2° Ω 35'25	
	14684 Sep 02 20:20	0° m)		desc. node	14685 Aug 03 15:10	3° £ 03′21	
	14684 Sep 24 02:32	0∘ ⊽		morning max el	14685 Aug 12 23:57	9° Ω 49'33	25°14'02
morning set	14684 Oct 05 09:40	19° ≙ 51'57			14685 Aug 28 23:36	0° m	
max. Earth dist.	14684 Oct 09 08:38	27° ≏ 30'06	1.34434 AU		14685 Sep 16 17:04	0∘ ⊽	
asc. node	14684 Oct 10 23:53	0°M45'40		morning set	14685 Sep 17 21:12	2° ≏ 05'08	
	14684 Oct 10 14:47	0° M.		max. Earth dist.	14685 Sep 21 10:43	8° ≏ 35'18	1.36504 AU

superior conj	14685 Sep 27 21:34	20° £ 59'51	0°00'25		14686 Sep 08 21:21	0∘ ⊽	
minimum elong	14685 Sep 27 21:32	20° ♀ 59'40	0°00'41		1.000 Sep 00 21.21	~	
behind sun begin	14685 Sep 27 15:08	20° ₽ 27'59		superior conj	14686 Sep 10 22:07	3° ≏ 47'28	-0°33'53
behind sun end	14685 Sep 28 03:56	21° ≏ 31'24		minimum elong	14686 Sep 11 00:33	3° Ω 58'55	0°33'30
asc. node	14685 Sep 27 20:29	20° ≏ 54'25		asc. node	14686 Sep 14 17:03	11° ≏ 01'30	
	14685 Oct 02 08:53	0°M		evening rise	14686 Sep 19 23:31	21° ≏ 18'33	
evening rise	14685 Oct 06 00:04	7°M24'38		C	14686 Sep 24 11:48	0° M	
C	14685 Oct 18 10:32	0° ∡ ¹		evening max el	14686 Oct 06 05:24	17° M 48'42	18°51'52
evening max el	14685 Oct 23 09:26	6° ∡ 04'41	19°48'05	retrograde	14686 Oct 14 19:03	22°M07'27	
desc. node	14685 Oct 30 11:23	10° ∡ ′41′05		evening set	14686 Oct 16 16:20	21°M55'42	
retrograde	14685 Nov 02 12:31	11° √ 07'51		desc. node	14686 Oct 17 08:48	21°M45'52	
evening set	14685 Nov 04 11:46	10° ∡ ′57'17		inferior conj	14686 Oct 24 22:06	17° M 36'20	-2°24'10
inferior conj	14685 Nov 13 06:47	6° ₹ ¹56'10	-4°09'59	minimum elong	14686 Oct 24 16:06	17° M 47'02	2°21'08
minimum elong	14685 Nov 12 20:59	7° ∡ 11'19	4°06'00	min. Earth dist.	14686 Oct 27 21:55	15°M28'45	0.56645 AU
min. Earth dist.	14685 Nov 15 09:09	5° ∡ ³38′20	0.55149 AU	morning rise	14686 Nov 01 12:50	12°M46'29	
morning rise	14685 Nov 21 04:39	2° ∡ '41'35		direct	14686 Nov 07 08:37	11°M25'23	
direct	14685 Nov 26 05:40	1° ∡ ¹45′29		morning max el	14686 Nov 21 12:52	18°M44'25	26°18'27
morning max el	14685 Dec 10 00:55	8° ∡ ³37'42	24°41'05		14686 Dec 01 00:07	0° ∡ 7	
asc. node	14685 Dec 24 21:10	28° ∡ ³36'35		asc. node	14686 Dec 11 18:14	17° ∡ ³30'39	
	14685 Dec 25 16:20	5°0			14686 Dec 18 02:04	5°0	
morning set	14686 Jan 04 16:43	19° る 46'27		morning set	14686 Dec 20 03:31	4° පි 22'05	
	14686 Jan 09 08:58	0° ≈					
				superior conj	14686 Dec 26 21:55	19° る 18'08	1°37'51
superior conj	14686 Jan 11 11:19	4° ≈ 37'10	1°36'05	minimum elong	14686 Dec 26 21:41	19° る 16'52	1°38'51
minimum elong	14686 Jan 11 12:10	4° ≈ 41'50	1°36'57	max. Earth dist.	14686 Dec 27 18:45	21° る 14'06	1.31414 AU
max. Earth dist.	14686 Jan 13 13:02	9° ≈ 08'32	1.32240 AU		14686 Dec 31 18:31	0°≈	
evening rise	14686 Jan 18 20:31	20° ≈ 20'57		evening rise	14687 Jan 02 21:17	4° ≈ 30'37	
	14686 Jan 23 18:12	0°)		desc. node	14687 Jan 13 07:25	24° ≈ 39'43	
desc. node	14686 Jan 26 10:42	4°) 58'40			14687 Jan 16 10:46	0°) €	
	14686 Feb 11 08:53	0 ° Υ		evening max el	14687 Feb 03 14:33	23° ¥ 56′55	27°23'38
evening max el	14686 Feb 21 06:20	11° Y 25'29	27°34'21		14687 Feb 12 01:37	0° Y	
retrograde	14686 Mar 07 02:35	18° Ƴ 53'32		retrograde	14687 Feb 17 13:57	1° Ƴ 16′36	
evening set	14686 Mar 13 22:45	16° Ƴ 30'42			14687 Feb 22 20:51	30°Ŗ ℋ	
min. Earth dist.	14686 Mar 17 17:15	13° Y 19′28	0.63206 AU	evening set	14687 Feb 24 09:38	29° ∺ 09'36	
inferior conj	14686 Mar 20 12:57		-0°42'56	min. Earth dist.	14687 Feb 28 04:50	26° ∺ 20'21	0.61053 AU
minimum elong	14686 Mar 20 14:21	10° Y ′26′52	0°42'26	inferior conj	14687 Mar 03 07:59	23°) 34′56	-2°02'25
asc. node	14686 Mar 22 18:11	8° Y 21'59		minimum elong	14687 Mar 03 12:24	23° ¥ 25′10	2°00'27
morning rise	14686 Mar 27 08:32	5° Y 16′50		asc. node	14687 Mar 09 15:40	19° ∺ 03'49	
direct	14686 Mar 29 17:31	4° Ƴ 49'44		morning rise	14687 Mar 10 18:20	18° ∺ 39'36	
morning max el	14686 Apr 05 05:35	8° Y 08'46	17°46'21	direct	14687 Mar 12 21:13	18° ∺ 20'43	
	14686 Apr 19 20:04	0°8		morning max el	14687 Mar 19 21:54	21° ¥ 52'40	17°53'12
morning set	14686 Apr 21 13:00	2° 8 56'25			14687 Mar 26 03:47	0° Υ	
desc. node	14686 Apr 24 12:58	80,90 9 08		morning set	14687 Apr 04 12:48	16° Y 15′00	
				desc. node	14687 Apr 11 09:34	28° Y 35′19	
superior conj	14686 May 03 23:02	23° 8 56'11			14687 Apr 12 04:45	0° 8	
minimum elong	14686 May 03 16:14	23° 8 28'15	1°09'42				
	14686 May 07 16:32	0°II		superior conj	14687 Apr 15 06:26	5° 8 21'10	
max. Earth dist.	14686 May 10 00:43	3° ∏ 44'59	1.44652 AU	minimum elong	14687 Apr 15 03:40	5° 8 09'11	0°30'46
evening rise	14686 May 19 03:28	17° Ⅱ 59'22		max. Earth dist.	14687 Apr 22 15:28	17° 8 45'02	1.43052 AU
	14686 May 27 01:56	0.02 0.02	20041141	evening rise	14687 Apr 28 23:31	27° 8 54'48	
evening max el	14686 Jun 17 07:28	28°536'13	20°41'41		14687 Apr 30 07:30	0° I I	
asc. node	14686 Jun 18 15:44	29° © 52'50		·	14687 May 20 19:15	0°©	21055155
. 1	14686 Jun 18 18:57	0°N		evening max el	14687 May 31 03:00	12°528'11	21°55'55
retrograde	14686 Jun 25 12:41	3° Ω 20′08		asc. node	14687 Jun 05 12:46	16°5547'16	
evening set	14686 Jun 29 17:05	1° Ω 41'17		retrograde	14687 Jun 09 10:47	17°955'34	
inferior coni	14686 Jul 01 11:45	30°R© 25°©33'51	3°10'34	evening set	14687 Jun 14 02:15	16°500'10	3°05'23
inferior conj	14686 Jul 04 23:01	25°533'51		inferior conj	14687 Jun 19 08:22	9°542'32	
minimum elong	14686 Jul 04 23:03	25°533'44	3°09'37	minimum elong	14687 Jun 19 07:28	9°545'41	3°04'17
min. Earth dist.	14686 Jul 05 13:26 14686 Jul 10 04:43	24° © 44'03 19° © 12'52	0.68536 AU	min. Earth dist.	14687 Jun 19 09:29	9° © 38'38 3° © 27'46	0.68989 AU
morning rise				morning rise	14687 Jun 24 12:30		
direct	14686 Jul 15 13:28	16°951'47		direct	14687 Jun 29 08:45	1°523'58	
desc. node	14686 Jul 21 12:33	19°506'51	22046114	desc. node	14687 Jul 08 09:50	6°930'01	22017120
morning max el	14686 Jul 26 10:26	23°521'36	23°46'14	morning max el	14687 Jul 08 22:47	7° © 01'59	22°17'28
	14686 Aug 01 07:21	0° Ω		morning act	14687 Jul 26 17:39	0°Ω 22°Ω42'11	
marning act	14686 Aug 22 08:06	0°M) 12°M-24'5°		morning set	14687 Aug 11 04:41	23° Ω 43'11	
morning set max. Earth dist.	14686 Aug 30 12:48 14686 Sep 03 08:42	13° Mp 24'58 20° Mp 01'50	1.38850 AU	max. Earth dist.	14687 Aug 15 00:43 14687 Aug 16 09:39	0° ዀ 2° ሙ 17'21	1.41199 AU
max. Latui Uist.	14000 Sep 03 08.42	20 HJUI 30	1.30030 AU	max. Latui Uist.	1400/ Aug 10 09.39	ا∠/۱۱۰۱ ک	1.71177 AU

max. Earth dist.

14689 Jul 11 05:36

29°517'01 1.44826 AU

14688 Jul 18 22:16

 $0^{\circ}\Omega$

	14689 Jul 11 16:28	$0^{\circ}\Omega$		desc. node	14690 May 29 00:55	3° Ⅱ 30'48	
				greatest brilliancy	14690 May 31 17:09	7° Ⅲ 33'07	-0.8m
superior conj	14689 Jul 16 01:07	6° Ω 57'39	-2°06'27	morning set	14690 Jun 09 09:35	20° Ⅲ 57'37	
minimum elong	14689 Jul 16 06:53	7° Ω 20′50	2°07'03		14690 Jun 15 05:07	0ಂತಾ	
evening rise	14689 Jul 29 17:16	29° Ω 33'04		max. Earth dist.	14690 Jun 23 23:15	13° © 38'39	1.45727 AU
	14689 Jul 29 23:39	0° ™					
asc. node	14689 Aug 05 06:47	10° m 34'53		superior conj	14690 Jun 25 15:44	16°9517'02	-2°13'40
evening max el	14689 Aug 16 14:35	26° Mp 40'45	18°07'04	minimum elong	14690 Jun 25 14:43	16° © 13'02	2°14'41
	14689 Aug 22 11:43	0∘ ⊽			14690 Jul 04 08:25	0 $^{\circ}$ Ω	
retrograde	14689 Aug 22 23:31	0° ჲ 01'17		evening rise	14690 Jul 10 21:47	10° Ω 29'40	
	14689 Aug 23 11:19	30°₽,™)		asc. node	14690 Jul 23 03:29	29° Ω 54'13	
evening set	14689 Aug 25 17:42	29° m 21'33			14690 Jul 23 05:01	0° m)	
inferior conj	14689 Aug 31 22:12	24° TD 03'08	1°45'05	evening max el	14690 Jul 31 04:11	10° Mp 20'26	18°29'25
minimum elong	14689 Sep 01 00:32	23° TQ 56'44	1°44'08	retrograde	14690 Aug 06 15:06	13° m) 48'27	
min. Earth dist.	14689 Sep 03 14:26	21° m 08'48	0.63204 AU	evening set	14690 Aug 09 18:12	12° m 53'26	
morning rise	14689 Sep 07 05:19	17° m 49'33		inferior conj	14690 Aug 15 12:08	7° Mp 19'24	2°28'34
desc. node	14689 Sep 07 01:16	17° Mp 57'16		minimum elong	14690 Aug 15 14:24	7° m) 12'35	2°27'33
direct	14689 Sep 13 21:03	15° Mp 19'37	27040110	min. Earth dist.	14690 Aug 17 14:52	4° Mp 47'27	0.65210 AU
morning max el	14689 Sep 27 20:15	23° m/20'30	27°49'18	morning rise	14690 Aug 21 09:23	0° m/56'35	
	14689 Oct 03 19:02	0° Մ		4 4-	14690 Aug 22 15:42	30°R€	
	14689 Oct 23 16:02 14689 Nov 01 10:25			desc. node	14690 Aug 24 22:46	28°Ω49'13 28°Ω18'14	
morning set asc. node	14689 Nov 01 10:25	16°M36'58 16°M28'44		direct	14690 Aug 27 20:30 14690 Sep 02 13:53	28°3718°14	
max. Earth dist.	14689 Nov 06 11:04	27°M04'30	1.32104 AU	morning max el	14690 Sep 02 13.33 14690 Sep 10 07:05	0 ly 6°Mo12'12	27007120
max. Earth dist.	14689 Nov 07 19:43	27 11004 30 0° √ 1	1.32104 AU	morning max er	14690 Sep 28 14:05	0° ⊽	27 0738
	14009 1100 07 19.43	0 🗴		morning set	14690 Oct 15 20:34	0 = 29° ₽ 52'27	
superior conj	14689 Nov 09 04:00	2° ∡ 55′21	1°07'37	morning set	14690 Oct 15 20:34 14690 Oct 15 22:07	0°M	
minimum elong	14689 Nov 09 01:41	2° × 42'46	1°08'08	asc. node	14690 Oct 19 05:27	6°M32'22	
evening rise	14689 Nov 15 23:46	17°×750'29	1 00 00	max. Earth dist.	14690 Oct 20 03:54	8°M26'13	1.33433 AU
evening noe	14689 Nov 21 20:58	0°る		man Bartir digt.	1.000 000 20 00.0.	0 110 20 13	1.55 .55 110
desc. node	14689 Dec 03 22:09	19° る 52'17		superior conj	14690 Oct 24 06:53	17°ML01'12	0°45'51
evening max el	14689 Dec 09 19:30		23°41'49	minimum elong	14690 Oct 24 04:48	16°M50'14	0°46'09
<i>8</i>	14689 Dec 13 22:07	0° ≈			14690 Oct 30 08:24	0° ∡ ⊓	
retrograde	14689 Dec 23 06:44	3° ≈ 17'10		evening rise	14690 Oct 31 10:20	2° ∡ 18′08	
evening set	14689 Dec 27 22:20	2° ≈ 30'11		C	14690 Nov 15 16:46	ರ°0	
C	14690 Jan 02 07:37	30°Rる		desc. node	14690 Nov 20 19:19	6° ට 06'48	
min. Earth dist.	14690 Jan 03 06:30	29° පි 27'01	0.55288 AU	evening max el	14690 Nov 21 07:07	6° ප 36'13	21°59'52
inferior conj	14690 Jan 05 00:38	28° る 24'46	-5°48'25	retrograde	14690 Dec 03 20:00	12° る 48'30	
minimum elong	14690 Jan 05 05:50	28° る 17'05	5°46'54	evening set	14690 Dec 07 03:19	12° る 24'13	
morning rise	14690 Jan 13 14:59	24° る 30'26		inferior conj	14690 Dec 15 18:53	8° る 31'33	-5°55'19
direct	14690 Jan 16 06:00	24° る 13'22		minimum elong	14690 Dec 15 15:09	8° පි 36'46	5°54'02
morning max el	14690 Jan 27 00:29	29° る 24'18	20°17'55	min. Earth dist.	14690 Dec 15 12:30	8° る 40'29	0.54514 AU
	14690 Jan 27 14:55	0° ≈		morning rise	14690 Dec 24 03:52	4° る 44'11	
asc. node	14690 Jan 28 07:56	0° ≈ 44'29		direct	14690 Dec 27 16:23	4° る 16'46	
morning set	14690 Feb 14 09:05	29° ≈ 11'10		morning max el	14691 Jan 08 22:44	10°る10'53	21°50'46
	14690 Feb 14 18:37	0° ∀		asc. node	14691 Jan 15 05:13	17° る 33'00	
					14691 Jan 22 20:07	0° ≈	
superior conj	14690 Feb 22 00:09	14°) (49'39	1°02'33	morning set	14691 Jan 29 19:13	13° ≈ 55'03	
minimum elong	14690 Feb 22 02:48	15°) €03'01	1°02'32				
max. Earth dist.	14690 Feb 27 15:02	25°) 51'06	1.36523 AU	superior conj	14691 Feb 05 22:33	29°≈03'15	1°20'43
desc. node	14690 Mar 01 23:05	0° Υ 13'58		minimum elong	14691 Feb 06 00:50	29°≈15'16	1°21'04
	14690 Mar 01 20:04	0°Υ 2° 0 05 412		P 4 F 4	14691 Feb 06 09:23	0°) {	1 24542 444
evening rise	14690 Mar 03 10:02	2° Υ 54'13		max. Earth dist.	14691 Feb 10 03:18	7°) 42'18	1.34543 AU
	14690 Mar 19 21:16	0°8	25050105	evening rise	14691 Feb 14 09:11	16°) €02'53 20°) €37'41	
evening max el	14690 Apr 07 21:32	24° ႘ 05'59 0° Ⅱ	25°50'05	desc. node	14691 Feb 16 19:39	20° π 3/41 0° Υ	
ratragrada	14690 Apr 15 13:33 14690 Apr 20 10:50	0 П 1°П19'10			14691 Feb 22 01:50 14691 Mar 14 09:07	0°8	
retrograde	14690 Apr 24 21:25	30°R 8		evening max el	14691 Mar 21 11:26	7° 8 50'37	26°48'52
asc. node	14690 Apr 26 04:27	29° 8 05'32		retrograde	14691 Mai 21 11.26 14691 Apr 03 17:01	15° 8 16'46	20 70 32
evening set	14690 Apr 26 12:16	29° 8 49'36		evening set	14691 Apr 10 04:07	13° 8 44'43	
min. Earth dist.	14690 Apr 30 17:39	24° 8 17'02	0.67498 AU	asc. node	14691 Apr 13 01:51	9° 8 59'26	
inferior conj	14690 May 02 06:53	22° 8 19'18	1°46'51	min. Earth dist.	14691 Apr 14 04:02	8° 8 46'22	0.66116 AU
minimum elong	14690 May 02 04:47	22° 8 25'57	1°45'27	inferior conj	14691 Apr 16 05:49	6° 8 20'30	0°58'27
morning rise	14690 May 07 21:55	16° 8 30'41	,	minimum elong	14691 Apr 16 04:23	6° 8 24'44	0°57'24
direct	14690 May 11 06:29	15° 8 26'16		morning rise	14691 Apr 22 05:54	0° 8 43'36	/ = -
morning max el	14690 May 17 23:42	19° 8 03'30	18°50'09	<i>5</i>	14691 Apr 24 08:12	30°R Y	
Ç	14690 May 26 15:35	0°Щ		direct	14691 Apr 25 04:22	29° Y ′56'06	
	•				•		

	14691 Apr 26 00:40	0°B		morning rise	14692 Apr 05 08:15	14° Ƴ 43'41	
morning max el	14691 May 01 13:10	3° B 16'39	18°11'51	direct	14692 Apr 07 21:49	14° Υ 10'03	
desc. node	14691 May 15 21:45	23° 8 28'46	10 1131	morning max el	14692 Apr 14 06:14	17° Y ′26'06	17°50'41
dese. node	14691 May 19 23:25	0°II		morning man vi	14692 Apr 23 11:58	0°8	1, 50 .1
morning set	14691 May 20 19:13	1° Ⅱ 19'27		morning set	14692 May 01 08:44	13° 8 02'08	
8	,			desc. node	14692 May 01 18:29	13° 8 43'02	
superior conj	14691 Jun 05 00:18	25° Ⅱ 26'48	-2°00'44		14692 May 11 14:41	0°II	
minimum elong	14691 Jun 04 16:36	24° Ⅱ 56'37	2°01'15		•		
max. Earth dist.	14691 Jun 06 19:32	28° Ⅱ 15'43	1.45891 AU	superior conj	14692 May 14 20:07	5° Ⅱ 12'28	-1°31'11
	14691 Jun 07 22:16	0 \circ \odot		minimum elong	14692 May 14 11:36	4° Ⅲ 38′18	1°31'08
evening rise	14691 Jun 21 02:11	20°527'47		max. Earth dist.	14692 May 19 15:43	12° Ⅱ 51'52	1.45305 AU
	14691 Jun 27 05:55	$0^{\circ}\Omega$		evening rise	14692 May 30 15:10	29° Ⅱ 53'46	
greatest brilliancy	14691 Jul 02 10:20	7° Ω 55'41	-0.7m		14692 May 30 16:48	0 \circ 50	
asc. node	14691 Jul 10 00:15	18° Ω 46'40		greatest brilliancy	14692 Jun 14 12:13	22° © 10'50	-0.6m
evening max el	14691 Jul 14 14:06	24° Ω 07'58	19°08'46		14692 Jun 20 02:21	0 $^{\circ}$ Ω	
retrograde	14691 Jul 21 11:33	27° Ω 56'34		asc. node	14692 Jun 25 21:09	7° Ω 03′29	
evening set	14691 Jul 25 00:03	26° Ω 44'41		evening max el	14692 Jun 26 18:34	7° Ω 58'49	20°03'44
inferior conj	14691 Jul 30 10:54	20° Ω 56′29	2°55'32	retrograde	14692 Jul 04 10:18	12° Ω 19'56	
minimum elong	14691 Jul 30 12:28	20° Ω 51'25	2°54'34	evening set	14692 Jul 08 08:44	10° Ω 50'43	
min. Earth dist.	14691 Jul 31 23:14	18° Ω 59'16	0.66853 AU	inferior conj	14692 Jul 13 15:39	4° Ω 49'40	
morning rise	14691 Aug 05 00:14	14° Ω 31′08		minimum elong	14692 Jul 13 16:15		3°07'39
direct	14691 Aug 11 02:47	11° Ω 53'44		min. Earth dist.	14692 Jul 14 13:50	3° Ω 34'24	0.68058 AU
desc. node	14691 Aug 11 20:16	11° Ω 55'45	26000121		14692 Jul 17 10:10	30°R≌	
morning max el	14691 Aug 23 18:14	19° Ω 26'04	26 00 31	morning rise	14692 Jul 18 23:26	28°\$26'11	
	14691 Sep 01 18:24	0° െ 0°ആ		direct	14692 Jul 24 14:58	25°957'37	
morning set	14691 Sep 21 15:58 14691 Sep 28 17:25	12° ₽ 30'07		desc. node	14692 Jul 28 17:41 14692 Aug 02 02:19	27° © 02'05 0° Ω	
max. Earth dist.	14691 Oct 02 11:00	12 ≥ 3007 19° ♀ 32'21	1.35269 AU	morning max el	14692 Aug 02 02:19	0 8 <i>t</i> 2°Ω53'52	24037126
asc. node	14691 Oct 06 02:04	26° £ 39'53	1.33209 AU	morning max er	14692 Aug 25 21:33	0°m)	24 37 20
asc. node	14691 Oct 07 17:46	0° ™		morning set	14692 Sep 09 20:58	24° Mg 21'05	
	14071 001 07 17.40	O IIO		morning set	14692 Sep 13 01:11	0° <u>ت</u>	
superior conj	14691 Oct 08 02:07	0°M42'23	0°18'29	max. Earth dist.	14692 Sep 13 10:56		1.37486 AU
minimum elong	14691 Oct 08 01:04	0°M37'02	0°18'42	man. Bartir digt.	1.032 Sep 13 10.00	v —v	1.57 .00110
evening rise	14691 Oct 15 18:28	16°M37'14		superior conj	14692 Sep 20 10:31	13° ჲ 51'30	-0°13'46
<i>8</i> 11	14691 Oct 22 12:11	0° ∡ ⊓		minimum elong	14692 Sep 20 11:26	13° ჲ 55'53	
evening max el	14691 Nov 03 04:55	17° ∡ °03′29	20°30'21	behind sun begin	14692 Sep 20 07:41	13° ≏ 37'45	
desc. node	14691 Nov 07 16:35	20° х 37'46		behind sun end	14692 Sep 20 15:10	14° ≙ 14'03	
retrograde	14691 Nov 14 06:35	22° ∡ ³33'54		asc. node	14692 Sep 21 22:40	16° ≏ 47'55	
evening set	14691 Nov 16 13:18	22° ∡ ¹20'58		evening rise	14692 Sep 28 21:54	0°ML42'11	
inferior conj	14691 Nov 25 10:53	18° ∡ °26′10	-5°01'56		14692 Sep 28 13:28	0° M	
minimum elong	14691 Nov 25 01:06	18° ∡ ¹40'24	4°58'37	evening max el	14692 Oct 15 17:03	28°M18'03	19°21'23
min. Earth dist.	14691 Nov 26 18:31	17° ∡ ¹40'11	0.54655 AU		14692 Oct 17 14:06	0° ∡ ¹	
morning rise	14691 Dec 03 12:37	14° ∡ °27'31		desc. node	14692 Oct 24 13:56	3° ∡ ′00′53	
direct	14691 Dec 08 01:03	13° ∡ ¹43'41		retrograde	14692 Oct 25 03:33	3° ∡ 01'52	
morning max el	14691 Dec 21 10:09	20° ∡ 15'55	23°38'29	evening set	14692 Oct 27 00:36	2° ∡ ′51′27	
	14691 Dec 29 14:10	0°号			14692 Nov 02 14:53	30°RM	
asc. node	14692 Jan 02 02:26	5°る21'20		inferior conj	14692 Nov 04 14:58	28°M42'56	
morning set	14692 Jan 14 07:02	28° る 39'58		minimum elong	14692 Nov 04 06:25	28°M56'56	
	14692 Jan 14 21:58	0° ≈		min. Earth dist.	14692 Nov 07 04:05 14692 Nov 12 09:59	27°M02'59 24°M14'08	0.55696 AU
aumariar aani	14602 Ion 21 02:22	1290022100	1022110	morning rise		23°M08'13	
superior conj minimum elong	14692 Jan 21 03:33 14692 Jan 21 05:00	13°≈33'00 13°≈40'50	1°32'18 1°33'00	direct	14692 Nov 17 19:21 14692 Dec 01 14:29	23°11L08'13 0° x 7	
max. Earth dist.	14692 Jan 23 23:15	13 ≈ 40 30 19° ≈ 36'03	1.32949 AU	morning max el	14692 Dec 01 19:45	0° ∡ 12′28	25°25'15
evening rise	14692 Jan 28 20:35	29°≈40'56	1.32)4) AO	asc. node	14692 Dec 18 23:34	23° x 54'45	23 23 13
e vening rise	14692 Jan 29 00:24	0° ∀		use. Houe	14692 Dec 22 06:21	0°る	
desc. node	14692 Feb 03 16:16	10° ¥ 49'39		morning set	14692 Dec 28 18:42	13°る20'29	
	14692 Feb 15 03:49	0°Υ					
evening max el	14692 Mar 03 00:40	21° Υ 16'39	27°25'43	superior conj	14693 Jan 04 12:43	28° ට 11'42	1°37'34
retrograde	14692 Mar 16 16:44	28° Υ 45'50		minimum elong	14693 Jan 04 13:06	28°る13'53	1°38'31
evening set	14692 Mar 23 10:53	26° Y 17'25		Č	14693 Jan 05 08:19	0° ≈	
min. Earth dist.	14692 Mar 27 06:43	22° Y ′50'35	0.64359 AU	max. Earth dist.	14693 Jan 06 02:04	1° ≈ 37'41	1.31823 AU
inferior conj	14692 Mar 29 20:27	20° Y ′06′25	-0°02'16	evening rise	14693 Jan 11 17:12	13° ≈ 40'44	
minimum elong	14692 Mar 29 20:31	20° Y 06'13	0°02'28		14693 Jan 20 03:09	0° ∀	
transit middle	14692 Mar 29 20:31	20° Y 06'13	0°02'28	desc. node	14693 Jan 20 12:56	0°) 43′59	
transit begin	14692 Mar 29 17:28	20° Y 14'24			14693 Feb 09 11:01	0° Y	
transit end	14692 Mar 29 23:35	19° Ƴ 58'04		evening max el	14693 Feb 13 11:12	4° Y 10′51	27°33'53
asc. node	14692 Mar 29 23:17	19° Ƴ 58'51		retrograde	14693 Feb 27 09:01	11° Y 36'05	

evening set	14693 Mar 06 05:56	9° Ƴ 18'40		min. Earth dist.	14694 Feb 20 07:08	18° ¥ 57'13	0.60108 AU
min. Earth dist.	14693 Mar 10 00:02	6°Υ18'10	0.62312 AU	inferior conj	14694 Feb 23 11:51	16° X 17'51	
inferior conj	14693 Mar 12 23:38	3°Υ28'29		minimum elong	14694 Feb 23 17:42	16° ¥ 05'38	
minimum elong	14693 Mar 13 02:13	3° Υ 22'21	1°14'16	morning rise	14694 Mar 03 04:38	10 X 03 38 11° X 31'31	2 3007
asc. node	14693 Mar 16 20:46	0°Υ06'50	1 1410	asc. node	14694 Mar 03 18:13	11° ∺ 23'47	
asc. node	14693 Mar 17 00:35	30°R ∺		direct	14694 Mar 05 05:40	11° X 15'10	
morning rise	14693 Mar 20 01:25	28° ¥ 22'39		morning max el	14694 Mar 12 14:34	14°) 55'54	18°01'52
direct	14693 Mar 22 07:32	27° ¥ 59'30		morning max ci	14694 Mar 22 23:35	0°Υ	10 01 32
anoct	14693 Mar 27 10:10	0°Υ		morning set	14694 Mar 28 04:14	9° Υ 27'21	
morning max el	14693 Mar 28 23:51	1°Υ22'25	17°47'01	desc. node	14694 Apr 05 11:41	24° Υ 39'16	
morning set	14693 Apr 13 21:44	25° Y '50'37	17 17 01	dese. Hode	1105171p1 05 11:11	2. 13710	
morning sec	14693 Apr 16 06:25	0°8		superior conj	14694 Apr 07 07:05	27° Y ′52'04	-0°14'35
desc. node	14693 Apr 18 15:06	4° 8 07'49		minimum elong	14694 Apr 07 05:50		0°14'45
desc. Hode	11075 11p1 10 15.00	1 007 12		behind sun begin	14694 Apr 07 02:48	27° Υ 33'11	0 11 15
superior conj	14693 Apr 25 13:47	15° 8 59'53	-0°53'17	behind sun end	14694 Apr 07 08:52	27° Υ 59'57	
minimum elong	14693 Apr 25 08:41	15° 8 38'29		bennia san ena	14694 Apr 08 12:13	0°8	
max. Earth dist.	14693 May 02 08:37	27° 8 07'54		max. Earth dist.	14694 Apr 14 20:50	10° 8 50'39	1.42228 AU
max. Darm dist.	14693 May 04 03:37	0°П	1.11030710	evening rise	14694 Apr 20 07:33	19° 8 43'05	1.12220110
evening rise	14693 May 10 04:12	9° ∏ 27'14		evening rise	14694 Apr 26 21:38	0°Ⅱ	
evening rise	14693 May 23 21:09	0°95			14694 May 18 08:03	0°©	
evening max el	14693 Jun 09 17:01	21°5549'44	21°12'03	evening max el	14694 May 23 10:29	5° 9 641'13	22°29'41
asc. node	14693 Jun 12 18:08	24°\$32'00	21 12 03	asc. node	14694 May 30 15:13	10°956'52	22 27 41
retrograde	14693 Jun 18 09:14	26°952'15		retrograde	14694 Jun 02 06:36	11°927'57	
evening set	14693 Jun 22 18:14	25°906'07		evening set	14694 Jun 07 02:48	9°926'12	
inferior conj	14693 Jun 27 23:56	18°953'51	3°09'41	inferior conj	14694 Jun 12 09:40	3°904'43	3°00'00
minimum elong	14693 Jun 27 23:33	18°955'09	3°08'40	minimum elong	14694 Jun 12 08:25	3°509'04	2°58'49
min. Earth dist.	14693 Jun 28 08:35	18°9523'42	0.68787 AU	min. Earth dist.	14694 Jun 12 05:18		0.69036 AU
morning rise	14693 Jul 03 04:39	12°935'08	0.00707110	mm. Bartii dist.	14694 Jun 14 16:18	30°R∏	0.07030710
direct	14693 Jul 08 07:59	10°521'09		morning rise	14694 Jun 17 13:54	26° II 52'45	
desc. node	14693 Jul 15 14:59	13°5541'59		direct	14694 Jun 22 04:45	24° I 57'08	
morning max el	14693 Jul 18 16:06	16°929'51	23°08'03	direct	14694 Jul 01 00:35	0°95	
morning max or	14693 Jul 29 19:34	0°Ω	25 00 05	morning max el	14694 Jul 01 06:04		21°41'09
	14693 Aug 18 21:49	0° m)		desc. node	14694 Jul 02 12:11	1°931'40	21 110)
morning set	14693 Aug 22 02:50	5° mp 15'29		dese. node	14694 Jul 23 13:16	0°Ω	
max. Earth dist.	14693 Aug 26 09:19	12° m) 28'26	1.39863 AU	morning set	14694 Aug 02 08:08	15° Ω 06'08	
man. Darm dist.	1.0931148 20 09.19	,	1.57005110	max. Earth dist.	14694 Aug 08 12:00	25°Ω04'00	1.42127 AU
superior conj	14693 Sep 03 04:14	26° m 19'55	-0°49'08		14694 Aug 11 11:05	0° m)	
minimum elong	14693 Sep 03 07:56	26° m 36'55	0°48'40			* ***	
g	14693 Sep 05 03:45	0° ⊽	0 10 10	superior conj	14694 Aug 16 02:48	7° m 57'30	-1°24'26
asc. node	14693 Sep 08 19:15	6° £ 53'06		minimum elong	14694 Aug 16 09:21	8° m/25'58	1°24'03
evening rise	14693 Sep 12 17:40	14° Ω 25'45		asc. node	14694 Aug 26 15:49	26° m 51'20	
	14693 Sep 21 04:55	0°M		evening rise	14694 Aug 27 01:58	27° m) 37'45	
evening max el	14693 Sep 28 17:53	10°M21'16	18°34'34		14694 Aug 28 09:05	0∘ ⊽	
retrograde	14693 Oct 06 18:28	14°M24'36		evening max el	14694 Sep 12 03:17	23° ഫ 03'58	18°08'42
evening set	14693 Oct 08 17:10	14°M11'04		retrograde	14694 Sep 19 04:00	26° ♀ 39'24	
desc. node	14693 Oct 11 11:19	13°M09'38		evening set	14694 Sep 21 09:18	26° ₽ 18'21	
inferior conj	14693 Oct 16 15:31	9°M42'52	-1°39'14	desc. node	14694 Sep 28 08:47	21° ≏ 39'48	
minimum elong	14693 Oct 16 11:32	9° ™ 50′28		inferior conj	14694 Sep 28 13:35	21° ≏ 29'07	-0°03'46
min. Earth dist.	14693 Oct 19 19:57	7° M 17'35		minimum elong	14694 Sep 28 13:28	21° ≏ 29'23	0°03'27
morning rise	14693 Oct 24 02:27	4°M36'38		transit middle	14694 Sep 28 13:28	21° ≏ 29'23	0°03'27
direct	14693 Oct 30 04:20	3°M04'02		transit begin	14694 Sep 28 10:10	21° ≏ 36'44	
morning max el	14693 Nov 13 10:52	10°M33'43	26°51'58	transit end	14694 Sep 28 16:46	21° ≏ 22'01	
C	14693 Nov 28 09:49	0° ∡ ¹		min. Earth dist.	14694 Oct 01 19:49	18° ≏ 36'11	0.59643 AU
asc. node	14693 Dec 05 20:35	13° ∡ *01'31		morning rise	14694 Oct 05 14:18	15° ≏ 49'32	
morning set	14693 Dec 13 04:30	27° ₹ '51'49		direct	14694 Oct 12 02:45	13° ≏ 50'21	
<i>2</i> ·	14693 Dec 14 04:17	0°ප		morning max el	14694 Oct 26 09:43	21° ♀ 37'57	27°44'48
					14694 Nov 02 17:48	0° M	
superior conj	14693 Dec 19 23:58	12° る 53'18	1°36'48		14694 Nov 21 10:10	0° ∡ 7	
minimum elong	14693 Dec 19 23:18	12° る 49'35	1°37'48	asc. node	14694 Nov 22 17:29	2° х 31′59	
max. Earth dist.	14693 Dec 20 09:06	13° る 44'23	1.31207 AU	morning set	14694 Nov 27 10:32	12° ∡ 08'17	
evening rise		27° ප 56'06	0	max. Earth dist.	14694 Dec 03 16:56	25° ∡ 48'27	1.31126 AU
<i>3</i>	14693 Dec 26 20:28	2/100000					
desc. node	14693 Dec 27 19:58	0° ≈		superior coni			1°30'06
desc. node	14693 Dec 27 19:58 14694 Jan 07 09:41	0° ≈ 20° ≈ 13'33		superior conj	14694 Dec 04 11:21	27° ∡ ³31'16	1°30'06 1°31'00
	14693 Dec 27 19:58 14694 Jan 07 09:41 14694 Jan 13 11:20	0°≈ 20°≈13'33 0°¥	27°08'31	superior conj minimum elong	14694 Dec 04 11:21 14694 Dec 04 09:47	27° ⊀ 31'16 27° ≮ 22'30	1°30'06 1°31'00
evening max el	14694 Jan 07 09:41 14694 Jan 13 11:20 14694 Jan 26 16:42	0°≈ 20°≈13'33 0°¥ 16°¥21'55	27°08'31	minimum elong	14694 Dec 04 11:21 14694 Dec 04 09:47 14694 Dec 05 13:57	27°♂31'16 27°♂22'30 0°♂	
	14693 Dec 27 19:58 14694 Jan 07 09:41 14694 Jan 13 11:20	0°≈ 20°≈13'33 0°¥	27°08'31		14694 Dec 04 11:21 14694 Dec 04 09:47	27° ⊀ 31'16 27° ≮ 22'30	

J	,		C	()/		,	
desc. node	14694 Dec 25 06:31	9° ≈ 08'01			14695 Nov 27 01:57	ე∘ჳ	
evening max el	14695 Jan 08 14:48	27°≈40'58	26°08'33	desc. node	14695 Dec 12 03:28	27° පි 14'48	
evening max er	14695 Jan 11 06:26	0°)	20 08 33	uese. Houe	14695 Dec 14 02:48	27 O1448 0°≈	
		4°) 45′27					24940102
retrograde	14695 Jan 22 13:45			evening max el	14695 Dec 21 04:36	8°≈09'50	24-40 02
evening set	14695 Jan 28 19:36	3°) 12′59		retrograde	14696 Jan 03 21:54	15°≈00'44	
min. Earth dist.	14695 Feb 02 04:06	0°) 35′46	0.57947 AU	evening set	14696 Jan 09 06:38	13° ≈ 57'15	
	14695 Feb 03 00:22	30° R ≈		min. Earth dist.	14696 Jan 14 16:26	11° ≈ 09′18	0.56100 AU
inferior conj	14695 Feb 05 05:25	28° ≈ 23'48	-4°05'26	inferior conj	14696 Jan 17 02:02	9° ≈ 38'56	
minimum elong	14695 Feb 05 14:06	28° ≈ 08'07	4°02'04	minimum elong	14696 Jan 17 10:15	9° ≈ 26'00	5°17'39
morning rise	14695 Feb 13 11:37	23° ≈ 58'49		morning rise	14696 Jan 25 15:59	5° ≈ 35'02	
direct	14695 Feb 15 11:54	23° ≈ 45'33		direct	14696 Jan 27 23:02	5° ≈ 20'43	
asc. node	14695 Feb 18 15:38	24° ≈ 19'57		asc. node	14696 Feb 05 13:02	8° ≈ 57'51	
morning max el	14695 Feb 23 22:26	27° ≈ 54'29	18°37'02	morning max el	14696 Feb 06 19:20	10° ≈ 06'45	19°34'28
	14695 Feb 25 20:51	0°) €			14696 Feb 19 23:26	0° ∀	
morning set	14695 Mar 11 23:00	23° ∺ 36′26		morning set	14696 Feb 24 01:59	8° ₩ 05'49	
· ·	14695 Mar 15 06:16	0° Y		Č			
				superior conj	14696 Mar 03 02:18	24°) €09'06	0°49'03
superior conj	14695 Mar 20 20:45	10° Ƴ 39'20	0°20'15	minimum elong	14696 Mar 03 04:49	24° ¥ 21'24	
minimum elong	14695 Mar 20 22:07	10° Y 45'39	0°19'56	mmmum viong	14696 Mar 06 02:51	0°Υ	0 .001
desc. node	14695 Mar 23 08:13	15° Υ 13'23	0 17 50	desc. node	14696 Mar 09 04:43	5°Υ46'28	
max. Earth dist.	14695 Mar 28 05:04	23° Y ′53'53	1.40065 AU	max. Earth dist.	14696 Mar 09 11:34	6°Υ17'57	1.37786 AU
max. Earth dist.	14695 Mar 31 18:41	0° 8	1.40003 AU	evening rise	14696 Mar 13 04:21	12° Υ 57'39	1.57780 AC
				evening rise			
evening rise	14695 Apr 01 07:38	0° 8 54'19			14696 Mar 23 09:51	0° B	
	14695 Apr 20 06:08	0°II	22051100		14696 Apr 14 07:19	0°II	25000116
evening max el	14695 May 06 01:04	19° Ⅱ 34'50	23°51'00	evening max el	14696 Apr 17 14:36	3° Ⅱ 28'44	25°09'16
retrograde	14695 May 17 01:01	26° Ⅱ 02'06		retrograde	14696 Apr 29 15:26	10° Ⅲ 28′06	
asc. node	14695 May 17 12:21	26° Ⅱ 01'07		asc. node	14696 May 03 09:36	9° Ⅱ 28'25	
evening set	14695 May 22 08:52	23° Ⅱ 46'47		evening set	14696 May 05 10:49	8° Ⅱ 02'21	
min. Earth dist.	14695 May 27 01:48	18° Ⅱ 17'28	0.68805 AU	min. Earth dist.	14696 May 09 19:57	3° Ⅱ 09'37	0.68106 AU
inferior conj	14695 May 27 18:59	17° Ⅱ 18'52	2°39'58	inferior conj	14696 May 11 01:54	1° Ⅲ 31'42	2°09'26
minimum elong	14695 May 27 17:05	17° Ⅱ 25'19	2°38'37	minimum elong	14696 May 10 23:45	1° Ⅱ 38'47	2°08'00
morning rise	14695 Jun 02 01:19	11° Ⅱ 15′05			14696 May 12 06:18	30° ₹ 8	
direct	14695 Jun 06 03:54	9° Ⅲ 39'37		morning rise	14696 May 16 13:01	25° 8 37'21	
morning max el	14695 Jun 14 02:00	14° Ⅱ 08′23	20°23'38	direct	14696 May 20 03:57	24° 8 22'01	
desc. node	14695 Jun 19 09:18	20° Ⅱ 12'57		morning max el	14696 May 27 05:25	28° 8 14'02	19°19'48
	14695 Jun 26 13:54	0∘ ©		Č	14696 May 28 21:52	\mathfrak{I}	
morning set	14695 Jul 12 16:48	24° © 05'07		desc. node	14696 Jun 05 06:19	9° Ⅱ 31'35	
Ü	14695 Jul 16 12:09	$0^{\circ}\Omega$		greatest brilliancy	14696 Jun 08 22:20	14° Ⅱ 51'18	-0.7m
max. Earth dist.	14695 Jul 21 21:51		1.44008 AU	8	14696 Jun 18 22:28	0° ©	VI,
max. Earth dist.	110/3 341 21 21.31	0 00000 10	1.11000710	morning set	14696 Jun 20 20:03	2°954'59	
superior conj	14695 Jul 28 02:31	18° Ω 36'56	-1°54'23	max. Earth dist.	14696 Jul 03 13:44		1.45304 AU
minimum elong	14695 Jul 28 09:53	19° Ω 07'22		max. Earth dist.	14070 341 03 13.44	22 341 30	1.43304710
minimum clong	14695 Aug 03 21:20	0° m)	1 3432	superior conj	14696 Jul 07 03:13	28°519'23	2011/53
evening rise	-	10° Mp 06'52			14696 Jul 07 06:35	28°932'45	
Č	14695 Aug 09 18:04	-		minimum elong			2 1243
asc. node	14695 Aug 13 12:24	16° Mp 38'48			14696 Jul 08 04:32	0°N	
	14695 Aug 21 16:39	0∘ ⊽		evening rise	14696 Jul 21 12:46	21° Ω 39'57	
evening max el	14695 Aug 26 17:06	6° 2 16'17	18°02'19		14696 Jul 26 13:54	0° m)	
retrograde	14695 Sep 02 04:47	9° △ 38'07		asc. node	14696 Jul 30 09:03	6° Mp 10'01	
evening set	14695 Sep 04 18:12	9° ≏ 05'57		evening max el	14696 Aug 09 07:37	19° M 47'49	18°14'21
inferior conj	14695 Sep 11 06:23	3° ≏ 57'16	1°11'21	retrograde	14696 Aug 15 16:16	23° m 09'59	
minimum elong	14695 Sep 11 08:17	ვ° ჲ 52'25	1°10'39	evening set	14696 Aug 18 14:13	22° m 23'54	
min. Earth dist.	14695 Sep 14 05:08	0° ჲ 58'00	0.61939 AU	inferior conj	14696 Aug 24 13:45	16° m 58'16	2°05'43
desc. node	14695 Sep 15 06:17	29° m 58'34		minimum elong	14696 Aug 24 16:09	16° Mp 51'22	2°04'43
	14695 Sep 15 05:39	30°R, Mp		min. Earth dist.	14696 Aug 27 00:18	14° m) 11'56	0.64099 AU
morning rise	14695 Sep 17 19:51	27° m 53'22		morning rise	14696 Aug 30 16:28	10° m 39'45	
direct	14695 Sep 24 12:07	25° m 32'43		desc. node	14696 Sep 01 03:48	9° m 37'54	
	14695 Oct 04 17:35	0∘ ⊽		direct	14696 Sep 06 06:40	8° Mp 05'26	
morning max el	14695 Oct 08 15:24	3° ₽ 30'37	27°58'31	morning max el	14696 Sep 20 01:20	16° Mp 04'31	27°35'15
- C	14695 Oct 28 08:08	0° M		Č	14696 Oct 01 13:13	0∘ <u>⊽</u>	
asc. node	14695 Nov 09 14:18	22° M 19'47			14696 Oct 20 02:18	0° M	
morning set	14695 Nov 11 10:50	26°M05'46		morning set	14696 Oct 25 02:58	9°M38'25	
	14695 Nov 13 07:50	0° ⊼		asc. node	14696 Oct 26 11:02	12°M18'53	
max. Earth dist.	14695 Nov 16 21:53	7° ∡ ¹42'00	1.31595 AU	max. Earth dist.	14696 Oct 29 20:13	19°M17'00	1.32607 AU
man. Darm uist.	17075 190V 10 21.55	, 🖍 🗝 00	1.515/5 AU	max. Larm dist.	17070 001 29 20.13	17 1101/00	1.52007 AU
superior conj						0.60M 1.6157	
superior conj	1/605 Nov. 10 21:02	12000000	191727	cuperior cont	1/1606 Nov 02 02:04	760111165	0.2002
minima1	14695 Nov 18 21:03	12° × 701'03	1°17'32	superior conj	14696 Nov 02 03:04	26°M16'57	0°59'05
minimum elong evening rise	14695 Nov 18 21:03 14695 Nov 18 18:53 14695 Nov 25 14:31	12° × 01'03 11° × 49'05 26° × 50'12	1°17'32 1°18'12	superior conj minimum elong	14696 Nov 02 03:04 14696 Nov 02 00:46 14696 Nov 03 20:14	26° IL 16'5 / 26° IL 04'36 0° ⊀	0°59'05 0°59'30

evening rise	14696 Nov 09 01:32	11° √ 19'48		evening rise	14697 Oct 24 11:20	25°M44'17	
<i>8</i> 21	14696 Nov 18 11:14	ලංප		<i>y</i>	14697 Oct 26 12:23	0° ∡ ¹	
desc. node	14696 Nov 28 00:34	14° る 16'38		evening max el	14697 Nov 13 05:04	28° ∡ 16'48	21°19'34
evening max el	14696 Dec 01 14:11	18° ろ 09'19	22°57'43	desc. node	14697 Nov 14 21:46	29° ₹ 50′20	
retrograde	14696 Dec 14 17:29	24° る 40'25			14697 Nov 15 02:21	ರ°ರ	
evening set	14696 Dec 18 19:35	24° る 04'04		retrograde	14697 Nov 25 04:39	4° ප 13'16	
min. Earth dist.	14696 Dec 25 23:27	20° る 45'53	0.54850 AU	evening set	14697 Nov 27 23:30	3° る 55'19	
inferior conj	14696 Dec 27 03:36	20° පි 05'42	-5°58'40	inferior conj	14697 Dec 06 19:04	0° ರ 03'11	-5°39'40
minimum elong	14696 Dec 27 05:17	20° පි 03'17	5°57'37	minimum elong	14697 Dec 06 11:54	0° ರ 13'16	5°37'36
morning rise	14697 Jan 04 16:26	16° ප 16'38			14697 Dec 06 21:19	30°R. ✓	
direct	14697 Jan 07 15:48	15° る 56'02		min. Earth dist.	14697 Dec 07 05:13	29° ∡ ¹48'52	0.54448 AU
morning max el	14697 Jan 19 02:05	21° පි 25'01	20°55'06	morning rise	14697 Dec 15 00:50	26° х 13′23	
asc. node	14697 Jan 22 10:24	25° る 04'07		direct	14697 Dec 18 23:19	25° ∡ ³39'53	
	14697 Jan 26 01:28	0° ≈			14697 Dec 29 16:00	ರ°0	
morning set	14697 Feb 07 10:13	22° ≈ 46'50		morning max el	14697 Dec 31 19:02	1° る 51'36	22°35'40
	14697 Feb 10 21:12	0° ∀		asc. node	14698 Jan 09 07:41	12° る 20'09	
					14698 Jan 19 06:11	0° ≈	
superior conj	14697 Feb 14 19:37	8° ₩ 10'11	1°11'05	morning set	14698 Jan 22 21:16	7° ≈ 31'42	
minimum elong	14697 Feb 14 22:12	8° ¥ 23′25	1°11'13	C			
max. Earth dist.	14697 Feb 19 20:24	18° ¥ 15′26	1.35633 AU	superior conj	14698 Jan 29 21:09	22° ≈ 31'47	1°26'24
evening rise	14697 Feb 23 18:53	25°) 45′21		minimum elong	14698 Jan 29 23:08	22° ≈ 42'16	1°26'56
desc. node	14697 Feb 24 01:16	26° ¥ 15'02			14698 Feb 02 10:34	0° ∀	
desc. Hode	14697 Feb 26 02:31	0°Υ		max. Earth dist.	14698 Feb 02 11:31	0° ₩ 04'53	1.33801 AU
	14697 Mar 16 21:19	0°8		evening rise	14698 Feb 06 23:36	9° ∺ 07'26	1.55001 710
evening max el	14697 Mar 31 04:11	17° 8 18'38	26°17'15	desc. node	14698 Feb 10 21:51	16°) 34'17	
retrograde	14697 Apr 13 01:00	24° 8 38'59	20 17 13	dese. Hode	14698 Feb 18 14:49	0° Υ	
evening set	14697 Apr 19 06:56	22° 8 07'19			14698 Mar 12 19:05	0°8	
asc. node	14697 Apr 20 06:57	21° 8 14'16		evening max el	14698 Mar 13 17:46	0° 8 55'58	27007140
min. Earth dist.	14697 Apr 23 09:42	17° 8 49'54	0.66961 AU	retrograde	14698 Mar 27 04:46	8° 8 25'30	27 0740
	14697 Apr 25 04:25	17 8 49 34	1°27'49	evening set		5° 8 53'57	
inferior conj	*	15° 8 44'44	1°26'31	C	14698 Apr 02 19:12	2° 8 09'29	0.65406 AU
minimum elong	14697 Apr 25 02:31	_	1-20-31	min. Earth dist.	14698 Apr 06 17:04	_	0.05400 AU
morning rise	14697 Apr 30 23:00	9° 8 55'17		asc. node	14698 Apr 07 04:22	1° 8 38'09	
direct	14697 May 04 03:07	8° 8 58'29	10021152		14698 Apr 08 15:02	30°₹ Υ	0024116
morning max el	14697 May 10 15:49	12° 8 26'58	18°31'52	inferior conj	14698 Apr 09 00:09	29° Y 34'09	0°34'16
desc. node	14697 May 23 03:13	29° 8 17'39		minimum elong	14698 Apr 08 23:14	29° Y 36'44	0°33'30
	14697 May 23 14:12	0°П		morning rise	14698 Apr 15 04:54	24°Υ03'05	
morning set	14697 May 31 14:38	12° Ⅱ 32'45		direct	14698 Apr 17 23:19	23° Y ′22′02	
	14697 Jun 11 17:59	0ංම		morning max el	14698 Apr 24 07:09	26° Y 39'34	18°00'44
					14698 Apr 27 06:31	0°8	
superior conj	14697 Jun 16 13:13	7° © 29'30		desc. node	14698 May 09 24:00	19° 8 23'06	
minimum elong	14697 Jun 16 08:52	7° © 12'33		morning set	14698 May 12 12:13	23° 8 29'09	
max. Earth dist.	14697 Jun 16 08:58		1.45892 AU		14698 May 16 12:10	Π °0	
	14697 Jun 30 21:38	0 \circ Ω				_	
evening rise	14697 Jul 02 06:45	2° Ω 10′53		superior conj	14698 May 27 00:42	16° ∏ 50'05	
greatest brilliancy	14697 Jul 10 13:50	15° Ω 15'55	-0.8m	minimum elong	14698 May 26 15:52	16° Ⅱ 15'17	
asc. node	14697 Jul 17 05:46	25° Ω 19'04		max. Earth dist.	14698 May 30 04:52		1.45727 AU
	14697 Jul 20 17:08	0° m)			14698 Jun 04 10:53	0 \circ	
evening max el	14697 Jul 23 19:52	3°m/31'22	18°44'00	evening rise	14698 Jun 12 02:55	11° © 50'33	
retrograde	14697 Jul 30 10:24	7° Mg 06'56			14698 Jun 24 01:12	0 \circ Ω	
evening set	14697 Aug 02 17:21	6° Mp 04'58		greatest brilliancy	14698 Jun 25 09:47	2° Ω 00'47	-0.7m
inferior conj	14697 Aug 08 07:52	0° Mp 24′34		asc. node	14698 Jul 04 02:35	13° Ω 58′05	
minimum elong	14697 Aug 08 09:53	0°Mp18'17	2°40'50	evening max el	14698 Jul 07 03:36	17° Ω 21′08	19°30'20
	14697 Aug 08 15:44	30° ₹ Ω		retrograde	14698 Jul 14 08:08	21° Ω 22'29	
min. Earth dist.	14697 Aug 10 04:28	28° Ω 06′08	0.65961 AU	evening set	14698 Jul 18 00:40	20° Ω 03′28	
morning rise	14697 Aug 14 01:27	23° Ω 59'39		inferior conj	14698 Jul 23 09:31	14° Ω 09'46	3°02'37
desc. node	14697 Aug 19 01:19	21° Ω 27′18		minimum elong	14698 Jul 23 10:41	14° Ω 05'53	3°01'40
direct	14697 Aug 20 09:09	21° Ω 20'43		min. Earth dist.	14698 Jul 24 15:51	12° Ω 29′26	0.67422 AU
morning max el	14697 Sep 02 12:46	29° Ω 07'59	26°41'33	morning rise	14698 Jul 28 20:10	7° Ω 44'35	
	14697 Sep 03 09:00	0° m)		direct	14698 Aug 03 18:18	5° Ω 09'47	
	14697 Sep 25 09:33	0∘ ⊽		desc. node	14698 Aug 05 22:46	5° Ω 28′02	
morning set	14697 Oct 08 07:57	22° ≏ 39'04		morning max el	14698 Aug 15 23:44	12° Ω 29′10	25°26'28
	14697 Oct 12 02:46	0° M			14698 Aug 30 02:34	0° m/y	
max. Earth dist.	14697 Oct 12 08:56	0°M30'40	1.34155 AU		14698 Sep 18 02:42	0∘ ⊽	
asc. node	14697 Oct 13 07:42	2°M24'41		morning set	14698 Sep 20 22:04	4° £ 59'12	
				max. Earth dist.	14698 Sep 24 12:04	11° ≏ 34'56	1.36174 AU
superior conj	14697 Oct 17 03:02	10° M ₊12'57	0°34'53	asc. node	14698 Sep 30 04:19	22° ჲ 33'26	
minimum elong	14697 Oct 17 01:17	10°ML03'51	0°35'07				
	,						

superior conj	14698 Sep 30 18:10	23° ≏ 42'23	0°05'20	superior conj	14699 Sep 13 20:51	6° £ 36'00	0028131
minimum elong	14698 Sep 30 17:49	23° 2 42'23	0°05'35	minimum elong	14699 Sep 13 20:51	6° £ 45'31	0°28'08
behind sun begin	14698 Sep 30 11:52	23° ⊆ 4041 23° ⊆ 10'57	0 03 33	asc. node	14699 Sep 17 00:52	12° £ 40'58	0 28 08
behind sun end	14698 Sep 30 23:47	24° ⊆ 10'28		evening rise	14699 Sep 22 18:22	23° £ 55'47	
ocimia sun cha	14698 Oct 03 20:57	0°M		evening rise	14699 Sep 25 21:04	0°M	
evening rise	14698 Oct 08 17:49	9°M58'43		evening max el	14699 Oct 09 03:04	20°M40'45	18°58'45
evening rise	14698 Oct 19 10:14	0° ⊼ 7		retrograde	14699 Oct 17 21:44	25°M05'36	10 30 13
evening max el	14698 Oct 26 09:02	9° × 704'17	19°58'20	evening set	14699 Oct 19 18:46	24°M54'18	
desc. node	14698 Nov 01 19:03	13° ∡ °30'07		desc. node	14699 Oct 19 16:25	24°M55'26	
retrograde	14698 Nov 05 17:56	14° ½ 14'19		inferior conj	14699 Oct 28 02:58	20°M37'48	-2°40'24
evening set	14698 Nov 07 18:39	14° х 03′22		minimum elong	14699 Oct 27 20:15	20°M49'30	
inferior conj	14698 Nov 16 14:46	10° ∡ 04'22	-4°24'39	min. Earth dist.	14699 Oct 31 00:27	18°M37'04	0.56384 AU
minimum elong	14698 Nov 16 04:45	10° ∡ 19'35	4°20'45	morning rise	14699 Nov 04 18:53	15°M53'36	
min. Earth dist.	14698 Nov 18 12:45	8° х 54'37	0.54995 AU	direct	14699 Nov 10 12:12	14°M36'36	
morning rise	14698 Nov 24 13:37	5° ∡ 54'25		morning max el	14699 Nov 24 15:34	21°M51'40	26°05'30
direct	14698 Nov 29 11:35	5° ∡ 101'34		C	14699 Dec 01 19:21	0° ∡ ¹	
morning max el	14698 Dec 13 04:29	11° ∡ ¹48'53	24°25'04	asc. node	14699 Dec 14 01:57	19° ∡ 18'33	
Ü	14698 Dec 26 21:52	0°ಕ			14699 Dec 19 13:54	o°る	
asc. node	14698 Dec 27 04:53	0° る 29'37		morning set	14699 Dec 22 20:18	6° る 52'09	
morning set	14699 Jan 07 09:13	22° る 15'10					
Č	14699 Jan 10 22:37	0° ≈		superior conj	14699 Dec 29 14:28	21° る 46'35	1°37'58
				minimum elong	14699 Dec 29 14:24	21° ප් 46'13	1°38'57
superior conj	14699 Jan 14 04:12	7° ≈ 06'12	1°35'16	max. Earth dist.	14699 Dec 30 15:32	24° る 05'56	1.31503 AU
minimum elong	14699 Jan 14 05:13	7° ≈ 11'44	1°36'06		14700 Jan 02 07:54	0° ≈	
max. Earth dist.	14699 Jan 16 10:25	12° ≈ 00'54	1.32409 AU	evening rise	14700 Jan 05 15:01	7° ≈ 03'06	
evening rise	14699 Jan 21 15:16	22° ≈ 55'51		desc. node	14700 Jan 15 15:10	26° ≈ 24'25	
3	14699 Jan 25 05:02	0°) €			14700 Jan 17 17:01	0° ∀	
desc. node	14699 Jan 28 18:28	6°) 39′29		evening max el	14700 Feb 06 15:09	26°) 48'15	27°27'28
	14699 Feb 12 08:05	$0^{\circ}\Upsilon$		Č	14700 Feb 10 08:46	$0^{\circ}\Upsilon$	
evening max el	14699 Feb 24 06:12	14° Ƴ 10'11	27°33'08	retrograde	14700 Feb 20 14:09	4° Υ 09'13	
retrograde	14699 Mar 10 01:33	21° Y ′38'34		evening set	14700 Feb 27 10:24	1° Y 59'20	
evening set	14699 Mar 16 21:17	19° Ƴ 14'11		Č	14700 Mar 02 04:10	30° ₹	
min. Earth dist.	14699 Mar 20 16:06	15° Ƴ 59'01	0.63512 AU	min. Earth dist.	14700 Mar 03 05:10	29°) €07'30	0.61382 AU
inferior conj	14699 Mar 23 10:18	13° Y 10'49	-0°31'49	inferior conj	14700 Mar 06 07:35	26°) €20'32	
minimum elong	14699 Mar 23 11:18	13° Y ′08'13	0°31'32	minimum elong	14700 Mar 06 11:29	26°) 11'42	
asc. node	14699 Mar 25 01:50	11° Y ′32'24		asc. node	14700 Mar 11 23:18	22°) 03'54	
morning rise	14699 Mar 30 03:47	7° Y ′54'40		morning rise	14700 Mar 13 15:40	21°) 22'22	
direct	14699 Apr 01 13:54	7° Y °25'58		direct	14700 Mar 15 19:22	21°) 02'27	
morning max el	14699 Apr 08 00:45	10° Ƴ 43'55	17°46'52	morning max el	14700 Mar 22 17:30	24°) 31'35	17°51'00
Č	14699 Apr 21 04:25	0°B		C	14700 Mar 27 05:03	$0^{\circ}\Upsilon$	
morning set	14699 Apr 24 12:24	5° 8 41'43		morning set	14700 Apr 07 09:36	18° Ƴ 53'28	
desc. node	14699 Apr 26 20:40	9° 8 42'13		desc. node	14700 Apr 13 17:16	0° 8 10'40	
	r				14700 Apr 13 14:51	0°8	
superior conj	14699 May 07 04:55	26° 8 59'30	-1°15'37		1	_	
minimum elong	14699 May 06 21:34	26° 8 29'33		superior conj	14700 Apr 18 08:48	8° 8 15'11	-0°36'37
Č	14699 May 09 01:22	0°II		minimum elong	14700 Apr 18 05:26	8° 8 00'45	
max. Earth dist.	14699 May 12 23:35	6° Ⅱ 17'23	1.44841 AU	max. Earth dist.	14700 Apr 25 15:12	20° 8 23'13	
evening rise	14699 May 22 13:43	21° Ⅱ 14′03			14700 May 01 15:27	0°Ⅱ	
S	14699 May 28 08:17	0° ©		evening rise	14700 May 02 07:35	1° Ⅱ 03'16	
	14699 Jun 19 01:38	$0^{\circ}\Omega$		Č	14700 May 21 21:05	0ಂತಾ	
evening max el	14699 Jun 20 05:33	1° Ω 12'36	20°31'29	evening max el	14700 Jun 03 01:47	15° © 04'23	21°44'17
asc. node	14699 Jun 20 23:29	1° Ω 56′09		asc. node	14700 Jun 07 20:30	19° © 00'14	
retrograde	14699 Jun 28 07:02	5° Ω 50'11		retrograde	14700 Jun 12 05:24	20°525'11	
evening set	14699 Jul 02 09:53	4° Ω 13'47		evening set	14700 Jun 16 19:12	18° © 32'02	
<i>3</i>	14699 Jul 06 06:58	30°Rூ		inferior conj	14700 Jun 22 01:07	12°9515'42	3°06'50
inferior conj	14699 Jul 07 16:00	28°508'03	3°10'25	minimum elong	14700 Jun 22 00:22	12° © 18'22	3°05'46
minimum elong	14699 Jul 07 16:11	28° © 07'25	3°09'27	min. Earth dist.	14700 Jun 22 04:09	12°505'08	0.68954 AU
min. Earth dist.	14699 Jul 08 08:25	27° © 11'35	0.68428 AU	morning rise	14700 Jun 27 05:20	5°959'57	
morning rise	14699 Jul 12 22:10	21°9546'25		direct	14700 Jul 02 03:26	3°953'29	
direct	14699 Jul 18 08:44	19°523'13		desc. node	14700 Jul 10 17:23	8° 5 29'46	
desc. node	14699 Jul 23 20:08	21°517'16		morning max el	14700 Jul 11 22:06	9° © 39'21	22°30'26
morning max el	14699 Jul 29 10:08	25°959'57	23°59'37		14700 Jul 27 21:58	0°Ω	50 20
morning max or	14699 Aug 02 02:11	0° Ω	_5 5/5/	morning set	14700 Aug 14 12:22	26° Ω 54'57	
	14699 Aug 23 15:11	0°m/		morning set	14700 Aug 14 12:22 14700 Aug 16 09:35	0° my	
morning set	14699 Sep 02 16:51	16° Mp 27'22		max. Earth dist.	14700 Aug 10 05:55	5°Mp05'01	1.40863 AU
max. Earth dist.	14699 Sep 06 10:27	22° m 57'24	1.38498 AU	man. Darur dist.	, 00 ring 17 1013	5 mg 05 01	15005 110
man. Darm dist.	14699 Sep 10 08:05	ე∘ <u>ი</u>	1.50 170 AU	superior conj	14700 Aug 27 06:58	18° m 44'23	-1°04'21
	1.055 Dep 10 00.05	~ _		superior conj		10 mg (T 23	

minimum elong	14700 Aug 27 11:58	19° Tp 06'46	1°03'53	max. Earth dist.	14701 Aug 01 16:27	18° Ω 04'34	1.42983 AU
	14700 Sep 02 10:23	0∘ ⊽					
asc. node	14700 Sep 03 21:25	2° ≏ 44'00		superior conj	14701 Aug 08 20:06	29° Ω 57'28	
evening rise	14700 Sep 06 09:47	7° Ω 27'47		minimum elong	14701 Aug 09 03:25	0° Mp 28'36	1°37'58
	14700 Sep 19 16:34	0°M	10020150		14701 Aug 08 20:42	0° Mp	
evening max el	14700 Sep 22 08:01	3°M02'00	18°20'59	evening rise	14701 Aug 20 11:50	20° Mp 23'28	
retrograde	14700 Sep 29 21:06	6°M51'57 6°M35'40		asc. node	14701 Aug 21 18:00	22° ™ 38'29 0° ₽	
evening set desc. node	14700 Oct 01 22:18 14700 Oct 06 13:50	4°M15'13		evening max el	14701 Aug 25 21:40 14701 Sep 05 19:43	0 <u>≈</u> 15° ≏ 58'31	18°03'39
inferior conj	14700 Oct 00 13:50	1°M57'59	-0°56'32	retrograde	14701 Sep 12 13:50	19° £ 26'52	18 03 39
minimum elong	14700 Oct 09 10:43	2°M02'21	0°55'13	evening set	14701 Sep 12 13:30	19° ⊆ 01'37	
g	14700 Oct 11 22:27	30°R Ω	0 00 10	inferior conj	14701 Sep 21 19:25	14° ⊆ 03'49	0°30'39
min. Earth dist.	14700 Oct 12 19:16	29° ≏ 18'46	0.58360 AU	minimum elong	14701 Sep 21 20:23	14° ≏ 01'33	0°30'27
morning rise	14700 Oct 16 19:41	26° ჲ 36'39		desc. node	14701 Sep 23 11:17	12° ≏ 28'56	
direct	14700 Oct 23 02:43	24° ≏ 52'49		min. Earth dist.	14701 Sep 24 23:17	11° ≏ 05'27	0.60616 AU
	14700 Nov 03 15:16	0° M		morning rise	14701 Sep 28 15:20	8° 亞 12'18	
morning max el	14700 Nov 06 10:03	2° ™ 30′17	27°19'06	direct	14701 Oct 05 05:59	6° ჲ 03'12	
	14700 Nov 26 06:41	0° ∡		morning max el	14701 Oct 19 12:21	13° ≏ 56'57	27°55'28
asc. node	14700 Nov 30 22:55	8° ∡ ³36'39			14701 Nov 01 10:20	0° M	
morning set	14700 Dec 07 04:44	21° ∡ 18′02		asc. node	14701 Nov 17 19:48	28° ™ 15'57	
	14700 Dec 11 04:33	0°₹			14701 Nov 18 16:38	0° ∡ ¹	
	14700 D 14 01 50	(0 = 23711 (1024141	morning set	14701 Nov 21 08:40	5° 🗷 28'14	1 21257 ATT
superior conj minimum elong	14700 Dec 14 01:59 14700 Dec 14 00:54	6°る27'16 6°る21'15	1°34'41 1°35'39	max. Earth dist.	14701 Nov 27 06:44	18° ∡ 15'31	1.31257 AU
max. Earth dist.	14700 Dec 14 00:34 14700 Dec 13 23:33	6° る 13'41	1.31113 AU	superior conj	14701 Nov 28 12:56	21° ∡ 103'17	1°25'31
evening rise	14700 Dec 19 29:33	21°る23'07	1.51115710	minimum elong	14701 Nov 28 11:04	20° ×7 52'53	1°26'18
e vennig 1150	14700 Dec 25 00:03	0° ≈		mmmum vieng	14701 Dec 02 13:24	0°ਰ	. 2010
desc. node	14701 Jan 02 11:57	15° ≈ 40'38		evening rise	14701 Dec 05 05:33	5°₹51'04	
	14701 Jan 12 02:24	0° ∀			14701 Dec 17 16:55	0° ≈	
evening max el	14701 Jan 19 17:42	8°) 37′32	26°46'59	desc. node	14701 Dec 20 08:50	4° ≈ 17'28	
retrograde	14701 Feb 02 17:14	15°) (48′46		evening max el	14702 Jan 01 11:58	19° ≈ 34′07	25°33'36
evening set	14701 Feb 09 07:06	14° ∺ 00'33		retrograde	14702 Jan 15 09:24	26° ≈ 34'04	
min. Earth dist.	14701 Feb 13 07:34		0.59169 AU	evening set	14702 Jan 21 07:31	25°≈13'33	
inferior conj	14701 Feb 16 12:14	8°) € 52'32		min. Earth dist.	14702 Jan 26 00:32	22°≈34'02	0.57105 AU
minimum elong	14701 Feb 16 19:29	8° 	3°12'44	inferior conj	14702 Jan 28 21:03	20°≈37'56	
morning rise direct	14701 Feb 24 11:09 14701 Feb 26 11:20	4° ★ 15'22 4° ★ 00'43		minimum elong morning rise	14702 Jan 29 06:09 14702 Feb 06 07:35	20°≈22'28 16°≈22'38	4-30-39
asc. node	14701 Feb 26 20:45	4° ∺ 01'18		direct	14702 Feb 08 09:30	16°≈09'34	
morning max el	14701 Mar 06 05:49	7° ¥ 51'46	18°14'20	asc. node	14702 Feb 13 18:10	17°≈42'23	
morning man er	14701 Mar 20 10:38	0°Υ	10 11.20	morning max el	14702 Feb 17 09:41	20°≈33'14	18°58'40
morning set	14701 Mar 21 21:53	2° Y '45'46		Č	14702 Feb 24 13:56	0° ∀	
-				morning set	14702 Mar 05 20:35	17° ¥ 05′01	
superior conj	14701 Mar 31 11:20	20° Y 32'40	0°00'51		14702 Mar 12 10:31	0° Y	
minimum elong	14701 Mar 31 11:23	20° Y 32'54	0°00'35				
behind sun begin	14701 Mar 31 03:55	19° Y ′59′08		superior conj	14702 Mar 14 08:23	3° Y 40′16	
behind sun end	14701 Mar 31 18:51	21° Y ′06'34		minimum elong	14702 Mar 14 10:24	3° Y ′49'48	0°32'57
desc. node	14701 Mar 31 13:50	20° Y 43'57		desc. node	14702 Mar 18 10:23	11°Υ18'28	1 20002 411
may Forth dist	14701 Apr 05 19:49	0°8	1.41332 AU	max. Earth dist.	14702 Mar 21 08:31 14702 Mar 25 04:32	16° Υ 35'13 23° Υ 16'27	1.39092 AU
max. Earth dist. evening rise	14701 Apr 08 01:52 14701 Apr 12 19:24	11° 8 41'57	1.41332 AU	evening rise	14702 Mar 29 04:53	0° 8	
evening rise	14701 Apr 12 19:24 14701 Apr 24 13:58	0° Ⅱ			14702 Mai 29 04.33	0°II	
evening max el	14701 May 16 17:37	28° ∏ 56'08	23°04'09	evening max el	14702 Apr 29 07:23	12° ∏ 49'31	24°25'02
evening man er	14701 May 17 20:00	0.2 2.2	25 0.07	retrograde	14702 May 10 18:42	19° Ⅲ 32'30	2.2002
asc. node	14701 May 25 17:36	4° 9 53'12		asc. node	14702 May 12 14:48	19° Ⅱ 17'49	
retrograde	14701 May 27 01:41	5° 5 01'09		evening set	14702 May 16 07:25	17° Ⅱ 12'13	
evening set	14701 Jun 01 02:54	2° © 53'01		min. Earth dist.	14702 May 20 20:48	11° Ⅲ 58′25	0.68560 AU
	14701 Jun 03 19:44	30°Ŗ Ⅱ		inferior conj	14702 May 21 19:26	10° Ⅱ 42'19	2°28'19
inferior conj	14701 Jun 06 10:54	26° Ⅲ 28'17		minimum elong	14702 May 21 17:23	10° Ⅱ 49'14	2°26'55
minimum elong	14701 Jun 06 09:21	26° Ⅲ 33'39		morning rise	14702 May 27 03:28	4° Ⅱ 42'17	
min. Earth dist.	14701 Jun 06 00:59		0.68994 AU	direct	14702 May 31 00:54	3° Ⅱ 15'38	1005.425
morning rise	14701 Jun 11 15:43	20° Ⅱ 19'47		morning max el	14702 Jun 07 13:31	7° Ⅱ 27'43	19°54'35
direct	14701 Jun 16 01:12	18° Ⅱ 32'54	21906149	desc. node	14702 Jun 14 11:39	15° ∏ 41'56 0° ©	
morning max el desc. node	14701 Jun 24 14:27 14701 Jun 27 14:33	23° П 28'06 26° П 43'21	21°06'48	morning set	14702 Jun 24 11:40 14702 Jul 04 11:36	0°ഇ 15° ഇ 08'29	
desc. Houe	14701 Jun 30 07:21	20 П 43 21		morning set	14702 Jul 04 11.36 14702 Jul 14 00:40	13 30 8 29 0° Ω	
	14701 Jul 21 05:27	0°N		max. Earth dist.	14702 Jul 15 04:28	1° Ω 50'00	1.44633 AU
morning set	14701 Jul 25 07:52	6° Ω 20'56					
-							

						_	
superior conj	14702 Jul 20 09:34	10° Ω 10'58		morning set	14703 Jun 13 19:05	24° Ⅱ 12'28	
minimum elong	14702 Jul 20 15:56	10° Ω 36'44	2°04'16		14703 Jun 17 12:46	0 \circ	
	14702 Aug 01 08:09	0° m)		max. Earth dist.	14703 Jun 27 21:51	16° © 09'34	1.45643 AU
evening rise	14702 Aug 02 19:24	2° Mp 29'42					
asc. node	14702 Aug 08 14:37	12° m 19'38		superior conj	14703 Jun 30 02:31	19° © 35'58	-2°13'52
evening max el	14702 Aug 20 10:15	29° m 20'01	18°05'20	minimum elong	14703 Jun 30 02:43	19° © 36'46	2°14'51
	14702 Aug 21 03:12	0∘ ⊽			14703 Jul 06 16:28	$0^{\circ}\Omega$	
retrograde	14702 Aug 26 19:36	2° ≏ 40'24		evening rise	14703 Jul 15 03:42	13° Ω 36′16	
evening set	14702 Aug 29 12:31	2° ჲ 02'43			14703 Jul 25 08:42	0° m y	
	14702 Sep 01 13:09	30°R, Mp		asc. node	14703 Jul 26 11:17	1° m 42'29	
inferior conj	14702 Sep 04 18:54	26° Mp 46'54	1°36'48	evening max el	14703 Aug 04 00:13	12° m 58'11	18°24'58
minimum elong	14702 Sep 04 21:10	26° Mp 40'49	1°35'55	retrograde	14703 Aug 10 10:12	16° m 24'08	
min. Earth dist.	14702 Sep 07 12:59	23° m 50'38	0.62879 AU	evening set	14703 Aug 13 12:00	15° m 31'25	
desc. node	14702 Sep 10 08:49	21°Mp12'14		inferior conj	14703 Aug 19 07:16	9° m 59'31	2°23'04
morning rise	14702 Sep 11 03:38	20° m 35'35		minimum elong	14703 Aug 19 09:36	9° m 52'36	2°22'03
direct	14702 Sep 17 19:45	18° m 07'39		min. Earth dist.	14703 Aug 21 12:03	7° m 23'30	0.64936 AU
morning max el	14702 Oct 01 20:07	26° Mp 08'16	27°52'50	morning rise	14703 Aug 25 05:53	3° m 37'41	
Ü	14702 Oct 05 10:25	0∘ <u>⊽</u>		desc. node	14703 Aug 28 06:20	1° m)44'17	
	14702 Oct 26 00:21	0°M		direct	14703 Aug 31 17:58	1° m)00'08	
asc. node	14702 Nov 04 16:34	18°M09'21		morning max el	14703 Sep 14 06:44	8° m) 55'31	27°15'39
morning set	14702 Nov 05 05:50	19°M16'17			14703 Sep 30 18:09	0∘ ⊽	2, 1009
morning sec	14702 Nov 10 08:52	0° ⊼			14703 Oct 18 09:16	0° M	
max. Earth dist.	14702 Nov 10 09:05	0° ∡ '01'11	1.31953 AU	morning set	14703 Oct 18 05:10	2°M36'10	
max. Lattii dist.	14/02 100 10 07.03	0 × 01 11	1.51755 AO	asc. node	14703 Oct 19 17:30	8°M11'59	
superior conj	14702 Nov 12 21:21	5° ∡ ¹28'18	1°10'27	max. Earth dist.	14703 Oct 22 13:17 14703 Oct 24 03:23	11°M26'01	1.33203 AU
minimum elong	14702 Nov 12 21:21 14702 Nov 12 19:04	5° ₹ 15'47	1°10'27 1°10'59	max. Earth dist.	14703 OCt 24 03.23	11 1162001	1.33203 AO
_			1 10 39	aumariar aani	14702 Oct. 29, 01:06	100 m 2650	0940122
evening rise	14702 Nov 19 16:22	20° メ 21'20 0°る		superior conj	14703 Oct 28 01:06	19°M36'50	0°49'32
	14702 Nov 24 07:04			minimum elong	14703 Oct 27 22:57	19°M25'23	0°49'52
desc. node	14702 Dec 07 05:51	21° ろ 59'28	22057111		14703 Nov 01 21:05	0° द्र ⁷	
evening max el	14702 Dec 13 23:10	29° る 47'23	23°5/11	evening rise	14703 Nov 04 03:06	4° ∡ ¹49'32	
	14702 Dec 14 04:28	0° ≈			14703 Nov 17 14:00	0°る	
retrograde	14702 Dec 27 12:23	6°≈31'18		desc. node	14703 Nov 24 02:58	8° る 27'01	
evening set	14703 Jan 01 08:37	5° ≈ 40'16		evening max el	14703 Nov 25 09:56	9° ප් 46'11	22°14'34
min. Earth dist.	14703 Jan 07 10:33		0.55479 AU	retrograde	14703 Dec 08 02:51	16° පි 03'38	
inferior conj	14703 Jan 09 09:01	1° ≈ 31'55		evening set	14703 Dec 11 15:02	15° පි 36'31	
minimum elong	14703 Jan 09 15:13	1° ≈ 22'37	5°40'41	min. Earth dist.	14703 Dec 19 16:35	12° ろ 00'01	0.54574 AU
	14703 Jan 12 00:07	30°₹₹		inferior conj	14703 Dec 20 04:46	11° る 42'57	
morning rise	14703 Jan 17 23:34	27° る 35'13		minimum elong	14703 Dec 20 02:26	11° る 46'13	5°57'06
direct	14703 Jan 20 12:10	27° る 19'02		morning rise	14703 Dec 28 14:52	7° る 55'44	
	14703 Jan 28 04:12	0° ≈		direct	14703 Dec 31 23:55	7° る 30'15	
morning max el	14703 Jan 31 00:53	2° ≈ 23'34	20°05'53	morning max el	14704 Jan 13 01:12	13° る 17'50	21°35'45
asc. node	14703 Jan 31 15:34	3° ≈ 00'01		asc. node	14704 Jan 18 12:54	19° る 38'02	
	14703 Feb 17 06:25	0° ∀			14704 Jan 25 03:24	0° ≈	
morning set	14703 Feb 18 02:08	1°) 40′13		morning set	14704 Feb 02 11:49	16° ≈ 23'38	
					14704 Feb 08 22:21	0° ∀	
superior conj	14703 Feb 25 19:25	17° ¥ 24'38	0°59'12				
minimum elong	14703 Feb 25 22:03	17°) € 37′52	0°59'08	superior conj	14704 Feb 09 16:33	1° ∺ 35′12	1°18'23
max. Earth dist.	14703 Mar 03 15:08	28°) (44′29	1.36845 AU	minimum elong	14704 Feb 09 18:56	1°) 47′38	1°18'41
	14703 Mar 04 07:13	0° Y		max. Earth dist.	14704 Feb 14 02:31	10° ∺ 37′24	1.34815 AU
desc. node	14703 Mar 05 06:56	1° Y 50'16		evening rise	14704 Feb 18 06:18	18° ¥ 43'45	
evening rise	14703 Mar 07 09:18	5° Ƴ 40'16		desc. node	14704 Feb 20 03:28	22° 升 15′24	
	14703 Mar 22 02:34	$0^{\circ}B$			14704 Feb 24 10:53	0° Y	
evening max el	14703 Apr 11 20:59	26° 8 43'01	25°39'57		14704 Mar 15 05:55	9° 8	
	14703 Apr 15 13:24	$\Pi^{\circ}0$		evening max el	14704 Mar 24 10:53	10° 8 29'36	26°41'21
retrograde	14703 Apr 24 07:15	3° Ⅲ 52'54		retrograde	14704 Apr 06 14:17	17° 8 54'22	
asc. node	14703 Apr 29 12:05	2° Ⅱ 01'42		evening set	14704 Apr 13 00:09	15° 8 22'14	
evening set	14703 Apr 30 07:08	1° Ⅱ 24'18		asc. node	14704 Apr 15 09:29	13° 8 08'21	
-	14703 May 01 19:00	30°R₩		min. Earth dist.	14704 Apr 17 00:46	11° 8 19'06	0.66348 AU
min. Earth dist.	14703 May 04 13:29	26° 8 46'29	0.67669 AU	inferior conj	14704 Apr 19 00:44	8° 8 56'50	1°06'38
inferior conj	14703 May 06 00:47	24° 8 53'48	1°53'13	minimum elong	14704 Apr 18 23:09	9° 8 01'34	1°05'30
minimum elong	14703 May 05 22:39	25° 8 00'36	1°51'47	morning rise	14704 Apr 24 23:18	3° 8 18'11	
morning rise	14703 May 11 14:43	19° 8 03'32		direct	14704 Apr 27 23:15	2° 8 28'17	
direct	14703 May 15 00:55	17° 8 56'18		morning max el	14704 May 04 08:43	5° 8 50'23	18°16'31
morning max el	14703 May 21 19:59	21° 8 36'56	18°57'19	desc. node	14704 May 18 05:30	25° 8 08'51	
<i>3</i>	14703 May 28 17:15	0°II			14704 May 21 06:46	0°II	
desc. node	14703 Jun 01 08:39	5° Ⅱ 13'37		morning set	14704 May 24 00:37	4° Ⅱ 22'40	
greatest brilliancy	14703 Jun 04 03:58	9° Ⅱ 25'02	-0.7m				
gy	5411 01 05.50						

		🗕					
superior conj	14704 Jun 08 10:53	28° Ⅱ 44'29		morning max el	14705 Apr 18 01:26	20° Y ′01′12	17°52'43
minimum elong	14704 Jun 08 03:53	28° Ⅱ 17'05	2°04'33		14705 Apr 25 16:28	0°8	
	14704 Jun 09 06:14	0 \circ \odot		morning set	14705 May 05 10:03	15° 8 53'35	
max. Earth dist.	14704 Jun 09 18:12	0°9346'44	1.45918 AU	desc. node	14705 May 05 02:15	15° 8 21'04	
evening rise	14704 Jun 24 11:30	23° © 42'46			14705 May 13 23:17	$\Pi^{\circ}0$	
	14704 Jun 28 12:21	0 $^{\circ}$ Ω					
greatest brilliancy	14704 Jul 05 01:36	10° Ω 06'48	-0.8m	superior conj	14705 May 19 04:04	8° Ⅲ 22'33	-1°36'25
asc. node	14704 Jul 12 08:02	20° Ω 39'45		minimum elong	14705 May 18 19:18	7° Ⅱ 47'34	1°36'25
evening max el	14704 Jul 17 10:47	26° Ω 45′02	19°01'45	max. Earth dist.	14705 May 23 14:20	15° Ⅲ 23'18	1.45439 AU
	14704 Jul 21 21:57	0° m)			14705 Jun 02 00:03	0 \circ \odot	
retrograde	14704 Jul 24 06:09	0° ™ 29'50		evening rise	14705 Jun 04 01:48	3°910'49	
	14704 Jul 26 12:39	30° Ŗ Ω		greatest brilliancy	14705 Jun 18 19:04	25°916'51	-0.6m
evening set	14704 Jul 27 17:13	29° Ω 20′29			14705 Jun 22 02:38	$0^{\circ}\Omega$	
inferior conj	14704 Aug 02 04:55	23° Ω 34'09	2°52'22	asc. node	14705 Jun 29 04:52	9° Ω 02'42	
minimum elong	14704 Aug 02 06:36	23° Ω 28'43	2°51'23	evening max el	14705 Jun 30 16:04	10° Ω 35′27	19°54'34
min. Earth dist.	14704 Aug 03 19:20	21° Ω 31'17	0.66639 AU	retrograde	14705 Jul 08 04:44	14° Ω 51'17	
morning rise	14704 Aug 07 19:17	17° Ω 08'45		evening set	14705 Jul 12 01:36	13° Ω 24'44	
direct	14704 Aug 13 23:13	14° Ω 30′50		inferior conj	14705 Jul 17 08:55	7° Ω 25'27	3°07'23
desc. node	14704 Aug 14 03:50	14° Ω 30′58		minimum elong	14705 Jul 17 09:40	7° Ω 22'53	3°06'27
morning max el	14704 Aug 26 18:02	22° Ω 07'19	26°11'42	min. Earth dist.	14705 Jul 18 09:10	6° Ω 03'35	0.67910 AU
	14704 Sep 02 15:49	0° m y		morning rise	14705 Jul 22 17:21	1° Ω 01′20	
	14704 Sep 23 00:14	0∘ ⊽			14705 Jul 24 00:22	30° ₹ 5	
morning set	14704 Oct 01 16:41	15° ≏ 20'00		direct	14705 Jul 28 10:35	28° 5 31'00	
max. Earth dist.	14704 Oct 05 11:59	22° ₽ 33'57	1.34968 AU	desc. node	14705 Aug 01 01:16	29°520'46	
asc. node	14704 Oct 08 09:56	28° ₽ 19'13			14705 Aug 02 08:35	$0^{\circ}\Omega$	
	14704 Oct 09 05:58	0° M .		morning max el	14705 Aug 09 04:53	5° Ω 33'53	24°50'21
				Č	14705 Aug 28 02:34	0° m	
superior conj	14704 Oct 10 21:39	3°M22'00	0°22'57	morning set	14705 Sep 13 23:05	27° m) 18'59	
minimum elong	14704 Oct 10 20:23	3° M ₁5'32	0°23'11	C	14705 Sep 15 11:19	0 ° $\overline{\mathbf{v}}$	
evening rise	14704 Oct 18 11:44	19° M .10'16		max. Earth dist.	14705 Sep 17 12:32	3° ₽ 42'52	1.37140 AU
8 21	14704 Oct 23 20:32	0° ⊼ ¹					
evening max el	14704 Nov 06 05:41	20° х 07′20	20°42'28	superior conj	14705 Sep 24 07:54	16° ≏ 36'36	-0°08'39
desc. node	14704 Nov 10 00:10	23° ∡ 15'19		minimum elong	14705 Sep 24 08:27	16° ≏ 39'17	
retrograde	14704 Nov 17 13:16	25° х 44'57		behind sun begin	14705 Sep 24 02:45	16° ≏ 11'28	
evening set	14704 Nov 19 22:39	25° × ⁷ 31'01		behind sun end	14705 Sep 24 14:08	17° ♀ 07'09	
inferior conj	14704 Nov 28 20:07	21° ∡ ³37'14	-5°13'30	asc. node	14705 Sep 25 06:30	18° ≏ 27'31	
minimum elong	14704 Nov 28 10:45	21° ₹ ′50'42			14705 Oct 01 00:48	0°M₊	
min. Earth dist.	14704 Nov 29 22:19	20°× 7 59'33	0.54566 AU	evening rise	14705 Oct 02 16:02	3°ML17'55	
morning rise	14704 Dec 06 22:51	17° ∡ ′41'40	***************************************		14705 Oct 18 11:32	0° ∡ ¹	
direct	14704 Dec 11 07:43	17° х 00'46		evening max el	14705 Oct 19 15:41	1° х 14'33	19°30'13
morning max el	14704 Dec 24 13:47	23°×727'51	23°22'10	desc. node	14705 Oct 27 21:29	5° x ⁷ 58'56	1, 50 15
8	14704 Dec 30 08:59	0°る		retrograde	14705 Oct 29 07:58	6° х ⁷ 05′08	
asc. node	14705 Jan 04 10:09	7° る 18'46		evening set	14705 Oct 31 05:27	5° х 54'48	
use. Hous	14705 Jan 16 10:29	0° ≈		inferior conj	14705 Nov 08 21:39	1° × 7'49'02	-3°42'02
morning set	14705 Jan 16 23:30	1° ≈ 09'18		minimum elong	14705 Nov 08 12:34	2° х ¹03'36	
				min. Earth dist.	14705 Nov 11 07:20	0° x ⁷ 16'36	0.55485 AU
superior conj	14705 Jan 23 20:45	16° ≈ 03'36	1°30'56	min Darur Gige.	14705 Nov 11 18:00	30°RM₁	0.00 100 110
minimum elong	14705 Jan 23 22:20	16° ≈ 12'11	1°31'36	morning rise	14705 Nov 16 17:39	27°M25'22	
max. Earth dist.	14705 Jan 26 21:19	22° ≈ 30'42	1.33153 AU	direct	14705 Nov 22 00:08	26°M22'58	
	14705 Jan 30 12:25	0° ∀			14705 Dec 01 21:16	0° ⊼ ¹	
evening rise	14705 Jan 31 16:04	2° ¥ 18′20		morning max el	14705 Dec 05 23:05		25°10'16
desc. node	14705 Feb 06 00:01	12°) €29'42		asc. node	14705 Dec 22 07:18	25° ×7 46'12	20 10 10
acco. noac	14705 Feb 16 08:13	0°Υ		use. node	14705 Dec 24 15:15	0°ਰ	
evening max el	14705 Mar 07 00:11	23° Y ′59'03	27°21'51	morning set	14706 Jan 01 11:17	15° පි 50'37	
evening max or	14705 Mar 15 00:23	0°8	2, 2131	morning sec	14706 Jan 07 21:55	0° ≈	
retrograde	14705 Mar 20 15:00	1° 8 28'38			14700 Juli 07 21.33	0 701	
retrograde	14705 Mar 25 19:35	30°RY		superior conj	14706 Jan 08 05:24	0° ≈ 41'22	1°37'09
evening set	14705 Mar 27 08:23	28° Υ ′59'04		minimum elong	14706 Jan 08 05:58	0°≈44'27	1°38'05
min. Earth dist.	14705 Mar 27 08:23	25° Y $27'55$	0.64644 AU	max. Earth dist.	14706 Jan 09 23:03	0 ≈44 27 4°≈30'13	1.31952 AU
asc. node	14705 Mai 31 04:39	23° Y 12'20	3.0 IOTT /IU	evening rise	14706 Jan 15 11:25	16°≈15'13	1.51752 AU
inferior conj	14705 Apr 02 06:35	23° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0°07'49	Svennig 1150	14706 Jan 22 12:21	0° ∺	
minimum elong	14705 Apr 02 16:32	22° Y 46'08	0°07'25	desc. node	14706 Jan 22 12.21 14706 Jan 23 20:38	0 K 2° ∺ 26'57	
transit middle	14705 Apr 02 16:32	22°\bar{46'08}	0°07'25	dese. Houe	14706 Jan 23 20.38 14706 Feb 11 01:42	2 π 2037 0° Υ	
transit begin	14705 Apr 02 13:49	22° Υ 53'31	0 0123	evening max el	14706 Feb 17 01.42	6° Υ 58'35	27°34'45
transit begin	14705 Apr 02 19:15	22 γ 33 31 22° γ 38'46		retrograde	14706 Mar 03 08:36	14° Υ 25'11	21 JT 7J
morning rise	14705 Apr 02 19:13	17° Y 20'41		evening set	14706 Mar 10 05:20	14 γ 25 11 12° Υ 05'39	
direct	14705 Apr 11 17:27	1/ γ 2041 16° γ 45'15		min. Earth dist.	14706 Mar 10 03.20 14706 Mar 13 23:27	9° Υ 01'36	0.62629 AU
ancei	17/03/Apr 11 1/.2/	10 14313		mm. Darm uist.	17/00 IVIAI 13 23.2/	7 1 01 30	0.02029 AU

14707 Mar 07 03:01

morning rise

14°**)** 16′45

14708 Feb 11 05:05

30°R≈

morning rise	14708 Feb 17 13:29	26° ≈ 51'16		inferior conj	14709 Jan 20 08:48	12° ≈ 42'27	-5°10'31
direct	14708 Feb 19 13:36	26° ≈ 37'44		minimum elong	14709 Jan 20 17:27	12° ≈ 28'36	5°07'50
asc. node	14708 Feb 21 23:18	26° ≈ 58'10		morning rise	14709 Jan 28 22:11	8° ≈ 35'52	
	14708 Feb 27 01:49	0° ₩		direct	14709 Jan 31 03:38	8° ≈ 22'01	
morning max el	14708 Feb 27 19:37	0°) 41'44	18°30'30	asc. node	14709 Feb 07 20:45	11° ≈ 21'35	
morning set	14708 Mar 14 17:26	26°) €09'32	10 30 20	morning max el	14709 Feb 09 18:28	13°≈01'53	19°24'31
morning set	14708 Mar 16 17:22	0°Υ		morning max ci	14709 Feb 21 08:23	0° ∀	1) 2431
	14/06 Widi 10 17.22	0 1		marning aat		10° ∺ 36'35	
	14700 M 22 10 00	13° Ƴ 23'01	001.5120	morning set	14709 Feb 26 19:26	10 Ж3033	
superior conj	14708 Mar 23 19:00		0°15'20				
minimum elong	14708 Mar 23 20:04	13° Y 27'55	0°15'01	superior conj	14709 Mar 06 22:30	26°) 47′27	
behind sun begin	14708 Mar 23 17:40	13° Y 16'49		minimum elong	14709 Mar 07 00:55	26° ¥ 59'12	0°44'52
behind sun end	14708 Mar 23 22:27	13° Ƴ 38'59			14709 Mar 08 14:21	0 ° $\mathbf{\gamma}$	
desc. node	14708 Mar 25 16:00	16° Ƴ 49'19		desc. node	14709 Mar 12 12:31	7° Ƴ 22'46	
max. Earth dist.	14708 Mar 31 05:37	26° Ƴ 41'38	1.40397 AU	max. Earth dist.	14709 Mar 13 12:06	9° Ƴ 10'48	1.38119 AU
	14708 Apr 02 03:58	$_{0\circ}$ 8		evening rise	14709 Mar 17 05:02	15° Ƴ 47'54	
evening rise	14708 Apr 04 11:15	3° 8 51'58			14709 Mar 25 17:06	8° 0	
_	14708 Apr 21 09:45	Π° 0			14709 Apr 16 00:22	$\Pi^{\circ}0$	
evening max el	14708 May 09 00:27	22° Ⅱ 11'59	23°38'53	evening max el	14709 Apr 21 13:58	6° Ⅱ 05'38	24°58'02
retrograde	14708 May 19 20:15	28°II33'30		retrograde	14709 May 03 11:25	13° Ⅱ 01'11	
asc. node	14708 May 19 20:01	28° I 33'30		asc. node	14709 May 06 17:17	12° I I16'17	
evening set	14708 May 25 02:26	26° I 19'53		evening set	14709 May 09 05:07	10° I I36'36	
•	•	19° ∏ 52'48	2042141	•		5° I 38'33	0.68239 AU
inferior conj	14708 May 30 11:56		2°43'41	min. Earth dist.	14709 May 13 15:15		
minimum elong	14708 May 30 10:08	19° Ⅱ 59'00	2°42'21	inferior conj	14709 May 14 19:22	4° Ⅱ 05'57	2°14'48
min. Earth dist.	14708 May 29 20:39	20° Ⅱ 45'13	0.68872 AU	minimum elong	14709 May 14 17:12	4° Ⅱ 13'03	2°13'21
morning rise	14708 Jun 04 17:49	13° Ⅱ 47'49			14709 May 18 03:58	30° ₹ 8	
direct	14708 Jun 08 22:13	12° Ⅱ 09'21		morning rise	14709 May 20 05:35	28° 8 10'12	
morning max el	14708 Jun 16 23:58	16° Ⅱ 44'26	20°34'25	direct	14709 May 23 22:11	26° 8 52'02	
desc. node	14708 Jun 21 17:00	22° Ⅱ 03'29			14709 May 30 05:33	Π $\circ 0$	
	14708 Jun 27 16:31	0 \circ \odot		morning max el	14709 May 31 02:19	0° Ⅱ 48'49	19°28'21
morning set	14708 Jul 16 04:28	27° © 27'52		desc. node	14709 Jun 08 14:02	11° Ⅱ 17'11	
	14708 Jul 17 19:41	$0^{\circ}\Omega$		greatest brilliancy	14709 Jun 12 17:28	17° Ⅱ 14'50	-0.7m
max. Earth dist.	14708 Jul 24 21:35	11° Ω 11'37	1.43765 AU		14709 Jun 21 05:05	0 \circ \odot	
				morning set	14709 Jun 25 07:12	6° © 15'27	
superior conj	14708 Jul 31 09:02	21° Ω 46′27	-1°50'29	max. Earth dist.	14709 Jul 07 12:34	25° © 14'59	1.45153 AU
minimum elong	14708 Jul 31 16:32	22° Ω 17'39	1°50'31		14709 Jul 10 12:39	$0^{\circ}\Omega$	
	14708 Aug 05 06:19	0° m)					
evening rise	14708 Aug 12 18:18	12° m 59'32		superior conj	14709 Jul 11 12:53	1° Ω 36′23	-2°10'21
asc. node	14708 Aug 15 20:10			1 3			
		18° IIb 22'3'/		minimum elong	14709 Jul 11 17:13	1°Ω53'40	2°11'07
	-	18° Mp 22'37 0° <u>₽</u>		minimum elong evening rise	14709 Jul 11 17:13 14709 Jul 25 16:31	• • • •	2°11'07
evening max el	14708 Aug 22 18:05	0∘ ⊽	18°02'03	minimum elong evening rise	14709 Jul 25 16:31	24° Ω 41'43	2°11'07
evening max el	14708 Aug 22 18:05 14708 Aug 29 12:45	0° ჲ 8° ჲ 57'40	18°02'03	evening rise	14709 Jul 25 16:31 14709 Jul 28 20:59	24° Ω 41'43 0° m	2°11'07
retrograde	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47	0° ჲ 8° ჲ 57'40 12° ჲ 20'49	18°02'03	evening rise asc. node	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49	24° \Omega 41'43 0° m 7° m 56'45	
retrograde evening set	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54	0° ჲ 8° ჲ 57'40 12° ჲ 20'49 11° ჲ 50'31		evening rise asc. node evening max el	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20	24° \$\Omega 41'43\$ 0° my 7° my 56'45 22° my 26'47	2°11'07 18°11'26
retrograde evening set inferior conj	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26	1°01'19	evening rise asc. node evening max el retrograde	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56	24° \(\Omega 41'43\) 0° m 7° m 56'45 22° m 26'47 25° m 48'11	
retrograde evening set inferior conj minimum elong	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09	1°01'19 1°00'43	asc. node evening max el retrograde evening set	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31	24° \$\Omega 41'43\$ 0° mp 7° mp 56'45 22° mp 26'47 25° mp 48'11 25° mp 04'24	18°11'26
retrograde evening set inferior conj minimum elong min. Earth dist.	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52	1°01'19	asc. node evening max el retrograde evening set inferior conj	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43	24° \$\Omega 41'43\$ 0° my 7° my 56'45 22° my 26'47 25° my 48'11 25° my 04'24 19° my 41'14	18°11'26 1°58'42
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36	1°01'19 1°00'43	asc. node evening max el retrograde evening set inferior conj minimum elong	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$	18°11'26 1°58'42 1°57'43
retrograde evening set inferior conj minimum elong min. Earth dist.	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25	1°01'19 1°00'43	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44	18°11'26 1°58'42
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M	1°01'19 1°00'43	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 30 22:18 14709 Sep 03 13:56	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10	18°11'26 1°58'42 1°57'43
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38	1°01'19 1°00'43	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24	24° \(\Omega 41'43\) 0° \(\text{m} \) 7° \(\text{m} \) 56'45 22° \(\text{m} \) 26'47 25° \(\text{m} \) 04'24 19° \(\text{m} \) 04'24 19° \(\text{m} \) 34'27 16° \(\text{m} \) 51'44 13° \(\text{m} \) 24'10 12° \(\text{m} \) 45'18	18°11'26 1°58'42 1°57'43
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω	1°01'19 1°00'43	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10	18°11'26 1°58'42 1°57'43
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω	1°01'19 1°00'43	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'15\$ 18° \$\text{m}\$ 51'25	18°11'26 1°58'42 1°57'43 0.63789 AU
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω	1°01'19 1°00'43 0.61601 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44	24° \(\Omega 41'43\) 0° \(\text{m} \) 7° \(\text{m} \) 56'45 22° \(\text{m} \) 26'47 25° \(\text{m} \) 48'11 25° \(\text{m} \) 04'24 19° \(\text{m} \) 41'14 19° \(\text{m} \) 34'27 16° \(\text{m} \) 51'44 13° \(\text{m} \) 24'10 12° \(\text{m} \) 45'18 10° \(\text{m} \) 51'15	18°11'26 1°58'42 1°57'43 0.63789 AU
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31	1°01'19 1°00'43 0.61601 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'15\$ 18° \$\text{m}\$ 51'25	18°11'26 1°58'42 1°57'43 0.63789 AU
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M	1°01'19 1°00'43 0.61601 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58	24° Ω41'43 0° m 7° m 56'45 22° m 26'47 25° m 04'24 19° m 41'14 19° m 34'27 16° m 51'44 13° m 24'10 12° m 45'18 10° m 51'15 18° m 51'25 0° Ω	18°11'26 1°58'42 1°57'43 0.63789 AU
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48	1°01'19 1°00'43 0.61601 AU	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53	24° Ω41'43 0° m 7° m 56'45 22° m 26'47 25° m 04'24 19° m 41'14 19° m 34'27 16° m 51'44 13° m 24'10 12° m 45'18 10° m 51'15 18° m 51'25 0° Ω 0° M	18°11'26 1°58'42 1°57'43 0.63789 AU
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30	0° £ 8° £57'40 12° £20'49 11° £50'31 6° £44'26 6° £40'09 3° £44'52 3° £22'36 0° £43'25 30° ₹ ₹ 28° ₹ \$22'31 0° ₹ 24° ₹ £01'48 28° ₹ £43'17	1°01'19 1°00'43 0.61601 AU	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'15\$ 18° \$\text{m}\$ 51'25\$ 0° \$\text{\text{\text{\$\text{0}\$}}}\$ 0° \$\text{m}\$. 12° \$\text{m}\$ 20'35	18°11'26 1°58'42 1°57'43 0.63789 AU
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 03 08:43 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 05:30	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° ズ	1°01'19 1°00'43 0.61601 AU 27°58'56	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51	24° \$\Omega 41'43\$ 0° \$\text{m} 56'45\$ 22° \$\text{m} 26'47\$ 25° \$\text{m} 48'11\$ 25° \$\text{m} 44'14\$ 19° \$\text{m} 34'27\$ 16° \$\text{m} 51'44\$ 13° \$\text{m} 24'10\$ 12° \$\text{m} 45'18\$ 10° \$\text{m} 51'25\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 12° \$\text{m} 20'35\$ 13° \$\text{m} 59'46\$	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node morning set	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 03 08:43 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 05:30	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° ズ	1°01'19 1°00'43 0.61601 AU 27°58'56	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'25\$ 0° \$\text{n}\$ 0° \$\text{m}\$ 12° \$\text{m}\$ 20'35\$ 13° \$\text{m}\$ 59'46\$ 22° \$\text{m}\$ 16'25\$	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
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.	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 14 05:30 14708 Nov 14 05:30 14708 Nov 14 20:17 14708 Nov 19 19:24	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° ズ 10° ズ 38'01	1°01'19 1°00'43 0.61601 AU 27°58'56	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.	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 27 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 02 18:57	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'25\$ 0° \$\text{n}\$ 0° \$\text{m}\$ 12° \$\text{m}\$ 20'35\$ 13° \$\text{m}\$ 59'46\$ 22° \$\text{m}\$ 16'25\$	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
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 minimum elong	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 14 05:30 14708 Nov 14 20:17 14708 Nov 19 19:24	0° £ 8° £57'40 12° £20'49 11° £50'31 6° £44'26 6° £40'09 3° £44'52 3° £22'36 0° £43'25 30° ₹ ₹ €25'38 0° £ 6° £22'31 0° ₹ €20'31 0° ₹ €30'01'48 28° ₹ €30'01	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50	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.	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 29 18:51 14709 Nov 05 20:47	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'15\$ 18° \$\text{m}\$ 51'25\$ 0° \$\text{n}\$ 0° \$\text{m}\$ 12° \$\text{m}\$ 20'35\$ 13° \$\text{m}\$ 59'46\$ 22° \$\text{m}\$ 16'25\$	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
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	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 20:17 14708 Nov 19 19:24	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🗷 10° 🗷 38'01 14° 🗷 33'01 14° 🗷 321'22 29° 🗷 21'33	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 05 20:47 14709 Nov 05 18:28 14709 Nov 06 09:22	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'25\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 12° \$\text{m}\$ 20'35\$ 13° \$\text{m}\$ 59'46\$ 22° \$\text{m}\$ 16'25\$	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
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 minimum elong evening rise	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 21 12:25 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 20:17 14708 Nov 19 19:24 14708 Nov 21 14:03 14708 Nov 21 11:57 14708 Nov 28 07:10 14708 Nov 28 07:10	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🖈 10° 🛣 38'01 14° 🛣 33'01 14° 🛣 33'01 14° 🛣 21'22 29° 🛣 21'33 0° ጜ	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50	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.	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 05 20:47 14709 Nov 05 18:28 14709 Nov 06 09:22 14709 Nov 06 09:22	24° \$\Omega 41'43\$ 0° \$\text{m}\$ 7° \$\text{m}\$ 56'45\$ 22° \$\text{m}\$ 26'47\$ 25° \$\text{m}\$ 48'11\$ 25° \$\text{m}\$ 04'24\$ 19° \$\text{m}\$ 41'14\$ 19° \$\text{m}\$ 34'27\$ 16° \$\text{m}\$ 51'44\$ 13° \$\text{m}\$ 24'10\$ 12° \$\text{m}\$ 45'18\$ 10° \$\text{m}\$ 51'15\$ 18° \$\text{m}\$ 51'25\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 12° \$\text{m}\$ 20'35\$ 13° \$\text{m}\$ 59'46\$ 22° \$\text{m}\$ 16'25\$ 28° \$\text{m}\$ 51'46 28° \$\text{m}\$ 39'15\$ 0° \$\text{s}\$	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
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 minimum elong	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 21 12:35 14708 Oct 03 08:43 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 20:17 14708 Nov 19 19:24 14708 Nov 21 14:03 14708 Nov 21 11:57 14708 Nov 28 07:10 14708 Nov 28 14:18 14708 Dec 14 11:09	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🛪 10° 🛪 38'01 14° 🛪 33'01 14° 🛪 33'01 14° 🛪 21'22 29° 🛪 21'33 0° ♂ 29° ♂ 16'18	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 05 18:28 14709 Nov 05 18:28 14709 Nov 06 09:22 14709 Nov 12 18:12 14709 Nov 20 17:58	24° N41'43 0° m 7° m 56'45 22° m 26'47 25° m 48'11 25° m 04'24 19° m 41'14 19° m 34'27 16° m 51'44 13° m 24'10 12° m 45'18 10° m 51'15 18° m 51'25 0° \(\Omega\) 0° \(\Omega\) 12° \(\Omega\) 22° \(\Omega\) 13° \(\Omega\) 28° \(\Omega\) 38' \(\Omega\) 13° \(\omega\) 38' \(\omega\)	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53
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 minimum elong evening rise desc. node	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 21 12:35 14708 Oct 03 08:43 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 20:17 14708 Nov 19 19:24 14708 Nov 21 14:03 14708 Nov 21 11:57 14708 Nov 28 07:10 14708 Nov 28 14:18 14708 Dec 14 11:09 14708 Dec 14 23:05	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🛪 10° 🛪 38'01 14° 🛪 33'01 14° 🛪 33'01 14° 🛪 21'22 29° 🛪 21'33 0° ጜ 29° ጜ 16'18 0° ≈	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50 1°20'31	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	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 05 18:28 14709 Nov 05 18:28 14709 Nov 06 09:22 14709 Nov 12 18:12 14709 Nov 20 17:58 14709 Dec 01 08:13	24° \$\Pi41'43\$ 0° \$\mathref{m}\$ 7° \$\mathref{m}\$56'45\$ 22° \$\mathref{m}\$26'47\$ 25° \$\mathref{m}\$48'11\$ 25° \$\mathref{m}\$04'24\$ 19° \$\mathref{m}\$41'14\$ 19° \$\mathref{m}\$34'27\$ 16° \$\mathref{m}\$51'44\$ 13° \$\mathref{m}\$24'10\$ 12° \$\mathref{m}\$45'18\$ 10° \$\mathref{m}\$51'15\$ 18° \$\mathref{m}\$51'25\$ 0° \$\mathref{n}\$ 0° \$\mathref{m}\$ 12° \$\mathref{m}\$20'35\$ 13° \$\mathref{m}\$59'46\$ 22° \$\mathref{m}\$16'25\$ 28° \$\mathref{m}\$51'40\$ 0° \$\mathref{n}\$ 13° \$\mathref{n}\$51'40\$ 0° \$\mathref{n}\$ 16° \$\mathref{n}\$29'41	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53 1.32417 AU 1°02'16 1°02'44
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 minimum elong evening rise desc. node evening max el	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 21 12:25 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 05:30 14708 Nov 19 19:24 14708 Nov 21 14:03 14708 Nov 21 11:57 14708 Nov 28 07:10 14708 Nov 28 07:10 14708 Nov 28 14:18 14708 Dec 14 11:09 14708 Dec 14 23:05 14708 Dec 24 07:57	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🛪' 10° 🛪' 33'01 14° 🛪' 33'01 14° 🛪' 33'01 14° 🛪' 21'22 29° 🛪 21'33 0° 줍 29° 🛪 16'18 0° ≈ 11° ≈ 19'29	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50 1°20'31	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 evening max el	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 02 18:57 14709 Nov 05 18:28 14709 Nov 06 09:22 14709 Nov 12 18:12 14709 Nov 20 17:58 14709 Dec 01 08:13 14709 Dec 01 08:13	24° \$\Pi41'43\$ 0° \$\mathref{m}\$ 7° \$\mathref{m}\$56'45\$ 22° \$\mathref{m}\$26'47\$ 25° \$\mathref{m}\$48'11\$ 25° \$\mathref{m}\$04'24\$ 19° \$\mathref{m}\$41'14\$ 19° \$\mathref{m}\$34'27\$ 16° \$\mathref{m}\$51'44\$ 13° \$\mathref{m}\$24'10\$ 12° \$\mathref{m}\$45'18\$ 10° \$\mathref{m}\$51'15\$ 18° \$\mathref{m}\$51'25\$ 0° \$\mathref{\Omega}\$ 0° \$\mathref{m}\$\$ 12° \$\mathref{m}\$20'35\$ 13° \$\mathref{m}\$20'35\$ 13° \$\mathref{m}\$39'15\$ 0° \$\mathref{\Omega}\$ 13° \$\mathref{m}\$39'15\$ 0° \$\mathref{\Omega}\$ 13° \$\mathref{\Omega}\$51'40\$ 0° \$\mathref{\Omega}\$ 16° \$\mathref{\Omega}\$29'41\$ 21° \$\mathref{\Omega}\$21'36	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53 1.32417 AU 1°02'16 1°02'44
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 minimum elong evening rise desc. node evening max el retrograde	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 05:30 14708 Nov 19 19:24 14708 Nov 21 14:03 14708 Nov 21 11:57 14708 Nov 28 07:10 14708 Nov 28 14:18 14708 Dec 14 11:09 14708 Dec 14 23:05 14708 Dec 24 07:57 14709 Jan 07 02:25	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🛪 10° 🛪 33'01 14° 🛪 33'01 14° 🛪 33'01 14° 🛪 21'22 29° 🛪 21'33 0° 줍 29° 줍 16'18 0° ≈ 11° ≈ 19'29 18° ≈ 12'53	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50 1°20'31	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 evening max el retrograde	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 10 04:44 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 02 18:57 14709 Nov 05 18:28 14709 Nov 06 09:22 14709 Nov 12 18:12 14709 Nov 12 18:12 14709 Nov 12 18:12 14709 Nov 10 08:13 14709 Dec 01 08:13 14709 Dec 05 17:39 14709 Dec 19 00:03	24° \$\Pi41'43\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{m}\) 56'45\\ 22° \$\mathbf{m}\) 26'47\\ 25° \$\mathbf{m}\) 48'11\\ 25° \$\mathbf{m}\) 41'14\\ 19° \$\mathbf{m}\) 34'27\\ 16° \$\mathbf{m}\) 51'44\\ 13° \$\mathbf{m}\) 51'15\\ 18° \$\mathbf{m}\) 51'15\\ 18° \$\mathbf{m}\) 51'25\\ 0° \$\mathbf{m}\\ 0° \$\mathbf{m}\\ 22° \$\mathbf{m}\) 16'25\\ 28° \$\mathbf{m}\) 51'46\\ 28° \$\mathbf{m}\) 51'46\\ 28° \$\mathbf{m}\) 51'40\\ 0° \$\mathbf{m}\\ 13° \$\mathbf{m}\) 51'40\\ 0° \$\mathbf{m}\\ 16° \$\mathbf{m}\) 29'41\\ 21° \$\mathbf{m}\) 21'36\\ 27° \$\mathbf{m}\) 56'42	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53 1.32417 AU 1°02'16 1°02'44
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 minimum elong evening rise desc. node evening max el	14708 Aug 22 18:05 14708 Aug 29 12:45 14708 Sep 05 01:47 14708 Sep 07 13:54 14708 Sep 14 04:16 14708 Sep 14 05:58 14708 Sep 17 04:27 14708 Sep 17 13:52 14708 Sep 20 19:24 14708 Sep 21 22:57 14708 Sep 21 12:25 14708 Sep 27 11:23 14708 Oct 03 08:43 14708 Oct 11 15:38 14708 Oct 29 13:13 14708 Nov 11 22:06 14708 Nov 14 05:30 14708 Nov 14 05:30 14708 Nov 19 19:24 14708 Nov 21 14:03 14708 Nov 21 11:57 14708 Nov 28 07:10 14708 Nov 28 07:10 14708 Nov 28 14:18 14708 Dec 14 11:09 14708 Dec 14 23:05 14708 Dec 24 07:57	0° Ω 8° Ω 57'40 12° Ω 20'49 11° Ω 50'31 6° Ω 44'26 6° Ω 40'09 3° Ω 44'52 3° Ω 22'36 0° Ω 43'25 30° R M 28° M 25'38 0° Ω 6° Ω 22'31 0° M 24° M 01'48 28° M 43'17 0° 🛪' 10° 🛪' 33'01 14° 🛪' 33'01 14° 🛪' 33'01 14° 🛪' 21'22 29° 🛪 21'33 0° 줍 29° 🛪 16'18 0° ≈ 11° ≈ 19'29	1°01'19 1°00'43 0.61601 AU 27°58'56 1.31492 AU 1°19'50 1°20'31	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 evening max el	14709 Jul 25 16:31 14709 Jul 28 20:59 14709 Aug 02 16:49 14709 Aug 13 03:20 14709 Aug 19 11:56 14709 Aug 22 08:31 14709 Aug 28 09:43 14709 Aug 28 12:08 14709 Aug 30 22:18 14709 Sep 03 13:56 14709 Sep 04 11:24 14709 Sep 10 04:44 14709 Sep 24 01:13 14709 Oct 03 11:58 14709 Oct 22 11:53 14709 Oct 28 23:05 14709 Oct 29 18:51 14709 Nov 02 18:57 14709 Nov 05 18:28 14709 Nov 06 09:22 14709 Nov 12 18:12 14709 Nov 20 17:58 14709 Dec 01 08:13 14709 Dec 01 08:13	24° \$\Pi41'43\$ 0° \$\mathref{m}\$ 7° \$\mathref{m}\$56'45\$ 22° \$\mathref{m}\$26'47\$ 25° \$\mathref{m}\$48'11\$ 25° \$\mathref{m}\$04'24\$ 19° \$\mathref{m}\$41'14\$ 19° \$\mathref{m}\$34'27\$ 16° \$\mathref{m}\$51'44\$ 13° \$\mathref{m}\$24'10\$ 12° \$\mathref{m}\$45'18\$ 10° \$\mathref{m}\$51'15\$ 18° \$\mathref{m}\$51'25\$ 0° \$\mathref{\Omega}\$ 0° \$\mathref{m}\$\$ 12° \$\mathref{m}\$20'35\$ 13° \$\mathref{m}\$20'35\$ 13° \$\mathref{m}\$39'15\$ 0° \$\mathref{\Omega}\$ 13° \$\mathref{m}\$39'15\$ 0° \$\mathref{\Omega}\$ 13° \$\mathref{\Omega}\$51'40\$ 0° \$\mathref{\Omega}\$ 16° \$\mathref{\Omega}\$29'41\$ 21° \$\mathref{\Omega}\$21'36	18°11'26 1°58'42 1°57'43 0.63789 AU 27°40'53 1.32417 AU 1°02'16 1°02'44

inferior conj	14709 Dec 31 12:54	23° る 16'07	-5°56'13	inferior conj	14710 Dec 11 05:03	3° る 16'09	-5°46'32
minimum elong	14709 Dec 31 15:56	23° る 11'45		minimum elong	14710 Dec 10 22:59	3° る 24'39	5°44'46
morning rise	14710 Jan 09 02:27	19° る 25'31		min. Earth dist.	14710 Dec 11 09:28	3° る 09'56	0.54450 AU
direct	14710 Jan 11 22:38	19° ට 06'20			14710 Dec 17 19:17	30°R. ✓	
morning max el	14710 Jan 23 03:32	24° ろ 28'59	20°41'38	morning rise	14710 Dec 19 11:56	29° х 27′32	
asc. node	14710 Jan 25 18:07	27° る 15'53		direct	14710 Dec 23 06:52	28° ∡ ¹56'18	
	14710 Jan 27 22:18	0° ≈			14710 Dec 28 12:58	8°0	
morning set	14710 Feb 11 03:01	25°≈16′09		morning max el	14711 Jan 04 22:13	5° る 02'09	22°19'38
	14710 Feb 13 09:42	0° ∀		asc. node	14711 Jan 12 15:25	14° る 22'25	
					14711 Jan 21 16:30	0° ≈	
superior conj	14710 Feb 18 14:17	10°) (44′29	1°08'09	morning set	14711 Jan 26 13:46	10°≈00'39	
minimum elong	14710 Feb 18 16:55	10°) 57′51	1°08'14				
max. Earth dist.	14710 Feb 23 20:03	21°) (10′00	1.35938 AU	superior conj	14711 Feb 02 14:46	25° ≈ 03'20	1°24'29
desc. node	14710 Feb 27 09:03	27° ¥ 52′10		minimum elong	14711 Feb 02 16:51	25° ≈ 14'25	1°24'57
evening rise	14710 Feb 27 17:08	28° ∺ 29'32			14711 Feb 04 23:16	0°) €	
	14710 Feb 28 12:52	0 ° Υ		max. Earth dist.	14711 Feb 06 10:02	2° ¥ 59'18	1.34053 AU
	14710 Mar 19 00:01	0° 8		evening rise	14711 Feb 10 19:58	11° ¥ 47′05	
evening max el	14710 Apr 04 03:27	19° 8 56'04	26°08'05	desc. node	14711 Feb 14 05:35	18° ¥ 13′00	
retrograde	14710 Apr 16 21:49	27° 8 14'24			14711 Feb 20 22:20	0° Υ	
evening set	14710 Apr 23 02:13	24° 8 43'18			14711 Mar 14 05:56	0° 8	
asc. node	14710 Apr 23 14:37	24° 8 16'36		evening max el	14711 Mar 17 17:11	3° 8 36'15	27°01'37
min. Earth dist.	14710 Apr 27 05:51	20° 8 20'38	0.67156 AU	retrograde	14711 Mar 31 02:31	11° 8 04'56	
inferior conj	14710 Apr 28 22:40	18° 8 14'01	1°34'55	evening set	14711 Apr 06 15:47	8° 8 33'09	
minimum elong	14710 Apr 28 20:41	18° 8 20'12	1°33'34	min. Earth dist.	14711 Apr 10 14:21	4° 8 43'49	0.65659 AU
morning rise	14710 May 04 15:57	12° 8 28'39		asc. node	14711 Apr 10 12:02	4° 8 50'16	
direct	14710 May 07 21:34	11° 8 29'17		inferior conj	14711 Apr 12 19:34	2° 8 11'33	0°43'14
morning max el	14710 May 14 11:44	15° 8 00'38	18°37'55	minimum elong	14711 Apr 12 18:27	2° 8 14'47	0°42'20
	14710 May 25 19:18	Π °0			14711 Apr 14 18:59	30° ŖƳ	
desc. node	14710 May 26 10:57	0° Ⅱ 59'25		morning rise	14711 Apr 18 22:38	26° Ƴ 38'22	
morning set	14710 Jun 04 22:21	15° Ⅱ 42'37		direct	14711 Apr 21 18:26	25° Y ′55′08	
	14710 Jun 14 01:47	0° ©		morning max el	14711 Apr 28 02:27	29° Y 13'33	18°04'15
max. Earth dist.	14710 Jun 20 07:09	9° © 42'26	1.45848 AU		14711 Apr 28 20:47	0° 8	
				desc. node	14711 May 13 07:44	21° 8 02'22	
superior conj	14710 Jun 21 00:11	10°5548'54		morning set	14711 May 16 15:45	26° 8 27'02	
minimum elong	14710 Jun 20 20:58	10°536'22	2°13'05		14711 May 18 20:16	Π $^{\circ}0$	
	14710 Jul 03 05:11	0° Ω				200 H 0 5102	105401
evening rise	14710 Jul 06 14:09	5° Ω 21'29		superior conj	14711 May 31 10:18	20° Ⅱ 05'02	
greatest brilliancy	14710 Jul 13 23:02	17° Ω 03'49	-0.9m	minimum elong	14711 May 31 01:44	19° Ⅲ 31′22	
asc. node	14710 Jul 20 13:30	27° Ω 09'41		max. Earth dist.	14711 Jun 03 03:11		1.45798 AU
	14710 Jul 22 13:37	0° Mp	10020122		14711 Jun 06 18:36	0°©	
evening max el	14710 Jul 27 16:05	6° Mp 09'04	18°38'33	evening rise	14711 Jun 16 13:00	15° © 07'09	
retrograde	14710 Aug 03 05:14	9° Mp 41'47			14711 Jun 26 06:00	0°Ω 4°Ω24!45	0.7
evening set	14710 Aug 06 10:47 14710 Aug 12 02:26	8° Mp 42'20	2°37'23	greatest brilliancy	14711 Jun 29 04:34 14711 Jul 07 10:18	4° Ω 24'45 15° Ω 53'55	-0.7m
inferior conj minimum elong	14710 Aug 12 02:20 14710 Aug 12 04:33	3° Mp 04'10 2° Mp 57'39	2°36'23	asc. node evening max el	14711 Jul 11 00:39	13 δι 33 33	19°22'26
min. Earth dist.	14710 Aug 12 04.33	0° Mg 40'41	0.65705 AU	retrograde	14711 Jul 11 00:39	$23^{\circ}\Omega 55'02$	19 22 20
IIIII. Eartii dist.	14710 Aug 14 01:13	0 11/4041 30°RΩ	0.03703 AU	evening set	14711 Jul 18 02.31 14711 Jul 21 17:38	$23^{\circ} \Omega 38'33$	
morning rise	14710 Aug 14 14:30	26° Ω 39'48		inferior conj	14711 Jul 27 03:08	$16^{\circ} \Omega 46'50$	3°00'17
desc. node	14710 Aug 17 21:15	$24^{\circ}\Omega 14'05$		minimum elong	14711 Jul 27 04:27	16° Ω 42'30	2°59'21
direct	14710 Aug 22 08:33	24°Ω00'48		min. Earth dist.	14711 Jul 28 11:35	15°Ω00'23	0.67234 AU
direct	14710 Sep 04 14:32	0°m)		morning rise	14711 Aug 01 14:41	10° Ω 21'30	0.07254710
morning max el	14710 Sep 04 14:32 14710 Sep 06 12:27	1° m/ 50'56	26°51'09	direct	14711 Aug 07 14:41	7° Ω 45'35	
morning max or	14710 Sep 27 15:40	0∘ ⊽	20 31 0)	desc. node	14711 Aug 09 06:21	7° Ω 56'08	
morning set	14710 Oct 12 05:54	25° ≏ 26'24		morning max el	14711 Aug 19 23:25	15° Ω 09'41	25°38'37
morning sec	14710 Oct 14 14:20	0°M		morning mun vi	14711 Sep 01 04:06	0° my	20 3037
max. Earth dist.	14710 Oct 16 08:59	3° ™ 31'59	1.33889 AU		14711 Sep 20 11:50	0∘ ⊽	
asc. node	14710 Oct 16 15:29	4°M.04'43		morning set	14711 Sep 24 22:26	7° ≏ 52'41	
				max. Earth dist.	14711 Sep 28 13:22	14° £ 36'05	1.35853 AU
superior conj	14710 Oct 20 21:47	12°M51'06	0°38'55	asc. node	14711 Oct 03 12:05	24° ₽ 13'03	
minimum elong	14710 Oct 20 19:55	12°M41'15	0°39'11			5 05	
evening rise	14710 Oct 28 04:16	28°M17'03		superior conj	14711 Oct 04 14:24	26° ≏ 24'45	0°10'08
5 -7	14710 Oct 28 23:50	0° ₹		minimum elong	14711 Oct 04 13:47	26° ₽ 21'39	0°10'22
	14710 Nov 15 22:05	°ੁੱਠ		behind sun begin	14711 Oct 04 08:59	25° ≏ 57'31	
evening max el	14710 Nov 17 07:10	1° る 25'43	21°33'24	behind sun end	14711 Oct 04 18:36	26° Ω 45'49	
desc. node	14710 Nov 18 05:23	2°る18'22			14711 Oct 06 08:57	0°M	
retrograde	14710 Nov 29 11:45	7° る 28'01		evening rise	14711 Oct 12 11:22	12°M33'01	
evening set	14710 Dec 02 10:41	7°る08'07			14711 Oct 21 13:16	0° ₹	
3		,				•	

evening max el	14711 Oct 30 08:54	12° ∡ 05′32	20°09'03	retrograde	14712 Oct 21 00:56	28° ™ 05'43	
desc. node	14711 Nov 05 02:37	16° ∡ 16'35		desc. node	14712 Oct 21 23:58	28°ML02'48	
retrograde	14711 Nov 09 23:37	17° ∡ ¹22'32		evening set	14712 Oct 22 21:49	27°M54'48	
evening set	14711 Nov 12 02:09	17° ∡ 11'02		inferior conj	14712 Oct 31 08:18	23°M41'05	-2°56'46
inferior conj	14711 Nov 20 23:04	13° ∡ 13'48	-4°38'36	minimum elong	14712 Oct 31 00:54	23°M53'43	
minimum elong	14711 Nov 20 12:58	13° x ¹28'52	4°34'51	min. Earth dist.	14712 Nov 03 03:08	21°M47'28	0.56130 AU
min. Earth dist.	14711 Nov 20 12:38	13 × 28 32 12°× 12'16	0.54859 AU		14712 Nov 08 01:20	19°M02'27	0.50150 AC
			0.34839 AU	morning rise			
morning rise	14711 Nov 28 22:54	9° ∡ ′08′12		direct	14712 Nov 13 16:00	17° ™ 49'26	
direct	14711 Dec 03 17:43	8° ≯ 18'33		morning max el	14712 Nov 27 18:28	25° ™ 00'41	25°52'01
morning max el	14711 Dec 17 08:02	15° ∡ 00'43	24°08'54		14712 Dec 02 09:43	0° ∡ ¹	
	14711 Dec 29 01:14	0°₹		asc. node	14712 Dec 16 09:41	21° ∡ 08′07	
asc. node	14711 Dec 30 12:36	2° る 24'23			14712 Dec 21 00:55	0°ರ	
morning set	14712 Jan 11 01:41	24° る 44'29		morning set	14712 Dec 25 13:02	9° පි 23'06	
	14712 Jan 13 11:56	0° ≈ ≈					
				superior conj	14713 Jan 01 07:03	24° ප 16'07	1°37'57
superior conj	14712 Jan 17 21:07	9° ≈ 36'00	1°34'20	minimum elong	14713 Jan 01 07:09	24° る 16'40	1°38'55
		9° ≈ 42'23	1°35'07	max. Earth dist.	14713 Jan 02 12:26	26°る59'00	1.31602 AU
minimum elong	14712 Jan 17 22:17			max. Earm dist.			1.51002 AU
max. Earth dist.	14712 Jan 20 07:58	14°≈54'34	1.32588 AU		14713 Jan 03 21:18	0° ≈	
evening rise	14712 Jan 25 10:11	25° ≈ 31'52		evening rise	14713 Jan 08 08:54	9° ≈ 36'53	
	14712 Jan 27 16:09	0° ∀		desc. node	14713 Jan 17 22:50	28° ≈ 08'59	
desc. node	14712 Feb 01 02:10	8°) €20'31			14713 Jan 19 00:06	0°) €	
	14712 Feb 14 08:58	0 ° Υ		evening max el	14713 Feb 09 15:34	29° ∺ 39'09	27°30'26
evening max el	14712 Feb 28 06:00	16° Ƴ 54'59	27°31'13		14713 Feb 10 00:24	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	14712 Mar 13 00:16	24° Y '23'37		retrograde	14713 Feb 23 14:07	7° Y ′01'35	
evening set	14712 Mar 19 19:32	21° Y ′57'44		evening set	14713 Mar 02 10:48	4° Ƴ 48'54	
min. Earth dist.	14712 Mar 23 14:41	18° Ƴ 38'34	0.63814 AU	min. Earth dist.	14713 Mar 06 05:13	1° Y ′54'18	0.61712 AU
inferior conj	14712 Mar 26 07:21	15° Υ 51'34		mm. Lattii dist.	14713 Mar 08 07:27	30°R ₩	0.01712710
		15° Υ 49'52		: <i>c</i> :		29° ₩ 06'01	1027115
minimum elong	14712 Mar 26 08:00		0°20'53	inferior conj	14713 Mar 09 06:47		
asc. node	14712 Mar 27 09:29	14° Y 44'39		minimum elong	14713 Mar 09 10:13		1°35'43
morning rise	14712 Apr 01 22:47	10° Y ′32'58		asc. node	14713 Mar 14 06:58	25° ∺ 06'46	
direct	14712 Apr 04 10:05	10° Y 02'35		morning rise	14713 Mar 16 12:39	24° ₭ 05'08	
morning max el	14712 Apr 10 19:53	13° Ƴ 19'38	17°47'49	direct	14713 Mar 18 17:12	23°) (44′07	
	14712 Apr 22 11:54	0° 8		morning max el	14713 Mar 25 13:02	27° ¥ 10'43	17°49'13
morning set	14712 Apr 27 12:17	8° 8 29'17			14713 Mar 28 01:24	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	14712 Apr 29 04:25	11° 8 19'40		morning set	14713 Apr 10 06:47	21° Y '33'25	
***************************************					14713 Apr 15 00:44	0°8	
superior conj	14712 May 10 11:22	0° Ⅱ 05'19	-1°21'18	desc. node	14713 Apr 16 01:02	1° 8 46'54	
	•			desc. Hode	14/13 Apr 10 01.02	1 04034	
minimum elong	14712 May 10 03:32	29° 8 33'36	1-21-10		14712 4 21 11 42		00.4040
	14712 May 10 10:03	0°Щ		superior conj	14713 Apr 21 11:43	11° 8 11'14	
max. Earth dist.	14712 May 15 22:32		1.45018 AU	minimum elong	14713 Apr 21 07:44	10° 8 54'19	
evening rise	14712 May 26 00:09	24° Ⅲ 30′17		max. Earth dist.	14713 Apr 28 14:43	_	1.43587 AU
	14712 May 29 14:46	0 \circ \odot			14713 May 02 23:31	Π \circ 0	
	14712 Jun 19 16:47	$0^{\circ}\Omega$		evening rise	14713 May 05 16:05	4° Ⅱ 13'17	
evening max el	14712 Jun 23 03:30	3° Ω 49'39	20°21'30		14713 May 22 23:55	0 \circ \odot	
asc. node	14712 Jun 23 07:12	3° Ω 58′50		evening max el	14713 Jun 06 00:27	17° 5 340'43	21°32'48
retrograde	14712 Jul 01 01:23	8° Ω 21'11		asc. node	14713 Jun 10 04:11	21°©11'42	
evening set	14712 Jul 05 02:43	6° Ω 47'14		retrograde	14713 Jun 14 23:59	22°955'05	
inferior conj	14712 Jul 10 09:02	0° Ω 43'08	3°09'56	evening set	14713 Jun 19 12:07	21° 5 04'18	
minimum elong	14712 Jul 10 09:23	0° Ω 41'59	3°09'00	inferior conj	14713 Jun 24 17:55	14°9549'17	3°08'03
minimum clong	14712 Jul 10 21:38	30°R.55	3 07 00		14713 Jun 24 17:18	14° © 51'29	3°07'01
min Footh diet		30 k≌ 29°€40'05	0.68310 AU	minimum elong min. Earth dist.			
min. Earth dist.	14712 Jul 11 03:27		0.08310 AU		14713 Jun 24 22:54	14°931'56	0.68907 AU
morning rise	14712 Jul 15 15:44	24°9520'53		morning rise	14713 Jun 29 22:16	8° © 32'29	
direct	14712 Jul 21 04:04	21° © 55'43		direct	14713 Jul 04 22:10	6° ॐ 23'25	
desc. node	14712 Jul 26 03:45	23° © 30'25		desc. node	14713 Jul 13 01:04	10° © 31'29	
morning max el	14712 Aug 01 09:55	28° © 39'19	24°12'56	morning max el	14713 Jul 14 21:33	12° © 17'17	22°43'29
	14712 Aug 02 16:55	$0^{\circ}\Omega$			14713 Jul 29 01:26	$0^{\circ}\Omega$	
	14712 Aug 24 21:37	0° ™		morning set	14713 Aug 17 19:33	0° ™ 05'45	
morning set	14712 Sep 05 20:22	19° m 28'59			14713 Aug 17 18:08	0° m	
max. Earth dist.	14712 Sep 09 12:14	25° m 54'33	1.38145 AU	max. Earth dist.	14713 Aug 22 11:48		1.40517 AU
Zurur dibt.	14712 Sep 05 12:14 14712 Sep 11 18:35	0∘ ⊽		Zartir dibt.			
	17/12 Sep 11 10.33	· –		superior conj	14713 Aug 30 08:03	21° m 39'19	_0°58'56
aumani ·	14712 9 16 10 12	00 0 2 4102	0022110		•	=	
superior conj	14712 Sep 16 19:12	9° £ 24'03		minimum elong	14713 Aug 30 12:35	21° m 59'50	0 3828
minimum elong	14712 Sep 16 20:48	9° £ 31'41	0~22'49		14713 Sep 03 20:54	0° ™	
asc. node	14712 Sep 19 08:39	14° ≏ 20'48		asc. node	14713 Sep 06 05:12	4° ≏ 24'24	
evening rise	14712 Sep 25 13:00	26° ≏ 33'07		evening rise	14713 Sep 09 06:02	10° ≏ 09'15	
	14712 Sep 27 06:58	0° M			14713 Sep 20 12:37	0° M	
evening max el	14712 Oct 12 00:56	23°M34'25	19°06'11	evening max el	14713 Sep 25 04:32	5° M 49′22	18°25'19

ratra ara da	14713 Oct 02 21:29	9° M ₊43'53		aga mada	14714 Ava 24 01:46	24° m/20'14	
retrograde				asc. node	14714 Aug 24 01:46		
evening set	14713 Oct 04 21:41	9°M28'40			14714 Aug 27 05:27	0° ⊽	10005104
desc. node	14713 Oct 08 21:25	7°M39'13	1011100	evening max el	14714 Sep 08 15:34	18° ≏ 41'26	18°05'04
inferior conj	14713 Oct 12 14:59	4° M ₅54'14		retrograde	14714 Sep 15 11:49	22° ≏ 12'01	
minimum elong	14713 Oct 12 12:13	4° ጤ 59'46	1°09'51	evening set	14714 Sep 17 19:09	21° ≏ 48'20	
min. Earth dist.	14713 Oct 15 20:56	2° ™ 19'30	0.58035 AU	inferior conj	14714 Sep 24 18:43	16° ≏ 53'35	0°18'46
	14713 Oct 19 07:15	30° ₹ Ω		minimum elong	14714 Sep 24 19:20	16° ≏ 52'10	0°18'43
morning rise	14713 Oct 19 23:15	29° ≏ 38'01		desc. node	14714 Sep 25 18:56	15° ≏ 57'07	
direct	14713 Oct 26 04:34	27° ≏ 58'06		min. Earth dist.	14714 Sep 27 23:35	13° ≏ 56'38	0.60273 AU
	14713 Nov 02 06:56	0° M		morning rise	14714 Oct 01 16:18	11° ഫ 06′00	
morning max el	14713 Nov 09 11:50	5°M33'03	27°10'25	direct	14714 Oct 08 06:19	9° ഫ 00'11	
	14713 Nov 27 13:04	0° ∡ ¹		morning max el	14714 Oct 22 13:01	16° ≙ 52'08	27°52'31
asc. node	14713 Dec 03 06:40	10° ∡ ¹22'12			14714 Nov 02 10:04	0° M .	
morning set	14713 Dec 09 21:59	23° ∡ 50'48		asc. node	14714 Nov 20 03:33	29°M58'24	
Ü	14713 Dec 12 18:01	0°₹			14714 Nov 20 03:53	0° ∡ ¹	
				morning set	14714 Nov 24 02:43	8° ∡ ′03′18	
superior conj	14713 Dec 16 18:31	8° る 57'00	1°35'34	max. Earth dist.	14714 Nov 30 03:38	21° ∡ ¹08'50	1.31200 AU
minimum elong	14713 Dec 16 17:36			man. Baran dist.	11,711110, 20 03.20	21 % 0000	1.51200110
max. Earth dist.	14713 Dec 16 17:30	9° ろ 06'18	1.31132 AU	superior conj	14714 Dec 01 05:41	23° х 33'49	1°27'17
	14713 Dec 10 20.11 14713 Dec 23 13:38	9 300 18 23°る55'02	1.31132 AU			23° x 23'58	1°28'07
evening rise				minimum elong	14714 Dec 01 03:55		1-2807
	14713 Dec 26 11:26	0° ≈			14714 Dec 04 02:57	0°る	
desc. node	14714 Jan 04 19:36	17°≈29'55		evening rise	14714 Dec 07 22:18	8° る 21'49	
	14714 Jan 12 22:18	0° ∀			14714 Dec 18 22:27	0° ≈	
evening max el	14714 Jan 22 19:09	11°) 35′43	26°55'13	desc. node	14714 Dec 22 16:30	6° ≈ 13′10	
retrograde	14714 Feb 05 18:57	18° ¥ 48'58		evening max el	14715 Jan 04 14:45	22° ≈ 39'46	25°46'21
evening set	14714 Feb 12 10:12	16° ¥ 57'01		retrograde	14715 Jan 18 12:53	29° ≈ 41'27	
min. Earth dist.	14714 Feb 16 09:13	14° ∺ 17'30	0.59494 AU	evening set	14715 Jan 24 13:52	28° ≈ 16'43	
inferior conj	14714 Feb 19 14:09	11°) (43′58	-3°02'33	min. Earth dist.	14715 Jan 29 03:38	25° ≈ 38'16	0.57391 AU
minimum elong	14714 Feb 19 20:55	11° ∺ 30′26	2°59'38	inferior conj	14715 Feb 01 02:03	23° ≈ 36′21	-4°27'58
morning rise	14714 Feb 27 11:00	7° ∺ 03'39		minimum elong	14715 Feb 01 11:06	23° ≈ 20'39	4°24'41
direct	14714 Mar 01 11:21	6°) 48′30		morning rise	14715 Feb 09 11:13	19° ≈ 17'40	
asc. node	14714 Mar 01 04:26	6°) 48'49		direct	14715 Feb 11 12:20	19° ≈ 04'39	
morning max el	14714 Mar 09 02:19	10°) 35′42	18°09'34	asc. node	14715 Feb 16 01:53	20°≈13'32	
	14714 Mar 21 20:18	0° Y		morning max el	14715 Feb 20 07:39	23° ≈ 23'05	18°50'38
morning set	14714 Mar 24 17:09	5° Y ′20′23			14715 Feb 25 15:38	0° ∀	
desc. node	14714 Apr 02 21:36	22° Y 19'21		morning set	14715 Mar 08 14:32	19° ¥ 35'56	
acco. noac	11/11/1p: 02 21:50	, 1, _1		morning sec	14715 Mar 13 22:14	0°Υ	
superior conj	14714 Apr 03 11:08	23° Y ′20'08	-0°04'36		11/13 Wai 13 22.11	0 1	
minimum elong	14714 Apr 03 10:45	23° Y 18'25		superior conj	14715 Mar 17 05:41	6° Y 20'33	0020142
_		23°\bar{1623} 22°\bar{45'39}	0 04 31	1 3	14715 Mar 17 03:41	6° Υ 29'03	0°28'25
behind sun begin	14714 Apr 03 03:27	23° Y 51'07		minimum elong		12° Υ 53'30	0 2823
behind sun end	14714 Apr 03 18:03			desc. node	14715 Mar 20 18:07		1 20 422 4 11
P. J. P.	14714 Apr 07 05:48	0°8	1 11 650 1 77	max. Earth dist.	14715 Mar 24 08:54	19° Y 23'32	1.39432 AU
max. Earth dist.	14714 Apr 11 01:54	6° 8 33'30	1.41652 AU	evening rise	14715 Mar 28 06:52	26° Y 10′01	
evening rise	14714 Apr 16 00:52	14° 8 43'43			14715 Mar 30 13:42	0° 8	
	14714 Apr 25 20:06	Π \circ 0			14715 Apr 19 11:06	0°Щ	
	14714 May 18 05:10	0 \circ		evening max el	14715 May 02 06:49	15° Ⅱ 25'42	24°13'15
evening max el	14714 May 19 16:48	1° © 32'15	22°52'02	retrograde	14715 May 13 14:18	22° Ⅱ 03'29	
asc. node	14714 May 28 01:18	7° © 16'31		asc. node	14715 May 14 22:31	21° Ⅱ 55'37	
retrograde	14714 May 29 20:45	7° © 31'07		evening set	14715 May 19 01:18	19° Ⅱ 44'55	
evening set	14714 Jun 03 20:12	5° 5 25'09		min. Earth dist.	14715 May 23 15:54	14° Ⅱ 25'38	0.68656 AU
	14714 Jun 08 10:52	30° Ŗ Ⅱ		inferior conj	14715 May 24 12:36	13° Ⅱ 15'37	2°32'46
inferior conj	14714 Jun 09 03:45	29° Ⅱ 01′25	2°55'35	minimum elong	14715 May 24 10:36	13° Ⅲ 22'24	2°31'21
minimum elong	14714 Jun 09 02:18	29° Ⅱ 06′27	2°54'21	morning rise	14715 May 29 19:59	7° Ⅱ 14'09	
min. Earth dist.	14714 Jun 08 19:46	29° Ⅲ 29'10	0.69018 AU	direct	14715 Jun 02 19:13	5° Ⅱ 44'25	
morning rise	14714 Jun 14 08:19	22° II 51'38		morning max el	14715 Jun 10 11:00	10° Ⅱ 02'09	20°04'24
direct	14714 Jun 18 19:39	21° Ⅱ 01'43		desc. node	14715 Jun 16 19:23	17° Ⅲ 29'31	
morning max el	14714 Jun 27 13:05	26° I I04'23	21°18'34		14715 Jun 25 16:47	0°95	
desc. node	14714 Jun 29 22:17	28° II 36'56		morning set	14715 Jul 07 23:27	18°930'25	
acse. node	14714 Jul 01 03:01	0°95		morning set	14715 Jul 15 08:47	18 3 5025	
	14714 Jul 22 12:19	0°€ 0°€		max. Earth dist.	14715 Jul 18 03:34		1.44429 AU
marning act				max. Datui uist.	14/13 Jul 16 U3:34	+ 062412	1. 111 27 AU
morning set	14714 Jul 28 18:24	9° Ω 40'10	1 42600 177		14715 1 1 22 17 22	120 02222	2000145
max. Earth dist.	14714 Aug 04 16:25	20° Ω 44'51	1.42690 AU	superior conj	14715 Jul 23 17:36	13° Ω 23'23	
	14714 Aug 10 06:00	0° m)		minimum elong	14715 Jul 24 00:27	13° Ω 51'17	2~01'06
					14715 Aug 02 16:55	0° m)	
superior conj	14714 Aug 12 00:34	3°Mp01'06		evening rise	14715 Aug 05 21:03	5° Mg 25'07	
minimum elong	14714 Aug 12 07:40	3°m/31'32	1°33'08	asc. node	14715 Aug 10 22:22	14° m 03'32	
evening rise	14714 Aug 23 10:24	23° m 10'57			14715 Aug 21 10:07	0∘ ⊽	

avanina may al	14715 Aug 22 05:54	19 0 50125	10002155		14716 Iul 25 12:52	00 m s	
evening max el	14715 Aug 23 05:54	1° £ 59'35 5° £ 20'06	18°03'55	asc. node	14716 Jul 25 13:52 14716 Jul 27 19:03	0° Mp 3° Mp 29′35	
retrograde evening set	14715 Aug 29 15:51 14715 Sep 01 07:33	ა = 2000 4° £ 44'24		evening max el	14716 Aug 05 20:07	15° m) 35'29	18°20'49
evening set	14715 Sep 07 04:52	4 ==44 24 30°R Mb		retrograde	14716 Aug 12 05:23	18° m 59'43	18 20 49
inferior conj	14715 Sep 07 04:52 14715 Sep 07 15:53	29° m) 31'05	1°28'07	evening set	14716 Aug 15 05:51	18° m 09'19	
minimum elong	14715 Sep 07 18:03	29° m/25'22	1°27'16	inferior conj	14716 Aug 21 02:33	12° Mp 39'31	2°17'12
min. Earth dist.	14715 Sep 07 10:05	26° M 33'22	0.62556 AU	minimum elong	14716 Aug 21 02:55	12° Mp 32'34	2°16'10
desc. node	14715 Sep 12 16:28	24° m/29'18	0.02000110	min. Earth dist.	14716 Aug 23 09:22	9° m 59'40	0.64655 AU
morning rise	14715 Sep 14 02:16	23° m/22'14		morning rise	14716 Aug 27 02:34	6° m 18'44	
direct	14715 Sep 20 18:37	20° m 56'37		desc. node	14716 Aug 29 13:59	4° m) 41'37	
morning max el	14715 Oct 04 20:01	28° m 56'24	27°55'32	direct	14716 Sep 02 15:29	3° mp 42'11	
C	14715 Oct 05 20:57	0∘ <u>⊽</u>		morning max el	14716 Sep 16 06:23	11° m)38'53	27°23'03
	14715 Oct 27 08:02	0° M .		C	14716 Sep 30 21:16	0∘ ⊽	
asc. node	14715 Nov 07 00:20	19° M 49'34			14716 Oct 18 20:13	0°M	
morning set	14715 Nov 08 01:01	21°M54'27		morning set	14716 Oct 21 14:21	5°M18'29	
	14715 Nov 11 22:00	0° ∡ ¹		asc. node	14716 Oct 23 21:02	9°M50'42	
max. Earth dist.	14715 Nov 13 06:55	2° ∡ 756'52	1.31815 AU	max. Earth dist.	14716 Oct 26 02:40	14°M24'57	1.32983 AU
superior conj	14715 Nov 15 14:36	8° ₹ 100′26	1°13'07	superior conj	14716 Oct 29 19:09	22°M11'17	0°53'04
minimum elong	14715 Nov 15 12:20	7° ∡¹ 48'03	1°13'42	minimum elong	14716 Oct 29 16:56	21°M59'25	0°53'26
evening rise	14715 Nov 22 08:58	22° ≯ 51'44			14716 Nov 02 10:05	0° ∡ ¹	
	14715 Nov 25 18:03	ව°0		evening rise	14716 Nov 05 19:48	7° ∡ ¹20'11	
desc. node	14715 Dec 09 13:30	24° る 04'20			14716 Nov 17 15:09	0°₹	
	14715 Dec 14 06:27	0° ≈		desc. node	14716 Nov 25 10:36	10° る 44'22	
evening max el	14715 Dec 17 02:48	2° ≈ 58'09	24°12'25	evening max el	14716 Nov 27 12:54	12° る 56'01	22°29'30
retrograde	14715 Dec 30 17:39	9° ≈ 44'31		retrograde	14716 Dec 10 09:41	19° る 18'31	
evening set	14716 Jan 04 18:26	8° ≈ 49'17		evening set	14716 Dec 14 02:44	18° ප් 48'22	
min. Earth dist.	14716 Jan 10 14:25	5° ≈ 54'43	0.55680 AU	min. Earth dist.	14716 Dec 21 20:35	15° ප 18'43	0.54649 AU
inferior conj	14716 Jan 12 17:01	4° ≈ 37'45		inferior conj	14716 Dec 22 14:31	14°₹53'29	
minimum elong	14716 Jan 13 00:04	4°≈27'00	5°33'25	minimum elong	14716 Dec 22 13:37	14°る54'46	5°58'41
morning rise	14716 Jan 21 07:32	0°≈38'38		morning rise	14716 Dec 31 01:41	11°る06'05	
direct	14716 Jan 23 18:01	0°≈23'12		direct	14717 Jan 03 07:15	10°る42'27	21021111
asc. node	14716 Feb 02 23:16	5°≈17'20	10054124	morning max el	14717 Jan 15 03:24	16°る23'31	21°21'11
morning max el	14716 Feb 03 00:54	5°≈21'17	19°54'24	asc. node	14717 Jan 19 20:36	21°る44'14	
	14716 Feb 18 17:41	0° ∺ 4° ∺ 09'25			14717 Jan 25 08:56	0° ≈ 18° ≈ 52'06	
morning set	14716 Feb 20 19:15	4 X 0923		morning set	14717 Feb 04 04:27 14717 Feb 09 11:20	0° H	
superior conj	14716 Feb 28 14:52	20° ₩ 00'03	0°55'41		14/1/160 09 11.20	0 /	
minimum elong	14716 Feb 28 17:29	20° X 13'03	0°55'34	superior conj	14717 Feb 11 10:41	4°) €07'20	1°15'54
minimum ciong	14716 Mar 04 18:34	0° Υ	0 33 34	minimum elong	14717 Feb 11 13:09		1°16'08
max. Earth dist.	14716 Mar 05 15:25	1° Y 37'56	1.37171 AU	max. Earth dist.	14717 Feb 16 01:57	13°) €32'33	1.35093 AU
desc. node	14716 Mar 06 14:38	3° Υ 25'49	1.57171110	evening rise	14717 Feb 20 03:39	21° X 25'00	1.55075110
evening rise	14716 Mar 09 08:53	8° Υ 27'04		desc. node	14717 Feb 21 11:08	23°) 52'03	
	14716 Mar 22 08:33	0°8			14717 Feb 24 20:25	0° Υ	
evening max el	14716 Apr 13 20:27	29° 8 19'51	25°29'28		14717 Mar 16 04:57	0°8	
Č	14716 Apr 14 13:04	0° I I		evening max el	14717 Mar 27 10:12	13° 8 07'34	26°33'19
retrograde	14716 Apr 26 03:29	6° Ⅱ 26'07		retrograde	14717 Apr 09 11:21	20° 8 30'52	
asc. node	14716 Apr 30 19:48	4° Ⅱ 55'11		evening set	14717 Apr 15 19:55	17° 8 58'44	
evening set	14716 May 02 01:49	3° Ⅱ 58′29		asc. node	14717 Apr 17 17:11	16° 8 14'53	
	14716 May 05 18:59	30° ₹ 8		min. Earth dist.	14717 Apr 19 21:15	13° 8 50'43	0.66573 AU
min. Earth dist.	14716 May 06 09:08	29° 8 15'28	0.67832 AU	inferior conj	14717 Apr 21 19:25	11° 8 32'11	1°14'29
inferior conj	14716 May 07 18:33	27° 8 27'52	1°59'18	minimum elong	14717 Apr 21 17:42	11° 8 37'22	1°13'17
minimum elong	14716 May 07 16:24	27° 8 34'49	1°57'52	morning rise	14717 Apr 27 16:31	5° 8 51'49	
morning rise	14716 May 13 07:25	21° 8 36'06		direct	14717 Apr 30 17:56	4° 8 59'32	
direct	14716 May 16 19:18	20° 8 26'01		morning max el	14717 May 07 04:20	8° 8 23'30	18°21'32
morning max el	14716 May 23 16:24	24° 8 10'17	19°04'51	desc. node	14717 May 20 13:10	26° 8 48'30	
	14716 May 28 16:39	0°II			14717 May 22 13:49	0°Ⅱ 5°Ⅱ3€151	
desc. node	14716 Jun 02 16:21	6° Ⅱ 56'44	0.7	morning set	14717 May 27 06:34	7° Ⅱ 26'51	
greatest brilliancy	14716 Jun 05 17:28	11° II 27'07	-0.7m		14717 Jun 10 14:20	0ං ව	
morning set	14716 Jun 16 05:05	27° II 28'38			14717 1 2 2 2 2	20502100	2007142
E d T	14716 Jun 17 20:16	0°9	1 45545 433	superior conj	14717 Jun 11 21:36	2°502'00	
max. Earth dist.	14716 Jun 29 20:38	18°941'00	1.45545 AU	minimum elong	14717 Jun 11 15:25	1°937'54	
aumonia '				max. Earth dist.	14717 Jun 12 16:43	3° © 16'36	1.45926 AU
superior conj	14716 1-1 00 10 00	2200554110	2012124	avramin:	14717 I 27 20 10	2600=55155	
minimum alana	14716 Jul 02 13:06	22°554'10		evening rise	14717 Jun 27 20:18	26°955'55	
minimum elong	14716 Jul 02 14:29	22° © 59'39			14717 Jun 29 19:19	$0^{\circ}\Omega$	0.855
minimum elong evening rise				evening rise greatest brilliancy asc. node			-0.8m

evening max el	14717 Jul 20 07:18	29° Ω 21'22	18°55'10	greatest brilliancy	14718 Jun 21 19:55	28° © 00'58	-0.6m
8	14717 Jul 20 23:26	0° m)			14718 Jun 23 04:50	$0^{\circ}\Omega$	
retrograde	14717 Jul 27 00:48	3° m/02'43		asc. node	14718 Jul 01 12:37	11° Ω 00′15	
evening set	14717 Jul 30 10:24	1° m 55'58		evening max el	14718 Jul 03 13:25	13° Ω 11′24	19°45'50
	14717 Aug 01 17:21	30°R Ω		retrograde	14718 Jul 10 23:09	17° Ω 22'06	
inferior conj	14717 Aug 04 23:01	26° Ω 11'35	2°48'49	evening set	14718 Jul 14 18:28	15° Ω 58'13	
minimum elong	14717 Aug 05 00:50	26° Ω 05'49	2°47'52	inferior conj	14718 Jul 20 02:15	10° Ω 00'51	3°05'52
min. Earth dist.	14717 Aug 06 15:35	24° Ω 03′09	0.66411 AU	minimum elong	14718 Jul 20 03:10	9° Ω 57'47	3°04'58
morning rise	14717 Aug 10 14:29	19° Ω 46′13		min. Earth dist.	14718 Jul 21 04:38	8° Ω 32'22	0.67745 AU
desc. node	14717 Aug 16 11:27	17° Ω 08'19		morning rise	14718 Jul 25 11:25	3° Ω 36'11	
direct	14717 Aug 16 19:45	17° Ω 07'52		direct	14718 Jul 31 06:21	1° Ω 04'10	
morning max el	14717 Aug 29 17:50	24° Ω 48′28	26°22'33	desc. node	14718 Aug 03 08:52	1° Ω 41′00	
	14717 Sep 03 10:49	0° m)		morning max el	14718 Aug 12 04:43	8° Ω 13'19	25°03'10
	14717 Sep 24 08:06	0∘ ত			14718 Aug 29 07:00	0° ™	
morning set	14717 Oct 04 15:34	18° ≏ 08'41			14718 Sep 16 21:18	0∘ ত	
max. Earth dist.	14717 Oct 08 12:46	25° △ 35'12	1.34675 AU	morning set	14718 Sep 17 00:45	0° ≏ 15'20	
asc. node	14717 Oct 10 17:41	29° ≏ 57'42		max. Earth dist.	14718 Sep 20 14:06	6° ≏ 41'53	1.36797 AU
	14717 Oct 10 18:08	0° M			14710 0 27 04 50	100 0 20122	000212.4
	14717 0 + 12 16 50	60 M 0012.5	0007100	superior conj	14718 Sep 27 04:59	19° £ 20'32	
superior conj	14717 Oct 13 16:58	6°M00'35	0°27'20	minimum elong	14718 Sep 27 05:11	19° Ω 21'34	0°03'18
minimum elong	14717 Oct 13 15:31	5°M53'05	0°27'34	behind sun begin behind sun end	14718 Sep 26 22:49	18° ♀ 50'09 19° ♀ 53'02	
evening rise	14717 Oct 21 04:54 14717 Oct 25 06:09	21°M.42'39 0°⊀		asc. node	14718 Sep 27 11:34	19° ≥ 233'02 20° ₽ 06'16	
evening max el	14717 Oct 23 06.09 14717 Nov 09 06:47	0 x . 23° ∡ 11'47	20°55'02	asc. node	14718 Sep 27 14:15 14718 Oct 02 12:31	0°M	
desc. node	14717 Nov 09 00.47 14717 Nov 12 07:48	25° x 11 47	20 33 02	evening rise	14718 Oct 02 12:31 14718 Oct 05 10:01	5°M52'47	
retrograde	14717 Nov 12 07:48	28° x 56'21		evening rise	14718 Oct 19 00:33	0° x ⁷	
evening set	14717 Nov 20 20:11 14717 Nov 23 08:33	28° x 3021 28° x 41'13		evening max el	14718 Oct 19 00:33	4° ∡ 11'59	10°30'35
inferior conj	14717 Dec 02 05:35	24°×748'13	-5°23'52	desc. node	14718 Oct 22 14:40	8° × 53'32	17 37 33
minimum elong	14717 Dec 02 09:59	25°×7'00'41	5°21'11	retrograde	14718 Nov 01 12:45	9°×709'18	
min. Earth dist.	14717 Dec 03 02:15	24°×718'45	0.54503 AU	evening set	14718 Nov 03 11:03	8° ∡ 58'54	
morning rise	14717 Dec 10 09:21	20°×755'07	0.5 1505 710	inferior conj	14718 Nov 12 04:51	4° ₹ 55'44	-3°57'37
direct	14717 Dec 14 14:32	20° х 17′00		minimum elong	14718 Nov 11 19:20	5° х 10'42	
morning max el	14717 Dec 27 17:22	26° ₹ ³38'51	23°05'49	min. Earth dist.	14718 Nov 14 10:47	3° ∡ ′31′01	0.55298 AU
Ü	14717 Dec 30 22:01	ರ°0		morning rise	14718 Nov 20 01:49	0° ∡ ³37'01	
asc. node	14718 Jan 06 17:50	9° ප 16'21		Ü	14718 Nov 22 02:38	30°RM	
	14718 Jan 17 22:42	0° ≈		direct	14718 Nov 25 05:26	29°M38'01	
morning set	14718 Jan 19 15:57	3° ≈ 37'35			14718 Nov 28 07:49	0° ∡ ¹	
				morning max el	14718 Dec 09 02:32	6° ∡ ³34'11	24°54'45
superior conj	14718 Jan 26 14:01	18° ≈ 33'33	1°29'27	asc. node	14718 Dec 24 14:59	27° ∡ ³37′22	
minimum elong	14718 Jan 26 15:45	18° ≈ 42'51	1°30'03		14718 Dec 25 23:12	ರ∘ರ	
max. Earth dist.	14718 Jan 29 19:24	25° ≈ 24'02	1.33369 AU	morning set	14719 Jan 04 03:50	18° る 19'35	
	14718 Feb 01 00:50	0°) €			14719 Jan 09 11:41	0°≈	
evening rise	14718 Feb 03 11:43	4° ¥ 55'17					
desc. node	14718 Feb 08 07:43	14° ∺ 08'13		superior conj	14719 Jan 10 22:10	3° ≈ 10'11	1°36'37
	14718 Feb 17 13:53	0° Υ		minimum elong	14719 Jan 10 22:53	3° ≈ 14'10	1°37'30
evening max el	14718 Mar 09 23:33	26° Y ′39'39	27°17'25	max. Earth dist.	14719 Jan 12 20:06	7° ≈ 21'45	1.32100 AU
	14718 Mar 13 19:21	0° 8		evening rise	14719 Jan 18 05:51	18° ≈ 49'15	
retrograde	14718 Mar 23 13:09	4°809'34		1 1	14719 Jan 23 22:25	0°) {	
evening set	14718 Mar 30 05:37	1° 8 39'03		desc. node	14719 Jan 26 04:22	4°) €08'22	
i malita	14718 Apr 01 04:10	30°₹ Υ	0.64010.411		14719 Feb 11 20:36	0°Υ 0° Υ 4425	27024152
min. Earth dist.	14718 Apr 03 02:21	28° Y 03'25 26° Y 24'31	0.64919 AU	evening max el	14719 Feb 20 11:06	9° Υ 44'35 17° Υ 12'09	2/°34′53
asc. node	14718 Apr 04 14:35	25° Υ 24° 31° 25° Υ 23° 08°	0°17'32	retrograde	14719 Mar 06 08:01	1/° γ 12·09 14° γ ′50'47	
inferior conj	14718 Apr 05 12:47	25° Y 24'29	0°17'32 0°17'00	evening set min. Earth dist.	14719 Mar 13 04:26 14719 Mar 16 22:43	14 γ 30 4 / 11° γ 42'58	0.62939 AU
minimum elong morning rise	14718 Apr 05 12:17 14718 Apr 11 20:50	19° Υ 56'08	0 1700	inferior conj	14719 Mar 19 19:43	8° Υ 53'16	
direct	14718 Apr 14 12:51	19 γ 30 08		minimum elong	14719 Mar 19 19:43	8° Υ 49'01	0°51'17
morning max el	14718 Apr 20 20:37	22° Υ 35'03	17°55'08	asc. node	14719 Mar 22 12:02	6° Υ 22'31	0 3117
mun or	14718 Apr 26 19:11	0° 8	1, 25 00	morning rise	14719 Mar 26 17:07	3° Υ 42'02	
desc. node	14718 May 07 09:54	16° 8 58'08		direct	14719 Mar 29 01:11	3°Υ16'13	
morning set	14718 May 07 05.54	18° 8 45'28		morning max el	14719 Apr 04 14:23	6° Υ 36'16	17°46'11
	14718 May 15 08:01	0°Ⅱ			14719 Apr 20 00:53	0°8	
		-		morning set	14719 Apr 20 18:31	1° 8 16'31	
superior conj	14718 May 22 12:25	11° Ⅱ 32'54	-1°41'25	desc. node	14719 Apr 24 06:35	7° 8 20'23	
minimum elong	14718 May 22 03:31	10° Ⅲ 57'32			r		
max. Earth dist.	14718 May 26 12:39	17° Ⅲ 52'41	1.45553 AU	superior conj	14719 May 02 23:04	22° 8 00'55	-1°05'07
	14718 Jun 03 07:41	0° ©		minimum elong	14719 May 02 16:44	21° 8 34'47	
evening rise	14718 Jun 07 12:15	6°526'43		Č	14719 May 07 20:40	0°II	
-					•		

		_					
max. Earth dist.	14719 May 09 06:23	2° Ⅱ 15′09	1.44477 AU	evening rise	14720 Apr 26 21:36	25° 8 55'14	
evening rise	14719 May 17 23:29	15° Ⅲ 53'42			14720 Apr 29 12:08	Π $\circ 0$	
	14719 May 27 07:35	0			14720 May 20 04:08	0 \circ	
evening max el	14719 Jun 16 13:41	27° 5 03'04	20°50'37	evening max el	14720 May 29 08:35	10° © 55'04	22°05'57
asc. node	14719 Jun 18 09:33	28° © 45'18		asc. node	14720 Jun 04 06:36	15° © 31'47	
	14719 Jun 19 23:44	$0^{\circ}\Omega$		retrograde	14720 Jun 07 20:02	16° ഇ 28'10	
retrograde	14719 Jun 24 22:10	1° Ω 52'30		evening set	14720 Jun 12 12:56	14° 5 30'49	
evening set	14719 Jun 29 03:55	0° £ 11′30		inferior conj	14720 Jun 17 19:15	8°912'05	3°04'03
•	14719 Jun 29 09:30	30° №		minimum elong	14720 Jun 17 18:15	8° © 15'34	3°02'55
inferior conj	14719 Jul 04 09:43	24° © 02'36	3°10'29	min. Earth dist.	14720 Jun 17 18:44	8° © 13'52	0.69016 AU
minimum elong	14719 Jul 04 09:38	24° © 02'53	3°09'31	morning rise	14720 Jun 22 23:22	1° © 58'06	
min. Earth dist.	14719 Jul 04 22:26	23°9518'36	0.68620 AU	3 2	14720 Jun 26 22:26	30°R Ⅱ	
morning rise	14719 Jul 09 15:05	17°9542'11		direct	14720 Jun 27 18:01	29° Ⅱ 56'40	
direct	14719 Jul 14 22:13	15°923'08		4.1001	14720 Jun 28 13:59	0°9	
desc. node	14719 Jul 21 06:14	17°955'32		morning max el	14720 Jul 07 04:07	5°928'04	22°06'20
morning max el	14719 Jul 25 15:22	21°9546'53	23°34'44	desc. node	14720 Jul 07 03:31	5°926'32	22 00 20
morning max cr	14719 Aug 01 18:33	0°Ω	23 34 44	desc. Hode	14720 Jul 26 00:09	0°Ω	
	•	0°m)		marning got		21° Ω 37'33	
	14719 Aug 22 13:15	-		morning set	14720 Aug 09 02:07		
morning set	14719 Aug 29 13:30	11° Mp 28'04	1 20150 ATT	F 41 F 4	14720 Aug 14 05:04	0° Mp	1 41 400 ATT
max. Earth dist.	14719 Sep 02 12:03	18° m 13'37	1.39158 AU	max. Earth dist.	14720 Aug 14 13:22	0° m 34'34	1.41489 AU
	14719 Sep 09 01:08	0∘ ⊽					
		_		superior conj	14720 Aug 22 08:18	13° m 56'56	
superior conj	14719 Sep 10 03:34	2° ≏ 02'53		minimum elong	14720 Aug 22 14:04	14° m 22'28	1°13'34
minimum elong	14719 Sep 10 06:21	2° ≏ 15'55	0°37'48	asc. node	14720 Aug 31 07:23	0° ჲ 14'09	
asc. node	14719 Sep 14 10:50	10° ≏ 13'09			14720 Aug 31 04:20	0∘ ⊽	
evening rise	14719 Sep 19 08:26	19° ≙ 44'01		evening rise	14720 Sep 01 20:36	3° ≏ 06'47	
	14719 Sep 24 17:39	0° M		evening max el	14720 Sep 17 19:33	28° ≙ 34'35	18°14'16
evening max el	14719 Oct 05 12:14	16°ML02'18	18°46'13		14720 Sep 19 09:39	0° M	
retrograde	14719 Oct 13 21:43	20° ™ 16′04		retrograde	14720 Sep 25 02:08	2°M16'52	
evening set	14719 Oct 15 19:20	20°M03'51		evening set	14720 Sep 27 05:18	1°M58'23	
desc. node	14719 Oct 17 02:31	19°M42'13			14720 Oct 01 03:17	30° ₽ Ω	
inferior conj	14719 Oct 23 22:56	15° M 41'54	-2°11'04	desc. node	14720 Oct 02 24:00	28° ♀ 35'51	
minimum elong	14719 Oct 23 17:32	15°M51'45	2°08'16	inferior conj	14720 Oct 04 14:50	27° ₽ 14'59	-0°30'44
min. Earth dist.	14719 Oct 27 00:27	13° M 28'39	0.56886 AU	minimum elong	14720 Oct 04 13:44	27° ₽ 17'20	0°29'55
morning rise	14719 Oct 31 12:32	10° M ₄47'05		min. Earth dist.	14720 Oct 07 21:32	24° ≏ 28'28	0.58973 AU
direct	14719 Nov 06 10:23	9° ™ 22'25		morning rise	14720 Oct 11 18:47	21° ≏ 44'41	
morning max el	14719 Nov 20 15:21	16° ™ 44'47	26°29'08	direct	14720 Oct 18 04:46	19° £ 53'22	
morning man er	14719 Dec 01 12:21	0° ∡ 7	20 25 00	morning max el	14720 Nov 01 11:56	27° ₽ 35'32	27°33'06
asc. node	14719 Dec 11 12:03	16° ∡ 735′09		morning max cr	14720 Nov 03 19:57	0°M₁	27 33 00
asc. node	14719 Dec 11 12:03	0° る			14720 Nov 24 04:49	0° ∡ 7	
morning set	14719 Dec 19 14:21	2°る53'45		asc. node	14720 Nov 27 09:00	5° ∡ 159'52	
morning set	14/19 DCC 19 14.21	2 03343			14720 Nov 27 03:00 14720 Dec 02 21:45	17° ⋌ 15'44	
aumorior comi	14719 Dec 26 09:00	17° る 51'14	1°37'39	morning set	14720 Dec 02 21:43 14720 Dec 08 17:30	0°る	
superior conj		17 3 31 14	1°38'40		14/20 Dec 08 1/.50	0.0	
minimum elong	14719 Dec 26 08:39				14720 D 00 20 24	20=21110	1022146
max. Earth dist.	14719 Dec 27 02:14	19°る27'20	1.31339 AU	superior conj	14720 Dec 09 20:34		1°32'46
	14719 Dec 31 21:30	0° ≈		minimum elong	14720 Dec 09 19:15		1°33'42
evening rise	14720 Jan 02 07:25	3°≈00'34		max. Earth dist.	14720 Dec 09 10:26	1°る34'39	1.31099 AU
desc. node	14720 Jan 13 01:06	23°≈46'04		evening rise	14720 Dec 16 14:06	17° る 23'36	
	14720 Jan 16 18:03	0°) {			14720 Dec 22 17:45	0° ≈	
evening max el	14720 Feb 02 18:35	22°) 10′03	27°19'51	desc. node	14720 Dec 29 21:55	12°≈52'50	
retrograde	14720 Feb 16 18:19	29° ¥ 28′53			14721 Jan 11 04:19	0° ∀	
evening set	14720 Feb 23 13:22	27° ∺ 24'29		evening max el	14721 Jan 14 19:13	3°) 45′44	26°29'48
min. Earth dist.	14720 Feb 27 09:02	24° ∺ 37′20		retrograde	14721 Jan 28 18:28	10° ¥ 53′23	
inferior conj	14720 Mar 01 12:45	21° ¥ 53′26	-2°12'43	evening set	14721 Feb 04 04:53	9°) 12'41	
minimum elong	14720 Mar 01 17:35	21°) (42′56	2°10'34	min. Earth dist.	14721 Feb 08 08:48	6°) ₹35'33	0.58570 AU
asc. node	14720 Mar 08 09:31	17° ∺ 13'18		inferior conj	14721 Feb 11 12:17	4° 升 13'52	-3°39'36
morning rise	14720 Mar 09 01:02	17°) € 00'44		minimum elong	14721 Feb 11 20:18	3° ¥ 58'45	3°36'21
direct	14720 Mar 11 03:16	16°) 42′43			14721 Feb 18 14:00	30° R ≈	
morning max el	14720 Mar 18 06:18	20°) 17 ′11	17°55'28	morning rise	14721 Feb 19 14:52	29° ≈ 42′28	
	14720 Mar 25 12:05	0 ° Υ		direct	14721 Feb 21 14:56	29° ≈ 28'35	
morning set	14720 Apr 02 20:29	14° Y '41'04		asc. node	14721 Feb 23 06:59	29° ≈ 38'38	
desc. node	14720 Apr 10 03:11	27° Y ′50′19			14721 Feb 24 13:26	0° ∀	
	14720 Apr 11 08:30	0°8		morning max el	14721 Mar 01 16:40	3°) €27'47	18°24'24
	1	-		morning set	14721 Mar 17 12:06	28°) 42'32	
superior conj	14720 Apr 13 09:32	3° 8 34'24	-0°26'03	5	14721 Mar 18 04:19	0°Υ	
minimum elong	14720 Apr 13 07:12	3° 8 24'20					
max. Earth dist.	14720 Apr 20 20:25	_	1.42811 AU	superior conj	14721 Mar 26 17:39	16° Ƴ 07'10	0°10'15
man. Durur Ulst.	11,2011pi 20 20.23	10 01023	1.12011 110	superior conj	11,21 Will 20 17.37	10 10/10	5 10 15

		••				.,	
minimum elong	14721 Mar 26 18:23		0°09'57	superior conj	14722 Mar 09 18:57	29° ∺ 25'51	0°40'58
behind sun begin	14721 Mar 26 12:41	15° Y 44′20		minimum elong	14722 Mar 09 21:14	29° ¥ 36'55	0°40'43
behind sun end	14721 Mar 27 00:05	16° Ƴ 36'37			14722 Mar 10 02:02	0° Y	
desc. node	14721 Mar 27 23:44	18° Ƴ 24'20		desc. node	14722 Mar 14 20:15	8° Ƴ 58'10	
max. Earth dist.	14721 Apr 03 06:08	29° Ƴ 27'49	1.40730 AU	max. Earth dist.	14722 Mar 16 12:33	12° Ƴ 01'55	1.38458 AU
	14721 Apr 03 13:39	8° 0		evening rise	14722 Mar 20 06:07	18° Ƴ 38'25	
evening rise	14721 Apr 07 15:22	6° 8 50'04			14722 Mar 27 00:59	$_{0\circ}$ 8	
	14721 Apr 22 14:23	Π°			14722 Apr 16 20:39	Π°	
evening max el	14721 May 11 23:48	24° Ⅱ 48′08	23°26'41	evening max el	14722 Apr 24 13:18	8° Ⅱ 41'31	24°46'38
	14721 May 18 15:50	0ංම		retrograde	14722 May 06 07:18	15° Ⅱ 33'04	
asc. node	14721 May 22 03:45	1° © 02'49		asc. node	14722 May 09 01:00	15° 耳 00'51	
retrograde	14721 May 22 15:28	1° © 03'53		evening set	14722 May 11 23:18	13° Ⅱ 09'49	
C	14721 May 26 06:51	30°RⅡ		min. Earth dist.	14722 May 16 10:30	8° Ⅱ 06′20	0.68361 AU
evening set	14721 May 27 19:56	28° I 52'04		inferior conj	14722 May 17 12:42	6° Ⅱ 39'19	2°19'54
min. Earth dist.	14721 Jun 01 15:27	23° I I11'58	0.68929 AU	minimum elong	14722 May 17 10:35	6° Ⅱ 46'23	2°18'27
inferior conj	14721 Jun 02 04:53	22° I 125'43	2°47'11	morning rise	14722 May 22 22:07	0° I I42'04	2 10 2 /
minimum elong	14721 Jun 02 03:09	22° I [31'40	2°45'51	morning moe	14722 May 24 01:37	30°R 8	
morning rise	14721 Jun 07 10:20	16° Ⅱ 19'35	2 1331	direct	14722 May 26 16:21	29° 8 21'01	
direct	14721 Jun 11 16:31	14° Ⅱ 38'11		direct	14722 May 29 10:08	0°II	
morning max el	14721 Jun 19 22:08	19° Ⅱ 19'59	20°45'27	morning max el	14722 Jun 02 23:21		19°37'13
desc. node	14721 Jun 24 00:40	23° I 54'03	20 43 27	desc. node	14722 Jun 10 21:41	13° I I02'36	19 37 13
desc. flode	14721 Jun 28 18:06	23 പ 3403 0°			14722 Jun 15 15:44	13 H 02 30 19° H 49'03	-0.6m
		0° U		greatest brilliancy		19° Д 4903	-0.6m
. ,	14721 Jul 19 03:12			. ,	14722 Jun 22 11:31		
morning set	14721 Jul 19 15:55	0° Ω 49'16	1 42506 ATT	morning set	14722 Jun 28 18:37	9°536'07	1 44004 ATT
max. Earth dist.	14721 Jul 27 21:23	13° Ω 49'54	1.43506 AU	max. Earth dist.	14722 Jul 10 11:22	27° © 47'39	1.44984 AU
	14501 4 00 15 01	240 0 5244	1046110		14722 Jul 11 20:51	0 $^{\circ}$ Ω	
superior conj	14721 Aug 03 15:01	24° Ω 53'44				0	
minimum elong	14721 Aug 03 22:33	25° Ω 25'17	1°46'15	superior conj	14722 Jul 14 22:10	4°Ω52'05	
	14721 Aug 06 15:35	0° m)		minimum elong	14722 Jul 15 03:21	5° Ω 12'49	2°09'03
evening rise	14721 Aug 15 18:04	15° m 50'12		evening rise	14722 Jul 28 19:42	27° Ω 41'38	
asc. node	14721 Aug 18 03:58	20° Mg 05'27			14722 Jul 30 04:42	0° m)	
	14721 Aug 23 22:14	0∘ ಹ		asc. node	14722 Aug 05 00:36	9° ™ 42'40	
evening max el	14721 Sep 01 08:22	11° ≏ 38'38	18°02'13	evening max el	14722 Aug 15 23:00	25° Mp 05'38	18°08'53
retrograde	14721 Sep 07 23:00	15° ≙ 03'25		retrograde	14722 Aug 22 07:42	28° Mp 26'28	
evening set	14721 Sep 10 09:49	14° ≏ 34'58		evening set	14722 Aug 25 02:58	27° m 44'55	
inferior conj	14721 Sep 17 02:28	9° ჲ 31'39	0°50'49	inferior conj	14722 Aug 31 05:55	22° m 24'18	1°51'13
minimum elong	14721 Sep 17 03:56	9° ≏ 28'02	0°50'20	minimum elong	14722 Aug 31 08:18	22° M 17'43	1°50'16
desc. node	14721 Sep 19 21:30	6° ₽ 47'27		min. Earth dist.	14722 Sep 02 20:29	19° m 32'02	0.63476 AU
min. Earth dist.	14721 Sep 20 04:02	6° £ 32'06	0.61256 AU	morning rise	14722 Sep 06 11:41	16°M)08′58	
morning rise	14721 Sep 23 19:15	3° ₽ 33'42		desc. node	14722 Sep 06 19:01	15° m 55'17	
direct	14721 Sep 30 10:51	1° ≏ 18'53		direct	14722 Sep 13 03:01	13° m 37'34	
morning max el	14721 Oct 14 16:01	9° ≙ 14'53	27°58'35	morning max el	14722 Sep 27 01:04	21°M)38'22	27°45'44
	14721 Oct 30 17:17	0° M .			14722 Oct 04 08:31	0∘ ত	
asc. node	14721 Nov 14 05:50	25°M43'22			14722 Oct 23 21:03	0° M .	
	14721 Nov 16 08:32	0° ∡ ¹		morning set	14722 Oct 31 18:52	15°ML01'13	
morning set	14721 Nov 17 00:00	1° ∡¹ 19'55		asc. node	14722 Nov 01 02:34	15°MJ39'56	
max. Earth dist.	14721 Nov 22 16:47	13° ∡ ³33'15	1.31395 AU	max. Earth dist.	14722 Nov 05 17:18	25°MJ14'02	1.32242 AU
					14722 Nov 07 22:34	0° ∡ ¹	
superior conj	14721 Nov 24 06:58	17° ∡ 04'15	1°21'59				
minimum elong	14721 Nov 24 04:56	16° ∡ 53′00	1°22'43	superior conj	14722 Nov 08 14:18	1° ∡ °25′21	1°05'20
Č	14721 Nov 30 03:08	0°ರ		minimum elong	14722 Nov 08 11:59	1° ҂ 12'46	1°05'49
evening rise	14721 Nov 30 23:49	1° る 52'21		evening rise	14722 Nov 15 10:47	16° ∡ ¹22'32	
C	14721 Dec 15 22:51	0° ≈		Ü	14722 Nov 22 02:16	0°ರ	
desc. node	14721 Dec 16 18:51	1°≈16'12		desc. node	14722 Dec 03 15:53	18° ප් 40'13	
evening max el	14721 Dec 27 11:10	14°≈28'04	25°08'36	evening max el	14722 Dec 08 21:07	24° ට 33'04	23°28'35
retrograde	14722 Jan 10 06:47	21°≈23'56	20 0000	evening man er	14722 Dec 16 15:43	0°≈	23 2030
evening set	14722 Jan 15 22:58	20°≈11'28		retrograde	14722 Dec 22 06:14	1° ≈ 11'38	
min. Earth dist.	14722 Jan 20 23:14		0.56598 AU	evening set	14722 Dec 26 17:53	0°≈27'57	
inferior conj	14722 Jan 20 25:14 14722 Jan 23 15:11	17 ≈ 2847 15° ≈ 44'34		Storing Sot	14722 Dec 28 01:24	0 ≈2/3/ 30°Rる	
minimum elong	14722 Jan 24 00:08	15 ≈44 34 15°≈29'58		min. Earth dist.	14723 Jan 02 07:42		0.55142 AU
morning rise		13°≈29′38 11°≈35′06	7 3/10	inferior conj	14723 Jan 02 07:42 14723 Jan 03 21:50	26° る 24'51	
•	14722 Feb 01 03:47						
direct	14722 Feb 03 07:46	11°≈21'38		minimum elong	14723 Jan 04 02:06	26° る 18'37	2 21 00
asc. node	14722 Feb 10 04:25	13°≈47'04	1001/150	morning rise	14723 Jan 12 11:55	22°る32'19	
morning max el	14722 Feb 12 17:20	15°≈55'34	19 14 38	direct	14723 Jan 15 05:10	22° る 14'23	20020140
	14722 Feb 22 16:08	0° ₩		morning max el	14723 Jan 26 04:33	27° る 30'46	20 28 40
morning set	14722 Mar 01 12:57	13° ¥ 06′50		asc. node	14723 Jan 28 01:46	29° る 28'28	
					14723 Jan 28 12:50	0° ≈	

16°る25'09

direct

14724 Jan 14 23:02

asc. node

14724 Dec 06 00:02

11°**х** 35'48

retrograde	14728 Aug 31 12:16	8° ഫ 01'14		asc. node	14729 Jul 30 02:50	5° m 17'06	
evening set	14728 Sep 03 02:44	ა = 01 14 7° ჲ 27'27		evening max el	14729 Aug 08 15:54	18° m) 13'45	18°17'09
inferior conj	14728 Sep 03 02.44 14728 Sep 09 13:07	2° £ 16'36	1°18'55	retrograde	14729 Aug 08 13.34 14729 Aug 15 00:44	21° Mp 36'42	18 1/09
minimum elong	14728 Sep 09 15:09	2° £ 10'30	1°18'10	evening set	14729 Aug 13 00.44 14729 Aug 17 23:50	21 11/3642 20° Mp 48'38	
minimum clong	=		1 10 10	-	•	-	2010/55
i. Family dist	14728 Sep 11 17:48	30°RM)	0.62220.411	inferior conj minimum elong	14729 Aug 23 22:02	15° Mp 21'01	2°10'55
min. Earth dist.	14728 Sep 12 10:34	29° Mp 17'51	0.62228 AU	U	14729 Aug 24 00:26	15° Mp 14'04	2°09'54
desc. node	14728 Sep 14 00:01	27° Mp 49'24		min. Earth dist.	14729 Aug 26 06:51	12° M) 37'35	0.64360 AU
morning rise	14728 Sep 16 01:09	26° Mp 10'21		morning rise	14729 Aug 29 23:29	9° Mp 01'21	
direct	14728 Sep 22 17:33	23° Mp 47'18		desc. node	14729 Aug 31 21:32	7° m/43'02	
	14728 Oct 04 23:23	0∘ ⊽	0.55.55.0	direct	14729 Sep 05 13:08	6° m 25'59	25220155
morning max el	14728 Oct 06 19:57	1° £ 46'04	27°57'32	morning max el	14729 Sep 19 06:07	14° Mp 24'00	27°29'55
	14728 Oct 27 14:42	0°M			14729 Oct 01 22:49	0° ™	
asc. node	14728 Nov 08 08:07	21°MJ31'01			14729 Oct 20 06:32	0° M ₊	
morning set	14728 Nov 09 20:00	24°M32'52		morning set	14729 Oct 24 10:50	8° ጤ 01'16	
	14728 Nov 12 10:48	0° ∡		asc. node	14729 Oct 26 04:50	11° M 30'54	
max. Earth dist.	14728 Nov 15 04:38	5° ₹ 53'19	1.31685 AU	max. Earth dist.	14729 Oct 29 01:46	17° M 24'49	1.32773 AU
superior conj	14728 Nov 17 07:43	10° ∡ ³33'01	1°15'39	superior conj	14729 Nov 01 13:04	24°MJ46'21	0°56'30
minimum elong	14728 Nov 17 05:30	10 × 33 01 10° × 20'51	1°16'17	minimum elong	14729 Nov 01 10:48	24°MJ34'11	0°56'53
evening rise	14728 Nov 24 01:32	25° x 23'02	1 1017	minimum ciong	14729 Nov 03 23:05	0° √	0 30 33
evening rise	14728 Nov 26 05:30	23 x 23 02		avaning risa	14729 Nov 08 12:28	9° ∡ ¹51'51	
				evening rise			
desc. node	14728 Dec 10 21:11	26°る08'48		1 1	14729 Nov 18 18:46	0°る	
	14728 Dec 13 17:51	0° ≈	2.402.712.2	desc. node	14729 Nov 27 18:16	13° る 00'44	22044140
evening max el	14728 Dec 19 06:25	6°≈09'40	24°27'32	evening max el	14729 Nov 30 16:04	16°る07'26	22°44'40
retrograde	14729 Jan 01 22:41	12°≈58'31		retrograde	14729 Dec 13 16:28	22° ♂ 34'43	
evening set	14729 Jan 07 03:50	11°≈58'53		evening set	14729 Dec 17 14:26	22° る 01'17	
min. Earth dist.	14729 Jan 12 18:08	9° ≈ 08'09	0.55897 AU	min. Earth dist.	14729 Dec 25 00:39	18° る 38'02	0.54745 AU
inferior conj	14729 Jan 15 00:39	7°≈43'52		inferior conj	14729 Dec 26 00:10	18° る 04'43	
minimum elong	14729 Jan 15 08:25	7° ≈ 31'51	5°25'08	minimum elong	14729 Dec 26 00:42	18° る 03'57	5°58'46
morning rise	14729 Jan 23 14:59	3° ≈ 42'14		morning rise	14730 Jan 03 12:18	14° ට 16'38	
direct	14729 Jan 25 23:30	3° ≈ 27'27		direct	14730 Jan 06 14:26	13° る 54'43	
asc. node	14729 Feb 04 06:54	7° ≈ 37'39		morning max el	14730 Jan 18 05:21	19° る 29'17	21°06'58
morning max el	14729 Feb 05 00:38	8° ≈ 19'03	19°43'23	asc. node	14730 Jan 22 04:15	23° る 52'44	
	14729 Feb 19 04:01	0° ∀			14730 Jan 26 11:50	0° ≈	
morning set	14729 Feb 22 12:27	6° ∺ 39'57		morning set	14730 Feb 06 21:09	21° ≈ 21'32	
					14730 Feb 11 00:04	0° ∀	
superior conj	14729 Mar 02 10:33	22° ∺ 37'13	0°52'01				
minimum elong	14729 Mar 02 13:06	22°) 49'52	0°51'51	superior conj	14730 Feb 14 05:02	6°) 40′57	1°13'15
		$0^{\circ}\mathbf{\Upsilon}$		minimum elong	14730 Feb 14 07:34	6°) 54′00	1°13'25
	14729 Mar 06 05:52	U I			11/50100 11 0/.51	0 /(5100	1 15 20
max. Earth dist.	14729 Mar 06 05:52 14729 Mar 08 15:55	4° Υ 32'29	1.37504 AU	max. Earth dist.	14730 Feb 19 01:30	16° ∺ 28'15	1.35382 AU
max. Earth dist. desc. node			1.37504 AU	C			
	14729 Mar 08 15:55	4° Ƴ 32′29	1.37504 AU	max. Earth dist.	14730 Feb 19 01:30	16° ¥ 28'15	
desc. node	14729 Mar 08 15:55 14729 Mar 08 22:23	4° Υ 32'29 5° Υ 02'24	1.37504 AU	max. Earth dist.	14730 Feb 19 01:30 14730 Feb 23 01:21	16° ¥ 28'15 24° ¥ 07'55	
desc. node	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51	4° Υ 32'29 5° Υ 02'24 11° Υ 15'44	1.37504 AU	max. Earth dist.	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55	16°¥28'15 24°¥07'55 25°¥29'42	
desc. node	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54	4° Υ 32'29 5° Υ 02'24 11° Υ 15'44 0° ႘		max. Earth dist.	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14	16° X 28'15 24° X 07'55 25° X 29'42 0° Υ	
desc. node evening rise	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π		max. Earth dist. evening rise desc. node	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28	16°¥28'15 24°¥07'55 25°¥29'42 0°Υ 0°Υ	1.35382 AU
desc. node evening rise evening max el	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°∏57'04		max. Earth dist. evening rise desc. node evening max el	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Mar 30 09:29	16° ¥28'15 24° ¥07'55 25° ¥29'42 0° ¥ 0° ¥ 15° ¥45'41	1.35382 AU
desc. node evening rise evening max el retrograde	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33		max. Earth dist. evening rise desc. node evening max el retrograde	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Mar 30 09:29 14730 Apr 12 08:19	16° X 28'15 24° X 07'55 25° X 29'42 0° Y 0° S 15° S 45'41 23° S 07'29	1.35382 AU
desc. node evening rise evening max el retrograde asc. node	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°℧ 0°П 1°П57'04 8°П59'33 7°П46'55		max. Earth dist. evening rise desc. node evening max el retrograde evening set	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Mar 30 09:29 14730 Apr 12 08:19 14730 Apr 18 15:31	16° X 28'15 24° X 07'55 25° X 29'42 0° Y 0° S 15° S 45'41 23° S 07'29 20° S 35'31	1.35382 AU
evening max el retrograde asc. node evening set	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°℧ 0°П 1°П57'04 8°П59'33 7°П46'55 6°П32'52	25°18'37	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48	16° ★28'15 24° ₩07'55 25° ₩29'42 0° ❤ 0° ♉ 15° ♉45'41 23° ♂07'29 20° ♂35'31 19° ♂20'42	1.35382 AU 26°24'47
evening max el retrograde asc. node evening set min. Earth dist.	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39	25°18'37 0.67990 AU 2°05'05	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56	16° \text{\ti}\text{\tex{\tex	1.35382 AU 26°24'47 0.66790 AU
evening max el retrograde asc. node evening set min. Earth dist. inferior conj	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39 0°П02'13	25°18'37 0.67990 AU 2°05'05	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 30 09:29 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48 14730 Apr 22 17:37	16° \ 28'15 24° \ 707'55 25° \ 29'42 0° \ Y 0° \ 8 15° \ 845'41 23° \ 807'29 20° \ 835'31 19° \ 820'42 16° \ 822'29 14° \ 807'52	1.35382 AU 26°24'47 0.66790 AU 1°22'04
evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39 0°П02'13	25°18'37 0.67990 AU 2°05'05	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39	16° X 28'15 24° X 07'55 25° X 29'42 0° Y 0° X 15° X 45'41 23° X 07'29 20° X 35'31 19° X 20'42 16° X 22'29 14° X 07'52 14° X 13'27 8° X 25'47	1.35382 AU 26°24'47 0.66790 AU 1°22'04
desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50 14729 May 16 00:03	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39 0°П02'13 0°П09'15 30°R႘ 24°႘09'03	25°18'37 0.67990 AU 2°05'05	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31	16°¥28'15 24°¥07'55 25°¥29'42 0°Y 0°℧ 15°℧45'41 23°℧07'29 20°℧35'31 19°℧20'42 16°℧22'29 14°℧07'52 14°℧13'27 8°℧25'47 7°℧31'06	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49
desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50 14729 May 16 00:03 14729 May 19 13:35	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R႘ 24°႘09'03 22°႘56'06	25°18'37 0.67990 AU 2°05'05 2°03'38	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03	16°¥28'15 24°¥07'55 25°¥29'42 0°Y 0°℧ 15°℧45'41 23°℧07'29 20°℧35'31 19°℧20'42 16°℧22'29 14°℧07'52 14°℧13'27 8°℧25'47 7°℧31'06 10°℧57'17	1.35382 AU 26°24'47 0.66790 AU 1°22'04
desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 09:59 14729 May 10 12:50 14729 May 16 00:03 14729 May 19 13:35 14729 May 26 12:55	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39 0°П02'13 0°П09'15 30°R႘ 24°႘09'03	25°18'37 0.67990 AU 2°05'05	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51	16°¥28'15 24°¥07'55 25°¥29'42 0°Y 0°℧ 15°℧45'41 23°℧07'29 20°℧35'31 19°℧20'42 16°℧22'29 14°℧07'52 14°℧13'27 8°℧25'47 7°℧31'06	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49
desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50 14729 May 16 00:03 14729 May 19 13:35	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°℧ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R℧ 24°℧09'03 22°℧56'06 26°℧44'22	25°18'37 0.67990 AU 2°05'05 2°03'38	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 18 15:31 14730 Apr 20 00:48 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03	16° ★28'15 24° ★07'55 25° ★29'42 0° ❤ 0° ♉ 15° ♉45'41 23° ♂07'29 20° ♂35'31 19° ♂20'42 16° ♂22'29 14° ♂07'52 14° ♂13'27 8° ♂25'47 7° ♂31'06 10° ♂57'17 28° ♂29'12	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 09:59 14729 May 10 12:50 14729 May 10 00:03 14729 May 19 13:35 14729 May 26 12:55 14729 May 29 12:20	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°℧ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R℧ 24°℧09'03 22°℧56'06 26°℧44'22 0°Ⅲ 8°Ⅲ40'47	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11	16° ★28'15 24° ★07'55 25° ★29'42 0° ❤ 0° ♉ 15° ♉45'41 23° ♂07'29 20° ♂35'31 19° ♂20'42 16° ♂22'29 14° ♂07'52 14° ♂13'27 8° ♂25'47 7° ♂31'06 10° ♂57'17 28° ♂29'12 0° Ⅱ	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:55 14729 May 12 12:55 14729 May 26 12:55 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°℧ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R℧ 24°℧09'03 22°℧56'06 26°℧44'22 0°Ⅲ	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07	16° \(\) 28'15 24° \(\) 407'55 25° \(\) 29'42 0° \(\) 0° \(\) 0° \(\) 35'31 19° \(\) 20'42 16° \(\) 22'29 14° \(\) 307'52 14° \(\) 31'06 10° \(\) 55'17 28° \(\) 29'12 0° \(\) 11 10° \(\) 11 10° \(\) 13'19	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:55 14729 May 29 12:20 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21	4°Y32'29 5°Y02'24 11°Y15'44 0°8 0°II 1°II57'04 8°II59'33 7°II46'55 6°II32'52 1°II44'39 0°II02'13 0°II09'15 30°R8 24°809'03 22°856'06 26°844'22 0°II 8°II40'47 13°II36'47 0°©	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 20 00:48 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 30 13:07 14730 May 30 13:07	16° ★28'15 24° ₩07'55 25° ₩29'42 0° ❤ 0° ℧ 15° ℧45'41 23° ℧07'29 20° ℧35'31 19° ℧20'42 16° ℧22'29 14° ℧07'52 14° ℧13'27 8° ℧25'47 7° ℧31'06 10° ℧57'17 28° ℧29'12 0° Ⅲ 10° Ⅲ33'19 0° 愛	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 09:59 14729 May 10 12:50 14729 May 10 00:03 14729 May 10 12:55 14729 May 26 12:55 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21 14729 Jun 19 15:26	4°Y32'29 5°Y02'24 11°Y15'44 0°8 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39 0°П02'13 0°П09'15 30°R8 24°8'09'03 22°8'56'06 26°8'44'22 0°П 8°П40'47 13°П36'47 0°9 0°\$46'30	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41 -0.7m	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 30 13:07 14730 May 30 13:07 14730 Jun 11 22:15	16° ★28'15 24° ₩07'55 25° ₩29'42 0° ❤ 0° ℧ 15° ℧45'41 23° ℧07'29 20° ℧35'31 19° ℧20'42 16° ℧22'29 14° ℧07'52 14° ℧13'27 8° ℧25'47 7° ℧31'06 10° ℧57'17 28° ℧29'12 0° Ⅲ 10° Ⅲ33'19 0° ☞	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 09 04:36 14729 May 10 12:09 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:55 14729 May 29 12:20 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21	4°Y32'29 5°Y02'24 11°Y15'44 0°8 0°II 1°II57'04 8°II59'33 7°II46'55 6°II32'52 1°II44'39 0°II02'13 0°II09'15 30°R8 24°809'03 22°856'06 26°844'22 0°II 8°II40'47 13°II36'47 0°©	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07 14730 Jun 11 22:15	16° ★28'15 24° ₩07'55 25° ₩29'42 0° ❤ 0° ♉ 15° ♂45'41 23° ♂07'29 20° ♂35'31 19° ♂20'42 16° ♂22'29 14° ♂07'52 14° ♂13'27 8° ♂25'47 7° ♂31'06 10° ♂57'17 28° ♂29'12 0° Ⅲ 10° Ⅲ33'19 0° ☞ 5° ©20'38 5° ©20'18	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53 -2°09'02 2°09'52
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.	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 09:59 14729 May 10 12:50 14729 May 10 00:03 14729 May 10 12:55 14729 May 26 12:55 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21 14729 Jun 19 15:26 14729 Jul 02 19:25	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Π 1°П57'04 8°П59'33 7°П46'55 6°П32'52 1°П44'39 0°П02'13 0°П09'15 30°R႘ 24°႘09'03 22°႘56'06 26°႘44'22 0°Π 8°П40'47 13°П36'47 0°९ 0°९46'30 21°९513'24	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41 -0.7m 1.45427 AU	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07 14730 Jun 11 22:15 14730 Jun 15 08:25 14730 Jun 15 03:13 14730 Jun 15 03:13	16° ★28'15 24° ₩07'55 25° ₩29'42 0° ❤ 0° ♉ 15° ♂45'41 23° ♂07'29 20° ♂35'31 19° ♂20'42 16° ♂22'29 14° ♂07'52 14° ♂13'27 8° ♂25'47 7° ♂31'06 10° ♂57'17 28° ♂29'12 0° Ⅲ 10° Ⅲ33'19 0° ☞ 5° ©20'38 5° ©30'18 5° ©46'26	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:55 14729 May 10 12:55 14729 May 26 12:55 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21 14729 Jun 19 15:26 14729 Jul 02 19:25	4°Y32'29 5°Y02'24 11°Y15'44 0°႘ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R႘ 24°႘09'03 22°႘56'06 26°႘44'22 0°Ⅲ 8°Ⅲ40'47 13°Ⅲ36'47 0°९ 0°९46'30 21°९13'24	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41 -0.7m 1.45427 AU -2°12'50	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07 14730 Jun 15 08:25 14730 Jun 15 08:25 14730 Jun 15 03:13 14730 Jun 15 15:02 14730 Jul 01 04:38	16° ★28'15 24° ₩07'55 25° ₩29'42 0° ❤ 0° ♉ 15° ♂45'41 23° ♂07'29 20° ♂35'31 19° ♂20'42 16° ♂22'29 14° ♂07'52 14° ♂13'27 8° ♂25'47 7° ♂31'06 10° ♂57'17 28° ♂29'12 0° Ⅲ 10° Ⅲ33'19 0° ☞ 5° ©20'38 5° ©00'18 5° ©46'26 0° £08'37	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53 -2°09'02 2°09'52
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.	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:55 14729 May 10 2:55 14729 May 26 12:55 14729 May 26 12:55 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21 14729 Jun 19 15:26 14729 Jul 05 23:17 14729 Jul 05 23:17	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R႘ 24°႘09'03 22°႘56'06 26°႘44'22 0°Ⅲ 8°Ⅲ40'47 13°Ⅲ36'47 0°፵ 0°፵46'30 21°፵13'24 26°ℱ12'08 26°ℱ22'05	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41 -0.7m 1.45427 AU -2°12'50	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07 14730 Jun 15 08:25 14730 Jun 15 08:25 14730 Jun 15 03:13 14730 Jun 15 15:02 14730 Jul 01 04:38 14730 Jul 01 04:38	16° ★28'15 24° ★07'55 25° ★29'42 0° ❤ 0° ℧ 15° ℧45'41 23° ℧07'29 20° ℧35'31 19° ℧20'42 16° ℧22'29 14° ℧07'52 14° ℧13'27 8° ℧25'47 7° ℧31'06 10° ℧57'17 28° ℧29'12 0° 頂 10° 頂33'19 0° ፵ 5° ፵20'38 5° ፵00'18 5° Ლ46'26 0° Ω08'37 0° Ω	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53 -2°09'02 2°09'52 1.45915 AU
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 09:59 14729 May 10 00:03 14729 May 10 12:50 14729 May 10 12:55 14729 May 26 12:55 14729 May 29 12:20 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21 14729 Jun 19 15:26 14729 Jul 05 23:17 14729 Jul 05 23:17 14729 Jul 06 01:48 14729 Jul 08 08:46	4°Y32'29 5°Y02'24 11°Y15'44 0°B 0°II 1°II57'04 8°II59'33 7°II46'55 6°II32'52 1°II44'39 0°II09'15 30°RB 24°B09'03 22°B56'06 26°B44'22 0°II 8°II40'47 13°II36'47 0°G 0°G46'30 21°G13'24 26°G22'05 0°Ω	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41 -0.7m 1.45427 AU -2°12'50	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 superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07 14730 Jun 11 22:15 14730 Jun 15 08:25 14730 Jun 15 03:13 14730 Jun 15 03:13 14730 Jun 15 15:02 14730 Jul 01 04:38 14730 Jul 01 02:26 14730 Jul 10 05:07	16° ★28'15 24° ★07'55 25° ★29'42 0° ❤ 0° ℧ 15° ℧45'41 23° ℧07'29 20° ℧35'31 19° ℧20'42 16° ℧22'29 14° ℧13'27 8° ℧25'47 7° ℧31'06 10° ℧57'17 28° ℧29'12 0° Ⅲ 10° Ⅲ33'19 0° © 5° ©20'38 5° ©40'26 0° £08'37 0° £11'26	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53 -2°09'02 2°09'52
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	14729 Mar 08 15:55 14729 Mar 08 22:23 14729 Mar 12 08:51 14729 Mar 23 14:54 14729 Apr 14 22:09 14729 Apr 16 19:51 14729 Apr 28 23:33 14729 May 03 03:27 14729 May 04 20:19 14729 May 10 12:09 14729 May 10 09:59 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:50 14729 May 10 12:55 14729 May 10 2:55 14729 May 26 12:55 14729 May 26 12:55 14729 Jun 04 23:59 14729 Jun 08 08:49 14729 Jun 19 03:21 14729 Jun 19 15:26 14729 Jul 05 23:17 14729 Jul 05 23:17	4°Υ32'29 5°Υ02'24 11°Υ15'44 0°႘ 0°Ⅲ 1°Ⅲ57'04 8°Ⅲ59'33 7°Ⅲ46'55 6°Ⅲ32'52 1°Ⅲ44'39 0°Ⅲ02'13 0°Ⅲ09'15 30°R႘ 24°႘09'03 22°႘56'06 26°႘44'22 0°Ⅲ 8°Ⅲ40'47 13°Ⅲ36'47 0°፵ 0°፵46'30 21°፵13'24 26°ℱ12'08 26°ℱ22'05	25°18'37 0.67990 AU 2°05'05 2°03'38 19°12'41 -0.7m 1.45427 AU -2°12'50	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	14730 Feb 19 01:30 14730 Feb 23 01:21 14730 Feb 23 18:55 14730 Feb 26 06:14 14730 Mar 17 05:28 14730 Apr 12 08:19 14730 Apr 20 00:48 14730 Apr 22 17:37 14730 Apr 24 13:56 14730 Apr 24 12:06 14730 Apr 30 09:39 14730 Apr 30 09:39 14730 May 03 12:31 14730 May 10 00:03 14730 May 22 20:51 14730 May 23 20:11 14730 May 30 13:07 14730 Jun 15 08:25 14730 Jun 15 08:25 14730 Jun 15 03:13 14730 Jun 15 15:02 14730 Jul 01 04:38 14730 Jul 01 04:38	16° ★28'15 24° ★07'55 25° ★29'42 0° ❤ 0° ℧ 15° ℧45'41 23° ℧07'29 20° ℧35'31 19° ℧20'42 16° ℧22'29 14° ℧07'52 14° ℧13'27 8° ℧25'47 7° ℧31'06 10° ℧57'17 28° ℧29'12 0° 頂 10° 頂33'19 0° ፵ 5° ፵20'38 5° ፵00'18 5° Ლ46'26 0° Ω08'37 0° Ω	1.35382 AU 26°24'47 0.66790 AU 1°22'04 1°20'49 18°26'53 -2°09'02 2°09'52 1.45915 AU

evening max el	14730 Jul 23 03:41	1° m 58'34	18°49'00	evening rise	14731 Jun 10 22:43	9° 5 43'39	
retrograde	14730 Jul 29 19:32	5° Mp 36'45			14731 Jun 24 08:08	$0^{\circ}\Omega$	
evening set	14730 Aug 02 03:41	4° № 32'36		greatest brilliancy	14731 Jun 24 17:52	0° Ω 35'43	-0.6m
	14730 Aug 06 18:53	30° R Ω		asc. node	14731 Jul 03 20:23	12° Ω 57'33	
inferior conj	14730 Aug 07 17:18	28° Ω 50′19	2°45'01	evening max el	14731 Jul 06 10:42	15° Ω 48'17	19°37'20
minimum elong	14730 Aug 07 19:14	28° Ω 44'14	2°44'02	retrograde	14731 Jul 13 17:35	19° Ω 53'51	
min. Earth dist.	14730 Aug 09 12:01	26° Ω 36′25	0.66171 AU	evening set	14731 Jul 17 11:23	18° Ω 32'37	
morning rise	14730 Aug 13 09:53	22° Ω 25′06		inferior conj	14731 Jul 22 19:43	12° Ω 37'14	3°04'08
desc. node	14730 Aug 18 19:00	19° Ω 49'24		minimum elong	14731 Jul 22 20:47	12° Ω 33'42	3°03'12
direct	14730 Aug 19 16:27	19° Ω 46′24		min. Earth dist.	14731 Jul 24 00:15	11° Ω 02'16	0.67577 AU
morning max el	14730 Sep 01 17:37	27° Ω 30'46	26°32'59	morning rise	14731 Jul 28 05:40	6° Ω 12'11	
	14730 Sep 04 01:59	0° m		direct	14731 Aug 03 02:19	3° Ω 38'38	
	14730 Sep 25 15:14	0∘ ⊽		desc. node	14731 Aug 05 16:28	4° Ω 04'15	
morning set	14730 Oct 07 14:08	20° £ 57'17		morning max el	14731 Aug 15 04:33	10° £ 53′30	25°15'45
max. Earth dist.	14730 Oct 11 13:19	28° £ 37'03	1.34393 AU		14731 Aug 30 10:24	0° m)	
	14730 Oct 12 06:02	0°M			14731 Sep 18 06:56	0° ™	
asc. node	14730 Oct 13 01:29	1°M37'21		morning set	14731 Sep 20 01:58	3° £ 10′54	1 26161 177
	14720 0 + 16 12 05	00 M 20122	0021126	max. Earth dist.	14731 Sep 23 15:32	9° £ 41'44	1.36461 AU
superior conj	14730 Oct 16 12:05	8°M39'22	0°31'36	asc. node	14731 Sep 29 22:05	21° ≏ 45'45	
minimum elong	14730 Oct 16 10:27	8°M30'56	0°31'50		14721 9 20 01.47	220 0 04100	0001126
evening rise	14730 Oct 23 22:00	24°M15'31 0° √		superior conj	14731 Sep 30 01:47	22° ₽ 04'08	0°01'26 0°01'42
avanina may al	14730 Oct 26 16:34	0° x ¹ 26° x ¹18'02	21909/01	minimum elong	14731 Sep 30 01:40	22° £ 03'35	0-01-42
evening max el desc. node	14730 Nov 12 08:12 14730 Nov 14 15:27	28° x 18 02	21-0801	behind sun begin behind sun end	14731 Sep 29 19:18 14731 Sep 30 08:02	21° △ 32'02 22° △ 35'12	
desc. node	14730 Nov 14 13.27 14730 Nov 16 23:23	28 メ ・2140		bening sun end	14731 Sep 30 08.02 14731 Oct 04 00:22	0°M	
retrograde	14730 Nov 24 03:10	0 3 2° ろ 09'08		evening rise	14731 Oct 04 00.22 14731 Oct 08 03:52	8°M27'36	
evening set	14730 Nov 24 03.10 14730 Nov 26 18:55	2 30908 1° る 52'33		evening rise	14731 Oct 08 03.32 14731 Oct 19 21:01	0° √	
evening set	14730 Nov 20 18:33	1 ℃3233 30°R×7		evening max el	14731 Oct 19 21:01 14731 Oct 25 13:59	0 x ⁴ 7° x ⁴11'01	19°49'25
inferior conj	14730 Dec 01 22:37	28° ₹ 00'08	5°33'07	desc. node	14731 Nov 01 12:45	11° × ⁷ 45'23	19 49 23
minimum elong	14730 Dec 05 13:13	28° 🖈 11'22	5°30'46	retrograde	14731 Nov 04 17:50	11 × 45 25 12° × 15'03	
min. Earth dist.	14730 Dec 05 07:18	27° 🖈 38'45	0.54464 AU	evening set	14731 Nov 04 17:30	12° x 1303	
morning rise	14730 Dec 13 20:04	24° × 08'57	0.54404 AO	inferior conj	14731 Nov 15 12:28	8°×703'36	-4°12'43
direct	14730 Dec 17 21:38	23°×733'24		minimum elong	14731 Nov 15 12:20	8° ⋌ ¹18'48	4°08'44
morning max el	14730 Dec 30 20:50	29° х 49'56	22°49'35	min. Earth dist.	14731 Nov 17 14:18	6° ∡ 746'48	0.55128 AU
morning max or	14730 Dec 31 01:04	0°ਰ	22 1733	morning rise	14731 Nov 23 10:24	3° × ⁷ 49'41	0.55120110
asc. node	14731 Jan 09 01:32	11° ට 15'36		direct	14731 Nov 28 11:07	2° ×7 53'57	
	14731 Jan 19 10:18	0° ≈		morning max el	14731 Dec 12 06:03	9° ∡ ¹45'34	24°38'59
morning set	14731 Jan 22 08:26	6° ≈ 06'19		asc. node	14731 Dec 26 22:43	29° х 30′02	
Č					14731 Dec 27 05:40	ರ°0	
superior conj	14731 Jan 29 07:26	21° ≈ 04'21	1°27'47	morning set	14732 Jan 06 20:23	20° ප් 48'55	
minimum elong	14731 Jan 29 09:18	21° ≈ 14′20	1°28'21	C	14732 Jan 11 01:19	0° ≈	
max. Earth dist.	14731 Feb 01 17:36	28° ≈ 17'42	1.33595 AU				
	14731 Feb 02 13:24	0°) €		superior conj	14732 Jan 13 15:01	5° ≈ 39'39	1°35'55
evening rise	14731 Feb 06 07:38	7°) €33'25		minimum elong	14732 Jan 13 15:54	5° ≈ 44'31	1°36'46
desc. node	14731 Feb 10 15:30	15°) 47′16		max. Earth dist.	14732 Jan 15 17:21	10° ≈ 14'16	1.32256 AU
	14731 Feb 18 20:19	$0^{\circ}\mathbf{\Upsilon}$		evening rise	14732 Jan 21 00:28	21° ≈ 24'19	
evening max el	14731 Mar 12 22:57	29° Y 20′31	27°12'26		14732 Jan 25 08:53	0° ∀	
	14731 Mar 13 15:34	9° 8		desc. node	14732 Jan 28 12:09	5° 升 50′10	
retrograde	14731 Mar 26 11:15	6° 8 50'26			14732 Feb 12 18:09	$0^{\circ}\mathbf{\Upsilon}$	
evening set	14731 Apr 02 02:39	4° 8 19'16		evening max el	14732 Feb 23 11:03	12° Y 30'46	27°34'22
min. Earth dist.	14731 Apr 05 23:57	0° 8 38'59	0.65183 AU	retrograde	14732 Mar 08 07:14	19° Ƴ 59'00	
asc. node	14731 Apr 06 22:13	29° Ƴ 37'37		evening set	14732 Mar 15 03:18	17° Ƴ 35'58	
	14731 Apr 06 14:10	30° ₹Ƴ		min. Earth dist.	14732 Mar 18 21:50	14° Y 24'16	0.63244 AU
inferior conj	14731 Apr 08 08:37	28° Y 01′09	0°27'02	inferior conj	14732 Mar 21 17:21	11° Y 35'10	-0°40'34
minimum elong	14731 Apr 08 07:53	28° Y 03′12	0°26'21	minimum elong	14732 Mar 21 18:40	11° Y 31'52	0°40'08
morning rise	14731 Apr 14 14:52	22° Ƴ 31'59		asc. node	14732 Mar 23 19:41	9° Ƴ 33'05	
direct	14731 Apr 17 08:10	21° Y 52'42		morning rise	14732 Mar 28 12:37	6° Y 21′16	
morning max el	14731 Apr 23 15:54	25° Y 09'31	17°57'58	direct	14732 Mar 30 21:45	5° Y 53'57	
	14731 Apr 27 18:46	0°8		morning max el	14732 Apr 06 09:38	9° Y 12'48	17°46'25
desc. node	14731 May 09 17:39	18° 8 36'31			14732 Apr 20 09:27	0°8	
morning set	14731 May 11 14:19	21° 8 40'06		morning set	14732 Apr 22 17:38	4° 8 01'50	
	14731 May 16 16:29	Π °0		desc. node	14732 Apr 25 14:21	8° 8 57'15	
superior conj	14731 May 25 21:21	14° Ⅱ 45'41	-1°46'09	superior conj	14732 May 05 04:36	25° 8 04'08	-1°11'00
minimum elong	14731 May 25 12:26	14° Ⅱ 10′26		minimum elong	14732 May 04 21:42	_	1°10'51
max. Earth dist.	14731 May 29 11:01	20° Ⅲ 22'49	1.45654 AU	, and the second	14732 May 08 05:18	0°II	
	14731 Jun 04 15:17	0ಂಣ 		max. Earth dist.	14732 May 11 05:22		1.44681 AU
					•		

evening rise	14732 May 20 09:38	19° Ⅱ 08'51		max. Earth dist.	14733 Apr 23 20:14	18° 8 49'36	1.43093 AU
	14732 May 27 13:31	0 \circ \odot		evening rise	14733 Apr 30 05:22	29° 8 03'15	
evening max el	14732 Jun 18 11:55	29° 5 340'04	20°40'09		14733 Apr 30 19:51	Π °0	
	14732 Jun 18 19:59	$0^{\circ}\Omega$			14733 May 21 05:03	0 \circ \odot	
asc. node	14732 Jun 19 17:18	0° Ω 50'09		evening max el	14733 Jun 01 07:32	13° © 31'48	21°54'10
retrograde	14732 Jun 26 16:34	4° Ω 22'59		asc. node	14733 Jun 06 14:19	17°546'27	
evening set	14732 Jun 30 20:46	2° Ω 44'27		retrograde	14733 Jun 10 14:41	18°958'08	
inferior conj	14732 Jul 03 13:20 14732 Jul 06 02:43	30°R∽ 26°∽37'16	3°10'30	evening set inferior conj	14733 Jun 15 05:57 14733 Jun 20 12:02	17° © 03'00 10° © 45'35	3°05'40
minimum elong	14732 Jul 06 02:47	26°937'10	3°09'32	minimum elong	14733 Jun 20 11:10	10 3 43 33	3°04'35
min. Earth dist.	14732 Jul 06 17:26	25°946'30	0.68528 AU	min. Earth dist.	14733 Jun 20 13:26	10° © 40'41	0.68993 AU
morning rise	14732 Jul 11 08:30	20°516'09	0.00020110	morning rise	14733 Jun 25 16:12	4°930'37	0.00335110
direct	14732 Jul 16 17:30	17° © 54'49		direct	14733 Jun 30 12:42	2° © 26'28	
desc. node	14732 Jul 22 13:50	20°504'56		desc. node	14733 Jul 09 11:07	7° © 25'35	
morning max el	14732 Jul 27 15:04	24° © 25'33	23°48'01	morning max el	14733 Jul 10 03:21	8° © 05'30	22°19'10
	14732 Aug 01 15:00	0 ° Ω			14733 Jul 27 04:49	0 ° Ω	
	14732 Aug 22 20:31	0° ™		morning set	14733 Aug 12 10:20	24° Ω 50'55	
morning set	14732 Aug 31 17:59	14° m 31'43			14733 Aug 15 13:57	0° т р	
max. Earth dist.	14732 Sep 04 13:34	21° Mp 07'35	1.38807 AU	max. Earth dist.	14733 Aug 17 14:21	3°M21'33	1.41157 AU
	14732 Sep 09 11:50	0∘ ⊽		:	14722 4 25 10:10	1 (0 m , 5 411 7	1900141
superior conj	14732 Sep 12 02:36	4° £ 52'24	0032140	superior conj minimum elong	14733 Aug 25 10:18 14733 Aug 25 15:39	16° Mp 54'17 17° Mp 18'08	1°08'13
minimum elong	14732 Sep 12 02:30	5° £ 03'28		minimum ciong	14733 Aug 23 13:39 14733 Sep 01 14:31	0∘ ⊽	1 08 13
asc. node	14732 Sep 12 04:37	11° ⊆ 52'56	0 32 23	asc. node	14733 Sep 01 14:31 14733 Sep 02 15:13	0 — 1° Ω 55'07	
evening rise	14732 Sep 21 03:27	22° £ 21'48		evening rise	14733 Sep 04 17:25	5° Ω 49'41	
Č	14732 Sep 25 02:15	0°M		Č	14733 Sep 19 09:46	0°M	
evening max el	14732 Oct 07 09:42	18°M53'51	18°52'45	evening max el	14733 Sep 20 15:48	1°M20'20	18°17'41
retrograde	14732 Oct 16 00:01	23°M13'24		retrograde	14733 Sep 28 01:46	5°M06'41	
evening set	14732 Oct 17 21:16	23°M01'43		evening set	14733 Sep 30 03:51	4°M49'25	
desc. node	14732 Oct 18 10:08	22°M54'18		desc. node	14733 Oct 05 07:33	2°M02'14	
inferior conj	14732 Oct 26 03:22	18°M42'42		inferior conj	14733 Oct 07 16:05	0°M09′02	
minimum elong	14732 Oct 25 21:14	18°M53'36		minimum elong	14733 Oct 07 14:25	0°M12'29	0°43'48
min. Earth dist.	14732 Oct 29 02:52	16°M36'03	0.56611 AU		14733 Oct 07 20:24	30° ₹ Ω	0.50620 ATT
morning rise direct	14732 Nov 02 18:12 14732 Nov 08 13:45	13°M53'40 12°M33'03		min. Earth dist. morning rise	14733 Oct 10 22:43 14733 Oct 14 21:34	27° £ 26'17 24° £ 43'32	0.58639 AU
morning max el	14732 Nov 08 13.43	12 IIC33 03 19°M51'28	26°16'46	direct	14733 Oct 14 21:34 14733 Oct 21 06:01	24 ⊆ 43 32 22° ⊆ 56'14	
morning max or	14732 Dec 01 09:41	0° ₹	20 10 10	ancer	14733 Nov 03 22:22	0°M	
asc. node	14732 Dec 12 19:47	18° ≯ 23'00		morning max el	14733 Nov 04 13:19	0°M35'51	27°25'59
	14732 Dec 18 17:46	8°0		Č	14733 Nov 25 12:54	0° ∡ ″	
morning set	14732 Dec 21 07:11	5° る 24'28		asc. node	14733 Nov 29 16:44	7° ∡ ¹44'17	
				morning set	14733 Dec 05 15:10	19° ∡ ⁴48'42	
superior conj	14732 Dec 28 01:32	20° පි 20'14			14733 Dec 10 07:14	0°ಕ	
minimum elong	14732 Dec 28 01:21	20° る 19'10				_	
max. Earth dist.	14732 Dec 28 22:57	22° る 19'27	1.31419 AU	superior conj	14733 Dec 12 13:05		1°33'54
	14733 Jan 01 10:41	0°≈ 5°≈33'22		minimum elong max. Earth dist.	14733 Dec 12 11:54 14733 Dec 12 07:09	4°る54'04 4°る27'29	1°34'51 1.31101 AU
evening rise desc. node	14733 Jan 04 01:04 14733 Jan 14 08:51	25°≈31'44		evening rise	14733 Dec 12 07:09 14733 Dec 19 07:06	19° る 54'53	1.31101 AU
desc. Hode	14733 Jan 16 23:31	0°) €		evening rise	14733 Dec 19 07:00 14733 Dec 24 04:10	0°≈	
evening max el	14733 Feb 04 19:21	25°) €02'53	27°24'22	desc. node	14734 Jan 01 05:38	14°≈43'45	
Č	14733 Feb 11 03:38	$0^{\circ}\Upsilon$			14734 Jan 11 17:12	0°) €	
retrograde	14733 Feb 18 18:45	2° Y 22'54		evening max el	14734 Jan 17 21:02	6°) 45'44	26°39'21
evening set	14733 Feb 25 14:29	0° Y 15'33		retrograde	14734 Jan 31 20:24	13°) 55′13	
	14733 Feb 26 00:22	30° ₹		evening set	14734 Feb 07 08:46	12° ℋ 10′25	
min. Earth dist.	14733 Mar 01 09:37		0.61092 AU	min. Earth dist.	14734 Feb 11 10:44	9°) 32′48	0.58891 AU
inferior conj	14733 Mar 04 12:42	24°) 40′16		inferior conj	14734 Feb 14 14:58	7° ∺ 06'39	
minimum elong	14733 Mar 04 17:01	24°) (30'41	1°57'57	minimum elong	14734 Feb 14 22:35	6°) 52′00	3°23'19
asc. node	14733 Mar 10 17:10	20° € 12'05		morning rise	14734 Feb 22 15:38	2°) 32′07	
morning rise direct	14733 Mar 11 22:43 14733 Mar 14 01:43	19°) 44'34 19°) 25'33		direct asc. node	14734 Feb 24 15:43 14734 Feb 25 14:36	2° H 17'51 2° H 21'12	
morning max el	14733 Mar 14 01:43 14733 Mar 21 02:00	19° K 25'33 22° K 57'03	17°52'54	asc. node morning max el	14/34 Feb 25 14:36 14734 Mar 04 13:26	6° X 12'30	18°18'48
morning max or	14733 Mar 26 15:09	22 χ 3703	11 3237	morning max ci	14734 Mar 19 14:56	0 χ 12 30 0° Υ	10 10 70
morning set	14733 Apr 05 17:04	17° Υ 19'20		morning set	14734 Mar 20 06:53	1° Υ 15'31	
desc. node	14733 Apr 12 10:57	29° Υ 26'07		0			
	14733 Apr 12 18:37	0°8		superior conj	14734 Mar 29 16:38	18° Ƴ 51'56	0°05'05
	-			minimum elong	14734 Mar 29 16:59	18° Y 53'34	0°04'47
superior conj	14733 Apr 16 11:31	6° 8 27'43		behind sun begin	14734 Mar 29 09:55	18° Ƴ 21'22	
minimum elong	14733 Apr 16 08:37	6° 8 15'15	0°31'57	behind sun end	14734 Mar 30 00:03	19° Y 25'40	

desc. node	14734 Mar 30 07:31	19° Ƴ 59'28		desc. node	14735 Mar 17 04:02	10° Ƴ 33'30	
	14734 Apr 04 23:33	9° 8		max. Earth dist.	14735 Mar 19 12:51		1.38795 AU
max. Earth dist.	14734 Apr 06 06:28	2° 8 12'20	1.41056 AU	evening rise	14735 Mar 23 07:33	21° Y 29'30	
evening rise	14734 Apr 10 19:51	9° 8 48'52			14735 Mar 28 09:20	9° 8	
	14734 Apr 23 19:42	$\Pi^{\circ}0$			14735 Apr 17 19:12	$\Pi^{\circ}0$	
evening max el	14734 May 14 23:02	27° Ⅲ 23'54	23°14'33	evening max el	14735 Apr 27 12:36	11° Ⅱ 17'13	24°35'08
	14734 May 17 19:10	0°©		retrograde	14735 May 09 03:06	18° Ⅱ 04'28	
asc. node	14734 May 24 11:26	3°529'45		asc. node	14735 May 11 08:38	17° Ⅱ 42'56	
retrograde	14734 May 25 10:36	3° © 33'53		evening set	14735 May 14 17:21	15° ∏ 42'44	
evening set	14734 May 30 13:20	1°923'58		min. Earth dist.	14735 May 19 05:41	10° Ⅲ 33'43	0.68469 AU
evening set	14734 May 31 23:43	1 3 23 38			14735 May 20 05:58	9° Ⅱ 12'29	2°24'45
	,		2050122	inferior conj	-		
inferior conj	14734 Jun 04 21:44	24° I I58'27	2°50'22	minimum elong	14735 May 20 03:53	9° Ⅱ 19'30	2°23'19
minimum elong	14734 Jun 04 20:06	25° Ⅱ 04'05	2°49'07	morning rise	14735 May 25 14:36	3° Ⅱ 13'43	
min. Earth dist.	14734 Jun 04 10:11	25° Ⅲ 38′23	0.68970 AU	direct	14735 May 29 10:32	1° Ⅱ 49'41	
morning rise	14734 Jun 10 02:50	18° Ⅲ 51′04		morning max el	14735 Jun 05 20:32	5° Ⅱ 57'03	19°46'28
direct	14734 Jun 14 10:48	17° Ⅱ 06'43		desc. node	14735 Jun 13 05:22	14° Ⅱ 48'37	
morning max el	14734 Jun 22 20:28	21° Ⅱ 55'39	20°56'50	greatest brilliancy	14735 Jun 18 22:53	22° Ⅱ 55′09	-0.6m
desc. node	14734 Jun 26 08:18	25° Ⅱ 45'22			14735 Jun 23 17:35	0 \circ \odot	
	14734 Jun 29 17:59	0°9		morning set	14735 Jul 02 06:17	12° 9 57'27	
	14734 Jul 20 10:30	$0^{\circ}\Omega$		•	14735 Jul 13 05:03	$0^{\circ}\Omega$	
morning set	14734 Jul 23 03:09	4°Ω10'13		max. Earth dist.	14735 Jul 13 10:12		1.44802 AU
max. Earth dist.	14734 Jul 30 21:16	16° Ω 28'59	1.43232 AU			* 00=*=	.,
max. Larm dist.	14/54 Jul 30 21.10	10 662037	1.43232 AU	superior conj	14735 Jul 18 07:05	8°Ω06'42	2006:00
aumorior aoni	14724 Aug 06 20:20	27° Ω 59'52	1041154	minimum elong		8°Ω30'26	
superior conj	14734 Aug 06 20:29			Č	14735 Jul 18 12:58		2 00 33
minimum elong	14734 Aug 07 03:57	28° Ω 31'21	1°41′45	evening rise	14735 Jul 31 22:22	0° m 39'50	
	14734 Aug 08 00:53	0° m			14735 Jul 31 12:56	0° m	
evening rise	14734 Aug 18 17:26	18° m 39'53		asc. node	14735 Aug 07 08:23	11°M)27'46	
asc. node	14734 Aug 20 11:46	21°Mp48'06		evening max el	14735 Aug 18 18:40	27° m 44'33	18°06'45
	14734 Aug 25 04:06	0∘ ⊽			14735 Aug 21 14:23	0∘ ⊽	
evening max el	14734 Sep 04 04:02	14° ≏ 20'12	18°02'46	retrograde	14735 Aug 25 03:38	1° ≏ 05'01	
retrograde	14734 Sep 10 20:27	17° ≏ 46'48		evening set	14735 Aug 27 21:36	0° £ 25'37	
evening set	14734 Sep 13 06:00	17° ≏ 20'08			14735 Aug 28 16:47	30° ₽, ™)	
inferior conj	14734 Sep 20 01:01	12° ♀ 19'45	0°39'46	inferior conj	14735 Sep 03 02:23	25° m 07'33	1°43'18
minimum elong	14734 Sep 20 02:13	12° ♀ 16'51	0°39'26	minimum elong	14735 Sep 03 04:43	25° Mp 01'13	1°42'23
desc. node	14734 Sep 22 05:02	10° ♀ 14'01		min. Earth dist.	14735 Sep 05 18:53	22° m 12'57	0.63162 AU
min. Earth dist.	14734 Sep 23 03:51	9° ₽ 20'39	0.60913 AU	morning rise	14735 Sep 09 09:45	18° m 54'16	
morning rise	14734 Sep 26 19:28	6° Ω 25'08		desc. node	14735 Sep 09 02:33	19° m)08'04	
direct	14734 Oct 03 10:37	4° ₽ 13'20		direct	14735 Sep 16 01:33	16° Mp 24'36	
morning max el	14734 Oct 17 16:30	12° ⊆ 08'15	27°57'18	morning max el	14735 Sep 30 00:54	24° m) 25'23	27°49'47
morning max cr	14734 Oct 31 20:00	0°M	27 37 10	morning max ci	14735 Oct 05 02:17	0∘ ⊽	2/ 7/7/
1-		27°M25'16			14735 Oct 05 02:17 14735 Oct 25 05:49	0 == 0° ™	
asc. node	14734 Nov 16 13:36			1			
	14734 Nov 17 20:26	0° ₹		asc. node	14735 Nov 03 10:23	17°M20'05	
morning set	14734 Nov 19 18:19	3° ∡ 55'45		morning set	14735 Nov 03 14:26	17°M40'33	
max. Earth dist.	14734 Nov 25 13:56	16° ∡ ¹27'21	1.31315 AU	max. Earth dist.	14735 Nov 08 15:25	28° M ₁10'19	1.32082 AU
					14735 Nov 09 11:51	0° ∡ ¹	
superior conj	14734 Nov 26 23:46	19° ∡ ′34′55	1°24'01				
minimum elong	14734 Nov 26 21:50		1°24'46	superior conj	14735 Nov 11 07:43	3° ∡ '57'59	1°08'14
	14734 Dec 01 16:20	0° ろ		minimum elong	14735 Nov 11 05:25	3° х 45′25	1°08'46
evening rise	14734 Dec 03 16:27	4° る 22'44		evening rise	14735 Nov 18 03:22	18° ∡ 52'46	
	14734 Dec 17 01:18	0° ≈			14735 Nov 23 11:53	0°ರ	
desc. node	14734 Dec 19 02:31	3° ≈ 14'15		desc. node	14735 Dec 05 23:31	20° る 48'06	
evening max el	14734 Dec 30 14:07	17° ≈ 34'59	25°22'14	evening max el	14735 Dec 12 00:40	27° る 43'55	23°44'00
retrograde	14735 Jan 13 10:46	24° ≈ 33'09		•	14735 Dec 14 14:39	0° ≈ ≈	
evening set	14735 Jan 19 06:15	23° ≈ 16′19		retrograde	14735 Dec 25 12:10	4° ≈ 25'31	
min. Earth dist.	14735 Jan 24 02:28	20°≈35'29	0.56865 AU	evening set	14735 Dec 30 04:28	3°≈37'58	
inferior conj	14735 Jan 26 21:00	18° ≈ 44'46		min. Earth dist.	14736 Jan 05 11:46	0°≈35'24	0.55312 AU
minimum elong	14735 Jan 27 06:05	18° ≈ 29'37		mm. Latin dist.	14736 Jan 06 11:45	30°Rる	0.55512710
_			4 40 10				50.4712.0
morning rise	14735 Feb 04 08:36	14°≈32'14		inferior conj	14736 Jan 07 06:28	29°る32'12	
direct	14735 Feb 06 11:21	14°≈19'03		minimum elong	14736 Jan 07 11:50	29°る24'14	5°45'57
asc. node	14735 Feb 12 12:01	16°≈13'59	1000 555	morning rise	14736 Jan 15 20:54	25° る 37'32	
morning max el	14735 Feb 15 15:49	18° ≈ 47'22	19°06'01	direct	14736 Jan 18 11:31	25° る 20'38	
	14735 Feb 23 22:14	0° ∀			14736 Jan 28 16:08	0° ≈	
morning set	14735 Mar 04 06:34	15°) 36′48		morning max el	14736 Jan 29 05:13	0° ≈ 30'46	20°16'13
	14735 Mar 11 13:48	0° Y		asc. node	14736 Jan 30 09:26	1° ≈ 42′19	
					14736 Feb 16 10:09	0° ∀	
superior conj	14735 Mar 12 15:38	2° Y ′04'25	0°36'44	morning set	14736 Feb 16 12:45	0° 米 13'19	
minimum elong	14735 Mar 12 17:46	2° Y 14'41	0°36'26				
-							

gunariar agni	14726 Eab 24 04:07	150 W 52120	1901151	marning gat	14727 Ion 20 22:52	1490057146	
superior conj minimum elong	14736 Feb 24 04:07 14736 Feb 24 06:46	15° ¥ 52'39 16° ¥ 06'00	1°01'51 1°01'49	morning set	14737 Jan 30 22:52	14° ≈ 57'46	
max. Earth dist.	14736 Feb 29 19:39	26°\(\)56'34	1.36565 AU	superior conj	14737 Feb 07 02:23	0° ₩ 06'27	1°20'12
man zarin dist.	14736 Mar 02 10:39	0°Υ	1.50000 110	minimum elong	14737 Feb 07 04:42	0°) 18'33	1°20'33
desc. node	14736 Mar 03 00:32	1° Y 04'30			14737 Feb 07 01:09	0°) €	
evening rise	14736 Mar 04 14:34	3° Ƴ 58'47		max. Earth dist.	14737 Feb 11 07:56	8°) 49′06	1.34577 AU
C	14736 Mar 20 08:47	0°8		evening rise	14737 Feb 15 13:28	17°) 07′24	
evening max el	14736 Apr 09 02:09	25° 8 09'45	25°48'45	desc. node	14737 Feb 17 21:05	21°) 28'48	
	14736 Apr 14 22:13	$\Pi^{\circ}0$			14737 Feb 22 15:18	0° Y	
retrograde	14736 Apr 21 15:04	2° Ⅱ 22'34			14737 Mar 14 16:55	9° 8	
asc. node	14736 Apr 27 05:57	0° Ⅱ 14′02		evening max el	14737 Mar 22 16:05	8° 8 55'09	26°47'51
evening set	14736 Apr 27 16:17	29° 8 53'09		retrograde	14737 Apr 04 21:22	16° 8 21'09	
	14736 Apr 27 12:58	30° ₹ 8		evening set	14737 Apr 11 08:18	13° 8 49'03	
min. Earth dist.	14736 May 01 21:46	25° 8 19'53	0.67519 AU	asc. node	14737 Apr 14 03:20	11° 8 10'47	
inferior conj	14736 May 03 10:44	23° 8 22'49	1°48'18	min. Earth dist.	14737 Apr 15 08:18	9° 8 50'05	0.66152 AU
minimum elong	14736 May 03 08:38	23° 8 29'29	1°46'53	inferior conj	14737 Apr 17 09:51	7° 8 24'39	1°00'17
morning rise	14736 May 09 01:36	17° 8 33'58		minimum elong	14737 Apr 17 08:22	7° 8 29'00	0°59'12
direct	14736 May 12 10:25	16° 8 29'08		morning rise	14737 Apr 23 09:41	1° 8 47'30	
morning max el	14736 May 19 03:53	20° 8 06'50	18°51'11	direct	14737 Apr 26 08:24	0° 8 59'38	
	14736 May 27 02:13	0°II		morning max el	14737 May 02 17:15	4° 8 20'21	18°12'28
desc. node	14736 May 30 02:18	4° Ⅱ 23'10		desc. node	14737 May 16 23:10	24° 8 20'46	
greatest brilliancy	14736 Jun 01 19:23	8° Ⅱ 28'14	-0.8m		14737 May 20 11:58	0°Ⅱ	
morning set	14736 Jun 10 15:40	22° I 107'00		morning set	14737 May 22 00:41	2° Ⅱ 27'15	
To all III	14736 Jun 15 17:25	0°99	1 45710 411		14727 1 06 06 21	260 T 26124	2001122
max. Earth dist.	14736 Jun 25 03:51	14°9542'00	1.45718 AU	superior conj	14737 Jun 06 06:31	26° Ⅱ 36'34	
	14726 I 26 22:00	17062057	2012145	minimum elong	14737 Jun 05 22:56	26° Ⅱ 06'52 29° Ⅱ 19'10	2°01°55 1.45899 AU
superior conj minimum elong	14736 Jun 26 22:00 14736 Jun 26 21:13	17° © 26'57 17° © 23'52		max. Earth dist.	14737 Jun 08 00:08 14737 Jun 08 10:36	29° 1 19°10	1.43899 AU
minimum ciong	14736 Jul 26 21:13	17 3 23 32	2 1443	evening rise	14737 Jun 22 08:17	0 3 21° 9 37'21	
evening rise	14736 Jul 12 03:26	11° Ω 37'59		evening rise	14737 Jun 27 17:55	21 3 3/21	
evening rise	14736 Jul 23 16:25	0° m)		greatest brilliancy	14737 Jul 27 17:53	8° Ω 56'05	-0.7m
asc. node	14736 Jul 24 05:04	0°Mp47'56		asc. node	14737 Jul 11 01:50	19° Ω 41'35	0.7111
evening max el	14736 Aug 01 08:20	11° Mp 24'09	18°28'41	evening max el	14737 Jul 15 18:22	25°Ω11'50	19°07'42
retrograde	14736 Aug 07 19:05	14° m) 51'47		retrograde	14737 Jul 22 15:30	28° £ 59′50	
evening set	14736 Aug 10 22:00	13° m 57'06		evening set	14737 Jul 26 03:47	27° Ω 48'19	
inferior conj	14736 Aug 16 16:08	8° m/23'21	2°27'20	inferior conj	14737 Jul 31 14:46	22° Ω 00'21	2°54'46
minimum elong	14736 Aug 16 18:25	8° m) 16'31	2°26'19	minimum elong	14737 Jul 31 16:21	21° Ω 55'12	2°53'49
min. Earth dist.	14736 Aug 18 19:09	5° m 50'50	0.65178 AU	min. Earth dist.	14737 Aug 02 03:23	20° Ω 02'20	0.66827 AU
morning rise	14736 Aug 22 13:35	2° m/00'38		morning rise	14737 Aug 06 04:16	15° Ω 34'57	
	14736 Aug 25 20:06	30°R Ω		direct	14737 Aug 12 06:59	12° Ω 57'32	
desc. node	14736 Aug 26 00:04	29° Ω 56′09		desc. node	14737 Aug 12 21:34	12° Ω 58'56	
direct	14736 Aug 29 00:50	29° £ 22′26		morning max el	14737 Aug 24 22:54	20° Ω 30′25	26°02'03
	14736 Sep 01 10:19	0° m)			14737 Sep 02 03:12	0° m y	
morning max el	14736 Sep 11 11:42	7° m) 16'28	27°08'40		14737 Sep 22 05:17	0∘ ⊽	
	14736 Sep 29 01:49	0∘ ⊽		morning set	14737 Sep 29 22:01	13° ≏ 35′26	
	14736 Oct 16 13:07	0°M₊		max. Earth dist.	14737 Oct 03 15:46	20° ≏ 39'01	1.35228 AU
morning set	14736 Oct 17 00:49	0° M 56′29		asc. node	14737 Oct 07 03:43	27° ≙ 31'22	
asc. node	14736 Oct 20 07:05	7°M23'34	1 22 400 4 77		14737 Oct 08 09:15	0° M ₊	
max. Earth dist.	14736 Oct 21 08:26	9°11L32'09	1.33400 AU		14535 0 . 00 0643	107 4001	0010104
aumonic	14726 0-4 25 10 44	100M 0400	0046127	superior conj	14737 Oct 09 06:12	1°M46'21 1°M40'46	0°19'24
superior conj	14736 Oct 25 10:44	18°M04'08	0°46'37	minimum elong	14737 Oct 09 05:06		0°19'39
minimum elong	14736 Oct 25 08:39	17°M53'04	0°46'57	evening rise	14737 Oct 16 22:13	17° M .40'11 0° ∡'	
avanina riaa	14736 Oct 31 00:25	0° ⊼ ¹ 2°. ⊼ 120/22		avanina may al	14737 Oct 23 02:23		20021150
evening rise	14736 Nov 01 13:57 14736 Nov 16 02:21	3° メ 20'23 0°る		evening max el desc. node	14737 Nov 04 09:41 14737 Nov 08 17:53	18° ₹ 10'42 21° ₹ 39'54	20°31'59
desc. node	14736 Nov 21 20:38	7° る 05'10		retrograde	14737 Nov 08 17:33	23° х 42'05	
evening max el	14736 Nov 21 20.38	7°る44'04	22°01'57	evening set	14737 Nov 13 12.10	23° × ¹ 42'03	
retrograde	14736 Dec 05 01:39	13°る57'06	22 0137	inferior conj	14737 Nov 26 16:48	19° 🖈 34'23	-5°04'10
evening set	14736 Dec 08 09:40	13° る 37'00		minimum elong	14737 Nov 26 07:04	19° х 48'31	5°00'53
min. Earth dist.	14736 Dec 16 17:45		0.54515 AU	min. Earth dist.	14737 Nov 27 23:43	18° × ⁷ 49'31	0.54639 AU
inferior conj	14736 Dec 17 00:55	9° ට 39'44		morning rise	14737 Dec 04 18:37	15° ∡ 136'15	
minimum elong	14736 Dec 16 21:25	9° ට 44'37		direct	14737 Dec 09 06:36	14° ₹ 52'47	
morning rise	14736 Dec 25 10:04	5° る 52'28		morning max el	14737 Dec 22 15:19		23°36'16
direct	14736 Dec 28 22:04	5° ට 25'21		-	14737 Dec 29 23:44	ರ∘ರ	
morning max el	14737 Jan 10 03:47	11° る 18'45	21°48'42	asc. node	14738 Jan 03 04:00	6° ට 16'07	
asc. node	14737 Jan 16 06:46	18° ට 29'08		morning set	14738 Jan 15 10:41	29° る 42'52	
	14737 Jan 23 10:05	0° ≈			14738 Jan 15 13:53	0° ≈	

superior conj	14738 Jan 22 07:17	14° ≈ 36'02	1°31'59	direct	14738 Nov 20 00:42	24°MJ17'40	
minimum elong	14738 Jan 22 08:46	14° ≈ 44'01	1°32'42		14738 Dec 02 13:10	0° ∡ ¹	
max. Earth dist.	14738 Jan 25 03:42	20° ≈ 42'41	1.32974 AU	morning max el	14738 Dec 04 00:55	1° ∡ "21′20	25°23'08
	14738 Jan 29 15:39	0°) €		asc. node	14738 Dec 21 01:08	24° ∡ ¹48'40	
evening rise	14738 Jan 30 00:38	0°){ 44′59			14738 Dec 23 20:48	ರ∘ರ	
desc. node	14738 Feb 04 17:40	11°) 41′02		morning set	14738 Dec 30 22:22	14° る 23'38	
	14738 Feb 15 15:18	0° Y					
evening max el	14738 Mar 05 05:17	22° Y ′21′26	27°25'12	superior conj	14739 Jan 06 16:22	29° る 14'42	1°37'29
retrograde	14738 Mar 18 21:11	29° Y 50'46		minimum elong	14739 Jan 06 16:48	29° る 17'05	1°38'25
evening set	14738 Mar 25 15:13	27° Y °22'13			14739 Jan 07 00:34	0° ≈	
min. Earth dist.	14738 Mar 29 11:07	23° Y ′54'48	0.64403 AU	max. Earth dist.	14739 Jan 08 06:20	2° ≈ 43'54	1.31841 AU
inferior conj	14738 Apr 01 00:39	21° Y 10'46		evening rise	14739 Jan 13 21:04	14° ≈ 44′26	
minimum elong	14738 Apr 01 00:40	21° Y 10'44	0°00'22		14739 Jan 21 17:06	0° ∀	
transit middle	14738 Apr 01 00:40	21° Υ ′10'44	0°00'22	desc. node	14739 Jan 22 14:19	1° ¥ 35'51	
transit begin	14738 Mar 31 21:34	21° Υ 19'01			14739 Feb 10 16:49	0° Υ	
transit end	14738 Apr 01 03:45	21° Υ '02'29		evening max el	14739 Feb 15 15:52	5° Y 16'19	27°34'02
asc. node	14738 Apr 01 00:46	21°Υ10'26		retrograde	14739 Mar 01 13:40	12° Y 41'48	
morning rise	14738 Apr 07 12:10	15° Y 47'46		evening set	14739 Mar 08 10:30	10° Y ′24′09	
direct	14738 Apr 10 01:56	15°Υ13'52	1,505,015,4	min. Earth dist.	14739 Mar 12 04:37	7° Υ 23'10	0.62356 AU
morning max el	14738 Apr 16 10:14	18° Y 29'48	17°50'54	inferior conj	14739 Mar 15 04:05	4° Υ 33'22 4° Υ 27'25	
	14738 Apr 25 00:06	0° と 14° と 07'52		minimum elong	14739 Mar 15 06:34	4°γ2/25 1° Υ 16'40	1°11'55
morning set desc. node	14738 May 03 13:34	14° 6 07'32		asc. node	14739 Mar 18 22:15	30°R ₩	
desc. node	14738 May 03 19:54 14738 May 13 03:34	0° Ⅱ		morning rise	14739 Mar 20 22:48 14739 Mar 22 05:32	30°₹ ⊼ 29° ¥ 27'10	
	14/36 May 13 03.34	υщ		direct	14739 Mar 24 11:47	29° X 03'51	
superior conj	14738 May 17 01:52	6° Ⅱ 20'46	_1°32'13	direct	14739 Mar 27 23:00	29 γ (03 31	
minimum elong	14738 May 17 01:32	5° Π 46'26		morning max el	14739 Mar 31 03:51	2° Υ 26'31	17°46'54
max. Earth dist.	14738 May 21 20:09		1.45327 AU	morning set	14739 Apr 16 02:07	26°Υ55'15	17 4034
max. Dartii dibt.	14738 Jun 01 04:50	0°95	1.13327710	morning sec	14739 Apr 17 20:08	0°8	
evening rise	14738 Jun 01 21:18	1°503'02		desc. node	14739 Apr 20 16:32	4° 8 59'06	
greatest brilliancy	14738 Jun 16 18:48	23°\$22'05	-0.6m				
8	14738 Jun 21 11:52	$0^{\circ}\Omega$		superior conj	14739 Apr 27 19:02	17° 8 06'58	-0°54'27
asc. node	14738 Jun 27 22:40	7° Ω 59'41		minimum elong	14739 Apr 27 13:48	16° 8 45'07	0°54'21
evening max el	14738 Jun 28 22:55	9° Ω 02'33	20°02'27	max. Earth dist.	14739 May 04 13:07	28° 8 11'27	1.44070 AU
retrograde	14738 Jul 06 14:13	13° Ω 22'56			14739 May 05 16:13	$\Pi^{\circ}0$	
evening set	14738 Jul 10 12:26	11° Ω 54'05		evening rise	14739 May 12 10:07	10° Ⅱ 35'57	
inferior conj	14738 Jul 15 19:23	5° Ω 53'18	3°08'16		14739 May 25 08:11	0 \circ \odot	
minimum elong	14738 Jul 15 20:02	5° Ω 51′07	3°07'21	evening max el	14739 Jun 11 21:26	22° © 53'30	21°10'32
min. Earth dist.	14738 Jul 16 17:52	4° Ω 37′03	0.68035 AU	asc. node	14739 Jun 14 19:37	25° © 30'02	
	14738 Jul 20 14:17	30°ષ્દ્		retrograde	14739 Jun 20 13:06	27° © 55'04	
morning rise	14738 Jul 21 03:16	29° 5 29'42		evening set	14739 Jun 24 21:53	26° © 09'17	
direct	14738 Jul 26 19:01	27° © 00'55		inferior conj	14739 Jun 30 03:35	19° 9 57'16	3°09'46
desc. node	14738 Jul 30 19:00	28° © 01'58		minimum elong	14739 Jun 30 03:14	19° 9 58'27	3°08'46
	14738 Aug 02 22:46	$0^{\circ}\Omega$		min. Earth dist.	14739 Jun 30 12:32	19° © 26'06	0.68777 AU
morning max el	14738 Aug 07 09:40	3° Ω 58'13	24°39'17	morning rise	14739 Jul 05 08:21	13°938'23	
	14738 Aug 27 09:05	0° m)		direct	14739 Jul 10 11:56	11°5524'04	
morning set	14738 Sep 12 02:00	25° m/28'12		desc. node	14739 Jul 17 16:21	14°939'21	22000154
may Earth dist	14738 Sep 14 15:15	0° ი	1 27426 ATT	morning max el	14739 Jul 20 20:42	17°933'55	23°09'54
max. Earth dist.	14738 Sep 15 15:54	1° ≏ 51'20	1.37436 AU		14739 Jul 31 05:10	0° Ω 0° m	
superior conj	14738 Sep 22 14:55	14° £ 56'56	0012142	morning set	14739 Aug 20 10:28 14739 Aug 24 08:15	6° Mg 23'31	
minimum elong	14738 Sep 22 14:33	14 ≥ 30 30 15° ♀ 00'57		max. Earth dist.	14739 Aug 24 08:13	13° My 34'22	1.39814 AU
behind sun begin	14738 Sep 22 11:25	13 ⊆ 00 37 14° ⊆ 39'56	0 12 23	max. Earth dist.	14/39 Aug 20 14.09	13 III 34 22	1.39814 AU
behind sun end	14738 Sep 22 20:04	15° £ 22'00		superior conj	14739 Sep 05 08:53	27° m 25'59	-0°48'03
asc. node	14738 Sep 24 00:17	17° ⊆ 39'55		minimum elong	14739 Sep 05 06:35	27° m/23'37	
use. Hode	14738 Sep 30 04:37	0° ™		minimum ciong	14739 Sep 06 18:11	0∘ ರ 7, ಗ್ರೇ 153,	0 1730
evening rise	14738 Oct 01 01:48	1°M46'13		asc. node	14739 Sep 10 20:48	ი — 7° ჲ 45'03	
evening max el	14738 Oct 17 21:33	29°M24'57	19°22'35	evening rise	14739 Sep 14 21:43	15° ♀ 30'02	
5	14738 Oct 18 11:59	0° ∡		C -	14739 Sep 22 17:38	0° M ,	
desc. node	14738 Oct 26 15:13	4° ₹ '08'06		evening max el	14739 Sep 30 22:07		18°35'21
retrograde	14738 Oct 27 08:52	4° ₹ 09'45		retrograde	14739 Oct 08 23:19	15°MJ31'07	
evening set	14738 Oct 29 05:59	3° х 59′19		evening set	14739 Oct 10 21:55	15° M 17'41	
inferior conj	14738 Nov 06 20:36	29° M 51'11	-3°29'10	desc. node	14739 Oct 13 12:39	14° M 20'49	
minimum elong	14738 Nov 06 11:57	0° ∡ °05′19	3°25'18	inferior conj	14739 Oct 18 20:40	10°M49'56	-1°42'18
	14738 Nov 06 15:12	30°RM		minimum elong	14739 Oct 18 16:33	10°M57'46	1°40'03
min. Earth dist.	14738 Nov 09 09:15	28° ™ 12'17	0.55668 AU	min. Earth dist.	14739 Oct 22 00:54	8° M 25′29	0.57417 AU
morning rise	14738 Nov 14 15:42	25°M23'08		morning rise	14739 Oct 26 07:43	5°M44'33	

direct	14739 Nov 01 09:25	4° M 12′25		transit begin	14740 Sep 29 14:55	22° ≏ 42'40	
morning max el	14739 Nov 15 15:50	11°M41'34	26°50'27	transit end	14740 Sep 29 21:12	22° ≏ 28'43	
	14739 Nov 29 21:38	0° ∡ ¹		min. Earth dist.	14740 Oct 03 00:33	19° ≏ 42'44	0.59597 AU
asc. node	14739 Dec 07 22:09	13° ∡ ′54'31		morning rise	14740 Oct 06 19:11	16° ≏ 56'21	
morning set	14739 Dec 15 08:12	28° ₹ ′55'02		direct	14740 Oct 13 07:32	14° ≏ 57'39	
	14739 Dec 15 20:17	ರ°0		morning max el	14740 Oct 27 14:29	22° ≏ 44'47	27°44'08
					14740 Nov 03 01:31	0° M $_{\circ}$	
superior conj	14739 Dec 22 03:34	13° る 56'09	1°36'56		14740 Nov 22 00:41	0° ∡ ¹	
minimum elong	14739 Dec 22 02:56	13° る 52'37	1°37'55	asc. node	14740 Nov 23 19:03	3° ∡ ¹24'38	
max. Earth dist.	14739 Dec 22 13:16	14° පි 50'21	1.31214 AU	morning set	14740 Nov 28 14:20	13° ∡ 12'07	
evening rise	14739 Dec 29 00:13	28° る 59'24		max. Earth dist.	14740 Dec 04 21:08	26° ∡ ¹54'55	1.31119 AU
	14739 Dec 29 11:40	0° ≈					
desc. node	14740 Jan 09 11:03	21° ≈ 06′12		superior conj	14740 Dec 05 14:59	28° ∡ ³34'32	1°30'26
	14740 Jan 14 22:26	0°) €		minimum elong	14740 Dec 05 13:26	28° ∡ ¹25'55	1°31'19
evening max el	14740 Jan 28 21:31	17° ¥ 28'31	27°09'27		14740 Dec 06 06:16	0°ಕ	
retrograde	14740 Feb 11 21:37	24°) 45′08		evening rise	14740 Dec 12 07:53	13° る 24'08	
evening set	14740 Feb 18 15:03	22°) 46′28			14740 Dec 20 13:24	0° ≈	
min. Earth dist.	14740 Feb 22 11:59	20°) €03'25	0.60148 AU	desc. node	14740 Dec 26 07:53	10° ≈ 02'07	
inferior conj	14740 Feb 25 16:39	17°) €23'40	-2°36'13	evening max el	14741 Jan 09 19:51	28° ≈ 49'15	26°10'14
minimum elong	14740 Feb 25 22:24	17°) 11'38	2°33'40		14741 Jan 11 02:53	0°) €	
morning rise	14740 Mar 04 09:06	12°) 36′55		retrograde	14741 Jan 23 18:51	5°) 53′59	
asc. node	14740 Mar 04 19:43	12° ¥ 30'39		evening set	14741 Jan 30 01:01	4° ¥ 20'59	
direct	14740 Mar 06 10:12	12° ¥ 20′29		min. Earth dist.	14741 Feb 03 09:11	1°) 43'49	0.57986 AU
morning max el	14740 Mar 13 18:40	16° ₩ 00'47	18°01'24		14741 Feb 05 18:50	30° R ≈	
•	14740 Mar 23 12:57	0° Υ		inferior conj	14741 Feb 06 10:40	29° ≈ 31'07	-4°03'04
morning set	14740 Mar 29 08:20	10° Ƴ 31'37		minimum elong	14741 Feb 06 19:19	29° ≈ 15'28	3°59'43
desc. node	14740 Apr 06 13:06	25° Ƴ 30'39		morning rise	14741 Feb 14 16:40	25° ≈ 05'41	
	1			direct	14741 Feb 16 16:53	24° ≈ 52'24	
superior conj	14740 Apr 08 11:54	28° Ƴ 58'27	-0°15'44	asc. node	14741 Feb 19 17:11	25° ≈ 23'52	
minimum elong	14740 Apr 08 10:33	28° Y ′52'30	0°15'55	morning max el	14741 Feb 25 02:46	29° ≈ 00'39	18°36'04
behind sun begin	14740 Apr 08 09:57	28° Ƴ 49'49		Č	14741 Feb 26 01:48	0°) €	
behind sun end	14740 Apr 08 11:10	28° Ƴ 55'11		morning set	14741 Mar 13 02:53	24° ¥ 40′27	
	14740 Apr 09 01:54	0°B		C	14741 Mar 15 20:59	$0^{\circ}\mathbf{Y}$	
max. Earth dist.	14740 Apr 16 01:31	11° 8 55'47	1.42267 AU				
evening rise	14740 Apr 21 13:10	20° 8 51'32		superior conj	14741 Mar 22 01:12	11° Y '44'54	0°19'14
· ·	14740 Apr 27 09:27	Π°		minimum elong	14741 Mar 22 02:29	11° Y 50'55	0°18'55
	14740 May 18 15:32	0°ಅ		desc. node	14741 Mar 24 09:37	16° Ƴ 04'47	
evening max el	14740 May 24 15:02	6° © 45'48	22°27'57	max. Earth dist.	14741 Mar 29 09:52	25° Y ′00'08	1.40113 AU
asc. node	14740 May 31 16:41	11° © 58'03			14741 Apr 01 07:50	0°8	
retrograde	14740 Jun 03 10:32	12° © 31'32		evening rise	14741 Apr 02 12:50	2° 8 01'48	
evening set	14740 Jun 08 06:30	10°530'04			14741 Apr 20 16:29	$\Pi^{\circ}0$	
inferior conj	14740 Jun 13 13:19	4°908'49	3°00'27	evening max el	14741 May 07 05:41	20° Ⅲ 39'25	23°49'13
minimum elong	14740 Jun 13 12:06	4°9513'04	2°59'17	retrograde	14741 May 18 05:01	27° Ⅱ 05'50	
min. Earth dist.	14740 Jun 13 09:15	4° 5 23'02	0.69040 AU	asc. node	14741 May 18 13:52	27° Ⅲ 05'14	
	14740 Jun 16 16:55	30° Ŗ Ⅱ		evening set	14741 May 23 12:39	24° Ⅱ 50'43	
morning rise	14740 Jun 18 17:33	27° Ⅱ 56'40		min. Earth dist.	14741 May 28 05:46	19° Ⅱ 20'39	0.68822 AU
direct	14740 Jun 23 08:40	26° Ⅱ 00'37		inferior conj	14741 May 28 22:40	18° Ⅲ 22'56	2°40'47
	14740 Jul 01 01:54	0 \circ \mathfrak{S}		minimum elong	14741 May 28 20:47	18° Ⅲ 29'19	2°39'26
morning max el	14740 Jul 02 10:36	1° © 18'08	21°42'52	morning rise	14741 Jun 03 04:56	12° Ⅱ 18'58	
desc. node	14740 Jul 03 13:34	2° © 27'45		direct	14741 Jun 07 07:47	10° Ⅱ 43'04	
	14740 Jul 24 00:43	$0^{\circ}\Omega$		morning max el	14741 Jun 15 06:23	15° Ⅲ 12'40	20°25'05
morning set	14740 Aug 03 14:04	16° Ω 15'48		desc. node	14741 Jun 20 10:40	21° Ⅲ 07'35	
max. Earth dist.	14740 Aug 09 16:41	26° Ω 09'04	1.42089 AU		14741 Jun 27 00:20	0 \circ \odot	
	14740 Aug 12 00:14	0° m y		morning set	14741 Jul 13 23:04	25° © 15'40	
					14741 Jul 17 00:20	$0^{\circ}\Omega$	
superior conj	14740 Aug 17 07:53	9° m 04'56	-1°23'27	max. Earth dist.	14741 Jul 23 02:27	9° Ω 37'28	1.43981 AU
minimum elong	14740 Aug 17 14:22	9° m 33'11					
asc. node	14740 Aug 27 17:20	27° m 43'44		superior conj	14741 Jul 29 08:05	19° Ω 45'34	-1°53'42
evening rise	14740 Aug 28 06:17	28° m 42'59		minimum elong	14741 Jul 29 15:30	20° Ω 16′13	1°53'48
	14740 Aug 28 23:06	0∘ ⊽			14741 Aug 04 10:38	0° ™	
evening max el	14740 Sep 13 07:22	24° ₾ 09'03	18°09'02	evening rise	14741 Aug 10 22:47	11° M)13'11	
retrograde	14740 Sep 20 08:28	27° ≏ 44'56		asc. node	14741 Aug 14 13:57	17° m 31'46	
evening set	14740 Sep 22 13:37	27° ≏ 24'06			14741 Aug 22 03:20	0∘ ত	
desc. node	14740 Sep 29 10:06	22° ≏ 53'18		evening max el	14741 Aug 27 21:07	7° ≏ 20'43	18°02'14
inferior conj	14740 Sep 29 18:17	22° ≏ 35'13	-0°06'25	retrograde	14741 Sep 03 08:58	10° ≏ 42'45	
minimum elong	14740 Sep 29 18:04	22° ≏ 35'42	0°06'02	evening set	14741 Sep 05 22:10	10° ≙ 10'51	
transit middle	14740 Sep 29 18:04	22° ≏ 35'42	0°06'02	inferior conj	14741 Sep 12 10:41	5° ഫ 02'32	1°09'18

	14741 8 12 12-22	40 0 57147	1000120		14742 4 20 10-02	220 m 2012 E	
minimum elong	14741 Sep 12 12:32	4° £ 57'47	1°08'38	evening set	14742 Aug 20 18:02	23° Mp 28'35	2004112
min. Earth dist.	14741 Sep 15 09:38	2° £ 03'11	0.61892 AU	inferior conj	14742 Aug 26 17:48	18° Mp 03'16	2°04'13
desc. node	14741 Sep 16 07:36	1° £ 11'13		minimum elong	14742 Aug 26 20:13	17° Mp 56'24	2°03'13
	14741 Sep 17 16:17	30°R, M)		min. Earth dist.	14742 Aug 29 04:38	15° Mp 16'30	0.64056 AU
morning rise	14741 Sep 19 00:22	28° m 59'02		morning rise	14742 Sep 01 20:44	11° m) 44'56	
direct	14741 Sep 25 16:36	26° m/38'46		desc. node	14742 Sep 03 05:08	10° m 47'46	
	14741 Oct 04 11:06	0∘ ⊽		direct	14742 Sep 08 11:02	9° m 10'50	
morning max el	14741 Oct 09 20:03	4° ≙ 36'34	27°58'43	morning max el	14742 Sep 22 05:58	17° m) 10'07	27°36'06
	14741 Oct 28 20:31	0°M₊			14742 Oct 02 22:47	0∘ ⊽	
asc. node	14741 Nov 10 15:52	23°M12'11			14742 Oct 21 16:26	0° M .	
morning set	14741 Nov 12 14:48	27°M10'22		morning set	14742 Oct 27 07:07	10°M43'33	
	14741 Nov 13 23:28	0° ∡ ¹		asc. node	14742 Oct 28 12:36	13°M11'06	
max. Earth dist.	14741 Nov 18 02:14	8° ∡ ¹49'11	1.31572 AU	max. Earth dist.	14742 Nov 01 00:42	20°M24'23	1.32578 AU
superior conj	14741 Nov 20 00:46	13° ∡ °04'51	1°18'03	superior conj	14742 Nov 04 06:52	27°M21'03	0°59'47
minimum elong	14741 Nov 19 22:37	12° ₹ 52'57	1°18'43	minimum elong	14742 Nov 04 04:34	27°M08'39	1°00'12
evening rise	14741 Nov 26 18:10	27° ∡ ¹53'57			14742 Nov 05 12:13	0° ∡ 7	
	14741 Nov 27 17:37	0°₹		evening rise	14742 Nov 11 05:10	12° ∡ ¹23'27	
desc. node	14741 Dec 13 04:50	28° පි 10'56			14742 Nov 20 00:32	0°ಕ	
	14741 Dec 14 11:32	0° ≈		desc. node	14742 Nov 30 01:55	15° ට 14'48	
evening max el	14741 Dec 22 09:51	9° ≈ 19'35	24°42'14	evening max el	14742 Dec 03 19:21	19° る 18'48	22°59'55
retrograde	14742 Jan 05 03:20	16° ≈ 10′52		retrograde	14742 Dec 16 23:06	25° る 50'28	
evening set	14742 Jan 10 12:38	15° ≈ 06'44		evening set	14742 Dec 21 01:55	25° る 13'35	
min. Earth dist.	14742 Jan 15 21:40	12° ≈ 19'16	0.56129 AU	min. Earth dist.	14742 Dec 28 04:45	21° る 56'13	0.54865 AU
inferior conj	14742 Jan 18 07:47	10° ≈ 47'53	-5°18'26	inferior conj	14742 Dec 29 09:36	21° る 14'59	-5°58'26
minimum elong	14742 Jan 18 16:06	10° ≈ 34'46	5°15'57	minimum elong	14742 Dec 29 11:32	21° る 12'13	5°57'22
morning rise	14742 Jan 26 21:43	6° ≈ 43'38		morning rise	14743 Jan 06 22:35	17° ට 25'43	
direct	14742 Jan 29 04:28	6° ≈ 29'25		direct	14743 Jan 09 21:25	17° る 05'22	
asc. node	14742 Feb 06 14:36	9° ≈ 59'11		morning max el	14743 Jan 21 07:02	22° る 33'35	20°53'12
morning max el	14742 Feb 07 24:00	11° ≈ 14'36	19°33'00	asc. node	14743 Jan 24 11:58	26° ප 02'33	
•	14742 Feb 20 13:41	0° ₩			14743 Jan 27 11:34	0° ≈	
morning set	14742 Feb 25 05:47	9° ₩ 09'59		morning set	14743 Feb 09 13:55	23° ≈ 50'29	
C				· ·	14743 Feb 12 12:46	0° ∀	
superior conj	14742 Mar 05 06:30	25° ¥ 14'22	0°48'11				
minimum elong	14742 Mar 05 08:59	25° ¥ 26'32	0°47'59	superior conj	14743 Feb 16 23:34	9° ₩ 14'32	1°10'27
C	14742 Mar 07 17:27	0° Υ		minimum elong	14743 Feb 17 02:09	9°) 27'47	1°10'34
desc. node	14742 Mar 11 06:09	6° Ƴ 38'09		max. Earth dist.	14743 Feb 22 01:03	19° ¥ 22'38	1.35675 AU
max. Earth dist.	14742 Mar 11 16:26	7° Y 25'30	1.37837 AU	evening rise	14743 Feb 25 23:19	26°) 51′05	
evening rise	14742 Mar 15 09:11	14° Υ '04'32		desc. node	14743 Feb 26 02:41	27°) €06'39	
8 11	14742 Mar 24 21:59	0°B			14743 Feb 27 16:29	0°Υ	
	14742 Apr 15 13:03	0°II			14743 Mar 18 07:28	0°8	
evening max el	14742 Apr 19 19:13	4° Ⅱ 33'26	25°07'37	evening max el	14743 Apr 02 08:47	18° 8 23'28	26°16'01
retrograde	14742 May 01 19:34	11° I I32'13	20 0/3/	retrograde	14743 Apr 15 05:17	25° 8 43'38	20 10 01
asc. node	14742 May 05 11:09	10° I 35'51		evening set	14743 Apr 21 11:01	23° 8 12'02	
evening set	14742 May 07 14:43	9° I I06'35		asc. node	14743 Apr 22 08:30	22° 8 24'51	
min. Earth dist.	14742 May 11 23:59	4° Ⅱ 13'07	0.68132 AU	min. Earth dist.	14743 Apr 25 13:53	18° 8 53'55	0.66990 AU
inferior conj	14742 May 13 05:41	2° I 35'55	2°10'38	inferior conj	14743 Apr 27 08:21	16° 8 43'25	1°29'25
minimum elong	14742 May 13 03:32	2° I I43'00		minimum elong	14743 Apr 27 06:25	16° 8 49'21	1°28'06
minimum ciong	14742 May 15 06:51	30°R 8	2 0711	morning rise	14743 May 03 02:44	10° 8 59'37	1 20 00
morning rise	14742 May 18 16:40	26° 8 41'21		direct	14743 May 05 02.44 14743 May 06 07:04	10° 8 02'27	
direct	14742 May 22 07:50	25° 8 25'37		morning max el	14743 May 12 19:57	13° 8 31'17	18°32'40
	•	29° 8 18'16	19°20'55	desc. node	•	0° Ⅱ 10'41	16 32 40
morning max el	14742 May 29 09:40	0° Ⅱ	19 20 33	desc. node	14743 May 25 04:37	0 П 1041 0° П	
	14742 May 30 02:13			. ,	14743 May 25 01:50		
desc. node	14742 Jun 07 07:42	10° Ⅱ 25'14	0.7	morning set	14743 Jun 02 20:24	13° ∏ 42'04 0° ©	
greatest brilliancy	14742 Jun 11 02:09	15° Ⅱ 53'12	-0./m		14743 Jun 13 06:05	0-99	
	14742 Jun 20 10:17	0°©			14742 1 10 10 26	00640107	2010156
morning set	14742 Jun 23 02:15	4°505'23	1 45207 433	superior conj	14743 Jun 18 19:26	8°940'07	
max. Earth dist.	14742 Jul 05 18:15	23° © 45'46	1.45287 AU	minimum elong	14743 Jun 18 15:17	8°923'58	
	14740 X 1 00 00 1	200	2011120	max. Earth dist.	14743 Jun 18 13:23	8°916'34	1.45886 AU
superior conj	14742 Jul 09 09:13	29°529'16			14743 Jul 02 09:49	0° Ω	
minimum elong	14742 Jul 09 12:47	29°543'25	2°12'29	evening rise	14743 Jul 04 12:32	3° Ω 20'31	
	14742 Jul 09 16:58	0°Ω		greatest brilliancy	14743 Jul 12 16:44	16° Ω 14'52	-0.8m
evening rise	14742 Jul 23 18:01	22° Ω 47'54		asc. node	14743 Jul 19 07:19	26° Ω 14'16	
	14742 Jul 28 02:32	0° m y			14743 Jul 22 01:04	0° m)	
asc. node	14742 Aug 01 10:36	7° m 03'54		evening max el	14743 Jul 26 00:02	4° Mp 36′09	18°43'11
evening max el	14742 Aug 11 11:40	20° m 52'16	18°13'54	retrograde	14743 Aug 01 14:21	8° m)11'19	
retrograde	14742 Aug 17 20:18	24° m) 14'18		evening set	14743 Aug 04 21:06	7° ™ 09'44	

inferior conj	14743 Aug 10 11:47	1° m 29'39	2°40'48	asc. node	14744 Jul 05 04:08	14° Ω 54'21	
minimum elong	14743 Aug 10 11:47	1° m ₂ 23'18	2°39'49	evening max el	14744 Jul 08 07:53	$18^{\circ}\Omega 25'45$	19°29'09
minimum ciong	14743 Aug 11 16:34	30°RΩ	2 37 17	retrograde	14744 Jul 15 12:01	22°Ω26'18	1) 2) 0)
min. Earth dist.	14743 Aug 12 08:41	29° Ω 10'29	0.65926 AU	evening set	14744 Jul 19 04:21	21° Ω 07'40	
morning rise	14743 Aug 16 05:33	25°Ω04'46		inferior conj	14744 Jul 24 13:17	15°Ω14'15	3°02'01
desc. node	14743 Aug 21 02:38	22°Ω33'43		minimum elong	14744 Jul 24 14:30	15°Ω10'15	3°01'06
direct	14743 Aug 22 13:24	22° Ω 25'51		min. Earth dist.	14744 Jul 25 19:56	13° Ω 33'02	0.67401 AU
morning max el	14743 Sep 04 17:23	0° mp 13'31	26°42'53	morning rise	14744 Jul 30 00:05	8° Ω 48'59	
C	14743 Sep 04 12:01	0° m)		direct	14744 Aug 04 22:26	6° Ω 14'05	
	14743 Sep 26 21:46	0∘ ⊽		desc. node	14744 Aug 07 00:06	6° Ω 30′26	
morning set	14743 Oct 10 12:21	23° ≏ 45'03		morning max el	14744 Aug 17 04:20	13° Ω 34'05	25°28'04
	14743 Oct 13 17:45	0°M			14744 Aug 30 12:40	0° m)	
max. Earth dist.	14743 Oct 14 13:36	1°MJ38'29	1.34121 AU		14744 Sep 18 16:14	0∘ ⊽	
asc. node	14743 Oct 15 09:16	3°M17'00		morning set	14744 Sep 22 02:44	6° ≙ 05'34	
				max. Earth dist.	14744 Sep 25 16:49	12° ≏ 42'07	1.36131 AU
superior conj	14743 Oct 19 06:59	11°ML17'38	0°35'44	asc. node	14744 Oct 01 05:52	23° ≏ 25'32	
minimum elong	14743 Oct 19 05:12	11°ML08'22	0°36'00				
evening rise	14743 Oct 26 15:00	26° MJ $48'07$		superior conj	14744 Oct 01 22:17	24° ≏ 47'18	0°06'19
	14743 Oct 28 03:42	0° ∡ ¹		minimum elong	14744 Oct 01 21:53	24° ≏ 45'19	0°06'34
evening max el	14743 Nov 15 09:59	29° ∡ ¹25'32	21°21'26	behind sun begin	14744 Oct 01 16:06	24° ≙ 16'24	
	14743 Nov 16 00:19	0°ಕ		behind sun end	14744 Oct 02 03:41	25° ≙ 14'18	
desc. node	14743 Nov 16 23:05	0° る 51'19			14744 Oct 04 12:16	0° M	
retrograde	14743 Nov 27 10:15	5° る 22'44		evening rise	14744 Oct 09 21:33	11°ML02'26	
evening set	14743 Nov 30 05:43	5° る 04'29			14744 Oct 19 21:59	0° ∡ ¹	
inferior conj	14743 Dec 09 01:04	1°る12'27		evening max el	14744 Oct 27 13:38	10° ≯ 11'48	19°59'47
minimum elong	14743 Dec 08 18:05	1° පි 22'16		desc. node	14744 Nov 02 20:21	14° ∡ ³34'47 −	
min. Earth dist.	14743 Dec 09 10:30	0°る59'10	0.54447 AU	retrograde	14744 Nov 06 23:19	15° ∡ ¹22'46	
	14743 Dec 11 05:07	30°R ∡ 7		evening set	14744 Nov 09 00:18	15° ∡ 11'43	
morning rise	14743 Dec 17 06:59	27° ⋌ ¹22'49 –		inferior conj	14744 Nov 17 20:31	11° ∡ 13′00	
direct	14743 Dec 21 05:00	26° х 49'37		minimum elong	14744 Nov 17 10:27	11° ∡ 28′12	
	14743 Dec 30 08:05	0°る	222222	min. Earth dist.	14744 Nov 19 17:53	10° ₹ 04'20	0.54973 AU
morning max el	14744 Jan 03 00:09	3°る00'39	22°33'28	morning rise	14744 Nov 25 19:26	7° ∡ 103'44	
asc. node	14744 Jan 11 09:14	13° る 16'27		direct	14744 Nov 30 17:03	6° ∡ 11'16	2.402215.6
. ,	14744 Jan 20 21:09	0° ≈		morning max el	14744 Dec 14 09:36	12° ₹ 57'57	24°22'56
morning set	14744 Jan 25 00:54	8° ≈ 35'07		1	14744 Dec 27 10:10	0° 궁 1° 궁 24'33	
aumorior coni	14744 Feb 01 00:56	2200025124	1926100	asc. node	14744 Dec 28 06:25	1°624'33 23° る 18'53	
superior conj minimum elong	14744 Feb 01 00:56 14744 Feb 01 02:56	23°≈35'34	1°26'00	morning set	14745 Jan 08 12:52	23°€18'53	
minimum elong		23° ≈ 46'12 0° ∺	1 20 30		14745 Jan 11 14:39	0°≈	
max. Earth dist.	14744 Feb 04 02:04 14744 Feb 04 15:58		1.33832 AU	superior conj	14745 Jan 15 07:53	8° ≈ 09'58	1°35'05
evening rise	14744 Feb 04 13:38 14744 Feb 09 03:46	10° ∺ 12'25	1.33632 AU	minimum elong	14745 Jan 15 08:56	8°≈15'41	1°35'53
desc. node	14744 Feb 12 23:15	17°\ 26'06		max. Earth dist.	14745 Jan 17 14:46	13°≈08'11	1.32428 AU
desc. Hode	14744 Feb 20 03:28	0° Υ		evening rise	14745 Jan 22 19:15	24°≈00'37	1.32426 AU
	14744 Mar 12 22:18	0°8		evening rise	14745 Jan 25 19:40	0° ∺	
evening max el	14744 Mar 14 22:24	2° 8 01'23	27°06'55	desc. node	14745 Jan 29 19:50	7°) 31′54	
retrograde	14744 Mar 28 09:13	9° 8 30'55	27 0000	dese. node	14745 Feb 12 17:48	0°Υ	
evening set	14744 Apr 03 23:28	6° 8 59'19		evening max el	14745 Feb 25 10:54	15° Y 16'37	27°32'59
min. Earth dist.	14744 Apr 07 21:24	3° 8 14'14	0.65440 AU	retrograde	14745 Mar 11 06:08	22° Υ 45'10	
asc. node	14744 Apr 08 05:55	2° 8 50'38		evening set	14745 Mar 18 01:47	20° Y 20'36	
inferior conj	14744 Apr 10 04:15	0° 8 39'13	0°36'13	min. Earth dist.	14745 Mar 21 20:38	17° Ƴ 04'54	0.63554 AU
minimum elong	14744 Apr 10 03:18	0° 8 41'57	0°35'26	inferior conj	14745 Mar 24 14:39	14° Ƴ 16'47	-0°29'30
	14744 Apr 10 18:10	30° Ŗ ♈		minimum elong	14745 Mar 24 15:35	14° Ƴ 14'23	0°29'16
morning rise	14744 Apr 16 08:45	25° Y ′07'52		asc. node	14745 Mar 26 03:21	12° Y 44'58	
direct	14744 Apr 19 03:22	24° Y 26'30		morning rise	14745 Mar 31 07:49	9° Ƴ 00'17	
morning max el	14744 Apr 25 11:12	27° Y '44'07	18°01'12	direct	14745 Apr 02 18:07	8° Ƴ 31'21	
	14744 Apr 27 13:26	$0^{\circ}S$		morning max el	14745 Apr 09 04:47	11° Y 49'06	17°47'00
desc. node	14744 May 11 01:24	20° 8 15'43			14745 Apr 21 17:19	9° 8	
morning set	14744 May 13 17:24	24° 8 36'58		morning set	14745 Apr 25 17:08	6° 8 48'32	
	14744 May 17 00:43	Π °0		desc. node	14745 Apr 27 22:06	10° 8 34'43	
superior conj	14744 May 28 06:43	18° 耳 00'11	-1°50'38	superior conj	14745 May 08 10:35	28° 8 08'52	-1°16'44
minimum elong	14744 May 27 21:57	17° II 25'36		minimum elong	14745 May 08 03:09	27° 8 38'35	
max. Earth dist.	14744 May 31 09:24		1.45740 AU		14745 May 09 13:56	0° Ⅱ	1 1001
Zarui diot.	14744 Jun 04 22:54	0°9	,	max. Earth dist.	14745 May 14 04:14	7° Ⅱ 22'14	1.44872 AU
evening rise	14744 Jun 13 09:03	13°900'56		evening rise	14745 May 23 19:57	22° I 24'46	
	14744 Jun 24 12:22	0° Ω			14745 May 28 19:45	0°9	
greatest brilliancy	14744 Jun 26 13:48	3° Ω 03'50	-0.7m		14745 Jun 19 06:42	0°N	

		_					
evening max el	14745 Jun 21 09:59	2° Ω 17'17	20°29'57		14746 May 22 07:06	0	
asc. node	14745 Jun 22 01:01	2° Ω 54'00		evening max el	14746 Jun 04 06:17	16° © 08'50	21°42'36
retrograde	14745 Jun 29 10:54	6° Ω 53'54		asc. node	14746 Jun 08 22:01	19° © 59'54	
evening set	14745 Jul 03 13:34	5° Ω 17'48		retrograde	14746 Jun 13 09:18	21° © 28'39	
	14745 Jul 08 05:46	30° ₹ 5		evening set	14746 Jun 17 22:53	19° © 35'47	
inferior conj	14745 Jul 08 19:42	29° 5 012'19	3°10'14	inferior conj	14746 Jun 23 04:47	13° © 19'39	3°07'06
minimum elong	14745 Jul 08 19:55	29° © 11'33	3°09'18	minimum elong	14746 Jun 23 04:03	13° © 22'13	3°06'02
min. Earth dist.	14745 Jul 09 12:25	28° © 14'52	0.68420 AU	min. Earth dist.	14746 Jun 23 08:06	13° © 08'05	0.68951 AU
morning rise	14745 Jul 14 01:58	22° © 50'32		morning rise	14746 Jun 28 09:02	7° 5 03'43	
direct	14745 Jul 19 12:46	20°527'06		direct	14746 Jul 03 07:22	4°956'56	
desc. node	14745 Jul 24 21:30	22° © 16'43		desc. node	14746 Jul 11 18:48	9° © 26'53	
morning max el	14745 Jul 30 14:46	27° © 04'42	24°01'23	morning max el	14746 Jul 13 02:42	10° © 43'55	22°32'13
C	14745 Aug 02 08:11	$0^{\circ}\Omega$		Ü	14746 Jul 28 08:33	$0^{\circ}\Omega$	
	14745 Aug 24 03:11	0° mp		morning set	14746 Aug 15 18:02	28° Ω 03'54	
morning set	14745 Sep 03 21:57	17° m) 34'46			14746 Aug 16 22:26	0° m)	
max. Earth dist.	14745 Sep 07 15:14	24° mp 03'49	1.38451 AU	max. Earth dist.	14746 Aug 20 15:31	-	1.40816 AU
max. Earth dist.	14745 Sep 07 13:14 14745 Sep 10 22:17	0° ت	1.50451710	max. Earth dist.	14740 Aug 20 13.31	0 110 10 11	1.40010710
	14/43 Sep 10 22.17	o –		superior conj	14746 Aug 28 11:49	19° m 51'13	1003118
superior coni	14745 Sep 15 01:17	7° ≏ 41'39	002727	1 3	•	20° m) 13'16	
superior conj				minimum elong	14746 Aug 28 16:43		1 02 49
minimum elong	14745 Sep 15 03:12	7° £ 50'49	0-2704		14746 Sep 03 00:43	0∘ ʊ	
asc. node	14745 Sep 18 02:25	13° △ 33'05		asc. node	14746 Sep 04 22:58	3° ≏ 36′20	
evening rise	14745 Sep 23 22:15	24° Ω 59'53		evening rise	14746 Sep 07 13:56	8° △ 32'41	
	14745 Sep 26 11:37	0° M			14746 Sep 20 00:57	0° M	
evening max el	14745 Oct 10 07:23	21°M47'09	18°59'46	evening max el	14746 Sep 23 12:11	4° ™ 07'41	18°21'34
retrograde	14745 Oct 19 02:48	26°M12'56		retrograde	14746 Oct 01 01:48	7° M 58′20	
evening set	14745 Oct 20 23:48	26° ™ 01'41		evening set	14746 Oct 03 02:50	7° M 42'13	
desc. node	14745 Oct 20 17:43	26° ™ 04'29		desc. node	14746 Oct 07 15:11	5° M 28′02	
inferior conj	14745 Oct 29 08:18	21°M45'33	-2°43'32	inferior conj	14746 Oct 10 17:48	3° M ₊04'58	-0°59'28
minimum elong	14745 Oct 29 01:27	21°M57'26	2°40'10	minimum elong	14746 Oct 10 15:33	3° ™ 09'34	0°58'05
min. Earth dist.	14745 Nov 01 05:26	19° M 45'48	0.56346 AU	min. Earth dist.	14746 Oct 14 00:08	0°M26'23	0.58312 AU
morning rise	14745 Nov 06 00:18	17° ™ 02'13			14746 Oct 14 13:56	30° ₽ Ω	
direct	14745 Nov 11 17:19	15° M 45'41		morning rise	14746 Oct 18 00:47	27° ≏ 44'24	
morning max el	14745 Nov 25 20:34	23°ML00'13	26°03'45	direct	14746 Oct 24 07:36	26° ₽ 01'04	
	14745 Dec 02 03:00	0° ∡ ¹			14746 Nov 03 09:30	0° M	
asc. node	14745 Dec 15 03:29	20° ∡ 12'27		morning max el	14746 Nov 07 14:57	3°M38'12	27°17'59
	14745 Dec 20 05:04	0°ಕ			14746 Nov 26 19:51	0° ⊼ ¹	
morning set	14745 Dec 23 23:57	7° る 55'55		asc. node	14746 Dec 02 00:28	9° х 29'47	
morning sec	117.10 200 25 25.07	, 30000		morning set	14746 Dec 08 08:28	22° × ² 22'01	
superior conj	14745 Dec 30 18:04	22° る 50'05	1°37'58	morning sec	14746 Dec 11 20:43	0°පි	
minimum elong	14745 Dec 30 18:03	22° る 49'56			14/40 Dec 11 20.43	٥ ن	
max. Earth dist.	14745 Dec 30 18:03			superior conj	14746 Dec 15 05:36	7° る 30'42	102/152
max. Earth dist.			1.31313 AU	minimum elong		7°る3042 7°る24'52	
	14746 Jan 02 23:54	0° ≈ 8° ≈ 07'17		2	14746 Dec 15 04:33		1.31113 AU
evening rise	14746 Jan 06 18:49			max. Earth dist.	14746 Dec 15 03:47		1.31113 AU
desc. node	14746 Jan 16 16:30	27°≈17'10		evening rise	14746 Dec 22 00:09	22° る 26'54	
	14746 Jan 18 05:54	0°) {			14746 Dec 25 15:08	0° ≈	
evening max el	14746 Feb 07 19:54	27°) 55′01	27°27'57	desc. node	14747 Jan 03 13:17	16° ≈ 34'06	
_	14746 Feb 10 03:52	0°Υ			14747 Jan 12 10:43	0° ∀	
retrograde	14746 Feb 21 18:51	5° Y 16'15		evening max el	14747 Jan 20 22:35	9°) 45′01	26°48'12
evening set	14746 Feb 28 15:07	3° Y ′06′01		retrograde	14747 Feb 03 22:10	16° ¥ 56'33	
min. Earth dist.	14746 Mar 04 09:51	0° Y 13'49	0.61427 AU	evening set	14747 Feb 10 12:11	15° ∺ 07'50	
	14746 Mar 04 16:12	30°Ŗ ℋ		min. Earth dist.	14747 Feb 14 12:29	12° ∺ 29'20	0.59214 AU
inferior conj	14746 Mar 07 12:11	27°) €26'35	-1°47'14	inferior conj	14747 Feb 17 17:12	9°) 59′03	-3°13'16
minimum elong	14746 Mar 07 16:00	27° 升 17′57	1°45'32	minimum elong	14747 Feb 18 00:22	9°) 44'59	3°10'14
asc. node	14746 Mar 13 00:49	23° ¥ 13′23		morning rise	14747 Feb 25 15:51	5° ∺ 21′26	
morning rise	14746 Mar 14 19:57	22°) €28'03		direct	14747 Feb 27 16:01	5°) €06'44	
direct	14746 Mar 16 23:46	22°) €07'58		asc. node	14747 Feb 27 22:17	5°) €06'59	
morning max el	14746 Mar 23 21:33	25°) (36′42	17°50'44	morning max el	14747 Mar 07 10:00	8° 升 57'12	18°13'38
-	14746 Mar 27 14:32	0° Υ		-	14747 Mar 21 00:53	0° Υ	
morning set	14746 Apr 08 13:53	19° Y 58'36		morning set	14747 Mar 23 01:51	3° Υ 49'43	
	14746 Apr 14 04:32	0°8		0 *-*			
desc. node	14746 Apr 14 18:41	1° 8 02'24		superior conj	14747 Apr 01 15:58	21° Y ′38'33	-0°00'16
acce. noue	2.7.071p1 17 10.71	. 00224		minimum elong	14747 Apr 01 15:56	21° Υ 38'21	0°00'31
superior conj	14746 Apr 19 13:55	9° 8 22'37	-0°37'47	behind sun begin	14747 Apr 01 13:30	21 γ 36 21 21° Υ '04'32	0 00 51
minimum elong	14746 Apr 19 10:25	9° 8 07'42		behind sun end	14747 Apr 01 08:20 14747 Apr 01 23:25	21° 10432 22° $12'04$	
max. Earth dist.	14746 Apr 19 10.23	_	1.43363 AU	desc. node	14747 Apr 01 25.25 14747 Apr 01 15:12	22 1 12 04 21° Y 35'05	
max. Earm UISt.	-		1.43303 AU	uese. Hour	•		
ovonina -i	14746 May 02 03:41	0°Ⅱ 2°Ⅲ12/20		may Earth J'	14747 Apr 06 09:22	0°8 1°856'11	1 //1277 411
evening rise	14746 May 03 13:27	2° Ⅱ 12'30		max. Earth dist.	14747 Apr 09 06:33	4° 8 56'11	1.41377 AU

	14747 4 14 00.40	120 40140			14740 Mar. 20, 17.46	۰.۰	
evening rise	14747 Apr 14 00:48	12° 8 49'40 0° Ⅱ			14748 Mar 28 17:46	0° Ⅱ	
	14747 Apr 25 01:21				14748 Apr 17 19:12		24922122
	14747 May 17 22:00	0°©	22002127	evening max el	14748 Apr 29 12:01	13° Ⅱ 54'05	24°23'23
evening max el	14747 May 17 22:11	0°900'27	23°02'27	retrograde	14748 May 10 22:49	20° Ⅲ 36′24	
asc. node	14747 May 26 19:08	5° © 55'25		asc. node	14748 May 12 16:22	20° Ⅲ 23'22	
retrograde	14747 May 28 05:41	6° © 04'38		evening set	14748 May 16 11:18	18° Ⅱ 16′20	
evening set	14747 Jun 02 06:40	3° © 56'45		min. Earth dist.	14748 May 21 00:50	13° Ⅱ 01'46	0.68575 AU
	14747 Jun 05 19:18	30° Ŗ Ⅱ		inferior conj	14748 May 21 23:11	11° Ⅱ 46'32	2°29'21
min. Earth dist.	14747 Jun 07 04:56	28° Ⅱ 05'35	0.68999 AU	minimum elong	14748 May 21 21:09	11° Ⅱ 53′25	2°27'56
inferior conj	14747 Jun 07 14:35	27° Ⅱ 32'10	2°53'24	morning rise	14748 May 27 07:07	5° Ⅱ 46'16	
minimum elong	14747 Jun 07 13:03	27° Ⅱ 37′28	2°52'09	direct	14748 May 31 04:49	4° Ⅱ 19'10	
morning rise	14747 Jun 12 19:22	21° Ⅲ 23′28		morning max el	14748 Jun 07 17:53	8° Ⅲ 32′03	19°55'58
direct	14747 Jun 17 05:07	19° Ⅲ 36′09		desc. node	14748 Jun 14 13:02	16° Ⅲ 36′08	
morning max el	14747 Jun 25 18:57	24° Ⅲ 32′27	21°08'26		14748 Jun 23 22:55	0°99	
desc. node	14747 Jun 28 15:58	27° Ⅱ 38'46		morning set	14748 Jul 04 18:02	16°919'36	
	14747 Jun 30 15:15	0°ಅ		•	14748 Jul 13 13:01	$0^{\circ}\Omega$	
	14747 Jul 21 17:19	$0^{\circ}\Omega$		max. Earth dist.	14748 Jul 15 09:06	2° Ω 54'18	1.44611 AU
morning set	14747 Jul 26 14:01	7° Ω 31'10					
max. Earth dist.	14747 Aug 02 21:09	19° Ω 09'24	1.42947 AU	superior conj	14748 Jul 20 15:29	11° Ω 20'38	-2°03'15
max. Earth dist.	14747 Aug 09 09:59	0° m)	1.12) 17 710	minimum elong	14748 Jul 20 21:57	11° Ω 46'53	
	14/4/ Mug 07 07.57	∀ 11 / y		minimum clong	14748 Jul 31 21:21	0° m)	2 03 41
superior conj	14747 Aug 10 01:25	1° mp 05'28	1027110	evening rise	14748 Aug 03 00:27	3° Mp 36'59	
minimum elong	•			•	_		
U	14747 Aug 10 08:43	1° My 36'31	1°37'03	asc. node	14748 Aug 08 16:11	13° m) 12'51	
evening rise	14747 Aug 21 16:21	21°M, 29'12			14748 Aug 20 04:40	0° ♂	10005101
asc. node	14747 Aug 22 19:32	23° m/30'59		evening max el	14748 Aug 20 14:20	0° ≏ 24'26	18°05'01
	14747 Aug 26 11:03	0∘ ⊽		retrograde	14748 Aug 26 23:44	3° ≏ 44'46	
evening max el	14747 Sep 06 23:48	17° ≙ 03'15	18°03'47	evening set	14748 Aug 29 16:28	3° ≏ 07'24	
retrograde	14747 Sep 13 18:12	20° £ 31'53			14748 Sep 02 21:25	30°₽, MD	
evening set	14747 Sep 16 02:31	20° ≏ 06'54		inferior conj	14748 Sep 04 23:09	27° m 51'53	1°34'58
inferior conj	14747 Sep 22 23:58	15° ≏ 09'29	0°28'18	minimum elong	14748 Sep 05 01:23	27° m 45'52	1°34'05
minimum elong	14747 Sep 23 00:51	15° ≏ 07'23	0°28'06	min. Earth dist.	14748 Sep 07 17:28	24° m 55'25	0.62842 AU
desc. node	14747 Sep 24 12:41	13° ≙ 42'17		desc. node	14748 Sep 10 10:12	22° m 23'48	
min. Earth dist.	14747 Sep 26 03:57	12° ≙ 11′20	0.60572 AU	morning rise	14748 Sep 11 08:07	21° m 40'53	
morning rise	14747 Sep 29 20:05	9° ₽ 18'31		direct	14748 Sep 18 00:17	19° m 13'16	
direct	14747 Oct 06 10:42	7° ≙ 09'49		morning max el	14748 Oct 02 00:46	27° m 13'36	27°53'10
morning max el	14747 Oct 20 17:05	15° ≏ 03'14	27°55'05		14748 Oct 04 15:53	0∘ 亚	
	14747 Nov 01 20:50	0° M .			14748 Oct 25 13:47	0° M .	
asc. node	14747 Nov 18 21:20	29°ML07'55		asc. node	14748 Nov 04 18:08	19° M 00'45	
	14747 Nov 19 07:49	0° ∡ ¹		morning set	14748 Nov 05 09:51	20°M20'07	
morning set	14747 Nov 22 12:30	6° ∡ ³31'48		. 8	14748 Nov 10 00:55	0° ∡ ⊓	
max. Earth dist.	14747 Nov 28 10:55	19° ∡ ¹21'25	1.31245 AU	max. Earth dist.	14748 Nov 10 13:25		1.31931 AU
superior conj	14747 Nov 29 16:34	22° ∡ ¹06'10	1°25'53	superior conj	14748 Nov 13 01:05	6° ∡ "31'15	1°11'01
minimum elong	14747 Nov 29 14:43	21° x 55'53	1°26'42	minimum elong	14748 Nov 12 22:48	6° × 18'46	1°11'35
minimum clong	14747 Dec 03 05:40	0° 궁	1 20 42	evening rise	14748 Nov 19 19:59	21°×723'59	1 11 55
evening rise	14747 Dec 05 05:40	6° る 53'57		evening rise	14748 Nov 23 22:16	0°る	
evening rise	14747 Dec 00 09:10 14747 Dec 18 05:37	0°≈		desc. node	14748 Nov 23 22.10 14748 Dec 07 07:13	22°る55'20	
JJ.				desc. node			
desc. node	14747 Dec 21 10:12	5°≈11'46	25025120		14748 Dec 13 05:43	0° ≈	22050122
evening max el	14748 Jan 02 17:02	20°≈42'10	25°35'30	evening max el	14748 Dec 14 04:22	0°≈55'56	23°59'23
retrograde	14748 Jan 16 14:36	27°≈42'25		retrograde	14748 Dec 27 17:50	7°≈40'10	
evening set	14748 Jan 22 13:06	26°≈21'21		evening set	14749 Jan 01 14:42	6°≈48'34	
min. Earth dist.	14748 Jan 27 05:41	23° ≈ 41'59	0.57138 AU	min. Earth dist.	14749 Jan 07 15:47	3° ≈ 50′29	0.55498 AU
inferior conj	14748 Jan 30 02:26	21° ≈ 45′05		inferior conj	14749 Jan 09 14:49	2° ≈ 39'53	
minimum elong	14748 Jan 30 11:34	21° ≈ 29'33	4°34'33	minimum elong	14749 Jan 09 21:11	2° ≈ 30'19	5°39'35
morning rise					14740 T 14 11 00	2005	
direct	14748 Feb 07 12:50	17° ≈ 29′20			14749 Jan 14 11:08	30°₽₹	
	14748 Feb 07 12:50 14748 Feb 09 14:35	17°≈29′20 17°≈16′19		morning rise	14749 Jan 14 11:08 14749 Jan 18 05:25	30 ko 28° る 42'52	
asc. node				morning rise direct		• -	
asc. node morning max el	14748 Feb 09 14:35	17° ≈ 16′19	18°57'32	•	14749 Jan 18 05:25	28° る 42'52	
	14748 Feb 09 14:35 14748 Feb 14 19:43	17°≈16'19 18°≈44'24	18°57'32	•	14749 Jan 18 05:25 14749 Jan 20 17:39	28° ප්42'52 28° ප්26'50	20°04'18
	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05	17°≈16'19 18°≈44'24 21°≈39'19	18°57'32	direct	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45	28°♂42'52 28°♂26'50 0°≈	20°04'18
morning max el	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39	17°≈16'19 18°≈44'24 21°≈39'19 0°¥	18°57'32	direct morning max el	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36	28°る42'52 28°る26'50 0°≈ 3°≈30'38	20°04'18
morning max el	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39 14748 Mar 06 00:24	17°≈16'19 18°≈44'24 21°≈39'19 0°₩ 18°₩08'24	18°57'32	direct morning max el	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36 14749 Jan 31 17:07	28°♂42'52 28°♂26'50 0°≈ 3°≈30'38 3°≈59'05	20°04'18
morning max el	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39 14748 Mar 06 00:24	17°≈16'19 18°≈44'24 21°≈39'19 0°₩ 18°₩08'24	18°57'32 0°32'18	morning max el asc. node	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36 14749 Jan 31 17:07 14749 Feb 16 21:38	28°♂42'52 28°♂26'50 0°≈ 3°≈30'38 3°≈59'05 0°¥	20°04'18
morning max el morning set superior conj	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39 14748 Mar 06 00:24 14748 Mar 12 01:23	17°≈16'19 18°≈44'24 21°≈39'19 0° H 18° H 08'24 0° Y		morning max el asc. node morning set	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36 14749 Jan 31 17:07 14749 Feb 16 21:38	28°♂42'52 28°♂26'50 0°≈ 3°≈30'38 3°≈59'05 0°¥	20°04'18 0°58'27
morning max el morning set	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39 14748 Mar 06 00:24 14748 Mar 12 01:23 14748 Mar 14 12:41 14748 Mar 14 14:38	17°≈16'19 18°≈44'24 21°≈39'19 0°¥ 18°¥08'24 0°Y 4°Y'45'03 4°Y'54'22	0°32'18	morning max el asc. node morning set superior conj	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36 14749 Jan 31 17:07 14749 Feb 16 21:38 14749 Feb 18 05:51	28°♂42'52 28°♂26'50 0°≈ 3°≈30'38 3°≈59'05 0° ₩ 2°₩43'20	
morning max el morning set superior conj minimum elong desc. node	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39 14748 Mar 06 00:24 14748 Mar 12 01:23 14748 Mar 14 12:41 14748 Mar 14 14:38 14748 Mar 18 11:44	17°≈16'19 18°≈44'24 21°≈39'19 0° € 18° € 408'24 0° ♀ 4° ♀ 45'03 4° ♀ 54'22 12° ♀ 09'22	0°32'18 0°32'00	morning max el asc. node morning set	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36 14749 Jan 31 17:07 14749 Feb 16 21:38 14749 Feb 18 05:51 14749 Feb 25 23:27 14749 Feb 26 02:05	28°♂42'52 28°♂26'50 0°≈ 3°≈30'38 3°≈59'05 0°¥ 2°¥43'20 18°¥28'38 18°¥41'49	0°58'27
morning max el morning set superior conj minimum elong	14748 Feb 09 14:35 14748 Feb 14 19:43 14748 Feb 18 14:05 14748 Feb 25 01:39 14748 Mar 06 00:24 14748 Mar 12 01:23 14748 Mar 14 12:41 14748 Mar 14 14:38	17°≈16'19 18°≈44'24 21°≈39'19 0°¥ 18°¥08'24 0°Y 4°Y'45'03 4°Y'54'22	0°32'18	morning max el asc. node morning set superior conj	14749 Jan 18 05:25 14749 Jan 20 17:39 14749 Jan 26 13:45 14749 Jan 31 05:36 14749 Jan 31 17:07 14749 Feb 16 21:38 14749 Feb 18 05:51	28°♂42'52 28°♂26'50 0°≈ 3°≈30'38 3°≈59'05 0°升 2°升43'20	0°58'27

desc. node	14740 Mar 05 00:15	2° Ƴ 40'59		avanina risa	14750 Eab. 19 10:29	19°) (48'39	
evening rise	14749 Mar 05 08:15 14749 Mar 07 13:55	6° Υ 45'53		evening rise desc. node	14750 Feb 18 10:38 14750 Feb 20 04:49	19 X 48 39 23° X 06'18	
evening rise	14749 Mar 21 14:11	0° 8		desc. node	14750 Feb 20 04.49 14750 Feb 24 00:31	23 χ0618 0° Υ	
evening max el	14749 Mai 21 14.11 14749 Apr 12 01:37	27° 8 47'21	25020120		14750 Mar 15 14:37	0°8	
evening max er	14749 Apr 12 01:37	27 3 4721 0° Ⅱ	23 36 29	evening max el	14750 Mar 25 15:28	11° 8 33'55	26°40'12
retrograde	14749 Apr 24 11:25	0 П 4°П56'43		retrograde	14750 Apr 07 18:33	18° 8 58'28	20 40 12
asc. node	14749 Apr 29 13:41	3° I 09'57		evening set	14750 Apr 14 04:15	16° 8 26'19	
evening set	14749 Apr 29 13.41 14749 Apr 30 11:06	2° П 28'13		asc. node	14750 Apr 16 11:02	14° 8 18'57	
evening set	14749 May 02 22:27	30°R 8		min. Earth dist.	14750 Apr 18 04:58	12° 8 22'31	0.66385 AU
min. Earth dist.	14749 May 04 17:34	27° 8 49'42	0.67696 AU	inferior conj	14750 Apr 20 04:42	10° 8 00'42	1°08'21
inferior conj	14749 May 06 04:37	25° 8 57'40	1°54'34	minimum elong	14750 Apr 20 03:05	10° 8 05'32	1°07'12
minimum elong	14749 May 06 02:29	26° 8 04'31	1°53'09	morning rise	14750 Apr 26 03:02	4° 8 21'48	1 0/12
morning rise	14749 May 11 18:23	20° 8 07'12	1 33 07	direct	14750 Apr 29 03:13	3° 8 31'32	
direct	14749 May 15 04:50	18° 8 59'32		morning max el	14750 May 05 12:47	6° 8 53'48	18°17'08
morning max el	14749 May 22 00:10	22° 8 40'38	18°58'19	desc. node	14750 May 19 06:50	26° 8 00'28	10 17 00
morning max er	14749 May 28 02:58	0°II	10 30 17	dese. Hode	14750 May 21 19:13	0°Ⅱ	
desc. node	14749 Jun 01 09:59	6° I 106'17		morning set	14750 May 25 06:04	5° Ⅱ 30'09	
greatest brilliancy	14749 Jun 04 07:00	10° Ⅱ 23'35	-0.7m	morning sec	11730 May 25 00.01	3 23007	
morning set	14749 Jun 14 01:10	25° I 22'03	0.7111	superior conj	14750 Jun 09 17:00	29° Ⅱ 53'40	-2°04'29
morning sec	14749 Jun 17 00:56	0°95		minimum elong	14750 Jun 09 10:08	29° II 26'51	2°05'07
max. Earth dist.	14749 Jun 28 02:24	17°912'56	1.45634 AU	minimum crong	14750 Jun 09 18:37	0°95	2 03 07
max. Earth dist.	11719 Juli 20 02.21	17 - 1230	1.13031710	max. Earth dist.	14750 Jun 10 22:38	1°9549'20	1.45922 AU
superior conj	14749 Jun 30 08:41	20°545'46	-2°13'51	evening rise	14750 Jun 25 17:24	24°951'29	1.43)22 110
minimum elong	14749 Jun 30 09:07		2°14'50	evening rise	14750 Jun 29 00:32	0°Ω	
minimum clong	14749 Jul 06 05:01	0°Ω	2 1430	greatest brilliancy	14750 Jul 06 04:58	11° Ω 06'26	-0.8m
evening rise	14749 Jul 15 09:13	14°Ω44'23		asc. node	14750 Jul 13 09:36	21°Ω34'16	0.0111
evening rise	14749 Jul 24 20:37	0°m		evening max el	14750 Jul 18 14:58	27°Ω48'31	19°00'50
asc. node	14749 Jul 26 12:52	2° Mp 36'15		evening max er	14750 Jul 21 04:45	0°m)	17 00 30
evening max el	14749 Aug 04 04:20	14° M) 02'07	18°24'20	retrograde	14750 Jul 25 10:04	1° m ₀ 32'50	
retrograde	14749 Aug 10 14:12	17° m) 27'46	10 2120	evening set	14750 Jul 28 20:55	0° m ₂ 23'51	
evening set	14749 Aug 13 15:47	16° Mp 35'24		evening set	14750 Jul 29 10:18	30°RΩ	
inferior conj	14749 Aug 19 11:16	11° Mp 03'47	2°21'44	inferior conj	14750 Aug 03 08:44	24° Ω 37'47	2°51'31
minimum elong	14749 Aug 19 13:36	10° Mp 56'51	2°20'45	minimum elong	14750 Aug 03 10:28	24° Ω 32'16	2°50'35
min. Earth dist.	14749 Aug 21 16:20	8° Mp 27'14	0.64897 AU	min. Earth dist.	14750 Aug 04 23:28	22°Ω34'07	0.66605 AU
morning rise	14749 Aug 25 10:06	4° Mp 42'04	0.040)//110	morning rise	14750 Aug 08 23:17	18°Ω12'22	0.00003710
desc. node	14749 Aug 28 07:42	2° m ₂ 51'59		direct	14750 Aug 15 03:22	15° Ω 34'26	
direct	14749 Aug 31 22:17	2° My 04'42		desc. node	14750 Aug 15 05:11	15° Ω 34'27	
morning max el	14749 Sep 14 11:22	10° m) 00'15	27°16'43	morning max el	14750 Aug 27 22:40	23° Ω 11'32	26°13'16
morning max or	14749 Sep 30 05:21	0∘ ⊽	27 10 15	morning max er	14750 Sep 02 23:43	0° m	20 13 10
	14749 Oct 18 00:01	0° ™			14750 Sep 23 13:18	0∘ ⊽	
morning set	14749 Oct 19 21:52	3°M40'51		morning set	14750 Oct 02 21:13	16° ≏ 25'28	
asc. node	14749 Oct 22 14:50	9°ML03'15		max. Earth dist.	14750 Oct 06 16:47	23° ₽ 41'12	1.34926 AU
max. Earth dist.	14749 Oct 24 07:58	12°M32'48	1.33170 AU	asc. node	14750 Oct 09 11:27	29° ₽ 10'22	1.5 1,520 110
					14750 Oct 09 21:20	0° M	
superior conj	14749 Oct 28 05:00	20°M40'27	0°50'18				
minimum elong	14749 Oct 28 02:50	20°M28'54	0°50'38	superior conj	14750 Oct 12 01:42	4°M26'06	0°23'54
	14749 Nov 01 13:05	0° ∡ 7		minimum elong	14750 Oct 12 00:24	4° ™ 19'24	0°24'07
evening rise	14749 Nov 04 06:46	5° ₹ 752'32		evening rise	14750 Oct 19 15:28	20° ™ 13'27	
Ü	14749 Nov 17 01:02	ರ°0		S	14750 Oct 24 11:10	0° ∡ ¹	
desc. node	14749 Nov 24 04:20	9° る 25'37		evening max el	14750 Nov 07 10:31	21° ∡ 14'58	20°44'12
evening max el	14749 Nov 25 15:04	10°る54'49	22°16'40	desc. node	14750 Nov 11 01:34	24° ∡ 17'14	
retrograde	14749 Dec 08 08:32	17° る 12'56		retrograde	14750 Nov 18 18:53	26° ₹ '53'31	
evening set	14749 Dec 11 21:26	16° ප් 45'22		evening set	14750 Nov 21 04:45	26° ₹ 39'23	
inferior conj	14749 Dec 20 10:50	12° る 51'43	-5°58'41	inferior conj	14750 Nov 30 02:06	22° ∡ ¹45'43	-5°15'28
minimum elong	14749 Dec 20 08:45	12° る 54'38		minimum elong	14750 Nov 29 16:51	22° ∡ ′59′01	5°12'31
min. Earth dist.	14749 Dec 19 21:53	13° る 09'52	0.54580 AU	min. Earth dist.	14750 Dec 01 03:34	22° ₹ '09'08	0.54560 AU
morning rise	14749 Dec 28 21:07	9° ට 04'30		morning rise	14750 Dec 08 04:58	18° ∡ ′50′28	
direct	14750 Jan 01 05:38	8° ප 39'19		direct	14750 Dec 12 13:20	18° ∡ '09'57	
morning max el	14750 Jan 13 06:15	14° පි 26'05	21°33'43	morning max el	14750 Dec 25 18:59	24° ∡ ³36′18	23°19'50
asc. node	14750 Jan 18 14:26	20° ප 34'48		- C	14750 Dec 30 16:41	8°0	
	14750 Jan 24 16:38	0° ≈		asc. node	14751 Jan 05 11:39	8° ප 13'15	
morning set	14750 Feb 02 15:30	17° ≈ 26'45			14751 Jan 17 02:18	0° ≈	
Č	14750 Feb 08 14:07	0° ∀		morning set	14751 Jan 18 03:08	2°≈11'41	
				Č			
superior conj	14750 Feb 09 20:26	2°) 38′47	1°17'51	superior conj	14751 Jan 25 00:28	17° ≈ 06′10	1°30'37
minimum elong	14750 Feb 09 22:50	2° ¥ 51'17	1°18'07	minimum elong	14751 Jan 25 02:06	17° ≈ 14'54	1°31'15
max. Earth dist.	14750 Feb 14 07:11		1.34853 AU	max. Earth dist.	14751 Jan 28 01:41	23° ≈ 36′25	1.33183 AU

-	_		_				
	14751 Jan 31 03:53	0°) €			14751 Dec 01 08:20	0° ∡ ¹	
evening rise	14751 Feb 01 20:07	3°) €21'54		morning max el	14751 Dec 07 04:15	4° ∡ ³31'45	25°08'03
desc. node	14751 Feb 07 01:24	13°) €20'27		asc. node	14751 Dec 23 08:47	26° х ⁴39'19	
	14751 Feb 16 20:17	$0^{\circ}\mathbf{\Upsilon}$			14751 Dec 25 05:24	ರ°0	
evening max el	14751 Mar 08 04:46	25° Y 03'14	27°21'18	morning set	14752 Jan 02 14:55	16° る 53'04	
	14751 Mar 14 07:34	9° 8			14752 Jan 08 14:17	0° ≈	
retrograde	14751 Mar 21 19:27	2° 8 32'59					
evening set	14751 Mar 28 12:41	0° 8 03'17		superior conj	14752 Jan 09 09:04	1° ≈ 43'43	1°37'03
	14751 Mar 28 14:26	30° ₹Ƴ		minimum elong	14752 Jan 09 09:39	1° ≈ 47′00	1°37'57
min. Earth dist.	14751 Apr 01 08:59	26° Ƴ 31'34	0.64681 AU	max. Earth dist.	14752 Jan 11 03:18	5° ≈ 35'46	1.31974 AU
asc. node	14751 Apr 03 08:26	24° Y 23′23		evening rise	14752 Jan 16 15:20	17° ≈ 18′21	
inferior conj	14751 Apr 03 20:54	23° Y 49′22	0°09'53		14752 Jan 23 02:44	0° ∀	
minimum elong	14751 Apr 03 20:37	23° Y 50'08	0°09'28	desc. node	14752 Jan 24 22:03	3° ¥ 18′11	
transit middle	14751 Apr 03 20:37	23° Y 50'08	0°09'28		14752 Feb 11 09:20	0° Υ	
transit begin	14751 Apr 03 18:09	23° Y 56'52		evening max el	14752 Feb 18 15:50	8° Y ′03′23	27°34'50
transit end	14751 Apr 03 23:06	23° Y 43'25		retrograde	14752 Mar 03 13:14	15° Y 30'13	
morning rise	14751 Apr 10 06:31	18° Y 24'15		evening set	14752 Mar 10 09:53	13° Y 10′28	
direct	14751 Apr 12 21:30	17° Y 48'32	15050100	min. Earth dist.	14752 Mar 14 04:03		0.62668 AU
morning max el	14751 Apr 19 05:26	21° Υ 04'30	17°53'03	inferior conj	14752 Mar 17 02:14	7°Υ15'55	
	14751 Apr 26 03:58	0° 8		minimum elong	14752 Mar 17 04:17	7°Υ10'56	1°00'20
desc. node	14751 May 06 03:35	16° 8 12'02		asc. node	14752 Mar 20 05:54	4° Υ 24'01	
morning set	14751 May 06 14:58	16° 8 59'23		morning rise	14752 Mar 24 01:30	2°Υ07'02	
	14751 May 14 12:12	Π $^{\circ}0$		direct	14752 Mar 26 08:41	1° Υ 42'25 5° Υ 03'34	17046122
	14751 M 20 00-54	9° Ⅱ 30'56	1927/22	morning max el	14752 Apr 01 23:09	29° Υ 37'49	17°46'22
superior conj	14751 May 20 09:54			morning set	14752 Apr 18 00:23		
minimum elong	14751 May 20 01:06	8° Ⅱ 55'52	1.45455 AU	JJ.	14752 Apr 18 05:28	0°8	
max. Earth dist.	14751 May 24 18:48	16°Щ2606	1.45455 AU	desc. node	14752 Apr 22 00:14	6° 8 35'06	
evening rise	14751 Jun 02 12:12 14751 Jun 05 07:56	4° 9 20'00		superior conj	14752 Apr 29 23:31	20° 8 07'06	1900/22
greatest brilliancy	14751 Jun 20 00:07	4 \$2000 26°\$22'30	-0.6m	minimum elong	14752 Apr 29 17:41	19° 8 42'50	
greatest offinancy	14751 Jun 22 12:55	20 3 22 30	-0.0111	minimum clong	14752 May 06 00:45	0°Ⅱ	1 00 10
asc. node	14751 Jun 30 06:26	9° Ω 58'35		max. Earth dist.	14752 May 06 00.45	0° П 45'24	1.44293 AU
evening max el	14751 Jul 01 20:23	11° Ω 38'59	19°53'19	evening rise	14752 May 14 19:43	13° Ⅱ 49'04	1.442)3 AU
retrograde	14751 Jul 09 08:37	15°Ω54'02	17 33 17	evening rise	14752 May 25 13:21	0°95	
evening set	14751 Jul 13 05:15	14° Ω 27'52		evening max el	14752 Jun 13 19:49	25° © 30'08	20°59'39
inferior conj	14751 Jul 18 12:38	8° Ω 28'53	3°07'00	asc. node	14752 Jun 16 03:23	27°937'10	20 3737
minimum elong	14751 Jul 18 13:26	8° Ω 26'11	3°06'05		14752 Jun 20 01:31	0°N	
min. Earth dist.	14751 Jul 19 13:13	7° Ω 06'01	0.67886 AU	retrograde	14752 Jun 22 07:36	0°Ω25'10	
morning rise	14751 Jul 23 21:12	2° Ω 04'36			14752 Jun 24 11:05	30° ₹©	
C	14751 Jul 27 04:23	30° ₹ 5		evening set	14752 Jun 26 14:44	28°9541'57	
direct	14751 Jul 29 14:39	29° 5 34'06		inferior conj	14752 Jul 01 20:28	22° © 31'35	3°10'15
	14751 Aug 01 04:23	$0^{\circ}\Omega$		minimum elong	14752 Jul 01 20:16	22° © 32'16	3°09'15
desc. node	14751 Aug 02 02:36	0° Ω 20′50		min. Earth dist.	14752 Jul 02 07:27	21° © 53'27	0.68701 AU
morning max el	14751 Aug 10 09:32	6° Ω 37'55	24°52'10	morning rise	14752 Jul 07 01:32	16° © 11'48	
	14751 Aug 28 13:54	0° m		direct	14752 Jul 12 07:01	13° © 54'53	
morning set	14751 Sep 15 03:59	28° Mp 25'22		desc. node	14752 Jul 18 23:56	16° 5 °45'31	
	14751 Sep 16 01:20	0。 亚		morning max el	14752 Jul 22 20:19	20°512'18	23°23'11
max. Earth dist.	14751 Sep 18 17:27	4° £ 49'42	1.37091 AU		14752 Jul 31 04:56	$0^{\circ}\Omega$	
					14752 Aug 20 18:17	0° ™	
superior conj	14751 Sep 25 12:11	17° ≏ 41'19		morning set	14752 Aug 26 13:45	9° ™ 29'50	
minimum elong	14751 Sep 25 12:39	17° ≏ 43'39	0°07'18	max. Earth dist.	14752 Aug 30 15:21	16° Mp 25'35	1.39465 AU
behind sun begin	14751 Sep 25 06:44	17° ≏ 14'43				_	
behind sun end	14751 Sep 25 18:34	18° £ 12'39		superior conj	14752 Sep 07 08:40	0° ≏ 17'17	
asc. node	14751 Sep 26 08:02	19° ≙ 18'47		minimum elong	14752 Sep 07 11:49	0° ≏ 31'56	0°42'10
	14751 Oct 01 16:07	0°M			14752 Sep 07 04:56	0∘ ⊽	
evening rise	14751 Oct 03 19:51	4°M21'17		asc. node	14752 Sep 12 04:36	9° Ω 24'46	
	14751 Oct 18 17:07	0° ⊀ 7	10021122	evening rise	14752 Sep 16 17:08	18° ≏ 08'49	
evening max el	14751 Oct 20 20:12	2° × ⁷ 21'08	19°31'32		14752 Sep 22 23:58	0°M	10040150
desc. node	14751 Oct 28 22:52	7°× 7 04'59		evening max el	14752 Oct 02 19:10		18°40'59
retrograde	14751 Oct 30 13:18	7°×12'39		retrograde	14752 Oct 11 00:44	18°M25'45	
evening set	14751 Nov 01 10:56	7°×702'18	2045102	evening set	14752 Oct 12 22:44	18°M 13'02	
inferior conj	14751 Nov 10 03:20	2° 尽 56'54 3° 尽 11'34		desc. node inferior conj	14752 Oct 14 20:15 14752 Oct 21 00:08	17°M37'07 13°M48'28	1059105
minimum elong min. Earth dist.	14751 Nov 09 18:10		0.55461 AU	-			
ann. Earth tist.	14751 Nov 12 12:29 14751 Nov 14 22:17	30°RM	0.55401 AU	minimum elong min. Earth dist.	14752 Oct 20 19:18 14752 Oct 24 03:05		1°55'32 0.57124 AU
morning rise	14751 Nov 14 22.17 14751 Nov 17 23:25	28°M33'57		morning rise	14752 Oct 24 05:05 14752 Oct 28 12:32	8°M48'48	0.5/124 AU
direct	14751 Nov 17 25.25 14751 Nov 23 05:36	28 IIL3337 27°ML31'58		direct	14752 Nov 03 12:15	7°M20'36	
direct	17/J1 INOV 43 UJ.30	21 11631 38		uncet	17/32 INUV US 12.13	/ 11620 30	

morning max el	14752 Nov 17 17:58	14°M46'17 -	26°39'24	direct	14753 Oct 16 08:26	17° ≏ 58'00	
	14752 Nov 29 23:17	0° ∡		morning max el	14753 Oct 30 15:30	25° ≏ 42'28	27°38'38
asc. node	14752 Dec 09 05:50	15° ∡ ¹40'48			14753 Nov 03 15:44	0° M	
	14752 Dec 16 09:02	0°₹			14753 Nov 23 10:12	0° ∡ ¹	
morning set	14752 Dec 17 01:09	1° る 26'08		asc. node	14753 Nov 26 02:47	5° ₮ 07'43	
				morning set	14753 Dec 01 07:58	15° ∡ ¹45'26	
superior conj	14752 Dec 23 20:05	16° る 25'12	1°37'23	max. Earth dist.	14753 Dec 07 17:54	29° ∡ ¹47'35	1.31100 AU
minimum elong	14752 Dec 23 19:37	16° る 22'33	1°38'23		14753 Dec 07 20:08	0°ರ	
max. Earth dist.	14752 Dec 24 09:50	17° る 41'56	1.31271 AU				
	14752 Dec 30 00:25	0° ≈		superior conj	14753 Dec 08 07:35	1° る 04'04	1°31'47
evening rise	14752 Dec 30 17:39	1° ≈ 31'37		minimum elong	14753 Dec 08 06:10		1°32'43
desc. node	14752 Dec 30 17:35 14753 Jan 10 18:46	22°≈52'48		evening rise	14753 Dec 15 00:47	0 3 55007	1 32 43
desc. node				evening rise			
	14753 Jan 15 01:37	0°) {			14753 Dec 21 22:35	0° ≈	
evening max el	14753 Jan 30 22:33	20° ¥ 23′15	27°15'27	desc. node	14753 Dec 28 15:36	11° ≈ 54'27	
retrograde	14753 Feb 13 22:33	27°) 41'09			14754 Jan 11 01:19	0° ∀	
evening set	14753 Feb 20 16:53	25°) 39′23		evening max el	14754 Jan 12 22:09	1° ∺ 51'38	26°21'07
min. Earth dist.	14753 Feb 24 13:03	22°) (54'13	0.60479 AU	retrograde	14754 Jan 26 21:18	8° ¥ 57'52	
inferior conj	14753 Feb 27 17:18	20° 升 12′00	-2°23'05	evening set	14754 Feb 02 05:49	7° ¥ 20'44	
minimum elong	14753 Feb 27 22:33	20°) (00′47	2°20'46	min. Earth dist.	14754 Feb 06 11:37	4°) 43′43	0.58297 AU
morning rise	14753 Mar 07 07:31	15° ¥ 21'59		inferior conj	14754 Feb 09 14:17	2° ¥ 26′05	-3°50'12
asc. node	14753 Mar 07 03:22	15° ¥ 24'56		minimum elong	14754 Feb 09 22:37	2° ₩ 10'40	3°46'52
direct	14753 Mar 09 09:10	15°) €04'44			14754 Feb 13 02:30	30°R≈	
morning max el	14753 Mar 16 14:38	18°) 41'49	17°57'59	morning rise	14754 Feb 17 18:30	27°≈57'23	
morning max er	14753 Mar 24 19:27	0°Υ	17 3737	direct	14754 Feb 19 18:34	27°≈43'49	
morning set	14753 Mar 24 19.27 14753 Apr 01 04:22	13°Υ08'00		asc. node	14754 Feb 22 00:50	27 ≈43 49 28°≈01'57	
Č	•			asc. node			
desc. node	14753 Apr 08 20:49	27° Y 05'44			14754 Feb 25 22:12	0°) {	
	14753 Apr 10 12:10	0°8		morning max el	14754 Feb 27 23:58	1°) 47′07	18°29'34
				morning set	14754 Mar 15 21:23	27° ¥ 12'43	
superior conj	14753 Apr 11 12:58	1° 8 48'54	-0°21'27		14754 Mar 17 08:12	0° Y	
minimum elong	14753 Apr 11 11:06	1° 8 40'43	0°21'35				
max. Earth dist.	14753 Apr 19 01:18	14° 8 35'23	1.42568 AU	superior conj	14754 Mar 24 23:31	14° Ƴ 27'46	0°14'17
evening rise	14753 Apr 24 20:03	23° 8 56'49		minimum elong	14754 Mar 25 00:30	14° Y 32'20	0°13'58
	14753 Apr 28 16:48	$\Pi^{\circ}0$		behind sun begin	14754 Mar 24 21:03	14° Ƴ 16′20	
	14753 May 19 13:36	0°ಅ		behind sun end	14754 Mar 25 03:58	14° Ƴ 48'19	
evening max el	14753 May 27 14:08	9° © 22'07	22°16'02	desc. node	14754 Mar 26 17:22	17° Ƴ 39'33	
asc. node	14753 Jun 03 00:26	14°9515'23		max. Earth dist.	14754 Apr 01 10:25	27° Y '46'44	1.40450 AU
retrograde	14753 Jun 06 05:16	15°900'57		man. Bartir digt.	14754 Apr 02 17:30	0°8	1.10100110
evening set	14753 Jun 10 23:36	13° © 00'37		evening rise	14754 Apr 05 16:30	4° 8 58'30	
Č			3°02'33	evening rise	14754 Apr 03 10.30	4 O 3830	
inferior conj	14753 Jun 16 06:07						22927109
minimum elong	14753 Jun 16 05:01	6°545'39	3°01'24	evening max el	14754 May 10 05:04	23° Ⅱ 15'20	23 37 08
min. Earth dist.	14753 Jun 16 03:58	6°549'18	0.69035 AU	asc. node	14754 May 20 21:36	29° Ⅱ 35'57	
morning rise	14753 Jun 21 10:16	0°528'38		retrograde	14754 May 21 00:17	29° Ⅱ 36′00	
	14753 Jun 22 00:35	30°Ŗ Ⅱ		evening set	14754 May 26 06:14	27° Ⅲ 22'35	
direct	14753 Jun 26 03:17	28° Ⅱ 29'39		min. Earth dist.	14754 May 31 00:37	21° Ⅱ 47'09	0.68885 AU
	14753 Jun 30 16:14	0		inferior conj	14754 May 31 15:39	20° Ⅱ 55'36	2°44'28
morning max el	14753 Jul 05 09:33	3° 5 54'33	21°55'21	minimum elong	14754 May 31 13:52	21° Ⅱ 01'45	2°43'08
desc. node	14753 Jul 05 21:12	4° 5 24'06		morning rise	14754 Jun 05 21:28	14° Ⅱ 50′28	
	14753 Jul 25 06:23	$\mathfrak{O}^{\circ}\mathfrak{O}$		direct	14754 Jun 10 02:07	13° Ⅱ 11'35	
morning set	14753 Aug 06 23:14	19° Ω 31'16		morning max el	14754 Jun 18 04:24	17° Ⅱ 47'37	20°35'54
max. Earth dist.	14753 Aug 12 17:17	28° Ω 53'08	1.41772 AU	desc. node	14754 Jun 22 18:20	22° Ⅱ 57'01	
	14753 Aug 13 09:22	0° m/y			14754 Jun 28 02:49	0° ©	
	11,051148 15 07.22	v y		morning set	14754 Jul 17 10:44	28° © 37'24	
superior conj	14753 Aug 20 10:49	12° m 04'29	1018117	morning set	14754 Jul 18 08:03	0°Ω	
	=	-		may Earth dist			1 42720 AII
minimum elong	14753 Aug 20 16:56	12° m 31'19	1-1/31	max. Earth dist.	14754 Jul 26 02:15	12-8615-14	1.43730 AU
asc. node	14753 Aug 30 01:10	29° Tp 24'45				0	
	14753 Aug 30 08:49	0∘ ⊽		superior conj	14754 Aug 01 14:34	22° Ω 54'06	
evening rise	14753 Aug 31 03:43	1° ≏ 27'09		minimum elong	14754 Aug 01 22:06	23° Ω 25′26	1°49'44
evening max el	14753 Sep 16 03:27	26° £ 53′26	18°11'38		14754 Aug 05 19:50	0° m)	
	14753 Sep 20 13:26	0° M		evening rise	14754 Aug 13 23:00	14° M 04'57	
retrograde	14753 Sep 23 07:21	0°M32'36		asc. node	14754 Aug 16 21:47	19° m 14'53	
evening set	14753 Sep 25 11:26	0°M13'03			14754 Aug 23 06:06	0∘ 亚	
	14753 Sep 26 02:57	30° Ŗ Ω		evening max el	14754 Aug 30 16:48	10° ჲ 01'31	18°02'02
desc. node	14753 Oct 01 17:43	26° Ω 20'40		retrograde	14754 Sep 06 06:03	13° ≏ 24'55	
inferior conj	14753 Oct 02 18:43	25° Ω 27'06	-0°19'42	evening set	14754 Sep 08 17:57	12° ♀ 54'54	
minimum elong	14753 Oct 02 18:01	25° Ω 28'36		inferior conj	14754 Sep 15 08:39	7° ♀ 49'10	0°59'09
min. Earth dist.	14753 Oct 02 18:01 14753 Oct 06 01:19		0.59261 AU	minimum elong	14754 Sep 15 10:19	7° - 45'02	0°58'35
morning rise	14753 Oct 00 01:19	19° £ 52'48	5.57201 AU	min. Earth dist.	14754 Sep 18 09:01	4° Ω 49'38	0.61552 AU
morning 1150	17/05 Oct 07 21.14	17 -3440		mm. Latin dist.	17/37 Sep 10 03.01	- 7330	J.01332 AU

desc. node	14754 Sep 18 15:14	4° ≙ 34'56		minimum elong	14755 Aug 29 16:14	20° m 38'39	1°56'06
morning rise	14754 Sep 21 24:00	1° ≏ 48'36		min. Earth dist.	14755 Sep 01 02:41	17° m 55'32	0.63748 AU
	14754 Sep 25 14:16	30°₽,₩)		morning rise	14755 Sep 04 18:16	14° m 28'33	
direct	14754 Sep 28 15:57	29° m 31'12		desc. node	14755 Sep 05 12:45	13° m 54'50	
	14754 Oct 01 20:27	0∘ <u>v</u>		direct	14755 Sep 11 09:07	11° m)55'51	
morning max el	14754 Oct 12 20:21		27°59'00	morning max el	14755 Sep 25 05:49		27°41'33
morning max cr	14754 Oct 30 01:23	0°M	27 37 00	morning max er	14755 Oct 03 21:01	0∘ ⊽	27 4133
		24°M53'08				0 == 0°M₊	
asc. node	14754 Nov 12 23:38				14755 Oct 23 02:02		
morning set	14754 Nov 15 09:26	29° ™ 46'51		morning set	14755 Oct 30 03:09	13°M24'14	
	14754 Nov 15 11:59	0° ∡ ¹		asc. node	14755 Oct 30 20:23	14° M 50'43	
max. Earth dist.	14754 Nov 20 23:44	11° ∡ ⁴44'09	1.31474 AU	max. Earth dist.	14755 Nov 03 23:20	23°M22'12	1.32393 AU
		_					
superior conj	14754 Nov 22 17:44	15° ∡ ³35'46	1°20'19	superior conj	14755 Nov 07 00:31	29°M54'24	1°02'57
minimum elong	14754 Nov 22 15:39	15° ∡ ¹24'12	1°21'01	minimum elong	14755 Nov 06 22:12	29°M41'53	1°03'23
evening rise	14754 Nov 29 10:48	0° る 24'13			14755 Nov 07 01:33	0° ∡ ¹	
	14754 Nov 29 06:20	ರ∘ರ		evening rise	14755 Nov 13 21:48	14° ∡ ¹53'54	
	14754 Dec 15 09:33	0° ≈			14755 Nov 21 08:10	0° ろ	
desc. node	14754 Dec 15 12:33	0°≈11'10		desc. node	14755 Dec 02 09:36	17° る 26'12	
evening max el	14754 Dec 25 13:07	12° ≈ 27'44	24°56'32	evening max el	14755 Dec 06 22:45	22° ろ 29'28	23°15'17
retrograde	14755 Jan 08 07:45	19° ≈ 21'30		retrograde	14755 Dec 20 05:32	29° る 05'03	
evening set	14755 Jan 13 20:53	18°≈12'53		evening set	14755 Dec 24 13:07	28° る 24'36	
=		15°≈28'10	0.56275 ATT	min. Earth dist.		25°る12'45	0.55002 AU
min. Earth dist.	14755 Jan 19 01:04		0.56375 AU		14755 Dec 31 08:50		
inferior conj	14755 Jan 21 14:26	13°≈49'50		inferior conj	14756 Jan 01 18:45	24°る23'43	
minimum elong	14755 Jan 21 23:10		5°06'01	minimum elong	14756 Jan 01 22:00	24° る 19'01	5°54'33
morning rise	14755 Jan 30 03:46	9° ≈ 42'51		morning rise	14756 Jan 10 08:25	20° る 32'53	
direct	14755 Feb 01 08:56	9° ≈ 29'06		direct	14756 Jan 13 04:08	20° る 13'55	
asc. node	14755 Feb 08 22:15	12° ≈ 21'55		morning max el	14756 Jan 24 08:21	25° る 35'54	20°39'53
morning max el	14755 Feb 10 23:03	14° ≈ 08′09	19°23'07	asc. node	14756 Jan 26 19:35	28° る 13'10	
	14755 Feb 21 22:26	0°) €			14756 Jan 28 06:36	0° ≈	
morning set	14755 Feb 27 23:12	11° ¥ 39′20		morning set	14756 Feb 12 06:41	26°≈18'42	
. 8				3	14756 Feb 14 01:23	0°) €	
superior conj	14755 Mar 08 02:42	27°) 51'23	0°44'13				
minimum elong	14755 Mar 08 05:05	28° ¥ 02'59	0°43'58	superior conj	14756 Feb 19 18:14	11° ¥ 47'50	1°07'30
	14755 Mar 09 05:17	0°Υ		minimum elong	14756 Feb 19 20:52		1°07'33
desc. node	14755 Mar 13 13:54	8° Υ 13'05		max. Earth dist.	14756 Feb 25 00:42	22°) 16'09	1.35976 AU
max. Earth dist.	14755 Mar 14 16:52	10° Υ 16'33	1.38169 AU	desc. node	14756 Feb 28 10:26	28°) 42'48	1.33970 AU
		16° Υ 53'28	1.36109 AU			28 X 42 48 29° X 34'22	
evening rise	14755 Mar 18 09:52			evening rise	14756 Feb 28 21:36		
	14755 Mar 26 05:45	0°B			14756 Feb 29 03:10	0° Υ	
	14755 Apr 16 07:49	0°Щ			14756 Mar 18 10:50	0°8	
evening max el	14755 Apr 22 18:33	7° Ⅱ 09'03	24°56'25	evening max el	14756 Apr 04 08:04	21° 8 00'14	26°06'47
retrograde	14755 May 04 15:32	14° Ⅱ 04'05		retrograde	14756 Apr 17 02:06	28° 8 18'19	
asc. node	14755 May 07 18:51	13° Ⅲ 22′03		evening set	14756 Apr 23 06:16	25° 8 47'18	
evening set	14755 May 10 09:01	11° Ⅲ 39'38		asc. node	14756 Apr 23 16:09	25° 8 26'08	
min. Earth dist.	14755 May 14 19:18	6° Ⅱ 40′50	0.68261 AU	min. Earth dist.	14756 Apr 27 10:00	21° 8 23'56	0.67184 AU
inferior conj	14755 May 15 23:08	5° Ⅲ 09'01	2°15'56	inferior conj	14756 Apr 29 02:34	19° 8 17'53	1°36'26
minimum elong	14755 May 15 21:00	5° Ⅱ 16′06	2°14'29	minimum elong	14756 Apr 29 00:34	19° 8 24'08	1°35'05
	14755 May 20 09:40	30°R ∀		morning rise	14756 May 04 19:39	13° 8 32'17	
morning rise	14755 May 21 09:15	29° 8 13'01		direct	14756 May 08 01:31	12° 8 32'30	
direct	14755 May 25 02:03	27° 8 54'28		morning max el	14756 May 14 15:53	16° 8 04'17	18°38'47
direct		0°Ⅱ		morning max ci	•	10 О 04 17	10 30 47
	14755 May 30 03:35		10020121	4 4-	14756 May 25 06:45		
morning max el	14755 Jun 01 06:35	1° П 51'56	19°29'31	desc. node	14756 May 26 12:17	1° Ⅱ 51'34	
desc. node	14755 Jun 09 15:22	12° Ⅱ 09'42		morning set	14756 Jun 05 04:14	16° Ⅱ 51'32	
greatest brilliancy	14755 Jun 13 21:36	18° Ⅱ 16'47	-0.7m		14756 Jun 13 14:05	0	
	14755 Jun 21 17:04	0 \circ		max. Earth dist.	14756 Jun 20 11:39	10° © 45'31	1.45846 AU
morning set	14755 Jun 26 13:26	7° © 24'56					
max. Earth dist.	14755 Jul 08 17:05	26° © 17'50	1.45132 AU	superior conj	14756 Jun 21 06:25	11° © 58'46	-2°12'22
	14755 Jul 11 01:18	0 $^{\circ}$ Ω		minimum elong	14756 Jun 21 03:26	11° 5 47'07	2°13'19
					14756 Jul 02 17:40	$0^{\circ}\Omega$	
superior conj	14755 Jul 12 18:51	2° Ω 45′10	-2°10'01	evening rise	14756 Jul 06 19:53	6° Ω 30′02	
minimum elong	14755 Jul 12 23:21	3° Ω 03′07	2°10'46	greatest brilliancy	14756 Jul 14 01:12	17° Ω 58'49	-0.9m
evening rise	14755 Jul 26 21:42	25° Ω 48'32		asc. node	14756 Jul 20 15:07	28° Ω 03'48	
	14755 Jul 29 10:03	0° m)			14756 Jul 21 23:31	0° m)	
asc. node	14755 Aug 03 18:25	8° Mp 49'46		evening max el	14756 Jul 27 20:14	7° Mp 12'41	18°37'45
evening max el	14755 Aug 03 18.23	23° Mp 30'20	18°11'01	retrograde	14756 Aug 03 09:10	10° Mp 44'58	10 3/ 73
•	-		10 11 01	-	•		
retrograde	14755 Aug 20 16:00	26° Mp 51'40		evening set	14756 Aug 06 14:31	9° Mp 45'53	2027/117
evening set	14755 Aug 23 12:23	26° Mp 08'14	1057104	inferior conj	14756 Aug 12 06:21	4° Mp 08'01	2°36'16
inferior conj	14755 Aug 29 13:50	20° Mp 45'24	1°57'04	minimum elong	14756 Aug 12 08:29	4° Mp 01'27	2~35'16

min. Earth dist.	14756 Aug 14 05:26	1°Mp43'52	0.65675 AU	inferior conj	14757 Jul 27 06:54	17° Ω 50′19	2°59'40
	14756 Aug 15 17:29	30° R Ω		minimum elong	14757 Jul 27 08:15	17° Ω 45'54	2°58'44
morning rise	14756 Aug 18 01:22	27° Ω 43'43		min. Earth dist.	14757 Jul 28 15:39	16° Ω 03'02	0.67211 AU
desc. node	14756 Aug 22 10:14	25° Ω 19'50		morning rise	14757 Aug 01 18:37	11° Ω 24'57	
direct	14756 Aug 24 10:30	25° Ω 04'47		direct	14757 Aug 07 18:34	8° Ω 48'59	
	14756 Sep 03 14:13	0° ™		desc. node	14757 Aug 09 07:41	8° Ω 58'06	
morning max el	14756 Sep 06 17:03	2° Mp 55'11	26°52'21	morning max el	14757 Aug 20 04:02	16° Ω 13'42	25°40'13
	14756 Sep 27 03:53	0∘ 亚			14757 Aug 31 13:58	0° m y	
morning set	14756 Oct 12 10:12	26° ≙ 30'49			14757 Sep 20 01:23	0∘ 亚	
	14756 Oct 14 05:27	0° M .		morning set	14757 Sep 25 03:05	8° ≏ 58'18	
max. Earth dist.	14756 Oct 16 13:32	4° M ₊38′08	1.33855 AU	max. Earth dist.	14757 Sep 28 18:06	15° ≏ 42'37	1.35806 AU
asc. node	14756 Oct 16 17:03	4° ™ 55'49		asc. node	14757 Oct 03 13:40	25° ≏ 04'34	
superior conj	14756 Oct 21 01:40	13°M54'20	0°39'45	superior conj	14757 Oct 04 18:31	27° ≏ 29'01	0°11'06
minimum elong	14756 Oct 20 23:46	13° M 44'21	0°40'01	minimum elong	14757 Oct 04 17:51	27° ≏ 25'38	0°11'21
evening rise	14756 Oct 28 07:54	29° ™ 19'30		behind sun begin	14757 Oct 04 13:24	27° ≙ 03'16	
	14756 Oct 28 15:35	0° ∡ ¹		behind sun end	14757 Oct 04 22:18	27° ≏ 48'03	
	14756 Nov 15 02:59	0°₹			14757 Oct 06 00:23	0° M	
evening max el	14756 Nov 17 12:06	2° る 33'19	21°35'19	evening rise	14757 Oct 12 15:06	13°MJ36'11	
desc. node	14756 Nov 18 06:45	3° る 17'48			14757 Oct 21 02:13	0° ∡ ¹	
retrograde	14756 Nov 29 17:19	8° ප 36'17		evening max el	14757 Oct 30 13:36	13° ∡ 12'56	20°10'40
evening set	14756 Dec 02 16:53	8° ♂ 16′05		desc. node	14757 Nov 05 04:01	17° ∡ ¹20'28	
inferior conj	14756 Dec 11 10:59	4° る 24'10	-5°47'41	retrograde	14757 Nov 10 05:08	18° ∡ ³30′59	
minimum elong	14756 Dec 11 05:07	4° る 32'23	5°45'59	evening set	14757 Nov 12 08:00	18° ∡ 19'22	
min. Earth dist.	14756 Dec 11 14:41	4° る 18'59	0.54448 AU	inferior conj	14757 Nov 21 04:57	14° ∡ ¹22'23	-4°41'10
morning rise	14756 Dec 19 18:01	0° る 35'43		minimum elong	14757 Nov 20 18:51	14° ∡ ³37'24	4°37'27
direct	14756 Dec 23 12:30	0° る 04'44		min. Earth dist.	14757 Nov 22 21:31	13° ∡ ′22'00	0.54837 AU
morning max el	14757 Jan 05 03:15	6° る 09'57	22°17'34	morning rise	14757 Nov 29 04:51	10° ∡ 17'26	
asc. node	14757 Jan 12 16:53	15° る 17'48		direct	14757 Dec 03 23:14	9° ∡ ¹28'11	
	14757 Jan 21 07:15	0° ≈		morning max el	14757 Dec 17 13:12	16° ₹ '09'39	24°06'40
morning set	14757 Jan 26 17:23	11° ≈ 03'18		3	14757 Dec 28 12:43	0°ප	
5 - 5				asc. node	14757 Dec 30 14:04	3° ට 18'53	
superior conj	14757 Feb 02 18:32	26° ≈ 06'24	1°24'03	morning set	14758 Jan 11 05:19	25° ♂ 47'47	
minimum elong	14757 Feb 02 20:39	26° ≈ 17'36	1°24'29	3	14758 Jan 13 03:58	0° ≈	
minimum viong	14757 Feb 04 14:58	0° ∀	1 2 . 2 .		11,000 0011 13 03.00	0	
max. Earth dist.	14757 Feb 06 14:33	4°) €05'49	1.34082 AU	superior conj	14758 Jan 18 00:48	10° ≈ 39'21	1°34'05
evening rise	14757 Feb 11 00:08	12°) 51'25	1.5 .002 110	minimum elong	14758 Jan 18 02:01	10° ≈ 45'55	1°34'52
desc. node	14757 Feb 14 06:58	19°) (04'07		max. Earth dist.	14758 Jan 20 12:22	16° ≈ 01'29	1.32611 AU
acco. noac	14757 Feb 20 11:24	0°Υ		evening rise	14758 Jan 25 14:11	26°≈36'13	1.52011110
	14757 Mar 13 11:30	0°8		evening rise	14758 Jan 27 07:04	0° ∀	
evening max el	14757 Mar 17 21:47	4° 8 40'56	27°00'46	desc. node	14758 Feb 01 03:35	9° ₩ 12'33	
retrograde	14757 Mar 31 06:52	12° 8 09'34	27 00 10	desc. node	14758 Feb 13 19:32	0°Υ	
evening set	14757 Apr 06 19:59	9° 8 37'45		evening max el	14758 Feb 28 10:39		27°30'53
asc. node	14757 Apr 10 13:32	6° 8 01'58		retrograde	14758 Mar 14 04:47	25° Y 29'14	27 30 33
min. Earth dist.	14757 Apr 10 18:38	5° 8 47'48	0.65696 AU	evening set	14758 Mar 20 23:57	23° Y '03'12	
inferior conj	14757 Apr 12 23:37	3° 8 15'55	0°45'06	min. Earth dist.	14758 Mar 24 19:09	19° Y 43'29	0.63858 AU
minimum elong	14757 Apr 12 22:27	3° 8 19'16	0°44'13	inferior conj	14758 Mar 27 11:37	16° Y ′56'35	
minimum viong	14757 Apr 16 00:33	30°RY	015	minimum elong	14758 Mar 27 12:12	16° Y 55'04	0°18'40
morning rise	14757 Apr 19 02:25	27° Y ′42'27		asc. node	14758 Mar 28 10:58	15°Υ56'35	0 10 10
direct	14757 Apr 21 22:27	26°Y'58'52		morning rise	14758 Apr 03 02:45	11° Y 37'40	
direct	14757 Apr 27 23:11	0°8		direct	14758 Apr 05 14:15	11° Υ '07'02	
morning max el	14757 Apr 28 06:29	0° 8 17'23	18°04'47	morning max el	14758 Apr 11 23:53	14° Υ 23'54	17°47'58
desc. node	14757 May 13 09:04	21° 8 54'03	10 0447	morning max er	14758 Apr 23 00:39	0°8	17 47 50
morning set	14757 May 16 21:01	27° 8 34'23		morning set	14758 Apr 28 17:01	9° 8 35'20	
morning set	14757 May 18 08:58	0°Ⅱ		desc. node	14758 Apr 30 05:46	12° 8 11'12	
	14/3/ Way 10 00.30	υд		dese. Hode	14758 May 10 22:48	0°Ⅱ	
superior conj	14757 May 31 16:23	21° Ⅱ 14'29	-1°54'46		14/36 Way 10 22.46	ОД	
minimum elong	14757 May 31 10:23	20° I I41'07		superior conj	14758 May 11 17:02	1° Ⅱ 13'55	_1°22'23
max. Earth dist.	14757 May 31 07:33		1.45814 AU	minimum elong	14758 May 11 17:02 14758 May 11 09:08	0° П 41'54	
max. Latui Uist.	14757 Jun 05 07:41 14757 Jun 06 06:51	25°Щ22′30 0° ©	1.4J014 AU	max. Earth dist.	14758 May 17 09:08 14758 May 17 03:06		1.45046 AU
avaning rise		16°ഇ16'35			•	9°Щ34°27 25°Щ40'08	1.43040 AU
evening rise	14757 Jun 16 19:05			evening rise	14758 May 27 06:20	25°Щ40'08 0°©	
grantast builli	14757 Jun 25 17:41 14757 Jun 29 08:09	0° Ω 5° Ω 25'21	-0.7m		14758 May 30 02:31 14758 Jun 20 00:16	0ಂ ೮ ೧್ವಾ	
greatest brilliancy asc. node		5° λ (25'21' 16° Ω 49'12	-U. / III	ana nada		0°δι 4° Ω 55'52	
	14757 Jul 07 11:53	21°Ω02'06	19°21'19	asc. node evening max el	14758 Jun 24 08:46 14758 Jun 24 07:52	$4^{\circ}0.55^{\circ}52$ $4^{\circ}0.53^{\circ}39$	20.550.04
evening max el							
ratrograda	14757 Jul 11 04:53		19 21 19	•			20 20 04
retrograde evening set	14757 Jul 11 04:35 14757 Jul 18 06:23 14757 Jul 21 21:18	24° Ω 57'55 23° Ω 41'47	19 21 19	retrograde evening set	14758 Jul 02 05:15 14758 Jul 06 06:22	9° Ω 24'17 7° Ω 50'40	20 20 04

0°Щ

14762 Apr 14 15:07

14761 Apr 18 20:41

 $0^{\circ}\Pi$

	14560 4 45 01 00	00 To 407	25025155		1456234 20 14 45	1.401.41.010.6	26022100
evening max el	14762 Apr 15 01:03	0° Ⅲ 24'37	25°27'55	evening max el	14763 Mar 28 14:47	14° 8 12'26	26°32'08
retrograde	14762 Apr 27 07:36	7° Ⅱ 30'20		retrograde	14763 Apr 10 15:37	21° 8 35'35	
asc. node	14762 May 01 21:18	6° Ⅲ 03'31		evening set	14763 Apr 16 24:00	19° 8 03'28	
evening set	14762 May 03 05:44	5° Ⅱ 02'47		asc. node	14763 Apr 18 18:39	17° 8 26'04	
min. Earth dist.	14762 May 07 13:11	0° Ⅱ 19'03	0.67860 AU	min. Earth dist.	14763 Apr 21 01:25	14° 8 54'47	0.66606 AU
	14762 May 07 19:09	30° ₹ 8		inferior conj	14763 Apr 22 23:20	12° 8 36'43	1°16'10
inferior conj	14762 May 08 22:21	28° 8 32'09	2°00'35	minimum elong	14763 Apr 22 21:36	12° 8 41'59	1°14'57
minimum elong	14762 May 08 20:11	28° 8 39'07	1°59'09	morning rise	14763 Apr 28 20:14	6° ႘ 56′08	
morning rise	14762 May 14 11:04	22° 8 40'11		direct	14763 May 01 21:53	6° 8 03'29	
direct	14762 May 17 23:11	21° 8 29'41		morning max el	14763 May 08 08:24	9° 8 27'43	18°22'15
morning max el	14762 May 24 20:34	25° 8 14'26	19°05'52	desc. node	14763 May 21 14:33	27° 8 41'15	
	14762 May 29 00:58	Π° 0			14763 May 23 01:53	$\Pi^{\circ}0$	
desc. node	14762 Jun 03 17:41	7° Ⅱ 50'01		morning set	14763 May 28 12:08	8°∏35'32	
greatest brilliancy	14762 Jun 06 20:51	12° Ⅲ 27'35	-0.7m		14763 Jun 11 02:30	0°ಅ	
morning set	14762 Jun 17 11:09	28° Ⅲ 38'45					
8	14762 Jun 18 08:12	0°ಅ		superior conj	14763 Jun 13 03:45	3° © 12'15	-2°07'10
max. Earth dist.	14762 Jul 01 01:05	19° 5 944'44	1.45529 AU	minimum elong	14763 Jun 12 21:44	2°5548'49	
max. Latin dist.	11702341 01 01.03	1, 0, 1, 1,	1.1002) 110	max. Earth dist.	14763 Jun 13 21:10	4°9520'11	1.45926 AU
superior conj	14762 Jul 03 19:08	24° © 04'17	-2°13'30	evening rise	14763 Jun 29 02:09	28°905'30	1.43)20 AO
minimum elong	14762 Jul 03 19:08	24°50417 24°510'36		evening rise	14763 Jun 30 07:23	0°Ω	
minimum ciong			2 14 20	areatest brillianss		13° Ω 13'48	0.0
	14762 Jul 07 13:03	0°Ω		greatest brilliancy	14763 Jul 08 19:07		-0.8m
evening rise	14762 Jul 18 14:26	17° Ω 49'39		asc. node	14763 Jul 15 17:20	23° Ω 26'35	
	14762 Jul 26 01:57	0° m)			14763 Jul 21 01:17	0° m	
asc. node	14762 Jul 28 20:37	4° m 24'05		evening max el	14763 Jul 21 11:27	0° m/25′46	18°54'16
evening max el	14762 Aug 07 00:12	16°Mp40'17	18°20'20	retrograde	14763 Jul 28 04:43	4° Mp 06′38	
retrograde	14762 Aug 13 09:24	20° Mp 04'22		evening set	14763 Jul 31 14:06	3°m/00'16	
evening set	14762 Aug 16 09:40	19° m) 14'19			14763 Aug 03 21:01	30° R Ω	
inferior conj	14762 Aug 22 06:34	13° m 44'49	2°15'49	inferior conj	14763 Aug 06 02:51	27° Ω 16′10	2°47'59
minimum elong	14762 Aug 22 08:57	13° m 37'51	2°14'48	minimum elong	14763 Aug 06 04:42	27° Ω 10'19	2°47'01
min. Earth dist.	14762 Aug 24 13:39	11° m 04'30	0.64610 AU	min. Earth dist.	14763 Aug 07 19:43	25° Ω 06'55	0.66377 AU
morning rise	14762 Aug 28 06:48	7° m)24'11		morning rise	14763 Aug 11 18:29	20° Ω 50'46	
desc. node	14762 Aug 30 15:15	5° m 51'00		direct	14763 Aug 17 23:54	18° Ω 12'25	
direct	14762 Sep 03 19:48	4° ዀ 47'51		desc. node	14763 Aug 17 12:45	18° Ω 13'14	
morning max el	14762 Sep 17 11:00	12° m 44'45	27°24'06	morning max el	14763 Aug 30 22:26	25° Ω 53'34	26°24'02
	14762 Oct 01 07:40	0∘ ⊽			14763 Sep 03 17:10	o°mp	
	14762 Oct 19 10:31	0° M .			14763 Sep 24 20:44	0∘ ⊽	
morning set	14762 Oct 22 18:33	6° ™ 24'17		morning set	14763 Oct 05 20:01	19° ≏ 14'40	
asc. node	14762 Oct 24 22:37	10°M43'26		max. Earth dist.	14763 Oct 09 17:30	26° £ 43'05	1.34634 AU
max. Earth dist.	14762 Oct 27 07:16	15°M33'13	1.32953 AU		14763 Oct 11 09:16	0°M	
man. Darm dist.	11,02 000 27 07.10	10 110 23 13	1.52,00110	asc. node	14763 Oct 11 19:15	0°M50'01	
superior conj	14762 Oct 30 23:00	23°M16'00	0°53'49	use. Houe	11705 000 11 15.15	0 1100001	
minimum elong	14762 Oct 30 20:46	23°MJ04'04	0°54'11	superior conj	14763 Oct 14 20:56	7°M05'15	0°28'14
minimum clong	14762 Nov 03 01:56	23 11004 04 0° ∕ 7	0 3411	minimum elong	14763 Oct 14 20:36	6°M57'32	0°28'28
avanina riaa	14762 Nov 06 23:27	8° ∡ ¹24'23		2	14763 Oct 14 19.20 14763 Oct 22 08:34	22°M46'25	0 28 28
evening rise	14762 Nov 18 03:03	0°る		evening rise	14763 Oct 25 21:00	0° x ⁷	
							20056150
desc. node	14762 Nov 26 11:58	11°る43'37	22021127	evening max el	14763 Nov 10 11:37	24° ₹ 20'17	20°56'50
evening max el	14762 Nov 28 18:03	14°る05'48	22°31'37	desc. node	14763 Nov 13 09:09	26° ₹ 51'34	
retrograde	14762 Dec 11 15:18	20°る28'53			14763 Nov 20 13:25	0°る	
evening set	14762 Dec 15 09:08	19°る58'13		retrograde	14763 Nov 22 01:47	0°る05'44	
min. Earth dist.	14762 Dec 23 01:53		0.54664 AU		14763 Nov 23 14:43	30°₹ ৴	
inferior conj	14762 Dec 23 20:34	16° පි 03'09		evening set	14763 Nov 24 14:40	29° ₹ 50'22	
minimum elong	14762 Dec 23 19:55	16° る 04'03	5°58'52	inferior conj	14763 Dec 03 11:34	25° ₹ 57'29	
morning rise	14763 Jan 01 07:55	12° る 15'37		minimum elong	14763 Dec 03 02:56	26° ₹ 09'45	
direct	14763 Jan 04 12:58	11° る 52'15		min. Earth dist.	14763 Dec 04 07:29	25° ≯ 29'06	0.54497 AU
morning max el	14763 Jan 16 08:24	17° る 32'26	21°19'08	morning rise	14763 Dec 11 15:27	22° ∡ 04'40	
asc. node	14763 Jan 20 22:06	22° る 41'59		direct	14763 Dec 15 20:10	21° ₹ ¹26'53	
	14763 Jan 25 21:06	0° ≈		morning max el	14763 Dec 28 22:32	27° ∡ ⁴48'06	23°03'34
morning set	14763 Feb 05 08:06	19° ≈ 55'47			14763 Dec 31 02:24	5°0	
	14763 Feb 10 02:57	0° ∀		asc. node	14764 Jan 07 19:21	10° る 12'05	
					14764 Jan 18 14:07	0° ≈	
superior conj	14763 Feb 12 14:35	5°) 11'36	1°15'19	morning set	14764 Jan 20 19:35	4° ≈ 41'03	
minimum elong	14763 Feb 12 17:04	5° ¥ 24'26	1°15'33				
max. Earth dist.	14763 Feb 17 06:33	14° ¥ 39'47	1.35135 AU	superior conj	14764 Jan 27 17:46	19° ≈ 37'17	1°29'05
evening rise	14763 Feb 21 08:01	22°) € 30'35		minimum elong	14764 Jan 27 19:32	19° ≈ 46'44	1°29'41
desc. node	14763 Feb 22 12:35	24°) €43'58		max. Earth dist.	14764 Jan 30 23:49	26° ≈ 31'01	1.33398 AU
	14763 Feb 25 10:08	0° Υ			14764 Feb 01 16:13	0°) €	
	14763 Mar 16 14:11	0°8		evening rise	14764 Feb 04 15:49	6° ₩ 00'07	
						2 7(3007	

desc. node	14764 Feb 09 09:10	15° ₩ 00'19		max. Earth dist.	14765 Jan 13 00:25	8° ≈ 28'45	1.32117 AU
	14764 Feb 18 02:02	0° Υ		evening rise	14765 Jan 18 09:46	19° ≈ 53'41	
evening max el	14764 Mar 10 04:10		27°16'48		14765 Jan 23 12:45	0° ∺	
. 1	14764 Mar 12 15:38	0°8		desc. node	14765 Jan 26 05:47	5° ₩ 00'56	
retrograde	14764 Mar 23 17:38	5° 8 15'13			14765 Feb 11 04:58	0° Υ	27024154
evening set	14764 Mar 30 09:55	2° 8 44'37 30° RY		evening max el	14765 Feb 20 15:48	10° Υ 50'51 18° Υ 18'38	27°34'54
min. Earth dist.	14764 Apr 02 11:01	30° γ 1 29° Υ 08'22	0.64954 AU	retrograde	14765 Mar 06 12:40 14765 Mar 13 09:01	18° γ 18′38 15° γ 57′05	
asc. node	14764 Apr 03 06:44 14764 Apr 04 16:04	29° 1 08 22 27° Υ 37'16	0.04934 AU	evening set min. Earth dist.	14765 Mar 17 03:19	13 γ 37 03 12° γ 48'43	0.62982 AU
inferior conj	14764 Apr 05 16:56	26° Υ 28'20	0°19'37	inferior conj	14765 Mar 20 00:08	9° Y 59'00	
minimum elong	14764 Apr 05 16:23	26° Y 29′51	0°19'02	minimum elong	14765 Mar 20 01:46	9° Υ '54'57	0°48'58
morning rise	14764 Apr 12 00:42	21° Υ 01'04	0 1702	asc. node	14765 Mar 22 13:33	7° Υ '34'10	0 40 50
direct	14764 Apr 14 16:55	20° Υ 23'28		morning rise	14765 Mar 26 21:14	4° Υ 47'24	
morning max el	14764 Apr 21 00:40	23° Y 39'46	17°55'33	direct	14765 Mar 29 05:27	4° Υ 21'22	
5 5	14764 Apr 26 05:18	0°8		morning max el	14765 Apr 04 18:27	7° Υ 41'10	17°46'11
desc. node	14764 May 07 11:20	17° 8 50'43		Č	14765 Apr 19 14:13	0° 8	
morning set	14764 May 08 16:57	19° 8 53'09		morning set	14765 Apr 20 23:06	2° 8 22'28	
	14764 May 14 20:38	$\Pi^{\circ}0$		desc. node	14765 Apr 24 08:00	8° 8 12'19	
superior conj	14764 May 22 18:27	12° Ⅱ 43'10	-1°42'21	superior conj	14765 May 03 04:33	23° 8 09'24	-1°06'18
minimum elong	14764 May 22 09:32		1°42'26	minimum elong	14765 May 02 22:07	22° 8 42'51	1°06'09
max. Earth dist.	14764 May 26 17:15	18° Ⅱ 57'10	1.45570 AU	8	14765 May 07 09:14	0°II	
	14764 Jun 02 19:36	0°ಅ		max. Earth dist.	14765 May 09 10:57	3° Ⅱ 19'27	1.44510 AU
evening rise	14764 Jun 07 18:31	7°937'36		evening rise	14765 May 18 05:37	17° Ⅱ 03'46	
greatest brilliancy	14764 Jun 22 00:18	29° © 05'24	-0.6m	Č	14765 May 26 18:53	0°©	
	14764 Jun 22 15:20	$0^{\circ}\Omega$		evening max el	14765 Jun 16 18:09	28° © 07'33	20°49'03
asc. node	14764 Jul 01 14:10	11° Ω 56'58		asc. node	14765 Jun 18 11:07	29°5643'28	
evening max el	14764 Jul 03 17:44	14° Ω 16′06	19°44'30		14765 Jun 18 18:52	$0^{\circ}\Omega$	
retrograde	14764 Jul 11 03:02	18° Ω 25'58		retrograde	14765 Jun 25 02:04	2° Ω 55'58	
evening set	14764 Jul 14 22:08	17° Ω 02′28		evening set	14765 Jun 29 07:36	1° Ω 15′18	
inferior conj	14764 Jul 20 06:00	11° Ω 05′22	3°05'27		14765 Jun 30 16:18	30° ℝ ∽	
minimum elong	14764 Jul 20 06:57	11° Ω 02'12	3°04'31	inferior conj	14765 Jul 04 13:25	25° © 06'40	3°10'26
min. Earth dist.	14764 Jul 21 08:42	9° Ω 35'56	0.67729 AU	minimum elong	14765 Jul 04 13:23	25° © 06'49	3°09'29
morning rise	14764 Jul 25 15:18	4° Ω 40'35		min. Earth dist.	14765 Jul 05 02:26	24° © 21'38	0.68614 AU
direct	14764 Jul 31 10:28	2° Ω 08'22		morning rise	14765 Jul 09 18:52	18° © 46'05	
desc. node	14764 Aug 03 10:12	2° Ω 42'32		direct	14765 Jul 15 02:14	16° © 26'45	
morning max el	14764 Aug 12 09:23		25°04'52	desc. node	14765 Jul 21 07:33	18°954'01	
	14764 Aug 28 17:48	0° Mp		morning max el	14765 Jul 25 20:00	22° © 51'25	23°36'30
	14764 Sep 16 11:03	0∘ ⊽			14765 Aug 01 02:37	0° N	
morning set	14764 Sep 17 05:33	1° £ 21'58	1 26751 AII	morning set	14765 Aug 22 01:35	0° Mp 12° Mp 35′44	
max. Earth dist.	14764 Sep 20 18:51	7° ≏ 48'43	1.36751 AU	morning set max. Earth dist.	14765 Aug 29 18:46 14765 Sep 02 16:49	12 m/33 44 19°m/19'31	1.39112 AU
superior conj	14764 Sep 27 09:11	20° ≏ 25'32	-0°02'34	max. Earth dist.	14765 Sep 02 16.49	0₀ ʊ 19 ll i 1931	1.39112 AU
minimum elong	14764 Sep 27 09:20	20° ⊆ 26'16			14703 Sep 00 13.20	v –	
behind sun begin	14764 Sep 27 02:54	19° £ 54'36	0 0217	superior conj	14765 Sep 10 08:06	3° ≏ 08'42	-0°37'10
behind sun end	14764 Sep 27 15:45	20° £ 58'00		minimum elong	14765 Sep 10 10:49	3° £ 21'22	
asc. node	14764 Sep 27 15:51	20° £ 58'28		asc. node	14765 Sep 14 12:26	11° £ 05'22	
	14764 Oct 02 03:48	0°M		evening rise	14765 Sep 19 12:24	20° ≙ 48'06	
evening rise	14764 Oct 05 13:47	6°M56'29			14765 Sep 24 07:40	0° M ₊	
	14764 Oct 18 09:24	0°⊀		evening max el	14765 Oct 05 16:30	17°ML08'20	18°47'06
evening max el	14764 Oct 22 19:12	5° ∡ 19′09	19°40'57	retrograde	14765 Oct 14 02:39	21°M22'56	
desc. node	14764 Oct 30 06:28	9° ∡ ¹59'20		evening set	14765 Oct 16 00:13	21°ML10'48	
retrograde	14764 Nov 01 18:06	10° ∡ 17′24		desc. node	14765 Oct 17 03:51	20°M52'15	
evening set	14764 Nov 03 16:33	10° ∡ ¹06'58		inferior conj	14765 Oct 24 04:10	16°ML49'17	-2°14'07
inferior conj	14764 Nov 12 10:32	6° ≯ 04'10	-4°00'27	minimum elong	14765 Oct 23 22:38	16°M59'20	2°11'16
minimum elong	14764 Nov 12 00:56	6° ∡ 19'12	3°56'27	min. Earth dist.	14765 Oct 27 05:26	14°M36'54	0.56843 AU
min. Earth dist.	14764 Nov 14 15:55	4° ≯ 40'31	0.55270 AU	morning rise	14765 Oct 31 17:52	11°M55'22	
morning rise	14764 Nov 20 07:34	1° ∡ 746′11		direct	14765 Nov 06 15:28	10°MJ31'11	
direct	14764 Nov 25 10:51	0° ∡ 747'34	0.4055:22	morning max el	14765 Nov 20 20:20	17°M53'02	26°27'34
morning max el	14764 Dec 09 07:40	7° ×7 43'12	24°52'39		14765 Nov 30 22:18	0° ∡¹	
asc. node	14764 Dec 24 16:32	28° ₹ 31'54		asc. node	14765 Dec 11 13:36	17° ∡ 28'48	
	14764 Dec 25 12:37	0°る			14765 Dec 17 21:16	0°る 2° ろ 57140	
morning set	14765 Jan 04 07:28	19° る 23'11		morning set	14765 Dec 19 18:04	3° る 57'40	
	14765 Jan 09 03:49	0° ≈		superior cori	14765 Dec 26 12:38	18° る 54'51	1°37'44
superior conj	14765 Jan 11 01:50	4° ≈ 13'45	1°36'28	superior conj minimum elong	14765 Dec 26 12:38 14765 Dec 26 12:19	18°る53'05	1°37'44 1°38'43
minimum elong	14765 Jan 11 01:30	4 ≈13 43 4°≈17'56		max. Earth dist.	14765 Dec 27 06:30	18 833 03 20° る 34'26	1.31344 AU
mmmum ciong	17/03 Jan 11 02.33	¬ ~1/30	1 3/20	max. Earth dist.	17/03 DCC 2/ 00.30	20 05420	1.515 11 AU

	14765 Dec 31 13:21	0° ≈		superior conj	14766 Dec 11 00:10	3°₹34'12	
evening rise	14766 Jan 02 11:13	4°≈04'47		minimum elong	14766 Dec 10 22:53	3°る26'59	1°33'57
desc. node	14766 Jan 13 02:31	24°≈39'22 0°¥		evening rise	14766 Dec 17 17:46	18°る26'48 0°≈	
	14766 Jan 16 06:12	23° 升 17′25	27920127	JJ.	14766 Dec 23 08:29	0°≈ 13°≈46'24	
evening max el	14766 Feb 02 23:27 14766 Feb 13 04:34	23 π 1/23 0° Υ	27 20 30	desc. node	14766 Dec 30 23:18 14767 Jan 11 09:48	13 ≈ 46 24 0° H	
retrograde	14766 Feb 16 23:10	0° Υ 36'26		evening max el	14767 Jan 11 09.48	0 X 4° ¥ 53'08	26°31'14
retrograde	14766 Feb 20 15:11	0 1 30 20 30°R ∺		retrograde	14767 Jan 29 23:24	12° H 01'04	20 31 14
evening set	14766 Feb 23 18:16	28°) 31'40		evening set	14767 Feb 05 10:05	10° H 19'50	
min. Earth dist.	14766 Feb 27 13:51	25°) (44'11	0.60810 AU	min. Earth dist.	14767 Feb 09 13:45	7°) 42'37	0.58611 AU
inferior conj	14766 Mar 02 17:32	22°)(59'55		inferior conj	14767 Feb 12 17:21	5° ¥ 20'18	
minimum elong	14766 Mar 02 22:16	22° H 49'36		minimum elong	14767 Feb 13 01:19	5° ₩ 05'17	
asc. node	14766 Mar 09 11:01	18°) €22'09		morning rise	14767 Feb 20 19:42	0°) (48′29	
morning rise	14766 Mar 10 05:30	18°) €06'46		direct	14767 Feb 22 19:44	0°) (34′34	
direct	14766 Mar 12 07:50	17°) 48'37		asc. node	14767 Feb 24 08:28	0°) 43′03	
morning max el	14766 Mar 19 10:25	21°) €22'35	17°55'02	morning max el	14767 Mar 02 20:53	4°) €33'07	18°23'37
S	14766 Mar 25 23:55	$0^{\circ}\mathbf{\Upsilon}$		morning set	14767 Mar 18 16:02	29°) 46′08	
morning set	14766 Apr 04 00:41	15° Ƴ 45'52		C	14767 Mar 18 18:56	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	14766 Apr 11 04:37	28° Ƴ 41'56					
	14766 Apr 11 22:15	9° 8		superior conj	14767 Mar 27 22:11	17° Ƴ 12'29	0°09'13
				minimum elong	14767 Mar 27 22:50	17° Ƴ 15′28	0°08'53
superior conj	14766 Apr 14 14:30	4° 8 41'20	-0°27'13	behind sun begin	14767 Mar 27 16:45	16° Ƴ 47'37	
minimum elong	14766 Apr 14 12:05	4° 8 30'48	0°27'19	behind sun end	14767 Mar 28 04:55	17° Y 43'16	
max. Earth dist.	14766 Apr 22 01:07	17° 8 15'23	1.42858 AU	desc. node	14767 Mar 29 01:10	19° Ƴ 15'30	
evening rise	14766 Apr 28 03:23	27° 8 04'03			14767 Apr 04 03:08	9° 8	
	14766 Apr 30 00:15	$\Pi^{\circ}0$		max. Earth dist.	14767 Apr 04 10:53	0° 8 33'14	1.40776 AU
	14766 May 20 13:25	0 \circ \odot		evening rise	14767 Apr 08 20:38	7° 8 57'15	
evening max el	14766 May 30 13:10	11° © 59'21	22°04'14		14767 Apr 23 01:27	Π °0	
asc. node	14766 Jun 05 08:09	16° © 31'53		evening max el	14767 May 13 04:23	25° Ⅱ 52'15	23°24'59
retrograde	14766 Jun 08 23:59	17° © 31'23			14767 May 18 01:06	0 \circ \odot	
evening set	14766 Jun 13 16:40	15° © 34'19		asc. node	14767 May 23 05:15	2° 5 05'39	
inferior conj	14766 Jun 18 22:55	9° © 15'46	3°04'21	retrograde	14767 May 23 19:28	2° © 07'12	
minimum elong	14766 Jun 18 21:57	9° © 19'09	3°03'15	evening set	14767 May 28 23:43	29° Ⅱ 55'36	
min. Earth dist.	14766 Jun 18 22:41	9° © 16'35	0.69019 AU		14767 May 28 21:40	30°RⅡ	
morning rise	14766 Jun 24 03:04	3°901'38		inferior conj	14767 Jun 03 08:34	23° Ⅱ 29'24	2°47'52
direct	14766 Jun 28 21:58	0°959'50		minimum elong	14767 Jun 03 06:52	23° II 35'16	2°46'35
desc. node	14766 Jul 08 04:50	6°522'41	22000102	min. Earth dist.	14767 Jun 02 19:25	24° Ⅱ 14'44	0.68937 AU
morning max el	14766 Jul 08 08:41	6°932'17	22°08'03	morning rise	14767 Jun 08 13:59	17° Ⅱ 23'04	
marning gat	14766 Jul 26 11:15	0° Ω 22° Ω 46'33		direct	14767 Jun 12 20:25	15° Ⅱ 41'15 20° Ⅱ 24'04	20°47'02
morning set	14766 Aug 10 07:55 14766 Aug 14 18:08	0°M)		morning max el desc. node	14767 Jun 21 02:36 14767 Jun 25 02:01	20 H 24 04 24° H 48'38	20 4/02
max. Earth dist.	14766 Aug 15 18:10		1.41446 AU	desc. Hode	14767 Jun 29 03:34	0°95	
max. Earm dist.	14700 Aug 13 16.10	1 11/3930	1.41440 AU		14767 Jul 19 15:17	0° U	
superior conj	14766 Aug 23 13:17	15° m 03'51	-1°13'00	morning set	14767 Jul 20 22:12	1° £ 59'43	
minimum elong	14766 Aug 23 18:59	15° m/29'06		max. Earth dist.	14767 Jul 29 02:05	14° £ 554'29	1.43471 AU
minimum crong	14766 Aug 31 18:39	0∘ ರ	1 1232	max. Dartii dist.	11707 341 25 02.03	11 063129	1.15171710
asc. node	14766 Sep 01 09:00	1° ≏ 06'33		superior conj	14767 Aug 04 20:31	26° Ω 02'07	-1°45'30
evening rise	14766 Sep 03 00:51	4° £ 11'39		minimum elong	14767 Aug 05 04:03	26° Ω 33'42	
evening max el	14766 Sep 18 23:40	29° £ 39'37	18°14'40		14767 Aug 07 04:56	0° m	
-	14766 Sep 19 08:01	0° M ₊		evening rise	14767 Aug 16 22:44	16° m 56'19	
retrograde	14766 Sep 26 06:42	3°M22'29		asc. node	14767 Aug 19 05:34	20° m 58'21	
evening set	14766 Sep 28 09:41	3°ML04'11			14767 Aug 24 10:50	0∘ ত	
	14766 Oct 03 19:36	30° ₹ Ω		evening max el	14767 Sep 02 12:26	12° ≙ 43'15	18°02'13
desc. node	14766 Oct 04 01:18	29° ≏ 48'45		retrograde	14767 Sep 09 03:19	16° ≙ 08'17	
inferior conj	14766 Oct 05 19:37	28° ₽ 21′09	-0°33'32	evening set	14767 Sep 11 13:55	15° ≏ 40'07	
minimum elong	14766 Oct 05 18:25	28° ≏ 23'44	0°32'39	inferior conj	14767 Sep 18 06:55	10° ≏ 37'10	0°48'31
min. Earth dist.	14766 Oct 09 02:18	25° ≏ 35'10	0.58927 AU	minimum elong	14767 Sep 18 08:20	10° ≏ 33'42	0°48'05
morning rise	14766 Oct 12 23:44	22° £ 51'33		desc. node	14767 Sep 20 22:47	8° ჲ 00'57	
direct	14766 Oct 19 09:34	21° ≏ 00'44		min. Earth dist.	14767 Sep 21 08:38	7° ≏ 37'43	0.61212 AU
morning max el	14766 Nov 02 16:45	28° ≏ 42'30	27°32'14	morning rise	14767 Sep 24 23:56	4° ≏ 39'41	
	14766 Nov 03 23:32	0° M ₅		direct	14767 Oct 01 15:30	2° £ 25'14	
_	14766 Nov 24 18:43	0° ∡		morning max el	14767 Oct 15 20:44	10° £ 20'59	27°58'25
asc. node	14766 Nov 28 10:34	6° ₹ 52'24		_	14767 Oct 31 04:51	0°M	
morning set	14766 Dec 04 01:31	18° ∡ 19'13		asc. node	14767 Nov 15 07:25	26°M35'20	
TP - 41 - 21	14766 Dec 09 09:50	0°る	1 21005 177		14767 Nov 17 00:00	0° ⊀ ⁷	
max. Earth dist.	14766 Dec 10 14:39	2° ⋜ 40'54	1.31095 AU	morning set	14767 Nov 18 03:53	2° 🖈 23'31	1 21202 177
				max. Earth dist.	14767 Nov 23 21:01	14° ≯ 39'10	1.31383 AU

superior conj	14767 Nov 25 10:37	18° √ 07'02		minimum elong	14768 Nov 08 15:43		1°06'28
minimum elong	14767 Nov 25 08:36	17° ₹ 55'53	1°23'10	evening rise	14768 Nov 15 14:23	17° ∡ 24'59	
	14767 Nov 30 19:17	0°궁 2°궁55'04		JJ.	14768 Nov 21 16:55	0°る 19°る36'29	
evening rise	14767 Dec 02 03:26	2° ⊘ 33'04 0° ≈		desc. node evening max el	14768 Dec 03 17:13 14768 Dec 09 02:18	19 ⁸ る 36 ⁸ 29 25° る 41'31	22920140
desc. node	14767 Dec 16 10:21 14767 Dec 17 20:12	0 ≈ 2°≈10'39		evening max er	14768 Dec 14 14:56	23 ⊙ 4131	23 30 49
evening max el	14767 Dec 17 20:12 14767 Dec 28 16:13	2 ≈10 39 15°≈35'53	25°10'33	retrograde	14768 Dec 14 14.36 14768 Dec 22 11:48	0 ≈ 2°≈20'31	
retrograde	14768 Jan 11 12:00	13 ≈33 33 22°≈32'06	23 10 33	evening set	14768 Dec 27 00:07	2 ≈2031 1°≈36'18	
evening set	14768 Jan 17 04:38	22 ≈32 00 21°≈19'04		evening set	14768 Dec 30 19:23	1 ≈30 18 30°Rる	
min. Earth dist.	14768 Jan 22 04:21	18°≈36'37	0.56628 AU	min. Earth dist.	14769 Jan 02 12:59		0.55157 AU
inferior conj	14768 Jan 24 20:39	16°≈51'32		inferior conj	14769 Jan 04 03:44	28 3 2930 27° る 32'55	
minimum elong	14768 Jan 25 05:38	16°≈36'49	4°55'23	minimum elong	14769 Jan 04 08:12	27°る26'21	5°50'25
morning rise	14768 Feb 02 09:09	12° ≈ 41'40	4 33 23	morning rise	14769 Jan 12 17:55	23° る 40'06	3 30 23
direct	14768 Feb 04 12:54	12° ≈ 28'17		direct	14769 Jan 15 10:42	23° る 22'21	
asc. node	14768 Feb 11 05:54	14°≈47'47		morning max el	14769 Jan 26 09:22	28° ろ 38'02	20°26'57
morning max el	14768 Feb 13 21:48	17° ≈ 01'32	19°13'46	morning man er	14769 Jan 27 17:32	0° ≈	20 20 07
	14768 Feb 23 05:30	0°) €	-,	asc. node	14769 Jan 28 03:17	0°≈26'38	
morning set	14768 Mar 01 16:43	14°) 09'49		morning set	14769 Feb 13 23:32	28° ≈ 47'47	
morning sec	11,001,141 01 10.15	11,7(0),		morning sec	14769 Feb 14 13:34	0° \	
superior conj	14768 Mar 09 23:09	0° Y '30'06	0°40'05				
minimum elong	14768 Mar 10 01:24	0° Y 40'59	0°39'49	superior conj	14769 Feb 21 13:06	14°) 22′19	1°04'23
· ·	14768 Mar 09 16:55	0° Y		minimum elong	14769 Feb 21 15:44	14°) €35'42	1°04'23
desc. node	14768 Mar 14 21:40	9° Y '49'07		max. Earth dist.	14769 Feb 27 00:29	25° ¥ 10′11	1.36289 AU
max. Earth dist.	14768 Mar 16 17:16	13° Y °07'45	1.38501 AU	desc. node	14769 Mar 01 18:11	0° Υ 19'31	
evening rise	14768 Mar 20 10:57	19° Ƴ 44'23			14769 Mar 01 13:58	0° Y	
C	14768 Mar 26 13:41	0°B		evening rise	14769 Mar 02 20:13	2° Y 19'15	
	14768 Apr 16 04:52	0°II		, and the second	14769 Mar 19 15:03	9° 8	
evening max el	14768 Apr 24 17:52	9° Ⅱ 45'34	24°45'01	evening max el	14769 Apr 07 07:22	23° 8 37'20	25°57'11
retrograde	14768 May 06 11:24	16° Ⅲ 36'34		C	14769 Apr 15 23:37	$\Pi^{\circ}0$	
asc. node	14768 May 09 02:28	16° Ⅱ 06'52		retrograde	14769 Apr 19 22:44	0° Ⅱ 52'47	
evening set	14768 May 12 03:10	14° Ⅱ 13'29			14769 Apr 23 14:42	30° ₹ 8	
min. Earth dist.	14768 May 16 14:30	9° Ⅱ 09'15	0.68379 AU	asc. node	14769 Apr 25 23:47	28° 8 25'46	
inferior conj	14768 May 17 16:27	7° Ⅱ 43'00	2°21'00	evening set	14769 Apr 26 01:19	28° 8 22'33	
minimum elong	14768 May 17 14:20	7° Ⅱ 50'03	2°19'34	min. Earth dist.	14769 Apr 30 05:59	23° 8 53'51	0.67372 AU
morning rise	14768 May 23 01:45	1° Ⅱ 45'32		inferior conj	14769 May 01 20:37	21° 8 52'32	1°43'14
direct	14768 May 26 20:14	0° Ⅲ 24′03		minimum elong	14769 May 01 18:33	21° 8 59'03	1°41'49
morning max el	14768 Jun 03 03:39	4° Ⅱ 26'44	19°38'28	morning rise	14769 May 07 12:28	16° 8 05'09	
desc. node	14768 Jun 10 23:04	13° Ⅱ 55'59		direct	14769 May 10 19:55	15° 8 02'40	
greatest brilliancy	14768 Jun 15 20:48	20° Ⅱ 54'57	-0.6m	morning max el	14769 May 17 11:53	18° 8 37'32	18°45'16
	14768 Jun 21 23:13	0 \circ 60			14769 May 26 10:21	Π °0	
morning set	14768 Jun 29 00:55	10° © 46'18		desc. node	14769 May 28 20:00	3° Ⅲ 33'42	
max. Earth dist.	14768 Jul 10 15:55	28° © 51'03	1.44965 AU	greatest brilliancy	14769 May 31 17:13	7° Ⅱ 56'44	-0.8m
	14768 Jul 11 09:22	$0^{\circ}\Omega$		morning set	14769 Jun 08 12:38	20° Ⅱ 03'07	
					14769 Jun 14 21:53	0 \circ	
superior conj	14768 Jul 15 04:05	6° Ω 01'08	-2°07'59	max. Earth dist.	14769 Jun 23 09:52	13° © 14'56	1.45788 AU
minimum elong	14768 Jul 15 09:24	6° Ω 22'29	2°08'37				
evening rise	14768 Jul 29 00:47	28° Ω 48'27		superior conj	14769 Jun 24 17:19	15°917'50	
	14768 Jul 29 17:50	0° ™		minimum elong	14769 Jun 24 15:32	15° © 10'51	2°14'19
asc. node	14768 Aug 05 02:09	10° m 35'38			14769 Jul 04 01:31	0 ° Ω	
evening max el	14768 Aug 16 03:03	26° Mp 09'21	18°08'32	evening rise	14769 Jul 10 02:40	9° Ω 38'42	
retrograde	14768 Aug 22 11:47	29° Tp 30'06		asc. node	14769 Jul 22 22:49	29° Ω 52'58	
evening set	14768 Aug 25 06:51	28° m 48'53			14769 Jul 23 00:43	0° m)	
inferior conj	14768 Aug 31 10:04	23° m 28'37	1°49'32	evening max el	14769 Jul 30 16:20	9° m 50'07	18°32'43
minimum elong	14768 Aug 31 12:26	23° Tp 22'04	1°48'35	retrograde	14769 Aug 06 04:02	13° Mp 19'46	
min. Earth dist.	14768 Sep 03 00:54	20° Mp 36'00	0.63436 AU	evening set	14769 Aug 09 08:03	12° m 23'05	2021122
morning rise	14768 Sep 06 16:03	17° Mp 13'32		inferior conj	14769 Aug 15 01:06	6° Mp 47'26	2°31'23
desc. node	14768 Sep 06 20:18	17° Mp 05'34		minimum elong	14769 Aug 15 03:20	-•	2°30'23
direct	14768 Sep 13 07:28	14° Mp 42'23	27016117	min. Earth dist.	14769 Aug 17 02:19	4° Mp 18'39	0.65412 AU
morning max el	14768 Sep 27 05:41	22° ™ 43'09 0° ₽	27°46'17	morning rise	14769 Aug 20 21:26	0° m/23′55 30° R.Ω	
	14768 Oct 03 16:32	0° ™		desc. node	14769 Aug 21 09:23	30°R31 28°Ω09'52	
morning set	14768 Oct 23 10:58	บ"แเ 16°Mเ04'59		desc. node direct	14769 Aug 24 17:49	$28^{\circ}09^{\circ}52$ $27^{\circ}\Omega45^{\circ}16$	
morning set asc. node	14768 Oct 31 22:55 14768 Nov 01 04:10	16°M31'24		uncci	14769 Aug 27 07:45 14769 Sep 02 22:45	2/°3 (45°16	
max. Earth dist.	14768 Nov 05 21:40	26°M19'57	1.32216 AU	morning max el	14769 Sep 02 22:45 14769 Sep 09 16:39	5° Mp 37'47	27°01'20
max. Earth Uist.	14768 Nov 05 21:40 14768 Nov 07 14:42	20°111⊾19'37 0° √ 1	1.32210 AU	morning max er	14769 Sep 09 16:39 14769 Sep 28 09:02	១° ០ 0° ០	41 U1 4U
	17/00 INUV U/ 14.42	· ^		morning set	14769 Oct 15 07:46	0 <u>≈</u> 29° ≏ 16'24	
superior conj	14768 Nov 08 18:02	2° ∡ ¹28'10	1°05'57	morning set	14769 Oct 15 16:48	29 = 10 24 0° M	
superior conj	11,001101 00 10.02	2 7 20 10	1 00 01		11,00 000 10 10.40	∪ IIV	

asc. node	14769 Oct 19 00:50	6° ™ 35′24		max. Earth dist.	14770 Oct 01 19:25		1.35495 AU
max. Earth dist.	14769 Oct 19 13:19	7° ™ 38′28	1.33604 AU	asc. node	14770 Oct 05 21:27	26° ≏ 43'37	
superior conj	14769 Oct 23 20:12	16° ጤ 31'17	0°43'38	superior conj	14770 Oct 07 14:31	0° IL 10'09	0°15'47
minimum elong	14769 Oct 23 18:11	16° M ₊20'39	0°43'57	minimum elong	14770 Oct 07 13:36	0° M 05'29	0°16'01
	14769 Oct 30 03:46	0° ∡ ¹		behind sun begin	14770 Oct 07 12:57	0°ML02'10	
evening rise	14769 Oct 31 00:45	1° х 51′28		behind sun end	14770 Oct 07 14:15	0°ML08'48	
evening rise	14769 Nov 15 16:28	0°る		oemma san ena	14770 Oct 07 12:31	0°M	
			21040122				
evening max el	14769 Nov 20 14:32	5°る42'42	21-49-33	evening rise	14770 Oct 15 08:34	16°M09'52	
desc. node	14769 Nov 20 14:21	5° る 42'15			14770 Oct 22 08:40	0° ∡ ¹	
retrograde	14769 Dec 03 00:19	11° る 51'10		evening max el	14770 Nov 02 13:52	16° ⊀ 14'55	20°21'53
evening set	14769 Dec 06 04:23	11° る 28'38		desc. node	14770 Nov 07 11:37	20° ∡ ¹02'46	
inferior conj	14769 Dec 14 21:00	7° る 36'32	-5°52'56	retrograde	14770 Nov 13 11:15	21° х 40′05	
minimum elong	14769 Dec 14 16:23	7° る 42'58	5°51'30	evening set	14770 Nov 15 16:18	21° × ⁷ 27'44	
min. Earth dist.	14769 Dec 14 18:53	7° る 39'28	0.54474 AU	inferior conj	14770 Nov 24 13:40	17° ∡ ³32′09	-4°54'10
morning rise	14769 Dec 23 05:11	3° ප 48'51		minimum elong	14770 Nov 24 03:42	17° ∡ ¹46'46	4°50'41
direct	14769 Dec 26 20:10	3°る20'00		min. Earth dist.	14770 Nov 26 01:10	16° ∡ 740'04	0.54725 AU
			22001152				0.54725 AU
morning max el	14770 Jan 08 06:10	9° る 18'59	22°01'53	morning rise	14770 Dec 02 14:36	13° ∡ 731′03	
asc. node	14770 Jan 15 00:36	17° る 21'10		direct	14770 Dec 07 05:38	12° ∡ ¹44'57	
	14770 Jan 22 16:10	0° ≈		morning max el	14770 Dec 20 16:51		23°50'21
morning set	14770 Jan 29 09:55	13° ≈ 31'52			14770 Dec 29 12:36	0°₹	
				asc. node	14771 Jan 01 21:50	5° る 14'18	
superior conj	14770 Feb 05 12:18	28° ≈ 37'51	1°21'57	morning set	14771 Jan 13 21:49	28° ප 16'26	
minimum elong	14770 Feb 05 14:32	28° ≈ 49'35	1°22'20	C	14771 Jan 14 17:05	0° ≈	
8	14770 Feb 06 03:56	0° ∀					
max. Earth dist.	14770 Feb 09 13:23	7° ∺ 00'26	1.34346 AU	superior conj	14771 Jan 20 17:51	13° ≈ 08'42	1°32'58
			1.54540 AU				
evening rise	14770 Feb 13 20:48	15°) € 31'22		minimum elong	14771 Jan 20 19:13	13°≈16'05	1°33'42
desc. node	14770 Feb 16 14:43	20°) 42′03		max. Earth dist.	14771 Jan 23 10:09	18° ≈ 54'50	1.32803 AU
	14770 Feb 21 19:53	0° Υ		evening rise	14771 Jan 28 09:20	29° ≈ 12'01	
	14770 Mar 14 04:50	9° 8			14771 Jan 28 18:55	0° ∀	
evening max el	14770 Mar 20 21:14	7° 8 20'17	26°54'03	desc. node	14771 Feb 03 11:18	10° ¥ 52'15	
retrograde	14770 Apr 03 04:21	14° 8 47'34			14771 Feb 14 22:45	$0^{\circ}\mathbf{\Upsilon}$	
evening set	14770 Apr 09 16:18	12° 8 15'36		evening max el	14771 Mar 03 10:19	20° Ƴ 43'24	27°28'09
asc. node	14770 Apr 12 21:11	9° 8 12'16		retrograde	14771 Mar 17 03:16	28° Y °12'26	
min. Earth dist.	14770 Apr 12 21:11 14770 Apr 13 15:40	8° 8 20'48	0.65944 AU	evening set	14771 Mar 23 21:52	25° Υ 44'59	
	-			-		23 γ 44 39 22° γ 21'12	0.64152 AU
inferior conj	14770 Apr 15 18:48	5° 8 52'17	0°53'44	min. Earth dist.	14771 Mar 27 17:26		
minimum elong	14770 Apr 15 17:27	5° 8 56'13	0°52'43	inferior conj	14771 Mar 30 08:21	19° Ƴ 35'44	
morning rise	14770 Apr 21 19:58	0° 8 16'47		minimum elong	14771 Mar 30 08:36	19° Ƴ 35'04	0°08'22
	14770 Apr 22 10:12	30° ŖƳ		transit middle	14771 Mar 30 08:36	19° Ƴ 35′04	0°08'22
direct	14770 Apr 24 17:26	29° Ƴ 30'54		transit begin	14771 Mar 30 05:57	19° Ƴ 42'04	
	14770 Apr 27 01:26	9° 8		transit end	14771 Mar 30 11:15	19° Ƴ 28'04	
morning max el	14770 May 01 01:50	2° 8 50'29	18°08'45	asc. node	14771 Mar 30 18:40	19° Ƴ 08'36	
desc. node	14770 May 15 16:49	23° 8 33'13		morning rise	14771 Apr 05 21:30	14° Y 14'35	
acco. noac	14770 May 19 16:54	0°II		direct	14771 Apr 08 10:14	13° Y '42'12	
mamina aat	-	0° П 33'40			-	16° Υ '58'25	17°49'24
morning set	14770 May 20 01:15	0 Д3340		morning max el	14771 Apr 14 19:03		1 / 49 24
		—		_	14771 Apr 24 07:03	0° 8	
superior conj	14770 Jun 04 02:23	24° Ⅲ 29'54		morning set	14771 May 01 17:28	12° 8 23'36	
minimum elong	14770 Jun 03 18:19	23° Ⅱ 58'19	1°59'01	desc. node	14771 May 02 13:33	13° 8 48'12	
max. Earth dist.	14770 Jun 06 06:06	27° Ⅲ 52′13	1.45866 AU		14771 May 12 07:42	Π °0	
	14770 Jun 07 14:51	0 \circ \odot					
evening rise	14770 Jun 20 04:51	19° © 32'01		superior conj	14771 May 15 00:04	4° Ⅱ 20'35	-1°27'53
C	14770 Jun 26 23:33	$0^{\circ}\Omega$		minimum elong	14771 May 14 15:46	3° Ⅱ 47'10	1°27'47
greatest brilliancy	14770 Jul 02 01:20	7° Ω 43'05	-0.7m	max. Earth dist.	14771 May 20 01:59	12° Ⅱ 26'29	1.45201 AU
	14770 Jul 09 19:36	18° Ω 43'15	0.7111		14771 May 30 16:52	28° II 55'59	1.43201710
asc. node			10012110	evening rise	•		
evening max el	14770 Jul 14 01:48	23° Ω 38'59	19°13'49		14771 May 31 09:37	0°99	
retrograde	14770 Jul 21 00:50	27° Ω 30′23			14771 Jun 20 21:44	$0^{\circ}\Omega$	
evening set	14770 Jul 24 14:21	26° Ω 16'44		asc. node	14771 Jun 26 16:29	6° Ω 56'24	
inferior conj	14770 Jul 30 00:40	20° Ω 27'11	2°57'00	evening max el	14771 Jun 27 05:39	7° Ω 29'58	20°10'27
minimum elong	14770 Jul 30 02:09	20° Ω 22'20	2°56'04	retrograde	14771 Jul 04 23:41	11° Ω 54'57	
min. Earth dist.	14770 Jul 31 11:30	18° Ω 34'03	0.67009 AU	evening set	14771 Jul 08 23:14	10° Ω 23'52	
morning rise	14770 Aug 04 13:20	14° Ω 01'45	-	inferior conj	14771 Jul 14 05:53	4° Ω 21'38	3°08'59
direct	14770 Aug 10 14:48	11° Ω 24'57		minimum elong	14771 Jul 14 06:25	4°Ω19'50	3°08'03
desc. node	_	$11^{\circ}\Omega 24^{\circ}37$ $11^{\circ}\Omega 28'56$		_		3°Ω11'03	0.68161 AU
	14770 Aug 11 15:18		25052107	min. Earth dist.	14771 Jul 15 02:37		0.00101 AU
morning max el	14770 Aug 23 03:46	18° Ω 54'06	25°52'06		14771 Jul 17 14:21	30°R≌	
	14770 Sep 01 13:41	0° m		morning rise	14771 Jul 19 13:15	27° © 58'34	
	14770 Sep 21 10:07	0∘ ⊽		direct	14771 Jul 25 03:32	25° © 31'22	
morning set	14770 Sep 28 03:01	11° ≏ 50'09		desc. node	14771 Jul 29 12:44	26°5944'43	

	14771 Aug 03 02:07	0° Ω		direct	14772 Jul 07 20:59	9°956'53	
morning max el	14771 Aug 05 14:26	2° Ω 22'49	24°27'59	desc. node	14772 Jul 15 10:03	13°931'58	
	14771 Aug 26 15:22	0° m		morning max el	14772 Jul 18 01:46	15° © 59'56	22°58'30
morning set	14771 Sep 10 04:26	23° Tp 35'46			14772 Jul 29 13:48	$0^{\circ}\Omega$	
	14771 Sep 13 19:11	0∘ ⊽			14772 Aug 18 15:10	0° m)	
max. Earth dist.	14771 Sep 13 19:00	29° m 59'07	1.37744 AU	morning set	14772 Aug 21 07:44	4° m 23'39	
		_		max. Earth dist.	14772 Aug 25 17:48	11° m) 49'23	1.40122 AU
superior conj	14771 Sep 20 21:35	13° ≏ 15'48					
minimum elong	14771 Sep 20 22:43	13° ≏ 21'15	0°16'31	superior conj	14772 Sep 02 13:27	25° m 39'23	
asc. node	14771 Sep 22 18:01	16° ≏ 51'49		minimum elong	14772 Sep 02 17:26	25° m 57'36	0°51'57
evening rise	14771 Sep 29 11:21	0° ™ 13'19			14772 Sep 04 21:59	0∘ ত	
	14771 Sep 29 08:41	0° M		asc. node	14772 Sep 08 14:35	6° ≏ 56'42	
evening max el	14771 Oct 16 03:31	27° ™ 35′04	19°15'14	evening rise	14772 Sep 12 06:07	13° ≙ 54'20	
	14771 Oct 18 23:30	0° ∡ 7			14772 Sep 21 01:45	0° M	
retrograde	14771 Oct 25 09:53	2° ≯ 14'01		evening max el	14772 Sep 28 05:27	9° M ₊43'01	18°30'44
desc. node	14771 Oct 25 08:58	2° ≯ 14'00		retrograde	14772 Oct 06 03:00	13°M42'52	
evening set	14771 Oct 27 06:48	2° х 03′26		evening set	14772 Oct 08 02:13	13°M28'44	
	14771 Nov 01 11:01	30°₽MJ		desc. node	14772 Oct 11 06:23	12°M12'16	
inferior conj	14771 Nov 04 19:42	27°M52'53	-3°16'03	inferior conj	14772 Oct 15 22:39	8°M58'06	-1°29'43
minimum elong	14771 Nov 04 11:32	28° ™ 06′28	3°12'17	minimum elong	14772 Oct 15 19:05	9° M 05'01	1°27'44
min. Earth dist.	14771 Nov 07 11:09	26° ™ 07'33	0.55861 AU	min. Earth dist.	14772 Oct 19 03:46	6°M28'59	0.57682 AU
morning rise	14771 Nov 12 13:52	23°M20'24		morning rise	14772 Oct 23 08:28	3° M ₊47'59	
direct	14771 Nov 18 01:25	22°M11'40		direct	14772 Oct 29 11:50	2°M12'24	
morning max el	14771 Dec 02 02:43	29°M18'38	25°35'54	morning max el	14772 Nov 12 18:42	9° M .44'11	26°59'28
_	14771 Dec 02 19:43	0° ∡ 7		-	14772 Nov 28 06:28	0° ∡ ¹	
asc. node	14771 Dec 19 18:58	23° ₹ '51'13		asc. node	14772 Dec 05 15:57	13° ∡ ′00'31	
	14771 Dec 23 02:04	8°0		morning set	14772 Dec 12 18:52	27° ∡ ¹26'11	
morning set	14771 Dec 29 09:24	12° る 56'17		•	14772 Dec 13 23:25	0°⋜	
S							
superior conj	14772 Jan 05 03:21	27° る 47'58	1°37'44	superior conj	14772 Dec 19 14:41	12° る 29'17	1°36'28
minimum elong	14772 Jan 05 03:39	27° る 49'38	1°38'40	minimum elong	14772 Dec 19 13:56	12° る 25'05	1°37'26
	14772 Jan 06 03:13	0°≈		max. Earth dist.	14772 Dec 19 20:56	13° පි 04'13	1.31169 AU
max. Earth dist.	14772 Jan 06 13:38	0°≈57'26	1.31728 AU	evening rise	14772 Dec 26 10:37	27° ට 30'11	
evening rise	14772 Jan 12 06:47	13° ≈ 13'49			14772 Dec 27 15:00	0° ≈	
C	14772 Jan 20 22:02	0°) €		desc. node	14773 Jan 07 04:44	20°≈11'08	
desc. node	14772 Jan 21 07:59	0°) 44′35			14773 Jan 13 07:52	0° ₩	
	14772 Feb 10 09:34	$0^{\circ}\mathbf{Y}$		evening max el	14773 Jan 26 01:17	15° ¥ 39'20	27°03'47
evening max el	14772 Feb 13 20:30	3° Y 33'55	27°32'57	retrograde	14773 Feb 09 01:22	22°) 54'44	
retrograde	14772 Feb 27 18:40	10° Ƴ 58'17		evening set	14773 Feb 15 17:53	20° ¥ 58'56	
evening set	14772 Mar 05 15:30	8° Y '42'41		min. Earth dist.	14773 Feb 19 15:35		0.59861 AU
min. Earth dist.	14772 Mar 09 09:41		0.62077 AU	inferior conj	14773 Feb 22 20:31	15°) 40′12	
inferior conj	14772 Mar 12 10:09	2° Y '55'11		minimum elong	14773 Feb 23 02:41	15° ¥ 27'31	
minimum elong	14772 Mar 12 13:01	2° Υ '48'28		morning rise	14773 Mar 02 14:53	10° ¥ 56'15	
minimum viong	14772 Mar 15 18:25	30° ₽ ₩	1 21 10	asc. node	14773 Mar 03 13:37	10°) 45′00	
asc. node	14772 Mar 16 16:09	29°) €20'32		direct	14773 Mar 04 15:34	10°) 40′27	
morning rise	14772 Mar 19 13:29	27°) 51'19		morning max el	14773 Mar 12 02:46	14°) €23'37	18°04'41
direct	14772 Mar 21 18:59	27° ¥ 29'01		morning mun vi	14773 Mar 22 18:52	0° Υ	10 01.11
	14772 Mar 27 13:18	0°Υ		morning set	14773 Mar 27 16:42	8° Ƴ 59'31	
morning max el	14772 Mar 28 12:33	0° Υ 53'10	17°47'42	desc. node	14773 Apr 05 06:44	24° Υ 45'47	
morning set	14772 Apr 13 08:39	25° Y 18'35					
	14772 Apr 16 00:18	0°8		superior conj	14773 Apr 06 16:05	27° Ƴ 14'36	-0°11'16
desc. node	14772 Apr 18 10:10	4° 8 14'01		minimum elong	14773 Apr 06 15:08	27° Y 10'23	
desc. node	11//2/1pi 10 10:10	1 01101		behind sun begin	14773 Apr 06 09:40	26° Y 46'06	0 11 20
superior conj	14772 Apr 24 20:22	15° 8 15'37	-0°49'41	behind sun end	14773 Apr 06 20:36	27° Y '34'37	
minimum elong	14772 Apr 24 15:39	14° 8 55'45		bennia sun ena	14773 Apr 08 05:35	0°8	
max. Earth dist.	14772 May 01 18:39			max. Earth dist.	14773 Apr 06 05:33	10° 8 19'46	1.42006 AU
max. Earth dist.	14772 May 03 20:21	0°Ⅱ	1.45007 110	evening rise	14773 Apr 19 12:20	18° 8 54'46	1.42000710
evening rise	14772 May 09 26:55	8°∏33'08		evening rise	14773 Apr 26 14:28	0°Ⅱ	
evening fise	14772 May 23 14:31	0ം © ∘ πາາ 0∘			14773 May 18 03:19	0ಂಣ ೧ π	
evening max el	14772 Jun 09 03:31	21° © 21'15	21°19'57	evening max el	14773 May 18 03.19 14773 May 22 20:31	0 ৩ 5°©12'52	22028114
asc. node	14772 Jun 12 13:29	21°921°13 24°920'24	41 173/	asc. node	14773 May 22 20:31 14773 May 30 10:34	10°939'08	44 JO 14
		24 \$20 24 26°\$28'19				10 93908 11°904'19	
retrograde	14772 Jun 17 22:31	26°928'19 24°940'19		retrograde	14773 Jun 01 19:40 14773 Jun 06 17:08	9°500'53	
evening set	14772 Jun 22 08:45	18°\$26'59	3°09'10	evening set	14773 Jun 06 17:08 14773 Jun 12 00:14	2°938'32	2050120
inferior conj	14772 Jun 27 14:26		3°09'10 3°08'09	inferior conj	14773 Jun 12 00:14 14773 Jun 11 22:55		2°58'38 2°57'27
minimum elong min. Earth dist.	14772 Jun 27 13:59 14772 Jun 27 21:41	18°528'34 18°501'44		minimum elong min. Earth dist.	14773 Jun 11 22:55	2°958'32	0.69038 AU
		18°901'44 12°908'55	0.00040 AU	mm. Earm dist.		2°€058'32 30°R∏	0.07038 AU
morning rise	14772 Jul 02 19:01	12 = 008.33			14773 Jun 13 22:48	30 KTT	

min. Earth dist.	14775 May 10 08:39	2° ∏ 47'28	0.68011 AU	min. Earth dist.	14776 Apr 22 21:47	17° 8 26'00	0.66817 AU
inferior conj	14775 May 10 00:55	1° I I05'44	2°06'22	inferior conj	14776 Apr 24 17:52	15° 8 11'53	1°23'43
minimum elong	14775 May 11 13:47	1° Ⅱ 12'47	2°04'55	minimum elong	14776 Apr 24 16:01	15° 8 17'33	1°22'26
minimum ciong	14775 May 12 12:18	30°R8	2 0133	morning rise	14776 Apr 30 13:23	9° 8 29'36	1 22 20
morning rise	14775 May 17 03:42	25° 8 12'23		direct	14776 May 03 16:28	8° 8 34'32	
direct	14775 May 17 03:42	23° 8 59'02		morning max el	14776 May 10 04:11	12° 8 01'06	18°27'42
morning max el	14775 May 27 17:10	27° 8 47'53	19°13'51	desc. node	14776 May 22 22:16	29° 8 21'37	10 27 42
morning max cr	14775 May 27 17:10	0°Ⅱ	17 13 31	desc. node	14776 May 22 22:10 14776 May 23 08:09	0°Ⅱ	
desc. node	14775 Jun 06 01:23	9° Ⅱ 33'41		morning set	14776 May 30 18:52	11° Ⅱ 42'07	
	14775 Jun 09 12:31	14° Ⅱ 37'36	-0.7m	morning set	14776 Jun 11 10:31	0°95	
greatest brilliancy		14 ш 3/30	-U. /III		14//0 Juli 11 10.51	0 🕹	
	14775 Jun 19 15:24				14776 I 15 14.41	69620140	2000126
morning set	14775 Jun 20 21:40	1°956'27	1 45400 ATT	superior conj	14776 Jun 15 14:41	6°530'49	
max. Earth dist.	14775 Jul 03 23:58	22° © 16'46	1.45409 AU	minimum elong	14776 Jun 15 09:40	6°9511'14	
				max. Earth dist.	14776 Jun 15 19:37	6°\$50'03	1.45915 AU
superior conj	14775 Jul 07 05:23	27°521'43			14776 Jun 30 14:44	0° Ω	
minimum elong	14775 Jul 07 08:06	27° © 32'29	2°13'33	evening rise	14776 Jul 01 10:31	1° Ω 17'52	
	14775 Jul 08 21:20	0 $^{\circ}\Omega$		greatest brilliancy	14776 Jul 10 08:03	15° Ω 15'47	-0.8m
evening rise	14775 Jul 21 19:09	20° Ω 53'01		asc. node	14776 Jul 17 01:07	25° Ω 17'39	
	14775 Jul 27 08:23	0° m)			14776 Jul 20 14:23	0° ™	
asc. node	14775 Jul 31 04:23	6° Mp 10′34		evening max el	14776 Jul 23 07:52	3° Mp 02'28	18°48'06
evening max el	14775 Aug 09 20:00	19° Tp 17'47	18°16'40	retrograde	14776 Jul 29 23:29	6° Mp 40′08	
retrograde	14775 Aug 16 04:48	22° Mp 40'38		evening set	14776 Aug 02 07:25	5° Mg 36'23	
evening set	14775 Aug 19 03:41	21° m 52'55		inferior conj	14776 Aug 07 21:11	29° Ω 54′23	2°44'01
inferior conj	14775 Aug 25 02:07	16° Mp 25′37	2°09'27	minimum elong	14776 Aug 07 23:09	29° Ω 48'15	2°43'04
minimum elong	14775 Aug 25 04:31	16° m) 18'40	2°08'27		14776 Aug 07 19:24	30° ₽ Ω	
min. Earth dist.	14775 Aug 27 11:13	13° m 41'43	0.64317 AU	min. Earth dist.	14776 Aug 09 16:13	27° Ω 39'44	0.66142 AU
morning rise	14775 Aug 31 03:47	10° Mp 06'08		morning rise	14776 Aug 13 13:58	23° Ω 29'09	
desc. node	14775 Sep 01 22:53	8° m 52'09		desc. node	14776 Aug 18 20:23	20° Ω 54'19	
direct	14775 Sep 06 17:30	7° m/30'58		direct	14776 Aug 19 20:42	20° Ω 50′28	
morning max el	14775 Sep 20 10:46	15° m) 29'09	27°30'49	morning max el	14776 Sep 01 22:16	28° Ω 35'19	26°34'19
3	14775 Oct 02 08:55	0∘ <u>⊽</u>			14776 Sep 03 06:52	0° m)	
	14775 Oct 20 20:52	0°M			14776 Sep 25 03:50	0∘ <mark>⊽</mark>	
morning set	14775 Oct 25 15:00	9°M05'57		morning set	14776 Oct 07 18:32	22° ჲ 02'24	
asc. node	14775 Oct 27 06:22	12°M22'26		max. Earth dist.	14776 Oct 11 17:57	29° ₽ 43'42	1.34351 AU
max. Earth dist.	14775 Oct 30 06:19	18°M31'58	1.32745 AU	max. Bartii dist.	14776 Oct 11 21:14	0°M	1.5 1551 110
max. Earth dist.	14775 000 50 00.15	10 1103130	1.52745710	asc. node	14776 Oct 11 21:14 14776 Oct 13 03:02	2°M28'45	
superior conj	14775 Nov 02 16:52	25°M49'56	0°57'12	asc. node	14//0 000 13 03.02	2 11020 43	
minimum elong	14775 Nov 02 14:36	25°M37'42	0°57'36	superior conj	14776 Oct 16 16:02	9° M .43'13	0°32'28
minimum clong	14775 Nov 02 14:30	23 11 3 7 42	0 37 30	minimum elong	14776 Oct 16 14:22	9°M34'36	
ovenina riae		10° ∡ ¹54'58		U	14776 Oct 16 14.22 14776 Oct 24 01:39	25°M18'31	0 32 43
evening rise	14775 Nov 09 16:07 14775 Nov 19 07:47	10 x・3438		evening rise		23 IIL1831 0° X	
					14776 Oct 26 07:51		21000150
desc. node	14775 Nov 28 19:37	13°る58'30	22046140	evening max el	14776 Nov 12 13:08	27° 🗷 26'21	21°09'59
evening max el	14775 Dec 01 21:13	17° 3 16'09	22°46'49	desc. node	14776 Nov 14 16:48	29° ₹ 22'46	
retrograde	14775 Dec 14 22:04	23° 3 43'59		. 1	14776 Nov 15 11:54	0°る	
evening set	14775 Dec 18 20:46	23°る10'03		retrograde	14776 Nov 24 08:54	3°る18'22	
min. Earth dist.	14775 Dec 26 05:54	19° ⋜ 47'36	0.54762 AU	evening set	14776 Nov 27 01:11	3° る 01'33	
inferior conj	14775 Dec 27 06:09	19° ප 13'13			14776 Dec 04 09:08	30°₽ ⋌ 7	
minimum elong							
morning rise	14775 Dec 27 06:57	19° る 12'05	5°58'42	inferior conj	14776 Dec 05 21:19	29° х 09′17	
	14776 Jan 04 18:28	15° る 24'57	5°58'42	minimum elong	14776 Dec 05 21:19 14776 Dec 05 13:31	29° ∡ ¹20'17	5°32'27
direct	14776 Jan 04 18:28 14776 Jan 07 20:05	15° පි 24'57 15° පි 03'17		minimum elong min. Earth dist.	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38	29° х 20'17 28° х 49'01	
direct morning max el	14776 Jan 04 18:28	15°පි24'57 15°පි03'17 20°පි37'02		minimum elong	14776 Dec 05 21:19 14776 Dec 05 13:31	29° ₹20'17 28° ₹49'01 25° ₹18'23	5°32'27
	14776 Jan 04 18:28 14776 Jan 07 20:05	15° පි 24'57 15° පි 03'17		minimum elong min. Earth dist.	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38	29° 🖈 20'17 28° 🖈 49'01 25° 🖈 18'23 24° 🖈 43'10	5°32'27
morning max el	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18	15°පි24'57 15°පි03'17 20°පි37'02		minimum elong min. Earth dist. morning rise	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16	29°メ20'17 28°メ49'01 25°メ18'23 24°メ43'10 0°る	5°32'27
morning max el	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46	15° පි24'57 15° පි03'17 20° පි37'02 24° පි49'56		minimum elong min. Earth dist. morning rise	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18	29° 🖈 20'17 28° 🖈 49'01 25° 🖈 18'23 24° 🖈 43'10	5°32'27
morning max el asc. node	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05	15° ට 24'57 15° ට 03'17 20°ට37'02 24°ට49'56 0°≋		minimum elong min. Earth dist. morning rise direct	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05	29°メ20'17 28°メ49'01 25°メ18'23 24°メ43'10 0°る	5°32'27 0.54454 AU
morning max el asc. node	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12		minimum elong min. Earth dist. morning rise direct morning max el	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{18'23} 24° \$\frac{7}{43'10} 0° \$\frac{7}{59'07}	5°32'27 0.54454 AU
morning max el asc. node	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12		minimum elong min. Earth dist. morning rise direct morning max el	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03	29° 🗷 20'17 28° 🗷 49'01 25° 🗷 18'23 24° 🗷 43'10 0° で 0° で559'07 12° で11'34	5°32'27 0.54454 AU
morning max el asc. node morning set	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49	15°♂24'57 15°♂03'17 20°♂37'02 24°♂49'56 0°≈ 22°≈24'12 0°¥	21°05'01	minimum elong min. Earth dist. morning rise direct morning max el asc. node	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28	29° ₹20'17 28° ₹49'01 25° ₹18'23 24° ₹43'10 0° ₹ 0° ₹59'07 12° ₹311'34 0° ≈	5°32'27 0.54454 AU
morning max el asc. node morning set superior conj	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49	15°♂24'57 15°♂03'17 20°♂37'02 24°♂49'56 0°≈ 22°≈24'12 0°⊁ 7°¥44'17	21°05'01 1°12'40	minimum elong min. Earth dist. morning rise direct morning max el asc. node	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28	29° ₹20'17 28° ₹49'01 25° ₹18'23 24° ₹43'10 0° ₹ 0° ₹59'07 12° ₹311'34 0° ≈	5°32'27 0.54454 AU
morning max el asc. node morning set superior conj minimum elong	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28	15°♂24'57 15°♂03'17 20°♂37'02 24°♂49'56 0°≈ 22°≈24'12 0°\ 7°\\$44'17 7°\\$57'23	21°05'01 1°12'40 1°12'48	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{18'23} 24° \$\frac{7}{43'10} 0° \$\frac{7}{59'07} 12° \$\frac{7}{11'34} 0° \$\approx 7° \$\approx 09'48	5°32'27 0.54454 AU 22°47'20
morning max el asc. node morning set superior conj minimum elong max. Earth dist.	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28 14776 Feb 20 06:05	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12 0°¥ 7°¥44'17 7°¥57'23 17°¥34'28	21°05'01 1°12'40 1°12'48	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{18'23} 24° \$\frac{7}{43'10} 0° \$\frac{7}{59'07} 12° \$\frac{7}{11'34} 0° \$\approx 7° \$\approx 09'48 22° \$\approx 08'10	5°32'27 0.54454 AU 22°47'20 1°27'25
morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28 14776 Feb 20 06:05 14776 Feb 24 05:43	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12 0°光 7°米44'17 7°米57'23 17°米34'28 25°米12'37	21°05'01 1°12'40 1°12'48	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{43'10} 0° \$\frac{7}{3} 0° \$\frac{7}{59'07} 12° \$\frac{7}{311'34} 0° \$\approx 7° \$\approx 09'48 22° \$\approx 08'10 22° \$\approx 18'17	5°32'27 0.54454 AU 22°47'20 1°27'25 1°27'56
morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28 14776 Feb 20 06:05 14776 Feb 24 05:43 14776 Feb 24 20:18	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12 0°¥ 7°¥44'17 7°¥57'23 17°¥34'28 25°¥12'37 26°¥20'30	21°05'01 1°12'40 1°12'48	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05 14777 Jan 29 11:13 14777 Jan 29 13:06 14777 Feb 01 22:07	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{43'10} 0° \$\frac{7}{60'00} 0° \$\frac{7}{60'00} 12° \$\frac{7}{60'00} 12° \$\frac{7}{60'00} 22° \$\approx 18'17 29° \$\approx 25'04	5°32'27 0.54454 AU 22°47'20 1°27'25 1°27'56
morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28 14776 Feb 20 06:05 14776 Feb 24 05:43 14776 Feb 24 20:18 14776 Feb 26 20:18	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12 0° 米 7° ¥44'17 7° ¥57'23 17° ¥34'28 25° ¥12'37 26° ¥20'30 0° Ŷ	21°05'01 1°12'40 1°12'48	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05 14777 Jan 29 11:13 14777 Jan 29 13:06 14777 Feb 01 22:07 14777 Feb 02 04:52	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{49'01} 25° \$\frac{7}{49'10} 0° \$\frac{7}{60'10} 0° \$\frac{7}{60'10} 12° \$\frac{7}{60'10} 22° \$\approx 18'17 29° \$\approx 25'04 0° \$\frac{7}{60'10}	5°32'27 0.54454 AU 22°47'20 1°27'25 1°27'56
morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28 14776 Feb 20 06:05 14776 Feb 24 05:43 14776 Feb 26 20:18 14776 Feb 26 20:18 14776 Mar 16 15:31	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12 0° ¥ 7° ¥44'17 7° ¥57'23 17° ¥34'28 25° ¥12'37 26° ¥20'30 0° ♀	21°05'01 1°12'40 1°12'48 1.35421 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	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05 14777 Jan 29 11:13 14777 Jan 29 13:06 14777 Feb 01 22:07 14777 Feb 02 04:52 14777 Feb 06 11:48	29° \$\frac{7}{20'17} 28° \$\frac{7}{49'01} 25° \$\frac{7}{49'01} 25° \$\frac{7}{43'10} 0° \$\frac{7}{60'07} 12° \$\frac{7}{511'34} 0° \$\approx 7° \$\approx 09'48 22° \$\approx 18'17 29° \$\approx 25'04 0° \$\frac{7}{8}\$ \$\frac{7}{38'25}	5°32'27 0.54454 AU 22°47'20 1°27'25 1°27'56
morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 15 11:28 14776 Feb 20 06:05 14776 Feb 24 20:18 14776 Feb 26 20:18 14776 Mar 16 15:31 14776 Mar 30 14:04	15°る24'57 15°る03'17 20°る37'02 24°る49'56 0°≈ 22°≈24'12 0° ¥ 7° ¥44'17 7° ¥57'23 17° ¥34'28 25° ¥12'37 26° ¥20'30 0° ♀ 0° ¥ 16° ¥49'56	21°05'01 1°12'40 1°12'48 1.35421 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	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05 14777 Jan 29 11:13 14777 Jan 29 13:06 14777 Feb 01 22:07 14777 Feb 02 04:52 14777 Feb 06 11:48 14777 Feb 10 16:53	29° ₹20'17 28° ₹49'01 25° ₹18'23 24° ₹43'10 0° ₹59'07 12° ₹511'34 0° ≈ 7° ≈09'48 22° ≈08'10 22° ≈18'17 29° ≈25'04 0° ₩ 8° ¥38'25 16° ¥38'56	5°32'27 0.54454 AU 22°47'20 1°27'25 1°27'56
morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	14776 Jan 04 18:28 14776 Jan 07 20:05 14776 Jan 19 10:18 14776 Jan 23 05:46 14776 Jan 26 23:05 14776 Feb 08 00:47 14776 Feb 11 15:49 14776 Feb 15 08:56 14776 Feb 20 06:05 14776 Feb 24 05:43 14776 Feb 24 20:18 14776 Feb 26 20:18 14776 Mar 16 15:31 14776 Mar 30 14:04 14776 Apr 12 12:37	15°♂24'57 15°♂03'17 20°♂37'02 24°♂49'56 0°≈ 22°≈24'12 0° ¥ 7° ¥44'17 7° ¥57'23 17° ¥34'28 25° ¥12'37 26° ¥20'30 0° ¥ 0° ¥ 16°♂49'56 24°♂11'38	21°05'01 1°12'40 1°12'48 1.35421 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	14776 Dec 05 21:19 14776 Dec 05 13:31 14776 Dec 06 11:38 14776 Dec 14 02:16 14776 Dec 18 03:18 14776 Dec 30 00:05 14776 Dec 31 02:02 14777 Jan 09 03:03 14777 Jan 19 01:28 14777 Jan 22 12:05 14777 Jan 29 11:13 14777 Jan 29 13:06 14777 Feb 01 22:07 14777 Feb 02 04:52 14777 Feb 06 11:48 14777 Feb 10 16:53 14777 Feb 18 08:50	29° ₹20'17 28° ₹49'01 25° ₹18'23 24° ₹43'10 0° ₹ 0° ₹59'07 12° ₹11'34 0° ≈ 7° ≈09'48 22° ≈08'10 22° ≈18'17 29° ≈25'04 0° ₩ 8° ₩38'25 16° ₩38'56 0° ♥	5°32'27 0.54454 AU 22°47'20 1°27'25 1°27'56 1.33626 AU

						0.00	
retrograde	14777 Mar 26 15:43	7° 8 55'47			14778 Feb 12 03:31	0°Υ 122 0 02 (112	
evening set	14777 Apr 02 06:56	5° 8 24'34	0.65000 444	evening max el	14778 Feb 23 15:43	13° Y 36'43	27°34'11
min. Earth dist.	14777 Apr 06 04:19	1° 8 43'36	0.65223 AU	retrograde	14778 Mar 09 11:48	21°Υ°05'00	
asc. node	14777 Apr 06 23:46	0° 8 50'00		evening set	14778 Mar 16 07:46	18° Y 41'48	0.62202.433
	14777 Apr 07 17:35	30° ₹ Υ	0000101	min. Earth dist.	14778 Mar 20 02:21	15° Y 29'32	0.63292 AU
inferior conj	14777 Apr 08 12:45	29°Υ06'05	0°29'01	inferior conj	14778 Mar 22 21:42	12° Υ '40'29	
minimum elong	14777 Apr 08 11:58	29° Y ′08'17	0°28'19	minimum elong	14778 Mar 22 22:56	12° Y 37'22	0°37'52
morning rise	14777 Apr 14 18:44	23° Y 36'36		asc. node	14778 Mar 24 21:13	10° Y 44'34	
direct	14777 Apr 17 12:14	22° Y ′57'01		morning rise	14778 Mar 29 16:39	7° Y ′26′12	
morning max el	14777 Apr 23 19:57	26° Y 13′53	17°58'22	direct	14778 Apr 01 01:58	6° Y 58'38	
	14777 Apr 27 03:18	0° 8		morning max el	14778 Apr 07 13:39	10° Y 17'15	17°46'24
desc. node	14777 May 09 19:03	19° 8 28'41			14778 Apr 20 22:38	0° 8	
morning set	14777 May 11 19:28	22° 8 47'26		morning set	14778 Apr 23 22:12	5° 8 07'25	
	14777 May 16 05:12	Π $^{\circ}0$		desc. node	14778 Apr 26 15:43	9° 8 48'50	
	14777 M 26 02 22	1.50\T.55120	1047102		14770 M 07 10 04	2/0	1012107
superior conj	14777 May 26 03:23	15° Ⅱ 55'28		superior conj	14778 May 06 10:04	26° 8 12'13	
minimum elong	14777 May 25 18:30	15° Ⅱ 20′20		minimum elong	14778 May 06 03:04	25° 8 43'32	1°11'59
max. Earth dist.	14777 May 29 15:30	21° Ⅱ 26′24	1.45672 AU		14778 May 08 18:00	0°П	
	14777 Jun 04 03:23	0° ©		max. Earth dist.	14778 May 12 09:50	5° Ⅱ 52'31	1.44712 AU
evening rise	14777 Jun 11 04:56	10°953'52		evening rise	14778 May 21 15:43	20° Ⅱ 18'24	
	14777 Jun 23 19:12	0 ° Ω			14778 May 28 01:03	0₀ ௐ	
greatest brilliancy	14777 Jun 24 22:06	1° Ω 39'03	-0.7m		14778 Jun 18 23:02	0 ° Ω	
asc. node	14777 Jul 03 21:57	13° Ω 53'38		evening max el	14778 Jun 19 16:20	0° Ω 44'20	20°38'42
evening max el	14777 Jul 06 15:01	16° Ω 52'29	19°36'05	asc. node	14778 Jun 20 18:51	1° Ω 47'53	
retrograde	14777 Jul 13 21:29	20° Ω 57'16		retrograde	14778 Jun 27 20:27	5° Ω 26′17	
evening set	14777 Jul 17 15:05	19° Ω 36′24		evening set	14778 Jul 02 00:26	3° Ω 48′05	
inferior conj	14777 Jul 22 23:29	13° Ω 41'18	3°03'34		14778 Jul 05 13:16	30° ₹ 🥯	
minimum elong	14777 Jul 23 00:35	13° Ω 37'39	3°02'40	inferior conj	14778 Jul 07 06:24	27° © 41'10	3°10'24
min. Earth dist.	14777 Jul 24 04:20	12° Ω 05′24	0.67558 AU	minimum elong	14778 Jul 07 06:30	27° 5 40'49	3°09'27
morning rise	14777 Jul 28 09:35	7° Ω 16′10		min. Earth dist.	14778 Jul 07 21:24	26° 5 49'24	0.68513 AU
direct	14777 Aug 03 06:27	4° Ω 42'27		morning rise	14778 Jul 12 12:16	21° © 19'56	
desc. node	14777 Aug 05 17:51	5° Ω 05'52		direct	14778 Jul 17 21:29	18° © 58'20	
morning max el	14777 Aug 15 09:11	11° Ω 57'59	25°17'24	desc. node	14778 Jul 23 15:13	21° © 03'50	
	14777 Aug 29 20:55	0° m ∕		morning max el	14778 Jul 28 19:42	25° © 30'05	23°49'54
	14777 Sep 17 20:39	0∘ ত			14778 Aug 01 21:56	$0^{\circ}\Omega$	
morning set	14777 Sep 20 06:44	4° ₽ 17'07			14778 Aug 23 08:37	O° m y	
max. Earth dist.	14777 Sep 23 20:16	10° ≏ 48'12	1.36415 AU	morning set	14778 Sep 01 23:14	15° m 39'40	
asc. node	14777 Sep 29 23:39	22° ₽ 37'27		max. Earth dist.	14778 Sep 05 18:28	22° Mp 14'31	1.38758 AU
					14778 Sep 10 02:03	0∘ ⊽	
superior conj	14777 Sep 30 05:59	23° ₽ 08'51	0°02'27				
minimum elong	14777 Sep 30 05:49	23° ഫ 08'01	0°02'42	superior conj	14778 Sep 13 07:09	5° ≏ 58'35	-0°31'44
behind sun begin	14777 Sep 29 23:30	22° ₽ 36'43		minimum elong	14778 Sep 13 09:25	6° ≏ 09'17	0°31'20
behind sun end	14777 Sep 30 12:07	23° £ 39'23		asc. node	14778 Sep 16 20:13	12° ≏ 45'10	
	14777 Oct 03 15:45	0° M		evening rise	14778 Sep 22 07:26	23° ≏ 26′20	
evening rise	14777 Oct 08 07:38	9° ™ 31'05			14778 Sep 25 16:35	0° M ₊	
	14777 Oct 19 07:58	0° ∡ 7		evening max el	14778 Oct 08 14:02	20°M00'25	18°53'40
evening max el	14777 Oct 25 18:35	8° ∤ 18'14	19°50'51	retrograde	14778 Oct 17 05:02	24°M20'50	
desc. node	14777 Nov 01 14:06	12° ∡ ′50′28		evening set	14778 Oct 19 02:15	24°M09'13	
retrograde	14777 Nov 04 23:15	13° ∡ °23′16		desc. node	14778 Oct 19 11:29	24°M04'05	
evening set	14777 Nov 06 22:57	13° ∡ 12'34		inferior conj	14778 Oct 27 08:41	19° M 50'36	-2°30'20
inferior conj	14777 Nov 15 18:13	9° ∡ 12′08	-4°15'29	minimum elong	14778 Oct 27 02:26	20°M01'41	2°27'11
minimum elong	14777 Nov 15 08:19	9° × 727'21	4°11'31	min. Earth dist.	14778 Oct 30 07:52	17° ጤ 44'53	0.56574 AU
min. Earth dist.	14777 Nov 17 19:29	7° ∡ 56′25	0.55101 AU	morning rise	14778 Nov 03 23:37	15° M ₀02'26	
morning rise	14777 Nov 23 16:14	4° ∡ ¹58'57		direct	14778 Nov 09 18:55	13°ML42'19	
direct	14777 Nov 28 16:33	4° ₺ 03'39		morning max el	14778 Nov 23 22:53	21°M00'10	26°15'03
morning max el	14777 Dec 12 11:12	10° ∡ 754'41	24°36'51		14778 Dec 01 18:21	0° ∡ ¹	
	14777 Dec 26 18:26	ರ∘ರ		asc. node	14778 Dec 13 21:19	19° ∡ 16'46	
asc. node	14777 Dec 27 00:14	0° る 24'44			14778 Dec 19 09:06	0°₹	
morning set	14778 Jan 07 00:01	21° る 52'35		morning set	14778 Dec 22 10:53	6° පි 28'18	
	14778 Jan 10 17:25	0° ≈					
				superior conj	14778 Dec 29 05:10	21° る 23'45	
superior conj	14778 Jan 13 18:41	6° ≈ 43'19	1°35'44	minimum elong	14778 Dec 29 05:01		1°38'54
minimum elong	14778 Jan 13 19:37	6° ≈ 48′22	1°36'34	max. Earth dist.	14778 Dec 30 03:13	23° る 26'27	1.31429 AU
max. Earth dist.	14778 Jan 15 21:42	11° ≈ 21'30	1.32277 AU		14779 Jan 02 02:39	0° ≈	
evening rise	14778 Jan 21 04:26	22° ≈ 28'54		evening rise	14779 Jan 05 04:52	6° ≈ 37'31	
	14778 Jan 24 23:27	0° ∀		desc. node	14779 Jan 15 10:11	26° ≈ 24'29	
desc. node	14778 Jan 28 13:30	6°) 42′18			14779 Jan 17 12:10	0° ∀	

evening rise	14780 Dec 03 20:06	5° る 26'09			14781 Nov 23 02:41	ი∘ჳ	
evening rise	14780 Dec 16 13:26	0°≈		desc. node	14781 Dec 06 00:56	21° る 45'34	
desc. node	14780 Dec 19 03:54	4°≈09'23		evening max el	14781 Dec 12 05:56	28°る53'50	23°46'16
evening max el	14780 Dec 30 19:14	18° ≈ 43'49	25°24'13	evening max er	14781 Dec 13 10:37	0°≈	23 40 10
retrograde	14781 Jan 13 16:04	25°≈42'20	20 2110	retrograde	14781 Dec 25 17:42	5°≈35'45	
evening set	14781 Jan 19 11:55	24° ≈ 24'57		evening set	14781 Dec 30 10:41	4° ≈ 47'37	
min. Earth dist.	14781 Jan 24 07:37	21° ≈ 44'20	0.56894 AU	min. Earth dist.	14782 Jan 05 17:06		0.55334 AU
inferior conj	14781 Jan 27 02:28	19° ≈ 52'47		inferior conj	14782 Jan 07 12:22	0° ≈ 41'31	
minimum elong	14781 Jan 27 11:35	19° ≈ 37'32	4°44'09	minimum elong	14782 Jan 07 17:56	0° ≈ 33'15	
morning rise	14781 Feb 04 13:57	15° ≈ 39'49		8	14782 Jan 08 16:32	30°Ŗる	
direct	14781 Feb 06 16:28	15° ≈ 26'42		morning rise	14782 Jan 16 02:53	26° る 46'29	
asc. node	14781 Feb 12 13:33	17° ≈ 16'22		direct	14782 Jan 18 17:05	26° る 29'45	
morning max el	14781 Feb 15 20:18	19° ≈ 54'24	19°04'51		14782 Jan 27 13:04	0° ≈	
S	14781 Feb 23 10:29	0° ∀		morning max el	14782 Jan 29 10:02	1° ≈ 39'05	20°14'31
morning set	14781 Mar 04 10:24	16° ¥ 41'01		asc. node	14782 Jan 30 10:56	2° ≈ 41'57	
S	14781 Mar 11 04:32	$0^{\circ}\Upsilon$			14782 Feb 16 01:20	0°) €	
				morning set	14782 Feb 16 16:30	1°) 17′21	
superior conj	14781 Mar 12 19:56	3° Y 10'01	0°35'47	C			
minimum elong	14781 Mar 12 22:02	3° Y ′20'05	0°35'30	superior conj	14782 Feb 24 08:11	16°) € 57'34	1°01'08
desc. node	14781 Mar 17 05:23	11° Y 25'01		minimum elong	14782 Feb 24 10:50	17° ¥ 10′52	1°01'04
max. Earth dist.	14781 Mar 19 17:41	15° Ƴ 58'25	1.38841 AU	max. Earth dist.	14782 Mar 02 00:25	28° ¥ 04'10	1.36611 AU
evening rise	14781 Mar 23 12:32	22° Y '36'55			14782 Mar 03 00:59	0° Υ	
C	14781 Mar 27 21:58	0°B		desc. node	14782 Mar 04 01:55	1° Y 56'11	
	14781 Apr 17 03:53	Π°		evening rise	14782 Mar 05 19:12	5° Ƴ 05'17	
evening max el	14781 Apr 27 17:13	12° Ⅲ 22'12	24°33'24	-	14782 Mar 20 20:04	0°B	
retrograde	14781 May 09 07:11	19° Ⅱ 08'43		evening max el	14782 Apr 10 06:46	26° 8 14'47	25°47'16
asc. node	14781 May 11 10:12	18° Ⅱ 49'10		C	14782 Apr 14 13:51	$\Pi^{\circ}0$	
evening set	14781 May 14 21:12	16° Ⅲ 47'11		retrograde	14782 Apr 22 19:15	3° Ⅲ 27′08	
min. Earth dist.	14781 May 19 09:41	11° Ⅲ 37′23	0.68492 AU	asc. node	14782 Apr 28 07:31	1° Ⅲ 23'23	
inferior conj	14781 May 20 09:43	10° Ⅱ 17'00	2°25'47	evening set	14782 Apr 28 20:16	0° Ⅱ 57'49	
minimum elong	14781 May 20 07:38	10° Ⅲ 23'58	2°24'22	C	14782 Apr 29 21:43	30° ₹ 8	
morning rise	14781 May 25 18:14	4° Ⅱ 17'59		min. Earth dist.	14782 May 03 01:53	26° 8 23'49	0.67550 AU
direct	14781 May 29 14:26	2° I I53'30		inferior conj	14782 May 04 14:35	24° 8 27'26	1°49'41
morning max el	14781 Jun 06 00:51	7° Ⅱ 01'37	19°47'43	minimum elong	14782 May 04 12:29	24° 8 34'09	1°48'17
desc. node	14781 Jun 13 06:42	15° Ⅱ 42'50		morning rise	14782 May 10 05:17	18° 8 38'21	
	14781 Jun 23 04:54	0°ಲ		direct	14782 May 13 14:20	17° 8 33'05	
morning set	14781 Jul 02 12:33	14°908'10		morning max el	14782 May 20 08:03	21° 8 11'12	18°52'08
C	14781 Jul 12 17:20	$0^{\circ}\Omega$		C	14782 May 27 12:17	$\Pi^{\circ}0$	
max. Earth dist.	14781 Jul 13 14:40		1.44782 AU	desc. node	14782 May 31 03:39	5° Ⅱ 16'25	
				greatest brilliancy	14782 Jun 02 22:10	9° Ⅲ 26'32	-0.8m
superior conj	14781 Jul 18 12:53	9° Ω 16′08	-2°05'31	morning set	14782 Jun 11 21:41	23° Ⅱ 17′02	
minimum elong	14781 Jul 18 18:54	9° Ω 40'23	2°06'04	C	14782 Jun 16 05:27	0° ©	
· ·	14781 Jul 31 02:00	0° m)		max. Earth dist.	14782 Jun 26 08:18	15° © 45'39	1.45712 AU
evening rise	14781 Aug 01 03:19	1° Mp 46'59					
asc. node	14781 Aug 07 09:57	12° m) 21'22		superior conj	14782 Jun 28 04:11	18° © 37'22	-2°13'50
evening max el	14781 Aug 18 22:41	28° m 49'02	18°06'29	minimum elong	14782 Jun 28 03:37	18° © 35'09	2°14'49
C	14781 Aug 20 06:05	0∘ <u>v</u>		Ü	14782 Jul 05 09:21	$0^{\circ}\Omega$	
retrograde	14781 Aug 25 07:43	2° ഫ 09'28		evening rise	14782 Jul 13 08:58	12° Ω 46'45	
evening set	14781 Aug 28 01:29	1° ഫ 30'23		C	14782 Jul 24 03:49	0° ™	
C	14781 Aug 30 09:38	30°R, Mp		asc. node	14782 Jul 25 06:39	1° m) 42'25	
inferior conj	14781 Sep 03 06:33	26° m) 12'40	1°41'32	evening max el	14782 Aug 02 12:25	12° m)28'31	18°28'01
minimum elong	14781 Sep 03 08:52	26° Mp 06'24	1°40'39	retrograde	14782 Aug 08 23:02	15° m 55'50	
min. Earth dist.	14781 Sep 05 23:18	23° m/ 17'48	0.63117 AU	evening set	14782 Aug 12 01:45	15° m 01'30	
desc. node	14781 Sep 09 03:55	20° m 19'23		inferior conj	14782 Aug 17 20:05	9° m)28'01	2°26'05
morning rise	14781 Sep 09 14:08	19° m 59'42		minimum elong	14782 Aug 17 22:22	9° my 21'10	2°25'06
direct	14781 Sep 16 06:01	17° m ₂ 30'19		min. Earth dist.	14782 Aug 19 23:23	6° m 54'55	0.65140 AU
morning max el	14781 Sep 30 05:31	25° m/31'06	27°50'21	morning rise	14782 Aug 23 17:45	3° Mp 05'26	-
5	14781 Oct 04 08:38	0∘ ⊽		desc. node	14782 Aug 27 01:27	1° Mp 03'48	
	14781 Oct 24 19:14	0°M		direct	14782 Aug 30 05:07	0° m/27'22	
asc. node	14781 Nov 03 11:54	18°M12'13		morning max el	14782 Sep 12 16:16		27°09'49
morning set	14781 Nov 03 18:30	18°M45'30		<i>5</i>	14782 Sep 29 13:06	0∘ ⊽	
max. Earth dist.	14781 Nov 08 19:48	29°M17'33	1.32055 AU		14782 Oct 17 03:47	0° ™	
diot.	14781 Nov 09 03:43	0° ⊼	500 110	morning set	14782 Oct 17 05:47	2°ML01'47	
		~ *:		asc. node	14782 Oct 21 08:36	8°M15'25	
superior conj	14781 Nov 11 11:28	5° × ′02'04	1°08'52	max. Earth dist.	14782 Oct 22 13:00	10°M39'35	1.33366 AU
minimum elong	14781 Nov 11 09:10	4°×7'49'30	1°09'23				
evening rise	14781 Nov 18 07:00	19° х 56'32		superior conj	14782 Oct 26 14:35	19°M08'20	0°47'26
		7. 0002			52 340 20 11.55	1100020	- -

morning max el

14784 Aug 07 14:20 14784 Aug 26 20:24 5°**Ω**03'07 24°41'02

0° m

14783 Oct 09 00:31

0°M

	14796 Ind. 24 12:14	0.0		mamina may al	14797 Jun 16 10:47	160π16100	20026124
morning set	14786 Jul 24 12:14 14786 Aug 04 20:02	0° Ω 17° Ω 25'07		morning max el desc. node	14787 Jun 16 10:47 14787 Jun 21 12:02	16° Ⅱ 16'08 22° Ⅱ 01'21	20°26'34
max. Earth dist.	14786 Aug 10 21:26	$27^{\circ}\Omega 13'56$	1.42043 AU	desc. Hode	14787 Jun 27 10:50	0°95	
max. Earth dist.	14786 Aug 10 21:26	0° m)	1.42043 AU	morning set	14787 Jul 15 05:21	26°\$25'34	
	14700 Aug 12 13.20	עוו ט		morning set	14787 Jul 17 12:40	0°Ω	
superior conj	14786 Aug 18 13:00	10° mp 12'11	-1°22'28	max. Earth dist.	14787 Jul 24 07:06		1.43949 AU
minimum elong	14786 Aug 18 19:26	10° m/40'13	1°22'03	man. Burur uist.	11,0,041 21 0,.00	10 0011 10	1.155 15 110
asc. node	14786 Aug 28 18:57	28° m/36'14	1 22 03	superior conj	14787 Jul 30 13:39	20° Ω 53'37	-1°52'58
evening rise	14786 Aug 29 10:38	29° mp 48'07		minimum elong	14787 Jul 30 21:07	21° Ω 24'27	
<i>8</i> 11	14786 Aug 29 13:13	0∘ <u>⊽</u>			14787 Aug 05 00:04	0° m)	
evening max el	14786 Sep 14 11:30	25° ≏ 14'16	18°09'24	evening rise	14787 Aug 12 03:31	12° m) 18'57	
retrograde	14786 Sep 21 13:01	28° ჲ 50'39		asc. node	14787 Aug 15 15:32	18° m 24'19	
evening set	14786 Sep 23 17:59	28° ₽ 30'00			14787 Aug 22 14:41	0∘ ⊽	
desc. node	14786 Sep 30 11:27	24° ₽ 07'03		evening max el	14787 Aug 29 01:11	8° ≏ 24'48	18°02'11
inferior conj	14786 Sep 30 23:02	23° ≏ 41'32	-0°09'06	retrograde	14787 Sep 04 13:14	11° ≏ 47'04	
minimum elong	14786 Sep 30 22:43	23° ≙ 42'13	0°08'40	evening set	14787 Sep 07 02:14	11° ≙ 15′27	
transit middle	14786 Sep 30 22:43	23° ≏ 42'13	0°08'40	inferior conj	14787 Sep 13 15:04	6° ჲ 07'27	1°07'11
transit begin	14786 Sep 30 19:52	23° ≏ 48'32		minimum elong	14787 Sep 13 16:53	6° ჲ 02'50	1°06'33
transit end	14786 Oct 01 01:35	23° ≏ 35'52		min. Earth dist.	14787 Sep 16 14:12	3° ഫ 08'07	0.61845 AU
min. Earth dist.	14786 Oct 04 05:19	20° ≏ 49'33	0.59548 AU	desc. node	14787 Sep 17 08:58	2° ჲ 23'39	
morning rise	14786 Oct 08 00:08	18° ഫ 03'22		morning rise	14787 Sep 20 04:58	0° ჲ 04'23	
direct	14786 Oct 14 12:22	16° ≏ 05'11			14787 Sep 20 07:31	30°R, Mp	
morning max el	14786 Oct 28 19:18	23° ≏ 51'52	27°43'24	direct	14787 Sep 26 21:10	27° m 44'31	
	14786 Nov 03 08:40	0° ™			14787 Oct 03 23:36	0∘ ত	
	14786 Nov 22 15:05	0° ∡ ¹		morning max el	14787 Oct 11 00:44	5° Ω 42'05	27°58'47
asc. node	14786 Nov 24 20:35	4° ⋌ 16'55			14787 Oct 29 08:53	0° ™	
morning set	14786 Nov 29 18:08	14° ∡ 15'50		asc. node	14787 Nov 11 17:25	24°M03'40	
max. Earth dist.	14786 Dec 06 01:23	28° ∡ 01'22	1.31118 AU	morning set	14787 Nov 13 18:44	28°M13'57	
	1450(D 0(10.05	200 7250	1020111	P. 4 P.	14787 Nov 14 15:13	0° ∡¹	101556 177
superior conj	14786 Dec 06 18:37	29° 🗷 37'38	1°30'44	max. Earth dist.	14787 Nov 19 06:34	9° ₹ 55'20	1.31556 AU
minimum elong	14786 Dec 06 17:06	29° ₹ 29'10	1°31'38		14707 N 21 04 27	1.40 707125	1010124
	14786 Dec 06 22:38	0°궁 14°궁27'26		superior conj	14787 Nov 21 04:27	14° ₹ 07'35	1°18'34
evening rise	14786 Dec 13 11:34 14786 Dec 21 03:36	0°≈		minimum elong	14787 Nov 21 02:18	13° ₹ 55'45 28° ₹ 56'36	1°19'13
desc. node	14786 Dec 27 09:17	0°≈ 10°≈55'54		evening rise	14787 Nov 27 21:47 14787 Nov 28 09:33	28° X '30'30	
evening max el	14786 Dec 27 09.17 14787 Jan 11 00:51	10 ≈33 34 29°≈56'46	26°11'45	desc. node	14787 Dec 14 06:15	0 3 29° ろ 05'59	
evening max er	14787 Jan 11 00:31	29 ≈3040 0°)	20 1143	desc. Hode	14787 Dec 14 00:13	29 3 03 39 0° ≈	
retrograde	14787 Jan 24 23:51	7° ∺ 01'37		evening max el	14787 Dec 23 15:01	0 ∞ 10°≈27'42	24°44'18
evening set	14787 Jan 31 06:20	5° ∺ 28'06		retrograde	14788 Jan 06 08:39	10 ∞27 42 17°≈19'19	24 44 10
min. Earth dist.	14787 Feb 04 14:13		0.58029 AU	evening set	14788 Jan 11 18:30	16°≈14'34	
inferior conj	14787 Feb 07 15:52	0°) (37'32		min. Earth dist.	14788 Jan 17 02:50	13° ≈ 27'30	0.56160 AU
minimum elong	14787 Feb 08 00:27	0° ¥ 21'55		inferior conj	14788 Jan 19 13:25	11° ≈ 55'09	
	14787 Feb 08 12:38	30°R ≈		minimum elong	14788 Jan 19 21:49	11° ≈ 41'52	
morning rise	14787 Feb 15 21:38	26°≈11'37		morning rise	14788 Jan 28 03:19	7° ≈ 50'32	
direct	14787 Feb 17 21:49	25° ≈ 58'19		direct	14788 Jan 30 09:47	7° ≈ 36'25	
asc. node	14787 Feb 20 18:39	26° ≈ 26'55		asc. node	14788 Feb 07 16:04	10° ≈ 58'57	
	14787 Feb 26 04:38	0°)		morning max el	14788 Feb 09 04:34	12° ≈ 20'48	19°31'36
morning max el	14787 Feb 26 07:03	0° ∺ 05'52	18°35'08		14788 Feb 21 04:02	0° ∀	
morning set	14787 Mar 14 06:46	25°) 43′32		morning set	14788 Feb 26 09:31	10°) 12'43	
	14787 Mar 16 11:51	0° Y					
				superior conj	14788 Mar 05 10:39	26° ∺ 18'14	
superior conj	14787 Mar 23 05:37	12° Y ′49'30	0°18'13	minimum elong	14788 Mar 05 13:06	26° ¥ 30′17	0°47'08
minimum elong	14787 Mar 23 06:51	12° Y ′55′13	0°17'53		14788 Mar 07 08:21	0° Υ	
desc. node	14787 Mar 25 11:01	16° Y ′55'21		desc. node	14788 Mar 11 07:33	7° Y ′28'44	
max. Earth dist.	14787 Mar 30 14:35	26° Y ′05′10	1.40160 AU	max. Earth dist.	14788 Mar 11 21:11	8° Y 31′26	1.37881 AU
	14787 Apr 01 21:16	0° 8		evening rise	14788 Mar 15 13:57	15° Y 10′04	
evening rise	14787 Apr 03 17:58	3° 8 08'15			14788 Mar 24 10:28	8°0	
	14787 Apr 21 03:13	0°Ⅱ 210Ⅲ42107	22045122		14788 Apr 14 19:40	0°Ⅱ 5°Ⅲ27/21	25007102
evening max el	14787 May 08 10:15	21° Ⅱ 43'07	23°47'32	evening max el	14788 Apr 19 23:50	5° ∏ 37′21	25°06'02
retrograde	14787 May 19 09:01	28° Ⅱ 08'43		retrograde	14788 May 01 23:42	12° ∏ 35'39	
asc. node	14787 May 19 15:24	28° Ⅱ 08'24		asc. node	14788 May 05 12:40	11° Ⅱ 42'35	
evening set	14787 May 24 16:27	25° Ⅱ 53'47	0.60022 ATT	evening set	14788 May 07 18:38	10° Ⅱ 10'08	0.60152 411
min. Earth dist.	14787 May 29 09:44	20°∏22'59	0.68832 AU	min. Earth dist.	14788 May 12 04:01	5°Ⅱ15'57	0.68153 AU
inferior conj minimum elong	14787 May 30 02:22 14787 May 30 00:31	19° Ⅲ 26′09 19° Ⅲ 32′29	2°41'37 2°40'17	inferior conj minimum elong	14788 May 13 09:28 14788 May 13 07:19	3°П39'28 3°П46'33	2°11'49 2°10'23
morning rise	14787 Jun 04 08:34	19°Щ32′29 13°Щ21′59	4 HU 1 /	mmmum eiong	14788 May 16 08:42	3°R 8	2 10 23
direct	14787 Jun 04 08:34 14787 Jun 08 11:41	13° Щ 21'39 11° Ц 45'40		morning rise	14788 May 18 20:19	27° 8 44'43	
direct	17/0/ Juli 00 11.41	11 11 4340		morning 115C	17/00 May 10 20.19	27 04443	

direct	14788 May 22 11:44	26° 8 28'33		morning max el	14789 May 13 00:03	14° 8 34'25	10022127
direct	14788 May 29 04:50	20 O 28 33		morning max er	14789 May 24 13:38	0° Ⅱ	16 33 27
morning max el	14788 May 29 13:56	0° П 21'53	19°22'08	desc. node	14789 May 25 05:56	1° ∏ 02'19	
desc. node	14788 Jun 07 09:03	11° I I18'03	19 22 08	morning set	14789 Jun 03 02:09	14° ∏ 50'06	
greatest brilliancy	14788 Jun 11 06:01	16° I I54'35	-0.7m	morning set	14789 Jun 12 18:32	0°95	
greatest offinality	14788 Jun 19 22:16	0°95	-0.7111	max. Earth dist.	14789 Jun 18 17:48	9° © 18'50	1.45886 AU
morning set	14788 Jun 23 08:33	5° © 15'26		max. Earth dist.	14/09 Juli 10 17.40	9 3 10 30	1.43660 AU
max. Earth dist.	14788 Jul 05 22:52	24°9549'15	1.45272 AU	superior conj	14789 Jun 19 01:37	9° 5 49'20	-2°11'15
max. Lattii dist.	14788 Jul 09 05:34	0°Ω	1.43272 AU	minimum elong	14789 Jun 18 21:41	9° © 34'00	
	14700 Jul 07 03.54	0 86		minimum clong	14789 Jul 01 22:23	0°Ω	2 12 07
superior conj	14788 Jul 09 15:18	0° Ω 38'36	-2°11'23	evening rise	14789 Jul 04 18:17	4°Ω28'36	
minimum elong	14788 Jul 09 19:03	0° Ω 53'29		greatest brilliancy	14789 Jul 12 19:25	17°Ω11'31	-0.8m
evening rise	14788 Jul 23 23:19	23° Ω 55'08	2 12 12	asc. node	14789 Jul 19 08:55	27°Ω08'04	-0.0111
evening rise	14788 Jul 27 15:27	0° m)		ase. Houe	14789 Jul 21 10:13	0°m)	
asc. node	14788 Aug 01 12:12	7° Mp 57'02		evening max el	14789 Jul 26 04:09	5°Mp39'14	18°42'23
evening max el	14788 Aug 11 15:45	21° m 55'43	18°13'24	retrograde	14789 Aug 01 18:17	9° Mg 13'57	18 42 23
retrograde	14788 Aug 11 13.43	25° m) 17'36	16 13 24	evening set	14789 Aug 05 00:48	8° Mp 12'45	
•	14788 Aug 20 21:52	-		inferior conj	•	2° My 32'57	2°39'47
evening set inferior conj	14788 Aug 26 21:54	24° Mp 32'14 19° Mp 07'14	2°02'40	minimum elong	14789 Aug 10 15:39 14789 Aug 10 17:43		2°38'48
3	-			· ·		-	
minimum elong	14788 Aug 27 00:18	19° Mp 00'23	2°01'41	min. Earth dist.	14789 Aug 12 12:52	0° TD 13'03	0.65893 AU
min. Earth dist.	14788 Aug 29 09:01	16° Th 20'00	0.64018 AU		14789 Aug 12 17:12	30°R€	
morning rise	14788 Sep 02 01:03	12° m/49'03		morning rise	14789 Aug 16 09:37	26° Ω 08'07	
desc. node	14788 Sep 03 06:29	11° m 56'40		desc. node	14789 Aug 21 03:57	23° Ω 38'27	
direct	14788 Sep 08 15:25	10° m 15'09	27026152	direct	14789 Aug 22 17:39	23° Ω 29'13	
morning max el	14788 Sep 22 10:36	18° m 14'32	27°36'52		14789 Sep 03 14:28	0° m/y	26044114
	14788 Oct 02 08:24	0∘ 亚		morning max el	14789 Sep 04 21:59	1° Mp 17'18	26°44'14
	14788 Oct 21 06:44	0°M,			14789 Sep 26 10:15	0∘ ⊽	
morning set	14788 Oct 27 11:15	11°M47'18		morning set	14789 Oct 10 16:45	24° Ω 49'36	
asc. node	14788 Oct 28 14:11	14°ML02'07			14789 Oct 13 08:58	0° M .	
max. Earth dist.	14788 Nov 01 05:08	21°M30'15	1.32547 AU	max. Earth dist.	14789 Oct 14 18:12	2°M44'32	1.34078 AU
				asc. node	14789 Oct 15 10:52	4°M08'00	
superior conj	14788 Nov 04 10:39	28°M23'47	1°00'28				
minimum elong	14788 Nov 04 08:21	28°M11'21	1°00'54	superior conj	14789 Oct 19 10:56	12°M20'58	0°36'36
	14788 Nov 05 04:26	0° ∡ ¹		minimum elong	14789 Oct 19 09:08	12°M11'32	0°36'51
evening rise	14788 Nov 11 08:47	13° ∡ 25'43		evening rise	14789 Oct 26 18:41	27°M50'39	
	14788 Nov 19 14:24	0° ろ			14789 Oct 27 19:21	0° ∡	
desc. node	14788 Nov 30 03:19	16° ට 11'48			14789 Nov 15 01:41	0°ಕ	
evening max el	14788 Dec 04 00:32	20° ろ 27'05	23°02'10	evening max el	14789 Nov 15 14:59	0° 云 33'30	21°23'27
retrograde	14788 Dec 17 04:44	26° る 59'20		desc. node	14789 Nov 17 00:29	1° る 51'27	
evening set	14788 Dec 21 08:15	26° පි 21'56		retrograde	14789 Nov 27 15:58	6° ප 31'34	
min. Earth dist.	14788 Dec 28 10:02			evening set	14789 Nov 30 12:04	6° ප 13'01	
inferior conj	14788 Dec 29 15:34	22° ろ 23'07		inferior conj	14789 Dec 09 07:10	2° る 21'07	
minimum elong	14788 Dec 29 17:45	22° ろ 20'00	5°57'04	minimum elong	14789 Dec 09 00:22	2° る 30'40	
morning rise	14789 Jan 07 04:42	18° る 33'39		min. Earth dist.	14789 Dec 09 15:50	2° る 08'55	0.54440 AU
direct	14789 Jan 10 03:00	18° る 13'33			14789 Dec 13 16:52	30°₽,⊀	
morning max el	14789 Jan 21 11:56	23° る 41'02	20°51'20	morning rise	14789 Dec 17 13:14	28° ∡ ³31'42	
asc. node	14789 Jan 24 13:27	26° る 59'50		direct	14789 Dec 21 10:43	27° ∡ ′58'51	
	14789 Jan 26 21:12	0° ≈			14789 Dec 28 17:11	0°る	
morning set	14789 Feb 09 17:35	24°≈53'08		morning max el	14790 Jan 03 05:20	4° る 09'13	22°31'14
	14789 Feb 12 04:29	0° ∀		asc. node	14790 Jan 11 10:44	14° る 11'56	
		40034			14790 Jan 20 12:08	0° ≈	
superior conj	14789 Feb 17 03:30		1°09'49	morning set	14790 Jan 25 04:34	9° ≈ 37'59	
minimum elong	14789 Feb 17 06:05	10° 米 31′12	1°09'55				
max. Earth dist.	14789 Feb 22 05:44	20°) € 29'09	1.35716 AU	superior conj	14790 Feb 01 04:44	24°≈38'47	1°25'34
evening rise	14789 Feb 26 03:46	27° ¥ 55'54		minimum elong	14790 Feb 01 06:46	24° ≈ 49'32	1°26'03
desc. node	14789 Feb 26 04:05	27° ¥ 57′20			14790 Feb 03 17:45	0° ∀	
	14789 Feb 27 06:44	0° Υ		max. Earth dist.	14790 Feb 04 20:30	2°) 18'30	1.33867 AU
	14789 Mar 17 18:04	0°8		evening rise	14790 Feb 09 07:59	11°) 16'49	
evening max el	14789 Apr 02 13:21	19° 8 27'14	26°14'41	desc. node	14790 Feb 13 00:39	18°) €17'14	
retrograde	14789 Apr 15 09:31	26° 8 47'10			14790 Feb 19 16:27	0°Υ	
evening set	14789 Apr 21 15:02	24° 8 15'37			14790 Mar 13 02:52	0°8	
asc. node	14789 Apr 22 10:01	23° 8 34'12		evening max el	14790 Mar 16 03:00	3° 8 05'39	27°06'01
min. Earth dist.	14789 Apr 25 18:01	19° 8 56'46	0.67023 AU	retrograde	14790 Mar 29 13:36	10° 8 35'03	
inferior conj	14789 Apr 27 12:14	17° 8 46'51	1°30'57	evening set	14790 Apr 05 03:41	8° 8 03'27	
minimum elong	14789 Apr 27 10:17	17° 8 52'51	1°29'38	min. Earth dist.	14790 Apr 09 01:42	4° 8 17'40	0.65483 AU
morning rise	14789 May 03 06:25	12° 8 02'46		asc. node	14790 Apr 09 07:24	4° 8 01'53	
direct	14789 May 06 10:59	11° 8 05'13		inferior conj	14790 Apr 11 08:19	1° 8 43'00	0°38'10

minimum elong	14790 Apr 11 07:19	1° 8 45'52	0°37'20	inferior conj	14791 Mar 25 18:57	15° Y 20'53	
	14790 Apr 12 21:25	30° ₹ Υ		minimum elong	14791 Mar 25 19:48	15° Y 18'40	0°27'02
morning rise	14790 Apr 17 12:34	26°Υ11'21		asc. node	14791 Mar 27 04:49	13° ℃ 55'44	
direct	14790 Apr 20 07:24	25° Y 29'39		morning rise	14791 Apr 01 11:48	10° Y ′04'04	
morning max el	14790 Apr 26 15:13	28° Y 47'18	18°01'35	direct	14791 Apr 03 22:17	9° Υ 34'52	17047106
	14790 Apr 27 19:19	0°8		morning max el	14791 Apr 10 08:47	12° Y 52′27	17°47'06
desc. node	14790 May 12 02:43	21° 8 06'42		. ,	14791 Apr 22 06:28	0°8	
morning set	14790 May 14 22:31	25° 8 43'08		morning set	14791 Apr 26 21:46	7° 8 53'27	
	14790 May 17 13:37	Π $^{\circ}$ 0		desc. node	14791 Apr 28 23:27	11° 8 25'25	
superior conj	14790 May 29 12:40	19° Ⅱ 08'37	-1°51'26	superior conj	14791 May 09 16:08	29° 8 16'20	-1°17'51
minimum elong	14790 May 29 03:57	18° Ⅱ 34'14		minimum elong	14791 May 09 08:37	28° 8 45'44	
max. Earth dist.	14790 Jun 01 13:45		1.45756 AU	minimum clong	14791 May 10 02:52	0°Ⅱ	1 17 45
man. Darm dist.	14790 Jun 05 11:17	0.00	1.10700110	max. Earth dist.	14791 May 15 08:47	8° I I25'22	1.44898 AU
evening rise	14790 Jun 14 15:06	14°909'36		evening rise	14791 May 25 02:03	23° I I33'40	1.1.000110
	14790 Jun 25 00:01	0°Ω		8	14791 May 29 07:36	0ංම 	
greatest brilliancy	14790 Jun 27 17:49	4°Ω05'25	-0.7m		14791 Jun 19 13:11	0°N	
asc. node	14790 Jul 06 05:42	15° Ω 49'12		evening max el	14791 Jun 22 14:22	3° Ω 20'46	20°28'31
evening max el	14790 Jul 09 12:07	19° Ω 28'48	19°28'02	asc. node	14791 Jun 23 02:34	3° Ω 50'41	
retrograde	14790 Jul 16 15:51	23° Ω 28'37		retrograde	14791 Jun 30 14:46	7° Ω 56'28	
evening set	14790 Jul 20 08:00	22° Ω 10'20		evening set	14791 Jul 04 17:13	6° Ω 20'42	
inferior conj	14790 Jul 25 17:02	16° Ω 17'13	3°01'28	inferior conj	14791 Jul 09 23:22	0° Ω 15'28	3°10'06
minimum elong	14790 Jul 25 18:16	16° Ω 13'07	3°00'33	minimum elong	14791 Jul 09 23:38	0° Ω 14'34	3°09'09
min. Earth dist.	14790 Jul 26 23:59	14° Ω 35'06	0.67375 AU		14791 Jul 10 03:52	30° ₹5	
morning rise	14790 Jul 31 03:58	9° Q 51′53		min. Earth dist.	14791 Jul 10 16:23	29°517'03	0.68405 AU
direct	14790 Aug 06 02:31	7° Ω 16′53		morning rise	14791 Jul 15 05:44	23°953'34	
desc. node	14790 Aug 08 01:23	7° Ω 31'28		direct	14791 Jul 20 16:46	21° © 29'53	
morning max el	14790 Aug 18 08:55	14° Ω 37'33	25°29'46	desc. node	14791 Jul 25 22:45	23° © 15'02	
	14790 Aug 30 22:57	0° m)		morning max el	14791 Jul 31 19:24	28° © 08'29	24°03'14
	14790 Sep 19 05:57	0∘ ⊽			14791 Aug 02 13:49	0 $^{\circ}$ Ω	
morning set	14790 Sep 23 07:26	7° ≏ 10'52			14791 Aug 24 15:18	0° m)	
max. Earth dist.	14790 Sep 26 21:38	13° ≏ 48'23	1.36086 AU	morning set	14791 Sep 05 03:04	18° M 41'25	
	14790 Oct 02 07:27	24° ♀ 16'34		max. Earth dist.	14701 Can 00 20:00	25°Mp09'58	1.38406 AU
asc. node	14/90 Oct 02 07.27	24 == 10 34		max. Earth dist.	14791 Sep 08 20:09		1.50100710
				max. Earth dist.	14791 Sep 08 20.09 14791 Sep 11 12:38	0° ʊ	1.50 100 710
superior conj	14790 Oct 03 02:26	25° £ 51'12	0°07'18		14791 Sep 11 12:38	0∘ ⊽	
superior conj minimum elong	14790 Oct 03 02:26 14790 Oct 03 01:59	25° £ 51'12 25° £ 48'54	0°07'18 0°07'34	superior conj	14791 Sep 11 12:38 14791 Sep 16 05:43	0° ჲ 8° ჲ 46'33	-0°26'23
superior conj minimum elong behind sun begin	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23	25° Ω 51'12 25° Ω 48'54 25° Ω 20'56		superior conj minimum elong	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34	0° ჲ 8° ჲ 46′33 8° ჲ 55′20	-0°26'23
superior conj minimum elong	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34	25° Ω 51'12 25° Ω 48'54 25° Ω 20'56 26° Ω 16'55		superior conj minimum elong asc. node	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01	0° ჲ 8° ჲ 46'33 8° ჲ 55'20 14° ჲ 24'33	-0°26'23
superior conj minimum elong behind sun begin behind sun end	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48	25° Ω 51'12 25° Ω 48'54 25° Ω 20'56 26° Ω 16'55 0° M		superior conj minimum elong	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10	0° • 8° • 46'33 8° • 55'20 14° • 24'33 26° • 03'13	-0°26'23
superior conj minimum elong behind sun begin	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18	25° Ω 51'12 25° Ω 48'54 25° Ω 20'56 26° Ω 16'55 0° M . 12° M 05'06		superior conj minimum elong asc. node evening rise	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27	0° £ 8° £ 46'33 8° £ 55'20 14° £ 24'33 26° £ 03'13 0° M	-0°26'23 0°25'59
superior conj minimum elong behind sun begin behind sun end evening rise	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28	25° \$\Omega 51'12 25° \$\Omega 48'54 25° \$\Omega 20'56 26° \$\Omega 16'55 0° \$\mathbb{M}\$. 12° \$\mathbb{M}\$.05'06 0° \$\nstacksquare\$	0°07'34	superior conj minimum elong asc. node evening rise evening max el	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39	-0°26'23
superior conj minimum elong behind sun begin behind sun end evening rise evening max el	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16	25° Ω 51'12 25° Ω 48'54 25° Ω 20'56 26° Ω 16'55 0° M 12° M 05'06 0° ⊀ 11° ⊀ 18'16		superior conj minimum elong asc. node evening rise evening max el retrograde	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39 27° № 19'18	-0°26'23 0°25'59
superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44	25° \$\Omega 51'12 25° \$\Omega 48'54 25° \$\Omega 20'56 26° \$\Omega 16'55 0° \$\mathrm{m}\$ 12° \$\mathrm{m}\$ 05'06 0° \$\nall 1'\$\nall 18'16 15° \$\nall 38'20	0°07'34	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° M 22° M 52'39 27° M 19'18 27° M 12'25	-0°26'23 0°25'59
superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \$\mathbb{M}\$. 12° \$\mathbb{M}\$05'06 0° \$\nr\$ 11° \$\nr\$18'16 15° \$\nr\$38'20 16° \$\nr\$30'11	0°07'34	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 22 04:52	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39 27° № 19'18 27° № 12'25 27° № 08'07	-0°26'23 0°25'59 19°00'45
superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01	25° \$\Omega\$51'12 25° \$\Omega\$48'54 25° \$\Omega\$20'56 26° \$\Omega\$16'55 0° \$\mathbb{m}\$ 12° \$\mathbb{m}\$05'06 0° \$\nall\$^110' \$\nall\$^18'16 15° \$\nall\$^338'20 16° \$\nall\$^30'11 16° \$\nall\$^19'02	0°07'34 20°01'16	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 22 04:52 14791 Oct 30 13:40	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39 27° № 19'18 27° № 12'25 27° № 08'07 22° № 52'19	-0°26'23 0°25'59 19°00'45 -2°46'34
superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17	25° ♣51'12 25° ♣48'54 25° ♣20'56 26° ♣16'55 0° M 12° M.05'06 0° ⊀ 11° ₹18'16 15° ₹38'20 16° ₹30'11 16° ₹19'02 12° ₹20'35	0°07'34 20°01'16 -4°29'53	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 22 04:52 14791 Oct 30 13:40 14791 Oct 30 06:42	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39 27° № 19'18 27° № 12'25 27° № 08'07 22° № 52'19 23° № 04'23	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11
superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13	25° ♣51'12 25° ♣48'54 25° ♣20'56 26° ♣16'55 0° M 12° M.05'06 0° ♂ 11° ♂ 18'16 15° ♂ 38'20 16° ♂ 30'11 16° ♂ 19'02 12° ♂ 20'35 12° ♂ 35'47	0°07'34 20°01'16 -4°29'53 4°26'02	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26	0° № 8° № 46′33 8° № 46′33 8° № 55′20 14° № 24′33 26° № 03′13 0° № 22° № 52′39 27° № 19′18 27° № 12′25 27° № 08′07 22° № 52′19 23° № 04′23 20° № 53′33	-0°26'23 0°25'59 19°00'45 -2°46'34
superior conj 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.	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02	25° ♣51'12 25° ♣48'54 25° ♣20'56 26° ♣16'55 0° M 12° M.05'06 0° ⊀ 11° ₹18'16 15° ₹38'20 16° ₹30'11 16° ₹19'02 12° ₹20'35	0°07'34 20°01'16 -4°29'53	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39 27° № 19'18 27° № 12'25 27° № 08'07 22° № 52'19 23° № 04'23	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11
superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13	25° \$\Pi\$ 51'12 25° \$\Pi\$ 48'54 25° \$\Pi\$ 20'56 26° \$\Pi\$ 16'55 0° \mathbb{\text{m}} 12° \mathbb{\text{m}} 05'06 0° \$\nrd{\text{m}} 11° \$\nrd{\text{m}} 18'16 15° \$\nrd{\text{m}} 38'20 16° \$\nrd{\text{m}} 30'11 16° \$\nrd{\text{m}} 19'02 12° \$\nrd{\text{m}} 20'35 12° \$\nrd{\text{m}} 35'47 11° \$\nrd{\text{m}} 13'02	0°07'34 20°01'16 -4°29'53 4°26'02	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° № 22° № 52'39 27° № 19'18 27° № 12'25 27° № 08'07 22° № 52'19 23° № 04'23 20° № 53'33 18° № 09'47	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \m\ 12° \mu\$05'06 0° \$\struct \display 11° \$\times 18'16 15° \$\times 38'20 16° \$\times 19'02 12° \$\times 20'35 12° \$\times 35'47 11° \$\times 13'02 8° \$\times 11'58 7° \$\times 19'53	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M. 22° M.52'39 27° M.19'18 27° M.12'25 27° M.08'07 22° M.52'19 23° M.04'23 20° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 11 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \m\ 12° \mathred{\text{m}}05'06 0° \$\text{s}'\] 11° \$\text{s}' 18'16 15° \$\text{s}' 38'20 16° \$\text{s}' 30'11 16° \$\text{s}' 19'02 12° \$\text{s}' 20'35 12° \$\text{s}' 35'47 11° \$\text{s}' 13'02 8° \$\text{s}' 11'58 7° \$\text{s}' 19'53 14° \$\text{s}' 05'54	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24	0° № 8° № 46'33 8° № 55'20 14° № 24'33 26° № 03'13 0° M 22° M 52'39 27° M 19'18 27° M 12'25 27° M 08'07 22° M 52'19 23° M 04'23 20° M 53'33 18° M 09'47 16° M 53'43	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \m\ 12° \mu\$05'06 0° \$\struct \display 11° \$\times 18'16 15° \$\times 38'20 16° \$\times 19'02 12° \$\times 20'35 12° \$\times 35'47 11° \$\times 13'02 8° \$\times 11'58 7° \$\times 19'53	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M. 22° M.52'39 27° M.19'18 27° M.12'25 27° M.08'07 22° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ₹	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28	25° ♣51'12 25° ♣48'54 25° ♣20'56 26° ♣16'55 0° M 12° M 05'06 0° ♂ 11° ♂ 18'16 15° ♂ 38'20 16° ♂ 30'11 16° ♂ 19'02 12° ♂ 20'35 12° ♂ 35'47 11° ♂ 13'02 8° ♂ 11'58 7° ♂ 19'53 14° ♂ 05'54 0° ♂	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M. 22° M.52'39 27° M.19'18 27° M.12'25 27° M.08'07 22° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ₹ 21° ₹04'55	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \$\mathred{m}\$ 12° \$\mathred{m}\$05'06 0° \$\mathred{x}\$ 11° \$\mathred{x}\$18'16 15° \$\mathred{x}\$38'20 16° \$\mathred{x}\$30'11 16° \$\mathred{x}\$19'02 12° \$\mathred{x}\$20'35 12° \$\mathred{x}\$35'47 11° \$\mathred{x}\$13'02 8° \$\mathred{x}\$11'58 7° \$\mathred{x}\$19'53 14° \$\mathred{x}\$05'54 0° \$\mathred{\sigma}\$2" \$\mathred{\sigma}\$18'03	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° m. 22° m.52'39 27° m.19'18 27° m.12'25 27° m.08'07 22° m.52'19 23° m.04'23 20° m.53'33 18° m.09'47 16° m.53'43 24° m.07'38 0° ₹ 21° ₹04'55 0° ₹	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 03 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29	25° ♣51'12 25° ♣48'54 25° ♣48'55 26° ♣16'55 0° M 12° M 05'06 0° ♂ 11° ♂ 18'16 15° ♂ 38'20 16° ♂ 30'11 16° ♂ 19'02 12° ♂ 20'35 12° ♂ 35'47 11° ♂ 13'02 8° ♂ 11'58 7° ♂ 19'53 14° ♂ 05'54 0° ♂ 2° ♂ 18'03 24° ♂ 21'09	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M. 22° M.52'39 27° M.19'18 27° M.08'07 22° M.52'19 23° M.04'23 20° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ♂ 21° ♂04'55 0° ♂ 8° ♂58'18	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 03 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29	25° ♣51'12 25° ♣48'54 25° ♣48'55 26° ♣16'55 0° M 12° M 05'06 0° ♂ 11° ♂ 18'16 15° ♂ 38'20 16° ♂ 30'11 16° ♂ 19'02 12° ♂ 20'35 12° ♂ 35'47 11° ♂ 13'02 8° ♂ 11'58 7° ♂ 19'53 14° ♂ 05'54 0° ♂ 2° ♂ 18'03 24° ♂ 21'09	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 25 03:37	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M. 22° M.52'39 27° M.19'18 27° M.08'07 22° M.52'19 23° M.04'23 20° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ♂ 21° ♂04'55 0° ♂ 8° ♂58'18	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 01 22:33 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 12 06:56	25° ♣51'12 25° ♣48'54 25° ♣48'54 26° ♣16'55 0° M 12° M 05'06 0° ♂ 11° ♂ 18'16 15° ♂ 38'20 16° ♂ 30'11 16° ♂ 19'02 12° ♂ 20'35 12° ♂ 35'47 11° ♂ 13'02 8° ♂ 11'58 7° ♂ 19'53 14° ♂ 05'54 0° ♂ 2° ♂ 18'03 24° ♂ 21'09 0° ≈	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 25 03:37	8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M 22° M.52'39 27° M.19'18 27° M.12'25 27° M.08'07 22° M.52'19 23° M.04'23 20° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ₺7 21° ₺704'55 0° ₺7 8° ₺58'18	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 12 06:56	25° ♣51'12 25° ♣48'54 25° ♣48'54 26° ♣16'55 0° M 12° M 05'06 0° ♂ 11° ♂ 18'16 15° ♂ 38'20 16° ♂ 30'11 16° ♂ 19'02 12° ♂ 20'35 12° ♂ 35'47 11° ♂ 13'02 8° ♂ 11'58 7° ♂ 19'53 14° ♂ 05'54 0° ♂ 2° ♂ 18'03 24° ♂ 21'09 0° ≈	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 12 22:30 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 25 03:37 14791 Dec 31 21:42 14791 Dec 31 21:43	8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M 22° M.52'39 27° M.19'18 27° M.12'25 27° M.08'07 22° M.52'19 23° M.04'23 20° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ₺7 21° ₺704'55 0° ₺7 8° ₺58'18	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 10 10:18 14790 Oct 20 10:28 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 01 22:33 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 11:33	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \mathbb{m} 12° \mathbb{m}05'06 0° \$\tilde{\pi}\$ 11° \$\tilde{\pi}18'16 15° \$\tilde{\pi}38'20 16° \$\tilde{\pi}30'11 16° \$\tilde{\pi}30'11 16° \$\tilde{\pi}30'11 21° \$\tilde{\pi}20'35 12° \$\tilde{\pi}35'47 11° \$\tilde{\pi}13'02 8° \$\tilde{\pi}11'58 7° \$\tilde{\pi}19'53 14° \$\tilde{\pi}05'54 0° \tilde{\pi} 2° \tilde{\pi}18'03 24° \tilde{\pi}21'09 0° \$\imps\$ 9° \$\imps\$12'14 9° \$\imps\$18'08	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 16 07:34 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 12 22:30 14791 Dec 02 10:24 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 31 21:42 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° M 22° M.52'39 27° M.19'18 27° M.12'25 27° M.08'07 22° M.52'19 23° M.04'23 20° M.53'33 18° M.09'47 16° M.53'43 24° M.07'38 0° ⊀ 21° ₹04'55 0° ♂ 8° ♂58'18 23° ♂552'12 23° ♂552'12 23° ♂552'15 26° ♂18'15	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 08 04:43 14790 Nov 10 06:01 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 11:33 14791 Jan 16 11:33 14791 Jan 16 12:38 14791 Jan 18 19:07	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \m\ 12° \mathred{\text{m}}05'06 0° \$\mathred{\text{m}} 11° \$\mathred{\text{m}}18'16 15° \$\mathred{\text{m}}38'20 16° \$\mathred{\text{m}}30'11 16° \$\mathred{\text{m}}19'02 12° \$\mathred{\text{m}}20'35 12° \$\mathred{\text{m}}35'47 11° \$\mathred{\text{m}}13'02 8° \$\mathred{\text{m}}11'58 7° \$\mathred{\text{m}}19'53 14° \$\mathred{\text{m}}305'54 0° \$\mathred{\text{m}}20'85'21'09 0° \$\mathred{\text{m}}21'14 9° \$\mathred{\text{m}}18'08 14° \$\mathred{\text{m}}13'53 25° \$\mathred{\text{m}}30'48 0° \$\mathred{\text{m}}	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node 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.	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 02 10:26 14791 Nov 12 22:30 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00 14792 Jan 03 16:12	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° m. 22° m.52'39 27° m.19'18 27° m.12'25 27° m.08'07 22° m.52'19 23° m.04'23 20° m.53'33 18° m.09'47 16° m.53'43 24° m.07'38 0° ⊀ 21° ₹04'55 0° ♂ 8° ♂58'18 23° ♂552'15 26° ♂18'15 0° ≈ 9° ≈10'04 28° ≈09'00	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56
superior conj 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	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 19 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 11:33 14791 Jan 16 12:38 14791 Jan 18 19:07 14791 Jan 23 23:12 14791 Jan 26 10:41 14791 Jan 26 10:41	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \m\ 12° \mathred{\text{m}}05'06 0° \$\mathred{\text{m}} 11° \$\mathred{\text{m}}18'16 15° \$\mathred{\text{m}}38'20 16° \$\mathred{\text{m}}30'11 16° \$\mathred{\text{m}}19'02 12° \$\mathred{\text{m}}20'35 12° \$\mathred{\text{m}}35'47 11° \$\mathred{\text{m}}13'02 8° \$\mathred{\text{m}}11'58 7° \$\mathred{\text{m}}19'53 14° \$\mathred{\text{m}}305'54 0° \$\mathred{\text{m}}20'5'54 0° \$\mathred{\text{m}}21'199 0° \$\infty\$ 2° \$\mathred{\text{m}}18'08 14° \$\infty\$13'53 25° \$\infty\$03'48 0° \$\mathred{\text{m}} 8° \$\mathred{\text{m}}23'07	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node 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.	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00 14792 Jan 07 22:38 14792 Jan 17 17:57 14792 Jan 18 19:17	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° m. 22° m.52'39 27° m.19'18 27° m.12'25 27° m.08'07 22° m.53'33 18° m.09'47 16° m.53'43 24° m.07'38 0° ₺ 21° ₺704'55 0° ₺ 8° ₺58'18 23° ₺52'15 26° ₺18'15 0° ඎ 9° ≋10'04 28° ≋09'00 0° ₭	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56 1°37'58 1°38'57 1.31523 AU
superior conj 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 superior conj minimum elong max. Earth dist. evening rise desc. node	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 02 20:23 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 12 02:17 14790 Nov 18 16:13 14790 Nov 20 23:02 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 11:33 14791 Jan 18 19:07 14791 Jan 23 23:12 14791 Jan 26 10:41 14791 Jan 30 21:17 14791 Feb 13 04:16	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \m\ 12° \mathred{\text{m}}05'06 0° \$\mathred{\text{m}} 11° \$\mathred{\text{m}}18'16 15° \$\mathred{\text{m}}38'20 16° \$\mathred{\text{m}}30'11 16° \$\mathred{\text{m}}19'02 12° \$\mathred{\text{m}}20'35 12° \$\mathred{\text{m}}35'47 11° \$\mathred{\text{m}}13'02 8° \$\mathred{\text{m}}11'58 7° \$\mathred{\text{m}}19'53 14° \$\mathred{\text{m}}05'54 0° \$\mathred{\text{m}} 2° \$\mathred{\text{m}}18'03 24° \$\mathred{\text{m}}21'09 0° \$\infty\$ 14° \$\infty\$13'53 25° \$\infty\$03'48 0° \$\mathred{\text{m}} 8° \$\mathred{\text{m}}23'07 0° \$\mathred{\text{m}} 0° \$\mathred{\text{m}}	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40 1.32450 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node 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.	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 13:40 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 02 10:26 14791 Nov 12 22:30 14791 Nov 12 22:30 14791 Dec 02 10:24 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 21 20:25 14791 Dec 21 21:43 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00 14792 Jan 03 16:12 14792 Jan 07 22:38 14792 Jan 17 17:57	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° m. 22° m.52'39 27° m.19'18 27° m.12'25 27° m.08'07 22° m.53'33 18° m.09'47 16° m.53'43 24° m.07'38 0° ♂ 21° ♂ 04'55 0° ♂ 8° ♂ 552'15 23° ♂ 552'15 26° ♂ 18'15 0° ≈ 9° ≈10'04 28° ≈09'00 0° ₭ 29° ₭00'29	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56
superior conj 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 superior conj minimum elong max. Earth dist. evening rise desc. node	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 05 03:48 14790 Oct 10 10:18 14790 Oct 20 10:28 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 12 02:17 14790 Nov 18 16:13 14790 Nov 27 01:18 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 12:38 14791 Jan 18 19:07 14791 Jan 23 23:12 14791 Jan 26 10:41 14791 Jan 30 21:17 14791 Feb 13 04:16 14791 Feb 13 04:16	25° \$\Pi\$51'12 25° \$\Pi\$48'54 25° \$\Pi\$20'56 26° \$\Pi\$16'55 0° \$\mathbb{m}\$ 12° \$\mathbb{m}\$05'06 0° \$\bar{\sigma}\$ 11° \$\bar{\sigma}\$18'16 15° \$\bar{\sigma}\$30'11 16° \$\bar{\sigma}\$19'02 12° \$\bar{\sigma}\$20'35 12° \$\bar{\sigma}\$20'35 12° \$\bar{\sigma}\$20'35 12° \$\bar{\sigma}\$20'35 12° \$\bar{\sigma}\$20'54 0° \$\bar{\sigma}\$21'09 0° \$\infty\$ 2° \$\bar{\sigma}\$18'03 24° \$\bar{\sigma}\$21'09 0° \$\infty\$ 14° \$\infty\$13'53 25° \$\infty\$03'48 0° \$\bar{\text{\sigma}}\$ 8° \$\bar{\text{\sigma}}\$23'07 0° \$\bar{\text{\chi}}\$1'14	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40 1.32450 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node 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 desc. node evening max el	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 21 02:25 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00 14792 Jan 03 16:12 14792 Jan 07 22:38 14792 Jan 17 17:57 14792 Jan 18 19:17 14792 Feb 09 00:39 14792 Feb 10 02:22	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° m. 22° m.52'39 27° m.19'18 27° m.12'25 27° m.08'07 22° m.53'33 18° m.09'47 16° m.53'43 24° m.07'38 0° ₺ 21° ₺04'55 0° ₺ 8° ₺58'18 23° ₺58'18 23° ₺52'12 23° ₺52'15 26° ₺18'15 0° € 9° ≈10'04 28° ≈09'00 0° ₭ 29° ₭00'29 0° ♥	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56 1°37'58 1°38'57 1.31523 AU
superior conj 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 superior conj minimum elong max. Earth dist. evening rise desc. node	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 05 03:48 14790 Oct 11 01:18 14790 Oct 20 10:28 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 12 02:17 14790 Nov 18 16:13 14790 Nov 27 01:18 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 12:38 14791 Jan 18 19:07 14791 Jan 23 23:12 14791 Jan 26 10:41 14791 Jan 30 21:17 14791 Feb 13 04:16 14791 Feb 26 15:33 14791 Mar 12 10:40	25° \$\Pi 51'12 25° \$\Pi 48'54 25° \$\Pi 48'54 25° \$\Pi 20'56 26° \$\Pi 16'55 0° \$\mathred{m}\$ 12° \$\mathred{m}\$05'06 0° \$\bar{\sigma}\$ 11° \$\bar{\sigma}\$18'16 15° \$\bar{\sigma}\$38'20 16° \$\bar{\sigma}\$30'11 16° \$\bar{\sigma}\$19'02 12° \$\bar{\sigma}\$20'35 12° \$\bar{\sigma}\$35'47 11° \$\bar{\sigma}\$13'02 8° \$\bar{\sigma}\$11'58 7° \$\bar{\sigma}\$19'53 14° \$\bar{\sigma}\$05'54 0° \$\bar{\sigma}\$ 2° \$\bar{\sigma}\$18'03 24° \$\bar{\sigma}\$21'09 0° \$\implies\$ 9° \$\implies\$12'14 9° \$\implies\$18'08 14° \$\implies\$13'53 25° \$\implies\$03'48 0° \$\text{\t	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40 1.32450 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node 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 desc. node evening max el retrograde	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 06:42 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 21 02:25 14791 Dec 31 21:42 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00 14792 Jan 03 16:12 14792 Jan 17 17:57 14792 Jan 18 19:17 14792 Feb 09 00:39 14792 Feb 10 02:22 14792 Feb 10 02:22	8° £46'33 8° £46'33 8° £55'20 14° £24'33 26° £03'13 0° m. 22° m.52'39 27° m.19'18 27° m.12'25 27° m.08'07 22° m.53'33 18° m.09'47 16° m.53'43 24° m.07'38 0° ⊀ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55 0° ₹ 21° ₹04'55	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56 1°37'58 1°38'57 1.31523 AU
superior conj 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 superior conj minimum elong max. Earth dist. evening rise desc. node	14790 Oct 03 02:26 14790 Oct 03 01:59 14790 Oct 03 07:34 14790 Oct 05 03:48 14790 Oct 05 03:48 14790 Oct 10 10:18 14790 Oct 20 10:28 14790 Oct 20 10:28 14790 Oct 28 18:16 14790 Nov 03 21:44 14790 Nov 10 06:01 14790 Nov 10 06:01 14790 Nov 12 02:17 14790 Nov 18 16:13 14790 Nov 27 01:18 14790 Nov 27 01:18 14790 Dec 01 22:33 14790 Dec 15 14:45 14790 Dec 27 22:28 14790 Dec 29 07:55 14791 Jan 09 16:29 14791 Jan 16 11:33 14791 Jan 16 12:38 14791 Jan 18 19:07 14791 Jan 23 23:12 14791 Jan 26 10:41 14791 Jan 30 21:17 14791 Feb 13 04:16 14791 Feb 13 04:16	25° \$\Pi\$ 51'12 25° \$\Pi\$ 48'54 25° \$\Pi\$ 20'56 26° \$\Pi\$ 16'55 0° \mathbb{m} 12° \mathbb{m} 05'06 0° \$\mathbb{m} 11° \$\mathbb{m} 18'16 15° \$\mathbb{m} 38'20 16° \$\mathbb{m} 30'11 16° \$\mathbb{m} 19'02 12° \$\mathbb{m} 20'35 12° \$\mathbb{m} 35'47 11° \$\mathbb{m} 13'02 8° \$\mathbb{m} 11'58 7° \$\mathbb{m} 19'53 14° \$\mathbb{m} 05'54 0° \$\mathbb{m} 2° \$\mathbb{m} 18'03 24° \$\mathbb{m} 21'14 9° \$\approx 12'14 9° \$\approx 18'08 14° \$\approx 13'53 25° \$\approx 03'48 0° \$\mathbb{m} 8° \$\mathbb{m} 23'07 0° \$\mathbb{m} 16° \$\mathbb{m} 21'14 23° \$\mathbb{m} 49'52 21° \$\mathbb{m} 25'08	0°07'34 20°01'16 -4°29'53 4°26'02 0.54954 AU 24°20'44 1°34'52 1°35'40 1.32450 AU	superior conj minimum elong asc. node evening rise evening max el retrograde desc. node 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 desc. node evening max el	14791 Sep 11 12:38 14791 Sep 16 05:43 14791 Sep 19 04:01 14791 Sep 25 02:10 14791 Sep 27 02:27 14791 Oct 11 11:44 14791 Oct 20 07:52 14791 Oct 21 19:04 14791 Oct 30 06:42 14791 Nov 02 10:26 14791 Nov 02 10:26 14791 Nov 07 05:46 14791 Nov 12 22:30 14791 Nov 27 01:36 14791 Dec 02 10:24 14791 Dec 16 05:01 14791 Dec 20 20:25 14791 Dec 21 02:25 14791 Dec 31 21:42 14791 Dec 31 21:43 14792 Jan 02 00:00 14792 Jan 03 16:12 14792 Jan 07 22:38 14792 Jan 17 17:57 14792 Jan 18 19:17 14792 Feb 09 00:39 14792 Feb 10 02:22	8° \$\pi 46'33 8° \$\pi 46'33 8° \$\pi 55'20 14° \$\pi 24'33 26° \$\pi 03'13 0° \text{m} 22° \text{m}.52'39 27° \text{m}.19'18 27° \text{m}.12'25 27° \text{m}.08'07 22° \text{m}.52'19 23° \text{m}.04'23 20° \text{m}.53'33 18° \text{m}.09'47 16° \text{m}.53'43 24° \text{m}.07'38 0° \$\text{s}' 21° \$\text{s}'04'55 0° \$\text{s}' 22° \$\text{s}'52'12 23° \$\text{s}'52'15 26° \$\text{s}'18'15 0° \$\text{s}' 9° \$\text{s}'10'04 28° \$\text{s}'09'00 0° \$\text{t}' 29° \$\text{t}'00'29 0° \$\text{Y}' 6° \$\text{Y}'22'04 4° \$\text{Y}'11'31	-0°26'23 0°25'59 19°00'45 -2°46'34 2°43'11 0.56314 AU 26°01'56 1°37'58 1°38'57 1.31523 AU

	14792 Mar 06 01:58	30° ₹ ₩		min. Earth dist.	14793 Feb 14 17:27		0.59252 AU
inferior conj	14792 Mar 07 16:47	28° ∺ 31′28		inferior conj	14793 Feb 17 22:14	11° ∺ 05'20	
minimum elong	14792 Mar 07 20:31	28° ∺ 23'01	1°43'05	minimum elong	14793 Feb 18 05:19	10° 米 51′23	3°07'44
asc. node	14792 Mar 13 02:17	24° ∺ 21'57		morning rise	14793 Feb 25 20:36	6° ∺ 27'18	
morning rise	14792 Mar 15 00:14	23°) 32′36		direct	14793 Feb 27 20:46	6° ¥ 12'33	
direct	14792 Mar 17 04:11	23° ∺ 12′22		asc. node	14793 Feb 27 23:45	6° ¥ 12'37	
morning max el	14792 Mar 24 01:37	26°) 40′44	17°50'31	morning max el	14793 Mar 07 14:15	10° ∺ 02'32	18°13'00
	14792 Mar 26 23:22	0 ° $\mathbf{\Upsilon}$			14793 Mar 20 15:09	0° Y	
morning set	14792 Apr 08 18:12	21° Y 02'50		morning set	14793 Mar 23 05:57	4° Ƴ 53'47	
	14792 Apr 13 18:26	9° 8					
desc. node	14792 Apr 14 20:05	1° 8 53'13		superior conj	14793 Apr 01 20:43	22° Y '44'32	
				minimum elong	14793 Apr 01 20:36	22° Y '43'57	0°01'40
superior conj	14792 Apr 19 19:02	10° 8 29'13		behind sun begin	14793 Apr 01 13:06	22° Y 10′11	
minimum elong	14792 Apr 19 15:26	10° 8 13'49		behind sun end	14793 Apr 02 04:05	23° Y 17'39	
max. Earth dist.	14792 Apr 27 00:33	22° 8 32'13	1.43400 AU	desc. node	14793 Apr 01 16:40	22° Y ′26′15	
	14792 May 01 16:12	Π °0			14793 Apr 05 23:02	0°8	
evening rise	14792 May 03 19:20	3° Ⅱ 20′58		max. Earth dist.	14793 Apr 09 11:23	6° 8 01'42	1.41423 AU
	14792 May 21 17:31	0 \circ \odot		evening rise	14793 Apr 14 06:20	13° 8 57'38	
evening max el	14792 Jun 04 10:48	17° © 12'28	21°40'54		14793 Apr 24 12:56	Π °0	
asc. node	14792 Jun 08 23:33	20° © 58'43			14793 May 17 01:36	0	
retrograde	14792 Jun 13 13:12	22° © 31'19		evening max el	14793 May 18 02:48	1° © 04'31	23°00'36
evening set	14792 Jun 18 02:35	20°538'46		asc. node	14793 May 26 20:39	6° © 57'08	
inferior conj	14792 Jun 23 08:27	14° © 22'49	3°07'19	retrograde	14793 May 28 09:41	7° 5 07'43	
minimum elong	14792 Jun 23 07:45	14° © 25'16	3°06'16	evening set	14793 Jun 02 10:26	5° © 00'08	
min. Earth dist.	14792 Jun 23 12:03	14° © 10'16	0.68951 AU		14793 Jun 06 17:52	30° Ŗ Ⅱ	
morning rise	14792 Jun 28 12:44	8° 5 06'42		inferior conj	14793 Jun 07 18:16	28° Ⅲ 35'41	2°53'59
direct	14792 Jul 03 11:18	5° 9 59'34		minimum elong	14793 Jun 07 16:46	28° Ⅱ 40'54	2°52'45
desc. node	14792 Jul 11 20:04	10° © 22'58		min. Earth dist.	14793 Jun 07 08:55	29° Ⅱ 08'09	0.69011 AU
morning max el	14792 Jul 13 07:18	11° 5 47'38	22°33'58	morning rise	14793 Jun 12 23:02	22° Ⅱ 26'46	
	14792 Jul 27 19:16	0 $^{\circ}$ Ω		direct	14793 Jun 17 09:03	20° Ⅲ 39'01	
morning set	14792 Aug 15 23:37	29° Ω 11'37		morning max el	14793 Jun 25 23:28	25° Ⅲ 36′21	21°10'00
	14792 Aug 16 11:28	0°Щ		desc. node	14793 Jun 28 17:18	28° Ⅲ 33'28	
max. Earth dist.	14792 Aug 20 20:15	7° M) 15'26	1.40774 AU		14793 Jun 29 22:47	0°©	
	14702 4 20 16 26	200m 56140	1000116		14793 Jul 21 05:18	0° N	
superior conj	14792 Aug 28 16:36	20° Mp 56'48		morning set	14793 Jul 26 20:06	8° Ω 40′26	1 42014 ATT
minimum elong	14792 Aug 28 21:25	21°Mp18'31 0° ₽	1 01 40	max. Earth dist.	14793 Aug 03 01:46	20° Ω 13′10 0° m	1.42914 AU
aga mada	14792 Sep 02 15:16 14792 Sep 05 00:35	0 <u>ა.</u> 4° ჲ 28'00			14793 Aug 08 23:25	V III	
asc. node	14792 Sep 03 00.33	9° £ 36'23		superior conj	14793 Aug 10 06:41	2° mp 12'31	1026124
evening rise	14792 Sep 07 18:03	9 = 30 23 0° M		minimum elong	14793 Aug 10 00:41	2° m/43'29	
evening max el	14792 Sep 13 16:42 14792 Sep 23 16:18	5°M12'05	18°22'08	evening rise	14793 Aug 21 20:49	22° m 33'59	1 30 07
retrograde	14792 Oct 01 06:29	9°M03'25	10 22 00	asc. node	14793 Aug 22 21:08	24° m) 23'06	
evening set	14792 Oct 01 00:23	8°M47'28		use. Hode	14793 Aug 26 00:41	ე∘ <u>ი</u>	
desc. node	14792 Oct 03 07:21 14792 Oct 07 16:28	6°M39'28		evening max el	14793 Sep 07 03:50	ა _ 18° ჲ 07'12	18°03'57
inferior conj	14792 Oct 07 10:20	4°M10'39	-1°02'22	retrograde	14793 Sep 07 03:30 14793 Sep 13 22:32	21° ⊆ 36'10	10 05 57
minimum elong	14792 Oct 10 20:20	4°M15'29	1°00'55	evening set	14793 Sep 16 06:40	21° ⊆ 11'25	
min. Earth dist.	14792 Oct 14 04:59	1°M32'40	0.58268 AU	inferior conj	14793 Sep 23 04:29	16° ♀ 14'26	0°25'51
	14792 Oct 16 08:05	30° ₽₽		minimum elong	14793 Sep 23 05:18		
morning rise	14792 Oct 18 05:50	28° ♀ 50'50		desc. node	14793 Sep 24 13:58	14° £ 55'07	
direct	14792 Oct 24 12:28	27° ♀ 07'58		min. Earth dist.	14793 Sep 26 08:36	13° ≏ 16'29	0.60523 AU
	14792 Nov 01 23:53	0°M		morning rise	14793 Sep 30 00:49	10° £ 24'03	
morning max el	14792 Nov 07 19:48	4°M44'45	27°16'53	direct	14793 Oct 06 15:22	8° ≏ 15'46	
C	14792 Nov 26 09:06	0° ∡ ¹		morning max el	14793 Oct 20 21:48	16° ჲ 09'00	27°54'47
asc. node	14792 Dec 02 02:01	10° ≯ 21'50		•	14793 Nov 01 07:09	0° M	
morning set	14792 Dec 08 12:14	23° ∡ ²24'58		asc. node	14793 Nov 18 22:55	29°M59'51	
C	14792 Dec 11 13:02	0° ට			14793 Nov 18 22:57	0° ∡ ¹	
				morning set	14793 Nov 22 16:21	7° ∡ ³35'17	
superior conj	14792 Dec 15 09:14	8° ප 33'12	1°35'05	max. Earth dist.	14793 Nov 28 15:09	20° ∡ "27′28	1.31231 AU
minimum elong	14792 Dec 15 08:13	8° る 27'32					
max. Earth dist.	14792 Dec 15 08:00	8° පි 26'16	1.31109 AU	superior conj	14793 Nov 29 20:13	23° 尽 ⁰08'58	1°26'18
evening rise	14792 Dec 22 03:53	23° る 29'46		minimum elong	14793 Nov 29 18:24	22° х 58'48	1°27'06
-	14792 Dec 25 06:30	0° ≈		-	14793 Dec 02 21:59	ರ°0	
desc. node	14793 Jan 03 14:43	17° ≈ 27'07		evening rise	14793 Dec 06 12:49	7° る 56'48	
	14793 Jan 11 19:45	0°) €			14793 Dec 17 18:35	0° ≈	
evening max el	14793 Jan 21 03:32	10° ¥ 52'05	26°49'30	desc. node	14793 Dec 21 11:36	6° ≈ 06'06	
retrograde	14793 Feb 04 03:13	18°) 04′02		evening max el	14794 Jan 02 22:09	21° ≈ 50′18	25°37'25
evening set	14793 Feb 10 17:22	16°) 1 4′51		retrograde	14794 Jan 16 19:50	28° ≈ 50'51	

	14704 1 22 10 42	270 - 20112			14705 1 02 20 40	70 5711 0	
evening set	14794 Jan 22 18:43	27°≈29'13		evening set	14795 Jan 02 20:48	7°≈57'10	
min. Earth dist.	14794 Jan 27 10:51	24° ≈ 49'59	0.57174 AU	min. Earth dist.	14795 Jan 08 21:03	4°≈59'40	0.55526 AU
inferior conj	14794 Jan 30 07:53	22° ≈ 52'17		inferior conj	14795 Jan 10 20:38	3° ≈ 48′05	
minimum elong	14794 Jan 30 17:00	22° ≈ 36'42	4°32'23	minimum elong	14795 Jan 11 03:10	3° ≈ 38'14	5°38'22
morning rise	14794 Feb 07 18:08	18° ≈ 36′03			14795 Jan 18 19:24	30°Ŗる	
direct	14794 Feb 09 19:41	18° ≈ 23'04		morning rise	14795 Jan 19 11:18	29° る 50'42	
asc. node	14794 Feb 14 21:13	19° ≈ 46′24		direct	14795 Jan 21 23:11	29° る 34'48	
morning max el	14794 Feb 18 18:33	22° ≈ 45'22	18°56'24		14795 Jan 25 00:25	0° ≈	
	14794 Feb 24 12:53	0°) €		morning max el	14795 Feb 01 10:19	4° ≈ 37'44	20°02'38
morning set	14794 Mar 07 04:15	19° ∺ 11'39		asc. node	14795 Feb 01 18:38	4° ≈ 58'09	
· ·	14794 Mar 12 16:20	$0^{\circ}\mathbf{Y}$			14795 Feb 17 12:46	0° ∀	
				morning set	14795 Feb 19 09:32	3°) 46′13	
superior conj	14794 Mar 15 17:01	5° Ƴ 49'42	0°31'22			. , , , , , ,	
minimum elong	14794 Mar 15 18:56	5°Υ58'47	0°31'02	superior conj	14795 Feb 27 03:29	19° ¥ 32'26	0°57'42
desc. node	14794 Mar 19 13:12	13°Υ00'22	0 31 02	minimum elong	14795 Feb 27 06:06	19° X 45'34	
		18° Y 46'57	1.39185 AU	minimum clong		19 Λ (43 34	0 3/30
max. Earth dist.	14794 Mar 22 18:01		1.39183 AU	E d E d	14795 Mar 04 12:23	0° Υ 57'30	1 26024 ATT
evening rise	14794 Mar 26 14:33	25° Y 29'32		max. Earth dist.	14795 Mar 05 00:35		1.36934 AU
	14794 Mar 29 06:49	0°8		desc. node	14795 Mar 06 09:43	3° Y 32'04	
	14794 Apr 18 04:48	0°Щ		evening rise	14795 Mar 08 18:31	7° Y 51'16	
evening max el	14794 Apr 30 16:38	14° ∏ 58′03	24°21'42		14795 Mar 22 02:00	0° 8	
retrograde	14794 May 12 02:54	21° Ⅱ 39'39		evening max el	14795 Apr 13 06:14	28° 8 51'32	25°37'03
asc. node	14794 May 13 17:52	21° Ⅱ 28'11			14795 Apr 14 10:56	Π $^{\circ}0$	
evening set	14794 May 17 15:09	19° Ⅱ 19'48		retrograde	14795 Apr 25 15:36	6° Ⅱ 00′26	
min. Earth dist.	14794 May 22 04:51	14° Ⅱ 04'27	0.68592 AU	asc. node	14795 Apr 30 15:10	4° Ⅱ 18'12	
inferior conj	14794 May 23 02:56	12° Ⅱ 50′06	2°30'19	evening set	14795 May 01 15:04	3° Ⅲ 32′02	
minimum elong	14794 May 23 00:54	12° Ⅱ 56'57	2°28'55	Č	14795 May 05 00:01	30°R ∀	
morning rise	14794 May 28 10:46	6° ∏ 49'37	2 2000	min. Earth dist.	14795 May 05 21:39	28° 8 52'49	0.67719 AU
direct	14794 Jun 01 08:43	5° П 22'04		inferior conj	14795 May 07 08:27	27° 8 01'29	1°55'56
morning max el	14794 Jun 08 22:14	9° П 35'45	19°57'18	minimum elong	14795 May 07 06:18	27° 8 08'21	1°54'30
-			19 3/ 16		•		1 34 30
desc. node	14794 Jun 15 14:24	17° Ⅱ 29'45		morning rise	14795 May 12 22:02	21° 8 10'49	
	14794 Jun 24 10:13	0.22		direct	14795 May 16 08:45	20° 8 02'43	
morning set	14794 Jul 06 00:22	17° © 29'52		morning max el	14795 May 23 04:21	23° 8 44'18	18°59'22
	14794 Jul 14 01:27	0 $^{\circ}$ Ω			14795 May 28 12:15	Π °0	
max. Earth dist.	14794 Jul 16 13:38	3° Ω 57'45	1.44585 AU	desc. node	14795 Jun 02 11:23	6° Ⅱ 59'13	
				greatest brilliancy	14795 Jun 05 09:47	11° Ⅱ 21'18	-0.7m
superior conj	14794 Jul 21 21:17	12° Ω 29'30	-2°02'42	morning set	14795 Jun 15 07:17	26° Ⅲ 31'56	
minimum elong	14794 Jul 22 03:52	12° Ω 56′11	2°03'07		14795 Jun 17 13:02	0 \circ \odot	
	14794 Aug 01 10:38	0°mp		max. Earth dist.	14795 Jun 29 06:58	18° 5 016'41	1.45622 AU
evening rise	14794 Aug 04 05:23	4° m 43'33					
asc. node	14794 Aug 09 17:45	14° m 05'49		superior conj	14795 Jul 01 14:53	21° © 55'53	-2°13'50
	14794 Aug 20 09:11	0∘ ⊽		minimum elong	14795 Jul 01 15:32	21° © 58'26	
evening max el	14794 Aug 21 18:22	1° ≏ 28'32	18°04'47	minimum ciong	14795 Jul 06 17:29	0° Ω	2 11 17
retrograde	14794 Aug 28 03:52	4° Ω 48'54	10 0447	evening rise	14795 Jul 16 14:44	15° Ω 52'50	
•	-			evening rise			
evening set	14794 Aug 30 20:23	4° £ 11'51		,	14795 Jul 25 08:36	0° Mp	
	14794 Sep 05 03:19	30°R Mp		asc. node	14795 Jul 27 14:25	3° m/30'11	
inferior conj	14794 Sep 06 03:22	28° Mp 56'40	1°33'05	evening max el	14795 Aug 05 08:26	15°Mp06'14	18°23'40
minimum elong	14794 Sep 06 05:35	28° m 50'44	1°32'15	retrograde	14795 Aug 11 18:10	18° Mp 31'36	
min. Earth dist.	14794 Sep 08 21:56	26° Mp 00'02	0.62796 AU	evening set	14795 Aug 14 19:33	17° m 39'35	
desc. node	14794 Sep 11 11:29	23° Mp 35'26		inferior conj	14795 Aug 20 15:15	12°Mp08'15	2°20'27
morning rise	14794 Sep 12 12:34	22° Mp 46'03		minimum elong	14795 Aug 20 17:36	12° m 01'18	2°19'26
direct	14794 Sep 19 04:47	20° m 18'45		min. Earth dist.	14795 Aug 22 20:35	9° m y31'11	0.64863 AU
morning max el	14794 Oct 03 05:23	28° Mp 18'56	27°53'36	morning rise	14795 Aug 26 14:18	5° m 46'39	
	14794 Oct 04 20:29	0∘ ⊽		desc. node	14795 Aug 29 09:00	4° Mp 00'02	
	14794 Oct 26 03:02	0° M		direct	14795 Sep 02 02:34	3° m/09'28	
asc. node	14794 Nov 05 19:43	19° M 52'44		morning max el	14795 Sep 15 15:56	11° Mp 05'06	27°17'41
morning set	14794 Nov 06 13:51	21°M24'18		morning man vi	14795 Sep 30 16:18	0∘ ⊽	2, 1, 11
morning set	14794 Nov 10 16:49	0° √			14795 Oct 18 14:39	0° m	
Double died			1 21000 ATT				
max. Earth dist.	14794 Nov 11 17:46	2° ∡ 13'42	1.31909 AU	morning set	14795 Oct 21 02:02	4°M45'15	
	1450434 11 01 11	70 7 2 ···	1011127	asc. node	14795 Oct 23 16:25	9°M54'53	1 221 12 :
superior conj	14794 Nov 14 04:48	7° ∡ ³34'34	1°11'37	max. Earth dist.	14795 Oct 25 12:27	13°M39'21	1.33142 AU
minimum elong	14794 Nov 14 02:31	7° ∡ ¹22'06	1°12'11				
evening rise	14794 Nov 20 23:36	22° ₹ 27'02		superior conj	14795 Oct 29 08:47	21°M43'46	0°51'03
	14794 Nov 24 13:31	5°0		minimum elong	14795 Oct 29 06:36	21°M32'08	0°51'24
desc. node	14794 Dec 08 08:35	23° る 51'32			14795 Nov 02 05:05	0° ∡ 7	
	14794 Dec 13 08:39	0° ≈		evening rise	14795 Nov 05 10:21	6° ₹ 155'15	
evening max el	14794 Dec 15 09:35	2°≈04'51	24°01'35		14795 Nov 17 12:33	8°0	
retrograde	14794 Dec 28 23:15	8° ≈ 49'22		desc. node	14795 Nov 25 05:40	10° る 23'52	
٠٠٠٠٠ ت							

	14705 N 26 20 05	12070202	22010144	1 1	14706 N 11 02 52	250 71055	
evening max el	14795 Nov 26 20:05	12°る03'03	22°18'44	desc. node	14796 Nov 11 02:52	25° ₹ 18'55	
retrograde	14795 Dec 09 14:05	18° る 21'51		retrograde	14796 Nov 19 00:26	28° × 02'01	
evening set	14795 Dec 13 03:43	17°る53'50	0.54506.411	evening set	14796 Nov 21 10:43	27° 🗷 47'42	5017107
min. Earth dist.	14795 Dec 21 03:04		0.54586 AU	inferior conj	14796 Nov 30 07:58	23° x 54'12	
inferior conj	14795 Dec 21 16:46	14°る00'05 14°る02'39		minimum elong	14796 Nov 29 22:48	24° × 707'21	5°14'33
minimum elong	14795 Dec 21 14:56	14°802'39 10° 8 12'54	5*58*02	min. Earth dist.	14796 Dec 01 08:44	23°×718'40	0.54548 AU
morning rise direct	14795 Dec 30 03:14 14796 Jan 02 11:14	9° る 47'59		morning rise	14796 Dec 08 10:56	19° ҂ 59'20 19° ҂ 19'11	
	14796 Jan 02 11:14 14796 Jan 14 11:12	9 3 4/39	2102144	direct	14796 Dec 12 18:49	25° х 1911	22017/41
morning max el asc. node	14796 Jan 14 11.12 14796 Jan 19 15:57	13 33 400 21° 3 31'35	21 31 44	morning max el	14796 Dec 26 00:06	23 x ·44 39	23 1/41
asc. node	14796 Jan 19 13.37 14796 Jan 25 05:32	21 ⊘ 3133		asc. node	14796 Dec 29 23:15 14797 Jan 05 13:12	0 3 9° る 08'37	
morning sot	14796 Feb 03 19:07	0 ∞ 18°≈29'44		asc. Houe	14797 Jan 16 17:52	9° ≈	
morning set	14796 Feb 09 05:50	10 ≈ 29 44 0°) (morning set	14797 Jan 18 06:44	0 ≈ 3° ≈ 14'59	
	14/90100 09 03.30	0 X		morning set	14/9/ Jan 18 00.44	J ~14 JJ	
superior conj	14796 Feb 11 00:16	3° ¥ 42'18	1°17'18	superior conj	14797 Jan 25 04:10	18° ≈ 09'39	1°30'17
minimum elong	14796 Feb 11 02:40	3° ¥ 54'53	1°17'34	minimum elong	14797 Jan 25 05:50	18° ≈ 18'33	1°30'55
max. Earth dist.	14796 Feb 15 11:47	12° X 51'25	1.34887 AU	max. Earth dist.	14797 Jan 28 06:06	24°≈43'24	1.33206 AU
evening rise	14796 Feb 19 14:55	20°\ 53'32	1.5 .00 / 110	man Barar Gigt.	14797 Jan 30 19:12	0° ∀	1.55200110
desc. node	14796 Feb 21 06:14	23° H 57'44		evening rise	14797 Feb 02 00:10	4° ¥ 26'28	
dese. node	14796 Feb 24 14:13	0°Υ		desc. node	14797 Feb 07 02:47	14°) 12'20	
	14796 Mar 14 23:31	0°8			14797 Feb 16 08:12	0° Υ	
evening max el	14796 Mar 25 20:04	12° 8 38'46	26°39'10	evening max el	14797 Mar 08 09:20	26° Y ′08'36	27°20'45
retrograde	14796 Apr 07 22:52	20° 8 03'15	20 37 10	evening man er	14797 Mar 12 21:46	0°8	2, 20 10
evening set	14796 Apr 14 08:23	17° 8 31'03		retrograde	14797 Mar 21 23:54	3° 8 38'34	
asc. node	14796 Apr 16 12:31	15° 8 30'23		evening set	14797 Mar 28 17:00	1° 8 08'44	
min. Earth dist.	14796 Apr 18 09:11	13° 8 26'38	0.66415 AU	<i>5 5</i>	14797 Mar 30 02:38	30° R Υ	
inferior conj	14796 Apr 20 08:41	11° 8 05'16	1°10'07	min. Earth dist.	14797 Apr 01 13:21	27° Y ′36'26	0.64720 AU
minimum elong	14796 Apr 20 07:01	11° 8 10'12	1°08'56	asc. node	14797 Apr 03 09:56	25° Ƴ 35'48	
morning rise	14796 Apr 26 06:47	5° 8 26'09		inferior conj	14797 Apr 04 01:04	24° Y ′54'25	0°11'59
direct	14796 Apr 29 07:11	4° 8 35'32		minimum elong	14797 Apr 04 00:43	24° Y ′55'20	0°11'31
morning max el	14796 May 05 16:52	7° 8 58'03	18°17'52	transit middle	14797 Apr 04 00:43	24° Y ′55'20	0°11'31
desc. node	14796 May 19 08:14	26° 8 53'10		transit begin	14797 Apr 03 22:36	25° Y ′01′08	
	14796 May 21 07:26	$\Pi^{\circ}0$		transit end	14797 Apr 04 02:51	24° Y '49'33	
morning set	14796 May 25 11:40	6° Ⅱ 39'00		morning rise	14797 Apr 10 10:24	19° Y 29'01	
C	14796 Jun 09 06:47	0°ಅ		direct	14797 Apr 13 01:34	18° Y ′53′02	
				morning max el	14797 Apr 19 09:27	22° Y ′08'58	17°53'21
superior conj	14796 Jun 09 23:16	1° 5 04'22	-2°05'02		14797 Apr 25 14:49	0°8	
minimum elong	14796 Jun 09 16:33	0°538'09	2°05'42	desc. node	14797 May 06 04:58	17° 8 04'10	
max. Earth dist.	14796 Jun 11 03:15	2° © 53'36	1.45925 AU	morning set	14797 May 06 19:54	18° 8 06'16	
evening rise	14796 Jun 25 23:27	26°501'46			14797 May 14 00:55	$\Pi^{\circ}0$	
	14796 Jun 28 12:31	$0^{\circ}\Omega$					
greatest brilliancy	14796 Jul 06 08:19	12° Ω 06′58	-0.8m	superior conj	14797 May 20 15:45	10° Ⅱ 40′19	-1°38'22
asc. node	14796 Jul 13 11:09	22° Ω 29'40		minimum elong	14797 May 20 06:56	10° Ⅲ 05′11	1°38'23
evening max el	14796 Jul 18 19:12	28° Ω 53′05	18°59'47	max. Earth dist.	14797 May 24 23:15	17° Ⅲ 29'43	1.45475 AU
	14796 Jul 19 23:58	0° m)			14797 Jun 02 00:09	0ංම	
retrograde	14796 Jul 25 14:00	2°m/36'49		evening rise	14797 Jun 05 14:05	5° 5 30'07	
evening set	14796 Jul 29 00:38	1°M)28'15		greatest brilliancy	14797 Jun 20 05:07	27° 5 28'47	-0.6m
	14796 Jul 30 19:51	30°R Ω			14797 Jun 21 23:11	$0^{\circ}\Omega$	
inferior conj	14796 Aug 03 12:35		2°50'42	asc. node	14797 Jun 30 07:58	10° Ω 55'12	
minimum elong	14796 Aug 03 14:20	25° Ω 36′50	2°49'44	evening max el	14797 Jul 02 00:42	12° Ω 43′23	19°52'03
min. Earth dist.	14796 Aug 05 03:37	23° Ω 37'58	0.66579 AU	retrograde	14797 Jul 09 12:31	16° Ω 57'41	
morning rise	14796 Aug 09 03:19	19° Ω 16'57		evening set	14797 Jul 13 08:57	15° Ω 31'53	
direct	14796 Aug 15 07:34	16° Ω 39'00		inferior conj	14797 Jul 18 16:23	9° Ω 33'11	3°06'36
desc. node	14796 Aug 15 06:29	16° Ω 39'01		minimum elong	14797 Jul 18 17:12	9° Ω 30'23	3°05'42
morning max el	14796 Aug 28 03:19	24° Ω 16′38	26°14'43	min. Earth dist.	14797 Jul 19 17:16	8° Ω 09'19	0.67864 AU
		0° m y		morning rise	14797 Jul 24 01:04	3° Ω 08'47	
	14796 Sep 02 06:56						
manming got	14796 Sep 23 02:08	0∘ ⊽		direct	14797 Jul 29 18:43	0° Ω 38'05	
morning set	14796 Sep 23 02:08 14796 Oct 03 01:42	0° ჲ 17° ჲ 31'04		desc. node	14797 Aug 02 03:54	1° Ω 21'52	
max. Earth dist.	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29	0° ჲ 17° ჲ 31'04 24° ჲ 48'14	1.34889 AU		14797 Aug 02 03:54 14797 Aug 10 14:11	1° Ω 21'52 7° Ω 42'49	24°53'57
•	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29 14796 Oct 09 13:02	0° Ω 17° Ω 31'04 24° Ω 48'14 0° M 02'17	1.34889 AU	desc. node morning max el	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52	1° Ω 21'52 7° Ω 42'49 0° m	24°53'57
max. Earth dist.	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29	0° ჲ 17° ჲ 31'04 24° ჲ 48'14	1.34889 AU	desc. node	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52 14797 Sep 15 08:55	1° N 21'52 7° N 42'49 0° M 29° M 32'36	24°53'57
max. Earth dist. asc. node	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29 14796 Oct 09 13:02 14796 Oct 09 12:35	0° Ω 17° Ω 31'04 24° Ω 48'14 0° M 02'17 0° M		desc. node morning max el morning set	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52 14797 Sep 15 08:55 14797 Sep 15 15:06	1° \O 21'52 7° \O 42'49 0° \O 29° \O 32'36 0° \O	
max. Earth dist. asc. node superior conj	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29 14796 Oct 09 13:02 14796 Oct 09 12:35 14796 Oct 12 05:42	0° Ω 17° Ω 31'04 24° Ω 48'14 0° M .02'17 0° M . 5° M .30'21	0°24'47	desc. node morning max el	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52 14797 Sep 15 08:55	1° N 21'52 7° N 42'49 0° M 29° M 32'36	24°53'57 1.37042 AU
max. Earth dist. asc. node superior conj minimum elong	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29 14796 Oct 09 13:02 14796 Oct 09 12:35 14796 Oct 12 05:42 14796 Oct 12 04:21	0° Ω 17° Ω 31'04 24° Ω 48'14 0° M .02'17 0° M . 5° M .30'21 5° M .23'25		desc. node morning max el morning set max. Earth dist.	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52 14797 Sep 15 08:55 14797 Sep 15 15:06 14797 Sep 18 22:19	1° \O 21'52 7° \O 42'49 0° \Overline 29° \Overline 32'36 0° \Overline 5° \Overline 57'06	1.37042 AU
max. Earth dist. asc. node superior conj	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29 14796 Oct 09 13:02 14796 Oct 09 12:35 14796 Oct 12 05:42 14796 Oct 12 04:21 14796 Oct 19 19:09	0° Ω 17° Ω 31'04 24° Ω 48'14 0° M 02'17 0° M . 5° M 30'21 5° M 23'25 21° M 16'43	0°24'47	desc. node morning max el morning set max. Earth dist. superior conj	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52 14797 Sep 15 08:55 14797 Sep 15 15:06 14797 Sep 18 22:19	1° \O 21'52 7° \O 42'49 0° \Overline 29° \Overline \Overline 5° \Overline 5° \Overline \Overline 18° \Overline \Overline 18° \Overline \Overline	1.37042 AU -0°06'34
max. Earth dist. asc. node superior conj minimum elong	14796 Sep 23 02:08 14796 Oct 03 01:42 14796 Oct 06 21:29 14796 Oct 09 13:02 14796 Oct 09 12:35 14796 Oct 12 05:42 14796 Oct 12 04:21	0° Ω 17° Ω 31'04 24° Ω 48'14 0° M .02'17 0° M . 5° M .30'21 5° M .23'25	0°24'47 0°25'02	desc. node morning max el morning set max. Earth dist.	14797 Aug 02 03:54 14797 Aug 10 14:11 14797 Aug 28 00:52 14797 Sep 15 08:55 14797 Sep 15 15:06 14797 Sep 18 22:19	1° \O 21'52 7° \O 42'49 0° \Overline 29° \Overline 32'36 0° \Overline 5° \Overline 57'06	1.37042 AU

behind sun end	14797 Sep 25 22:59	19° ≏ 18'50		superior conj	14798 Sep 08 13:18	1° £ 23'55 -0	
asc. node	14797 Sep 26 09:37	20° ≏ 11'10		minimum elong	14798 Sep 08 16:22	1° ≏ 38′10 (0°41'05
	14797 Oct 01 07:18	0°M₊		asc. node	14798 Sep 13 06:10	10° ≏ 17'21	
evening rise	14797 Oct 03 23:42	5°M25'32		evening rise	14798 Sep 17 21:10	19° ≏ 13'43	
	14797 Oct 18 00:00	0°⊀			14798 Sep 23 13:32	0° M	
evening max el	14797 Oct 21 00:44	3° ≯ 28'36	19°32'49	evening max el	14798 Oct 03 23:29		18°41'51
desc. node	14797 Oct 29 00:10	8° ≯ 11'45		retrograde	14798 Oct 12 05:41	19°M33'18	
retrograde	14797 Oct 30 18:38	8° ≯ 21'04		evening set	14798 Oct 14 03:38	19°M20'40	
evening set	14797 Nov 01 16:23	8° ≯ 10'42		desc. node	14798 Oct 15 21:35	18°M48'28	
inferior conj	14797 Nov 10 09:00	4° ₹ 05'42	-3°47'56	inferior conj	14798 Oct 22 05:23	14°M56'31 -2	2°01'12
minimum elong	14797 Nov 09 23:45	4° ∡ °20′27	3°43'58	minimum elong	14798 Oct 22 00:26	15°M05'42	1°58'35
min. Earth dist.	14797 Nov 12 17:40	2° х 35′24	0.55434 AU	min. Earth dist.	14798 Oct 25 08:04	12°M38'48	0.57085 AU
	14797 Nov 17 12:44	30°RM		morning rise	14798 Oct 29 17:55	9°M57'43	
morning rise	14797 Nov 18 05:09	29°M43'30		direct	14798 Nov 04 17:25	8°M30'01	
direct	14797 Nov 23 11:00	28°M41'55		morning max el	14798 Nov 18 22:58	15°M55'05	26°37'45
	14797 Nov 29 07:35	0° ∡ 7			14798 Nov 30 09:47	0° ⊀	
morning max el	14797 Dec 07 09:25	5° √ 41'11	25°05'56	asc. node	14798 Dec 10 07:24	16° ∡ ³34'32	
asc. node	14797 Dec 23 10:20	27° ∡ ³33'57			14798 Dec 17 00:41	0°ರ	
	14797 Dec 24 19:05	8°0		morning set	14798 Dec 18 04:51	2° る 29'59	
morning set	14798 Jan 02 18:34	17° る 56'53					
	14798 Jan 08 06:24	0° ≈		superior conj	14798 Dec 24 23:43	17° る 28'42	1°37'29
				minimum elong	14798 Dec 24 23:17	17° පි 26'15	1°38'28
superior conj	14798 Jan 09 12:43	2° ≈ 47'29	1°36'56	max. Earth dist.	14798 Dec 25 14:03	18° る 48'41	1.31283 AU
minimum elong	14798 Jan 09 13:21	2°≈50'57	1°37'49		14798 Dec 30 16:13	0° ≈	
max. Earth dist.	14798 Jan 11 07:36	6°≈42'51	1.31992 AU	evening rise	14798 Dec 31 21:26	2° ≈ 35'39	
evening rise	14798 Jan 16 19:14	18° ≈ 22'55		desc. node	14799 Jan 11 20:10	23° ≈ 45'54	
•	14798 Jan 22 16:54	0° ∀			14799 Jan 15 13:31	0° ∀	
desc. node	14798 Jan 24 23:26	4°){ 10'48		evening max el	14799 Feb 01 03:20	21° ¥ 30′05	27°16'12
	14798 Feb 10 16:59	$0^{\circ}\mathbf{\Upsilon}$		retrograde	14799 Feb 15 03:19	28°) 48'11	
evening max el	14798 Feb 18 20:31	9° Ƴ 09'45	27°34'54	evening set	14799 Feb 21 21:43	26°){ 46′05	
retrograde	14798 Mar 04 17:54	16° Ƴ 36'47		min. Earth dist.	14799 Feb 25 17:51	24°) €00'33	0.60522 AU
evening set	14798 Mar 11 14:27	14° Y 16′50		inferior conj	14799 Feb 28 22:01	21°) 18′03 -2	
min. Earth dist.	14798 Mar 15 08:38	11° Υ 11'44	0.62714 AU	minimum elong	14799 Mar 01 03:10	21°) (07'01	
inferior conj	14798 Mar 18 06:40	8° Υ 21'43		morning rise	14799 Mar 08 11:55	16°) €27'37	
minimum elong	14798 Mar 18 08:38	8°Υ16'55		asc. node	14799 Mar 08 04:51	16°) €32'48	
asc. node	14798 Mar 21 07:23	5°Υ35'22		direct	14799 Mar 10 13:39	16°) 10′15	
morning rise	14798 Mar 25 05:36	3°Υ12'27		morning max el	14799 Mar 17 18:42		17°57'35
direct	14798 Mar 27 12:56	2° Y 47'38		morning mun vi	14799 Mar 25 07:51	0°Υ	17 07 50
morning max el	14798 Apr 03 03:11	6°Υ08'33	17°46'17	morning set	14799 Apr 02 08:31	14° Y 12'43	
morning man er	14798 Apr 18 18:53	0°8	1, 101,	desc. node	14799 Apr 09 22:16	27° Υ 57'33	
morning set	14798 Apr 19 04:51	0° 8 43'32		dese. node	14799 Apr 11 01:52	0°8	
desc. node	14798 Apr 23 01:38	7° 8 27'05			1.77511p1 11 01.02	, 0	
dese. Hode	11770 11p1 23 01.30	7 027 03		superior conj	14799 Apr 12 17:52	2° 8 55'46 -0	0°22'36
superior conj	14798 May 01 04:53	21° 8 15'16	-1°01'33	minimum elong	14799 Apr 12 15:53	2° 8 47'07	
minimum elong	14798 Apr 30 22:56	20° 8 50'35		max. Earth dist.	14799 Apr 20 05:58		1.42606 AU
minimum vieng	14798 May 06 13:18	0°II	1 01 20	evening rise	14799 Apr 26 01:44	25° 8 05'43	12000110
max. Earth dist.	14798 May 07 16:35		1.44328 AU	evening rise	14799 Apr 29 04:45	0°Ⅱ	
evening rise	14798 May 16 01:44	14° Ⅲ 58'47	1.1.1520110		14799 May 19 22:17	0°e 0 −	
evening rise	14798 May 26 00:31	0.ಪ		evening max el	14799 May 28 18:42	10° © 27'02	22°14'21
evening max el	14798 Jun 15 00:16	26°534'36	20°58'10	asc. node	14799 Jun 04 01:56	15° © 16'27	
asc. node	14798 Jun 17 04:54	28°535'30	20 00 10	retrograde	14799 Jun 07 09:12	16° © 04'53	
use. Houe	14798 Jun 19 02:54	0° Ω		evening set	14799 Jun 12 03:19	14° © 05'55	
retrograde	14798 Jun 23 11:30	1° Ω 28'38		inferior conj	14799 Jun 17 09:47		3°02'55
retrograde	14798 Jun 27 11:06	30°Rூ		minimum elong	14799 Jun 17 08:43		3°01'48
evening set	14798 Jun 27 18:25	29°545'46		min. Earth dist.	14799 Jun 17 07:56		0.69035 AU
inferior conj	14798 Jul 03 00:08	23°535'40	3°10'14	morning rise	14799 Jun 22 13:57	1°932'54	0.07033 110
minimum elong	14798 Jul 02 23:59	23°536'13	3°09'17	morning rise	14799 Jun 25 01:05	30°RⅡ	
min. Earth dist.	14798 Jul 03 11:26	22° © 56'30	0.68690 AU	direct	14799 Jun 27 07:14	29° ∏ 33'31	
morning rise	14798 Jul 08 05:17	17°915'43	0.00070 AC	direct	14799 Jun 29 16:26	27 ന 3331	
direct	14798 Jul 13 11:02	17 \$31343 14°\$58'29		morning max el	14799 Jul 06 14:08		21°57'09
desc. node	14798 Jul 20 01:17	17°543'49		desc. node	14799 Jul 06 22:34	5°920'49	<u>-1 3107</u>
morning max el	14798 Jul 24 00:57	21°5916'59	23°25'01	dese. Hode	14799 Jul 00 22:34 14799 Jul 25 17:26	3 €2 049 0° Ω	
morning max ci	14798 Jul 24 00.37	0°Ω	23 23 01	morning set	14799 Jul 23 17.26 14799 Aug 08 05:09	0 δί 20° Ω 41'22	
	14798 Aug 21 06:35	0°mp		morning set	14799 Aug 08 03.09 14799 Aug 13 22:17	20 3 2 41 22 0° m)	
morning set	14798 Aug 21 00:33	10° Mp 38'18		max. Earth dist.	14799 Aug 13 22:17 14799 Aug 13 22:04		1.41729 AU
max. Earth dist.	14798 Aug 27 19.07 14798 Aug 31 20:12	17° Mp 32'21	1.39414 AU	max. Lattii Uist.	17/7/ Aug 13 22.04	27 063701	1.71/2/AU
max. Earm uist.	14798 Sep 07 19:10	0° ⊡	1.37+14 AU	superior conj	14799 Aug 21 15:53	13° Mp 12'26 -	1°17'16
	17/10 оср 0/ 17.10	0 ==		superior conj	17177 Aug 41 13.33	- 10 בו עוו כו	1 1/10

14800 Jun 22 19:43

14800 Jun 27 12:28

desc. node

23°**I**52'19

0ಂತಾ

14801 Jun 09 16:45

14801 Jun 14 01:56

desc. node

greatest brilliancy

13°**Ⅱ**03'47

19°**耳**20'55 -0.7m

	14801 Jun 21 04:39	0°©		morning set	14802 Jun 06 10:01	18° Ⅱ 00'37	
morning set	14801 Jun 26 19:42	8°935'44		morning sec	14802 Jun 14 02:14	0°9	
max. Earth dist.	14801 Jul 08 21:35	27°521'53	1.45115 AU	max. Earth dist.	14802 Jun 21 16:00	11°5948'37	1.45840 AU
	14801 Jul 10 13:38	$0^{\circ}\Omega$					
				superior conj	14802 Jun 22 12:33	13° © 08'53	-2°12'35
superior conj	14801 Jul 13 00:48	3° Ω 55′07		minimum elong	14802 Jun 22 09:47	12°958'04	2°13'33
minimum elong	14801 Jul 13 05:28	4°Ω13'45	2°10'24		14802 Jul 03 05:59	0° Ω	
evening rise	14801 Jul 27 02:51	26° Ω 56′20		evening rise	14802 Jul 08 01:32	7° Ω 38'57	0.0
	14801 Jul 28 22:53	0° Mp		greatest brilliancy asc. node	14802 Jul 15 03:23	18° Ω 54'37 28° Ω 58'22	-0.9m
asc. node evening max el	14801 Aug 03 19:57 14801 Aug 14 11:25	9° Mp 43'31 24° Mp 34'45	18°10'36	asc. node	14802 Jul 21 16:38 14802 Jul 22 09:37	28° 3 (38°22 0° m)	
retrograde	14801 Aug 20 20:02	27° m 55'58	18 10 30	evening max el	14802 Jul 22 09:37	8° m) 17'05	18°37'01
evening set	14801 Aug 23 16:12	27° m/ 12'53		retrograde	14802 Aug 04 13:05	11° m) 48'58	10 37 01
inferior conj	14801 Aug 29 17:55	21° m/50'22	1°55'29	evening set	14802 Aug 07 18:15	10° mp 50'14	
minimum elong	14801 Aug 29 20:19	21° m/43'40	1°54'31	inferior conj	14802 Aug 13 10:15	5° Mp 12'42	2°35'10
min. Earth dist.	14801 Sep 01 07:03	19° m 00'06	0.63707 AU	minimum elong	14802 Aug 13 12:24	5° Mp 06'06	2°34'11
morning rise	14801 Sep 04 22:35	15° m 33'44		min. Earth dist.	14802 Aug 15 09:38	2° Mp 47'52	0.65637 AU
desc. node	14801 Sep 05 14:03	15°Mp05'16			14802 Aug 17 22:18	30°R Ω	
direct	14801 Sep 11 13:31	13° m 01'14		morning rise	14802 Aug 19 05:28	28° Ω 48'29	
morning max el	14801 Sep 25 10:26	21° m 01'32	27°42'16	desc. node	14802 Aug 23 11:33	26° Ω 26'33	
	14801 Oct 03 05:26	0° Մ		direct	14802 Aug 25 14:44	26° Ω 09'37	
morning set	14801 Oct 22 15:52 14801 Oct 30 07:14	14°M29'06		morning max el	14802 Sep 03 11:00 14802 Sep 07 21:37	0°Mp 4°Mp00'18	26053138
asc. node	14801 Oct 30 07:14	15°M42'55		morning max ci	14802 Sep 07 21:37 14802 Sep 27 15:43	0∘ ⊽	20 33 30
max. Earth dist.	14801 Nov 04 03:43	24°M29'10	1.32362 AU	morning set	14802 Oct 13 14:33	ა — 27° ჲ 36'26	
	14801 Nov 06 17:31	0° ∡ ¹		5 5 2 1 1	14802 Oct 14 20:18	0° M .	
				asc. node	14802 Oct 17 18:36	5°M47'54	
superior conj	14801 Nov 07 04:17	0° ∡ ¹58'17	1°03'35	max. Earth dist.	14802 Oct 17 18:10	5°M45'42	1.33820 AU
minimum elong	14801 Nov 07 01:58	0° ∡ ¹45'44	1°04'04				
evening rise	14801 Nov 14 01:24	15° ∡ ′57′22		superior conj	14802 Oct 22 05:35	14°M58'46	0°40'35
	14801 Nov 20 22:18	0° ろ		minimum elong	14802 Oct 22 03:39	14°M48'37	0°40'52
desc. node	14801 Dec 02 10:56	18°る23'53	22017125	evening rise	14802 Oct 29 11:34	0° х ⁷ 23′08	
evening max el	14801 Dec 07 03:57 14801 Dec 17 21:07	23°る39'08 0°≈	23°17'35		14802 Oct 29 07:11 14802 Nov 15 08:56	0° ズ 0°る	
retrograde	14801 Dec 17 21:07 14801 Dec 20 11:10	0 ∞ 0°≈15'15		evening max el	14802 Nov 18 17:06	3° る 42'13	21°37'18
retrograde	14801 Dec 23 02:08	30°Rる		desc. node	14802 Nov 19 08:04	4° ප 18'06	21 37 10
evening set	14801 Dec 24 19:28	29° ට 34'15		retrograde	14802 Nov 30 22:56	9° ට 45'52	
min. Earth dist.	14801 Dec 31 14:10	26° පි 23'11	0.55017 AU	evening set	14802 Dec 03 23:12	9° ට 25'19	
inferior conj	14802 Jan 02 00:45	25° る 33'07	-5°55'14	inferior conj	14802 Dec 12 17:01	5° る 33'26	-5°48'48
minimum elong	14802 Jan 02 04:14	25° る 28'04	5°54'01	minimum elong	14802 Dec 12 11:23	5° ප් 41'21	5°47'09
morning rise	14802 Jan 10 14:33	21° る 42'00		min. Earth dist.	14802 Dec 12 19:58	5° ප 29'19	0.54451 AU
direct	14802 Jan 13 09:45	21° る 23'16		morning rise	14802 Dec 21 00:13	1°る45'05	
morning max el	14802 Jan 24 13:15	26°る44'29	20°38'01	direct	14802 Dec 24 18:15	1°る14'24 7°る18'52	2201 5122
asc. node	14802 Jan 26 21:09 14802 Jan 27 13:22	29°る12'12 0°≈		morning max el asc. node	14803 Jan 06 08:22 14803 Jan 13 18:26	16° る 14'20	22-15-25
morning set	14802 Feb 12 10:22	27°≈22'27		use. Houe	14803 Jan 21 21:42	0°≈	
morning sec	14802 Feb 13 16:49	0° ∀					
		$^{\circ}$ $^{\circ}$		morning set	14803 Jan 27 21:01		
	14002100 13 10.47	0 A		morning set		12°≈06'34	
superior conj	14802 Feb 19 22:12	0 X 12° ¥ 52'20	1°06'50	morning set superior conj		12° ≈ 06'34	1°23'36
superior conj minimum elong			1°06'50 1°06'52		14803 Jan 27 21:01	12° ≈ 06'34	1°23'36 1°24'01
minimum elong max. Earth dist.	14802 Feb 19 22:12	12°¥52′20 13°¥05′42 23°¥23′30		superior conj	14803 Jan 27 21:01 14803 Feb 03 22:21	12°≈06'34 27°≈10'05 27°≈21'24 0°₩	1°24'01
minimum elong	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49	12°\\$52'20 13°\\$05'42 23°\\$23'30 29°\\$34'24	1°06'52	superior conj minimum elong max. Earth dist.	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04	12°≈06'34 27°≈10'05 27°≈21'24 0° ₩ 5° ₩ 12'45	
minimum elong max. Earth dist. desc. node	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21	12°¥52'20 13°¥05'42 23°¥23'30 29°¥34'24 0°Υ	1°06'52	superior conj minimum elong max. Earth dist. evening rise	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22	12°≈06'34 27°≈10'05 27°≈21'24 0° ₩ 5° ₩ 12'45 13° ₩ 56'19	1°24'01
minimum elong max. Earth dist.	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06	12° \ 52'20 13° \ \ 05'42 23° \ \ 23'30 29° \ \ 34'24 0° \ \ 0° \ \ 0° \ \ 40'19	1°06'52	superior conj minimum elong max. Earth dist.	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34	1°24'01
minimum elong max. Earth dist. desc. node evening rise	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37	12°¥52'20 13°¥05'42 23°¥23'30 29°¥34'24 0°° 0°¥40'19 0°8	1°06'52 1.36022 AU	superior conj minimum elong max. Earth dist. evening rise	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° ℉	1°24'01
minimum elong max. Earth dist. desc. node evening rise evening max el	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37	12°¥52'20 13°¥05'42 23°¥23'30 29°¥34'24 0°°Y 0°Y40'19 0°♥ 22°♥04'50	1°06'52	superior conj minimum elong max. Earth dist. evening rise desc. node	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40	12°≈06'34 27°≈10'05 27°≈21'24 0° ₩ 5° ₩ 12'45 13° ₩ 56'19 19° ₩ 55'34 0° Ψ' 0° ℧	1°24'01 1.34118 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19	12° ¥52'20 13° ¥05'42 23° ¥23'30 29° ¥34'24 0° Υ 0° Υ40'19 0° ႘ 22° ႘04'50 29° ႘22'34	1°06'52 1.36022 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Mar 19 02:24	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° ℉ 0° ♉ 5° ♉45'46	1°24'01
minimum elong max. Earth dist. desc. node evening rise evening max el	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37	12°¥52'20 13°¥05'42 23°¥23'30 29°¥34'24 0°°Y 0°Y40'19 0°♥ 22°♥04'50	1°06'52 1.36022 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40	12°≈06'34 27°≈10'05 27°≈21'24 0° ₩ 5° ₩ 12'45 13° ₩ 56'19 19° ₩ 55'34 0° Ψ' 0° ℧	1°24'01 1.34118 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16	12°¥52'20 13°¥05'42 23°¥23'30 29°¥34'24 0°℃ 0°℃40'19 0°℧ 22°℧04'50 29°℧22'34 26°℧51'39	1°06'52 1.36022 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Mar 19 02:24 14803 Apr 01 11:13	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° ℉ 0° ♉ 5° ♉45'46 13° ♉14'12	1°24'01 1.34118 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16 14802 Apr 24 17:40	12° ¥52'20 13° ¥05'42 23° ¥23'30 29° ¥34'24 0° Υ 0° Υ40'19 0° 8 22° 804'50 29° 822'34 26° 851'39 26° 835'55	1°06'52 1.36022 AU 26°05'25	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Mar 19 02:24 14803 Apr 01 11:13 14803 Apr 08 00:10	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° ℉ 0° ♉ 5° Წ45'46 13° Წ14'12 10° Წ42'22	1°24'01 1.34118 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16 14802 Apr 24 17:40 14802 Apr 28 14:07 14802 Apr 30 06:26 14802 Apr 30 04:24	12° ¥52'20 13° ¥05'42 23° ¥23'30 29° ¥34'24 0° Υ 0° Υ40'19 0° 8 22° 804'50 29° 822'34 26° 851'39 26° 835'55 22° 827'32 20° 822'06 20° 828'24	1°06'52 1.36022 AU 26°05'25 0.67216 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Apr 01 11:13 14803 Apr 08 00:10 14803 Apr 11 15:04 14803 Apr 11 22:54 14803 Apr 14 03:39	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° Ƴ 0° ℋ 5° ♉45'46 13° ♉14'12 10° ♉42'22 7° ♉13'33 6° ♉51'46 4° Წ20'17	1°24'01 1.34118 AU 26°59'52 0.65732 AU 0°47'00
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16 14802 Apr 24 17:40 14802 Apr 28 14:07 14802 Apr 30 06:26 14802 Apr 30 04:24 14802 May 05 23:19	12° ¥52'20 13° ¥05'42 23° ¥23'30 29° ¥34'24 0° Υ 0° Υ40'19 0° ¥ 22° 804'50 29° 822'34 26° 851'39 26° 835'55 22° 827'32 20° 822'06 20° 828'24 14° 836'15	1°06'52 1.36022 AU 26°05'25 0.67216 AU 1°37'58	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Apr 01 11:13 14803 Apr 08 00:10 14803 Apr 11 15:04 14803 Apr 11 22:54 14803 Apr 14 03:39 14803 Apr 14 03:39	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° ሦ 0° ℋ 5° ℀45'46 13° ℧14'12 10° ℧42'22 7° ℧13'33 6° ℧51'46 4° ℧20'17 4° ℧23'45	1°24'01 1.34118 AU 26°59'52 0.65732 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16 14802 Apr 24 17:40 14802 Apr 28 14:07 14802 Apr 30 06:26 14802 Apr 30 04:24 14802 May 05 23:19 14802 May 09 05:25	12° ¥ 52'20 13° ¥ 05'42 23° ¥ 23'30 29° ¥ 34'24 0° Υ 0° Υ 40'19 0° ℧ 22° ℧ 04'50 29° ℧ 22'34 26° ℧ 55'39 26° ℧ 35'55 22° ℧ 27'32 20° ℧ 22'06 20° ℧ 28'24 14° ℧ 36'15 13° ℧ 36'05	1°06'52 1.36022 AU 26°05'25 0.67216 AU 1°37'58 1°36'35	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Apr 01 11:13 14803 Apr 01 11:13 14803 Apr 08 00:10 14803 Apr 11 15:04 14803 Apr 11 22:54 14803 Apr 14 03:39 14803 Apr 14 02:27 14803 Apr 18 09:40	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° Ƴ 0° ℋ 5° ℧45'46 13° ℧14'12 10° ℧42'22 7° ℧13'33 6° ℧51'46 4° ℧20'17 4° ℧23'45 30° ℞ ♈	1°24'01 1.34118 AU 26°59'52 0.65732 AU 0°47'00
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16 14802 Apr 24 17:40 14802 Apr 28 14:07 14802 Apr 30 06:26 14802 Apr 30 04:24 14802 May 05 23:19 14802 May 09 05:25 14802 May 15 19:59	12° ¥ 52'20 13° ¥ 05'42 23° ¥ 23'30 29° ¥ 34'24 0° Υ 0° Υ 40'19 0° ௧ 22° ௧ 04'50 29° ℇ 22'34 26° ℇ 51'39 26° ௧ 35'55 22° ௧ 27'32 20° ℇ 22'06 20° ℇ 28'24 14° ℇ 36'15 13° ℇ 36'05 17° ℇ 08'13	1°06'52 1.36022 AU 26°05'25 0.67216 AU 1°37'58	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Apr 01 11:13 14803 Apr 01 11:13 14803 Apr 01 11:13 14803 Apr 11 15:04 14803 Apr 11 22:54 14803 Apr 14 03:39 14803 Apr 14 02:27 14803 Apr 18 09:40 14803 Apr 18 09:40 14803 Apr 20 06:12	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° Ƴ 0° ℋ 5° ♉45'46 13° ♉14'12 10° ♉42'22 7° ♉13'33 6° ♉51'46 4° ♉20'17 4° ♉23'45 30° ℞ ♈ 28° ♈46'31	1°24'01 1.34118 AU 26°59'52 0.65732 AU 0°47'00
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	14802 Feb 19 22:12 14802 Feb 20 00:50 14802 Feb 25 05:22 14802 Feb 28 11:49 14802 Feb 28 17:21 14802 Mar 01 02:06 14802 Mar 18 21:37 14802 Apr 05 12:37 14802 Apr 18 06:19 14802 Apr 24 10:16 14802 Apr 24 17:40 14802 Apr 28 14:07 14802 Apr 30 06:26 14802 Apr 30 04:24 14802 May 05 23:19 14802 May 09 05:25	12° ¥ 52'20 13° ¥ 05'42 23° ¥ 23'30 29° ¥ 34'24 0° Υ 0° Υ 40'19 0° ௧ 22° ௧ 04'50 29° ௧ 22'34 26° ௧ 51'39 26° ௧ 35'55 22° ௧ 27'32 20° ௧ 22'06 20° ௧ 28'24 14° ௧ 36'15 13° ௧ 36'05	1°06'52 1.36022 AU 26°05'25 0.67216 AU 1°37'58 1°36'35	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	14803 Jan 27 21:01 14803 Feb 03 22:21 14803 Feb 04 00:29 14803 Feb 05 06:37 14803 Feb 07 19:04 14803 Feb 12 04:22 14803 Feb 15 08:21 14803 Feb 21 00:32 14803 Mar 13 17:40 14803 Apr 01 11:13 14803 Apr 01 11:13 14803 Apr 08 00:10 14803 Apr 11 15:04 14803 Apr 11 22:54 14803 Apr 14 03:39 14803 Apr 14 02:27 14803 Apr 18 09:40	12°≈06'34 27°≈10'05 27°≈21'24 0° ℋ 5° ℋ12'45 13° ℋ56'19 19° ℋ55'34 0° Ƴ 0° ℋ 5° ℧45'46 13° ℧14'12 10° ℧42'22 7° ℧13'33 6° ℧51'46 4° ℧20'17 4° ℧23'45 30° ℞ ♈	1°24'01 1.34118 AU 26°59'52 0.65732 AU 0°47'00

morning max el	14803 Apr 29 10:30	1° 8 21'11	18°05'16	morning max el	14804 Apr 12 03:56	15° Ƴ 28'15	17°48'12
desc. node	14803 May 14 10:28	22° 8 46'13		C	14804 Apr 22 13:16	0°8	
morning set	14803 May 18 02:15	28° 8 41'39		morning set	14804 Apr 28 21:50	10° 8 41'42	
	14803 May 18 21:35	$\Pi^{\circ}0$		desc. node	14804 Apr 30 07:11	13° 8 03'04	
	•				14804 May 10 11:34	$\Pi^{\circ}0$	
superior conj	14803 Jun 01 22:23	22° II 23'55	-1°55'31		-		
minimum elong	14803 Jun 01 13:58	21° Ⅱ 50′51	1°55'52	superior conj	14804 May 11 22:46	2° ∏ 22'50	-1°23'28
max. Earth dist.	14803 Jun 04 12:09	26° Ⅱ 25'48	1.45824 AU	minimum elong	14804 May 11 14:48	1° Ⅱ 50′34	1°23'22
	14803 Jun 06 19:03	0 \circ \mathfrak{s}		max. Earth dist.	14804 May 17 07:44	10° Ⅱ 58'42	1.45071 AU
evening rise	14803 Jun 18 01:07	17° © 26'07		evening rise	14804 May 27 12:34	26° Ⅱ 50'17	
	14803 Jun 26 05:20	$0^{\circ}\Omega$			14804 May 29 14:18	0 \circ \odot	
greatest brilliancy	14803 Jun 30 11:56	6° Ω 27'03	-0.7m		14804 Jun 19 08:19	0 $^{\circ}$ Ω	
asc. node	14803 Jul 08 13:24	17° Ω 44'36		asc. node	14804 Jun 24 10:18	5° Ω 52'53	
evening max el	14803 Jul 12 09:07	22° Ω 06′08	19°20'14	evening max el	14804 Jun 24 12:16	5° Ω 57'51	20°18'37
retrograde	14803 Jul 19 10:15	26° Ω 01'15		retrograde	14804 Jul 02 09:08	10° Ω 27'35	
evening set	14803 Jul 23 00:58	24° Ω 45′29		evening set	14804 Jul 06 10:03	8° Ω 54'18	
inferior conj	14803 Jul 28 10:40	18° Ω 54'17		inferior conj	14804 Jul 11 16:27	2° Ω 50'40	3°09'31
minimum elong	14803 Jul 28 12:03	18° Ω 49'46	2°58'06	minimum elong	14804 Jul 11 16:52	2° Ω 49'16	3°08'36
min. Earth dist.	14803 Jul 29 19:43	17° Ω 06′10	0.67186 AU	min. Earth dist.	14804 Jul 12 11:28	1° Ω 45'41	0.68284 AU
morning rise	14803 Aug 02 22:32	12° Ω 28'52			14804 Jul 13 19:12	30° ₹ 5	
direct	14803 Aug 08 22:40	9° Ω 52'50		morning rise	14804 Jul 16 23:22	26° © 28'07	
desc. node	14803 Aug 10 09:02	10° Ω 00′39		direct	14804 Jul 22 12:08	24° © 02'32	
morning max el	14803 Aug 21 08:37	17° Ω 18′09	25°41'50	desc. node	14804 Jul 27 06:27	25° © 29'10	
	14803 Aug 31 23:27	0° ™			14804 Aug 01 23:52	0 \circ Ω	
	14803 Sep 20 14:45	0∘ ⊽		morning max el	14804 Aug 02 19:12	0° Ω 47'56	24°16'30
morning set	14803 Sep 26 07:41	10° ≏ 04'04			14804 Aug 24 21:20	0° ™	
max. Earth dist.	14803 Sep 29 22:53	16° ≏ 49'40	1.35767 AU	morning set	14804 Sep 07 06:28	21° m 42'39	
asc. node	14803 Oct 04 15:12	25° ≏ 56'06		max. Earth dist.	14804 Sep 10 21:57	28° Mp 07'23	1.38052 AU
					14804 Sep 11 22:59	0∘ ⊽	
superior conj	14803 Oct 05 22:36	28° ≏ 33'23	0°12'04				
minimum elong	14803 Oct 05 21:53	28° ≏ 29'45	0°12'19	superior conj	14804 Sep 18 03:58	11° ≏ 34'16	
behind sun begin	14803 Oct 05 17:50	28° ≏ 09'27		minimum elong	14804 Sep 18 05:24	11° ≏ 41'10	0°20'43
behind sun end	14803 Oct 06 01:55	28° ♀ 50'05		asc. node	14804 Sep 20 11:46	16° Ω 04'09	
	14803 Oct 06 15:45	0°M		evening rise	14804 Sep 26 20:45	28° Ω 40'24	
evening rise	14803 Oct 13 18:49	14°M39'26			14804 Sep 27 12:50	0°M	
	14803 Oct 21 15:30	0° √	20012100	evening max el	14804 Oct 13 09:40	25°M46'39	19°08'20
evening max el	14803 Oct 31 18:14	14° √ 19'58	20°12'08		14804 Oct 19 23:54	0° ∡ 7	
desc. node	14803 Nov 06 05:19	18° ∡ 23'44		retrograde	14804 Oct 22 11:14	0° ₹ 19'53	
retrograde	14803 Nov 11 10:32	19° ₹ 38'55		desc. node	14804 Oct 23 02:42	0° ₹ 18'35	
evening set	14803 Nov 13 13:44	19° 🗷 27'11	40.4212.4	evening set	14804 Oct 24 08:08	0° ₹ 09'03	
inferior conj	14803 Nov 22 10:42	15° ₹ 30'23			14804 Oct 25 00:24	30°RM.	2002152
minimum elong min. Earth dist.	14803 Nov 22 00:37	15° × 45'21	4°39'54 0.54822 AU	inferior conj	14804 Nov 01 19:11	25°M56'05	
	14803 Nov 24 02:37 14803 Nov 30 10:42	14° 尽 31'04 11° 尽 26'00	0.54822 AU	minimum elong min. Earth dist.	14804 Nov 01 11:32 14804 Nov 04 13:13	26°M09'02 24°M04'27	
morning rise direct	14803 Nov 30 10.42 14803 Dec 05 04:42	11° x ⁴2000 10° x ³37'07		morning rise	14804 Nov 09 12:22	21°M19'02	0.30003 AU
morning max el	14803 Dec 18 18:18	10 x 3707 17° x 17'55	24004133	direct	14804 Nov 15 02:23	20°M06'58	
morning max er	14803 Dec 18 18.18 14803 Dec 28 23:56	0°る	24 04 33	morning max el	14804 Nov 29 04:35	20 1100 38 27°1117'08	25°48'14
asc. node	14803 Dec 28 25:30 14803 Dec 31 15:37	4° る 13'19		morning max cr	14804 Dec 01 20:07	27 IIC1708 0° X ⁷	23 48 14
morning set	14804 Jan 12 08:58	26° ප 50'41		asc. node	14804 Dec 17 12:44	22° х 54'48	
morning set	14804 Jan 13 20:03	0°≈		ase. Houe	14804 Dec 21 06:50	0°중	
	14004 Juli 13 20.03	0 /01		morning set	14804 Dec 26 20:21	11° る 29'16	
superior conj	14804 Jan 19 04:30	11° ≈ 42'18	1°33'52	morning sec	1.001.500 20 20.21	11 027 10	
minimum elong	14804 Jan 19 05:45	11° ≈ 49'03	1°34'37	superior conj	14805 Jan 02 14:19	26° る 21'48	1°37'54
max. Earth dist.	14804 Jan 21 16:44	17° ≈ 07'50	1.32631 AU	minimum elong	14805 Jan 02 14:29	26° る 22'46	1°38'51
evening rise	14804 Jan 26 18:11	27° ≈ 40'11	1.52051110	max. Earth dist.	14805 Jan 03 20:56	29° る 11'26	1.31626 AU
	14804 Jan 27 22:08	0°) €			14805 Jan 04 05:44	0°≈	
desc. node	14804 Feb 02 04:58	10°) €04'03		evening rise	14805 Jan 09 16:33	11° ≈ 43'57	
	14804 Feb 14 06:23	0°Υ		desc. node	14805 Jan 19 01:38	29°≈53'25	
evening max el	14804 Feb 29 15:19		27°30'39		14805 Jan 19 03:07	0° ∀	
retrograde	14804 Mar 14 09:19	26° Y '34'53			14805 Feb 09 04:25	0°Υ	
evening set	14804 Mar 21 04:23	24° Υ '08'41		evening max el	14805 Feb 11 01:02	1° Υ 51'07	27°31'15
min. Earth dist.	14804 Mar 24 23:38	20° Υ '48'27	0.63895 AU	retrograde	14805 Feb 24 23:33	9° Υ 14'12	_, _, _,
inferior conj	14804 Mar 27 15:55	18° Υ 01'39		evening set	14805 Mar 03 20:11	7°Υ°00'52	
minimum elong	14804 Mar 27 16:26	18° Υ 00'18	0°16'29	min. Earth dist.	14805 Mar 07 14:32	4°Υ05'28	0.61795 AU
asc. node	14804 Mar 28 12:30	17° Υ '08'30	3 1027	inferior conj	14805 Mar 10 15:55	1°Υ16'45	
morning rise	14804 Apr 03 06:44	12° Υ '42'27		minimum elong	14805 Mar 10 19:09	1° Υ 09'16	
direct	14804 Apr 05 18:26	12° Υ 11'32		minimum ciong	14805 Mar 12 01:46	30° ₹	1 50 55
	- 100 . 21pr 00 10.20	11132			1.000 11141 12 01.40	20 1771	

asc. node	14805 Mar 15 10:00	27°) €25'40		direct	14806 Mar 02 20:39	8° ¥ 59'49	
morning rise	14805 Mar 17 21:08	26° X 15'11		morning max el	14806 Mar 10 10:40	12° ¥ 45'59	18°08'20
direct	14805 Mar 20 01:54	25° H 53'51		morning max er	14806 Mar 22 00:16	12 γ (43 39	18 08 20
			17040151			0 1 7° Υ 28'16	
morning max el	14805 Mar 26 21:09	29°) 19'48	17°48'51	morning set	14806 Mar 26 01:13		
	14805 Mar 27 12:59	0°Υ 22°W 42107		desc. node	14806 Apr 04 00:23	24° Y ′01′29	
morning set	14805 Apr 11 15:28	23° Y 43'07			14006 4 04 20 24	2500021150	0006151
	14805 Apr 15 04:16	0°8		superior conj	14806 Apr 04 20:34	25° Y 31'58	
desc. node	14805 Apr 17 03:49	3° 8 29'27		minimum elong	14806 Apr 04 20:00	25° Y 29'25	0°07'05
				behind sun begin	14806 Apr 04 13:05	24° Y ′58′28	
superior conj	14805 Apr 22 22:06	13° 8 25'48		behind sun end	14806 Apr 05 02:55	26° Y ′00′19	
minimum elong	14805 Apr 22 17:53	13° 8 07'56	0°44'54		14806 Apr 07 09:09	0°8	
max. Earth dist.	14805 Apr 30 00:03	25° 8 09'33	1.43657 AU	max. Earth dist.	14806 Apr 12 11:16	8° 8 43'26	1.41738 AU
	14805 May 03 00:25	0°Щ		evening rise	14806 Apr 17 11:51	16° 8 59'27	
evening rise	14805 May 07 03:57	6° Ⅱ 31′29			14806 Apr 25 19:27	Π °0	
	14805 May 22 21:00	0			14806 May 17 16:03	0ಂಣ	
evening max el	14805 Jun 07 09:28	19° © 49'11	21°29'31	evening max el	14806 May 21 01:57	3°540'44	22°48'34
asc. node	14805 Jun 11 07:19	23° © 09'56		asc. node	14806 May 29 04:25	9° © 19'47	
retrograde	14805 Jun 16 07:51	25° © 01'37		retrograde	14806 May 31 04:43	9° © 37'47	
evening set	14805 Jun 20 19:32	23° © 11'28		evening set	14806 Jun 05 03:42	7° 5 32'22	
inferior conj	14805 Jun 26 01:17	16° © 56'53	3°08'25	inferior conj	14806 Jun 10 11:07	1° 5 09'01	2°56'42
minimum elong	14805 Jun 26 00:43	16° © 58'50	3°07'24	minimum elong	14806 Jun 10 09:43	1° © 13'52	2°55'29
min. Earth dist.	14805 Jun 26 06:50	16° © 37'31	0.68898 AU	min. Earth dist.	14806 Jun 10 03:42	1° 9 34'47	0.69029 AU
morning rise	14805 Jul 01 05:43	10° © 39'41			14806 Jun 11 07:03	30° Ŗ Ⅱ	
direct	14805 Jul 06 06:06	8° © 29'57		morning rise	14806 Jun 15 15:37	24° Ⅱ 58'49	
desc. node	14805 Jul 14 03:46	12° © 25'40		direct	14806 Jun 20 03:28	23° Ⅲ 08′00	
morning max el	14805 Jul 16 06:50	14° 5 26'06	22°47'06	morning max el	14806 Jun 28 22:06	28° Ⅱ 12'49	21°21'53
	14805 Jul 28 21:54	$\mathfrak{O}^{\circ} \mathfrak{O}$			14806 Jun 30 15:01	0 ° \mathfrak{S}	
	14805 Aug 17 19:44	0° m y		desc. node	14806 Jul 01 00:58	0°927'33	
morning set	14805 Aug 19 06:43	2° m 22'39			14806 Jul 22 11:49	$0^{\circ}\Omega$	
max. Earth dist.	14805 Aug 23 21:27	10° m 05'06	1.40426 AU	morning set	14806 Jul 30 06:34	11° Ω 59'49	
	Č	•		max. Earth dist.	14806 Aug 06 01:44	22° Ω 53'56	1.42617 AU
superior conj	14805 Aug 31 17:37	23° m 51'58	-0°56'49		14806 Aug 10 08:32	o∘ mp	
minimum elong	14805 Aug 31 21:59	24° m/11'46			Č	•	
•	14805 Sep 04 01:45	0∘ ⊽		superior conj	14806 Aug 13 11:04	5° m 16'19	-1°31'35
asc. node	14805 Sep 07 08:21	6° £ 08'34		minimum elong	14806 Aug 13 18:06	5° m) 46'28	
evening rise	14805 Sep 10 14:16	12° ≏ 18'08		evening rise	14806 Aug 24 19:18	25° m/21'38	
8	14805 Sep 20 10:45	0°M₊		asc. node	14806 Aug 25 04:56	26° m) 05'11	
evening max el	14805 Sep 26 12:54	8° M 00'07	18°26'34		14806 Aug 27 08:59	0∘ <u>⊽</u>	
retrograde	14805 Oct 04 06:59	11°M55'58		evening max el	14806 Sep 09 23:41	20° ჲ 50'38	18°05'26
evening set	14805 Oct 06 06:54	11° M 41'04		retrograde	14806 Sep 16 20:34	24° ≏ 21'54	
desc. node	14805 Oct 10 00:08	10°M02'51		evening set	14806 Sep 19 03:32	23° £ 58'41	
inferior conj	14805 Oct 14 01:00	7° M 07'35	-1°17'23	inferior conj	14806 Sep 26 03:51	19° ≏ 04'42	0°13'48
minimum elong	14805 Oct 13 21:59	7°M13'33		minimum elong	14806 Sep 26 04:18	19° ഫ 03'39	0°13'51
min. Earth dist.	14805 Oct 17 06:44	4°M34'12	0.57948 AU	transit middle	14806 Sep 26 04:18	19° ഫ 03'39	0°13'51
morning rise	14805 Oct 21 09:33	1°M52'55	0.077.0110	transit begin	14806 Sep 26 02:35	19° ≏ 07'38	0 13 51
direct	14805 Oct 27 14:30	0°M13'56		transit end	14806 Sep 26 06:02	18° ♀ 59'40	
morning max el	14805 Nov 10 21:40	7°M48'10	27°07'54	desc. node	14806 Sep 26 21:37	18° ≏ 23'34	
morning max or	14805 Nov 27 14:27	0° ₹	27 0731	min. Earth dist.	14806 Sep 29 08:56	16° ⊆ 08'19	0.60183 AU
asc. node	14805 Dec 04 09:44	12° ×7 07'31		morning rise	14806 Oct 03 01:51	13° ⊆ 18'23	0.00103710
morning set	14805 Dec 11 05:28	25° × 57'45		direct	14806 Oct 09 15:45	11° ≏ 13'23	
morning set	14805 Dec 13 02:18	0°る		morning max el	14806 Oct 23 22:27	19° ≏ 04'37	27°51'36
	14003 Dec 13 02.16	0 0		morning max ci	14806 Nov 02 05:03	0°M	27 31 30
superior conj	14805 Dec 18 01:46	11° そ 03'01	1025'55		14806 Nov 20 09:43	0° ⊼ ¹	
minimum elong	14805 Dec 18 00:54	11 3 0301	1°36'53	asc. node	14806 Nov 21 06:38	1° ∡ 42′25	
max. Earth dist.	14805 Dec 18 04:36	10 3 3810	1.31135 AU	morning set	14806 Nov 25 10:22	10°×10'29	
		26° る 01'49	1.51155 AU	max. Earth dist.		23° x 20'54	1.31179 AU
evening rise	14805 Dec 24 21:05	20 3 01 49 0° ≈		max. Earth dist.	14806 Dec 01 12:02	23 8 20 34	1.311/9 AU
daga mada	14805 Dec 26 18:20 14806 Jan 05 22:25	0°≈ 19°≈16'13		gunorier con:	14806 Dec 02 12:58	250.720142	1°28'01
desc. node	14806 Jan 05 22:25 14806 Jan 12 17:59	19°≈1613		superior conj minimum elong	14806 Dec 02 12:58 14806 Dec 02 11:14	25° ₹ 39'43 25° ₹ 30'07	1°28'01 1°28'51
avanina may al		13° ∺ 49'46	26°57'30	mmmum eiong		25° x '30'07	1 40 31
evening max el	14806 Jan 24 04:54		20 3/30	ovonina rica	14806 Dec 04 11:36		
retrograde	14806 Feb 07 04:49	21° X 03'41		evening rise	14806 Dec 09 05:35	10°る27'53	
evening set	14806 Feb 13 20:19	19° ¥ 10'51	0.50570 411	dogo == -1-	14806 Dec 19 01:13	0°≈ °°≈ •01!2°	
min. Earth dist.	14806 Feb 17 19:03	16° ¥ 30′50	0.59579 AU	desc. node	14806 Dec 23 19:17	8°≈01'38	25050100
inferior conj	14806 Feb 21 00:01	13° ¥ 56'17		evening max el	14807 Jan 06 00:52	24°≈55'55	25°50'00
minimum elong	14806 Feb 21 06:36	13°) (43′01	2~54′38		14807 Jan 12 19:14	0°) €	
morning rise	14806 Feb 28 20:16	9°) 15′06		retrograde	14807 Jan 19 23:14	1° ¥ 58'07	
asc. node	14806 Mar 02 07:27	9° ∺ 00'59		evening set	14807 Jan 26 00:53	0° ∺ 32'21	

	14807 Jan 27 03:12	30°R≈		evening set	14808 Jan 06 06:26	11° ≈ 06'09	
min. Earth dist.	14807 Jan 30 13:52	27°≈54'07	0.57463 AU	min. Earth dist.	14808 Jan 12 00:50	8°≈12'42	0.55732 AU
inferior conj	14807 Feb 02 12:45	25°≈50'40		inferior conj	14808 Jan 14 04:29	6°≈53'49	
minimum elong	14807 Feb 02 21:46	25°≈34'55	4°20'13	minimum elong	14808 Jan 14 11:50	6° ≈ 42'35	
morning rise	14807 Feb 10 21:35	21° ≈ 31'02		morning rise	14808 Jan 22 19:06	2° ≈ 54'00	
direct	14807 Feb 12 22:26	21° ≈ 18′04		direct	14808 Jan 25 04:52	2° ≈ 38'50	
asc. node	14807 Feb 17 04:53	22° ≈ 18'43		asc. node	14808 Feb 04 02:16	7°≈16'20	
morning max el	14807 Feb 21 16:25	25° ≈ 35'10	18°48'29	morning max el	14808 Feb 04 10:13	7° ≈ 35'16	19°51'18
-	14807 Feb 25 11:02	0°)		_	14808 Feb 18 23:28	0°)	
morning set	14807 Mar 09 22:13	21°) 42'54		morning set	14808 Feb 22 02:40	6°) 15'41	
	14807 Mar 14 03:58	0° Υ					
				superior conj	14808 Feb 29 22:58	22°) €08'14	0°54'08
superior conj	14807 Mar 18 14:22	8° Y 30'22	0°26'46	minimum elong	14808 Mar 01 01:34	22°) €21'04	0°53'59
minimum elong	14807 Mar 18 16:04	8° Y '38'22	0°26'27		14808 Mar 04 23:53	0° Y	
desc. node	14807 Mar 21 20:55	14° Ƴ 35'33		max. Earth dist.	14808 Mar 07 00:57	3° Y 51′19	1.37261 AU
max. Earth dist.	14807 Mar 25 18:23	21° Y 35'21	1.39525 AU	desc. node	14808 Mar 07 17:24	5° Ƴ 07'44	
evening rise	14807 Mar 29 16:57	28° Y ′23'35		evening rise	14808 Mar 10 18:11	10° Y ′38′25	
	14807 Mar 30 15:51	0°8			14808 Mar 22 08:27	0°8	
	14807 Apr 19 06:52	Π °0			14808 Apr 13 18:49	0∘Щ	
evening max el	14807 May 03 16:04	17° Ⅱ 34'30	24°09'52	evening max el	14808 Apr 15 05:38	1° Ⅱ 28'16	25°26'27
retrograde	14807 May 14 22:26	24° Ⅱ 10'42		retrograde	14808 Apr 27 11:44	8°Ⅲ33'31	
asc. node	14807 May 16 01:35	24° Ⅱ 05'06		asc. node	14808 May 01 22:51	7° Ⅱ 10'39	
evening set	14807 May 20 08:58	21° Ⅱ 52'34	0.60605.477	evening set	14808 May 03 09:40	6° Ⅱ 06'03	0.65000 177
min. Earth dist.	14807 May 24 23:54	16° Ⅱ 31'45	0.68685 AU	min. Earth dist.	14808 May 07 17:14	1° Ⅱ 21'38	0.67882 AU
inferior conj	14807 May 25 20:03	15° Ⅱ 23'29	2°34'38		14808 May 08 18:33	30°R 8	2001154
minimum elong	14807 May 25 18:05	15° ∏ 30'11	2°33'14	inferior conj	14808 May 09 02:08	29° 8 35'26	2°01'54
morning rise	14807 May 31 03:15	9° П 21'38 7° П 50'58		minimum elong	14808 May 08 23:59	29° 8 42'25	2°00'27
direct	14807 Jun 04 03:01 14807 Jun 11 19:43	7°Щ30'38 12°Щ10'20	20°07'15	morning rise direct	14808 May 14 14:42	23° 8 43'17 22° 8 32'20	
morning max el desc. node	14807 Jun 17 19:43	12 H 10 20 19° H 17'37	20 07 13	morning max el	14808 May 18 03:04 14808 May 25 00:47	26° 8 17'40	19°06'59
desc. node	14807 Jun 25 14:44	19 ш 1/3/		morning max er	14808 May 28 08:55	20 3 1740 0° Ⅱ	19 00 39
morning set	14807 Jul 09 12:14	20°\$52'05		desc. node	14808 Jun 03 19:01	8° Ⅱ 42'25	
morning set	14807 Jul 15 09:23	0°Ω		greatest brilliancy	14808 Jun 07 00:09	13° Ⅱ 26'42	-0.7m
max. Earth dist.	14807 Jul 19 12:50		1.44376 AU	morning set	14808 Jun 17 17:20	29° I I48'19	0.7111
max. Lartii dist.	14007 341 17 12.50	0 0032 42	1.44570710	morning set	14808 Jun 17 20:22	0°95	
superior conj	14807 Jul 25 05:10	15° Ω 41'54	-1°59'32	max. Earth dist.	14808 Jul 01 05:42	20°9548'07	1.45516 AU
minimum elong	14807 Jul 25 12:11	16° Ω 10'31					
	14807 Aug 02 19:25	0° m)		superior conj	14808 Jul 04 01:17	25° © 13'44	-2°13'23
evening rise	14807 Aug 07 06:53	7° m/38'52		minimum elong	14808 Jul 04 03:06	25°9520'54	
asc. node	14807 Aug 12 01:33	15° m 50'01		Č	14808 Jul 07 01:40	$0^{\circ}\Omega$	
	14807 Aug 21 01:38	0∘ ⊽		evening rise	14808 Jul 18 19:52	18° Ω 57'17	
evening max el	14807 Aug 24 14:01	4° ഫ 08'31	18°03'28		14808 Jul 25 14:27	0° m	
retrograde	14807 Aug 31 00:09	7° م 29'08		asc. node	14808 Jul 28 22:11	5° m 17'19	
evening set	14807 Sep 02 15:27	6° ≙ 54'01		evening max el	14808 Aug 07 04:17	17° m 43'49	18°19'44
inferior conj	14807 Sep 09 00:25	1° ≏ 41'20	1°24'12	retrograde	14808 Aug 13 13:25	21°M)07'41	
minimum elong	14807 Sep 09 02:31	1° ≏ 35'48	1°23'25	evening set	14808 Aug 16 13:28	20° m 17'59	
	14807 Sep 10 14:53	30°R Mp		inferior conj	14808 Aug 22 10:36	14° M 48'45	2°14'22
min. Earth dist.	14807 Sep 11 20:40	28° m 43'23	0.62471 AU	minimum elong	14808 Aug 22 12:59	14° m)41'47	2°13'24
desc. node	14807 Sep 13 19:06	26° TQ 53'41		min. Earth dist.	14808 Aug 24 17:58	12°Mp07'57	0.64573 AU
morning rise	14807 Sep 15 11:16	25° TD 33'13		morning rise	14808 Aug 28 11:03	8° Mg 28'15	
direct	14807 Sep 22 03:39	23° m 08'18		desc. node	14808 Aug 30 16:36	6° m 59'00	
	14807 Oct 05 01:24	0∘ ⊽		direct	14808 Sep 04 00:09	5° TQ 52'06	
morning max el	14807 Oct 06 05:17	1° Ω 07'36	27°56'07	morning max el	14808 Sep 17 15:39	13° m 49'08	27°25'02
1	14807 Oct 27 10:00	0°M			14808 Sep 30 18:19	0∘ ѿ	
asc. node	14807 Nov 08 03:27	21°M33'06			14808 Oct 19 01:07	0°M 7°M 20111	
morning set	14807 Nov 09 08:58 14807 Nov 12 05:44	24°M₀2'31 0°⊀		morning set asc. node	14808 Oct 22 22:45 14808 Oct 25 00:10	7° ጤ 28'11 11° ጤ 34'13	
may Earth dist		5° √ 109'40	1.31776 AU	max. Earth dist.			1 32022 AII
max. Earth dist.	14807 Nov 14 15:34	3 X U9 40	1.31//0 AU	max. Earm alst.	14808 Oct 27 11:45	16°M39'12	1.32922 AU
superior conj	14807 Nov 16 22:00	10° ∡ ¹06'48	1°14'13	superior conj	14808 Oct 31 02:49	24°M18'50	0°54'33
minimum elong	14807 Nov 16 19:46	9° x ⁷ 54'29	1°14'13 1°14'50	minimum elong	14808 Oct 31 02:49	24°M06'49	0°54'56
evening rise	14807 Nov 23 16:11	24° х 57'40	1 1.50	Ciong	14808 Nov 02 18:06	0° √ ¹	5 5 . 50
2. J	14807 Nov 26 01:00	0°る		evening rise	14808 Nov 07 03:05	9° × ⁷ 26'40	
desc. node	14807 Dec 10 16:14	25°පි56'00			14808 Nov 17 15:43	0°る	
	14807 Dec 13 18:11	0° ≈		desc. node	14808 Nov 26 13:19	12° る 41'06	
evening max el	14807 Dec 18 13:11	5° ≈ 15'39	24°16'44	evening max el	14808 Nov 28 23:11	15° る 13'53	22°33'47
retrograde	14808 Jan 01 04:25	12° ≈ 02'36		retrograde	14808 Dec 11 20:57	21° る 37'39	
S				J			

		_				_	
evening set	14808 Dec 15 15:30	21° る 06'30		retrograde	14809 Nov 22 07:27	1° る 14'17	
min. Earth dist.	14808 Dec 23 07:09	17° る 38'40	0.54670 AU	evening set	14809 Nov 24 20:53	0° る 58'41	
inferior conj	14808 Dec 24 02:34	17° る 11'18	-6°00'03		14809 Nov 28 01:26	30°₽ ⋌ 7	
minimum elong	14808 Dec 24 02:11	17° る 11'50	5°59'04	inferior conj	14809 Dec 03 17:36	27° ∡ ¹05'56	-5°27'29
morning rise	14809 Jan 01 14:06	13° る 23'43		minimum elong	14809 Dec 03 09:07	27° ∡ 18′00	5°24'55
direct	14809 Jan 04 18:36	13° る 00'38		min. Earth dist.	14809 Dec 04 12:47	26° ∡ ³38'38	0.54489 AU
morning max el	14809 Jan 16 13:23	18° ප් 40'04	21°17'11	morning rise	14809 Dec 11 21:37	23° ∡ 13′23	
asc. node	14809 Jan 20 23:36	23° る 38'39		direct	14809 Dec 16 01:50	22° ∡ ³35'58	
	14809 Jan 25 09:08	0° ≈		morning max el	14809 Dec 29 03:44	28° ҂ 56'32	23°01'17
morning set	14809 Feb 05 11:46	20° ≈ 58'30		Ü	14809 Dec 30 05:35	0°₹	
	14809 Feb 09 18:45	0°) €		asc. node	14810 Jan 07 20:51	11° පි 06'54	
	1.009100 09 10.10	٠ , ,		use. noue	14810 Jan 18 05:37	0° ≈	
superior conj	14809 Feb 12 18:29	6° ₩ 14'55	1°14'46	morning set	14810 Jan 20 23:13	5°≈43'35	
minimum elong	14809 Feb 12 20:58		1°14'56	morning set	14010 Jan 20 23.13	3 ~ +3 33	
max. Earth dist.	14809 Feb 17 11:14		1.35172 AU	aumorior aoni	14910 Ion 27 21:22	20° ≈ 40'06	1°28'44
		13 X 46 32 23° X 35'17	1.55172 AU	superior conj	14810 Jan 27 21:32		
evening rise	14809 Feb 21 12:23			minimum elong	14810 Jan 27 23:19	20°≈49'43	1°29'17
desc. node	14809 Feb 22 13:57	25°) ₹34'36		max. Earth dist.	14810 Jan 31 04:16	27°≈37'08	1.33429 AU
	14809 Feb 25 00:08	0° Υ			14810 Feb 01 07:50	0° ∀	
	14809 Mar 15 23:56	0° 8		evening rise	14810 Feb 04 19:57	7° ∺ 04'01	
evening max el	14809 Mar 28 19:22	15° 8 16'29	26°30'55	desc. node	14810 Feb 09 10:32	15° ¥ 51′03	
retrograde	14809 Apr 10 19:53	22° 8 39'29			14810 Feb 17 14:37	0 ° Υ	
evening set	14809 Apr 17 04:06	20° 8 07'22		evening max el	14810 Mar 11 08:46	28° Ƴ 49'18	27°16'05
asc. node	14809 Apr 18 20:11	18° 8 36'17			14810 Mar 12 14:57	9° 8	
min. Earth dist.	14809 Apr 21 05:36	15° 8 58'00	0.66641 AU	retrograde	14810 Mar 24 22:04	6° 8 19'25	
inferior conj	14809 Apr 23 03:17	13° 8 40'25	1°17'51	evening set	14810 Mar 31 14:11	3° 8 48'44	
minimum elong	14809 Apr 23 01:31	13° 8 45'46	1°16'36	min. Earth dist.	14810 Apr 04 11:04	0° 8 11'52	0.64995 AU
morning rise	14809 Apr 28 23:58	7° 8 59'36			14810 Apr 04 15:28	30°R Ƴ	
direct	14809 May 02 01:50	7° 8 06'36		asc. node	14810 Apr 05 17:36	28° Y ′48'21	
morning max el	14809 May 08 12:30	10° 8 31'03	18°22'57	inferior conj	14810 Apr 06 21:03	27° Υ 32'06	0°21'37
•	•		10 22 37		•	27° Y 33'45	
desc. node	14809 May 21 15:54	28° 8 32'52		minimum elong	14810 Apr 06 20:27		0°21'01
	14809 May 22 14:09	0°II		morning rise	14810 Apr 13 04:33	22° Y ′04'31	
morning set	14809 May 28 17:44	9° Ⅱ 43'18		direct	14810 Apr 15 20:57	21° Y ′26′38	
	14809 Jun 10 14:55	0 \circ		morning max el	14810 Apr 22 04:41	24° Y ′42'58	17°55'54
					14810 Apr 26 15:14	0° 8	
superior conj	14809 Jun 13 09:55	4° © 21'34	-2°07'39	desc. node	14810 May 08 12:41	18° 8 41'39	
minimum elong	14809 Jun 13 04:06	3° © 58'49	2°08'24	morning set	14810 May 09 21:56	20° 8 58'58	
max. Earth dist.	14809 Jun 14 01:36	5° 5 22'43	1.45930 AU		14810 May 15 09:37	Π \circ 0	
evening rise	14809 Jun 29 08:02	29°914'05					
	14809 Jun 29 19:45	$0^{\circ}\Omega$		superior conj	14810 May 24 00:19	13° Ⅲ 51′25	-1°43'15
greatest brilliancy	14809 Jul 08 22:17	14° Ω 12'34	-0.8m	minimum elong	14810 May 23 15:25	13° Ⅱ 16′06	1°43'22
asc. node	14809 Jul 15 18:54	24° Ω 20'46		max. Earth dist.	14810 May 27 21:40	19° Ⅱ 59'27	1.45587 AU
	14809 Jul 20 05:56	0° m/			14810 Jun 03 07:55	0° ©	
evening max el	14809 Jul 21 15:38	1° m) 29'07	18°53'23	evening rise	14810 Jun 09 00:37	8° © 46'24	
retrograde	14809 Jul 28 08:40	5° mp 09'32		greatest brilliancy	14810 Jun 23 04:49	0°Ω08'53	-0.6m
evening set	14809 Jul 31 17:50	4° Mp 03'33		greatest orimaney	14810 Jun 23 02:23	0° Ω	0.0111
evening sec	14809 Aug 04 22:29	30°R Ω		asc. node	14810 Jul 02 15:44	12° Ω 52'19	
inferior conj	14809 Aug 06 06:44	28° Ω 19'44	2°47'02	evening max el	14810 Jul 04 22:02	$15^{\circ}\Omega 19'22$	19°43'20
3	2	28°Ω13'49	2°46'06	•	14810 Jul 12 06:56	$19^{\circ}\Omega 28'29$	19 43 20
minimum elong	14809 Aug 06 08:36			retrograde			
min. Earth dist.	14809 Aug 07 23:55	26° Ω 09'43	0.66344 AU	evening set	14810 Jul 16 01:49	18° Ω 05'21	2005100
morning rise	14809 Aug 11 22:33	21° Ω 54'19		inferior conj	14810 Jul 21 09:45	12° Ω 08'35	3°05'00
desc. node	14809 Aug 17 14:06	19° Ω 17'15		minimum elong	14810 Jul 21 10:44	12° Ω 05'18	3°04'05
direct	14809 Aug 18 04:07	19° Ω 15'57		min. Earth dist.	14810 Jul 22 12:46	10° Ω 38′10	0.67702 AU
morning max el	14809 Aug 31 03:05	26° Ω 57'39	26°25'29	morning rise	14810 Jul 26 19:11	5° Ω 43'42	
	14809 Sep 02 23:20	0° m y		direct	14810 Aug 01 14:34	3° Ω 11'19	
	14809 Sep 24 09:33	0० ऌ		desc. node	14810 Aug 04 11:33	3° Ω 42'58	
morning set	14809 Oct 06 00:31	20° ≏ 19'39		morning max el	14810 Aug 13 14:02	10° Ω 22'09	25°06'40
max. Earth dist.	14809 Oct 09 22:14	27° ≏ 49'43	1.34593 AU		14810 Aug 29 04:41	0° m y	
	14809 Oct 11 00:35	0° M .			14810 Sep 17 00:54	0∘ ত	
asc. node	14809 Oct 11 20:48	1° M .40'58		morning set	14810 Sep 18 10:26	2° ≏ 28'16	
				max. Earth dist.	14810 Sep 21 23:45	8° ≏ 55'36	1.36701 AU
superior conj	14809 Oct 15 00:57	8°ML08'56	0°29'08	uist.	1.010 Sep 21 25.45	5 — 55 56	1.55701710
minimum elong	14809 Oct 13 00:37	8°ML01'01	0°29'23	superior conj	14810 Sep 28 13:29	21° ≏ 30'21	-0°01'31
Č			0 4/43		•		
evening rise	14809 Oct 22 12:17	23°M49'13		minimum elong	14810 Sep 28 13:33	21° £ 30'42	0°01'14
	14809 Oct 25 12:12	0° ∡ ¹	20050110	behind sun begin	14810 Sep 28 07:06	20° £ 58'54	
evening max el	14809 Nov 10 16:31	25° ₹ '27'55	20°58'40	behind sun end	14810 Sep 28 20:00	22° ₾ 02'33	
desc. node	14809 Nov 13 10:32	27° ∡ ¹52'34		asc. node	14810 Sep 28 17:26	21° ≏ 49'52	
	14809 Nov 16 21:47	0°ප			14810 Oct 02 19:12	0° M ₊	

evening rise	14810 Oct 06 17:38	7° ™ 59'57			14811 Sep 24 21:58	0°M₊	
	14810 Oct 18 19:18	0° ∡		evening max el	14811 Oct 06 20:47	18°M13'43	18°48'01
evening max el	14810 Oct 23 23:50	6° ≯ 26′13	19°42'21	retrograde	14811 Oct 15 07:38	22°M29'09	
desc. node	14810 Oct 31 07:51	11° ∡ °04'52		evening set	14811 Oct 17 05:08	22°M17'06	
retrograde	14810 Nov 02 23:31	11° ∡ ¹25′25		desc. node	14811 Oct 18 05:15	22°M01'25	
evening set	14810 Nov 04 22:12	11° ∡ 14'55		inferior conj	14811 Oct 25 09:26	17° M 55'58	-2°17'13
inferior conj	14810 Nov 13 16:20	7° ∡ 12′28	-4°03'22	minimum elong	14811 Oct 25 03:46	18°M06'13	2°14'18
minimum elong	14810 Nov 13 06:41	7° ∡ °27'34	3°59'22	min. Earth dist.	14811 Oct 28 10:25	15°M44'32	0.56804 AU
min. Earth dist.	14810 Nov 15 21:08	5° .∕ ¹49'57	0.55248 AU	morning rise	14811 Nov 01 23:15	13°M02'57	
morning rise	14810 Nov 21 13:27	2° ∡ ′55'13		direct	14811 Nov 07 20:36	11° M 39'15	
direct	14810 Nov 26 16:25	1° ∡ 56'59		morning max el	14811 Nov 22 01:19	19° M 00'30	26°25'56
morning max el	14810 Dec 10 12:53	8° ∡ 751′57	24°50'24		14811 Dec 01 08:05	0° ∡	
asc. node	14810 Dec 25 18:03	29° ∡ ¹25'32		asc. node	14811 Dec 12 15:07	18° ₹ 21'21	
	14810 Dec 26 01:59	ರ°0			14811 Dec 18 12:56	ರ°0	
morning set	14811 Jan 05 11:08	20° る 25'55		morning set	14811 Dec 20 21:46	5° る 00'30	
	14811 Jan 09 20:09	0° ≈					
				superior conj	14811 Dec 27 16:16	19° る 57'24	1°37'46
superior conj	14811 Jan 12 05:32	5° ≈ 16'27	1°36'18	minimum elong	14811 Dec 27 15:59	19°る55'50	1°38'46
minimum elong	14811 Jan 12 06:19	5° ≈ 20'49	1°37'10	max. Earth dist.	14811 Dec 28 10:43	21° ප් 40'17	1.31351 AU
max. Earth dist.	14811 Jan 14 04:44	9° ≈ 34'44	1.32142 AU		14812 Jan 01 05:27	0° ≈	
evening rise	14811 Jan 19 13:44	20°≈57'13		evening rise	14812 Jan 03 15:00	5°≈07'55	
•	14811 Jan 24 03:26	0°) €		desc. node	14812 Jan 14 03:54	25° ≈ 31'31	
desc. node	14811 Jan 27 07:11	5°) 52′08			14812 Jan 16 18:49	0°) €	
	14811 Feb 11 14:09	0° Y		evening max el	14812 Feb 04 04:16	24°) 23'38	27°21'20
evening max el	14811 Feb 21 20:28	11° Y ′55'40	27°34'49	Č	14812 Feb 11 17:21	$0^{\circ}\Upsilon$	
retrograde	14811 Mar 07 17:14	19° Y ′23'33		retrograde	14812 Feb 18 03:59	1° Y 42'54	
evening set	14811 Mar 14 13:30	17° Y ′01'50		Č	14812 Feb 24 07:46	30° ₹	
min. Earth dist.	14811 Mar 18 07:52	13° Y ′52'53	0.63024 AU	evening set	14812 Feb 24 23:08	29°) 37'47	
inferior conj	14811 Mar 21 04:30	11° Y °03'13		min. Earth dist.	14812 Feb 28 18:39	26°) 49′58	0.60853 AU
minimum elong	14811 Mar 21 06:03	10° Y ′59′22		inferior conj	14812 Mar 02 22:16	24°) 05'23	
asc. node	14811 Mar 23 15:04	8° Υ '44'15	0 10 11	minimum elong	14812 Mar 03 02:54	23° H 55'16	
morning rise	14811 Mar 28 01:16	5° Υ 51'16		asc. node	14812 Mar 09 12:33	19°) 30'07	2 00 02
direct	14811 Mar 30 09:39	5° Υ 25'01		morning rise	14812 Mar 10 09:54	19°) 11'51	
morning max el	14811 Apr 05 22:26	8° Υ '44'37	17°46'12	direct	14812 Mar 12 12:20	18°) 53'32	
morning max or	14811 Apr 20 03:46	0°8	17 10 12	morning max el	14812 Mar 19 14:31	22° H 27'05	17°54'39
morning set	14811 Apr 22 03:38	3° 8 27'07		morning max er	14812 Mar 25 11:29	0°Υ	1, 3.3)
desc. node	14811 Apr 25 09:22	9° 8 03'00		morning set	14812 Apr 04 04:53	16° Y 50'07	
desc. Hode	1 1011 11p1 23 07.22	<i>y</i> G 03 00		desc. node	14812 Apr 11 05:57	29° Y 32'40	
superior conj	14811 May 04 09:59	24° 8 16'35	-1°07'25	dese. Hode	14812 Apr 11 12:07	0°8	
minimum elong	14811 May 04 03:27	23° 8 49'38			14012 Apr 11 12.07	٥ ن	
minimum crong	14811 May 07 22:07	0°Ⅱ	1 07 10	superior conj	14812 Apr 14 19:29	5° 8 47'48	-0°28'25
max. Earth dist.	14811 May 10 15:29	4° ∏ 22'34	1.44539 AU	minimum elong	14812 Apr 14 16:57	5° 8 36'47	
evening rise	14811 May 19 11:41	18° Ⅱ 12'33	1.11337110	max. Earth dist.	14812 Apr 22 05:50	18° 8 20'00	1.42896 AU
evening rise	14811 May 27 06:31	0°95		evening rise	14812 Apr 28 09:09	28° 8 12'32	1.12090710
evening max el	14811 Jun 17 22:34	29° © 11'01	20°47'33	evening rise	14812 Apr 29 12:31	0°II	
o ronning musicus	14811 Jun 18 18:46	0°Ω	20 1,755		14812 May 19 22:59	0 	
asc. node	14811 Jun 19 12:40	0° Ω 40'38		evening max el	14812 May 30 17:43	13° © 03'27	22°02'29
retrograde	14811 Jun 26 05:55	3° Ω 58′28		asc. node	14812 Jun 05 09:43	17° © 31'48	0>
evening set	14811 Jun 30 11:15	2° Ω 18'07		retrograde	14812 Jun 09 03:53	18°934'28	
5 · • · · · · · · · · · · · · · · · · ·	14811 Jul 02 18:42	30°R.55		evening set	14812 Jun 13 20:21	16° © 37'41	
inferior conj	14811 Jul 05 17:05	26°509'45	3°10'25	inferior conj	14812 Jun 19 02:34	10°5519'21	3°04'43
minimum elong	14811 Jul 05 17:04	26°\$09'47	3°09'27	minimum elong	14812 Jun 19 01:38	10°522'37	3°03'36
min. Earth dist.	14811 Jul 06 06:23	25°523'43	0.68603 AU	min. Earth dist.	14812 Jun 19 02:37	10° © 19'11	0.69021 AU
morning rise	14811 Jul 10 22:36	19°5549'03	0.00003110	morning rise	14812 Jun 24 06:44	4°505'01	0.09021110
direct	14811 Jul 16 06:14	17° 5 29'25		direct	14812 Jun 29 01:53	2°902'52	
desc. node	14811 Jul 22 08:56	19°951'46		desc. node	14812 Jul 08 06:11	7°5018'46	
morning max el	14811 Jul 27 00:37	23°955'04	23°38'21	morning max el	14812 Jul 08 13:15		22°09'48
	14811 Aug 01 10:32	0°Ω	25 5021		14812 Jul 25 22:19	0°Ω	0, 10
	14811 Aug 22 14:00	0° m)		morning set	14812 Aug 10 13:41	23° Ω 55'07	
morning set	14811 Aug 31 00:01	13° Mp 42'40			14812 Aug 14 07:14	0° m)	
max. Earth dist.	14811 Sep 03 21:38	20° m 25'00	1.39065 AU	max. Earth dist.	14812 Aug 15 22:56	رابات 2° ا¶ن 44′49	1.41408 AU
max. Durin dist.	14811 Sep 09 05:54	ე∘ <u>ი</u>	1.57005 AU	max. Darui dist.	7 1012 11ug 13 22.30	יבידר אָני ב	1.11400 AU
	71011 Dep 07 03.34	~ —		superior conj	14812 Aug 23 18:12	16° Mp 10'11	-1°11'59
superior conj	14811 Sep 11 12:38	4° ≏ 13'49	-0°36'06	minimum elong	14812 Aug 23 23:50	16° Mp 35'08	
minimum elong	14811 Sep 11 12:38	4° <u>Ω</u> 26'05		mminum ciong	14812 Aug 31 09:02	0° ⊽	1 11 50
asc. node	14811 Sep 15 13:58	11° £ 56'35	5 55 57	asc. node	14812 Sep 01 10:32	0 = 1° £ 58'15	
evening rise	14811 Sep 20 16:21	21° ⊆ 51'31		evening rise	14812 Sep 01 10:32 14812 Sep 03 05:03	5° £ 15'53	
2.0	1.011.50p 20 10.21				1.012 бор 05 05.05	· — 13 33	

-	_		_				
	14812 Sep 18 10:47	0°M₊			14813 Aug 06 18:18	0° m)	
evening max el	14812 Sep 19 03:44	0°M44'00	18°15'05	evening rise	14813 Aug 17 03:18	18° m) 01'48	
retrograde	14812 Sep 26 11:14	4° ™ 27'28		asc. node	14813 Aug 19 07:08	21° m/ 50'50	
evening set	14812 Sep 28 14:04	4° ™ 09'21			14813 Aug 23 23:42	0∘ <u>⊽</u>	
desc. node	14812 Oct 04 02:41	1° M 00'44		evening max el	14813 Sep 02 16:26	13° ≏ 47'22	18°02'15
	14812 Oct 05 08:34	30° ₽ Ω		retrograde	14813 Sep 09 07:34	17° ≏ 12'40	
inferior conj	14812 Oct 06 00:23	29° ≏ 26'43	-0°36'15	evening set	14813 Sep 11 17:58	16° ≏ 44'47	
minimum elong	14812 Oct 05 23:05	29° ഫ 29'30	0°35'20	inferior conj	14813 Sep 18 11:19	11° ≏ 42'14	0°46'17
min. Earth dist.	14812 Oct 09 07:04	26° ≏ 41'14	0.58882 AU	minimum elong	14813 Sep 18 12:40	11° ≏ 38'54	0°45'52
morning rise	14812 Oct 13 04:40	23° م 57'49		desc. node	14813 Sep 21 00:08	9° ഫ 13'38	
direct	14812 Oct 19 14:19	22° ഫ 07'30		min. Earth dist.	14813 Sep 21 13:12	8° ≏ 42'51	0.61163 AU
morning max el	14812 Nov 02 21:32	29° ≏ 48'54	27°31'22	morning rise	14813 Sep 25 04:31	5° ≏ 45'14	
	14812 Nov 03 02:04	0° M		direct	14813 Oct 01 20:03	3° ₽ 31'10	
	14812 Nov 24 08:34	0° ∡		morning max el	14813 Oct 16 01:25	11° ≏ 26'51	27°58'22
asc. node	14812 Nov 28 12:04	7° ∡ ¹44'19			14813 Oct 30 16:09	0° M	
morning set	14812 Dec 04 05:16	19° ∡ ¹22'26		asc. node	14813 Nov 15 08:54	27° M 27'05	
	14812 Dec 09 02:12	ರ°ರ			14813 Nov 16 15:21	0° ∡ ¹	
				morning set	14813 Nov 18 07:47	3° ∡ ¹27'30	
superior conj	14812 Dec 11 03:47	4° ප 36'51	1°33'17	max. Earth dist.	14813 Nov 24 01:17	15° ∡ ¹45'39	1.31364 AU
minimum elong	14812 Dec 11 02:31	4° る 29'48	1°34'13				
max. Earth dist.	14812 Dec 10 18:52	3° ⋜ 46'55	1.31087 AU	superior conj	14813 Nov 25 14:17	19° ∡ 10'16	1°22'53
evening rise	14812 Dec 17 21:26	19° る 29'47		minimum elong	14813 Nov 25 12:17	18° ∡ ¹59'12	1°23'38
	14812 Dec 22 23:23	0° ≈			14813 Nov 30 11:23	ರ∘ರ	
desc. node	14812 Dec 31 00:42	14° ≈ 39′54		evening rise	14813 Dec 02 07:04	3° る 58′17	
	14813 Jan 10 16:07	0° ∀			14813 Dec 15 22:02	0° ≈	
evening max el	14813 Jan 16 05:09	6° ∺ 00'48	26°32'47	desc. node	14813 Dec 17 21:37	3° ≈ 05'57	
retrograde	14813 Jan 30 04:28	13° ¥ 09′08		evening max el	14813 Dec 28 21:23	16° ≈ 44'47	25°12'38
evening set	14813 Feb 05 15:23	11° ¥ 27′20		retrograde	14814 Jan 11 17:20	23° ≈ 41′25	
min. Earth dist.	14813 Feb 09 18:45	8° ¥ 50′07	0.58651 AU	evening set	14814 Jan 17 10:25	22° ≈ 27'47	
inferior conj	14813 Feb 12 22:31	6° ¥ 27′06	-3°34'40	min. Earth dist.	14814 Jan 22 09:34	19° ≈ 45'37	0.56661 AU
minimum elong	14813 Feb 13 06:24	6°) 12′09	3°31'26	inferior conj	14814 Jan 25 02:14	17° ≈ 59'37	-4°56'22
morning rise	14813 Feb 21 00:37	1° ¥ 54'51		minimum elong	14814 Jan 25 11:16	17° ≈ 44'47	4°53'24
direct	14813 Feb 23 00:36	1°) 40′55		morning rise	14814 Feb 02 14:39	13° ≈ 49′20	
asc. node	14813 Feb 24 10:00	1°) 47′57		direct	14814 Feb 04 18:09	13° ≈ 36′02	
morning max el	14813 Mar 03 01:10	5°) 38'48	18°22'46	asc. node	14814 Feb 11 07:23	15° ≈ 49'30	
	14813 Mar 18 09:29	0° Y		morning max el	14814 Feb 14 02:21		19°12'27
morning set	14813 Mar 18 19:59	0° Ƴ 49'57			14814 Feb 22 18:24	0° ∀	
				morning set	14814 Mar 02 20:32	15° ∺ 13'31	
superior conj	14813 Mar 28 02:45				14814 Mar 10 07:46	0° Y	
minimum elong	14813 Mar 28 03:19	18° Y ′20′39	0°07'49				
behind sun begin	14813 Mar 27 20:56	17° Y ′51′22		superior conj	14814 Mar 11 03:25	1° Y 35′04	
behind sun end	14813 Mar 28 09:43	18° Y 49'51		minimum elong	14814 Mar 11 05:38	1° Y 45'47	0°38'53
desc. node	14813 Mar 29 02:30	20° Y ′06′13		desc. node	14814 Mar 15 23:02	10° Y 40′10	
	14813 Apr 03 16:40	0° 8		max. Earth dist.	14814 Mar 17 22:03	14° Y 14'16	1.38552 AU
max. Earth dist.	14813 Apr 04 15:43	1° 8 39'01	1.40825 AU	evening rise	14814 Mar 21 15:53	20° ℃ 51′03	
evening rise	14813 Apr 09 01:57	9° 8 04'39			14814 Mar 27 02:24	0∘ R	
	14813 Apr 22 12:39	0°II	22022110		14814 Apr 16 13:21	0°II	2.40.4212.0
evening max el	14813 May 13 08:57	26° ∏ 56'11	23°23'10	evening max el	14814 Apr 25 22:27	10° Ⅱ 49'40	24°43'20
	14813 May 16 18:47	0.20		retrograde	14814 May 07 15:29	17° Ⅱ 40′03	
asc. node	14813 May 23 06:51	3°508'09		asc. node	14814 May 10 04:03	17° Ⅱ 12'40	
retrograde	14813 May 23 23:27	3°5510'16		evening set	14814 May 13 07:02	15° Ⅱ 17'09	0.60402.411
evening set	14813 May 29 03:29	0°558'53		min. Earth dist.	14814 May 17 18:32	10° Ⅱ 12'06	0.68402 AU
· r 4 F 4	14813 May 30 04:22	30°Ŗ Ⅱ	0.60051 ATT	inferior conj	14814 May 18 20:12	8° Ⅱ 46'41	2°22'03
min. Earth dist.	14813 Jun 02 23:20	25° Ⅱ 17'14	0.68951 AU	minimum elong	14814 May 18 18:05	8° Ⅱ 53'43	2°20'37
inferior conj	14813 Jun 03 12:14	24° ∏ 32'48	2°48'34	morning rise	14814 May 24 05:23	2° Ⅱ 48'58	
minimum elong	14813 Jun 03 10:33	24° ∏ 38'35	2°47'17	direct	14814 May 28 00:06	1° Ⅱ 27'04	10920140
morning rise	14813 Jun 08 17:36	18° Ⅱ 26'16 16° Ⅱ 44'03		morning max el	14814 Jun 04 07:55	5° Ⅲ 30′28 14° Ⅲ 49′14	19°39'40
direct	14813 Jun 13 00:16		20040122	desc. node	14814 Jun 12 00:22		0.6-
morning max el	14813 Jun 21 07:02	21° Ⅱ 27'51	20°48'32	greatest brilliancy	14814 Jun 17 01:54	22° I 101'03	-0.6m
desc. node	14813 Jun 25 03:19	25° Ⅱ 42'57			14814 Jun 22 10:50	0°95	
	14813 Jun 28 12:47	0°©		morning set	14814 Jun 30 07:09	11°956'20	
	14813 Jul 19 03:22	0°N		T 4 11 .	14814 Jul 11 21:48	0°N	1 44042 177
morning set	14813 Jul 21 04:22	3°Ω09'28	1 42427 433	max. Earth dist.	14814 Jul 11 20:19	29° © 54'10	1.44943 AU
max. Earth dist.	14813 Jul 29 06:41	15° Ω 58'25	1.43437 AU	·	14014 1 1 16 00 55	70 0 1 0 1 2	2007124
·	14012 4 05 01 5:	270 000110	1044141	superior conj	14814 Jul 16 09:57	7°Ω10'13	
superior conj minimum elong	14813 Aug 05 01:54	27° Ω 09'49		minimum elong	14814 Jul 16 15:25	7° Ω 32'09	2~08'11
minimum elong	14813 Aug 05 09:27	27° Ω 41'27	1~44'34	evening rise	14814 Jul 30 05:51	29° Ω 55'27	

	14814 Jul 30 06:56	0° m/2		superior conj	14815 Jun 25 23:33	16° © 28'19	-2°13'29
asc. node	14814 Aug 06 03:45	11° m) 29'05		minimum elong	14815 Jun 25 21:59	16°\$22'14	
evening max el	14814 Aug 17 07:04	27° m) 13'28	18°08'12	minimum ciong	14815 Jul 04 13:51	0°Ω	2 142/
evening max or	14814 Aug 21 02:34	0° م	10 00 12	evening rise	14815 Jul 11 08:19	10° Ω 47'44	
retrograde	14814 Aug 23 15:50	o° ഫ 34'11		evening rise	14815 Jul 23 11:42	0° m	
evening set	14814 Aug 26 10:42	29° m 53'18		asc. node	14815 Jul 24 00:27	0° m 47'46	
evening sec	14814 Aug 26 04:54	30°R.M)		evening max el	14815 Jul 31 20:29	10° m) 54'41	18°32'00
inferior conj	14814 Sep 01 14:11	24° m/33'22	1°47'49	retrograde	14815 Aug 07 08:00	14° m) 23'56	10 32 00
minimum elong	14814 Sep 01 16:33	24° m/26'53	1°46'54	evening set	14815 Aug 10 11:50	13° m) 27'37	
min. Earth dist.	14814 Sep 04 05:17	21° mp 40'28	0.63392 AU	inferior conj	14815 Aug 16 05:04	7° m 52'16	2°30'09
morning rise	14814 Sep 07 20:24	18° m) 18'36		minimum elong	14815 Aug 16 07:18	7° mp 45'30	
desc. node	14814 Sep 07 21:38	18° Mp 16'16		min. Earth dist.	14815 Aug 18 06:35	5° m) 22'53	0.65377 AU
direct	14814 Sep 14 11:51	15° m) 47'41		morning rise	14815 Aug 22 01:36	1° Mp 28'51	
morning max el	14814 Sep 28 10:15	-	27°46'53		14815 Aug 24 04:52	30°RΩ	
morning man vi	14814 Oct 03 23:52	0∘ ⊽	2, .003	desc. node	14815 Aug 25 19:08	29° Ω 17'21	
	14814 Oct 24 00:36	0° M		direct	14815 Aug 28 12:03	28°Ω50'20	
morning set	14814 Nov 02 02:58	17°ML09'22			14815 Sep 02 04:01	0° m)	
asc. node	14814 Nov 02 05:40	17°M23'00		morning max el	14815 Sep 10 21:15	6° m 43'02	27°02'29
max. Earth dist.	14814 Nov 07 02:02	27°M26'35	1.32193 AU	morning max cr	14815 Sep 28 20:33	0° <u>Ω</u>	27 02 27
max. Darm dist.	14814 Nov 08 06:41	0° ⊼ ¹	1.52175710		14815 Oct 16 07:33	0°M	
	140141407 00 00.41	٧ ٨		morning set	14815 Oct 16 12:03	0° ጤ 21'38	
superior conj	14814 Nov 09 21:46	3° ∡ ′31'36	1°06'36	asc. node	14815 Oct 20 02:23	7°M27'19	
minimum elong	14814 Nov 09 19:27	3° × 3130	1°07'06	max. Earth dist.	14815 Oct 20 02:23	8°M45'45	1.33573 AU
evening rise	14814 Nov 16 17:59	18° ∡ 28'03	1 0700	max. Earth dist.	14813 Oct 20 17.34	0 114343	1.33373 AU
evening rise	14814 Nov 22 07:36	18 × 28 03		superior conj	14815 Oct 25 00:05	17°M35'22	0°44'27
desc. node	14814 Dec 04 18:38	0 0 20°る33'29		minimum elong	14815 Oct 24 22:03	17°M24'36	0°44'45
evening max el	14814 Dec 10 07:27	20 3 53 29 26° る 50'18	22022150	minimum ciong	14815 Oct 30 19:33	0° x ⁷	0 44 43
evening max er	14814 Dec 10 07.27	20 ⊘ 30 18 0° ≈	23 32 36	evening rise	14815 Nov 01 04:24	2° x ⁷ 54'50	
retrograde	14814 Dec 23 17:16	0 ≈ 3°≈29'40		evening rise	14815 Nov 16 01:17	2 x 34 30 0°る	
evening set	14814 Dec 28 06:15	2°≈44'55		desc. node	14815 Nov 21 15:46	6° る 41'56	
evening set	14814 Dec 28 00.13	2 ≈44 33 30°Rる		evening max el	14815 Nov 21 19:33	6° ろ 51'16	2105121
min. Earth dist.	14815 Jan 03 18:13	• -	0.55178 AU			13°る00'20	21 3131
				retrograde	14815 Dec 04 05:53	13° る 00'20	
inferior conj	14815 Jan 05 09:33	28° 3 41'14		evening set	14815 Dec 07 10:39		5052145
minimum elong	14815 Jan 05 14:14	28°る34'22	5°49'37	inferior conj	14815 Dec 16 02:58	8° 3 45'18	
morning rise	14815 Jan 13 23:50	24°る48'07		minimum elong	14815 Dec 15 22:35	8°る51'25	
direct	14815 Jan 16 16:13	24° る 30'32		min. Earth dist.	14815 Dec 16 00:07	8° る 49'17	0.54479 AU
morning max el	14815 Jan 27 14:09	29° る 45'31	20°25'15	morning rise	14815 Dec 24 11:19	4° る 57'41	
_	14815 Jan 27 20:06	0° ≈		direct	14815 Dec 28 01:50	4° る 29'07	
asc. node	14815 Jan 29 04:44	1°≈25'00		morning max el	14816 Jan 09 11:11	10° る 27'20	21°59'49
morning set	14815 Feb 15 03:14	29° ≈ 50'58		asc. node	14816 Jan 16 02:03	18° る 17'26	
	14815 Feb 15 04:59	0° ∀			14816 Jan 23 06:08	0° ≈	
				morning set	14816 Jan 30 13:32	14° ≈ 35′02	
superior conj	14815 Feb 22 17:05	15° ¥ 26′21	1°03'43				
minimum elong	14815 Feb 22 19:44	15°) 39'43	1°03'40	superior conj	14816 Feb 06 16:06	29° ≈ 41'29	1°21'29
max. Earth dist.	14815 Feb 28 05:08	26° ¥ 16'48	1.36331 AU	minimum elong	14816 Feb 06 18:21	29° ≈ 53'18	1°21'50
	14815 Mar 02 04:23	0° Y			14816 Feb 06 19:38	0° ∀	
desc. node	14815 Mar 02 19:35	1° Y 10'44		max. Earth dist.	14816 Feb 10 17:55		1.34378 AU
evening rise	14815 Mar 04 00:44	3° Y ′24'48		evening rise	14816 Feb 15 01:02	16° ¥ 36′17	
	14815 Mar 20 02:16	0°B		desc. node	14816 Feb 17 16:09	21°) 33'45	
evening max el	14815 Apr 08 11:59	24° 8 41'59	25°55'51		14816 Feb 22 09:13	0° Y	
	14815 Apr 15 01:48	$\Pi^{\circ}0$			14816 Mar 13 12:12	9° 8	
retrograde	14815 Apr 21 02:59	1° Ⅱ 57'05		evening max el	14816 Mar 21 01:52	8° 8 25'31	26°53'09
	14815 Apr 26 12:33	30° ₹ 8		retrograde	14816 Apr 03 08:43	15° 8 52'44	
evening set	14815 Apr 27 05:21	29° 8 26'57		evening set	14816 Apr 09 20:30	13° 8 20'45	
asc. node	14815 Apr 27 01:20	29° 8 35'14		asc. node	14816 Apr 12 22:43	10° 8 24'24	
min. Earth dist.	14815 May 01 10:07	24° 8 57'33	0.67397 AU	min. Earth dist.	14816 Apr 13 19:57	9° 8 25'20	0.65976 AU
inferior conj	14815 May 03 00:30	22° 8 56'53	1°44'40	inferior conj	14816 Apr 15 22:51	6° 8 57'14	0°55'34
minimum elong	14815 May 02 22:25	23° 8 03'26	1°43'16	minimum elong	14816 Apr 15 21:28	7° 8 01'17	0°54'32
morning rise	14815 May 08 16:10	17° 8 09'15		morning rise	14816 Apr 21 23:46	1° 8 21'29	
direct	14815 May 11 23:51	16° 8 06'21		direct	14816 Apr 24 21:28	0° 8 35'15	
morning max el	14815 May 18 16:04	19° 8 41'40	18°46'12	morning max el	14816 May 01 05:55	3° 8 54'58	18°09'21
-	14815 May 26 20:56	0°II		desc. node	14816 May 15 18:10	24° 8 25'39	
desc. node	14815 May 29 21:19	4° Ⅱ 26'30			14816 May 19 05:19	0°II	
greatest brilliancy	14815 Jun 01 18:00	8° Ⅱ 47'00	-0.8m	morning set	14816 May 20 06:40	1° Ⅱ 42'05	
morning set	14815 Jun 09 18:37	21° Ⅱ 12'54		U .	y		
5	14815 Jun 15 10:00	0ංම 		superior conj	14816 Jun 04 08:32	25° Ⅱ 40'17	-1°59'15
max. Earth dist.	14815 Jun 24 14:24	14° © 18'46	1.45780 AU	minimum elong	14816 Jun 04 00:35	25° I 09'09	
							-

F4h Ji-4	14016 I 06 10.41	200 π εειαε	1 4507C ATT	:	14017 Mars 15 05.52	50 ∏ 20!22	1920157
max. Earth dist.	14816 Jun 06 10:41		1.45876 AU	superior conj	14817 May 15 05:53	5° Ⅱ 30'22	
	14816 Jun 07 02:58	0°95		minimum elong	14817 May 14 21:32		
evening rise	14816 Jun 20 10:56	20°542'15		max. Earth dist.	14817 May 20 06:36	13° Ⅲ 31′08	1.45228 AU
	14816 Jun 26 11:18	0 $^{\circ}\Omega$		evening rise	14817 May 30 23:08	0° © 06'50	
greatest brilliancy	14816 Jul 02 04:49	8° Ω 44'01	-0.7m		14817 May 30 21:21	0° ©	
asc. node	14816 Jul 09 21:13	19° Ω 39'08			14817 Jun 20 06:45	$0^{\circ}\Omega$	
evening max el	14816 Jul 14 06:03	24° Ω 43'25	19°12'44	asc. node	14817 Jun 26 18:05	7° Ω 53'48	
retrograde	14816 Jul 21 04:45	28° Ω 34'11		evening max el	14817 Jun 27 10:02	8° Ω 34'38	20°09'01
evening set	14816 Jul 24 18:03	27° Ω 20′53		retrograde	14817 Jul 05 03:34	12° Ω 58'44	
inferior conj	14816 Jul 30 04:29	21° Ω 31'34	2°56'16	evening set	14817 Jul 09 02:55	11° Ω 28′00	
minimum elong	14816 Jul 30 06:00	21° Ω 26'38	2°55'21	inferior conj	14817 Jul 14 09:37	5° Ω 26′00	3°08'42
min. Earth dist.	14816 Jul 31 15:37	19° Ω 37'37	0.66986 AU	minimum elong	14817 Jul 14 10:10	5° Ω 24'06	3°07'47
morning rise	14816 Aug 04 17:19	15° Ω 06′05		min. Earth dist.	14817 Jul 15 06:39	4° Ω 14'26	0.68148 AU
direct	14816 Aug 10 18:58	12° Ω 29'15			14817 Jul 18 17:26	30° ₹ॐ	
desc. node	14816 Aug 11 16:37	12° Ω 32'21		morning rise	14817 Jul 19 17:06	29° 5 02'46	
morning max el	14816 Aug 23 08:23	19° Ω 58'55	25°53'37	direct	14817 Jul 25 07:35	26° © 35'22	
	14816 Aug 31 22:27	0° m)		desc. node	14817 Jul 29 14:02	27° 5 45'02	
	14816 Sep 20 23:16	0∘ ⊽			14817 Aug 01 23:45	$0^{\circ}\Omega$	
morning set	14816 Sep 28 07:35	12° ≏ 56'04		morning max el	14817 Aug 05 19:05	3° Ω 27'43	24°29'43
max. Earth dist.	14816 Oct 02 00:08	19° ≙ 51'25	1.35452 AU		14817 Aug 26 02:48	0° m y	
asc. node	14816 Oct 05 23:02	27° ♀ 35'41		morning set	14817 Sep 10 09:25	24° Mp 42'54	
	14816 Oct 07 03:48	0° M .			14817 Sep 13 09:09	0∘ ত	
				max. Earth dist.	14817 Sep 13 23:49	1° ≏ 06'00	1.37697 AU
superior conj	14816 Oct 07 18:34	1°MJ14'44	0°16'43		•		
minimum elong	14816 Oct 07 17:36	1° M 09'50	0°16'58	superior conj	14817 Sep 21 01:55	14° ≏ 21'16	-0°15'49
evening rise	14816 Oct 15 12:16	17°ML13'26		minimum elong	14817 Sep 21 02:58	14° ≏ 26'21	0°15'28
Ü	14816 Oct 21 22:33	0° ∡ ¹		behind sun begin	14817 Sep 21 01:01	14° ≏ 16'53	
evening max el	14816 Nov 02 18:35	17° ∡ ¹22'48	20°23'32	behind sun end	14817 Sep 21 04:56	14° Ω 35'49	
desc. node	14816 Nov 07 13:00	21° ₹ ¹06'12		asc. node	14817 Sep 22 19:38	17° ≏ 44'10	
retrograde	14816 Nov 13 16:48	22° ∡ ¹49'00			14817 Sep 28 23:42	0°M	
evening set	14816 Nov 15 22:13	22° х 36'30		evening rise	14817 Sep 29 15:12	1°M17'23	
inferior conj	14816 Nov 24 19:33	18° ∡ ¹41'06	-4°56'32	evening max el	14817 Oct 16 07:55	28°M41'55	19°16'24
minimum elong	14816 Nov 24 09:37	18° × 755'39	4°53'05	evening man er	14817 Oct 17 17:31	0° √	1, 102.
min. Earth dist.	14816 Nov 26 06:21	17° × 7'50'09	0.54707 AU	desc. node	14817 Oct 25 10:19	3° х ⁷ 21'45	
morning rise	14816 Dec 02 20:34	14°×7'40'34	0.54707710	retrograde	14817 Oct 25 15:05	3° × 21' 43	
direct	14816 Dec 07 11:09	13° × 754'51		evening set	14817 Oct 27 12:03	3°×2132	
morning max el	14816 Dec 20 22:00	20°×730'24	23°48'09	evening set	14817 Nov 03 13:16	30°RM	
morning max er	14816 Dec 28 22:19	0° 궁	23 40 07	inferior conj	14817 Nov 05 01:12	29°M01'11	3°10'05
asc. node	14817 Jan 01 23:18	6° ろ 09'24		minimum elong	14817 Nov 04 16:56	29°M14'54	
morning set	14817 Jan 14 01:27	0 00924 29° ට 20'11		min. Earth dist.	14817 Nov 07 16:14	27°M16'51	
morning set	14817 Jan 14 01.27	29 3 20 11 0° ≈		morning rise	14817 Nov 07 10:14 14817 Nov 12 19:26	24°M29'28	0.55820 AU
	1401/Jaii 14 00.33	0 &		•		23°M21'13	
aumorior coni	14917 Ion 20 21:24	1.490.01.212.5	1022142	direct	14817 Nov 18 06:39	23 IIG21 13 0° ⊼ ¹	
superior conj	14817 Jan 20 21:34	14°≈12'35			14817 Dec 01 20:00		25922157
minimum elong	14817 Jan 20 22:57		1°33'25	morning max el	14817 Dec 02 07:48	0° ×727'43	25*33*30
max. Earth dist.	14817 Jan 23 14:34	20°≈02'16	1.32825 AU	asc. node	14817 Dec 19 20:27	24° ∡ ′45′20	
	14817 Jan 28 09:59	0° ∀			14817 Dec 22 16:27	0°る	
evening rise	14817 Jan 28 13:22	0° ¥ 16'56		morning set	14817 Dec 29 13:02	14° る 00'05	
desc. node	14817 Feb 03 12:45	11°) 44'49 0° Ƴ			14010 1 05 06 50	200751125	1027140
	14817 Feb 14 09:56		27027144	superior conj	14818 Jan 05 06:58	28° ろ 51'35	
evening max el	14817 Mar 03 15:00	21° Y 49'32	27°27'44	minimum elong	14818 Jan 05 07:18	28° る 53'27	1°38'36
retrograde	14817 Mar 17 07:48	29° Y 18'45		D d E c	14818 Jan 05 19:20	0° ≈	1 21742 411
evening set	14817 Mar 24 02:17	26° Y 51′09	0.64102.477	max. Earth dist.	14818 Jan 06 17:54	2°≈04'31	1.31743 AU
min. Earth dist.	14817 Mar 27 21:53	23° Y 26'49	0.64193 AU	evening rise	14818 Jan 12 10:37	14° ≈ 18′09	
inferior conj	14817 Mar 30 12:37	20° Y 41′28			14818 Jan 20 11:47	0°) {	
minimum elong	14817 Mar 30 12:48	20° Y 40'58	0°06'11	desc. node	14818 Jan 21 09:24	1°) 37'31	
transit middle	14817 Mar 30 12:48	20° Y 40'58	0°06'11		14818 Feb 09 14:39	0° Υ	
transit begin	14817 Mar 30 09:56	20° Y 48'33		evening max el	14818 Feb 14 01:11	4° Υ 40'14	27°33'11
transit end	14817 Mar 30 15:40	20° Y 33′23		retrograde	14818 Feb 27 23:18	12° Y ′04'53	
asc. node	14817 Mar 30 20:08	20° Y 21'36		evening set	14818 Mar 06 20:06	9° Y 49'00	
morning rise	14817 Apr 06 01:28	15° Y 20′02		min. Earth dist.	14818 Mar 10 14:17	6° Y 50′26	0.62122 AU
direct	14817 Apr 08 14:23	14° Y 47'22		inferior conj	14818 Mar 13 14:38	4° Υ ′00'52	
morning max el	14817 Apr 14 23:06	18° Y 03′29	17°49'38	minimum elong	14818 Mar 13 17:24	3° Y 54'21	1°18'54
	14817 Apr 23 19:02	0° 8		asc. node	14818 Mar 17 17:36	0° Y 30′55	
morning set	14817 May 01 22:20	13° 8 30'47			14818 Mar 18 12:28	30° ₹	
desc. node	14817 May 02 14:55	14° 8 40'35		morning rise	14818 Mar 20 17:38	28° ¥ 56'38	
	14817 May 11 20:20	Π $^{\circ}$ 0		direct	14818 Mar 22 23:15	28°) 34'11	
					14818 Mar 27 06:55	0° Ƴ	

marning may al	14818 Mar 29 16:34	1° Y ′58'02	17°47'34	desc. node	14910 Apr 06 09:07	25° Ƴ 37'17	
morning max el morning set	14818 Apr 14 13:01	26°\bar{Y}23'54	1/4/34	desc. node	14819 Apr 06 08:07	23 3/1/	
morning set	14818 Apr 16 13:55	0° 8		superior conj	14819 Apr 07 20:47	28° Y ′20'48	-0°12'23
desc. node	14818 Apr 19 11:33	5° 8 05'48		minimum elong	14819 Apr 07 19:44	28° Υ 16'10	
	ī			behind sun begin	14819 Apr 07 14:54	27° Ƴ 54'41	
superior conj	14818 Apr 26 01:36	16° 8 23'26	-0°50'51	behind sun end	14819 Apr 08 00:35	28° Y 37'37	
minimum elong	14818 Apr 25 20:46	16° 8 03'06	0°50'47		14819 Apr 08 19:14	9° 8	
max. Earth dist.	14818 May 02 23:12	27° 8 45'07	1.43901 AU	max. Earth dist.	14819 Apr 15 11:00	11° 8 24'35	1.42047 AU
	14818 May 04 08:48	Π °0		evening rise	14819 Apr 20 17:49	20° 8 02'56	
evening rise	14818 May 10 12:51	9° ∏ 42'41			14819 Apr 27 02:13	Π °0	
	14818 May 24 01:16	0 \circ 50			14819 May 18 10:30	0 \circ \odot	
evening max el	14818 Jun 10 07:58	22°525'53	21°18'22	evening max el	14819 May 24 01:03	6° © 17'32	22°36'34
asc. node	14818 Jun 13 15:02	25° © 19'34		asc. node	14819 May 31 12:05	11° © 40'43	
retrograde	14818 Jun 19 02:25	27°531'59		retrograde	14819 Jun 02 23:36	12°508'03	
evening set	14818 Jun 23 12:25	25°544'20	2000110	evening set	14819 Jun 07 20:51	10°504'54	2050100
inferior conj	14818 Jun 28 18:06	19°931'14	3°09'19	inferior conj	14819 Jun 13 03:53	3°542'46	2°59'09
minimum elong min. Earth dist.	14818 Jun 28 17:41 14818 Jun 29 01:38	19° © 32'42 19° © 04'58	3°08'18 0.68832 AU	minimum elong min. Earth dist.	14819 Jun 13 02:36 14819 Jun 12 22:25	3°\$47'14 4°\$01'46	2°57'58 0.69039 AU
morning rise	14818 Jul 03 22:43	19 304 38 13°513'00	0.08832 AU	IIIII. Eartii tist.	14819 Jun 15 22:51	4 901 46 30°RⅡ	0.09039 AU
direct	14818 Jul 09 00:56	11°500'36		morning rise	14819 Jun 18 08:12	27° ∏ 31'22	
desc. node	14818 Jul 16 11:22	14° © 29'51		direct	14819 Jun 22 21:56	25° П 37'31	
morning max el	14818 Jul 19 06:24	17° © 04'51	23°00'21	uncet	14819 Jul 01 00:19	0°95	
morning max or	14818 Jul 29 23:19	0°Ω	23 0021	morning max el	14819 Jul 01 20:49	0° © 49'45	21°34'00
	14818 Aug 19 03:40	0° m)		desc. node	14819 Jul 03 08:34	2°\$22'59	
morning set	14818 Aug 22 13:15	5° m 32'34			14819 Jul 23 17:48	$0^{\circ}\Omega$	
max. Earth dist.	14818 Aug 26 22:37	12° m 55'44	1.40075 AU	morning set	14819 Aug 02 16:31	15° Ω 18′20	
	-			max. Earth dist.	14819 Aug 09 01:51	25° Ω 36′19	1.42314 AU
superior conj	14818 Sep 03 18:10	26° Mp 46'14	-0°51'21		14819 Aug 11 17:28	0° ™	
minimum elong	14818 Sep 03 22:04	27° Mp $04'05$	0°50'52				
	14818 Sep 05 12:15	0∘ ⊽		superior conj	14819 Aug 16 14:51	8° m 19'04	-1°26'35
asc. node	14818 Sep 09 16:12	7° ≏ 49'33		minimum elong	14819 Aug 16 21:34	8° Mp 48'09	1°26'12
evening rise	14818 Sep 13 10:12	14° ≙ 59'19		evening rise	14819 Aug 27 17:19	28°Mp08'26	
	14818 Sep 21 14:08	0°M₊		asc. node	14819 Aug 27 12:44	27° m 47'32	
evening max el	14818 Sep 29 09:39	10°M49'12	18°31'26		14819 Aug 28 17:50	0∘ ⊽	
retrograde	14818 Oct 07 07:48	14°M49'44		evening max el	14819 Sep 12 19:36		18°07'20
evening set	14818 Oct 09 06:53	14°M35'45		retrograde	14819 Sep 19 18:51	27° Ω 08'52	
desc. node	14818 Oct 12 07:43 14818 Oct 17 03:42	13°M24'13 10°M05'34	1922142	evening set inferior conj	14819 Sep 22 00:43 14819 Sep 29 03:35	26° Ω 47'05 21° Ω 56'03	0°01'15
inferior conj minimum elong	14818 Oct 17 03:42 14818 Oct 17 00:02	10°M12'43		minimum elong	14819 Sep 29 03:38	21° 2 55'56	
min. Earth dist.	14818 Oct 20 08:41	7°M37'13	0.57639 AU	transit middle	14819 Sep 29 03:38	21° ⊆ 55'56	
morning rise	14818 Oct 24 13:41	4°M56'18	0.37037110	transit begin	14819 Sep 29 00:17	22° <u>0</u> 03'29	0 01 30
direct	14818 Oct 30 16:52	3°M21'10		transit end	14819 Sep 29 06:58	21° Ω 48'23	
morning max el	14818 Nov 13 23:37	10°M52'30	26°58'05	desc. node	14819 Sep 29 05:11	21° £ 52'27	
Č	14818 Nov 28 18:16	0° ∡ ¹		min. Earth dist.	14819 Oct 02 09:24	19° ≏ 01'48	0.59845 AU
asc. node	14818 Dec 06 17:29	13° ∡ ′53'57		morning rise	14819 Oct 06 03:15	16° ≙ 14'02	
morning set	14818 Dec 13 22:34	28° ∡ ³30′09		direct	14819 Oct 12 16:21	14° ≏ 12'34	
	14818 Dec 14 15:17	0°ප		morning max el	14819 Oct 26 23:11	22° ჲ 01'24	27°47'33
					14819 Nov 02 23:57	0° M	
superior conj	14818 Dec 20 18:17	13° る 32'49	1°36'35		14819 Nov 21 19:50	0° ∡	
minimum elong	14818 Dec 20 17:34	13° る 28'49	1°37'34	asc. node	14819 Nov 23 14:24	3° ∡ ¹25'59 _	
max. Earth dist.	14818 Dec 21 01:06	14°る10'59	1.31173 AU	morning set	14819 Nov 28 04:13	12° ₹ 45'28	
evening rise	14818 Dec 27 14:20	28° る 34'07		max. Earth dist.	14819 Dec 04 08:48	26° ≯ 14'28	1.31137 AU
JJ.	14818 Dec 28 06:33	0°≈ 21°≈ ≈04142			14910 D 05 05:27	200.710025	1920127
desc. node	14819 Jan 08 06:08	21°≈04'42 0°) €		superior conj	14819 Dec 05 05:37		1°29'36
avaning may al	14819 Jan 13 18:38 14819 Jan 27 06:04	16° ∺ 46'30	2700446	minimum elong	14819 Dec 05 04:01 14819 Dec 06 01:13	28°水01'35 0°る	1°30'28
evening max el retrograde	14819 Feb 10 06:11	24° ¥ 02'09	27 04 40	evening rise	14819 Dec 11 22:22	0 0 12° る 59'29	
evening set	14819 Feb 16 22:48	24 \(\tau \) 02 09 22°\(\tau \) 05'58		Croning rise	14819 Dec 20 08:59	0° ≈	
min. Earth dist.	14819 Feb 20 20:25	19° \(\frac{1}{2}\) 24'15	0.59906 AU	desc. node	14819 Dec 26 02:59	9° ≈ 56'41	
inferior conj	14819 Feb 24 01:19	16°) (46'29		evening max el	14820 Jan 09 03:29	28° ≈ 01'23	26°02'05
minimum elong	14819 Feb 24 07:24	16°) €33'57		<i>5</i> +-	14820 Jan 11 09:03	0° ∀	
morning rise	14819 Mar 03 19:24	12°) €02'05		retrograde	14820 Jan 23 02:18	5°) €05'06	
asc. node	14819 Mar 04 15:04	11°) 51′54		evening set	14820 Jan 29 06:34	3°) 35′11	
direct	14819 Mar 05 20:07	11°) 46′11		min. Earth dist.	14820 Feb 02 16:41	0°) 57'40	0.57758 AU
morning max el	14819 Mar 13 06:51	15° ∺ 28'52	18°04'07		14820 Feb 04 01:29	30°R ≈	
	14819 Mar 23 08:16	0° Υ		inferior conj	14820 Feb 05 17:10	28° ≈ 48'46	-4°11'05
morning set	14819 Mar 28 20:42	10° Ƴ 03'44		minimum elong	14820 Feb 06 02:00	28° ≈ 33'01	4°07'44

morning rise	14820 Feb 14 00:26	24° ≈ 25'45		morning rise	14821 Jan 25 02:20	5°≈57'09	
direct	14820 Feb 16 00:47	24°≈12'39		direct	14821 Jan 27 10:13	5°≈42'37	
asc. node	14820 Feb 19 12:30	24°≈54'08		asc. node	14821 Feb 05 09:55	9° ≈ 37'22	
morning max el	14820 Feb 24 14:02	28° ≈ 24'37	18°41'06	morning max el	14821 Feb 06 09:50	10° ≈ 32'33	19°40'31
C	14820 Feb 26 02:05	0°) €		C	14821 Feb 19 09:11	0°) €	
morning set	14820 Mar 11 16:21	24°) 15′29		morning set	14821 Feb 23 19:56	8°) 46′24	
	14820 Mar 14 15:16	$0^{\circ}\Upsilon$					
				superior conj	14821 Mar 03 18:47	24°) 45′44	0°50'24
superior conj	14820 Mar 20 12:03	11° Y 12'46	0°22'03	minimum elong	14821 Mar 03 21:18	24°) 58′10	0°50'12
minimum elong	14820 Mar 20 13:30	11° Ƴ 19'32	0°21'42		14821 Mar 06 11:22	0 ° $\mathbf{\gamma}$	
desc. node	14820 Mar 23 04:39	16° Ƴ 11'36		max. Earth dist.	14821 Mar 10 01:29	6° Y 45'43	1.37594 AU
max. Earth dist.	14820 Mar 27 18:55	24° Y 24'22	1.39868 AU	desc. node	14821 Mar 10 01:12	6° Y 44'25	
	14820 Mar 31 00:58	0°8		evening rise	14821 Mar 13 18:18	13° Y 27'30	
evening rise	14820 Mar 31 19:51	1° 8 19'37			14821 Mar 23 15:17	0°8	
·	14820 Apr 19 09:48	0°II	22057151		14821 Apr 14 08:34	0°II	25015121
evening max el	14820 May 05 15:28	20° Ⅱ 11'28 26° Ⅱ 41'58	23°57'51	evening max el	14821 Apr 18 05:02	4° Ⅱ 05'29 11° Ⅱ 07'00	25°15'31
retrograde asc. node	14820 May 16 17:46 14820 May 17 09:14	26° II 40'08		retrograde asc. node	14821 Apr 30 07:48 14821 May 04 06:29	10° I 01'37	
evening set	14820 May 17 09.14 14820 May 22 02:38	26 H 40 08 24° H 25'31		evening set	14821 May 04 06.29	10 П 0137 8° П 40'31	
min. Earth dist.	14820 May 26 18:49	18° Ⅱ 59'19	0.68773 AU	min. Earth dist.	14821 May 10 12:41	3° I I50′52	0.68038 AU
inferior conj	14820 May 27 13:04	17° I 57'13	2°38'37	inferior conj	14821 May 11 19:44	2° I 109'50	2°07'34
minimum elong	14820 May 27 11:10	18° Ⅱ 03'43	2°37'16	minimum elong	14821 May 11 17:34	2° Ⅱ 16'54	2°06'08
morning rise	14820 Jun 01 19:42	11° I I54'05	2 37 10	g	14821 May 13 12:33	30°R ∀	2 00 00
direct	14820 Jun 05 21:17	10° Ⅲ 20′20		morning rise	14821 May 17 07:21	26° 8 16'17	
morning max el	14820 Jun 13 17:21	14° Ⅱ 45'33	20°17'27	direct	14821 May 20 21:22	25° 8 02'32	
desc. node	14820 Jun 19 05:41	21° Ⅱ 06'36		morning max el	14821 May 27 21:23	28° 8 51'56	19°14'55
	14820 Jun 25 18:16	0°€			14821 May 28 23:57	$\Pi^{\circ}0$	
morning set	14820 Jul 11 23:56	24°9514'21		desc. node	14821 Jun 06 02:42	10° Ⅱ 26'53	
	14820 Jul 15 17:05	$0^{\circ}\Omega$		greatest brilliancy	14821 Jun 09 16:16	15° Ⅱ 39′09	-0.7m
max. Earth dist.	14820 Jul 21 12:09	9° Ω 08'53	1.44156 AU		14821 Jun 19 03:17	0ං ව	
				morning set	14821 Jun 21 03:49	3° 5 06'33	
superior conj	14820 Jul 27 12:25	18° Ω 52'58		max. Earth dist.	14821 Jul 04 04:26	23°520'18	1.45393 AU
minimum elong	14820 Jul 27 19:44	19° Ω 23′00	1°56'12				
	14820 Aug 03 04:14	0° m/y		superior conj	14821 Jul 07 11:24	28°931'27	
evening rise	14820 Aug 09 07:46	10° m 32'56		minimum elong	14821 Jul 07 14:19	28°543'00	2°13'20
asc. node	14820 Aug 13 09:19	17° m 34'11			14821 Jul 08 09:45	0°N	
	14820 Aug 21 00:04	0° 亞	10002127	evening rise	14821 Jul 22 00:26 14821 Jul 26 20:57	22° Ω 00'54	
evening max el retrograde	14820 Aug 26 09:36 14820 Sep 01 20:40	6° ♀ 49'05 10° ♀ 10'24	18°02'37	asc. node	14821 Jul 26 20:57	0° Mp 7° Mp 04'35	
evening set	14820 Sep 01 20:40	9° £ 37'11		evening max el	14821 Aug 10 00:04	20° Mp 22'10	18°16'12
inferior conj	14820 Sep		1°14'52	retrograde	14821 Aug 16 08:51	23° m) 44'54	18 10 12
minimum elong	14820 Sep 10 23:42	4° £ 21'56	1°14'10	evening set	14821 Aug 19 07:31	22° m/ 57'33	
min. Earth dist.	14820 Sep 13 19:34	1° £ 28'10	0.62137 AU	inferior conj	14821 Aug 25 06:11	17° mp 30'32	2°07'57
desc. node	14820 Sep 15 02:40	0° ≙ 14'26		minimum elong	14821 Aug 25 08:35	17° m) 23'37	2°06'59
	14820 Sep 15 09:06	30°R Mp		min. Earth dist.	14821 Aug 27 15:33	14° Mp 46'12	0.64273 AU
morning rise	14820 Sep 17 10:13	28° m 21'31		morning rise	14821 Aug 31 08:04	11° m)11'14	
direct	14820 Sep 24 02:36	25° m 59'15		desc. node	14821 Sep 02 00:10	10° m 01'45	
	14820 Oct 03 17:45	0∘ ⊽		direct	14821 Sep 06 21:51	8° m 36'16	
morning max el	14820 Oct 08 05:16	3° ჲ 57'36	27°57'55	morning max el	14821 Sep 20 15:24	16° Mp 34'40	27°31'45
	14820 Oct 27 15:54	0°M			14821 Oct 01 18:37	0∘ ⊽	
asc. node	14820 Nov 09 11:13	23°M14'40			14821 Oct 20 11:01	0° M	
morning set	14820 Nov 11 03:54	26°M40'54		morning set	14821 Oct 25 19:13	10°M11'13	
To all III	14820 Nov 12 18:19	0° √	1 21 651 4 11	asc. node	14821 Oct 27 07:57	13°M14'42	1 22714 444
max. Earth dist.	14820 Nov 16 13:16	8° ≯ 06'13	1.31651 AU	max. Earth dist.	14821 Oct 30 10:52	19°M39'33	1.32714 AU
superior conj	14820 Nov 18 15:06	12° ∡ ³39'25	1°16'43	superior conj	14821 Nov 02 20:43	26°M54'09	0°57'56
minimum elong	14820 Nov 18 12:55	12° x 3923	1°17'21	minimum elong	14821 Nov 02 20:43	26°M41'52	0°58'20
evening rise	14820 Nov 25 08:48	27°×29'08	. 1,21		14821 Nov 04 07:08	20 li c 41 32	3 30 20
3. 2	14820 Nov 26 12:55	0°る		evening rise	14821 Nov 09 19:47	11° х 58'43	
desc. node	14820 Dec 11 23:56	27° る 59'52		3	14821 Nov 18 20:59	0°ප	
	14820 Dec 13 10:18	0° ≈		desc. node	14821 Nov 28 21:01	14° ⋜ 56'55	
evening max el	14820 Dec 20 16:45		24°31'43	evening max el	14821 Dec 02 02:24	18° そ 25'38	22°49'00
retrograde	14821 Jan 03 09:18	15° ≈ 16′20		retrograde	14821 Dec 15 03:43	24°る54'03	
evening set	14821 Jan 08 15:39	14° ≈ 15′27		evening set	14821 Dec 19 03:10	24° る 19'35	
min. Earth dist.	14821 Jan 14 04:31	11° ≈ 25'37	0.55953 AU	min. Earth dist.	14821 Dec 26 11:14	20° る 57'58	0.54776 AU
inferior conj	14821 Jan 16 11:59	9° ≈ 59'30		inferior conj	14821 Dec 27 12:12	20° る 22'32	
minimum elong	14821 Jan 16 19:59	9° ≈ 47'03	5°22'03	minimum elong	14821 Dec 27 13:14	20° පි 21'03	5°58'35

morning rise	14822 Jan 05 00:40	16° る 34'06		min. Earth dist.	14822 Dec 07 16:55	20° / 150'10	0.54454 AU
direct	14822 Jan 08 01:47	16°る12'41		iiiii. Lattii dist.	14822 Dec 07 16:33	30°R. ✓	0.34434 AU
morning max el	14822 Jan 19 15:17	10 3 12 41 21° 3 45'39	21°03'04	morning rise	14822 Dec 15 08:28	26° ₹ '27'38	
asc. node	14822 Jan 23 07:17	25° る 47'52	21 03 04	direct	14822 Dec 19 09:04	25° × 52'43	
use. Houe	14822 Jan 26 09:35	0°≈		ancer	14822 Dec 29 19:57	0°る	
morning set	14822 Feb 08 04:30	23° ≈ 27'49		morning max el	14823 Jan 01 07:13	。 2° ろ 07'57	22°45'03
morning sec	14822 Feb 11 07:27	0° ∀		asc. node	14823 Jan 10 04:34	13° る 07'05	22 13 03
	11022100 11 07:27	٠,٨		use. Houe	14823 Jan 19 16:37	0° ≈	
superior conj	14822 Feb 15 12:53	8°) (48'34	1°12'02	morning set	14823 Jan 23 15:42	8° ≈ 12'37	
minimum elong	14822 Feb 15 15:27	9° ₩ 01'42	1°12'10				
max. Earth dist.	14822 Feb 20 10:45	18°) (41'42	1.35462 AU	superior conj	14823 Jan 30 14:59	23° ≈ 11'17	1°27'00
evening rise	14822 Feb 24 10:10	26°) 18'15		minimum elong	14823 Jan 30 16:54	23° ≈ 21'33	1°27'31
desc. node	14822 Feb 24 21:45	27°) 12′08		C	14823 Feb 02 20:31	0° ∀	
	14822 Feb 26 10:19	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	14823 Feb 03 02:32	0°) 31′16	1.33659 AU
	14822 Mar 17 01:38	0°8		evening rise	14823 Feb 07 15:57	9°) 42'40	
evening max el	14822 Mar 31 18:40	17° 8 54'33	26°22'21	desc. node	14823 Feb 11 18:20	17° ¥ 30′22	
retrograde	14822 Apr 13 16:53	25° 8 16'01			14823 Feb 18 21:39	0° Y	
evening set	14822 Apr 19 23:40	22° 8 44'06			14823 Mar 12 19:59	0°B	
asc. node	14822 Apr 21 03:50	21° 8 41'28		evening max el	14823 Mar 14 08:12	1° 8 30'24	27°10'58
min. Earth dist.	14822 Apr 24 01:56	18° 8 29'43	0.66851 AU	retrograde	14823 Mar 27 20:08	9° 8 00'26	
inferior conj	14822 Apr 25 21:47	16° 8 16'06	1°25'19	evening set	14823 Apr 03 11:11	6° 8 29'10	
minimum elong	14822 Apr 25 19:54	16° 8 21'50	1°24'02	min. Earth dist.	14823 Apr 07 08:39	2° 8 47'33	0.65257 AU
morning rise	14822 May 01 17:06	10° 8 33'34		asc. node	14823 Apr 08 01:15	2° 8 01'48	
direct	14822 May 04 20:25	9° 8 38'08		inferior conj	14823 Apr 09 16:51	0° 8 10'21	0°31'02
morning max el	14822 May 11 08:17	13° 8 04'59	18°28'27	minimum elong	14823 Apr 09 16:00	0° 8 12'43	0°30'17
desc. node	14822 May 23 23:38	0°Ⅱ14′00			14823 Apr 09 20:32	30° ŖƳ	
	14822 May 23 20:00	Π $^{\circ}0$		morning rise	14823 Apr 15 22:33	24° Y 40'36	
morning set	14822 Jun 01 00:31	12° Ⅱ 50′34		direct	14823 Apr 18 16:15	24° Y 00'42	
	14822 Jun 11 22:48	0 \circ \odot		morning max el	14823 Apr 24 23:58	27° Y 17'40	17°58'50
					14823 Apr 27 10:58	$0^{\circ}B$	
superior conj	14822 Jun 16 20:50	7° 5 40'34	-2°09'49	desc. node	14823 May 10 20:26	20° 8 20'31	
minimum elong	14822 Jun 16 16:00	7° 5 21'46	2°10'40	morning set	14823 May 13 00:36	23° 8 54'27	
max. Earth dist.	14822 Jun 16 24:00	7° © 52'55	1.45914 AU		14823 May 16 17:58	Π °0	
	14822 Jul 01 03:03	0 $^{\circ}$ Ω					
evening rise	14822 Jul 02 16:16	2° Ω 26′39		superior conj	14823 May 27 09:23	17° Ⅱ 04'57	-1°47'55
greatest brilliancy	14822 Jul 11 11:06	16° Ω 14'41	-0.8m	minimum elong	14823 May 27 00:32	16° Ⅱ 29'56	1°48'05
asc. node	14822 Jul 18 02:41	26° Ω 12'13		max. Earth dist.	14823 May 30 20:01	22° Ⅱ 29'53	1.45684 AU
	14822 Jul 20 22:07	0° ™			14823 Jun 04 15:32	0 \circ	
evening max el	14822 Jul 24 12:00	4° Mp 06′21	18°47'18	evening rise	14823 Jun 12 11:05	12° © 03'47	
retrograde	14822 Jul 31 03:24	7° ™ 43'36			14823 Jun 24 06:24	0 \circ Ω	
evening set	14822 Aug 03 11:08	6° Mp 40′13		greatest brilliancy	14823 Jun 26 02:11	2° Ω 41'49	-0.7m
inferior conj	14822 Aug 09 01:03	0° т 58'33	2°43'06	asc. node	14823 Jul 04 23:30	14° Ω 49'31	
minimum elong	14822 Aug 09 03:02	0° m 52'21	2°42'07	evening max el	14823 Jul 07 19:18	17° Ω 56'34	19°34'53
	14822 Aug 09 19:42	30°R€		retrograde	14823 Jul 15 01:21	22° Ω 00'33	
min. Earth dist.	14822 Aug 10 20:25	28° Ω 43'06	0.66105 AU	evening set	14823 Jul 18 18:44	20° Ω 40'04	2002104
morning rise	14822 Aug 14 18:01	24° Ω 33'20		inferior conj	14823 Jul 24 03:14	14° Ω 45'14	3°03'04
desc. node	14822 Aug 19 21:41	21° Ω 59'29		minimum elong	14823 Jul 24 04:22	14° Ω 41'29	3°02'10
direct	14822 Aug 21 00:54	21° Ω 54'39	26025145	min. Earth dist.	14823 Jul 25 08:23 14823 Jul 29 13:29	13° Ω 08'26	0.67535 AU
morning max el	14822 Sep 03 02:53	29° Ω 40'02	20-35.45	morning rise		8° Ω 20'02	
	14822 Sep 03 10:43	0 ்⊽ 0 ்மி		direct	14823 Aug 04 10:34	5° Ω 46'09	
morning set	14822 Sep 25 16:13 14822 Oct 08 22:58	ე° <u>ა</u> 23° ჲ 08'03		desc. node morning max el	14823 Aug 06 19:07 14823 Aug 16 13:49	6° Ω 07'25 13° Ω 02'24	25010106
morning set	14822 Oct 08 22:38 14822 Oct 12 12:18	0°M		morning max er	14823 Aug 10 13.49 14823 Aug 30 07:16	0° m)	23 1900
max. Earth dist.	14822 Oct 12 12:18 14822 Oct 12 22:41	0°M51'21	1.34310 AU		14823 Sep 18 10:16	0∘ ত المار	
	14822 Oct 12 22.41 14822 Oct 14 04:37	3°M20'41	1.34310 AU	morning set	-	0 <u>a.</u> 5° ჲ 23'16	
asc. node	14022 OCI 14 U4:3/	3 IIIG20141		morning set max. Earth dist.	14823 Sep 21 11:29 14823 Sep 25 01:03	3° <u>≈</u> 23′16 11° <u>≈</u> 54'59	1.36370 AU
superior conj	14822 Oct 17 20:00	10°M47'35	0°33'21	max. Earm uist.	17023 Sep 23 01.03	11 == 34 39	1.505 / 0 AU
minimum elong	14822 Oct 17 20:00 14822 Oct 17 18:18	10°M38'46	0°33'36	superior conj	14823 Oct 01 10:08	24° ₽ 13'26	0°03'26
evening rise	14822 Oct 17 18.18 14822 Oct 25 05:21	26°M22'01	0 33 30	minimum elong	14823 Oct 01 10.08 14823 Oct 01 09:55	24° 2 13'20	0°03'43
evening 11se	14822 Oct 26 23:11	20 IIC22 01 0° √		behind sun begin	14823 Oct 01 09:33	24 ≅ 12 19 23° ♀ 41'24	0 03 43
evening max el	14822 Nov 13 18:05	0 x · 28° x 34'50	21°11'52	behind sun begin	14823 Oct 01 05.41 14823 Oct 01 16:08	23 ≅ 41 24 24° £ 43'18	
Svennig max ei	14822 Nov 15 18:05	28 x 34 30	21 11 J2	asc. node	14823 Oct 01 10:08	23° £ 29'13	
desc. node	14822 Nov 15 18:12	0° る 23'57		use. Houe	14823 Oct 04 07:07	0°M₁	
retrograde	14822 Nov 25 14:33	4°る27'37		evening rise	14823 Oct 04 07:07	10°M34'25	
evening set	14822 Nov 28 07:26	4° ට 10'32			14823 Oct 19 19:32	0° ∡ 7	
inferior conj	14822 Dec 07 03:22	0°る18'20	-5°36'17	evening max el	14823 Oct 26 23:11	9° × ⁷ 25'19	19°52'19
minimum elong	14822 Dec 06 19:44	0° ට 1820		desc. node	14823 Nov 02 15:27	13° × ⁷ 55'12	1, 021)
	1.022 200 00 17.44	0 02700	5 5 . 05	acce. node	1.025 1101 02 15.27	12	

ratra ara da	14922 Nov. 06, 04:20	140.721110		dasa mada	14924 Oct. 10, 12:46	250M 12122	
retrograde	14823 Nov 06 04:39 14823 Nov 08 04:36	14° ₹ 31'18 14° ₹ 20'31		desc. node inferior conj	14824 Oct 19 12:46	25°M12'33 20°M57'19	2022122
evening set inferior conj	14823 Nov 16 23:59	14 x ·2031 10° x 20′22	1010112	minimum elong	14824 Oct 27 13:57 14824 Oct 27 07:34	20 1163/19 21°ML08'36	
minimum elong	14823 Nov 16 23:39 14823 Nov 16 14:03		4°14'15	min. Earth dist.	14824 Oct 30 12:50		0.56533 AU
min. Earth dist.	14823 Nov 10 14:03	9° ∡ 05'47	0.55080 AU	morning rise	14824 Nov 04 04:59	16°ML10'01	0.30333 AO
morning rise	14823 Nov 24 22:05	6° ₹ 0547	0.33080 AC	direct	14824 Nov 09 23:58	14°ML50'25	
direct	14823 Nov 24 22:03	5° ∡ 12'57		morning max el	14824 Nov 24 03:51	22°M07'47	26°13'24
morning max el	14823 Nov 29 22:03 14823 Dec 13 16:21	12° × 1237	24°34'37	morning max ci	14824 Nov 24 03:31 14824 Dec 01 02:43	0° %	20 13 24
morning max cr	14823 Dec 27 07:05	0°る	24 3437	asc. node	14824 Dec 13 22:50	20° ₹ 109'46	
asc. node	14823 Dec 28 01:45	ਾਠ18'47		ase. node	14824 Dec 19 00:28	0°る	
morning set	14824 Jan 08 03:38	22°る55'22		morning set	14824 Dec 22 14:34	7° る 31'26	
morning sec	14824 Jan 11 09:38	0°≈		morning set	14024 DCC 22 14.54	7 031 20	
	14024 Juli 11 07.30	0 ~		superior conj	14824 Dec 29 08:47	22° る 26'37	1°37'57
superior conj	14824 Jan 14 22:21	7° ≈ 46'06	1°35'33	minimum elong	14824 Dec 29 08:40		1°38'55
minimum elong	14824 Jan 14 23:18	7°≈51'21	1°36'23	max. Earth dist.	14824 Dec 30 07:29	24°る32'52	1.31435 AU
max. Earth dist.	14824 Jan 17 02:00	12°≈27'37	1.32300 AU	max. Earth dist.	14825 Jan 01 18:46	0°≈	1.51455710
evening rise	14824 Jan 22 08:22	23°≈32'36	1.32300 AC	evening rise	14825 Jan 05 08:40	0 ~ 7° ≈ 41'03	
evening 1130	14824 Jan 25 14:16	0° ₩		desc. node	14825 Jan 15 11:37	27°≈17'03	
desc. node	14824 Jan 29 14:57	7°) 34′05		desc. node	14825 Jan 17 01:08	0° \	
dese. Hode	14824 Feb 12 13:25	0° Υ		evening max el	14825 Feb 06 04:57	27° ¥ 16'14	27°25'34
evening max el	14824 Feb 24 20:24	14° Ƴ 41'55	27°34'05	evening max er	14825 Feb 09 08:08	0°Υ	27 23 34
retrograde	14824 Mar 09 16:23	22°Υ10'20	27 54 05	retrograde	14825 Feb 20 04:15	4° Υ 36'41	
evening set	14824 Mar 16 12:16	19° Υ 46'59		evening set	14825 Feb 27 00:04	2° Υ 28'37	
min. Earth dist.	14824 Mar 20 06:53	16° Υ 34'10	0.63333 AU	evening set	14825 Mar 02 08:50	2 1 20 3 / 30°R 	
inferior conj	14824 Mar 23 02:03	13° Υ 45'10		min. Earth dist.	14825 Mar 02 19:06	29°) 38'20	0.61186 AU
minimum elong	14824 Mar 23 03:12	13° Υ 42'14		inferior conj	14825 Mar 05 22:03	26°\(\frac{1}{36}\)200	
asc. node	14824 Mar 24 22:42	11° Υ 55'39	0 33 30	minimum elong	14825 Mar 06 02:10	26° X 42'49	
morning rise	14824 Mar 29 20:41	8° Υ 30'33		asc. node	14825 Mar 11 20:09	22° X 29'59	1 3237
direct	14824 Apr 01 06:10	8° Υ 02'44		morning rise	14825 Mar 13 07:25	21° H 55'32	
morning max el	14824 Apr 07 17:39	11° Υ 21'10	17°46'29	direct	14825 Mar 15 10:39	21° X 36'13	
morning max cr	14824 Apr 20 11:52	0°8	17 402)	morning max el	14825 Mar 22 10:10	25° H 06'48	17°52'12
morning set	14824 Apr 24 02:49	6° 8 12'49		morning max er	14825 Mar 26 11:45	0°Υ	17 32 12
desc. node	14824 Apr 26 17:07	10° 8 40'10		morning set	14825 Apr 07 01:31	19° Y 28'32	
dese. Hode	1102111p1 20 17.07	10 0 10 10		morning sec	•		
					14825 Apr 12 22:13	0° ⊼	
superior coni	14824 May 06 15:37	27° X 20'12	-1°13'15	desc. node	14825 Apr 12 22:13	0° と 1° と 08'43	
superior conj	14824 May 06 15:37 14824 May 06 08:31	27° 8 20'12		desc. node	14825 Apr 12 22:13 14825 Apr 13 13:45	1° 8 08'43	
superior conj minimum elong	14824 May 06 08:31	26° 8 51'09			14825 Apr 13 13:45	1° 8 08'43	-0°34'15
minimum elong	14824 May 06 08:31 14824 May 08 06:49	26° 8 51'09 0° П	1°13'06	superior conj	14825 Apr 13 13:45 14825 Apr 17 21:34	1°808'43 8°841'23	
minimum elong max. Earth dist.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26	26° 8 51'09 0° П 6° П 56'16		superior conj minimum elong	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27	1°808'43 8°841'23 8°827'57	0°34'19
minimum elong	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52	26° 8 51'09 0°П 6°П56'16 21°П27'59	1°13'06	superior conj	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35	1°808'43 8°841'23 8°827'57 20°858'50	
minimum elong max. Earth dist.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42	26° 8 51'09 0°П 6°П56'16 21°П27'59 0°©	1°13'06	superior conj minimum elong max. Earth dist.	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28	1°808'43 8°841'23 8°827'57 20°858'50 0°Ⅲ	0°34'19
minimum elong max. Earth dist. evening rise	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47	26°♂51'09 0°Ⅲ 6°Ⅲ56'16 21°Ⅲ27'59 0°ॐ 0°Ω	1°13'06 1.44739 AU	superior conj minimum elong	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58	1°808'43 8°841'23 8°827'57 20°858'50 0°Ⅲ 1°Ⅲ20'38	0°34'19
minimum elong max. Earth dist. evening rise evening max el	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45	26°\\$51'09 0°\\$\\$6°\\$56'16 21°\\$\\$27'59 0°\\$\\$0°\\$\\$0°\\$\\$1°\\$\\$A48'15	1°13'06	superior conj minimum elong max. Earth dist. evening rise	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57	1°808'43 8°841'23 8°827'57 20°858'50 0°Ⅲ 1°Ⅲ20'38 0°9	0°34'19 1.43177 AU
minimum elong max. Earth dist. evening rise evening max el asc. node	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24	26°\\$51'09 0°\\$\\$6°\\$56'16 21°\\$\\$27'59 0°\\$\\$0°\\$\\$0°\\$\\$1°\\$\\$48'15 2°\\$\\$\\$\\$\\$45'09	1°13'06 1.44739 AU	superior conj minimum elong max. Earth dist. evening rise evening max el	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33	1°808'43 8°841'23 8°827'57 20°858'50 0°Ⅲ 1°Ⅲ20'38 0° 15° 939'54	0°34'19
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 28 00:17	26°\\$51'09 0°\\$\\$6°\\$56'16 21°\\$\\$27'59 0°\\$\\$0°\\$\\$0°\\$\\$1 1°\\$\\$\\$48'15 2°\\$\\$\\$\\$45'09 6°\\$\\$\\$\\$29'12	1°13'06 1.44739 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23	1°808'43 8°841'23 8°827'57 20°858'50 0°Ⅲ 1°Ⅲ20'38 0°9 15°939'54 19°945'31	0°34'19 1.43177 AU
minimum elong max. Earth dist. evening rise evening max el asc. node	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04	26°\S51'09 0°\Π 6°\Π56'16 21°\Π27'59 0°\S 0°\Ω 1°\Ω48'15 2°\Ω45'09 6°\Ω29'12 4°\Ω51'19	1°13'06 1.44739 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30	1°808'43 8°841'23 8°827'57 20°858'50 0°П 1°П20'38 0°9 15°939'54 19°945'31 21°904'15	0°34'19 1.43177 AU
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03	26°\S51'09 0°\Π 6°\Π56'16 21°\Π27'59 0°\S 0°\Ω 1°\Ω48'15 2°\Ω45'09 6°\Ω29'12 4°\Ω51'19 30°\S	1°13'06 1.44739 AU 20°37'09	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19	1°808'43 8°841'23 8°827'57 20°858'50 0°П 1°П20'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41	0°34'19 1.43177 AU 21°50'47
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04	26°\S51'09 0°\Π 6°\Π56'16 21°\Π27'59 0°\\$ 0°\\$ 1°\\$\Ω48'15 2°\\$\Ω45'09 6°\\$\Ω29'12 4°\\$\Ω51'19 30°\\$\\$ 28°\\$\S44'40	1°13'06 1.44739 AU 20°37'09 3°10'16	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20	1°808'43 8°841'23 8°827'57 20°858'50 0°П 1°П20'38 0°© 15°©39'54 19°©45'31 21°©04'15 19°©90'41 12°©52'37	0°34'19 1.43177 AU 21°50'47 3°06'13
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04	26°\S51'09 0°\Π 6°\Π56'16 21°\Π27'59 0°\\$ 0°\\$ 1°\\$\Ω48'15 2°\\$\Ω45'09 6°\\$\Ω29'12 4°\\$\Ω51'19 30°\\$\\$ 28°\\$\\$\\$\\$44'40 28°\\$\\$\\$\\$\\$411	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31	1°808'43 8°841'23 8°827'57 20°858'50 0°П 1°П20'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22	26°\S51'09 0°\Pi 6°\Pi56'16 21°\Pi27'59 0°\Si 0°\Omega 1°\Omega48'15 2°\Omega45'09 6°\Omega29'12 4°\Omega51'19 30°\Si 28°\S44'40 28°\S44'11 27°\S51'54	1°13'06 1.44739 AU 20°37'09 3°10'16	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 18:31	1°808'43 8°841'23 8°827'57 20°858'50 0°Ш 1°Ш20'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48	0°34'19 1.43177 AU 21°50'47 3°06'13
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 08 01:22 14824 Jul 12 16:01	26° \S51'09 0° \Π 6° \Π56'16 21° \Π27'59 0° \Θ 0° \Ω 1° \Ω48'15 2° \Ω45'09 6° \Ω29'12 4° \Ω51'19 30° \Θ 28° \S44'40 28° \S44'11 27° \S51'54 22° \S23'15	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jun 20 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29	26°\S51'09 0°\Π 6°\Π56'16 21°\Π27'59 0°\\$ 0°\Ω 1°\Ω48'15 2°\Ω45'09 6°\Ω29'12 4°\Ω51'19 30°\\$ 28°\\$44'40 28°\\$44'11 27°\\$51'54 22°\\$23'15 20°\\$01'24	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 18 01:29 14824 Jul 23 16:30	26°\S51'09 0°\Π 6°\Π56'16 21°\Π27'59 0°\Θ 0°\Ω 1°\Ω48'15 2°\Ω45'09 6°\Ω29'12 4°\Ω51'19 30°\Θ 28°\G44'40 28°\G44'11 27°\G51'54 22°\G23'15 20°\G01'24 22°\G02'09	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°9552'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 29 00:17	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Φ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° № 28° Φ44'40 28° Φ44'11 27° Φ51'54 22° Φ23'15 20° Φ01'24 22° Φ02'09 26° Φ34'00	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 12 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 10 13:48	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°955'26 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Jul 29 00:17 14824 Aug 01 04:31	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Φ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° RΦ 28° Φ44'40 28° Φ44'11 27° Φ51'54 22° Φ23'15 20° Φ01'24 22° Φ02'09 26° Φ34'00 0° Ω	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 18:31 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°955'26 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°Ω	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 01 04:31	26° \$51'09 0° \$\mathbb{G}\$ 6° \$\mathbb{G}\$51'16 21° \$\mathbb{H}\$27'59 0° \$\mathbb{G}\$ 0° \$\Omega\$ 1° \$\Omega\$48'15 2° \$\Omega\$45'09 6° \$\Omega\$29'12 4° \$\Omega\$51'19 30° \$\mathbb{G}\$ 28° \$\mathbb{G}\$44'40 28° \$\mathbb{G}\$44'40 28° \$\mathbb{G}\$44'11 27° \$\mathbb{G}\$51'54 22° \$\mathbb{G}\$23'15 20° \$\mathbb{G}\$01'24 22° \$\mathbb{G}\$20'09 26° \$\mathbb{G}\$34'00 0° \$\Omega\$ 0° \$\mathbb{M}\$	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 18:31 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 01 30:32 14825 Jul 10 13:48 14825 Jul 17 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43	1°808'43 8°841'23 8°827'57 20°858'50 0°II 1°II20'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°Ω 27°Ω08'09	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU
minimum elong max. Earth dist. evening rise 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	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 29 00:17 14824 Jul 29 00:17 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22	26° \$51'09 0° \$\mathbb{G}\$ 51'09 0° \$\mathbb{G}\$ 6° \$\mathbb{M}\$ 56'16 21° \$\mathbb{M}\$ 27'59 0° \$\mathbb{G}\$ 0° \$\Omega\$ 1° \$\Omega\$ 445'09 6° \$\Omega\$ 29'12 4° \$\Omega\$ 51'19 30° \$\mathbb{G}\$ 28° \$\mathbb{G}\$ 44'40 28° \$\mathbb{G}\$ 44'40 28° \$\mathbb{G}\$ 44'40 28° \$\mathbb{G}\$ 44'41 27° \$\mathbb{G}\$ 51'54 22° \$\mathbb{G}\$ 23'15 20° \$\mathbb{G}\$ 100 0° \$\Omega\$ 0° \$\mathbb{G}\$ 0° \$\mathbb{M}\$ 16° \$\mathbb{M}\$ 46'21	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 17 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 15 15:54	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°Ω 27°Ω08'09 0°10	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42
minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 10:17 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 05 23:14	26° \$51'09 0° \$\mathbb{G}\$ 6° \$\mathbb{G}\$51'16 21° \$\mathbb{H}\$27'59 0° \$\mathbb{G}\$ 0° \$\Omega\$ 1° \$\Omega\$48'15 2° \$\Omega\$45'09 6° \$\Omega\$29'12 4° \$\Omega\$51'19 30° \$\mathbb{G}\$ 28° \$\mathbb{G}\$44'40 28° \$\mathbb{G}\$44'40 28° \$\mathbb{G}\$44'11 27° \$\mathbb{G}\$51'54 22° \$\mathbb{G}\$23'15 20° \$\mathbb{G}\$01'24 22° \$\mathbb{G}\$20'09 26° \$\mathbb{G}\$34'00 0° \$\Omega\$ 0° \$\mathbb{M}\$	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU	superior conj minimum elong max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 18:31 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 01 30:32 14825 Jul 10 13:48 14825 Jul 17 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°Ω 27°Ω08'09 0°10	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU
minimum elong max. Earth dist. evening rise 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	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 29 00:17 14824 Jul 29 00:17 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22	26° \$51'09 0° \$\mathbb{O}\$ 0° \$\mathbb{I}\$ 6° \$\mathbb{I}\$ 56'16 21° \$\mathbb{I}\$ 27'59 0° \$\mathbb{O}\$ 0° \$\Omega\$ 1° \$\Omega\$ 48'15 2° \$\Omega\$ 45'09 6° \$\Omega\$ 28' \$\mathbb{O}\$ 44'40 28' \$\mathbb{O}\$ 44'40 28' \$\mathbb{O}\$ 44'40 22' \$\mathbb{O}\$ 23'15 20' \$\mathbb{O}\$ 1'24 22' \$\mathbb{O}\$ 20' \$\mathbb{O}\$ 1'24 22' \$\mathbb{O}\$ 20' \$\mathbb{O}\$ 1'00 0° \$\Omega\$ 0° \$\mathbb{M}\$ 16' \$\mathbb{M}\$ 46'21 23' \$\mathbb{M}\$ 19'58	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 11 22:30 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 18 23:57	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°Ω 27°Ω08'09 0°10	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42
minimum elong max. Earth dist. evening rise 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.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 01 04:31 14824 Sep 02 04:22 14824 Sep 05 23:14 14824 Sep 09 16:24	26°♥51'09 0°Ⅲ 6°Ⅲ56'16 21°Ⅲ27'59 0°☞ 0°Ω 1°Ω48'15 2°Ω45'09 6°Ω29'12 4°Ω51'19 30°№ 28°™44'40 28°™44'40 28°™44'40 22°™23'15 20°™01'24 22°™02'09 26°™34'00 0°Ω 0°™ 16°™46'21 23°™19'58 0°™	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU	superior conj minimum elong max. Earth dist. evening rise 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.	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 10 13:48 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 18 23:57	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°0 27°\$08'09 0°10 5°1032'17	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37
minimum elong max. Earth dist. evening rise 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.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 09 16:24	26° ₹51'09 0° Ⅲ 6° Ⅲ 56'16 21° Ⅲ 27'59 0° ⑤ 0° Ω 1° Ω 48'15 2° Ω 45'09 6° Ω 29'12 4° Ω 51'19 30° № ⑤ 28° ⑤ 44'40 28° ⑤ 44'40 28° ⑥ 44'11 27° ⑥ 51'54 22° ⑥ 23'15 20° ⑥ 01'24 22° ⑥ 02'09 26° ⑥ 34'00 0° Ω 0° ᠓ 16° ᠓ 46'21 23° ᠓ 19'58 0° Ω	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 16 13:19 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 18 23:57 14825 Aug 26 20:03 14825 Aug 27 01:14	1°808'43 8°841'23 8°827'57 20°858'50 0°11 1°1120'38 0°9 15°939'54 19°945'31 21°904'15 19°909'41 12°952'37 12°955'26 12°945'48 6°937'21 4°932'29 9°918'22 10°913'45 0°0 27°\$08'09 0°10 5°1032'17	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42
minimum elong max. Earth dist. evening rise 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.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 21 21:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 28 00:17 14824 Jul 02 04:04 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 01 04:31 14824 Sep 02 04:22 14824 Sep 03 23:14 14824 Sep 09 16:24	26° \$51'09 0° \$\mathbb{O}\$ 0° \$\mathbb{I}\$ 6° \$\mathbb{I}\$ 56'16 21° \$\mathbb{I}\$ 27'59 0° \$\mathbb{O}\$ 0° \$\mathbb{O}\$ 1° \$\mathbb{O}\$ 48'15 2° \$\mathbb{O}\$ 45'09 6° \$\mathbb{O}\$ 29'12 4° \$\mathbb{O}\$ 51'19 30° \$\mathbb{O}\$ 28° \$\mathbb{O}\$ 44'40 28° \$\mathbb{O}\$ 44'40 28° \$\mathbb{O}\$ 44'41 27° \$\mathbb{O}\$ 51'54 22° \$\mathbb{O}\$ 23'15 20° \$\mathbb{O}\$ 10' \$\mathbb{O}\$ 00' \$	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 12 19:20 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 21:17 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 13 21:43 14825 Aug 14 23:57 14825 Aug 26 20:03 14825 Aug 27 01:14 14825 Sep 01 19:17	1°808'43 8°841'23 8°827'57 20°858'50 0° II 1°II 20'38 0° 9 15° 939'54 19° 945'31 21° 904'15 19° 909'41 12° 952'37 12° 955'26 12° 945'48 6° 937'21 4° 932'29 9° 918'22 10° 913'45 0° Ω 27° Ω08'09 0° ID 5° ID 30'28 0° 92	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37
minimum elong max. Earth dist. evening rise 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	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 29 10:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 05 23:14 14824 Sep 09 16:24	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Θ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° RΘ 28° Θ44'40 28° Θ44'11 27° Θ51'54 22° Θ23'15 20° Θ01'24 22° Θ02'09 26° Θ34'00 0° Ω 0° № 16° №46'21 23° № 19'58 0° Ω 7° Ω03'27 7° Ω13'46 13° Ω36'41	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 12 19:20 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 21:17 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 26 20:03 14825 Aug 27 01:14 14825 Sep 01 19:17 14825 Sep 03 18:21	1°808'43 8°841'23 8°827'57 20°858'50 0°	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37
minimum elong max. Earth dist. evening rise 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.	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 05 23:14 14824 Sep 13 11:35 14824 Sep 13 13:46 14824 Sep 16 21:48 14824 Sep 22 11:18	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Φ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° RΦ 28° Φ44'40 28° Φ44'40 28° Φ44'11 27° Φ51'54 22° Φ02'09 26° Φ34'00 0° Ω 0° M 16° M46'21 23° M19'58 0° Φ 7° Φ03'27 7° Φ13'46 13° Φ36'41 24° Φ29'32	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 21 19:20 14825 Jun 21 19:20 14825 Jun 21 21:17 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 13 21:43 14825 Aug 16 20:03 14825 Aug 27 01:14 14825 Sep 01 19:17 14825 Sep 01 18:21 14825 Sep 06 01:46	1°808'43 8°841'23 8°827'57 20°858'50 0°	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37
minimum elong max. Earth dist. evening rise 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	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 05 23:14 14824 Sep 09 16:24 14824 Sep 13 11:35 14824 Sep 13 13:46 14824 Sep 12 11:18 14824 Sep 22 11:18	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Φ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° RΦ 28° Φ44'40 28° Φ44'40 28° Φ44'11 27° Φ51'54 22° Φ02'09 26° Φ34'00 0° Ω 0° M 16° M46'21 23° M19'58 0° Φ 7° Φ03'27 7° Φ13'46 13° Φ36'41 24° Φ29'32 0° Π.	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41 0°30'16	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 12 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 26 20:03 14825 Aug 27 01:14 14825 Sep 01 19:17 14825 Sep 03 18:21 14825 Sep 06 01:46 14825 Sep 18 23:57	1°808'43 8°841'23 8°827'57 20°858'50 0° Π 1° Π20'38 0° 9 15° 939'54 19° 945'31 21° 904'15 19° 909'41 12° 9552'37 12° 955'26 12° 945'48 6° 937'21 4° 932'29 9° 918'22 10° 913'45 0° Ω 27° Ω08'09 0° № 5° № 32'17 19° № 07'15 19° № 07'15 19° № 07'15	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37 1°06'08
minimum elong max. Earth dist. evening rise 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 evening max el	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 19 20:45 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jun 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:12 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 05 23:14 14824 Sep 09 16:24 14824 Sep 13 11:35 14824 Sep 13 13:46 14824 Sep 14 21:48 14824 Sep 22 11:18 14824 Sep 25 07:13 14824 Oct 08 18:18	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Φ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° № 28° Φ44'40 28° Φ44'11 27° Φ51'54 22° Φ23'15 20° Φ01'24 22° Φ02'09 26° Φ34'00 0° Ω 0° № 16° №46'21 23° № 19'58 0° Φ 7° Ф03'27 7° Ф13'46 13° Ф36'41 24° Ф29'32 0° № 21° №05'45	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41	superior conj minimum elong max. Earth dist. evening rise 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 evening rise	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 12 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 26 20:03 14825 Aug 27 01:14 14825 Sep 01 19:17 14825 Sep 03 18:21 14825 Sep 06 01:46 14825 Sep 18 23:57 14825 Sep 18 23:57	1°808'43 8°841'23 8°841'23 8°827'57 20°858'50 0° II 1°II 20'38 0° 9 15° 939'54 19° 945'31 21° 904'15 19° 909'41 12° 955'26 12° 945'48 6° 937'21 4° 932'29 9° 918'22 10° 913'45 0° Ω 27° Ω08'09 0° ID 5° ID 32'17 19° ID 30'28 0° 9 3° 939'14 7° 958'42 0° IL 3° IL 30'11	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37
minimum elong max. Earth dist. evening rise 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	14824 May 06 08:31 14824 May 08 06:49 14824 May 12 14:26 14824 May 27 12:52 14824 May 27 12:42 14824 Jun 18 03:47 14824 Jun 20 20:24 14824 Jun 20 20:24 14824 Jul 06 12:03 14824 Jul 07 10:04 14824 Jul 07 10:04 14824 Jul 08 01:22 14824 Jul 12 16:01 14824 Jul 18 01:29 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 23 16:30 14824 Jul 29 00:17 14824 Aug 01 04:31 14824 Aug 22 20:49 14824 Sep 02 04:22 14824 Sep 05 23:14 14824 Sep 09 16:24 14824 Sep 13 11:35 14824 Sep 13 13:46 14824 Sep 12 11:18 14824 Sep 22 11:18	26° 851'09 0° Π 6° Π56'16 21° Π27'59 0° Φ 0° Ω 1° Ω48'15 2° Ω45'09 6° Ω29'12 4° Ω51'19 30° RΦ 28° Φ44'40 28° Φ44'40 28° Φ44'11 27° Φ51'54 22° Φ02'09 26° Φ34'00 0° Ω 0° M 16° M46'21 23° M19'58 0° Φ 7° Φ03'27 7° Φ13'46 13° Φ36'41 24° Φ29'32 0° Π.	1°13'06 1.44739 AU 20°37'09 3°10'16 3°09'20 0.68505 AU 23°51'40 1.38713 AU -0°30'41 0°30'16	superior conj minimum elong max. Earth dist. evening rise 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	14825 Apr 13 13:45 14825 Apr 17 21:34 14825 Apr 17 18:27 14825 Apr 25 05:35 14825 Apr 30 20:28 14825 May 01 16:58 14825 May 21 00:57 14825 Jun 02 16:33 14825 Jun 07 17:23 14825 Jun 11 22:30 14825 Jun 12 19:20 14825 Jun 21 19:20 14825 Jun 21 18:31 14825 Jun 21 21:17 14825 Jun 26 23:32 14825 Jul 01 20:32 14825 Jul 10 13:48 14825 Jul 11 12:30 14825 Jul 27 02:25 14825 Aug 13 21:43 14825 Aug 13 21:43 14825 Aug 15 15:54 14825 Aug 26 20:03 14825 Aug 27 01:14 14825 Sep 01 19:17 14825 Sep 03 18:21 14825 Sep 06 01:46 14825 Sep 18 23:57	1°808'43 8°841'23 8°827'57 20°858'50 0° Π 1° Π20'38 0° 9 15° 939'54 19° 945'31 21° 904'15 19° 909'41 12° 9552'37 12° 955'26 12° 945'48 6° 937'21 4° 932'29 9° 918'22 10° 913'45 0° Ω 27° Ω08'09 0° № 5° № 32'17 19° № 07'15 19° № 07'15 19° № 07'15	0°34'19 1.43177 AU 21°50'47 3°06'13 3°05'09 0.68991 AU 22°22'42 1.41071 AU -1°06'37 1°06'08

desc. node	14825 Oct 06 10:12	4°M26'48		evening max el	14826 Sep 05 12:08	16° ≏ 29'17	18002'50
inferior conj	14825 Oct 00 10:12	2°M21'16	0°50!24	retrograde	14826 Sep 12 05:08	10 = 2917 19° £ 56'31	18 02 39
minimum elong	14825 Oct 09 01:43	2°M25'11	0°49'21	evening set	14826 Sep 14 14:16	19° 2 30'22	
minimum ciong	14825 Oct 08 23:32 14825 Oct 11 22:05	2 11G25 11 30°R <u>Ω</u>	0 4921	inferior conj	14826 Sep 21 10:00	19 ⊆ 30 22 14° ⊆ 30'45	0°35'04
min. Earth dist.	14825 Oct 12 08:17	29° ₽ 39'41	0.58550 AU	minimum elong	14826 Sep 21 11:05	14° ⊆ 28'11	0°34'49
morning rise	14825 Oct 16 07:33	26° ⊆ 57'13	0.30330710	desc. node	14826 Sep 23 07:42	14 — 20 11 12° — 40'47	0 5447
direct	14825 Oct 22 15:41	25° ⊆ 10'52		min. Earth dist.	14826 Sep 24 13:08	11° ⊆ 31'57	0.60820 AU
ancet	14825 Nov 02 18:49	0°ML		morning rise	14826 Sep 28 04:53	8° ≏ 37'11	0.00020710
morning max el	14825 Nov 05 22:59	2°M49'45	27°24'00	direct	14826 Oct 04 19:55	6° £ 26'09	
morning max or	14825 Nov 25 15:51	0° √	27 2100	morning max el	14826 Oct 19 01:56		27°56'46
asc. node	14825 Nov 30 19:49	9° × 729'10		morning max ci	14826 Oct 31 17:36	0°M	27 30 40
morning set	14825 Dec 06 22:39	21° ×7 55'27		asc. node	14826 Nov 17 16:42	29°ML09'15	
morning sec	14825 Dec 10 15:48	0°중		use. Hode	14826 Nov 18 02:54	0° x 7	
	11020 200 10 10.10	• •		morning set	14826 Nov 21 02:03	6° х ⁷ 03′11	
superior conj	14825 Dec 13 20:18	7° る 06'24	1°34'21	max. Earth dist.	14826 Nov 26 22:24	18° ∡ 39'36	1.31288 AU
minimum elong	14825 Dec 13 19:11	7° ろ 00'06	1°35'18				
max. Earth dist.	14825 Dec 13 15:32	6° ට 39'41	1.31092 AU	superior conj	14826 Nov 28 07:05	21° х 40'53	1°24'51
evening rise	14825 Dec 20 14:27	22° る 01'13	1.510,2110	minimum elong	14826 Nov 28 05:11	21°×730'18	1°25'38
e renning rise	14825 Dec 24 10:20	0°≈		mmmum viong	14826 Dec 02 00:48	0°ਰ	1 20 00
desc. node	14826 Jan 02 08:22	16°≈30'22		evening rise	14826 Dec 04 23:44	6° る 28'42	
dese. node	14826 Jan 11 08:45	0° ∀		evening rise	14826 Dec 17 02:06	0°≈	
evening max el	14826 Jan 19 06:51	9° ₩ 00'25	26°42'06	desc. node	14826 Dec 20 05:15	5° ≈ 03'19	
retrograde	14826 Feb 02 06:20	16° ¥ 10'43	20 .200	evening max el	14827 Jan 01 00:19	19° ≈ 51'28	25°26'08
evening set	14826 Feb 08 19:07	14°) 24'56		retrograde	14827 Jan 14 21:18	26°≈50'17	20 20 00
min. Earth dist.	14826 Feb 12 20:37	11°) (47'06	0.58972 AU	evening set	14827 Jan 20 17:33	25° ≈ 32'21	
inferior conj	14826 Feb 16 01:03	9°) 19'41		min. Earth dist.	14827 Jan 25 12:46	22° ≈ 51'55	0.56930 AU
minimum elong	14826 Feb 16 08:31	9° ₩ 05'15		inferior conj	14827 Jan 28 07:55	20°≈59'30	
morning rise	14826 Feb 24 01:11	4°)(44'22	5 10 2 1	minimum elong	14827 Jan 28 17:03	20° ≈ 44'11	4°42'04
direct	14826 Feb 26 01:13	4°) (30'01		morning rise	14827 Feb 05 19:17	16° ≈ 46'06	20.
asc. node	14826 Feb 26 17:36	4°) €31'45		direct	14827 Feb 07 21:36	16° ≈ 33'02	
morning max el	14826 Mar 05 21:53	8°) €23'29	18°17'20	asc. node	14827 Feb 13 15:03	18° ≈ 17'28	
morning man vi	14826 Mar 19 19:43	0°Υ	10 1, 20	morning max el	14827 Feb 17 00:45	21°≈00'02	19°03'39
morning set	14826 Mar 21 14:50	3° Υ 23'20		morning man er	14827 Feb 23 22:38	0° ₩	1, 03.0,
				morning set	14827 Mar 05 14:12	17°) 43′39	
superior conj	14826 Mar 31 01:51	21° Y °03'26	0000154				
	14020 Mai 31 01.31	21 1 03 20	0°02'54		14827 Mar 11 19:36	$0^{\circ}\mathbf{\Upsilon}$	
	14826 Mar 31 02:02	21 γ 03 20 21° γ 04'17	0°02'54 0°02'35		14827 Mar 11 19:36	0-1	
minimum elong		21° Y ′04'17		superior conj	14827 Mar 11 19:36 14827 Mar 14 00:12		0°34'52
minimum elong behind sun begin	14826 Mar 31 02:02 14826 Mar 30 18:43			superior conj	14827 Mar 14 00:12	4° Υ 13'59	
minimum elong	14826 Mar 31 02:02	21° Y 04'17 20° Y 31'00		superior conj minimum elong desc. node			0°34'52 0°34'33
minimum elong behind sun begin behind sun end	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45		minimum elong	14827 Mar 14 00:12 14827 Mar 14 02:15	4°Υ13'59 4°Υ23'50	
minimum elong behind sun begin behind sun end	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40	21° Y '04'17 20° Y '31'00 21° Y '37'29		minimum elong desc. node max. Earth dist.	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49	4°Υ13'59 4°Υ23'50 12°Υ15'32	0°34'33
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8	0°02'35	minimum elong desc. node	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28	4°Y13'59 4°Y23'50 12°Y15'32 17°Y03'35 23°Y42'36	0°34'33
minimum elong behind sun begin behind sun end desc. node	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10	0°02'35	minimum elong desc. node max. Earth dist.	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35	0°34'33
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II	0°02'35 1.41149 AU	minimum elong desc. node max. Earth dist. evening rise	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π	0°34'33 1.38889 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05	0°02'35 1.41149 AU	minimum elong desc. node max. Earth dist. evening rise	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘	0°34'33 1.38889 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10	0°02'35 1.41149 AU	minimum elong desc. node max. Earth dist. evening rise	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39	0°34'33 1.38889 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°S	0°02'35 1.41149 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30	0°34'33 1.38889 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°\$ 5°\$34'26	0°02'35 1.41149 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°П53'54	0°34'33 1.38889 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°S 5°S34'26 5°S40'30	0°02'35 1.41149 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°П50'10	0°34'33 1.38889 AU 24°31'46
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°8'23'10 12°8'04'05 0°II 29°II32'10 0°S 5°S34'26 5°S40'30 3°S31'04	0°02'35 1.41149 AU 23°11'02	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 20 13:43	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°П53'54 17°П50'10 12°П39'37	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 08:09 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°S 5°S34'26 5°S40'30 3°S31'04 30°RII	0°02'35 1.41149 AU 23°11'02 2°51'42	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 10 11:17 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 11:24	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°П53'54 17°П50'10 12°П39'37 11°П20'02	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°S 5°S34'26 5°S40'30 3°S31'04 30°RII 27°II05'50	0°02'35 1.41149 AU 23°11'02 2°51'42	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 10 11:17 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0° Μ 13° Щ25'39 20° Щ11'30 19° Щ53'54 17° Щ50'10 12° Щ39'37 11° Щ20'02 11° Щ26'59	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 25 14:28 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°II05'50 27°II11'19	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°П53'54 17°П50'10 12°П39'37 11°П20'02 11°П26'59 5°П20'49	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°I11'19 27°I43'53	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0° Π 13° Π25'39 20° Π11'30 19° Π53'54 17° Π50'10 12° Π39'37 11° Π20'02 11° Π26'59 5° Π20'49 3° Π55'53	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°II1'19 27°I43'53 20°I58'01	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 10 11:17 14827 May 16 01:04 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°П53'54 17°П50'10 12°П39'37 11°П20'02 11°П26'59 5°П20'49 3°П55'53 8°П04'45	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°II1'19 27°II43'53 20°I58'01 19°I12'52	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 10 11:17 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°Β 0°Π 13°Π25'39 20°Π11'30 19°П53'54 17°П50'10 12°П39'37 11°П20'02 11°П26'59 5°П20'49 3°П55'53 8°П04'45 16°П35'53	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°II05'50 27°II1'19 27°II43'53 20°II58'01 19°II12'52 24°II03'51	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°П53'54 17°П50'10 12°П39'37 11°П20'02 11°П26'59 5°П20'49 3°П55'53 8°П04'45 16°П35'53 0°©	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 24 05:25	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°11 29°132'10 0°9 5°934'26 5°940'30 3°931'04 30°R11 27°1105'50 27°111'19 27°143'53 20°158'01 19°112'52 24°1103'51 27°135'07	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 20 13:43 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 03 18:51	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°© 15°©17'46 0°Ω	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 15 18:34 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°S 5°S34'26 5°S40'30 3°S31'04 30°RII 27°I105'50 27°I11'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 20 13:43 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 13:28 14827 May 20 13:43 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 03 18:51 14827 Jul 13 05:55	4°Y13'59 4°Y23'50 12°Y15'32 17°Y03'35 23°Y42'36 0°B 0°II 13°II25'39 20°II11'30 19°II53'54 17°II50'10 12°II39'37 11°II20'02 11°II26'59 5°II20'49 3°II55'53 8°II04'45 16°II35'53 0°G 15°G17'46 0°Ω	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jun 29 10:49	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°© 5°S34'26 5°S40'30 3°S31'04 30°RII 27°I105'50 27°I11'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07 0°S 0°Ω	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 20 13:43 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 13:28 14827 May 20 13:43 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 03 18:51 14827 Jul 13 05:55	4°Y13'59 4°Y23'50 12°Y15'32 17°Y03'35 23°Y42'36 0°B 0°II 13°II25'39 20°II11'30 19°II53'54 17°II50'10 12°II39'37 11°II20'02 11°II26'59 5°II20'49 3°II55'53 8°II04'45 16°II35'53 0°G 15°G17'46 0°Ω	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 25 14:28 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 07 06 03:31 14826 Jun 07 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jun 29 10:49 14826 Jul 20 10:24 14826 Jul 24 15:29	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°II05'50 27°II1'19 27°II43'53 20°II58'01 19°II2'52 24°II03'51 27°II35'07 0°\$ 0°\$ 0°\$ 0°\$ 6°\$\Omega\$30'15	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58	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.	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 12 11:41 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 03 18:51 14827 Jul 13 05:55 14827 Jul 14 19:13	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°© 15°©17'46 0°Ω 2°Ω27'15	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 30 18:43 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 25 14:28 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 07 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jul 20 10:24 14826 Jul 24 15:29 14826 Aug 01 06:32	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°II32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°II05'50 27°II1'19 27°II43'53 20°II58'01 19°II2'52 24°II03'51 27°II35'07 0°\$ 0°\$ 0°\$ 0°\$ 6°\$\Omega\$30'15	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58	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	14827 Mar 14 00:12 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 13 05:55 14827 Jul 13 05:55 14827 Jul 14 19:13	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°© 15°©17'46 0°Ω 2°Ω27'15	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise 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	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jul 20 10:24 14826 Jul 24 15:29 14826 Aug 01 06:32	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°I11'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07 0°\$ 0°\$ 0°\$ 6°\$\Omega30'15 18°\$\Omega37'36	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58 1.43160 AU -1°40'12	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	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 13 05:55 14827 Jul 14 19:13 14827 Jul 19 18:43 14827 Jul 20 00:52 14827 Jul 31 15:21	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°© 15°©17'46 0°Ω 2°Ω27'15	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise 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.	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jul 24 15:29 14826 Aug 01 06:32 14826 Aug 08 07:13 14826 Aug 08 07:13	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°I11'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07 0°\$ 0°\$ 0°\$ 0°\$ 6°\$\Omega30'15 18°\$\Omega37'36	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58 1.43160 AU -1°40'12	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	14827 Mar 14 00:12 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 13 05:55 14827 Jul 14 19:13 14827 Jul 19 18:43 14827 Jul 19 18:43 14827 Jul 20 00:52 14827 Jul 31 15:21 14827 Aug 02 08:20	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°© 15°©17'46 0°Ω 2°Ω27'15 10°Ω24'31 10°Ω49'17 0°Μ	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise 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	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jun 29 10:49 14826 Jul 24 15:29 14826 Aug 08 07:13 14826 Aug 08 07:13 14826 Aug 08 07:13 14826 Aug 08 07:13	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°I11'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58 1.43160 AU -1°40'12	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 evening rise	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 16 01:04 14827 May 21 13:28 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 13 05:55 14827 Jul 14 19:13 14827 Jul 19 18:43 14827 Jul 20 00:52 14827 Jul 31 15:21	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°℧ 0°П 13°П25'39 20°П11'30 19°П53'54 17°П50'10 12°П39'37 11°П20'02 11°П26'59 5°П20'49 3°П55'53 8°П04'45 16°П35'53 0°© 15°©17'46 0°Ω 2°Ω27'15 10°Ω24'31 10°Ω49'17 0°™ 2°™53'10	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise 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	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 30 18:43 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jun 29 10:49 14826 Jun 20 10:24 14826 Aug 01 06:32 14826 Aug 08 07:13 14826 Aug 08 07:13 14826 Aug 08 03:31 14826 Aug 08 03:31 14826 Aug 08 03:31	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°II1'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58 1.43160 AU -1°40'12	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 evening rise asc. node	14827 Mar 14 00:12 14827 Mar 14 02:15 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 16 01:04 14827 May 21 11:24 14827 May 21 13:28 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 31 15:55 14827 Jul 13 05:55 14827 Jul 14 19:13 14827 Jul 19 18:43 14827 Jul 19 18:43 14827 Jul 20 00:52 14827 Jul 31 15:21 14827 Aug 02 08:20 14827 Aug 08 11:31 14827 Aug 08 11:31	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°© 15°©17'46 0°Ω 2°Ω27'15 10°Ω24'31 10°Ω49'17 0°ႃ 2°ႃ\$53'10 13°\$\$\$13'46	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03 2°05'32
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise 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	14826 Mar 31 02:02 14826 Mar 30 18:43 14826 Mar 31 09:22 14826 Mar 31 10:19 14826 Apr 05 02:40 14826 Apr 07 15:56 14826 Apr 12 06:36 14826 Apr 23 18:23 14826 May 16 08:09 14826 May 16 19:27 14826 May 25 14:28 14826 May 26 18:34 14826 May 31 20:52 14826 Jun 04 01:41 14826 Jun 06 05:06 14826 Jun 06 03:31 14826 Jun 05 18:06 14826 Jun 11 10:07 14826 Jun 15 18:34 14826 Jun 24 05:25 14826 Jun 27 11:00 14826 Jun 29 10:49 14826 Jun 29 10:49 14826 Jul 24 15:29 14826 Aug 08 07:13 14826 Aug 08 07:13 14826 Aug 08 07:13 14826 Aug 08 07:13	21°Y04'17 20°Y31'00 21°Y37'29 21°Y41'45 0°8 4°823'10 12°804'05 0°II 29°I32'10 0°\$ 5°\$34'26 5°\$40'30 3°\$31'04 30°RII 27°I105'50 27°I11'19 27°I43'53 20°I58'01 19°I12'52 24°I03'51 27°I35'07 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	0°02'35 1.41149 AU 23°11'02 2°51'42 2°50'27 0.68988 AU 20°59'58 1.43160 AU -1°40'12	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 evening rise asc. node	14827 Mar 14 00:12 14827 Mar 18 06:49 14827 Mar 20 22:23 14827 Mar 24 17:28 14827 Mar 28 11:04 14827 Apr 17 13:17 14827 Apr 28 21:49 14827 May 10 11:17 14827 May 12 11:41 14827 May 20 13:43 14827 May 21 13:28 14827 May 21 11:24 14827 May 21 11:24 14827 May 26 21:54 14827 May 30 18:21 14827 May 30 18:21 14827 Jun 07 05:11 14827 Jun 14 08:06 14827 Jun 23 16:30 14827 Jul 31 15:55 14827 Jul 14 19:13 14827 Jul 19 18:43 14827 Jul 20 00:52 14827 Jul 31 15:21 14827 Aug 02 08:20 14827 Aug 08 11:31	4°Υ13'59 4°Υ23'50 12°Υ15'32 17°Υ03'35 23°Υ42'36 0°႘ 0°Π 13°Π25'39 20°Π11'30 19°Π53'54 17°Π50'10 12°Π39'37 11°Π20'02 11°Π26'59 5°Π20'49 3°Π55'53 8°Π04'45 16°Π35'53 0°Θ 15°Θ17'46 0°Ω 2°Ω27'15 10°Ω24'31 10°Ω49'17 0°ႃ 2° \$\mathbf{N}\$53'10 13°\$\mathbf{N}\$13'46 29°\$\mathbf{N}\$52'33	0°34'33 1.38889 AU 24°31'46 0.68509 AU 2°26'49 2°25'24 19°49'00 1.44759 AU -2°05'03 2°05'32

evening set	14827 Aug 29 05:25	2° ₽ 34'10			14828 Jul 23 15:42	0° m)	
evening set	14827 Sep 01 19:03	30°R MD		asc. node	14828 Jul 25 08:11	2° m/35'38	
inferior conj	14827 Sep 04 10:46	27° mp 16'47	1°39'45	evening max el	14828 Aug 02 16:33	13° m) 31'51	18°27'19
minimum elong	14827 Sep 04 13:03	27° m 10'35	1°38'52	retrograde	14828 Aug 09 03:01	16° m 58'49	
min. Earth dist.	14827 Sep 07 03:45	24° Mp 21'42	0.63076 AU	evening set	14828 Aug 12 05:31	16° m 04'50	
desc. node	14827 Sep 10 05:14	21° Mp 30° 00		inferior conj	14828 Aug 18 00:04	10° m 31'38	2°24'51
morning rise	14827 Sep 10 18:34	21° Mp 04° 08		minimum elong	14828 Aug 18 02:22	10° m 24'45	2°23'51
direct	14827 Sep 17 10:30	18° m 35'02		min. Earth dist.	14828 Aug 20 03:39	7° m 57'59	0.65108 AU
morning max el	14827 Oct 01 10:08	26° Mp 35'40	27°50'46	morning rise	14828 Aug 23 21:56	4° m)09'08	
	14827 Oct 04 14:46	0∘ ⊽		desc. node	14828 Aug 27 02:46	2° Mp 10'35	
	14827 Oct 25 08:50	0°M		direct	14828 Aug 30 09:26	1° Mp 31'14	05010151
morning set	14827 Nov 04 22:30	19°M48'43		morning max el	14828 Sep 12 20:52	9° m/25'32	27°10'51
asc. node	14827 Nov 04 13:29	19°M03'18			14828 Sep 29 00:32	0° Մ	
max. Earth dist.	14827 Nov 09 19:51 14827 Nov 10 00:08	0° ᡘ ¹ 0° ᡘ ¹22'56	1.32034 AU	morning set	14828 Oct 16 18:39 14828 Oct 18 09:17	3°ML05'37	
max. Earth dist.	1462/ NOV 10 00.06	0 X 22 30	1.32034 AU	asc. node	14828 Oct 21 10:12	9°ML06'21	
superior conj	14827 Nov 12 15:11	6° ∡ 104'23	1°09'27	max. Earth dist.	14828 Oct 21 10:12 14828 Oct 22 17:30	11°M45'19	1.33333 AU
minimum elong	14827 Nov 12 12:53	5° × 51'50	1°10'00	max. Earth dist.	14020 Oct 22 17.50	11 110-13 17	1.55555710
evening rise	14827 Nov 19 10:36	20° ₹ 58'32	1 10 00	superior conj	14828 Oct 26 18:26	20°ML11'06	0°48'11
e vennig rise	14827 Nov 23 17:57	0°ਰ		minimum elong	14828 Oct 26 16:19	19°ML59'48	0°48'31
desc. node	14827 Dec 07 02:16	22° る 40'55			14828 Oct 31 08:19	0° ∡ ¹	
	14827 Dec 13 10:24	0° ≈		evening rise	14828 Nov 02 21:13	5° ∡ ¹26′05	
evening max el	14827 Dec 13 11:06	0° ≈ 01'41	23°48'27	C	14828 Nov 15 23:09	ರ∘ರ	
retrograde	14827 Dec 26 23:10	6° ≈ 43'57		desc. node	14828 Nov 22 23:23	9° る 02'53	
evening set	14827 Dec 31 16:47	5° ≈ 55'15		evening max el	14828 Nov 23 22:17	10° ට 00'50	22°06'05
min. Earth dist.	14828 Jan 06 22:20	2° ≈ 53'58	0.55353 AU	retrograde	14828 Dec 06 12:49	16° る 15'12	
inferior conj	14828 Jan 08 18:10	1° ≈ 48′50	-5°45'35	evening set	14828 Dec 09 22:21	15° る 49'38	
minimum elong	14828 Jan 08 23:55	1° ≈ 40′16	5°43'59	min. Earth dist.	14828 Dec 18 04:16	12° ろ 09'00	0.54525 AU
	14828 Jan 11 22:23	30°Rる		inferior conj	14828 Dec 18 12:56	11°る56'52	
morning rise	14828 Jan 17 08:45	27° る 53'29		minimum elong	14828 Dec 18 09:56	12° る 01'04	5°56'10
direct	14828 Jan 19 22:33	27° る 36'54		morning rise	14828 Dec 26 22:27	8° ろ 09'39	
	14828 Jan 27 05:22	0°≈ 2°≈ • 45!33	20012157	direct	14828 Dec 30 09:26	7°る43'06	21944125
morning max el	14828 Jan 30 14:45 14828 Jan 31 12:28	2°≈45'32 3°≈40'02	20°12'56	morning max el	14829 Jan 11 13:50 14829 Jan 17 09:48	13°る34'52 20°る22'01	21-44-35
asc. node	14828 Feb 16 16:44	3 ≈40 02 0°¥		asc. node	14829 Jan 23 13:09	20 3 22 01 0° ≈	
morning set	14828 Feb 17 20:13	0 X 2° ¥ 19'53		morning set	14829 Feb 01 06:09	0 ≈ 17°≈03'31	
morning set	14020100 17 20.15	2 11755		morning set	14829 Feb 07 08:43	0° ₩	
superior conj	14828 Feb 25 12:13	18° ₩ 01'01	1°00'24		11029 1 60 07 00.13	٠,٨	
minimum elong	14828 Feb 25 14:52	18°) 14'17	1°00'19	superior conj	14829 Feb 08 10:03	2°) 13′07	1°19'11
max. Earth dist.	14828 Mar 02 05:11	29° ₭ 10'30	1.36650 AU	minimum elong	14829 Feb 08 12:24	2° ¥ 25'23	1°19'29
	14828 Mar 02 15:39	0° Y		max. Earth dist.	14829 Feb 12 17:04	11°) €02'25	1.34647 AU
desc. node	14828 Mar 04 03:21	2° Y 46'48		evening rise	14829 Feb 16 22:01	19° ¥ 16'42	
evening rise	14828 Mar 05 23:48	6° Ƴ 10′23		desc. node	14829 Feb 18 23:52	23° ¥ 11′00	
	14828 Mar 20 07:47	0° 8			14829 Feb 22 18:29	0° Y	
evening max el	14828 Apr 10 11:25	27° 8 18'53	25°45'51		14829 Mar 14 09:35	0° 8	
	14828 Apr 13 10:12	0 ° Π		evening max el	14829 Mar 24 01:18	11° 8 04'17	26°45'50
retrograde	14828 Apr 22 23:28	4° Ⅱ 30'49		retrograde	14829 Apr 06 06:01	18° 8 30'03	
asc. node	14828 Apr 28 09:00	2° Ⅱ 31'59		evening set	14829 Apr 12 16:35	15° 8 57'55	
evening set	14828 Apr 29 00:17 14828 May 01 02:19	2°Ⅱ01'36 30°R ႘		asc. node min. Earth dist.	14829 Apr 15 06:23 14829 Apr 16 16:45	13° 8 33'09	0.66218 AU
min. Earth dist.	14828 May 03 06:01	27° 8 26'54	0.67577 AU	inferior conj	14829 Apr 18 17:50	9° 8 33'08	1°03'51
inferior conj	14828 May 04 18:28	25° 8 31'11	1°51'08	minimum elong	14829 Apr 18 16:17	9° 8 37'41	1°02'43
minimum elong	14828 May 04 16:20	25° 8 37'57		morning rise	14829 Apr 24 17:12	3° 8 55'32	1 02 43
morning rise	14828 May 10 08:59	19° 8 41'52	- 1, 1-	direct	14829 Apr 27 16:22	3° 8 06'55	
direct	14828 May 13 18:17	18° 8 36'11		morning max el	14829 May 04 01:22	6° 8 27'59	18°13'45
morning max el	14828 May 20 12:15	22° 8 14'45	18°53'07	desc. node	14829 May 18 01:54	26° 8 05'01	
	14828 May 26 22:17	$\Pi^{\circ}0$			14829 May 20 12:50	$\Pi^{\circ}0$	
desc. node	14828 May 31 05:04	6° Ⅱ 09'00		morning set	14829 May 23 11:38	4° Ⅱ 43'19	
greatest brilliancy	14828 Jun 03 01:08	10° Ⅱ 24'29	-0.8m				
morning set	14828 Jun 12 03:46	24° Ⅱ 26′21		superior conj	14829 Jun 07 18:53	28° Ⅱ 56′29	
	14828 Jun 15 17:44	0ංම		minimum elong	14829 Jun 07 11:33	28° Ⅲ 27'50	2°03'11
max. Earth dist.	14828 Jun 26 12:52	16°9548'47	1.45708 AU	_	14829 Jun 08 11:08	0°9	
	14000 7 20 10 1	100	2012152	max. Earth dist.	14829 Jun 09 09:13	1°526'13	1.45913 AU
superior conj	14828 Jun 28 10:24	19°546'59		evening rise	14829 Jun 23 20:22	23°956'41	
minimum elong	14828 Jun 28 10:04	19°545'41	Z-14·31	grantant beilli	14829 Jun 27 17:54	0° Ω 10° Ω 56'42	0.7
evening rise	14828 Jul 04 21:58 14828 Jul 13 14:33	0° Ω 13° Ω 54'40		greatest brilliancy asc. node	14829 Jul 04 20:42 14829 Jul 12 04:57	10°Ω56'42 21°Ω31'43	-0.7m
evening rise	14020 Jul 13 14.33	13 66 34 40		asc. noue	14047 Jul 14 U4.3/	41 063143	

evening max el	14829 Jul 17 02:48	27° Ω 19'47	19°05'36	max. Earth dist.	14830 May 23 05:15	16° Ⅱ 01'59	1.45366 AU
	14829 Jul 20 10:03	0° m)			14830 Jun 01 04:49	0 \circ	
retrograde	14829 Jul 23 23:17	1° Mp 06'36		evening rise	14830 Jun 03 09:41	3° © 22'44	
evening set	14829 Jul 27 11:10	29° Ω 55'50		greatest brilliancy	14830 Jun 18 06:35	25° © 40'14	-0.6m
	14829 Jul 27 08:38	30°R€	2052112		14830 Jun 21 07:34	0° N	
inferior conj	14829 Aug 01 22:23	24° Ω 08'23	2°53'13	asc. node	14830 Jun 29 01:47	9° Ω 52'40	10050144
minimum elong	14829 Aug 02 00:02	24° Ω 03'04	2°52'17	evening max el	14830 Jun 30 07:35	11°Ω10'33	19°59'44
min. Earth dist.	14829 Aug 03 11:37	22°Ω08'43 17°Ω42'52	0.66772 AU	retrograde	14830 Jul 07 21:58 14830 Jul 11 19:44	15° Ω 29'18 14° Ω 01'13	
morning rise	14829 Aug 07 12:14			evening set	14830 Jul 11 19:44 14830 Jul 17 02:48	8°Ω00'57	2907125
direct desc. node	14829 Aug 13 15:17 14829 Aug 14 00:14	15° Ω 05'26 15° Ω 05'57		inferior conj minimum elong	14830 Jul 17 02:48 14830 Jul 17 03:31	8 8 000 37 7° Ω 58'32	3°07'35 3°06'41
morning max el	14829 Aug 26 08:10	22° Ω 39'25	26°05'07	min. Earth dist.	14830 Jul 17 03.31 14830 Jul 18 01:54	6°Ω42'46	0.68000 AU
morning max ci	14829 Sep 01 19:37	0° m)	20 03 07	morning rise	14830 Jul 22 10:55	1°Ω37'03	0.08000 AC
	14829 Sep 22 07:28	0∘ ⊽		morning risc	14830 Jul 22 10:33	30°RS	
morning set	14829 Oct 01 07:06	0 — 15° ≏ 46'29		direct	14830 Jul 28 03:06	29° © 07'52	
max. Earth dist.	14829 Oct 05 01:19	22° £ 53'09	1.35145 AU	desc. node	14830 Jul 31 21:39	0°Ω02'20	
asc. node	14829 Oct 08 06:49	29° £ 14'19	1.501.0110	dese. node	14830 Jul 31 19:35	0° Ω	
	14829 Oct 08 15:56	0°M		morning max el	14830 Aug 08 18:58	6°Ω07'02	24°42'49
					14830 Aug 27 07:47	0° m)	
superior conj	14829 Oct 10 14:17	3°M54'40	0°21'17	morning set	14830 Sep 13 11:50	27° m 41'10	
minimum elong	14829 Oct 10 13:06	3°M48'35	0°21'31	· ·	14830 Sep 14 19:15	0∘ <u>⊽</u>	
evening rise	14829 Oct 18 05:37	19° M 46'31		max. Earth dist.	14830 Sep 17 01:32	4° ≙ 04'18	1.37347 AU
C	14829 Oct 23 07:11	0° ∡ ¹			•		
evening max el	14829 Nov 05 19:11	20° х 25'46	20°35'22	superior conj	14830 Sep 23 23:29	17° ≏ 06'30	-0°10'37
desc. node	14829 Nov 09 20:36	23° ∡ ¹44'39		minimum elong	14830 Sep 24 00:10	17° ≏ 09'50	0°10'19
retrograde	14829 Nov 16 23:19	25° ₹ ′59′10		behind sun begin	14830 Sep 23 19:00	16° ≏ 44'42	
evening set	14829 Nov 19 07:16	25° ∡ ¹45'46		behind sun end	14830 Sep 24 05:20	17° ≏ 35'01	
inferior conj	14829 Nov 28 04:39	21° х 51'29	-5°08'28	asc. node	14830 Sep 25 03:22	19° ≏ 22'55	
minimum elong	14829 Nov 27 19:04	22° ₹ 05'21	5°05'19		14830 Sep 30 11:06	0° M	
min. Earth dist.	14829 Nov 29 10:06	21° ₹ ′08'51	0.54612 AU	evening rise	14830 Oct 02 09:26	3°M53'01	
morning rise	14829 Dec 06 06:42	17° ∡ 754'14			14830 Oct 17 18:13	0° ∡ ¹	
direct	14829 Dec 10 17:45	17° ∡ 11'35		evening max el	14830 Oct 19 06:24	1° ∡ ³37'25	19°24'58
morning max el	14829 Dec 24 01:41	23° ∡ ¹41'54	23°31'45	desc. node	14830 Oct 27 17:56	6° х 20′39	
	14829 Dec 29 16:46	0°ಕ		retrograde	14830 Oct 28 19:19	6° х 24′03	
asc. node	14830 Jan 04 07:02	8° る 05'48		evening set	14830 Oct 30 16:34	6° ⋌ 13'40	
	14830 Jan 15 21:28	0° ≈		inferior conj	14830 Nov 08 07:40	2° ⋌ 06'19	
morning set	14830 Jan 16 17:54	1° ≈ 48'41		minimum elong	14830 Nov 07 22:50	2° × ⁷ 20'40	
	14020 1 22 14 41	1.60 4010.5	1021124	min. Earth dist.	14830 Nov 10 19:25	0° х ⁷ 29′26	0.55610 AU
superior conj	14830 Jan 23 14:41 14830 Jan 23 16:13	16°≈42'05	1°31'24		14830 Nov 11 14:16	30°RM 27°M 20147	
minimum elong		16°≈50'25 22°≈55'44	1°32'03 1.33026 AU	morning rise direct	14830 Nov 16 02:55	27°M39'47 26°M35'08	
max. Earth dist.	14830 Jan 26 12:30 14830 Jan 29 22:18	22 ≈ 33 44 0° ∺	1.33020 AU	direct	14830 Nov 21 11:17 14830 Dec 01 01:15	20 IIL33 08 0° ⊼ ¹	
evening rise	14830 Jan 31 08:42	2° ∺ 53'05		morning max el	14830 Dec 01 01:13	3° ∡ ¹37'50	25°10'07
desc. node	14830 Feb 05 20:27	13° ¥ 23'55		asc. node	14830 Dec 03 11:00 14830 Dec 22 04:10	26° ₹ 37 36	23 1907
dese. Hode	14830 Feb 15 14:49	0° Υ		use. Houe	14830 Dec 24 01:18	0°る	
evening max el	14830 Mar 06 14:30	24° Υ 31'15	27°24'15	morning set	14831 Jan 01 05:38	16° る 29'28	
e venning man er	14830 Mar 13 14:54	0°8	2, 2.10	morning sec	14831 Jan 07 09:07	0° ≈	
retrograde	14830 Mar 20 06:06	2° 8 00'53					
· ·	14830 Mar 26 08:00	30° ₹ Υ		superior conj	14831 Jan 07 23:38	1° ≈ 20'17	1°37'19
evening set	14830 Mar 26 23:55	29° Y '32'00		minimum elong	14831 Jan 08 00:08	1° ≈ 23'04	1°38'12
min. Earth dist.	14830 Mar 30 19:53	26° Ƴ 03'27	0.64480 AU	max. Earth dist.	14831 Jan 09 14:48	4° ≈ 56′01	1.31869 AU
inferior conj	14830 Apr 02 09:02	23° Y 19'45	0°04'09	evening rise	14831 Jan 15 04:46	16° ≈ 51'30	
minimum elong	14830 Apr 02 08:55	23° Y ′20'04	0°03'48		14831 Jan 21 21:23	0° ∀	
transit middle	14830 Apr 02 08:55	23° Y ′20'04	0°03'48	desc. node	14831 Jan 23 17:06	3° ¥ 19'45	
transit begin	14830 Apr 02 05:55	23° Y 28'08			14831 Feb 10 06:21	0° Y	
transit end	14830 Apr 02 11:54	23° Y 12'01		evening max el	14831 Feb 17 01:12	7° Y 27'36	27°34'29
asc. node	14830 Apr 02 03:49	23° Y '33'48		retrograde	14831 Mar 02 23:00	14° Y ′53'46	
morning rise	14830 Apr 08 19:57	17° Y ′56′12		evening set	14831 Mar 09 19:44	12° Y 35'37	
direct	14830 Apr 11 10:05	17° Y ′21'46		min. Earth dist.	14831 Mar 13 13:50	9° Υ 33'39	0.62437 AU
morning max el	14830 Apr 17 18:14	20° Y 37'36	17°51'27	inferior conj	14831 Mar 16 13:01	6° Y 43'37	
	14830 Apr 24 23:27	0°8		minimum elong	14831 Mar 16 15:20	6° Y 38'03	1°07'10
morning set	14830 May 04 23:17	16° 8 20'19		asc. node	14831 Mar 20 01:16	3° Y 37'06	
desc. node	14830 May 04 22:37	16° 8 17'31		morning rise	14831 Mar 23 13:49	1° Υ 36'43	
	14830 May 13 05:12	Π $^{\circ}$ 0		direct	14831 Mar 25 20:20	1°Υ13'02	17046142
annoni	14020 M 10 12 20	00Т20120	1024!14	morning max el	14831 Apr 01 11:54	4° Υ 35'11 29° Υ 05'17	17°46'43
superior conj minimum elong	14830 May 18 13:28 14830 May 18 04:49	8°П38'28 8°П03'52		morning set	14831 Apr 17 10:58 14831 Apr 17 23:26	0° 8	
minimum etong	14030 Way 10 04.49	о щиз 32	1 3414		14031 Apr 1/ 23.20	υ Ο	

desc. node	14831 Apr 21 19:17	6° 8 41'37			14832 Apr 09 05:33	0° 8	
superior conj	14831 Apr 29 05:39	19° 8 22'05	-0°56'48	superior conj	14832 Apr 09 21:33	1° 8 10'32	-0°18'02
minimum elong	14831 Apr 29 00:12	18° 8 59'19		minimum elong	14832 Apr 09 20:00	1° 8 03'43	0°18'12
8	14831 May 05 17:25	0°П		max. Earth dist.	14832 Apr 17 10:51	14° 8 05'01	1.42351 AU
max. Earth dist.	14831 May 05 22:13	0° Ⅱ 19'18	1.44133 AU	evening rise	14832 Apr 23 00:22	23° 8 07'32	
evening rise	14831 May 13 22:09	12° Ⅱ 54'36		8	14832 Apr 27 09:30	0°II	
C	14831 May 25 06:22	0° ©			14832 May 18 08:01	0°©	
evening max el	14831 Jun 13 06:24	25°502'03	21°07'22	evening max el	14832 May 26 00:10	8°954'00	22°24'34
asc. node	14831 Jun 15 22:44	27° © 27'02		asc. node	14832 Jun 01 19:47	13° © 59'15	
	14831 Jun 21 07:11	$0^{\circ}\Omega$		retrograde	14832 Jun 04 18:25	14°537'42	
retrograde	14831 Jun 21 20:56	0° Ω 01'41		evening set	14832 Jun 09 13:58	12°536'48	
C	14831 Jun 22 10:30	30° ℝ ∽		inferior conj	14832 Jun 14 20:40	6°©15'58	3°01'20
evening set	14831 Jun 26 05:16	28°9516'36		minimum elong	14832 Jun 14 19:30	6°520'01	3°00'12
inferior conj	14831 Jul 01 10:56	22° © 05'06	3°09'53	min. Earth dist.	14832 Jun 14 17:09	6° © 28'13	0.69043 AU
minimum elong	14831 Jul 01 10:40	22° © 06'03	3°08'55	morning rise	14832 Jun 20 00:52	0° © 03'29	
min. Earth dist.	14831 Jul 01 20:30	21° © 31'50	0.68760 AU		14832 Jun 20 02:32	30°RⅡ	
morning rise	14831 Jul 06 15:49	15° © 45'52		direct	14832 Jun 24 16:32	28° Ⅱ 06'37	
direct	14831 Jul 11 19:54	13° © 30'51			14832 Jun 29 19:08	0ಂತಾ	
desc. node	14831 Jul 18 18:58	16° © 34'52		morning max el	14832 Jul 03 19:41	3°526'14	21°46'20
morning max el	14831 Jul 22 05:58	19° © 42'53	23°13'36	desc. node	14832 Jul 04 16:14	4° © 18'57	
	14831 Jul 30 23:29	$0^{\circ}\Omega$			14832 Jul 23 23:33	$0^{\circ}\Omega$	
	14831 Aug 20 11:31	0° m)		morning set	14832 Aug 05 01:59	18° Ω 34'43	
morning set	14831 Aug 25 19:08	8° m 39'52		max. Earth dist.	14832 Aug 11 02:13	28° Ω 19'11	1.42004 AU
max. Earth dist.	14831 Aug 29 23:47	15° Mp 46'19	1.39725 AU		14832 Aug 12 02:31	0° m	
superior conj	14831 Sep 06 18:14	29° m 38'17	-0°45'53	superior conj	14832 Aug 18 18:07	11° m 19'36	-1°21'29
minimum elong	14831 Sep 06 21:41	29° m 54'09	0°45'25	minimum elong	14832 Aug 19 00:29	11° m 47'23	1°21'02
	14831 Sep 06 22:57	0∘ ত		asc. node	14832 Aug 28 20:30	29° m 28'34	
asc. node	14831 Sep 11 23:56	9° ჲ 29'03			14832 Aug 29 03:21	0∘ ত	
evening rise	14831 Sep 16 05:49	17° ≏ 38'37		evening rise	14832 Aug 29 14:58	0° ≏ 53'18	
	14831 Sep 22 20:02	0° M		evening max el	14832 Sep 14 15:36	26° ≏ 19'12	18°09'41
evening max el	14831 Oct 02 06:34	13°M38'10	18°36'46	retrograde	14832 Sep 21 17:29	29° ჲ 56'02	
retrograde	14831 Oct 10 08:56	17° M 43'38		evening set	14832 Sep 23 22:17	29° ჲ 35'35	
evening set	14831 Oct 12 07:22	17°M30'24		desc. node	14832 Sep 30 12:45	25° ≏ 20'18	
desc. node	14831 Oct 14 15:18	16° ™ 42'04		inferior conj	14832 Oct 01 03:43	24° ≏ 47'30	-0°11'46
inferior conj	14831 Oct 20 06:52	13°M03'29	-1°48'22	minimum elong	14832 Oct 01 03:19	24° ≏ 48'23	0°11'17
minimum elong	14831 Oct 20 02:29	13°M11'46	1°45'59	transit middle	14832 Oct 01 03:19	24° ≏ 48'23	0°11'17
min. Earth dist.	14831 Oct 23 10:47	10°M40'38	0.57342 AU	transit begin	14832 Oct 01 00:53	24° ≏ 53'45	
morning rise	14831 Oct 27 18:12	7° ™ 59'47		transit end	14832 Oct 01 05:45	24° ≏ 43'00	
direct	14831 Nov 02 19:30	6°M28′34		min. Earth dist.	14832 Oct 04 10:02	21° £ 55'56	0.59504 AU
morning max el	14831 Nov 17 01:40	13°M56'37	26°47'29	morning rise	14832 Oct 08 05:01	19° 亞 10′00	
	14831 Nov 29 20:29	0° ∡		direct	14832 Oct 14 17:09	17° £ 12'19	
asc. node	14831 Dec 09 01:11	15° ∡ ³39'47		morning max el	14832 Oct 29 00:05	24° ≏ 58'34	27°42'42
	14831 Dec 16 04:07	0°る			14832 Nov 02 15:15	0°M₊	
morning set	14831 Dec 16 15:35	1° る 01'13			14832 Nov 22 05:24	0° ∡ ¹	
				asc. node	14832 Nov 24 22:08	5° ₹ 09'14	
superior conj	14831 Dec 23 10:47	16°る01'38	1°37'09	morning set	14832 Nov 29 21:58	15° ₹ 19'30	
minimum elong	14831 Dec 23 10:14	15°る58'30	1°38'07	max. Earth dist.	14832 Dec 06 05:37	29° ₹ 07'39	1.31111 AU
max. Earth dist.	14831 Dec 23 21:37	17°る02'06	1.31224 AU		14020 D 06 22 17	0074044	1021102
	14831 Dec 29 19:19	0° ≈		superior conj	14832 Dec 06 22:17	0°る40'44	
evening rise	14831 Dec 30 07:41	1°≈05'51		minimum elong	14832 Dec 06 20:48	0° る 32'25	1°31'57
desc. node	14832 Jan 10 13:49	22°≈51'23			14832 Dec 06 15:00	0°る	
avanie 1	14832 Jan 14 21:30	0°){ 10° ¥ 41!41	27011120	evening rise	14832 Dec 13 15:16	15° る 30'46	
evening max el	14832 Jan 30 07:11	19°) (41'41	27°11'20		14832 Dec 20 17:57	0°≈	
retrograde	14832 Feb 13 07:19	26°¥58'48		desc. node	14832 Dec 27 10:39	11° ≈ 49'45 0°) €	
evening set min. Earth dist.	14832 Feb 20 00:54 14832 Feb 23 21:39	24°) 59'25 22°) 15'46	0.60232 AU	avanina ma1	14833 Jan 10 03:19 14833 Jan 11 05:56	1° ₩ 04'58	26012125
inferior conj	14832 Feb 23 21:39 14832 Feb 27 02:15	19° H 35'14		evening max el retrograde	14833 Jan 11 05:56 14833 Jan 25 04:58	8° H 10'07	20 13 23
minimum elong	14832 Feb 27 02:15 14832 Feb 27 07:49	19° ₭ 35'14 19° ₭ 23'30		evening set	14833 Jan 25 04:58 14833 Jan 31 11:44	8° X 10'07 6° X 36'05	
morning rise	14832 Feb 27 07.49 14832 Mar 05 18:05	19 X 23 30 14° X 47'35	2 20 37	min. Earth dist.	14833 Feb 04 19:18		0.58066 AU
asc. node	14832 Mar 05 18:03	14 X 4/33 14° X 44'37		inferior conj	14833 Feb 04 19.18 14833 Feb 07 21:08	1° H 44'52	
direct	14832 Mar 05 22:44 14832 Mar 07 19:17	14° X 44'37 14° X 30'57		minimum elong	14833 Feb 07 21:08 14833 Feb 08 05:41	1° X 4432 1° X 29'17	
morning max el	14832 Mar 07 19:17 14832 Mar 15 02:54	14° X 30'5 / 18° X 10'20	18°00'26	minimum elong	14833 Feb 08 05:41 14833 Feb 10 08:45	1°π29'17 30°R≈	3 3431
morning max er	14832 Mar 13 02:34 14832 Mar 23 15:07	18° π 10'20' 0° Υ	10 00 20	morning rise	14833 Feb 10 08:45 14833 Feb 16 02:41	30°k≈ 27°≈18'31	
morning set	14832 Mar 30 16:33	12° Υ 39'39		direct	14833 Feb 16 02:47	27 ≈1831 27°≈05'12	
desc. node	14832 Mai 30 10.33	27° Υ 12'30		asc. node	14833 Feb 18 02.47 14833 Feb 20 20:11	27 ≈0312 27°≈31'06	
acse. Houe	11032 11p1 0/ 13.32	2, 11230		ase. Hode	11033100 20 20.11	2, 700100	

	14833 Feb 25 03:32	0°) €		morning max el	14834 Feb 09 09:10	13° ≈ 27'55	19°30'11
morning max el	14833 Feb 26 11:24	1°) 12′05	18°34'13	<i>3</i>	14834 Feb 20 18:01	0° ∀	
morning set	14833 Mar 14 10:43	26°) (47'42		morning set	14834 Feb 26 13:18	11°) (16′17	
	14833 Mar 16 02:34	0 ° Υ					
				superior conj	14834 Mar 06 14:49	27° ¥ 22'54	0°46'30
superior conj	14833 Mar 23 10:08		0°17'11	minimum elong	14834 Mar 06 17:15	27°) (34′50	0°46'16
minimum elong	14833 Mar 23 11:18	14°Υ00'39	0°16'50		14834 Mar 07 23:08	0°Υ 0°Ω10157	
desc. node max. Earth dist.	14833 Mar 25 12:26 14833 Mar 30 19:27	17° Υ 46'42 27° Υ 11'40	1.40209 AU	desc. node max. Earth dist.	14834 Mar 12 08:58 14834 Mar 13 01:56	8° Y 19'57 9° Y 38'00	1.37929 AU
max. Earth dist.	14833 Mar 30 19:27 14833 Apr 01 10:35	0° 8	1.40209 AU	evening rise	14834 Mar 16 18:44	9° γ 38'00 16° γ 16'21	1.37929 AU
evening rise	14833 Apr 03 23:13	4° 8 15'51		evening rise	14834 Mar 24 22:53	0°8	
e vening rise	14833 Apr 20 13:53	0°II			14834 Apr 15 02:36	0°II	
evening max el	14833 May 08 14:53	22° II 47'35	23°45'46	evening max el	14834 Apr 21 04:25	6° Ⅱ 41'41	25°04'27
retrograde	14833 May 19 13:02	29° Ⅱ 12'19		retrograde	14834 May 03 03:49	13° Ⅱ 39'30	
asc. node	14833 May 19 16:56	29° Ⅱ 12'12		asc. node	14834 May 06 14:12	12° Ⅱ 49'34	
evening set	14833 May 24 20:15	26° Ⅱ 57'34		evening set	14834 May 08 22:33	11° Ⅱ 14′06	
min. Earth dist.	14833 May 29 13:43	21° Ⅱ 26′00	0.68848 AU	min. Earth dist.	14834 May 13 08:03	6° Ⅱ 19'11	0.68175 AU
inferior conj	14833 May 30 06:04	20° Ⅲ 30′03	2°42'26	inferior conj	14834 May 14 13:15	4° Ⅱ 43′26	
minimum elong	14833 May 30 04:14	20° ∏ 36′20	2°41'06	minimum elong	14834 May 14 11:05	4° Ⅱ 50'31	2°11'35
morning rise direct	14833 Jun 04 12:13 14833 Jun 08 15:35	14° П 25'43 12° П 48'58		marning rica	14834 May 18 13:21	30°R と 28° と 48'30	
morning max el	14833 Jun 16 15:12	12 П 48 38 17° П 20'19	20°28'02	morning rise direct	14834 May 19 23:57 14834 May 23 15:37	28 8 48 30 27° 8 31'55	
desc. node	14833 Jun 21 13:24	22° I 55'52	20 28 02	direct	14834 May 29 04:09	27 O 31 33	
dese. Hode	14833 Jun 26 21:00	0°95		morning max el	14834 May 30 18:11	1° Ⅱ 25'53	19°23'16
morning set	14833 Jul 15 11:38	27° © 36'05		desc. node	14834 Jun 08 10:26	12° Ⅱ 11'38	
C	14833 Jul 17 00:48	$0^{\circ}\Omega$		greatest brilliancy	14834 Jun 12 09:58	17° Ⅱ 56'51	-0.7m
max. Earth dist.	14833 Jul 24 11:43	11° Ω 45′33	1.43916 AU		14834 Jun 20 10:02	0 \circ \mathfrak{S}	
				morning set	14834 Jun 24 14:46	6°\$25'46	
superior conj	14833 Jul 30 19:14	22° Ω 02′15		max. Earth dist.	14834 Jul 07 03:20	25° © 52'51	1.45249 AU
minimum elong	14833 Jul 31 02:44	22° Ω 33'17	1°52'18		14834 Jul 09 17:58	0 \circ Ω	
	14833 Aug 04 13:20	0° my			14024 X 1 10 21 17	10 0 10101	2011106
evening rise	14833 Aug 12 08:15	13° Mp 25'21		superior conj minimum elong	14834 Jul 10 21:17 14834 Jul 11 01:13	1° Ω 48'21 2° Ω 03'59	
asc. node	14833 Aug 15 17:05 14833 Aug 22 02:15	19° M 17'19 0° ⊆		evening rise	14834 Jul 25 04:31	$25^{\circ}\Omega03'00$	2 11 33
evening max el	14833 Aug 29 05:14	ი_ 9° _ 29'33	18°02'09	evening rise	14834 Jul 28 04:10	0° m)	
retrograde	14833 Sep 04 17:30	12° ♀ 52'02	10 02 07	asc. node	14834 Aug 02 13:44	8° mp 50'53	
evening set	14833 Sep 07 06:17	12° ≏ 20'43		evening max el	14834 Aug 12 19:49	23° m/00'25	18°13'01
inferior conj	14833 Sep 13 19:26	7° ≙ 13'03	1°05'04	retrograde	14834 Aug 19 04:26	26° m 22'15	
minimum elong	14833 Sep 13 21:13	7° ഫ 08'33	1°04'28	evening set	14834 Aug 22 01:44	25° m 37'14	
min. Earth dist.	14833 Sep 16 18:45	4° ≙ 13'45	0.61795 AU	inferior conj	14834 Aug 28 02:00	20° Mp 12'36	2°01'07
desc. node	14833 Sep 17 10:17	3° Ω 36'52		minimum elong	14834 Aug 28 04:25	20° Mp 05'46	2°00'08
morning rise	14833 Sep 20 09:34	1° ≏ 10'26		min. Earth dist.	14834 Aug 30 13:24	17° m) 24'56	0.63969 AU
J: 4	14833 Sep 22 08:50	30°RM)		morning rise desc. node	14834 Sep 03 05:22	13° My 54'37 13° My 07'09	
direct	14833 Sep 27 01:44 14833 Oct 02 01:22	28° Mp 50'57 0° <u>₽</u>		direct	14834 Sep 04 07:49 14834 Sep 09 19:47	13 my 07 09 11° my 20'57	
morning max el	14833 Oct 11 05:25	ა <u> </u>	27°58'55	morning max el	14834 Sep 23 15:15	19° m) 20'32	27°37'43
morning man er	14833 Oct 28 20:53	0°M	2, 5000	morning man er	14834 Oct 02 17:15	0∘ ⊽	27 37 13
asc. node	14833 Nov 11 18:58	24°M56'00			14834 Oct 21 20:35	0° M	
morning set	14833 Nov 13 22:41	29°M18'29		morning set	14834 Oct 28 15:24	12°M52'49	
	14833 Nov 14 06:44	0° ∡ ¹		asc. node	14834 Oct 29 15:43	14°M54'34	
max. Earth dist.	14833 Nov 19 10:55	11° ∡ °02′28	1.31540 AU	max. Earth dist.	14834 Nov 02 09:41	22°M38'22	1.32519 AU
	14022 34 00 00	150 311110	1010102		1402437 05 14 25	200 m 2011 4	1001100
superior conj	14833 Nov 21 08:09	15° 🗷 11'18	1°19'03	superior conj	14834 Nov 05 14:27		1°01'09
minimum elong evening rise	14833 Nov 21 06:02 14833 Nov 28 01:27	14° メ 59'32 0° る 00'14	1°19'44	minimum elong	14834 Nov 05 12:08 14834 Nov 05 20:19	29°IL15'45 0°⊀	1°01'36
evening rise	14833 Nov 28 01:24	00014 0°る		evening rise	14834 Nov 12 12:25	14° ∡ 129'44	
desc. node	14833 Dec 14 07:36	0° ≈ 01'37		evening rise	14834 Nov 20 04:09	0°ਰ	
	14833 Dec 14 07:10	0° ≈		desc. node	14834 Dec 01 04:39	17° る 09'56	
evening max el	14833 Dec 23 20:11	11° ≈ 36'45	24°46'21	evening max el	14834 Dec 05 05:43	21° ට 36'49	23°04'20
retrograde	14834 Jan 06 13:59	18° ≈ 28'42		retrograde	14834 Dec 18 10:20	28° ろ 09'30	
evening set	14834 Jan 12 00:22	17° ≈ 23′20		evening set	14834 Dec 22 14:35	27° ට 31'34	
min. Earth dist.	14834 Jan 17 08:03	14° ≈ 36′38	0.56193 AU	min. Earth dist.	14834 Dec 29 15:19	24° ප 15'47	
inferior conj	14834 Jan 19 19:04	13°≈03'21		inferior conj	14834 Dec 30 21:34	23°る32'25	
minimum elong	14834 Jan 20 03:34	12° ≈ 49'53	5°12'31	minimum elong	14834 Dec 30 23:59	23° る 28'57	5°56'41
morning rise	14834 Jan 28 08:58	8°≈58'22		morning rise	14835 Jan 08 10:51	19°る42'41	
direct asc. node	14834 Jan 30 15:08 14834 Feb 07 17:37	8°≈44'21 11°≈59'50		direct morning max el	14835 Jan 11 08:40 14835 Jan 22 16:51	19°る22'48 24°る49'27	20°49'23
asc. nouc	17.37 TCU U/ 1/.3/	11 ~3730		morning max ci	17055 Jan 22 10.51	27 0 492/	20 7723

1	14025 1 25 14 50	270750115		T' 4	14025 D 22 16 22	200 700120	
asc. node	14835 Jan 25 14:59	27° る 58'15		direct	14835 Dec 22 16:23	29° ₹ 08'39	
	14835 Jan 27 05:45	0° ≈			14835 Dec 27 09:55	0°る	
morning set	14835 Feb 10 21:13	25°≈56'26		morning max el	14836 Jan 04 10:26	5°る18'20	22°29'02
	14835 Feb 12 20:03	0° ∀		asc. node	14836 Jan 12 12:15	15° る 08'26	
					14836 Jan 21 02:45	0° ≈	
superior conj	14835 Feb 18 07:25	11° ∺ 21'58	1°09'11	morning set	14836 Jan 26 08:10	10° ≈ 41'32	
minimum elong	14835 Feb 18 10:01	11° ∺ 35'15	1°09'15				
max. Earth dist.	14835 Feb 23 10:19	21°) 35′51	1.35761 AU	superior conj	14836 Feb 02 08:30	25° ≈ 42'43	1°25'09
evening rise	14835 Feb 27 08:12	29° ₩ 01'20		minimum elong	14836 Feb 02 10:33	25° ≈ 53'35	1°25'36
desc. node	14835 Feb 27 05:28	28° ¥ 48'39			14836 Feb 04 09:18	0° ∀	
	14835 Feb 27 20:55	0° Υ		max. Earth dist.	14836 Feb 06 00:59	3°) €25'48	1.33900 AU
	14835 Mar 18 04:40	0°8		evening rise	14836 Feb 10 12:09	12°) 22'00	
evening max el	14835 Apr 03 17:55	20° 8 31'46	26°13'25	desc. node	14836 Feb 14 02:00	19°) 09'01	
•	14835 Apr 16 13:46	27° 8 51'29	20 13 23	desc. Hode	14836 Feb 20 05:19	0° Υ	
retrograde	*	_					
evening set	14835 Apr 22 19:04	25° 8 20'00			14836 Mar 12 07:49	0°8	25005112
asc. node	14835 Apr 23 11:33	24° 8 44'15		evening max el	14836 Mar 16 07:36	4° 8 11'05	27°05'12
min. Earth dist.	14835 Apr 26 22:09	21° 8 00'27	0.67051 AU	retrograde	14836 Mar 29 17:59	11° 8 40'27	
inferior conj	14835 Apr 28 16:07	18° 8 51'06	1°32'31	evening set	14836 Apr 05 07:54	9° 8 08'51	
minimum elong	14835 Apr 28 14:09	18° 8 57'10	1°31'10	asc. node	14836 Apr 09 08:56	5° 8 14'19	
morning rise	14835 May 04 10:05	13° 8 06'47		min. Earth dist.	14836 Apr 09 06:01	5° 8 22'24	0.65519 AU
direct	14835 May 07 14:53	12° 8 08'51		inferior conj	14836 Apr 11 12:23	2° 8 48'07	0°40'05
morning max el	14835 May 14 04:09	15° 8 38'28	18°34'18	minimum elong	14836 Apr 11 11:20	2° 8 51'07	0°39'14
	14835 May 25 01:03	$\Pi^{\circ}0$		•	14836 Apr 14 02:36	30° ŖƳ	
desc. node	14835 May 26 07:20	1° Ⅱ 55'19		morning rise	14836 Apr 17 16:22	27° Υ 16'11	
morning set	14835 Jun 04 07:55	15° Ⅱ 59'17		direct	14836 Apr 20 11:25	26° Y °34′08	
morning set	14835 Jun 13 06:40	0°95		direct	14836 Apr 26 22:34	0° 8	
	14633 Juli 13 00.40	0 39				29°Υ51'52	18°02'06
	14025 1 20 07 40	100050144	2011122	morning max el	14836 Apr 26 19:15		18-02-06
superior conj	14835 Jun 20 07:48	10°959'44		desc. node	14836 May 12 04:07	21° 8 59'25	
minimum elong	14835 Jun 20 04:05	10°5645'12		morning set	14836 May 15 03:46	26° 8 51'14	
max. Earth dist.	14835 Jun 19 22:16	10° © 22'31	1.45882 AU		14836 May 17 02:09	Π °0	
	14835 Jul 02 10:38	0 ° Ω					
evening rise	14835 Jul 06 00:02	5° Ω 37'53		superior conj	14836 May 29 18:46	20° Ⅱ 19'04	-1°52'15
greatest brilliancy	14835 Jul 13 22:04	18° Ω 09'16	-0.8m	minimum elong	14836 May 29 10:06	19° Ⅱ 44'55	1°52'31
asc. node	14835 Jul 20 10:26	28° Ω 02'46		max. Earth dist.	14836 Jun 01 18:16	24° Ⅱ 59'35	1.45770 AU
	14835 Jul 21 19:34	0° m ∕			14836 Jun 04 23:18	0 \circ \odot	
evening max el	14835 Jul 27 08:17	6° Mp 43'33	18°41'33	evening rise	14836 Jun 14 21:17	15° © 20'19	
retrograde	14835 Aug 02 22:11	10° m 17'49			14836 Jun 24 11:21	$\mathfrak{O}^{\circ}\mathfrak{O}$	
evening set	14835 Aug 06 04:30	9° m) 16'59		greatest brilliancy	14836 Jun 27 21:43	5° Ω 08'11	-0.7m
inferior conj	14835 Aug 11 19:32	3° m 37'30	2°38'44	asc. node	14836 Jul 06 07:14	16° Ω 45'27	
minimum elong	14835 Aug 11 21:36	3° m) 31'04	2°37'46	evening max el	14836 Jul 09 16:24	20° Ω 33'29	19°26'48
min. Earth dist.	14835 Aug 13 17:03		0.65860 AU	retrograde	14836 Jul 16 19:43	24° Ω 32'32	
IIIII. Darui dibi.	14835 Aug 14 19:08	30°R Ω	0.00000110	evening set	14836 Jul 20 11:40	23°Ω14'36	
morning rise	14835 Aug 17 13:41	27° Ω 12'43		inferior conj	14836 Jul 25 20:47		3°00'51
desc. node	=	$24^{\circ}\Omega 44'32$		3		17° Ω 17'34	2°59'57
	14835 Aug 22 05:19			minimum elong min. Earth dist.	14836 Jul 25 22:03		
direct	14835 Aug 23 21:52	24° Ω 33'50			14836 Jul 27 04:03	15° Ω 38'45	0.67356 AU
	14835 Sep 03 14:48	0° m)		morning rise	14836 Jul 31 07:53	10° Ω 56′22	
morning max el	14835 Sep 06 02:34	2°m/22'18	26°45'32	direct	14836 Aug 06 06:38	8° Ω 21'15	
	14835 Sep 26 22:17	0∘ ⊽		desc. node	14836 Aug 08 02:46	8° Ω 34'10	
morning set	14835 Oct 11 21:04	25° ≏ 55'04		morning max el	14836 Aug 18 13:31	15° Ω 42'27	25°31'22
	14835 Oct 13 23:52	0° M ₊			14836 Aug 30 08:39	0° m y	
max. Earth dist.	14835 Oct 15 22:46	3°M51'42	1.34040 AU		14836 Sep 18 19:19	0∘ ⊽	
asc. node	14835 Oct 16 12:22	4° ™ 59'54		morning set	14836 Sep 23 12:06	8° ≏ 17'12	
				max. Earth dist.	14836 Sep 27 02:20	14° ♀ 55'21	1.36043 AU
superior conj	14835 Oct 20 14:49	13°M25'13	0°37'26	asc. node	14836 Oct 02 08:58	25° ≏ 08'28	
minimum elong	14835 Oct 20 12:59	13° ™ 15'37	0°37'42				
evening rise	14835 Oct 27 22:17	28°M54'05		superior conj	14836 Oct 03 06:33	26° ≏ 56'04	0°08'17
	14835 Oct 28 10:50	0° ∡ ¹		minimum elong	14836 Oct 03 06:02	26° ♀ 53'29	0°08'32
	14835 Nov 15 04:54	%ਰ		behind sun begin	14836 Oct 03 00:40	26° ⊆ 26'39	5 00 52
evening max el	14835 Nov 16 19:55	0 8 1° 8 42'16	21°25'26	behind sun end	14836 Oct 03 00.40	20 ⊆ 20 39 27° ⊆ 20'23	
•		2°る52'14	41 4J 4U	ociniiu suil ellu		0°M	
desc. node	14835 Nov 18 01:48				14836 Oct 04 19:04		
retrograde	14835 Nov 28 21:36	7°る41'05		evening rise	14836 Oct 11 05:01	13°M08'46	
evening set	14835 Dec 01 18:19	7°る22'15			14836 Oct 19 23:05	0° √	
inferior conj	14835 Dec 10 13:10	3° ප 30'26		evening max el	14836 Oct 28 22:52	12° ∡ ¹25'50	20°02'46
minimum elong	14835 Dec 10 06:34	3°₹39'43		desc. node	14836 Nov 03 23:04	16° ∡ °42'51	
min. Earth dist.	14835 Dec 10 21:05		0.54437 AU	retrograde	14836 Nov 08 10:07	17° ∡ ³38'45	
	14835 Dec 17 18:41	30°R. ✓		evening set	14836 Nov 10 11:43	17° ∡ °27'31	
morning rise	14835 Dec 18 19:23	29° ∡ ⁴41'12		inferior conj	14836 Nov 19 08:03	13° ∡ °29′22	-4°32'29

minimum elong	14836 Nov 18 21:58	13° ∡ ¹44'33	4°28'40	min. Earth dist.	14837 Nov 02 15:27	22°M.02'40	0.56275 AU
min. Earth dist.	14836 Nov 21 04:11	12° × 22'53	0.54929 AU	morning rise	14837 Nov 07 11:14	19°M18'46	0.30273 AO
morning rise	14836 Nov 27 07:08	9° 🖈 21'25	0.54727710	direct	14837 Nov 13 03:41	18°ML03'12	
direct	14836 Dec 02 03:59	8° ₹ 29'45		morning max el	14837 Nov 27 06:40	25°M16'38	26°00'10
morning max el	14836 Dec 15 19:52	15° × 15'09	24°18'36	morning man er	14837 Dec 01 16:30	0° ₹	20 00 10
morning man er	14836 Dec 27 10:03	0°중	2. 1030	asc. node	14837 Dec 16 06:31	21° x 58'59	
asc. node	14836 Dec 29 09:26	3° る 13'12		450. 11040	14837 Dec 20 11:18	0°ਰ	
morning set	14837 Jan 09 20:07	25° る 25'02		morning set	14837 Dec 25 07:19	10°る02'28	
	14837 Jan 11 22:52	0°≈					
				superior conj	14838 Jan 01 01:21	24° る 56'05	1°37'58
superior conj	14837 Jan 16 15:13	10° ≈ 16′09	1°34'40	minimum elong	14838 Jan 01 01:23	24° る 56'20	1°38'55
minimum elong	14837 Jan 16 16:20	10° ≈ 22'15	1°35'26	max. Earth dist.	14838 Jan 02 04:18	27° る 25'46	1.31532 AU
max. Earth dist.	14837 Jan 18 23:29	15° ≈ 21'26	1.32469 AU		14838 Jan 03 08:14	0° ≈	
evening rise	14837 Jan 24 03:10	26°≈08'42		evening rise	14838 Jan 08 02:28	10° ≈ 14'37	
<i>8</i> 11	14837 Jan 26 01:27	0° ∀		desc. node	14838 Jan 17 19:18	29° ≈ 02'04	
desc. node	14837 Jan 30 22:36	9°) 15′27			14838 Jan 18 08:26	0°) €	
	14837 Feb 12 14:32	$0^{\circ}\mathbf{Y}$		evening max el	14838 Feb 09 05:25	0° Y ′07'36	27°28'58
evening max el	14837 Feb 26 20:13	17° Ƴ 27'32	27°32'33	· ·	14838 Feb 09 02:14	0° Υ	
retrograde	14837 Mar 12 15:12	24° Y 56'15		retrograde	14838 Feb 23 04:17	7° Y ′29'27	
evening set	14837 Mar 19 10:40	22° Y 31'20		evening set	14838 Mar 02 00:37	5° Ƴ 18'31	
min. Earth dist.	14837 Mar 23 05:36	19° Y 14'34	0.63641 AU	min. Earth dist.	14838 Mar 05 19:15	2° Y 25'35	0.61515 AU
inferior conj	14837 Mar 25 23:15	16° Ƴ 26'36	-0°24'58		14838 Mar 08 11:42	30°₽)	
minimum elong	14837 Mar 26 00:02	16° Ƴ 24'34	0°24'49	inferior conj	14838 Mar 08 21:25	29°) 37'49	-1°42'11
asc. node	14837 Mar 27 06:22	15° Ƴ 08'01		minimum elong	14838 Mar 09 01:03	29° ¥ 29'34	1°40'36
morning rise	14837 Apr 01 15:48	11° Y ′09'26		asc. node	14838 Mar 14 03:49	25°) 31′58	
direct	14837 Apr 04 02:28	10° Ƴ 39'59		morning rise	14838 Mar 16 04:32	24°) (38'34	
morning max el	14837 Apr 10 12:47	13° Y 57'22	17°47'10	direct	14838 Mar 18 08:36	24°) 18'11	
C	14837 Apr 21 19:11	0°8		morning max el	14838 Mar 25 05:42	27°) €46′06	17°50'12
morning set	14837 Apr 27 02:26	8° 8 59'49		Č	14838 Mar 27 06:34	0° Y	
desc. node	14837 Apr 29 00:48	12° 8 17'28		morning set	14838 Apr 09 22:27	22° Y ′08'02	
	1			Č	14838 Apr 14 08:07	0°8	
superior conj	14837 May 09 21:43	0° Ⅲ 25′12	-1°18'57	desc. node	14838 Apr 15 21:26	2° 8 44'51	
minimum elong	14837 May 09 14:07	29° 8 54'17	1°18'49				
	14837 May 09 15:32	$\Pi^{\circ}0$		superior conj	14838 Apr 21 00:08	11° 8 36'42	-0°40'10
max. Earth dist.	14837 May 15 13:20	9°Ⅱ29'39	1.44929 AU	minimum elong	14838 Apr 20 20:24	11° 8 20'49	0°40'10
evening rise	14837 May 25 08:11	24° Ⅱ 43'51		max. Earth dist.	14838 Apr 28 05:10	23° 8 37'02	1.43442 AU
_	14837 May 28 19:12	0°€			14838 May 02 04:31	$\Pi^{\circ}0$	
	14837 Jun 18 20:09	$0^{\circ}\Omega$		evening rise	14838 May 05 01:11	4° Ⅱ 30′12	
evening max el	14837 Jun 22 18:46	4° Ω 25'16	20°27'05	•	14838 May 22 03:49	0 \circ \odot	
asc. node	14837 Jun 23 04:08	4° Ω 48'21		evening max el	14838 Jun 05 15:17	18° © 16'52	21°39'17
retrograde	14837 Jun 30 18:38	9° Ω 00'02		asc. node	14838 Jun 10 01:08	21° 5 58'19	
evening set	14837 Jul 04 20:53	7° Ω 24'36		retrograde	14838 Jun 14 17:07	23° © 34'46	
inferior conj	14837 Jul 10 03:04	1° Ω 19'36	3°09'54	evening set	14838 Jun 19 06:17	21° 5 642'31	
minimum elong	14837 Jul 10 03:21	1° Ω 18′36	3°08'59	inferior conj	14838 Jun 24 12:07	15° © 26'47	3°07'32
min. Earth dist.	14837 Jul 10 20:22	0° Ω 20'14	0.68392 AU	minimum elong	14838 Jun 24 11:27	15° © 29'06	3°06'30
	14837 Jul 11 02:18	30° ₹ 5		min. Earth dist.	14838 Jun 24 16:00	15° © 13'13	0.68947 AU
morning rise	14837 Jul 15 09:31	24°957'34		morning rise	14838 Jun 29 16:26	9° 5 0'27	
direct	14837 Jul 20 20:46	22° © 33'42		direct	14838 Jul 04 15:14	7° © 03'00	
desc. node	14837 Jul 26 00:08	24° © 14'37		desc. node	14838 Jul 12 21:27	11° 5 20'09	
morning max el	14837 Aug 01 00:02	29° © 13'15	24°05'02	morning max el	14838 Jul 14 11:54	12° © 52'13	22°35'44
	14837 Aug 01 18:12	$0^{\circ}\Omega$			14838 Jul 28 05:33	0 $^{\circ}\Omega$	
	14837 Aug 24 03:05	0° m p		morning set	14838 Aug 17 05:14	0° Mp 20′34	
morning set	14837 Sep 05 08:12	19° m 49'04			14838 Aug 17 00:11	O° m y	
max. Earth dist.	14837 Sep 09 01:01	26° Mp 16'57	1.38357 AU	max. Earth dist.	14838 Aug 22 01:03	8° m 21'25	1.40728 AU
	14837 Sep 11 02:42	0∘ ⊽					
				superior conj	14838 Aug 29 21:25	22° m 03'43	-1°01'13
superior conj	14837 Sep 16 10:10	9° ჲ 52'29	-0°25'19	minimum elong	14838 Aug 30 02:10	22° m 25'05	1°00'42
minimum elong	14837 Sep 16 11:56	10° ≙ 00'54	0°24'55		14838 Sep 03 05:34	0∘ ত	
asc. node	14837 Sep 19 05:33	15° ≙ 16'43		asc. node	14838 Sep 06 02:07	5° ≏ 20'25	
evening rise	14837 Sep 25 06:04	27° ≏ 07'35		evening rise	14838 Sep 08 22:13	10° ≙ 41'27	
	14837 Sep 26 17:08	0° M			14838 Sep 19 20:56	0° M	
evening max el	14837 Oct 11 16:04	23°M59'23	19°01'47	evening max el	14838 Sep 24 20:28	6° ™ 17'53	18°22'42
retrograde	14837 Oct 20 12:58	28°M26'59		retrograde	14838 Oct 02 11:12	10° M 09'51	
desc. node	14837 Oct 21 20:26	28°M21'29		evening set	14838 Oct 04 11:55	9°M54'04	
evening set	14837 Oct 22 09:57	28°M15'51		desc. node	14838 Oct 08 17:53	7°M52'01	
inferior conj	14837 Oct 30 19:03	24°M00'27	-2°49'41	inferior conj	14838 Oct 12 03:40	5° ™ 17'41	-1°05'15
minimum elong	14837 Oct 30 11:58	24°M12'42	2°46'15	minimum elong	14838 Oct 12 01:10	5° ™ 22'44	1°03'45
=				<u> </u>			

min. Earth dist.	14838 Oct 15 09:51	2° ™ 40′22	0.58225 AU	inferior conj	14839 Sep 24 09:03	17° ≏ 20'36	0°23'25
morning rise	14838 Oct 19 10:56	29° ≏ 58'37		minimum elong	14839 Sep 24 09:48	17° ≏ 18'51	0°23'20
	14838 Oct 19 09:54	30° Ŗ Ω		desc. node	14839 Sep 25 15:21	16° ≏ 09'04	
direct	14838 Oct 25 17:24	28° ≙ 16′11		min. Earth dist.	14839 Sep 27 13:18	14° ≏ 22'53	0.60480 AU
	14838 Nov 01 05:43	0° M		morning rise	14839 Oct 01 05:36	11° ≏ 30'48	
morning max el	14838 Nov 09 00:42	5° ™ 52'34	27°15'43	direct	14839 Oct 07 20:06	9° £ 22'55	
	14838 Nov 26 21:55	0° ₹		morning max el	14839 Oct 22 02:32		27°54'21
asc. node	14838 Dec 03 03:31	11° x 14'39		morning mair or	14839 Nov 01 16:55	0°M	2, 0.21
morning set	14838 Dec 09 15:58	24° 🗷 28'46			14839 Nov 19 13:53	0° ∡ 7	
morning set	14838 Dec 07 15:38	0°る		asc. node	14839 Nov 20 00:26	0° ∡ 751'59	
	14838 Dec 12 03.09	0.0					
	14020 5 46 10 51	007000	1005115	morning set	14839 Nov 23 20:12	8° ∡ ³39'13	1 21222 177
superior conj	14838 Dec 16 12:51	9°₹36'29	1°35'17	max. Earth dist.	14839 Nov 29 19:22	21° ∡ ³33'46	1.31222 AU
minimum elong	14838 Dec 16 11:52	9° ප 31'00	1°36'15			_	
max. Earth dist.	14838 Dec 16 12:10	9° る 32'41	1.31110 AU	superior conj	14839 Nov 30 23:53	24° ≯ 12'12	1°26'41
evening rise	14838 Dec 23 07:36	24° そ 33'23		minimum elong	14839 Nov 30 22:04	24° х 02'09	1°27'30
	14838 Dec 25 21:49	0° ≈			14839 Dec 03 14:16	0°₹	
desc. node	14839 Jan 04 16:06	18° ≈ 20'36		evening rise	14839 Dec 07 16:28	9° ⋜ 00'05	
	14839 Jan 12 05:03	0°) €			14839 Dec 18 07:44	0° ≈	
evening max el	14839 Jan 22 08:24	11° ¥ 59'27	26°50'43	desc. node	14839 Dec 22 12:59	7° ≈ 00'36	
retrograde	14839 Feb 05 08:09	19° ¥ 11'48		evening max el	14840 Jan 04 03:12	22° ≈ 58'31	25°39'15
evening set	14839 Feb 11 22:27	17°) 22'11		retrograde	14840 Jan 18 01:01	29° ≈ 59'18	
min. Earth dist.	14839 Feb 15 22:20	14° ¥ 43'20	0.59291 AU	evening set	14840 Jan 24 00:14	28°≈37'09	
inferior conj	14839 Feb 19 03:11	12°) 11'55		min. Earth dist.	14840 Jan 28 15:57	25°≈58'01	0.57206 AU
3							
minimum elong	14839 Feb 19 10:11	11°) ₹58'05	3°05'14	inferior conj	14840 Jan 31 13:14	23°≈59'34	
morning rise	14839 Feb 27 01:16	7°) €33'29		minimum elong	14840 Jan 31 22:21	23° ≈ 43'57	4°30'15
direct	14839 Mar 01 01:26	7°) 18'41		morning rise	14840 Feb 08 23:19	19° ≈ 42'52	
asc. node	14839 Mar 01 01:16	7° ∺ 18'41		direct	14840 Feb 11 00:42	19° ≈ 29'55	
morning max el	14839 Mar 08 18:27	11° ∺ 08'08	18°12'22	asc. node	14840 Feb 15 22:43	20° ≈ 48'45	
	14839 Mar 21 05:11	0 ° Υ		morning max el	14840 Feb 19 22:56	23° ≈ 51'36	18°55'20
morning set	14839 Mar 24 09:57	5° Ƴ 58'07			14840 Feb 24 23:20	0° ∀	
desc. node	14839 Apr 02 18:01	23° Y 17'33		morning set	14840 Mar 07 08:05	20°) 15′24	
	•				14840 Mar 12 07:11	0 ° Υ	
superior conj	14839 Apr 03 01:24	23° Y ′50'50	-0°02'31				
minimum elong	14839 Apr 03 01:10	23° Y '49'49	0°02'47	superior conj	14840 Mar 15 21:20	6° Ƴ 54'52	0°30'24
behind sun begin	14839 Apr 02 17:43	23° Y 16'15	0 02 .,	minimum elong	14840 Mar 15 23:12	7° Υ 03'44	0°30'04
behind sun end	14839 Apr 03 08:37	24° Y 23'18		desc. node	14840 Mar 19 14:33	13° Υ 51'31	0 3001
bennia sun ena	14839 Apr 06 12:37	0°8		max. Earth dist.	14840 Mar 22 22:48	19° Υ 53'28	1.39228 AU
Fault die	14839 Apr 10 16:04	7° と 07'13	1 41465 ATT		14840 Mar 26 19:33	26° Υ 36'34	1.39228 AU
max. Earth dist.	1	_	1.41465 AU	evening rise			
evening rise	14839 Apr 15 11:46	15° 8 05'47			14840 Mar 28 19:47	0°B	
	14839 Apr 25 00:25	0°II			14840 Apr 17 14:23	0°II	
	14839 May 17 06:01	0		evening max el	14840 Apr 30 21:14	16° Ⅱ 02'46	24°20'01
evening max el	14839 May 19 07:22	2° © 09'15	22°58'53	retrograde	14840 May 12 06:57	22° Ⅱ 43'36	
asc. node	14839 May 27 22:13	7° © 59'35		asc. node	14840 May 13 19:25	22° Ⅱ 33'34	
retrograde	14839 May 29 13:41	8° © 11'35		evening set	14840 May 17 18:59	20° Ⅲ 23'57	
evening set	14839 Jun 03 14:12	6° ॐ 04'15		min. Earth dist.	14840 May 22 08:51	15° Ⅱ 07'51	0.68610 AU
inferior conj	14839 Jun 08 21:58	29° Ⅲ 39'58	2°54'37	inferior conj	14840 May 23 06:40	13° Ⅱ 54′20	2°31'18
minimum elong	14839 Jun 08 20:29	29° Ⅱ 45′06	2°53'23	minimum elong	14840 May 23 04:38	14° Ⅱ 01′09	2°29'54
min. Earth dist.	14839 Jun 08 12:53	0° © 11'28	0.69017 AU	morning rise	14840 May 28 14:24	7° Ⅱ 53'38	
	14839 Jun 08 16:12	30°RⅡ		direct	14840 Jun 01 12:37	6° Ⅱ 25'37	
morning rise	14839 Jun 14 02:41	23° II 30'50		morning max el	14840 Jun 09 02:34	10° Ⅱ 40'05	19°58'39
direct	14839 Jun 18 12:58	21° I I42'40		desc. node	14840 Jun 15 15:44	18° Ⅲ 23'53	1, 203,
morning max el	14839 Jun 27 03:59	26° I I41'03	21°11'38	desc. node	14840 Jun 23 21:17	0°95	
desc. node		20 H41 03 29°H29'06	21 11 36			18°9540'31	
desc. node	14839 Jun 29 18:39			morning set	14840 Jul 06 06:41		
	14839 Jun 30 05:23	0°50			14840 Jul 13 13:44	0°Ω	
	4 40 0 0 Y 1 04 4 4 6 TO						1 44564 AT
	14839 Jul 21 16:58	$0^{\circ}\Omega$		max. Earth dist.	14840 Jul 16 18:12	5° Ω 01'46	1.44304710
morning set	14839 Jul 28 02:16	9° Ω 50'59					
morning set max. Earth dist.	14839 Jul 28 02:16 14839 Aug 04 06:28	9° Ω 50'59 21° Ω 18'20	1.42877 AU	superior conj	14840 Jul 22 03:03	13° Ω 38'37	-2°02'09
•	14839 Jul 28 02:16	9° Ω 50'59	1.42877 AU			13° Ω 38'37 14° Ω 05'43	-2°02'09
•	14839 Jul 28 02:16 14839 Aug 04 06:28	9° Ω 50'59 21° Ω 18'20	1.42877 AU	superior conj	14840 Jul 22 03:03	13° Ω 38'37 14° Ω 05'43 0° m	-2°02'09
•	14839 Jul 28 02:16 14839 Aug 04 06:28	9° Ω 50'59 21° Ω 18'20		superior conj	14840 Jul 22 03:03 14840 Jul 22 09:43	13° Ω 38'37 14° Ω 05'43	-2°02'09
max. Earth dist.	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33	9° Ω 50'59 21° Ω 18'20 0° m	-1°35'31	superior conj minimum elong	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50	13° Ω 38'37 14° Ω 05'43 0° m	-2°02'09
max. Earth dist.	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33 14839 Aug 11 12:01 14839 Aug 11 19:16	9° N 50'59 21° N 18'20 0° M 3° M 20'53	-1°35'31	superior conj minimum elong evening rise	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50 14840 Aug 04 10:17 14840 Aug 09 19:19	13° Q 38'37 14° Q 05'43 0° m 5° m 50'16	-2°02'09
max. Earth dist. superior conj minimum elong	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33 14839 Aug 11 12:01 14839 Aug 11 19:16 14839 Aug 23 01:20	9° \$\alpha 50'59 21° \$\alpha 18'20 0° \$\mathre{m}\$ 3° \$\mathre{m} 20'53 3° \$\mathre{m} 51'45 23° \$\mathre{m} 40'06	-1°35'31	superior conj minimum elong evening rise asc. node	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50 14840 Aug 04 10:17 14840 Aug 09 19:19 14840 Aug 19 15:37	13° Ω38'37 14° Ω05'43 0° mp 5° mp 50'16 14° mp 59'01	-2°02'09
max. Earth dist. superior conj minimum elong evening rise	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33 14839 Aug 11 12:01 14839 Aug 11 19:16 14839 Aug 23 01:20 14839 Aug 23 22:43	9° \$\land 50'59 21° \$\land 18'20 0° \$\land \text{m} 3° \$\land 20'53 3° \$\land 51'45 23° \$\land 40'06 25° \$\land 16'07	-1°35'31	superior conj minimum elong evening rise asc. node evening max el	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50 14840 Aug 04 10:17 14840 Aug 09 19:19 14840 Aug 19 15:37 14840 Aug 21 22:24	13° \$\Omega 38'37 14° \$\Omega 05'43 0° \$\mathre{m}\$ 50'16 14° \$\mathre{m}\$ 59'01 0° \$\Omega\$ 2° \$\Omega 32'46	-2°02'09 2°02'31
max. Earth dist. superior conj minimum elong evening rise asc. node	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33 14839 Aug 11 12:01 14839 Aug 11 19:16 14839 Aug 23 01:20 14839 Aug 23 22:43 14839 Aug 26 14:12	9° \$\alpha 50'59 21° \$\alpha 18'20 0° \$\mathref{m}\$ 3° \$\mathref{m}\$ 20'53 3° \$\mathref{m}\$ 51'45 23° \$\mathref{m}\$ 40'06 25° \$\mathref{m}\$ 16'07 0° \$\mathref{\Omega}\$	-1°35'31 1°35'12	superior conj minimum elong evening rise asc. node evening max el retrograde	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50 14840 Aug 04 10:17 14840 Aug 09 19:19 14840 Aug 19 15:37 14840 Aug 21 22:24 14840 Aug 28 07:58	13° \$\Omega 38'37 14° \$\Omega 05'43 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 50'16 14° \$\mathbf{m}\$ 59'01 0° \$\omega\$ 2° \$\Omega 32'46 5° \$\Omega 53'08	-2°02'09 2°02'31
max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33 14839 Aug 11 12:01 14839 Aug 11 19:16 14839 Aug 23 01:20 14839 Aug 23 22:43 14839 Aug 26 14:12 14839 Sep 08 07:55	9° \$\alpha 50'59 21° \$\alpha 18'20 0° \$\mathref{m}\$ 3° \$\mathref{m}\$ 20'53 3° \$\mathref{m}\$ 51'45 23° \$\mathref{m}\$ 40'06 25° \$\mathref{m}\$ 16'07 0° \$\mathref{\Omega}\$ 19° \$\mathref{\Omega}\$ 12'25	-1°35'31 1°35'12	superior conj minimum elong evening rise asc. node evening max el retrograde evening set	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50 14840 Aug 04 10:17 14840 Aug 09 19:19 14840 Aug 19 15:37 14840 Aug 21 22:24 14840 Aug 28 07:58 14840 Aug 31 00:18	13° \$\Omega 38'37 14° \$\Omega 05'43 0° \$\mathbf{m}\$ 5° \$\mathbf{m}\$ 50'16 14° \$\mathbf{m}\$ 59'01 0° \$\Omega\$ 2° \$\Omega 32'46 5° \$\Omega 53'08 5° \$\Omega 16'23	-2°02'09 2°02'31 18°04'34
max. Earth dist. superior conj minimum elong evening rise asc. node	14839 Jul 28 02:16 14839 Aug 04 06:28 14839 Aug 09 12:33 14839 Aug 11 12:01 14839 Aug 11 19:16 14839 Aug 23 01:20 14839 Aug 23 22:43 14839 Aug 26 14:12	9° \$\alpha 50'59 21° \$\alpha 18'20 0° \$\mathref{m}\$ 3° \$\mathref{m}\$ 20'53 3° \$\mathref{m}\$ 51'45 23° \$\mathref{m}\$ 40'06 25° \$\mathref{m}\$ 16'07 0° \$\mathref{\Omega}\$	-1°35'31 1°35'12	superior conj minimum elong evening rise asc. node evening max el retrograde	14840 Jul 22 03:03 14840 Jul 22 09:43 14840 Jul 31 23:50 14840 Aug 04 10:17 14840 Aug 09 19:19 14840 Aug 19 15:37 14840 Aug 21 22:24 14840 Aug 28 07:58	13° \$\Omega 38'37 14° \$\Omega 05'43 0° \$\mu\$ 5° \$\mu\$ 50'16 14° \$\mu\$ 59'01 0° \$\Omega\$ 2° \$\Omega 32'46 5° \$\Omega 53'08 5° \$\Omega 16'23 0° \$\Omega 01'31	-2°02'09 2°02'31

	14840 Sep 06 08:09	30°R, m ⊅		inferior conj	14841 Aug 20 19:13	13° m) 12'23	2°19'06
min. Earth dist.	14840 Sep 09 02:22	27° m) 04'43	0.62753 AU	minimum elong	14841 Aug 20 21:34	13° m) 05'26	2°18'07
desc. node	14840 Sep 11 12:51	24° m/ 46'59		min. Earth dist.	14841 Aug 23 00:50	10° m 34'47	0.64825 AU
morning rise	14840 Sep 12 17:01	23° m 51'15		morning rise	14841 Aug 26 18:28	6° m 50'55	
direct	14840 Sep 19 09:16	21°M)24'17		desc. node	14841 Aug 29 10:21	5° m 07'47	
morning max el	14840 Oct 03 10:00	29° m 24'20	27°54'00	direct	14841 Sep 02 06:51	4° m 13'54	
	14840 Oct 04 00:07	0∘ ⊽		morning max el	14841 Sep 15 20:30	12° m 09'41	27°18'44
	14840 Oct 25 16:07	0° M .			14841 Sep 30 03:06	0∘ ত	
asc. node	14840 Nov 05 21:15	20°M44'27			14841 Oct 18 05:11	0° M	
morning set	14840 Nov 06 17:51	22°M28'34		morning set	14841 Oct 21 06:14	5° M ₄49'53	
	14840 Nov 10 08:41	0° ∡ ¹		asc. node	14841 Oct 23 17:56	10°M46'18	
max. Earth dist.	14840 Nov 11 22:06	3° ∡ ′20′14	1.31885 AU	max. Earth dist.	14841 Oct 25 16:59	14°M46'13	1.33106 AU
superior conj	14840 Nov 14 08:31	8° ∡ '38'00	1°12'11	superior conj	14841 Oct 29 12:36	22° M 47'20	0°51'48
minimum elong	14840 Nov 14 06:15	8° ∡ ¹25'33	1°12'46	minimum elong	14841 Oct 29 10:24	22°M35'36	0°52'09
evening rise	14840 Nov 21 03:13	23° ∡ ′30′13			14841 Nov 01 21:04	0° ∡ ¹	
	14840 Nov 24 04:51	ರ°0		evening rise	14841 Nov 05 13:58	7° ∡ ¹58'17	
desc. node	14840 Dec 08 09:58	24° る 47'58			14841 Nov 17 00:25	ರ°ರ	
	14840 Dec 12 12:58	0° ≈		desc. node	14841 Nov 25 07:04	11° る 22'39	
evening max el	14840 Dec 15 14:49	3° ≈ 14'07	24°03'50	evening max el	14841 Nov 27 01:13	13° る 11'56	22°20'55
retrograde	14840 Dec 29 04:42	9° ≈ 58'58		retrograde	14841 Dec 09 19:44	19° る 31'26	
evening set	14841 Jan 03 02:55	9° ≈ 06'10		evening set	14841 Dec 13 10:08	19° る 02'57	
min. Earth dist.	14841 Jan 09 02:20	6° ≈ 09'16	0.55548 AU	inferior conj	14841 Dec 21 22:50	15° る 09'04	-5°59'27
inferior conj	14841 Jan 11 02:28	4° ≈ 56'43	-5°39'00	minimum elong	14841 Dec 21 21:16	15° る 11'16	5°58'24
minimum elong	14841 Jan 11 09:09	4° ≈ 46'36	5°37'09	min. Earth dist.	14841 Dec 21 08:20	15° る 29'25	0.54594 AU
morning rise	14841 Jan 19 17:10	0° ≈ 59'00		morning rise	14841 Dec 30 09:30	11° る 21'51	
direct	14841 Jan 22 04:41	0° ≈ 43'15		direct	14842 Jan 02 16:58	10° る 57'13	
morning max el	14841 Feb 01 15:02	5° ≈ 45'22	20°01'02	morning max el	14842 Jan 14 16:14		21°29'38
asc. node	14841 Feb 01 20:07	5° ≈ 57'46		asc. node	14842 Jan 19 17:26	22° ろ 28'30	
	14841 Feb 17 03:43	0° ∀			14842 Jan 24 18:03	0° ≈	
morning set	14841 Feb 19 13:16	4°) 49′53		morning set	14842 Feb 03 22:45	19° ≈ 32'42	
					14842 Feb 08 21:36	0° ∀	
superior conj	14841 Feb 27 07:33	20° 米 37′02	0°56'57				
minimum elong	14841 Feb 27 10:10	20° ¥ 50′05	0°56'49	superior conj	14842 Feb 11 04:06		1°16'46
	14841 Mar 04 02:57	0° Υ		minimum elong	14842 Feb 11 06:32	4°) € 58'26	1°16'59
max. Earth dist.	14841 Mar 05 05:22	2° Υ '04'51	1.36979 AU	max. Earth dist.	14842 Feb 15 16:23	13° ¥ 58′09	1.34927 AU
desc. node	14841 Mar 06 11:05	4°Υ23'22		evening rise	14842 Feb 19 19:14	21°) 58'18	
evening rise	14841 Mar 08 23:11	8° ℃ 57'31		desc. node	14842 Feb 21 07:37	24°) (48'43	
	14841 Mar 21 13:46	0°8	25025121		14842 Feb 24 04:04	0° Υ	
evening max el	14841 Apr 13 10:50	29° ႘ 56'16 0°Ⅱ	25-35-31	avanina may al	14842 Mar 15 08:50 14842 Mar 27 00:39	0° と 13° と 42'59	26020102
ratra ara da	14841 Apr 13 12:22 14841 Apr 25 19:44	0 П 7°П04'39		evening max el		21° 8 07'18	20 38 02
retrograde asc. node	14841 Apr 30 16:41	7 Щ04 39 5°Щ26'46		retrograde evening set	14842 Apr 09 03:08 14842 Apr 15 12:28	18° 8 35'05	
evening set	14841 May 01 19:01	4° Ⅱ 36'22		asc. node	14842 Apr 17 14:02	16° 8 40'51	
min. Earth dist.	14841 May 06 01:44	29° 8 56'25	0.67748 AU	min. Earth dist.	14842 Apr 19 13:21	14° 8 30'01	0.66449 AU
iiiii. Lattii dist.	14841 May 06 00:36	30°R8	0.07740710	inferior conj	14842 Apr 21 12:36	12° 8 09'07	1°11'48
inferior conj	14841 May 07 12:15	28° 8 05'47	1°57'17	minimum elong	14842 Apr 21 10:55	_	1°10'37
minimum elong	14841 May 07 10:06	28° 8 12'41	1°55'50	morning rise	14842 Apr 27 10:29	6° 8 29'47	1 100,
morning rise	14841 May 13 01:41	22° 8 14'53		direct	14842 Apr 30 11:07	5° 8 38'48	
direct	14841 May 16 12:39	21° 8 06'21		morning max el	14842 May 06 20:54	9° 8 01'32	18°18'33
morning max el	14841 May 23 08:32	24° 8 48'23	19°00'23	desc. node	14842 May 20 09:33	27° 8 45'04	
Ü	14841 May 27 20:54	0°II			14842 May 21 19:43	0°II	
desc. node	14841 Jun 02 12:42	7° Ⅱ 52'16		morning set	14842 May 26 17:11	7° Ⅱ 46'55	
greatest brilliancy	14841 Jun 05 13:06	12° Ⅲ 21'17	-0.7m	C	14842 Jun 09 19:06	0° ©	
morning set	14841 Jun 15 13:22	27° Ⅱ 41'51					
	14841 Jun 17 01:05	0°©		superior conj	14842 Jun 11 05:25	2° © 14'05	-2°05'34
max. Earth dist.	14841 Jun 29 11:27	19°520'04	1.45615 AU	minimum elong	14842 Jun 10 22:52	1° 5 548'29	2°06'15
				max. Earth dist.	14842 Jun 12 07:45	3° 9 56'48	1.45927 AU
superior conj	14841 Jul 01 21:00	23° © 05'47	-2°13'48	evening rise	14842 Jun 27 05:23	27° © 11'00	
minimum elong	14841 Jul 01 21:52	23° © 09'12	2°14'45		14842 Jun 29 00:41	$0^{\circ}\Omega$	
	14841 Jul 06 05:56	$0^{\circ}\Omega$		greatest brilliancy	14842 Jul 07 11:38	13° Ω 06'49	-0.8m
evening rise	14841 Jul 16 20:10	17° Ω 00′52		asc. node	14842 Jul 14 12:43	23° \O 24'28	
	14841 Jul 24 20:45	0° m)		evening max el	14842 Jul 19 23:22	29° Ω 56'55	18°58'50
asc. node	14841 Jul 27 15:59	4° m 23'58			14842 Jul 20 00:37	0° m	
evening max el	14841 Aug 05 12:29	16° Mp 10° 102	18°23'04	retrograde	14842 Jul 26 17:54	3° Mp 40'07	
retrograde	14841 Aug 11 22:07	19° m 35'09		evening set	14842 Jul 30 04:18	2°m/31'56	
evening set	14841 Aug 14 23:18	18° m 43'28			14842 Aug 02 00:21	30° R Ω	

	14042 4 04 16 24	260 0 46122	2040150	1	14042 1 1 01 00 22	110051115	
inferior conj	14842 Aug 04 16:24	26° Ω 46'23	2°49'50	asc. node	14843 Jul 01 09:33	11° Ω 51'15	
minimum elong	14842 Aug 04 18:10	26° Ω 40'43	2°48'54	evening max el	14843 Jul 03 05:01	13° Ω 47'08	19°50'45
min. Earth dist.	14842 Aug 06 07:44	24° Ω 41'07	0.66547 AU	retrograde	14843 Jul 10 16:24	18° Ω 00'40	
morning rise	14842 Aug 10 07:17	20° Ω 20′52		evening set	14843 Jul 14 12:36	16° Ω 35'14	
direct	14842 Aug 16 11:43	17° Ω 42'55		inferior conj	14843 Jul 19 20:06	10° Ω 36'49	3°06'12
desc. node	14842 Aug 16 07:49	17° Ω 43'01		minimum elong	14843 Jul 19 20:58	10° Ω 33'54	3°05'18
morning max el	14842 Aug 29 07:56	25° Ω 21′08	26°16'14	min. Earth dist.	14843 Jul 20 21:18	9° Ω 12'00	0.67844 AU
	14842 Sep 02 13:48	0° m)		morning rise	14843 Jul 25 04:54	4° Ω 12'18	
	14842 Sep 23 14:57	0∘ 亚		direct	14843 Jul 30 22:47	1° Ω 41'22	
morning set	14842 Oct 04 06:12	18° ≏ 36′29		desc. node	14843 Aug 03 05:14	2° Ω 22'19	
max. Earth dist.	14842 Oct 08 02:14	25° ♀ 55'25	1.34848 AU	morning max el	14843 Aug 11 18:50	8° Ω 46'58	24°55'42
	14842 Oct 10 03:50	0° M .		Ü	14843 Aug 28 11:55	0° m)	
asc. node	14842 Oct 10 14:34	0°M53'40			14843 Sep 16 05:01	0∘ <mark>⊽</mark>	
use. noue	110.2 000 10 11.5.	0 11000 10		morning set	14843 Sep 16 13:46	0° م 38'37	
superior conj	14842 Oct 13 09:42	6°MJ34'25	0°25'43	max. Earth dist.	14843 Sep 20 03:06	0 _ 3837 7° _ 03'16	1.37000 AU
minimum elong	14842 Oct 13 08:19	6°ML27'16	0°25'57	max. Earth dist.	14643 Sep 20 03.00	/ ==03 10	1.57000 AO
_			0 23 37		14042 9 26 20-42	100 0 51115	0005122
evening rise	14842 Oct 20 22:50	22°M19'50		superior conj	14843 Sep 26 20:43	19° £ 51'15	
	14842 Oct 24 16:48	0° ∡ ¹		minimum elong	14843 Sep 26 21:03		0°05'14
evening max el	14842 Nov 08 20:05	23° х 30'19	20°47'39	behind sun begin	14843 Sep 26 14:49	19° ≏ 22'21	
desc. node	14842 Nov 12 04:15	26° ∡ ¹20'43		behind sun end	14843 Sep 27 03:18	20° ≏ 23'33	
retrograde	14842 Nov 20 06:05	29° ₮ 10'44		asc. node	14843 Sep 27 11:10	21° ഫ 02'20	
evening set	14842 Nov 22 16:51	28° ∡ 56′14			14843 Oct 01 22:42	0° M	
inferior conj	14842 Dec 01 13:58	25° х 02′51	-5°19'24	evening rise	14843 Oct 05 03:30	6°M28'30	
minimum elong	14842 Dec 01 04:54	25° ∡ 15'49	5°16'33		14843 Oct 18 08:32	0° ∡ ¹	
min. Earth dist.	14842 Dec 02 13:58	24° ∡ ¹28'27	0.54539 AU	evening max el	14843 Oct 22 05:11	4° ∡ ³34'31	19°34'03
morning rise	14842 Dec 09 17:03	21° × °08'20		desc. node	14843 Oct 30 01:33	9° ∡ 16'47	
direct	14842 Dec 14 00:27	20° ҂ 28′33		retrograde	14843 Oct 31 23:52	9° ∡ ¹27'52	
morning max el	14842 Dec 27 05:18	26° ₹ ⁷ 53'40	23°15'23	evening set	14843 Nov 02 21:46	9° х 17′29	
	14842 Dec 30 04:50	0°ਰ	25 10 25	inferior conj	14843 Nov 11 14:34	5° ₹ 12'50	-3°50'49
asc. node	14843 Jan 06 14:41	00 10°る03'27		minimum elong	14843 Nov 11 05:15	5° ∡ 1230	3°46'49
asc. nouc	14843 Jan 17 09:28	10 3 03 27 0° ≈		min. Earth dist.	14843 Nov 13 22:46	3° × ² /43'31	0.55408 AU
marning got						0° √ 51'21	0.33408 AU
morning set	14843 Jan 19 10:21	4° ≈ 17'39		morning rise	14843 Nov 19 10:48		
					14843 Nov 22 14:33	30°RM₁	
superior conj	14843 Jan 26 07:54		1°29'57	direct	14843 Nov 24 16:19	29°M50'09	
minimum elong	14843 Jan 26 09:35	19° ≈ 21'36	1°30'33		14843 Nov 26 17:56	0° ∡	
max. Earth dist.	14843 Jan 29 10:31	25° ≈ 49'38	1.33237 AU	morning max el	14843 Dec 08 14:30	6° ∡ ¹48'54	25°03'55
	14843 Jan 31 10:44	0° ℋ		asc. node	14843 Dec 24 11:50	28° ∡ ¹27'01	
evening rise	14843 Feb 03 04:15	5° ₩ 30′23			14843 Dec 25 08:52	0°ರ	
desc. node	14843 Feb 08 04:11	15° ¥ 03′25		morning set	14844 Jan 03 22:13	18° る 59'24	
	14843 Feb 16 20:33	$0^{\circ}\mathbf{\Upsilon}$			14844 Jan 08 22:46	0° ≈	
evening max el	14843 Mar 09 13:55	27° Ƴ 12'56	27°20'09				
Z .	14843 Mar 12 17:00	0°B		superior conj	14844 Jan 10 16:23	3° ≈ 49'57	1°36'48
retrograde	14843 Mar 23 04:20	4° 8 43'00		minimum elong	14844 Jan 10 17:03	3° ≈ 53'38	1°37'41
evening set	14843 Mar 29 21:18	2° 8 13'03		max. Earth dist.	14844 Jan 12 11:51	7° ≈ 48'31	1.32005 AU
evening set	14843 Apr 01 10:24	30°RY		evening rise	14844 Jan 17 23:08	19° ≈ 26'11	1.52005 710
min. Earth dist.	*	28° Y ′40′07	0.64758 AU	evening rise	14844 Jan 23 07:27	0° \	
	14843 Apr 02 17:43	26° Y 47'01	0.04/38 AU	11-			
asc. node	14843 Apr 04 11:27		001.4102	desc. node	14844 Jan 26 00:51	5°) €02'18 0° Υ	
inferior conj	14843 Apr 05 05:12	25° Y 58′21	0°14'02		14844 Feb 11 01:26		25025102
minimum elong	14843 Apr 05 04:48	25° Y ′59′25	0°13'32	evening max el	14844 Feb 20 01:14	10° ℃ 15'07	27°35'03
transit middle	14843 Apr 05 04:48	25° Y 59'25	0°13'32	retrograde	14844 Mar 04 22:35	17° Y ′42'26	
transit begin	14843 Apr 05 03:11	26° Y 03'53		evening set	14844 Mar 11 19:04	15° Y 22'17	
transit end	14843 Apr 05 06:26	25° Ƴ 54'58		min. Earth dist.	14844 Mar 15 13:15	12° Ƴ 16'41	0.62753 AU
morning rise	14843 Apr 11 14:15	20° Ƴ 32'40		inferior conj	14844 Mar 18 11:08	9° Y 26'35	-0°56'20
direct	14843 Apr 14 05:36	19° Ƴ 56′24		minimum elong	14844 Mar 18 13:01	9° Ƴ 21'59	0°55'38
morning max el	14843 Apr 20 13:26	23° Y 12'20	17°53'41	asc. node	14844 Mar 21 08:54	6° Ƴ 45'54	
	14843 Apr 26 01:30	8° 0		morning rise	14844 Mar 25 09:45	4° Ƴ 16'58	
desc. node	14843 May 07 06:19	17° 8 55'17		direct	14844 Mar 27 17:14	3° Y 51'56	
morning set	14843 May 08 00:50	19° 8 12'14		morning max el	14844 Apr 03 07:14	7° Υ 12'38	17°46'15
	14843 May 14 13:50	0°Ⅱ			14844 Apr 18 08:28	0°8	
	1 10 15 Iviay 17 15.50	ν д.		morning set	14844 Apr 19 09:24	1° 8 48'35	
superior con:	1/19/12 May 21 21:27	11° Ⅱ 48'56	1030110	desc. node	-	8° 8 17'57	
superior conj	14843 May 21 21:36			desc. node	14844 Apr 23 03:00	o O1/3/	
minimum elong	14843 May 21 12:46	11° Ⅱ 13'45			1404434 01 10 10	200	1002142
max. Earth dist.	14843 May 26 03:44		1.45489 AU	superior conj	14844 May 01 10:19	22° 8 22'51	
_	14843 Jun 02 12:19	0°€		minimum elong	14844 May 01 04:16	21° 8 57'43	1°02'36
evening rise	14843 Jun 06 20:16	6° © 39'37			14844 May 06 02:04	Π $\circ 0$	
greatest brilliancy	14843 Jun 21 10:07	28° © 34'25	-0.6m	max. Earth dist.	14844 May 07 21:11	2° Ⅱ 53'17	1.44359 AU
	1 40 42 T 22 00 40	000		evening rise	14944 May 16 07:51	1.00 T 00102	
	14843 Jun 22 09:48	$0 {\circ} \Omega$		evening rise	14844 May 16 07:51	16° Ⅱ 08'03	

	14844 May 25 11:58	0° ©			14845 May 19 07:39	0°©	
evening max el	14844 Jun 15 04:46	27° © 38'34	20°56'35	evening max el	14845 May 28 23:15		22°12'38
asc. node	14844 Jun 17 06:29	29° © 33'21		asc. node	14845 Jun 04 03:32	16°5516'01	
	14844 Jun 17 19:35	0° Ω		retrograde	14845 Jun 07 13:08	17°507'19	
retrograde	14844 Jun 23 15:25	2° Ω 31'34		evening set	14845 Jun 12 07:03	15°908'36	2002110
evening set	14844 Jun 27 22:07	0° Ω 49'03		inferior conj	14845 Jun 17 13:28	8°549'09	3°03'18
	14844 Jun 28 20:11	30°₹©	2010115	minimum elong	14845 Jun 17 12:26	8°952'46	3°02'11
inferior conj minimum elong	14844 Jul 03 03:51 14844 Jul 03 03:43	24° © 39'13 24° © 39'39	3°10'15 3°09'17	min. Earth dist. morning rise	14845 Jun 17 11:53 14845 Jun 22 17:38	8°954'39 2°935'38	0.69039 AU
min. Earth dist.	14844 Jul 03 15:26	23°\$59'01	0.68682 AU	direct	14845 Jun 27 11:10	0°935'52	
morning rise	14844 Jul 08 09:03	18° © 19'07	0.08082 AU	desc. node	14845 Jul 06 23:52	6°935'56	
direct	14844 Jul 13 15:03	16° © 01'34		morning max el	14845 Jul 06 18:41	6° © 02'53	21°58'51
desc. node	14844 Jul 20 02:36	18°9541'32		morning max ci	14845 Jul 25 04:48	0° Ω	21 3031
morning max el	14844 Jul 24 05:36	22°521'03	23°26'51	morning set	14845 Aug 08 10:59	21° Ω 49'47	
	14844 Jul 30 21:52	0°N			14845 Aug 13 11:30	0° m)	
	14844 Aug 20 19:04	0° m		max. Earth dist.	14845 Aug 14 02:49	1° m 03'31	1.41684 AU
morning set	14844 Aug 28 00:29	11° m 45'40			-		
max. Earth dist.	14844 Sep 01 01:04	18° m 37'59	1.39370 AU	superior conj	14845 Aug 21 20:54	14° m) 18'48	-1°16'16
	14844 Sep 07 09:36	0∘ ⊽		minimum elong	14845 Aug 22 02:53	14° m 45'05	1°15'47
					14845 Aug 30 13:16	0∘ ⊽	
superior conj	14844 Sep 08 17:54	2° ≏ 29'19	-0°40'27	asc. node	14845 Aug 31 04:20	1° ≏ 09'35	
minimum elong	14844 Sep 08 20:53	2° ≏ 43'12	0°39'59	evening rise	14845 Sep 01 12:18	3° ≙ 37'16	
asc. node	14844 Sep 13 07:45	11° ≏ 08'48		evening max el	14845 Sep 17 11:43	29° ≏ 03'58	18°12'28
evening rise	14844 Sep 18 01:11	20° ≏ 17'17			14845 Sep 18 11:44	0° M	
	14844 Sep 23 03:35	0° ™		retrograde	14845 Sep 24 16:31	2°M44'15	
evening max el	14844 Oct 04 03:43	16°M28′25	18°42'37	evening set	14845 Sep 26 20:15	2°M25'05	
retrograde	14844 Oct 12 10:32	20°M39'05			14845 Oct 01 07:40	30° ₹ Ω	
evening set	14844 Oct 14 08:26	20°M26'32		desc. node	14845 Oct 02 20:24	28° ₽ 47'33	0025112
desc. node	14844 Oct 15 22:57	19°M57'47	200 4112	inferior conj	14845 Oct 04 04:18	27° £ 39'54	
inferior conj	14844 Oct 22 10:33 14844 Oct 22 05:27	16°M.02'47 16°M.12'10		minimum elong min. Earth dist.	14845 Oct 04 03:25 14845 Oct 07 10:53	27° Ω 41'49 24° Ω 51'30	0°24'30 0.59165 AU
minimum elong min. Earth dist.	14844 Oct 25 13:01	13°M45'54	0.57048 AU	morning rise	14845 Oct 11 07:12	24 ≥ 31 30 22° ♀ 07'03	0.39103 AU
morning rise	14844 Oct 29 23:12	13 IIC43 34 11°M04'49	0.37046 AU	direct	14845 Oct 17 18:06	22 ⊆ 0703 20° ⊆ 13'16	
direct	14844 Nov 04 22:30	9°M37'35		morning max el	14845 Nov 01 01:09	27° £ 56'49	27°36'59
morning max el	14844 Nov 19 03:54	17°M02'04	26°36'13	morning max ci	14845 Nov 03 01:13	0°ML	27 3037
morning max or	14844 Nov 29 20:19	0° ∡ 7	20 30 13		14845 Nov 23 14:13	0° ⊼ ¹	
asc. node	14844 Dec 10 08:54	17° ∡ 26'38		asc. node	14845 Nov 27 05:51	6° х 52′43	
	14844 Dec 16 16:30	ರ°0		morning set	14845 Dec 02 15:34	17° ∡ 52'58	
morning set	14844 Dec 18 08:33	3° る 32'35		•	14845 Dec 08 04:47	0°ರ	
				max. Earth dist.	14845 Dec 09 02:23	2° る 00'38	1.31095 AU
superior conj	14844 Dec 25 03:20	18° る 30'59	1°37'33				
minimum elong	14844 Dec 25 02:56	18° る 28'43	1°38'32	superior conj	14845 Dec 09 14:53	3° る 10'27	1°32'22
max. Earth dist.	14844 Dec 25 18:15	19° る 54'12	1.31286 AU	minimum elong	14845 Dec 09 13:31	3° る 02'49	1°33'16
	14844 Dec 30 08:18	0° ≈		evening rise	14845 Dec 16 08:11	18° පි 01'56	
evening rise	14845 Jan 01 01:11	3° ≈ 38′30			14845 Dec 22 03:48	0° ≈	
desc. node	14845 Jan 11 21:35	24°≈38'04		desc. node	14845 Dec 29 18:25	13°≈42'01	
	14845 Jan 15 01:52	0°) {	27017105		14846 Jan 10 09:47	0°) {	26924105
evening max el retrograde	14845 Feb 01 08:12 14845 Feb 15 08:11	22°) 36'26 29°) 54'47	2/1/05	evening max el retrograde	14846 Jan 14 08:08 14846 Jan 28 07:19	4°) €07'02 11°) €13'44	26 24 05
evening set	14845 Feb 22 02:39	29 X 3447 27° X 52'20		evening set	14846 Feb 03 16:23	9° H 35'33	
min. Earth dist.	14845 Feb 25 22:42	25°\(\)\(\)\(\)\(\)\(\)\(\)	0.60564 AU	min. Earth dist.	14846 Feb 03 16:23 14846 Feb 07 21:38	6° ∺ 58′27	0.58380 AU
inferior conj	14845 Mar 01 02:49	22°\(\frac{1}{2}23'39		inferior conj	14846 Feb 11 00:35	4°) 39′28	
minimum elong	14845 Mar 01 07:53	22°) 12'47		minimum elong	14846 Feb 11 08:48	4°) 24'12	
asc. node	14845 Mar 08 06:23	17°) 40′22		morning rise	14846 Feb 19 04:20	0° ¥ 09'55	
morning rise	14845 Mar 08 16:24	17°) €32'47			14846 Feb 20 03:25	30°R≈	
direct	14845 Mar 10 18:13	17° ¥ 15'18		direct	14846 Feb 21 04:20	29° ≈ 56'17	
morning max el	14845 Mar 17 22:51	20°) 51′28	17°57'08		14846 Feb 22 04:57	0° ∀	
	14845 Mar 24 20:06	0° Y		asc. node	14846 Feb 23 03:49	0°) 10′14	
morning set	14845 Apr 02 12:42	15° Ƴ 16'41		morning max el	14846 Mar 01 08:30	3° ¥ 58'13	18°27'51
desc. node	14845 Apr 09 23:37	28° Y 47'58		morning set	14846 Mar 17 05:14	29°) € 20′03	
	14845 Apr 10 15:49	9° 8			14846 Mar 17 13:34	0 ° Υ	
superior conj	14845 Apr 12 22:48	4° 8 01'48		superior conj	14846 Mar 26 08:32	16° Y 38′25	0°12'11
minimum elong	14845 Apr 12 20:43	3° 8 52'41	0°23'54	minimum elong	14846 Mar 26 09:23	16° Y 42′20	0°11'51
max. Earth dist.	14845 Apr 20 10:43	16° 8 45'03	1.42652 AU	behind sun begin	14846 Mar 26 04:33	16° Υ 20'04 17° Υ '04'34	
evening rise	14845 Apr 26 07:27	26° ႘ 13'38 0° Ⅱ		behind sun end desc. node	14846 Mar 26 14:13 14846 Mar 27 20:11	17°° \ 704'34	
	14845 Apr 28 17:04	υц		desc. Hode	14040 Mai 2/ 20:11	17 1 21 30	

	14846 Apr 02 20:26	0°B		max. Earth dist.	14847 Mar 16 02:24	12° Y ′29′20	1.38262 AU
max. Earth dist.	14846 Apr 02 19:58	29° Υ 58'01	1.40543 AU	evening rise	14847 Mar 19 19:32	12 γ 25 20 19° Υ 05'53	1.36202 AC
evening rise	14846 Apr 07 03:01	7° 8 12'55	1.103.13.110	evening rise	14847 Mar 26 06:57	0°8	
e vennig 1150	14846 Apr 21 18:42	0°II			14847 Apr 15 23:26	0°II	
evening max el	14846 May 11 14:15	25° I I23'39	23°33'37	evening max el	14847 Apr 24 03:44	9° Ⅱ 17'33	24°53'10
<i>y</i>	14846 May 17 04:28	0ಂತಾ		retrograde	14847 May 05 23:45	16° Ⅱ 11'32	
retrograde	14846 May 22 08:16	1° 5 642'38		asc. node	14847 May 08 21:52	15° Ⅱ 35'04	
asc. node	14846 May 22 00:40	1° 5 642'11		evening set	14847 May 11 16:47	13° Ⅱ 47'23	
	14846 May 26 22:50	30°RⅡ		min. Earth dist.	14847 May 16 03:20	8° Ⅱ 47'05	0.68301 AU
evening set	14846 May 27 13:48	29° Ⅱ 29'38		inferior conj	14847 May 17 06:39	7° Ⅱ 16'47	2°18'12
inferior conj	14846 Jun 01 23:01	23° II 02'53	2°45'58	minimum elong	14847 May 17 04:30	7° Ⅲ 23'51	2°16'46
minimum elong	14846 Jun 01 21:17	23° Ⅲ 08'54	2°44'40	morning rise	14847 May 22 16:30	1° Ⅲ 20′22	
min. Earth dist.	14846 Jun 01 08:32	23° Ⅱ 52'41	0.68909 AU	direct	14847 May 26 09:48	0° Ⅱ 00'57	
morning rise	14846 Jun 07 04:44	16° Ⅱ 57'23		morning max el	14847 Jun 02 15:09	3° Ⅱ 59'54	19°31'59
direct	14846 Jun 11 09:53	15° Ⅱ 17'41		desc. node	14847 Jun 10 18:04	13° Ⅱ 56'34	
morning max el	14846 Jun 19 13:15	19° Ⅱ 55'33	20°38'55	greatest brilliancy	14847 Jun 15 06:20	20° Ⅲ 24′04	-0.6m
desc. node	14846 Jun 23 21:01	24° Ⅱ 45'51			14847 Jun 21 16:29	0 \circ	
	14846 Jun 27 22:21	0 \circ \odot		morning set	14847 Jun 28 02:03	9° 5 45'51	
	14846 Jul 18 08:19	0 $^{\circ}$ Ω		max. Earth dist.	14847 Jul 10 02:11	28° © 25'16	1.45095 AU
morning set	14846 Jul 18 23:14	0° Ω 57'41			14847 Jul 11 02:12	0 \circ Ω	
max. Earth dist.	14846 Jul 27 11:30	14° £ 23′24	1.43666 AU				
		_		superior conj	14847 Jul 14 06:49	5° Ω 04'19	
superior conj	14846 Aug 03 01:33	25°Ω10'19		minimum elong	14847 Jul 14 11:39	5° Ω 23'37	2°10'01
minimum elong	14846 Aug 03 09:07	25° Ω 41'52	1°48'08	evening rise	14847 Jul 28 08:03	28° Ω 03′22	
	14846 Aug 05 22:33	0° m)			14847 Jul 29 11:59	0° m)	
evening rise	14846 Aug 15 08:18	16° Mp 16'38		asc. node	14847 Aug 04 21:33	10° m/36'35	
asc. node	14846 Aug 18 00:55	21° m/00'13		evening max el	14847 Aug 15 15:28	25° m 38'22	18°10'11
	14846 Aug 23 06:47	0° ⊽	10000101	retrograde	14847 Aug 22 00:06	28° m 59'28	
evening max el	14846 Sep 01 00:51	12° ⊆ 10'03	18°02'01	evening set	14847 Aug 24 20:03	28° Mp 16'43	1053140
retrograde	14846 Sep 07 14:34	15° △ 33'58		inferior conj	14847 Aug 30 22:02	22° m 54'35	1°53'48
evening set	14846 Sep 10 02:03	15° Ω 04'32	0054146	minimum elong	14847 Aug 31 00:25	22° Mp 47'55	1°52'52
inferior conj minimum elong	14846 Sep 16 17:26 14846 Sep 16 18:59	9° £ 59'33 9° £ 55'40	0°54'46 0°54'17	min. Earth dist. morning rise	14847 Sep 02 11:26 14847 Sep 06 02:55	20° Mp 03'56 16° Mp 38'10	0.63666 AU
desc. node	14846 Sep 19 17:53	9 = 33 40 7° ⊆ 00'40	0 3417	desc. node	14847 Sep 06 02:33	16° M) 15'07	
min. Earth dist.	14846 Sep 19 17:33	7° ≗ 00'40	0.61455 AU	direct	14847 Sep 00 13.22 14847 Sep 12 17:57	14° Mp 05'53	
morning rise	14846 Sep 23 09:12	3° £ 59'51	0.01433 AO	morning max el	14847 Sep 26 15:04	22° My 06'16	27°42'55
direct	14846 Sep 30 01:03	1° - 43'15		morning max ci	14847 Oct 03 13:43	22 m/0010 0° ೧	27 42 33
morning max el	14846 Oct 14 05:43	9° ₽ 39'46	27°59'01		14847 Oct 23 05:48	o° m	
morning max er	14846 Oct 30 00:51	0°M	27 37 01	morning set	14847 Oct 31 11:18	15°MJ32'52	
asc. node	14846 Nov 14 02:43	26°M37'02		asc. node	14847 Oct 31 23:29	16°M33'59	
	14846 Nov 15 18:56	0° ⊼ ¹		max. Earth dist.	14847 Nov 05 08:07	25°M35'09	1.32335 AU
morning set	14846 Nov 16 17:16	1° √ 54'49			14847 Nov 07 09:38	0° ∡ ¹	
max. Earth dist.	14846 Nov 22 08:21	13° ∡ ′57′18	1.31439 AU				
				superior conj	14847 Nov 08 08:01	2° ∡ 01'03	1°04'16
superior conj	14846 Nov 24 01:05	17° ∡ °42'05	1°21'16	minimum elong	14847 Nov 08 05:42	1° х 48′28	1°04'43
minimum elong	14846 Nov 23 23:01	17° ∡ ³30'42	1°21'58	evening rise	14847 Nov 15 05:00	16° ₹ 59'41	
	14846 Nov 29 14:23	ರ°0			14847 Nov 21 12:52	ರ°ರ	
evening rise	14846 Nov 30 18:03	2° る 30'27		desc. node	14847 Dec 03 12:20	19° る 20'28	
	14846 Dec 15 07:28	0° ≈		evening max el	14847 Dec 08 09:06	24° る 47'21	23°19'48
desc. node	14846 Dec 16 15:19	2° ≈ 01'34			14847 Dec 15 15:16	0° ≈	
evening max el	14846 Dec 26 23:25	14° ≈ 45′00	25°00'40	retrograde	14847 Dec 21 16:42	1° ≈ 23'53	
retrograde	14847 Jan 09 18:24	21° ≈ 39′28		evening set	14847 Dec 26 01:41	0° ≈ 42′20	
evening set	14847 Jan 15 08:30	20° ≈ 29'37			14847 Dec 28 00:06	30°Ŗる	
min. Earth dist.	14847 Jan 20 11:24	17° ≈ 45'34	0.56439 AU	min. Earth dist.	14848 Jan 01 19:25	27° る 32'00	0.55035 AU
inferior conj	14847 Jan 23 01:37	16° ≈ 05′21		inferior conj	14848 Jan 03 06:38	26° ප් 40'56	
minimum elong	14847 Jan 23 10:28	15° ≈ 51'03	5°02'17	minimum elong	14848 Jan 03 10:21	26° る 35'32	5°53'24
morning rise	14847 Jan 31 14:50	11°≈57'34		morning rise	14848 Jan 11 20:34	22° る 49'31	
direct	14847 Feb 02 19:27	11°≈44'00		direct	14848 Jan 14 15:17	22° る 30'59	2002 (11.2
asc. node	14847 Feb 10 01:13	14°≈23'44	10020127	morning max el	14848 Jan 25 18:03	27°る51'26	20°36'13
morning max el	14847 Feb 12 08:08	16°≈21'30	19°20'26	asc. node	14848 Jan 27 22:36	0°≈09'36	
	14847 Feb 22 01:32	0°) €			14848 Jan 27 19:13	0°≈ 20°≈ •24!47	
morning set	14847 Mar 01 06:43	13° ¥ 45'58		morning set	14848 Feb 13 14:00	28° ≈ 24'47	
superior cori	14847 Mar 00 11:04	0° Y ′00′28	0°42'29		14848 Feb 14 08:26	0° ∺	
superior conj minimum elong	14847 Mar 09 11:04 14847 Mar 09 13:24	0° Υ 10'28	0°42'29 0°42'12	superior conj	14848 Feb 21 02:07	13°) 55′29	1°06'10
minimum ciong	14847 Mar 09 10:59	0 γ 11 43	U 74 14	minimum elong	14848 Feb 21 02:07	13 ★33 29 14°¥08'50	1°06'11
desc. node	14847 Mar 14 16:43	9° Υ 55'17		max. Earth dist.	14848 Feb 26 10:00	24° H 29'26	1.36063 AU
dose. Hode	2101, 19101 17 10.73	/ 1 33 17		man. Lui ui uist.	11010100 20 10.00	2. 1(2)20	1.50005 AU

	14848 Feb 29 07:50	0° Ƴ		minimum elong	14849 Feb 04 04:19	28° ≈ 24'57	1°23'32
desc. node	14848 Feb 29 13:13	0° Υ 25'00		J	14849 Feb 04 22:21	0° ∀	
evening rise	14848 Mar 01 06:33	1° Y '44'57		max. Earth dist.	14849 Feb 07 23:39	6°) 19'46	1.34152 AU
	14848 Mar 18 08:49	0° 8		evening rise	14849 Feb 12 08:36	15°) €01'03	
evening max el	14848 Apr 05 17:11	23° 8 08'37	26°04'07	desc. node	14849 Feb 15 09:47	20°) 47′01	
	14848 Apr 15 16:16	$\Pi^{\circ}0$			14849 Feb 20 13:49	0° Y	
retrograde	14848 Apr 18 10:32	0° Ⅲ 26′07			14849 Mar 13 00:28	$0^{\circ}B$	
	14848 Apr 21 01:15	30° ₹ 8		evening max el	14849 Mar 19 07:02	6° 8 50'29	26°58'55
evening set	14848 Apr 24 14:16	27° 8 55'16		retrograde	14849 Apr 01 15:36	14° 8 18'46	
asc. node	14848 Apr 24 19:10	27° 8 44'57		evening set	14849 Apr 08 04:22	11° 8 46'55	
min. Earth dist.	14848 Apr 28 18:14	23° 8 30'26	0.67243 AU	asc. node	14849 Apr 11 16:32	8° 8 25'16	
inferior conj	14848 Apr 30 10:17	21° 8 25'38	1°39'26	min. Earth dist.	14849 Apr 12 03:11	7° 8 55'39	0.65773 AU
minimum elong	14848 Apr 30 08:15	21° 8 31'59	1°38'04	inferior conj	14849 Apr 14 07:42	5° 8 24'33	0°48'54
morning rise	14848 May 06 02:59	15° 8 39'32		minimum elong	14849 Apr 14 06:28	5° 8 28'09	0°47'55
direct	14848 May 09 09:19	14° 8 38'57		morning rise	14849 Apr 20 10:00	29° Y 50′30	
morning max el	14848 May 16 00:06	18° 8 11'32	18°40'31		14849 Apr 20 02:56	30° Ŗ ♈	
	14848 May 25 05:03	Π °0		direct	14849 Apr 23 06:29	29° Y ′06′12	
desc. node	14848 May 27 14:58	3° Ⅱ 36′27			14849 Apr 26 11:14	0°8	
morning set	14848 Jun 06 15:56	19° Ⅱ 09'26		morning max el	14849 Apr 29 14:33	2° 8 24'53	18°05'46
	14848 Jun 13 14:35	0 \circ		desc. node	14849 May 14 11:49	23° 8 37'51	
max. Earth dist.	14848 Jun 21 20:29	12° © 51'32	1.45837 AU	morning set	14849 May 18 07:32	29° 8 48'51	
					14849 May 18 10:17	Π °0	
superior conj	14848 Jun 22 18:48	14° © 18'36				_	
minimum elong	14848 Jun 22 16:15	14° © 08'40	2°13'45	superior conj	14849 Jun 02 04:28	23° Ⅲ 33'14	
	14848 Jul 02 18:30	0 $^{\circ}\Omega$		minimum elong	14849 Jun 01 20:08		1°56'38
evening rise	14848 Jul 08 07:15	8° Ω 47'17		max. Earth dist.	14849 Jun 04 16:37	27° Ⅱ 28'45	1.45837 AU
greatest brilliancy	14848 Jul 15 04:57	19° Ω 47'03	-0.9m		14849 Jun 06 07:23	0° ©	
asc. node	14848 Jul 21 18:14	29° Ω 52'16		evening rise	14849 Jun 18 07:12	18°535'29	
	14848 Jul 21 20:21	0° m)			14849 Jun 25 17:10	0° U	
evening max el	14848 Jul 29 04:28	9° m, 20'29	18°36'13	greatest brilliancy	14849 Jun 30 15:40	7° Ω 28'08	-0.7m
retrograde	14848 Aug 04 17:01	12° TQ 51'56		asc. node	14849 Jul 08 15:00	18° Ω 39'44	10010107
evening set	14848 Aug 07 21:59	11° TQ 53'35	2024101	evening max el	14849 Jul 12 13:23	23° Ω 09'48	19°19'07
inferior conj	14848 Aug 13 14:10		2°34'01	retrograde	14849 Jul 19 14:08	27° Ω 04'12	
minimum elong	14848 Aug 13 16:20	6° Mp 09'41	2°33'03 0.65607 AU	evening set inferior conj	14849 Jul 23 04:40	25° Ω 48'47 19° Ω 57'52	2858122
min. Earth dist.	14848 Aug 15 13:52	3° m 50′50 29° Ω 52′11	0.03007 AU	,	14849 Jul 28 14:28 14849 Jul 28 15:52	$19^{\circ} 05732$ $19^{\circ} 053'15$	2°58'22 2°57'27
morning rise	14848 Aug 19 09:35 14848 Aug 19 05:54	29 δ (32 11 30°R Ω		minimum elong min. Earth dist.	14849 Jul 29 23:49	$19^{\circ} 0313$ $18^{\circ} 08'54$	0.67161 AU
desc. node	14848 Aug 23 12:51	27° Ω 32'20		morning rise	14849 Aug 03 02:29	$13^{\circ}\Omega 32'23$	0.07101 AU
direct	14848 Aug 25 12:31	$27^{\circ}\Omega_{13'22}$		direct	14849 Aug 09 02:48	$10^{\circ} \Omega 56'18$	
direct	14848 Sep 02 04:42	0° mp		desc. node	14849 Aug 10 10:19	11° Ω 02'53	
morning max el	14848 Sep 08 02:13	5° Mg 04'18	26°54'50	morning max el	14849 Aug 21 13:14	$18^{\circ}\Omega 22'11$	25°43'26
morning max cr	14848 Sep 27 03:43	0∘ ⊽	20 34 30	morning max er	14849 Aug 31 08:50	0° m)	23 43 20
morning set	14848 Oct 13 18:52	ა _ 28° ჲ 40'47			14849 Sep 20 04:10	0∘ ⊽	
morning set	14848 Oct 14 11:19	0°M		morning set	14849 Sep 26 12:20	ა 11° _ 09'33	
asc. node	14848 Oct 17 20:11	6° ™ 39'01		max. Earth dist.	14849 Sep 30 03:41	17° £ 56'16	1.35723 AU
max. Earth dist.	14848 Oct 17 22:41		1.33781 AU	asc. node	14849 Oct 04 16:49	26° ₽ 47'35	
superior conj	14848 Oct 22 09:29	16° M 01'58	0°41'24	superior conj	14849 Oct 06 02:44	29° ≏ 37'32	0°13'02
minimum elong	14848 Oct 22 07:31	15° M 51'41	0°41'42	minimum elong	14849 Oct 06 01:57	29° ₽ 33'37	0°13'17
3	14848 Oct 28 23:02	0° ∡ 7		behind sun begin	14849 Oct 05 22:25	29° ≙ 15'49	
evening rise	14848 Oct 29 15:12	1° ∡ ′25'35		behind sun end	14849 Oct 06 05:29	29° ჲ 51'25	
	14848 Nov 14 16:22	ರ°ರ			14849 Oct 06 07:11	0° M	
evening max el	14848 Nov 18 22:07	4° る 50'18	21°39'22	evening rise	14849 Oct 13 22:34	15°M42'28	
desc. node	14848 Nov 19 09:27	5° る 17'38			14849 Oct 21 05:09	0° ∡ ¹	
retrograde	14848 Dec 01 04:36	10° る 54'47		evening max el	14849 Oct 31 22:56	15° ∡ ¹27'06	20°13'42
evening set	14848 Dec 04 05:34	10° る 33'53		desc. node	14849 Nov 06 06:42	19° ∡ °27′01	
inferior conj	14848 Dec 12 23:06	6° る 42'07	-5°49'55	retrograde	14849 Nov 11 16:03	20° х 47′04	
minimum elong	14848 Dec 12 17:41	6° る 49'43	5°48'19	evening set	14849 Nov 13 19:35	20° ₹ ³35′12	
min. Earth dist.	14848 Dec 13 01:17	6° る 39'05	0.54446 AU	inferior conj	14849 Nov 22 16:34	16° ∡ "38'39	-4°46'04
morning rise	14848 Dec 21 06:28	2° る 53'56		minimum elong	14849 Nov 22 06:29	16° ₹ ⁷ 53'35	4°42'25
direct	14848 Dec 24 23:58	2° る 23'35		min. Earth dist.	14849 Nov 24 07:48	15° ∡ ¹40'29	0.54802 AU
morning max el	14849 Jan 06 13:29	8° පි 27'21	22°13'13	morning rise	14849 Nov 30 16:39	12° ∡ ³34'54	
asc. node	14849 Jan 13 19:54	17° る 10'12		direct	14849 Dec 05 10:15	11° ∡ ¹46′26	
	14849 Jan 21 12:01	0° ≈		morning max el	14849 Dec 18 23:30	18° ∡ ′26′35	24°02'19
morning set	14849 Jan 28 00:40	13° ≈ 09'35			14849 Dec 28 10:41	0°る	
				asc. node	14849 Dec 31 17:08	5° る 07'41	
superior conj	14849 Feb 04 02:09	28° ≈ 13'31	1°23'08	morning set	14850 Jan 12 12:36	27° る 53'39	

	14850 Jan 13 12:04	0° ≈		morning max el	14850 Nov 30 09:41	28°M25'34	25°46'18
				_	14850 Dec 01 23:34	0° ∡ 7	
superior conj	14850 Jan 19 08:13	12°≈45'20	1°33'36	asc. node	14850 Dec 18 14:17	23° х 48'14	
minimum elong	14850 Jan 19 09:29	12° ≈ 52'15	1°34'21	_	14850 Dec 21 21:36	0° ろ	
max. Earth dist.	14850 Jan 21 21:09	18°≈14'32	1.32656 AU	morning set	14850 Dec 28 00:02	12° る 32'25	
evening rise	14850 Jan 26 22:11	28°≈44'12					
	14850 Jan 27 13:18	0° ∀		superior conj	14851 Jan 03 17:58	27° ♂ 24'44	
desc. node	14850 Feb 02 06:24	10°) € 55'47		minimum elong	14851 Jan 03 18:11	27° る 25'54	1°38'48
	14850 Feb 13 17:32	0°Υ			14851 Jan 04 22:00	0° ≈	
evening max el	14850 Mar 01 19:58	20° Y 10′56	27°30'16	max. Earth dist.	14851 Jan 05 01:11	0° ≈ 17'36	1.31640 AU
retrograde	14850 Mar 15 13:48	27° Y ′39′56		evening rise	14851 Jan 10 20:25	12° ≈ 47'32	
evening set	14850 Mar 22 08:47	25° Y 13'33			14851 Jan 19 16:53	0° ∀	
min. Earth dist.	14850 Mar 26 04:04	21° Y ′52'46	0.63940 AU	desc. node	14851 Jan 20 03:05	0°) 45'40	
inferior conj	14850 Mar 28 20:10	19° Y ′06′06			14851 Feb 09 08:20	0° Υ	
minimum elong	14850 Mar 28 20:37	19° ℃ 04'56	0°14'18	evening max el	14851 Feb 12 05:43	2° Y 56'50	27°31'35
transit middle	14850 Mar 28 20:37	19° Y ′04'56	0°14'18	retrograde	14851 Feb 26 04:13	10° Y 20′15	
transit begin	14850 Mar 28 19:13	19° Y ′08′35		evening set	14851 Mar 05 00:51	8° Y ′06'37	
transit end	14850 Mar 28 22:00	19° Y ′01'17		min. Earth dist.	14851 Mar 08 19:10	5° Y 10'48	0.61838 AU
asc. node	14850 Mar 29 13:58	18° Y 19'59		inferior conj	14851 Mar 11 20:26	2° Y 21′52	
morning rise	14850 Apr 04 10:42	13° Y 46'35		minimum elong	14851 Mar 11 23:35	2° Y 14'35	1°28'27
direct	14850 Apr 06 22:35	13° Y 15′25			14851 Mar 14 12:52	30°₽)	
morning max el	14850 Apr 13 07:55	16° Ƴ 31'58	17°48'20	asc. node	14851 Mar 16 11:27	28°) ₹35'07	
	14850 Apr 23 01:51	0°8		morning rise	14851 Mar 19 01:20	27° ¥ 19′59	
morning set	14850 Apr 30 02:32	11° 8 47'07		direct	14851 Mar 21 06:14	26° ¥ 58'30	
desc. node	14850 May 01 08:34	13° 8 54'18			14851 Mar 27 15:03	0° Y	
	14850 May 11 00:29	Π °0		morning max el	14851 Mar 28 01:11	0° Y 24'05	17°48'39
				morning set	14851 Apr 12 19:46	24° Y 47'39	
superior conj	14850 May 13 04:23	3° Ⅱ 30'47			14851 Apr 15 18:04	0° 8	
minimum elong	14850 May 12 20:21	2° ∏ 58'16		desc. node	14851 Apr 18 05:13	4° 8 20'42	
max. Earth dist.	14850 May 18 12:15	12° ∏ 01'54	1.45096 AU				
evening rise	14850 May 28 18:40	27° ∏ 59′28		superior conj	14851 Apr 24 03:15	14° 8 32'45	
	14850 May 30 02:14	0°50		minimum elong	14851 Apr 23 22:55	14° 8 14'24	
	14850 Jun 19 16:59	0° N		max. Earth dist.	14851 May 01 04:37	26° 8 13'29	1.43692 AU
asc. node	14850 Jun 25 11:51	6°Ω49'32 7°Ω01'34	20017115		14851 May 03 12:58	0°П 7°П 40110	
evening max el	14850 Jun 25 16:38		20°17'15	evening rise	14851 May 08 09:49	7°∏40'10 0°∽	
retrograde evening set	14850 Jul 03 13:02	11° Ω 30'29 9° Ω 57'33		avanina may al	14851 May 23 07:45 14851 Jun 08 13:55	20° © 53'10	2102755
inferior conj	14850 Jul 07 13:44 14850 Jul 12 20:09	3° Ω 54'09	3°09'19	evening max el asc. node	14851 Jun 12 08:49	20 \$33 10 24°\$08'42	21 2/33
minimum elong	14850 Jul 12 20:36	3°Ω52'38	3°08'23	retrograde	14851 Jun 17 11:44	26°\$04'40	
min. Earth dist.	14850 Jul 13 15:28		0.68265 AU	evening set	14851 Jun 21 23:12	24° © 14'51	
mm. Latti dist.	14850 Jul 15 19:12	30°RS	0.00203 AC	inferior conj	14851 Jun 27 04:56	18°900'29	3°08'36
morning rise	14850 Jul 18 03:09	27° © 31'29		minimum elong	14851 Jun 27 04:24	18°902'20	3°07'35
direct	14850 Jul 23 16:09	25°905'42		min. Earth dist.	14851 Jun 27 10:47	17°5540'06	0.68892 AU
desc. node	14850 Jul 28 07:44	26°\$28'22		morning rise	14851 Jul 02 09:24	11°5543'05	0.00092710
***************************************	14850 Aug 02 01:13	$0^{\circ}\Omega$		direct	14851 Jul 07 10:01	9° © 33'01	
morning max el	14850 Aug 03 23:51	1° Ω 52'09	24°18'21	desc. node	14851 Jul 15 05:04	13° © 22'40	
5 5	14850 Aug 25 09:02	0° m)		morning max el	14851 Jul 17 11:26	15° © 30'19	22°48'54
morning set	14850 Sep 08 11:34	22° m) 49'47		, and the second	14851 Jul 29 07:53	$0^{\circ}\Omega$	
max. Earth dist.	14850 Sep 12 02:54	29° m 14'17	1.38003 AU		14851 Aug 18 08:25	0° m	
	14850 Sep 12 13:05	0∘ ⊽		morning set	14851 Aug 20 12:14	3° m 30'57	
	-			max. Earth dist.	14851 Aug 25 02:14	11° m 10'43	1.40381 AU
superior conj	14850 Sep 19 08:24	12° ≏ 39'42	-0°20'01				
minimum elong	14850 Sep 19 09:46	12° ≏ 46'14	0°19'38	superior conj	14851 Sep 01 22:21	24° m 58'11	-0°55'45
asc. node	14850 Sep 21 13:24	16° ≙ 56'12		minimum elong	14851 Sep 02 02:38	25° m 17'38	0°55'16
evening rise	14850 Sep 28 00:41	29° ≏ 44'22			14851 Sep 04 16:08	0∘ ⊽	
	14850 Sep 28 03:50	o° m ₊		asc. node	14851 Sep 08 09:57	7° ♀ 00'47	
evening max el	14850 Oct 14 14:06	26°M53'03	19°09'24	evening rise	14851 Sep 11 18:22	13° ≏ 22'30	
	14850 Oct 18 12:53	0° ≯ 7			14851 Sep 20 22:37	0° M	
retrograde	14850 Oct 23 16:26	1° ≯ 27'13		evening max el	14851 Sep 27 17:04	9° ™ 05′26	18°27'12
desc. node	14850 Oct 24 04:02	1° ∡ ¹26′29		retrograde	14851 Oct 05 11:43	13° M 01'58	
evening set	14850 Oct 25 13:20	1° ∡ 16′26		evening set	14851 Oct 07 11:30	12° M 47'11	
	14850 Oct 29 04:48	30°RM		desc. node	14851 Oct 11 01:27	11°M14'26	
inferior conj	14850 Nov 03 00:40	27°M03'50		inferior conj	14851 Oct 15 05:59	8° ™ 14'08	
minimum elong	14850 Nov 02 16:54	27° ™ 16'57		minimum elong	14851 Oct 15 02:51	8°M20′21	1°18'31
min. Earth dist.	14850 Nov 05 18:18		0.56032 AU	min. Earth dist.	14851 Oct 18 11:38	5°M41'26	0.57907 AU
morning rise	14850 Nov 10 17:56	22°M27'34		morning rise	14851 Oct 22 14:42	3°M00'15	
direct	14850 Nov 16 07:38	21°M15'56		direct	14851 Oct 28 19:28	1°M21'43	

morning max el	14851 Nov 12 02:34	8°M55'32	27°06'38	desc. node	14852 Sep 26 22:55	19° ≏ 36'53	
	14851 Nov 28 02:50	0° ∡ ¹		min. Earth dist.	14852 Sep 29 13:35	17° ≏ 14'16	0.60137 AU
asc. node	14851 Dec 05 11:18	13° ∡ °00′15		morning rise	14852 Oct 03 06:37	14° ≏ 24'39	
morning set	14851 Dec 12 09:11	27° ∡ 101'04		direct	14852 Oct 09 20:27	12° ≏ 20'05	
	14851 Dec 13 18:23	0°ಕ		morning max el	14852 Oct 24 03:09	20° ≏ 10'58	27°51'08
					14852 Nov 01 13:54	0° M	
superior conj	14851 Dec 19 05:24	12° る 05'54	1°36'05		14852 Nov 20 00:25	0° ∡ 7	
minimum elong	14851 Dec 19 04:34	12° る 01'15	1°37'03	asc. node	14852 Nov 21 08:12	2° ∡ ³34'51	
max. Earth dist.	14851 Dec 19 08:46	12° る 24'49	1.31135 AU	morning set	14852 Nov 25 14:10	11° ∤ 14'13	
evening rise	14851 Dec 26 00:48	27° る 05'06		max. Earth dist.	14852 Dec 01 16:12	24° ∡ ¹27'07	1.31167 AU
	14851 Dec 27 09:55	0° ≈					
desc. node	14852 Jan 06 23:50	20° ≈ 09'21		superior conj	14852 Dec 02 16:35		1°28'23
	14852 Jan 13 04:22	0° ∀		minimum elong	14852 Dec 02 14:53	26° ∡ '33'23	1°29'13
evening max el	14852 Jan 25 09:47	14° ¥ 56'58	26°58'41		14852 Dec 04 03:54	0°₹	
retrograde	14852 Feb 08 09:48	22° ∺ 11'16		evening rise	14852 Dec 09 09:12	11° る 31'09	
evening set	14852 Feb 15 01:23	20° ¥ 18′02			14852 Dec 18 14:51	0° ≈	
min. Earth dist.	14852 Feb 18 23:57	17°) 37′49	0.59617 AU	desc. node	14852 Dec 23 20:40	8° ≈ 56′10	
inferior conj	14852 Feb 22 04:56	15° ∺ 02'46	-2°54'56	evening max el	14853 Jan 06 05:57	26° ≈ 04'26	25°51'51
minimum elong	14852 Feb 22 11:27	14° ¥ 49'38	2°52'08		14853 Jan 11 02:31	0° ∀	
morning rise	14852 Mar 01 00:53	10° ∺ 21'10		retrograde	14853 Jan 20 04:24	3° ₩ 06'55	
asc. node	14852 Mar 02 08:55	10° ₩ 07'36		evening set	14853 Jan 26 06:24	1°) 40′36	
direct	14852 Mar 03 01:17	10°) 05'49			14853 Jan 29 07:46	30° R ≈	
morning max el	14852 Mar 10 14:51	13° ¥ 51'33	18°07'46	min. Earth dist.	14853 Jan 30 18:59	29° ≈ 02'29	0.57497 AU
	14852 Mar 21 13:57	0° Υ		inferior conj	14853 Feb 02 18:06	26° ≈ 58'16	-4°21'17
morning set	14852 Mar 26 05:18	8° Y '32'48		minimum elong	14853 Feb 03 03:06	26° ≈ 42'31	4°17'59
desc. node	14852 Apr 04 01:48	24° Y ′53'06		morning rise	14853 Feb 11 02:44	22° ≈ 38'11	
	1			direct	14853 Feb 13 03:27	22° ≈ 25'14	
superior conj	14852 Apr 05 01:20	26° Ƴ 38'32	-0°07'59	asc. node	14853 Feb 17 06:23	23° ≈ 21'57	
minimum elong	14852 Apr 05 00:40	26° Ƴ 35'33	0°08'14	morning max el	14853 Feb 21 20:48	26° ≈ 41'39	18°47'27
behind sun begin	14852 Apr 04 18:01	26° Y ′05'53		. 8	14853 Feb 24 19:06	0° ∀	
behind sun end	14852 Apr 05 07:18	27° Y °05'09		morning set	14853 Mar 10 02:04	22°) 46'59	
ovinna san vna	14852 Apr 06 22:48	0°8		morning sec	14853 Mar 13 18:45	0°Υ	
max. Earth dist.	14852 Apr 12 16:02	9° 8 49'12	1.41781 AU		11000 11441 15 10.10	• •	
evening rise	14852 Apr 17 17:24	18° 8 08'00	1.11,01110	superior conj	14853 Mar 18 18:44	9° Υ 35'55	0°25'48
evening rise	14852 Apr 25 07:07	0°II		minimum elong	14853 Mar 18 20:23	9° Υ 43'40	0°25'27
	14852 May 16 22:25	0.2e		desc. node	14853 Mar 21 22:19	15° Υ 27'09	0 23 27
evening max el	14852 May 21 06:31	4°9645'25	22°46'46	max. Earth dist.	14853 Mar 25 23:12		1.39574 AU
asc. node	14852 May 29 05:54	10°9521'36	22 40 40	evening rise	14853 Mar 29 22:03	29° Υ 31'02	1.57574710
retrograde	14852 May 31 08:41	10°9541'28		evening rise	14853 Mar 30 04:55	0° 8	
evening set	14852 Jun 05 07:26	8°936'21			14853 Apr 18 16:54	0°II	
inferior conj	14852 Jun 10 14:46	2°9513'10	2057113	evening max el	14853 May 03 20:39	18° Ⅱ 39'09	24°08'06
minimum elong	14852 Jun 10 13:24	2°917'56	2°56'02	retrograde	14853 May 15 02:26	25° Ⅱ 14'30	24 08 00
min. Earth dist.	14852 Jun 10 13:24	2°937'58	0.69038 AU	asc. node	-	25° Ⅱ 09'54	
IIIII. Eartii dist.	14852 Jun 10 07.39	2 €37 38 30°R∏	0.09038 AU	evening set	14853 May 16 03:04	23 H09 34 22°H56'35	
marning rise		30 KII 26°II02'45		C	14853 May 20 12:46	17° Ⅱ 35'00	0.68705 AU
morning rise	14852 Jun 15 19:16 14852 Jun 20 07:23			min. Earth dist.	14853 May 25 03:52		
direct		24° Ⅱ 11'30	21922120	inferior conj	14853 May 25 23:44	16° Ⅱ 27'38	2°35'30
morning max el	14852 Jun 29 02:37	29° Ⅱ 17'21 0° ©	21°23'30	minimum elong	14853 May 25 21:47 14853 May 31 06:51	16° Ⅲ 34'17 10° Ⅲ 25'34	2 34 08
daga mada	14852 Jun 29 19:21			morning rise	•		
desc. node	14852 Jul 01 02:17	1°523'12		direct	14853 Jun 04 06:53	8° Ⅱ 54'27	20000126
	14852 Jul 21 23:24	0°N		morning max el	14853 Jun 12 00:03	13° Ⅱ 14'35	20°08'36
morning set	14852 Jul 30 12:33	13° Ω 09'33	1 40502 411	desc. node	14853 Jun 17 23:23	20° Ⅱ 11'56	
max. Earth dist.	14852 Aug 06 06:21		1.42583 AU		14853 Jun 25 01:29	0°©	
	14852 Aug 09 21:41	0° m)		morning set	14853 Jul 09 18:29	22° © 02'36	
	14050 4 10 16 10	60 m 22110	1020120		14853 Jul 14 21:35	0° Ω	1 44051 477
superior conj	14852 Aug 13 16:13	6° Mp 23'48		max. Earth dist.	14853 Jul 19 17:19	7° 31 36'34	1.44351 AU
minimum elong	14852 Aug 13 23:12	6° My 53'48	1°30'18			0	
evening rise	14852 Aug 24 23:40	26° m 26'52		superior conj	14853 Jul 25 10:49	16° Ω 50'47	
asc. node	14852 Aug 25 06:30	26° m 57'48		minimum elong	14853 Jul 25 17:54	17° Ω 19'43	1~59'10
	14852 Aug 26 22:49	0∘ ʊ	1000		14853 Aug 02 08:37	0° m)	
evening max el	14852 Sep 10 03:43	21° Ω 55'19	18°05'39	evening rise	14853 Aug 07 11:40	8° Mp 45'26	
retrograde	14852 Sep 17 00:55	25° ≏ 26'56		asc. node	14853 Aug 12 03:05	16° Mp 43'15	
evening set	14852 Sep 19 07:43	25° Ω 03'56		_	14853 Aug 20 10:53	0∘ ত	
inferior conj	14852 Sep 26 08:25	20° ≏ 10'21	0°11'17	evening max el	14853 Aug 24 18:00	5° ≙ 12'57	18°03'19
minimum elong	14852 Sep 26 08:47	20° ₾ 09'29		retrograde	14853 Aug 31 04:16	8° ₾ 33'40	
transit middle	14852 Sep 26 08:47	20° ₾ 09'29	0°11'24	evening set	14853 Sep 02 19:22	7° ≙ 58'51	
transit begin	14852 Sep 26 06:25	20° ≙ 14'55		inferior conj	14853 Sep 09 04:38	2° ≏ 46'29	1°22'16
transit end	14852 Sep 26 11:09	20° ≏ 04'02		minimum elong	14853 Sep 09 06:43	2° ≏ 41'03	1°21'30

		200- 1			14054 1 22 1426	150% 50110	2012100
	14853 Sep 11 20:30	30°R, M)	0.60400.433	inferior conj	14854 Aug 23 14:36	15° m 53'42	
min. Earth dist.	14853 Sep 12 01:07	29° Mp 48'26	0.62423 AU	minimum elong	14854 Aug 23 16:59	15° Mp 46'44	2°12'01
desc. node	14853 Sep 13 20:23	28° Mp 05'57		min. Earth dist.	14854 Aug 25 22:14	13° m) 12'23	0.64533 AU
morning rise	14853 Sep 15 15:42	26° m) 38'47		morning rise	14854 Aug 29 15:16	9° m 33'19	
direct	14853 Sep 22 08:06	24° m) 14'13		desc. node	14854 Aug 31 17:54	8° m 08'07	
	14853 Oct 04 01:09	0∘ ⊽	0.50.5.610.0	direct	14854 Sep 05 04:26	6° m 57'23	25025150
morning max el	14853 Oct 06 09:52	2° ₾ 13'22	27°56'28	morning max el	14854 Sep 18 20:14	14° m 54'34	27°25'58
	14853 Oct 26 22:37	0°M			14854 Oct 01 04:22	0∘ 亚	
asc. node	14853 Nov 08 05:00	22°M25'32		_	14854 Oct 19 15:21	0° M .	
morning set	14853 Nov 09 12:56	25°ML07'11		morning set	14854 Oct 24 02:53	8°M33'12	
	14853 Nov 11 21:24	0° ∡ ¹		asc. node	14854 Oct 26 01:43	12°M26'22	
max. Earth dist.	14853 Nov 14 19:54	6° ∡ 16'52	1.31752 AU	max. Earth dist.	14854 Oct 28 16:15	17° M 46'33	1.32892 AU
aumorior coni	14952 Nov. 17, 01.41	11° ∡ 10′39	1°14'47	aumariar aani	14954 Nov. 01 06:26	250M 22147	0°55'17
superior conj	14853 Nov 17 01:41 14853 Nov 16 23:27	11 x ·10 39 10° x ⁷ 58′23	1°1447 1°15'23	superior conj	14854 Nov 01 06:36	25°M22'47 25°M10'42	
minimum elong	14853 Nov 16 25.27 14853 Nov 23 19:48	10 x · 38 23 26° x ¹01′22	1 13 23	minimum elong	14854 Nov 01 04:21 14854 Nov 03 10:02	23 1161042 0° x 7	0 33 40
evening rise	14853 Nov 25 16:29	20 x・01 22 0°る		ovenina riae		0 x · 10° x 7 30'06	
				evening rise	14854 Nov 08 06:41		
desc. node	14853 Dec 10 17:37	26° る 52'37			14854 Nov 18 04:26	0°る	
	14853 Dec 13 01:13	0° ≈	24010150	desc. node	14854 Nov 27 14:41	13° る 39'37	22025155
evening max el	14853 Dec 18 18:24	6°≈25'20	24°18'58	evening max el	14854 Nov 30 04:15	16°る22'55	22°35'55
retrograde	14854 Jan 01 09:50	13°≈12'38		retrograde	14854 Dec 13 02:31	22° ♂ 47'17	
evening set	14854 Jan 06 12:29	12°≈15'33		evening set	14854 Dec 16 21:48	22° ろ 15'39	
min. Earth dist.	14854 Jan 12 06:05	9° ≈ 22'37	0.55760 AU	min. Earth dist.	14854 Dec 24 12:21	18° ⋜ 48'41	0.54682 AU
inferior conj	14854 Jan 14 10:16	8° ≈ 02'44		inferior conj	14854 Dec 25 08:31	18° る 20'15	
minimum elong	14854 Jan 14 17:45	7° ≈ 51'16	5°29'15	minimum elong	14854 Dec 25 08:24	18° る 20'25	5°59'10
morning rise	14854 Jan 23 00:54	4° ≈ 02'33		morning rise	14855 Jan 02 20:14	14° る 32'33	
direct	14854 Jan 25 10:22	3° ≈ 47'30		direct	14855 Jan 06 00:12	14° る 09'45	
asc. node	14854 Feb 04 03:46	8° ≈ 16'43		morning max el	14855 Jan 17 18:19	19° る 48'23	21°15'14
morning max el	14854 Feb 04 14:54	8° ≈ 43'05	19°49'44	asc. node	14855 Jan 22 01:06	24° る 36'12	
	14854 Feb 18 14:03	0° ∀			14855 Jan 25 20:31	0° ≈	
morning set	14854 Feb 22 06:24	7° ∺ 19'34		morning set	14855 Feb 06 15:25	22° ≈ 01'51	
					14855 Feb 10 10:25	0° ∀	
superior conj	14854 Mar 02 03:05	23° ¥ 13′06	0°53'20				
minimum elong	14854 Mar 02 05:39	23° ¥ 25'51	0°53'10	superior conj	14855 Feb 13 22:21	7° ¥ 18'52	
	14854 Mar 05 14:31	0° Y		minimum elong	14855 Feb 14 00:51	7° ∺ 31'48	
max. Earth dist.	14854 Mar 08 05:43	4° Ƴ 58'35	1.37310 AU	max. Earth dist.	14855 Feb 18 15:49	16° ¥ 53'35	1.35209 AU
desc. node	14854 Mar 08 18:51	5° Ƴ 59'30		evening rise	14855 Feb 22 16:44	24°) 40′33	
evening rise	14854 Mar 11 22:54	11° Ƴ 44'55		desc. node	14855 Feb 23 15:24	26° ¥ 26′21	
	14854 Mar 22 20:26	$_{0\circ}$ 8			14855 Feb 25 14:03	0° Ƴ	
	14854 Apr 13 23:04	$0^{\circ}\Pi$			14855 Mar 16 09:41	0° 8	
evening max el	14854 Apr 16 10:15	2° Ⅱ 33'05	25°24'54	evening max el	14855 Mar 29 23:57	16° 8 21'27	26°29'49
retrograde	14854 Apr 28 15:53	9° Ⅱ 37'47		retrograde	14855 Apr 12 00:11	23° 8 44'24	
asc. node	14854 May 03 00:20	8° Ⅱ 18'54		evening set	14855 Apr 18 08:12	21° 8 12'16	
evening set	14854 May 04 13:36	7° Ⅱ 10′26		asc. node	14855 Apr 19 21:41	19° 8 47'33	
min. Earth dist.	14854 May 08 21:16	2° Ⅱ 25'19	0.67908 AU	min. Earth dist.	14855 Apr 22 09:48	17° 8 02'16	0.66668 AU
inferior conj	14854 May 10 05:56	0°Ⅱ39'48	2°03'10	inferior conj	14855 Apr 24 07:15	14° 8 45'09	1°19'32
minimum elong	14854 May 10 03:46	0°Ⅱ46'48	2°01'43	minimum elong	14855 Apr 24 05:27	14° 8 50'36	1°18'16
	14854 May 10 18:16	30° ₹ 8		morning rise	14855 Apr 30 03:42	9° 8 04'08	
morning rise	14854 May 15 18:21	24° 8 47'28		direct	14855 May 03 05:47	8° 8 10'46	
direct	14854 May 19 06:58	23° 8 36'06		morning max el	14855 May 09 16:37	11° 8 35'34	18°23'44
morning max el	14854 May 26 04:58	27° 8 21'58	19°08'03	desc. node	14855 May 22 17:17	29° 8 25'56	
	14854 May 28 15:37	Π \circ 0			14855 May 23 02:01	Π $^{\circ}0$	
desc. node	14854 Jun 04 20:23	9° Ⅱ 35'58		morning set	14855 May 29 23:26	10° Ⅲ 52'46	
greatest brilliancy	14854 Jun 08 03:26	14° Ⅲ 26′51	-0.7m		14855 Jun 11 03:00	0 \circ \mathfrak{S}	
	14854 Jun 18 08:14	0°€					
morning set	14854 Jun 18 23:29	0° ഇ 58'47		superior conj	14855 Jun 14 16:13	5° © 32'43	-2°08'06
max. Earth dist.	14854 Jul 02 10:14	21° © 52'09	1.45502 AU	minimum elong	14855 Jun 14 10:34	5° © 10'41	2°08'52
				max. Earth dist.	14855 Jun 15 06:11	6°527'14	1.45928 AU
superior conj	14854 Jul 05 07:23	26°ණ24'02	-2°13'16		14855 Jun 30 07:46	$0^{\circ}\Omega$	
minimum elong	14854 Jul 05 09:25	26°532'04	2°14'10	evening rise	14855 Jun 30 14:02	0° Ω 24'36	
Č	14854 Jul 07 14:01	$0^{\circ}\Omega$		greatest brilliancy	14855 Jul 10 01:29	15° Ω 12'56	-0.8m
evening rise	14854 Jul 20 01:15	20° Ω 05'46		asc. node	14855 Jul 16 20:28	25° Ω 16′27	
Ç	14854 Jul 26 02:46	0° m/y			14855 Jul 20 11:40	0° m)	
asc. node	14854 Jul 29 23:44	6° mp 11'30		evening max el	14855 Jul 22 19:51	2° m/34'10	18°52'25
evening max el	14854 Aug 08 08:21	18° m)48'19	18°19'10	retrograde	14855 Jul 29 12:37	6° m 14'04	
retrograde	14854 Aug 14 17:24	22° m/11'58		evening set	14855 Aug 01 21:34	5° m 08'29	
evening set	14854 Aug 17 17:14	21° m/22'38		2	14855 Aug 06 23:30	30°R€	
J	5				5		

	14055 4 07 10 27	200 02 4150	2046107		14056 1 1 05 02 22	160 00 4116	10042105
inferior conj	14855 Aug 07 10:37	29° Ω 24'58	2°46'07	evening max el	14856 Jul 05 02:23	16° Ω 24'16	19°42'05
minimum elong	14855 Aug 07 12:30	29° Ω 18'59	2°45'10	retrograde	14856 Jul 12 10:51	20° Ω 32'35	
min. Earth dist.	14855 Aug 09 04:06	27°Ω14'10	0.66315 AU	evening set	14856 Jul 16 05:31	19° Ω 09'50	200.412.0
morning rise	14855 Aug 13 02:37	22° Ω 59'31		inferior conj	14856 Jul 21 13:32	13° Ω 13'21	3°04'30
desc. node	14855 Aug 18 15:24	20° Ω 23'02		minimum elong	14856 Jul 21 14:33	13° Ω 09'57	3°03'36
direct	14855 Aug 19 08:22	20° Ω 21'09		min. Earth dist.	14856 Jul 22 16:52	11° Ω 41'58	0.67683 AU
morning max el	14855 Sep 01 07:45	28° Ω 03′20	26°26'52	morning rise	14856 Jul 26 23:06	6° Ω 48'21	
	14855 Sep 03 04:14	0° m)		direct	14856 Aug 01 18:41	4° Ω 15'49	
	14855 Sep 24 21:56	0∘ ত		desc. node	14856 Aug 04 12:51	4° Ω 44'57	
morning set	14855 Oct 07 04:57	21° ≏ 25'40		morning max el	14856 Aug 13 18:41	11° Ω 27'23	25°08'21
max. Earth dist.	14855 Oct 11 02:55	28° ≏ 57'20	1.34558 AU		14856 Aug 28 15:05	0° m y	
	14855 Oct 11 15:37	0° M			14856 Sep 16 14:27	0∘ ত	
asc. node	14855 Oct 12 22:23	2°M33'16		morning set	14856 Sep 18 15:16	3° ≏ 35'18	
				max. Earth dist.	14856 Sep 22 04:34	10° ഫ 03′01	1.36657 AU
superior conj	14855 Oct 16 04:56	9° ጤ 13'34	0°30'01				
minimum elong	14855 Oct 16 03:22	9° M ₊05'27	0°30'17	superior conj	14856 Sep 28 17:42	22° ≏ 35'47	-0°00'30
evening rise	14855 Oct 23 15:58	24°M52'56		minimum elong	14856 Sep 28 17:43	22° ≗ 35'50	0°00'12
	14855 Oct 26 03:19	0° ∡ ¹		behind sun begin	14856 Sep 28 11:17	22° ₽ 04'07	
evening max el	14855 Nov 11 21:20	26° ∡ ³36′09	21°00'26	behind sun end	14856 Sep 29 00:08	23° ഫ 07'37	
desc. node	14855 Nov 14 11:52	28° ₹ ′54′06		asc. node	14856 Sep 28 19:01	22° ₽ 42'15	
	14855 Nov 16 01:07	0°ರ			14856 Oct 02 10:25	0°M	
retrograde	14855 Nov 23 13:02	2°₹23′21		evening rise	14856 Oct 06 21:26	9° M 04'05	
evening set	14855 Nov 26 02:58	2° ට 07'32		<i>y</i>	14856 Oct 18 05:44	0° ∡ ⊓	
	14855 Dec 01 18:57	30°R <i>X</i> ⁷		evening max el	14856 Oct 24 04:22	7° х ³33'43	19°43'42
inferior conj	14855 Dec 04 23:32	28° ∡ 14'55	-5°29'12	desc. node	14856 Oct 31 09:09	12° х 10'39	-,
minimum elong	14855 Dec 04 15:11	28° ×7 26'47	5°26'41	retrograde	14856 Nov 03 04:51	12°×733'50	
min. Earth dist.	14855 Dec 05 18:01	27° × 48'38	0.54483 AU	evening set	14856 Nov 05 03:44	12° × 23'18	
morning rise	14855 Dec 13 03:41	24° × 22'37	0.54405 AO	inferior conj	14856 Nov 13 22:01	8° x ² 21'13	1 °06'00
direct	14855 Dec 17 07:24	23° x ⁷ 45'33		minimum elong	14856 Nov 13 12:18	8°×736'21	4°02'10
uncet	14855 Dec 30 06:32	25 ス 寸 333		min. Earth dist.	14856 Nov 16 02:18	6° х 5021	0.55223 AU
morning max el	14855 Dec 30 08:52	0° ろ 05'31	22950106		14856 Nov 21 19:13	4° × ⁷ 04'40	0.33223 AU
	14856 Jan 08 22:23	0 30331 12° る 02'43	22 39 00	morning rise		3° ₹ 06'51	
asc. node		0°≈		direct	14856 Nov 26 21:50		24°48'16
. ,	14856 Jan 18 20:50			morning max el	14856 Dec 10 18:02	10° ∡ '01'15	24-48-10
morning set	14856 Jan 22 02:50	6° ≈ 46'59		asc. node	14856 Dec 25 19:35	0° る 20'19	
	14056 1 20 01 16	210 - 42147	1020122		14856 Dec 25 14:51	0°る	
superior conj	14856 Jan 29 01:16	21°≈43'47	1°28'22	morning set	14857 Jan 05 14:47	21° る 29'45	
minimum elong	14856 Jan 29 03:05		1°28'54		14857 Jan 09 12:14	0° ≈	
max. Earth dist.	14856 Feb 01 08:41	28°≈44'03	1.33455 AU				
	14856 Feb 01 23:18	0°)		superior conj	14857 Jan 12 09:12	6° ≈ 20'17	
evening rise	14856 Feb 06 00:02	8° ₩ 08'47		minimum elong	14857 Jan 12 10:02	6° ≈ 24'51	1°37'00
desc. node	14856 Feb 10 11:58	16° ¥ 43′08		max. Earth dist.	14857 Jan 14 09:03	10° ≈ 41'58	1.32158 AU
	14856 Feb 18 03:03	0° Υ		evening rise	14857 Jan 19 17:40	22° ≈ 01'57	
evening max el	14856 Mar 11 13:22	29° Ƴ 54'49	27°15'30		14857 Jan 23 17:56	0° ∀	
	14856 Mar 11 15:31	0° 8		desc. node	14857 Jan 27 08:35	6° ¥ 44'53	
retrograde	14856 Mar 25 02:33	7° 8 25'07			14857 Feb 10 23:13	0° Y	
evening set	14856 Mar 31 18:30	4° 8 54'21		evening max el	14857 Feb 22 01:11	13° Y 02′16	27°34'50
min. Earth dist.	14856 Apr 04 15:26	1° 8 16'52	0.65029 AU	retrograde	14857 Mar 07 21:53	20° Ƴ 30'19	
asc. node	14856 Apr 05 19:07	0° 8 01'06		evening set	14857 Mar 14 18:04	18° Ƴ 08'24	
	14856 Apr 05 19:30	30° ŖƳ		min. Earth dist.	14857 Mar 18 12:28	14° Ƴ 58'56	0.63068 AU
inferior conj	14856 Apr 07 01:12	28° Ƴ 37′20	0°23'41	inferior conj	14857 Mar 21 08:55	12° Y ′09'15	-0°44'50
minimum elong	14856 Apr 07 00:33	28° Y 39'08	0°23'02	minimum elong	14857 Mar 21 10:23	12° Y 05′36	0°44'21
morning rise	14856 Apr 13 08:26	23° Y ′09'28		asc. node	14857 Mar 23 16:33	9° Ƴ 56'27	
direct	14856 Apr 16 01:02	22° Ƴ 31'17		morning rise	14857 Mar 28 05:22	6° Ƴ 56'54	
morning max el	14856 Apr 22 08:44	25° Ƴ 47'40	17°56'17	direct	14857 Mar 30 13:54	6° Ƴ 30′26	
	14856 Apr 26 00:02	$_{0\circ}$ 8		morning max el	14857 Apr 06 02:29	9° Ƴ 49'49	17°46'12
desc. node	14856 May 08 14:05	19° 8 34'10			14857 Apr 19 16:56	9° 8	
morning set	14856 May 10 03:00	22° 8 06'31		morning set	14857 Apr 22 08:13	4° 8 33'23	
	14856 May 14 22:15	$\Pi^{\circ}0$		desc. node	14857 Apr 25 10:48	9° 8 55'19	
	-				<u>*</u>		
superior conj	14856 May 24 06:17	15° Ⅱ 01'30	-1°44'11	superior conj	14857 May 04 15:29	25° 8 25'21	-1°08'35
minimum elong	14856 May 23 21:23	14° Ⅱ 26′13		minimum elong	14857 May 04 08:51	24° 8 58'00	
max. Earth dist.	14856 May 28 02:10	21° I I03'37	1.45602 AU	Ç	14857 May 07 10:43	0°II	
	14856 Jun 02 19:51	0ංම 		max. Earth dist.	14857 May 10 20:05	5° Ⅱ 27'11	1.44573 AU
evening rise	14856 Jun 09 06:49	9° 9 57'06		evening rise	14857 May 19 17:48	19° Ⅲ 22'48	
	14856 Jun 22 13:11	0°Ω			14857 May 26 17:53	0°95	
greatest brilliancy	14856 Jun 23 09:24	1° Ω 14'04	-0.6m		14857 Jun 17 20:48	0° Ω	
asc. node	14856 Jul 02 17:18	13°Ω49'08	~ · ~•	evening max el	14857 Jun 18 03:01	0° Ω 15'42	20°46'02
	02 1/.10	00.700				. 00.0 12	

asc. node	14857 Jun 19 14:12	1° Ω 38'49		evening max el	14858 May 31 22:13	14° © 07'52	22°00'49
retrograde	14857 Jun 26 09:49	5°Ω02'07		asc. node	14858 Jun 06 11:11	18°931'54	22 00 49
evening set	14857 Jun 30 14:56	3° Ω 22'06		retrograde	14858 Jun 10 07:47	19° © 37'53	
e venning see	14857 Jul 03 19:21	30°Rூ		evening set	14858 Jun 15 00:03	17°9541'22	
inferior conj	14857 Jul 05 20:47	27° © 13'59	3°10'19	inferior conj	14858 Jun 20 06:13	11°9523'14	3°05'01
minimum elong	14857 Jul 05 20:48	27°913'55	3°09'23	minimum elong	14858 Jun 20 05:19	11°9526'25	3°03'56
min. Earth dist.	14857 Jul 06 10:23	26°9526'58	0.68593 AU	min. Earth dist.	14858 Jun 20 06:33	11° © 22'05	0.69018 AU
morning rise	14857 Jul 11 02:23	20° © 53'09		morning rise	14858 Jun 25 10:24	5° © 08'45	
direct	14857 Jul 16 10:15	18° © 33'13		direct	14858 Jun 30 05:48	3° 5 06'14	
desc. node	14857 Jul 22 10:15	20°950'36		desc. node	14858 Jul 09 07:33	8° © 15'23	
morning max el	14857 Jul 27 05:15	24° © 59'52	23°40'10	morning max el	14858 Jul 09 17:49	8° 5 40'49	22°11'37
C	14857 Jul 31 17:40	$0^{\circ}\Omega$		Č	14858 Jul 26 09:08	$0^{\circ}\Omega$	
	14857 Aug 22 02:04	0° m)		morning set	14858 Aug 11 19:29	25° Ω 04'37	
morning set	14857 Aug 31 05:18	14° m 50'50			14858 Aug 14 20:06	0° m	
max. Earth dist.	14857 Sep 04 02:29	21° m/31'45	1.39015 AU	max. Earth dist.	14858 Aug 17 03:43	3° m/50'35	1.41359 AU
	14857 Sep 08 20:03	0∘ ⊽			•		
	-			superior conj	14858 Aug 24 23:10	17° m) 17'35	-1°10'57
superior conj	14857 Sep 11 17:12	5° £ 20'11	-0°35'00	minimum elong	14858 Aug 25 04:44	17° m) 42'13	1°10'27
minimum elong	14857 Sep 11 19:44	5° ₽ 32'05	0°34'34		14858 Aug 31 23:14	0∘ ত	
asc. node	14857 Sep 15 15:34	12° ₽ 49'12		asc. node	14858 Sep 02 12:06	2° ₽ 51'01	
evening rise	14857 Sep 20 20:20	22° ≏ 56'12		evening rise	14858 Sep 04 09:17	6° ≙ 21'16	
	14857 Sep 24 12:10	0°M			14858 Sep 18 15:44	0° M	
evening max el	14857 Oct 07 01:06	19°M20'25	18°48'55	evening max el	14858 Sep 20 07:53	1° M 49'52	18°15'35
retrograde	14857 Oct 15 12:37	23°MJ36'41		retrograde	14858 Sep 27 15:54	5°M33'59	
evening set	14857 Oct 17 10:04	23°M24'42		evening set	14858 Sep 29 18:33	5°M16′03	
desc. node	14857 Oct 18 06:31	23°M11'52		desc. node	14858 Oct 05 03:58	2°M14'34	
inferior conj	14857 Oct 25 14:43	19°ML03'58	-2°20'20	inferior conj	14858 Oct 07 05:16	0°M33'49	-0°39'08
minimum elong	14857 Oct 25 08:55	19°M14'26	2°17'22	minimum elong	14858 Oct 07 03:50	0° M ₊36'50	0°38'08
min. Earth dist.	14857 Oct 28 15:24	16°ML53'31	0.56766 AU		14858 Oct 07 21:12	30° ₽ Ω	
morning rise	14857 Nov 02 04:39	14°ML11'51		min. Earth dist.	14858 Oct 10 11:54	27° ≙ 48'57	0.58833 AU
direct	14857 Nov 08 01:45	12°ML48'39		morning rise	14858 Oct 14 09:43	25° ≙ 05'41	
morning max el	14857 Nov 22 06:19	20°ML09'17	26°24'13	direct	14858 Oct 20 19:11	23° ≏ 15'53	
	14857 Nov 30 17:01	0° ∡ ¹			14858 Nov 03 02:29	0° M	
asc. node	14857 Dec 12 16:39	19° ∡ 15'14		morning max el	14858 Nov 04 02:24	0°M56'50	27°30'23
	14857 Dec 18 04:16	ರ°0			14858 Nov 24 22:01	0° ∡ ¹	
morning set	14857 Dec 21 01:26	6° る 04'22		asc. node	14858 Nov 29 13:38	8° ₮ 37'36	
				morning set	14858 Dec 05 09:02	20° ∡ ¹26'35	
superior conj	14857 Dec 27 19:53	21° る 00'57	1°37'50		14858 Dec 09 18:23	ರ°ರ	
minimum elong	14857 Dec 27 19:38	20° る 59'35	1°38'48				
max. Earth dist.	14857 Dec 28 14:57	22° る 47'14	1.31363 AU	superior conj	14858 Dec 12 07:24	5° る 40'24	1°33'32
	14857 Dec 31 21:24	0° ≈		minimum elong	14858 Dec 12 06:10	5° る 33'31	1°34'28
evening rise	14858 Jan 03 18:48	6° ≈ 12'05		max. Earth dist.	14858 Dec 11 23:06	4° る 53'56	1.31088 AU
desc. node	14858 Jan 14 05:16	26° ≈ 24'29		evening rise	14858 Dec 19 01:08	20° る 33'37	
	14858 Jan 16 07:25	0° ∀			14858 Dec 23 14:16	0° ≈	
evening max el	14858 Feb 04 09:02	25°) 30′24	27°21'57	desc. node	14859 Jan 01 02:02	15° ≈ 33'36	
	14858 Feb 09 23:39	0° Υ			14859 Jan 10 23:06	0° ∀	
retrograde	14858 Feb 18 08:41	2° Y 49'50		evening max el	14859 Jan 17 10:04	7°) €08'24	26°34'05
evening set	14858 Feb 25 03:54	0° Υ 44'23		retrograde	14859 Jan 31 09:23	14° ¥ 16′57	
	14858 Feb 26 07:15	30° ₹		evening set	14859 Feb 06 20:32	12°) 34'38	
min. Earth dist.	14858 Feb 28 23:23	27° ¥ 56′11	0.60899 AU	min. Earth dist.	14859 Feb 10 23:40	9° ¥ 57'18	0.58696 AU
inferior conj	14858 Mar 04 02:55	25° ∺ 11′20		inferior conj	14859 Feb 14 03:33	7°) €33'38	
minimum elong	14858 Mar 04 07:27	25° 米 01′24	2°03'03	minimum elong	14859 Feb 14 11:22	7° 米 18'47	3°28'59
asc. node	14858 Mar 10 14:00	20°) 38'39		morning rise	14859 Feb 22 05:24	3° 米 00′58	
morning rise	14858 Mar 11 14:14	20°) 17′23		direct	14859 Feb 24 05:22	2°) (46'58	
direct	14858 Mar 13 16:47	19° ¥ 58'56		asc. node	14859 Feb 25 11:29	2° ¥ 52'42	
morning max el	14858 Mar 20 18:34	23° ¥ 32'01	17°54'18	morning max el	14859 Mar 04 05:22	6°) 44'13	18°21'58
	14858 Mar 25 22:22	0°Υ 17° Ω 5 4140			14859 Mar 18 23:58	0°Υ 1° 0 05313.5	
morning set	14858 Apr 05 09:04	17° Y 54'48		morning set	14859 Mar 19 23:52	1° Y 53'35	
desc. node	14858 Apr 12 07:24	0° 8 24'24			1405035 20 07 17	100000	0007104
	14858 Apr 12 01:54	9° 8		superior conj	14859 Mar 29 07:15	19° ℃ 23'23	0°07'04
	14050 : 1	cot 3 = ···	000015 :	minimum elong	14859 Mar 29 07:45	19° ℃ 25'41	0°06'45
superior conj	14858 Apr 16 00:27	6° 8 54'39		behind sun begin	14859 Mar 29 01:05	18° Y 55'13	
minimum elong	14858 Apr 15 21:48	6° 8 43'11		behind sun end	14859 Mar 29 14:24	19° Y 56′04	
max. Earth dist.	14858 Apr 23 10:27	19° 8 24'46	1.42937 AU	desc. node	14859 Mar 30 03:55	20° Y 57'30	
evening rise	14858 Apr 29 14:53	29° 8 21'18		p 4 5	14859 Apr 04 06:13	0°8	1 40060 : **
	14858 Apr 30 00:43	0°II		max. Earth dist.	14859 Apr 05 20:22	2° 8 44'12	1.40869 AU
	14858 May 20 08:38	0ං ව		evening rise	14859 Apr 10 07:12	10° 8 11'52	

	14859 Apr 22 23:53	0°Щ			14860 Apr 15 22:04	0°П	
evening max el	14859 May 14 13:30	28° I I00'26	23°21'29	evening max el	14860 Apr 26 03:03	11° I I54'06	24°41'39
* · · · · · · · · · · · · · · · · · · ·	14859 May 16 16:28	0ಂಣ		retrograde	14860 May 07 19:35	18° Ⅱ 43'53	
asc. node	14859 May 24 08:18	4°9510'55		asc. node	14860 May 10 05:32	18° Ⅱ 18'48	
retrograde	14859 May 25 03:25	4°9513'43		evening set	14860 May 13 10:54	16° Ⅲ 21'09	
evening set	14859 May 30 07:13	2° © 02'33		min. Earth dist.	14860 May 17 22:33	11° Ⅱ 15′20	0.68422 AU
Č	14859 Jun 01 07:20	30°RⅡ		inferior conj	14860 May 18 23:56	9° Ⅱ 50'44	2°23'08
min. Earth dist.	14859 Jun 04 03:16	26° Ⅲ 20′09	0.68957 AU	minimum elong	14860 May 18 21:50	9° Ⅱ 57'45	2°21'42
inferior conj	14859 Jun 04 15:53	25° Ⅱ 36'36	2°49'17	morning rise	14860 May 24 09:00	3° Ⅱ 52'46	
minimum elong	14859 Jun 04 14:14	25° Ⅱ 42'19	2°48'00	direct	14860 May 28 03:58	2° Ⅱ 30′26	
morning rise	14859 Jun 09 21:12	19° Ⅲ 29'53		morning max el	14860 Jun 04 12:14	6° Ⅱ 34'36	19°40'57
direct	14859 Jun 14 04:08	17° Ⅱ 47'15		desc. node	14860 Jun 12 01:45	15° Ⅱ 43′08	
morning max el	14859 Jun 22 11:28	22° II 32'05	20°50'08	greatest brilliancy	14860 Jun 17 07:20	23° Ⅱ 08'39	-0.6m
desc. node	14859 Jun 26 04:42	26° Ⅲ 38′00			14860 Jun 21 22:20	0 \circ \odot	
	14859 Jun 28 21:33	0 \circ		morning set	14860 Jun 30 13:29	13° © 06'58	
	14859 Jul 19 15:18	$0^{\circ}\Omega$			14860 Jul 11 10:11	$0^{\circ}\Omega$	
morning set	14859 Jul 22 10:35	4° Ω 19'50		max. Earth dist.	14860 Jul 12 00:52	0° Ω 57'57	1.44924 AU
max. Earth dist.	14859 Jul 30 11:22	17° Ω 03'05	1.43404 AU				
				superior conj	14860 Jul 16 15:53	8° Ω 19'43	-2°07'08
superior conj	14859 Aug 06 07:19	28° Ω 17'59		minimum elong	14860 Jul 16 21:29	8° Ω 42'14	2°07'43
minimum elong	14859 Aug 06 14:51	28° Ω 49'38	1°43'42		14860 Jul 29 20:02	0° ™	
	14859 Aug 07 07:33	0° m)		evening rise	14860 Jul 30 10:56	1°m,02'38	
evening rise	14859 Aug 18 07:53	19° m)07'40		asc. node	14860 Aug 06 05:16	12° m 22'08	
asc. node	14859 Aug 20 08:39	22° m/43'26		evening max el	14860 Aug 17 11:07	28° m) 17'28	18°07'50
	14859 Aug 24 12:40	0∘ ⊽			14860 Aug 19 10:51	0∘ ⊽	
evening max el	14859 Sep 03 20:28	14° ≙ 51'52	18°02'18	retrograde	14860 Aug 23 19:55	1° ≏ 38'05	
retrograde	14859 Sep 10 11:51	18° ≏ 17'27		evening set	14860 Aug 26 14:34	0° ჲ 57'32	
evening set	14859 Sep 12 22:03	17° Ω 49'50			14860 Aug 28 04:41	30°R, Mp	
inferior conj	14859 Sep 19 15:45	12° ≏ 47'40	0°44'00	inferior conj	14860 Sep 01 18:21	25° m) 37'55	1°46'07
minimum elong	14859 Sep 19 17:04	12° - 244'29	0°43'38	minimum elong	14860 Sep 01 20:41	25° m 31'29	1°45'12
desc. node	14859 Sep 22 01:27	10° 2 26'54	0.61117.411	min. Earth dist.	14860 Sep 04 09:42	22° Mp 44'42	0.63353 AU
min. Earth dist.	14859 Sep 22 17:48	9° ≏ 48'21	0.61117 AU	desc. node	14860 Sep 07 22:58	19° Mp 26'52	
morning rise	14859 Sep 26 09:11	6° £ 51'08		morning rise	14860 Sep 08 00:47	19° Mp 23'25	
direct	14859 Oct 03 00:40	4° 쇼 37'28	27959112	direct	14860 Sep 14 16:20	16° M 52'43	27947127
morning max el	14859 Oct 17 06:08 14859 Oct 31 03:13	12° ≗ 32'58 0° ™	27°58'13	morning max el	14860 Sep 28 14:52 14860 Oct 03 06:50	24° M 53'23 0° <u>₽</u>	27°47'26
asc. node	14859 Nov 16 10:29	28°M19'18			14860 Oct 23 14:14	0 == 0° M ₊	
asc. Houc	14859 Nov 17 06:37	20 IIC1910 0° √		morning set	14860 Nov 02 07:01	18°M 13'22	
morning set	14859 Nov 19 11:39	4° ∡ ⁷ 31'22		asc. node	14860 Nov 02 07:01	18°Ml14'32	
max. Earth dist.	14859 Nov 25 05:32		1.31347 AU	max. Earth dist.	14860 Nov 07 06:22	28°M32'34	1.32164 AU
max. Latur dist.	140371107 23 03.32	10 × 32 01	1.51547 110	max. Earth dist.	14860 Nov 07 22:43	0° √	1.52104710
superior conj	14859 Nov 26 17:55	20° ₹ 13'22	1°23'20		1.0001.01 07 22.13	• •	
minimum elong	14859 Nov 26 15:57	20°×702'24	1°24'05	superior conj	14860 Nov 10 01:31	4° 尽 34'41	1°07'13
	14859 Dec 01 03:33	0°ਰ		minimum elong	14860 Nov 09 23:12	4° х ⁷ 22'05	1°07'44
evening rise	14859 Dec 03 10:40	5° る 01'21		evening rise	14860 Nov 16 21:36	19° ∡ ³30'47	
Č	14859 Dec 16 10:04	0° ≈		C	14860 Nov 21 22:31	ರ°ರ	
desc. node	14859 Dec 18 22:56	4° ≈ 00'45		desc. node	14860 Dec 04 19:58	21° る 29'59	
evening max el	14859 Dec 30 02:31	17° ≈ 53'26	25°14'41	evening max el	14860 Dec 10 12:40	27° る 59'15	23°35'17
retrograde	14860 Jan 12 22:39	24° ≈ 50′27		-	14860 Dec 12 18:59	0° ≈	
evening set	14860 Jan 18 16:10	23° ≈ 36′12		retrograde	14860 Dec 23 22:51	4° ≈ 39'05	
min. Earth dist.	14860 Jan 23 14:44	20° ≈ 54'20	0.56693 AU	evening set	14860 Dec 28 12:30	3° ≈ 53'47	
inferior conj	14860 Jan 26 07:46	19° ≈ 07'24	-4°54'22	min. Earth dist.	14861 Jan 03 23:33	0° ≈ 48'29	0.55193 AU
minimum elong	14860 Jan 26 16:50	18° ≈ 52'28	4°51'24		14861 Jan 05 08:35	30°Ŗ₹	
morning rise	14860 Feb 03 20:06	14° ≈ 56'42		inferior conj	14861 Jan 05 15:29	29° る 49'50	
direct	14860 Feb 05 23:20	14° ≈ 43′29		minimum elong	14861 Jan 05 20:23	29° る 42'38	5°48'48
asc. node	14860 Feb 12 08:55	16° ≈ 51'13		morning rise	14861 Jan 14 05:53	25° る 56'26	
morning max el	14860 Feb 15 06:51	19° ≈ 15'15	19°11'11	direct	14861 Jan 16 21:48	25° る 39'02	
_	14860 Feb 23 06:57	0° ∀			14861 Jan 26 19:51	0° ≈	
morning set				morning max el	14861 Jan 27 18:59	0° ≈ 53'16	20°23'30
morning set	14860 Mar 03 00:18	16° ¥ 17'02		•			
morning set	14860 Mar 03 00:18 14860 Mar 09 22:37	16° 光 17'02 0° Υ		asc. node	14861 Jan 29 06:19	2° ≈ 23'54	
-	14860 Mar 09 22:37	0° Υ	000015	asc. node	14861 Jan 29 06:19 14861 Feb 14 20:21	2° ≈ 23'54 0° 米	
superior conj	14860 Mar 09 22:37 14860 Mar 11 07:38	0° Υ 2° Υ 39'55	0°38'16	•	14861 Jan 29 06:19	2° ≈ 23'54	
superior conj minimum elong	14860 Mar 09 22:37 14860 Mar 11 07:38 14860 Mar 11 09:49	0°Υ 2°Υ39'55 2°Υ50'27	0°38'16 0°37'58	asc. node morning set	14861 Jan 29 06:19 14861 Feb 14 20:21 14861 Feb 15 06:56	2°≈23'54 0° X 0° X 54'17	1000170
superior conj minimum elong desc. node	14860 Mar 09 22:37 14860 Mar 11 07:38 14860 Mar 11 09:49 14860 Mar 16 00:26	0°Υ 2°Υ39'55 2°Υ50'27 11°Υ31'25	0°37'58	asc. node morning set superior conj	14861 Jan 29 06:19 14861 Feb 14 20:21 14861 Feb 15 06:56 14861 Feb 22 21:06	2°≈23'54 0°₩ 0°₩54'17 16°₩30'28	1°02'59
superior conj minimum elong desc. node max. Earth dist.	14860 Mar 09 22:37 14860 Mar 11 07:38 14860 Mar 11 09:49 14860 Mar 16 00:26 14860 Mar 18 02:50	0°Y 2°Y39'55 2°Y50'27 11°Y31'25 15°Y20'48		asc. node morning set superior conj minimum elong	14861 Jan 29 06:19 14861 Feb 14 20:21 14861 Feb 15 06:56 14861 Feb 22 21:06 14861 Feb 22 23:44	2°≈23'54 0° ₩ 0° ₩54'17 16° ₩30'28 16° ₩43'49	1°02'57
superior conj minimum elong desc. node	14860 Mar 09 22:37 14860 Mar 11 07:38 14860 Mar 11 09:49 14860 Mar 16 00:26	0°Υ 2°Υ39'55 2°Υ50'27 11°Υ31'25	0°37'58	asc. node morning set superior conj	14861 Jan 29 06:19 14861 Feb 14 20:21 14861 Feb 15 06:56 14861 Feb 22 21:06	2°≈23'54 0°₩ 0°₩54'17 16°₩30'28	

desc. node	14861 Mar 02 20:57	2° Y 01'46		minimum elong	14862 Feb 06 22:15	0° ¥ 56'55	1°21'19
evening rise	14861 Mar 04 05:19	4° Υ 30'30		max. Earth dist.	14862 Feb 10 22:34	9° ₩ 14'25	1.34415 AU
evening rise	14861 Mar 19 13:42	0° 8		evening rise	14862 Feb 15 05:20	17°) (41'04	1.54415 AO
evening max el	14861 Apr 08 16:35	25° 8 46'13	25°54'23	desc. node	14862 Feb 17 17:31	22°)(24'42	
evening max er	14861 Apr 13 15:16	0°II	23 3 1 23	dese. Hode	14862 Feb 21 22:46	0° Υ	
retrograde	14861 Apr 21 07:11	3° Ⅱ 00'50			14862 Mar 13 20:14	0°8	
evening set	14861 Apr 27 09:20	0°Щ30′50		evening max el	14862 Mar 22 06:29	9° 8 29'55	26°52'06
asc. node	14861 Apr 27 02:51	0° Ⅱ 44′04		retrograde	14862 Apr 04 13:02	16° 8 56'54	
	14861 Apr 27 23:26	30°₽ ∀		evening set	14862 Apr 11 00:39	14° 8 24'52	
min. Earth dist.	14861 May 01 14:14	26° 8 00'40	0.67431 AU	asc. node	14862 Apr 14 00:15	11° 8 35'22	
inferior conj	14861 May 03 04:21	24° 8 00'39	1°46'07	min. Earth dist.	14862 Apr 15 00:12	10° 8 28'48	0.66016 AU
minimum elong	14861 May 03 02:16	24° 8 07'15	1°44'42	inferior conj	14862 Apr 17 02:52	8° 8 01'08	0°57'23
morning rise	14861 May 08 19:51	18° 8 12'46		minimum elong	14862 Apr 17 01:27	8° 8 05'18	0°56'20
direct	14861 May 12 03:47	17° 8 09'27		morning rise	14862 Apr 23 03:33	2° 8 25'07	
morning max el	14861 May 18 20:12	20° 8 45'08	18°47'04	direct	14862 Apr 26 01:28	1° 8 38'30	
	14861 May 26 07:25	Π $^{\circ}0$		morning max el	14862 May 02 09:57	4° 8 58'20	18°09'53
desc. node	14861 May 29 22:42	5° Ⅱ 19'00		desc. node	14862 May 16 19:33	25° 8 17'19	
greatest brilliancy	14861 Jun 01 19:36	9° ∏ 39'52	-0.8m		14862 May 19 17:58	$\Pi^{\circ}0$	
morning set	14861 Jun 10 00:31	22° ∏ 21'44		morning set	14862 May 21 11:59	2° ∏ 49'04	
	14861 Jun 14 22:17	0°©					
max. Earth dist.	14861 Jun 24 18:47	15° © 21'22	1.45775 AU	superior conj	14862 Jun 05 14:35	26° Ⅱ 49'12	
	14061 7 26 05 42	170607140	2012125	minimum elong	14862 Jun 05 06:45	26° I 18'29	2°00'24
superior conj	14861 Jun 26 05:42	17°937'48		max. Earth dist.	14862 Jun 07 15:09	29° Ⅱ 59'04	1.45886 AU
minimum elong	14861 Jun 26 04:22	17° © 32'35 0° Ω	2*14'34	avanina rias	14862 Jun 07 15:23	0°ഇ 21° ഇ 51'02	
avanina rica	14861 Jul 04 02:23 14861 Jul 11 13:54	11° Ω 55'45		evening rise	14862 Jun 21 16:55 14862 Jun 26 23:21	21 3 31 02	
evening rise	14861 Jul 22 23:08	0°M)		greatest brilliancy	14862 Jul 26 23.21 14862 Jul 03 08:23	0 δι 9° Ω 44'16	-0.7m
asc. node	14861 Jul 24 01:58	1°Mp41'22		asc. node	14862 Jul 10 22:44	20° Ω 33'36	-0.7111
evening max el	14861 Aug 01 00:36	11° m 58'18	18°31'18	evening max el	14862 Jul 15 10:16	20° € 33'30' 25° Ω 46'45	19°11'43
retrograde	14861 Aug 07 11:57	15° m) 27'11	10 31 10	retrograde	14862 Jul 22 08:38	29° Ω 36'54	17 11 43
evening set	14861 Aug 10 15:35	14° mp 31'13		evening set	14862 Jul 25 21:44	28° Ω 23'57	
inferior conj	14861 Aug 16 09:01	8° m 56'10	2°28'59	inferior conj	14862 Jul 31 08:16	22° Ω 34'54	2°55'33
minimum elong	14861 Aug 16 11:15	8° m 49'23	2°28'00	minimum elong	14862 Jul 31 09:49	22° Ω 29'53	2°54'38
min. Earth dist.	14861 Aug 18 10:49	6° Mp 26'09	0.65340 AU	min. Earth dist.	14862 Aug 01 19:42	20° Ω 40′09	0.66957 AU
morning rise	14861 Aug 22 05:44	2° m 32'51		morning rise	14862 Aug 05 21:16	16° Ω 09'23	
desc. node	14861 Aug 25 20:29	0° m 23'56		direct	14862 Aug 11 23:05	13° Ω 32'32	
	14861 Aug 27 10:30	30° R Ω		desc. node	14862 Aug 12 17:58	13° Ω 34'53	
direct	14861 Aug 28 16:19	29° £ 54′26		morning max el	14862 Aug 24 12:59	21° Ω 02'48	25°55'13
	14861 Aug 29 22:51	0° m			14862 Sep 01 07:09	0° m	
morning max el	14861 Sep 11 01:50	7° ™ 47'21	27°03'42		14862 Sep 21 12:30	0∘ ⊽	
	14861 Sep 28 08:05	0∘ ⊽		morning set	14862 Sep 29 12:10	14° ≏ 01'17	
	14861 Oct 15 22:23	0°M		max. Earth dist.	14862 Oct 03 04:56	20° ≏ 58'07	1.35410 AU
morning set	14861 Oct 16 16:22	1°M26'25		asc. node	14862 Oct 07 00:34	28° ≏ 26'36	
asc. node	14861 Oct 20 03:57	8°M18'36			14862 Oct 07 19:13	0° M	
max. Earth dist.	14861 Oct 20 22:30	9°M52'29	1.33536 AU				
	14061 0 4 25 04 00	100 M 20102	0045115	superior conj	14862 Oct 08 22:39	2°M18'34	0°17'41
superior conj	14861 Oct 25 04:00	18°M39'03	0°45'15	minimum elong	14862 Oct 08 21:38	2°M13'25 18°M16'14	0°17'56
minimum elong	14861 Oct 25 01:56 14861 Oct 30 11:29	18°ML28'09 0° <i>⊼</i> 1	0°45'34	evening rise	14862 Oct 16 16:00 14862 Oct 22 12:51	10 116 14 0° √	
evening rise	14861 Nov 01 08:05	3° ∡ 757'48		evening max el	14862 Nov 03 23:18	0 x 18° x 29'40	20°25'07
evening rise	14861 Nov 15 10:57	0°る		desc. node	14862 Nov 08 14:21	22° 🖈 08'25	20 23 07
desc. node	14861 Nov 21 17:06	7° 云 41'09		retrograde	14862 Nov 14 22:18	23° × 56'47	
evening max el	14861 Nov 22 00:38	7° る 59'50	21°53'35	evening set	14862 Nov 17 04:07	23° х 44'08	
retrograde	14861 Dec 04 11:33	14° ට 09'36		inferior conj	14862 Nov 26 01:24	19° ∡ ¹48'53	-4°58'45
evening set	14861 Dec 07 17:04	13° る 46'19		minimum elong	14862 Nov 25 15:31	20° ∡ 03'19	4°55'22
inferior conj	14861 Dec 16 09:03	9° ප 54'11	-5°54'36	min. Earth dist.	14862 Nov 27 11:30	18° ∡ 59′02	0.54694 AU
minimum elong	14861 Dec 16 04:55	9° る 59'58	5°53'16	morning rise	14862 Dec 04 02:31	15° ∡ ¹48'49	
min. Earth dist.	14861 Dec 16 05:26	9° ප 59'15	0.54481 AU	direct	14862 Dec 08 16:41	15° ∡ 03'30	
morning rise	14861 Dec 24 17:36	6° පි 06'40		morning max el	14862 Dec 22 03:10	21° ∡ ³38′20	23°45'57
direct	14861 Dec 28 07:36	5° る 38'23			14862 Dec 29 07:51	0°ප	
morning max el	14862 Jan 09 16:18	11° る 35'51	21°57'41	asc. node	14863 Jan 03 00:51	7° ට 03'31	
asc. node	14862 Jan 16 03:38	19° る 13'56		morning set	14863 Jan 15 05:05	0° ≈ 22'29	
	14862 Jan 22 19:56	0° ≈			14863 Jan 15 00:53	0° ≈	
morning set	14862 Jan 30 17:14	15°≈38'08					
	14862 Feb 06 11:26	0° ∀		superior conj	14863 Jan 22 01:16	15°≈14'57	1°32'26
	140/0 F 1 0/ 10 T	001/4=	1020150	minimum elong	14863 Jan 22 02:42	15°≈22'40	1°33'07
superior conj	14862 Feb 06 19:58	0°) 44′59	1°20'59	max. Earth dist.	14863 Jan 24 18:57	21° ≈ 07'59	1.32848 AU

	14863 Jan 29 01:25	0° ∀		morning max el	14863 Dec 03 12:52	1° ∡ ³35'15	25°31'57
evening rise	14863 Jan 29 17:23	1° ¥ 20′18		asc. node	14863 Dec 20 21:58	25° ∡ ′38′04	
desc. node	14863 Feb 04 14:08	12°) ₹35'36			14863 Dec 23 07:00	ರ°ರ	
	14863 Feb 14 21:41	0° Υ		morning set	14863 Dec 30 16:40	15° る 02'15	
evening max el	14863 Mar 04 19:37	22° Y ′54'01	27°27'23				
	14863 Mar 15 16:09	0° ႘		superior conj	14864 Jan 06 10:35	29° る 53'36	1°37'37
retrograde	14863 Mar 18 12:18	0° 8 23'27		minimum elong	14864 Jan 06 10:58	29° る 55'41	1°38'31
	14863 Mar 21 05:47	30° ₹Ƴ			14864 Jan 06 11:44	0° ≈	
evening set	14863 Mar 25 06:41	27° Y ′55'42		max. Earth dist.	14864 Jan 07 22:06	3° ≈ 09'40	1.31755 AU
min. Earth dist.	14863 Mar 29 02:18	24° Y 30'50	0.64229 AU	evening rise	14864 Jan 13 14:27	15° ≈ 20'52	
inferior conj	14863 Mar 31 16:51	21° Y 45'36	-0°03'51		14864 Jan 21 02:00	0° ∀	
minimum elong	14863 Mar 31 16:58	21° Y 45'17	0°04'04	desc. node	14864 Jan 22 10:46	2°) 28'42	
transit middle	14863 Mar 31 16:58	21° Y 45'17	0°04'04		14864 Feb 09 20:58	0° Y	
transit begin	14863 Mar 31 13:58	21° Y 53'15		evening max el	14864 Feb 15 05:53	5° Y 45'24	27°33'31
transit end	14863 Mar 31 19:58	21° Y '37'19		retrograde	14864 Feb 29 04:02	13° Y 10′26	
asc. node	14863 Mar 31 21:40	21° Y '32'49		evening set	14864 Mar 07 00:46	10° Y 54'16	
morning rise	14863 Apr 07 05:24	16° Y 23′56		min. Earth dist.	14864 Mar 10 18:54		0.62159 AU
direct	14863 Apr 09 18:31	15° Y ′51′00		inferior conj	14864 Mar 13 19:08	5° Y 05'32	
morning max el	14863 Apr 16 03:06	19° Y ′07'01	17°49'53	minimum elong	14864 Mar 13 21:49	4° Υ 59'13	1°16'31
	14863 Apr 24 07:07	0° 8		asc. node	14864 Mar 17 19:08	1° Y 40′18	
morning set	14863 May 03 03:10	14° 8 36'28		morning rise	14864 Mar 20 21:48	0° Y 00′59	
desc. node	14863 May 03 16:18	15° 8 31'43			14864 Mar 20 23:00	30° ₹	
	14863 May 12 09:17	Π °0		direct	14864 Mar 23 03:33	29°) 38′20	
					14864 Mar 25 07:25	0° Υ	
superior conj	14863 May 16 11:38	6° Ⅱ 38'39		morning max el	14864 Mar 29 20:36	3° Y ′01'58	17°47'28
minimum elong	14863 May 16 03:14	6° Ⅱ 04'50		morning set	14864 Apr 14 17:26	27° Y ′28′27	
max. Earth dist.	14863 May 21 11:09	14° ∏ 34'25	1.45248 AU		14864 Apr 16 03:44	0°8	
	14863 May 31 09:25	0°©		desc. node	14864 Apr 19 12:56	5° 8 56'33	
evening rise	14863 Jun 01 05:19	1°9516'14				01 . 2 . 0	
	14863 Jun 20 16:25	0°N		superior conj	14864 Apr 26 06:53	17° 8 30'31	
asc. node	14863 Jun 27 19:36	8° Ω 49'58	20007120	minimum elong	14864 Apr 26 01:56	17° 8 09'42	
evening max el	14863 Jun 28 14:23	9° Ω 38'13	20°07'38	max. Earth dist.	14864 May 03 03:53	28° ႘ 49'05 0° Ⅱ	1.43935 AU
retrograde	14863 Jul 06 07:27	14°Ω01'31 12°Ω31'08			14864 May 03 21:31	10° Д 51'33	
evening set	14863 Jul 10 06:35 14863 Jul 15 13:19	6°Ω29'24	3°08'22	evening rise	14864 May 10 18:52 14864 May 23 12:24	0° ©	
inferior conj minimum elong	14863 Jul 15 13:55	$6^{\circ}\Omega^{29}^{24}$	3°07'29	evening max el	14864 Jun 10 12:27	0 S 23°S29'27	21°16'42
min. Earth dist.	14863 Jul 16 10:39	5° Ω 16'51	0.68131 AU	asc. node	14864 Jun 13 16:34	26°\$17'33	21 1042
morning rise	14863 Jul 20 20:55	0°Ω06'00	0.08131 AU	retrograde	14864 Jun 19 06:19	28°\$34'32	
morning risc	14863 Jul 20 23:38	30°RS		evening set	14864 Jun 23 16:05	26°\$47'14	
direct	14863 Jul 26 11:37	27° © 38'24		inferior conj	14864 Jun 28 21:45	20°534'22	3°09'22
desc. node	14863 Jul 30 15:23	28°5944'32		minimum elong	14864 Jun 28 21:22	20°535'42	3°08'23
dese. Hode	14863 Aug 01 17:56	0° Ω		min. Earth dist.	14864 Jun 29 05:35	20°507'04	0.68830 AU
morning max el	14863 Aug 06 23:44	_	24°31'30	morning rise	14864 Jul 04 02:26	14°9515'55	0.00030710
morning man er	14863 Aug 26 14:21	0° m)	2.3130	direct	14864 Jul 09 04:55	12° © 03'11	
morning set	14863 Sep 11 14:22	25° m/49'06		desc. node	14864 Jul 16 12:42	15° © 26'40	
5 5 5	14863 Sep 13 23:15	0∘ <u>⊽</u>		morning max el	14864 Jul 19 11:00	18° © 08'29	23°02'05
max. Earth dist.	14863 Sep 15 04:40		1.37652 AU		14864 Jul 29 08:58	0°N	
	· · · · · ·				14864 Aug 18 16:25	0° m)	
superior conj	14863 Sep 22 06:14	15° ≏ 25'44	-0°14'46	morning set	14864 Aug 22 18:39	6° m/39′39	
minimum elong	14863 Sep 22 07:12	15° ≏ 30'28	0°14'25	max. Earth dist.	14864 Aug 27 03:20	14° Mp 00'20	1.40031 AU
behind sun begin	14863 Sep 22 04:08	15° ≙ 15'38			-	•	
behind sun end	14863 Sep 22 10:16	15° ≏ 45'19		superior conj	14864 Sep 03 22:48	27° m 51'17	-0°50'18
asc. node	14863 Sep 23 21:09	18° ≏ 35′09		minimum elong	14864 Sep 04 02:37	28°M)08'46	0°49'48
	14863 Sep 29 14:57	0° M			14864 Sep 05 02:47	0∘ ⊽	
evening rise	14863 Sep 30 19:02	2°M20'26		asc. node	14864 Sep 09 17:43	8° ≏ 40'33	
evening max el	14863 Oct 17 12:19	29° M 47'35	19°17'33	evening rise	14864 Sep 13 14:12	16° ഫ 02'33	
	14863 Oct 17 17:19	0° ∡ 7			14864 Sep 21 03:11	0° M	
desc. node	14863 Oct 26 11:39	4° ≯ °28′03		evening max el	14864 Sep 29 13:48	11°M53'44	18°32'09
retrograde	14863 Oct 26 20:16	4° ∡ °28′27		retrograde	14864 Oct 07 12:33	15°M54'59	
evening set	14863 Oct 28 17:17	4° ∡ 17'54		evening set	14864 Oct 09 11:32	15° ™ 41'06	
inferior conj	14863 Nov 06 06:42	0° ₰ 08'07		desc. node	14864 Oct 12 09:02	14° M 34'21	
minimum elong	14863 Nov 05 22:19	0° ∡ ′21'59	3°18'16	inferior conj	14864 Oct 17 08:44	11° M 11'25	-1°35'44
	14863 Nov 06 11:35	30°RM		minimum elong	14864 Oct 17 04:55	11° M 18'47	1°33'36
min. Earth dist.	14863 Nov 08 21:18	28° ™ 24'46	0.55799 AU	min. Earth dist.	14864 Oct 20 13:34	8° M 43'48	0.57596 AU
morning rise	14863 Nov 14 01:00	25° ™ 37'08		morning rise	14864 Oct 24 18:50	6° ™ 02'58	
direct	14863 Nov 19 11:53	24°M29'18		direct	14864 Oct 30 21:49	4°M28'19	
	14863 Dec 01 18:43	0° ∡		morning max el	14864 Nov 14 04:30	11°M59'14	26°56'45

	14964 Nov. 29, 06:00	0° ∡ ¹		min. Earth dist.	14965 Oat 02 14:05	20° ჲ 07'06	0.59796 AU
asc. node	14864 Nov 28 06:09 14864 Dec 06 18:59	0 x . 14° x 45'57		morning rise	14865 Oct 02 14:05 14865 Oct 06 08:03	20 ≥ 07 00 17° ♀ 19'39	0.39790 AU
morning set	14864 Dec 14 02:16	29° 🗷 32'50		direct	14865 Oct 12 21:04	17 = 1939 15° • 18'39	
morning set	14864 Dec 14 07:20	29 ス 32 30		morning max el	14865 Oct 27 03:53	23° ♀ 07'05	27°47'00
	14004 DCC 14 07.20	0 0		morning max cr	14865 Nov 02 07:46	0°ML	27 47 00
superior conj	14864 Dec 20 21:53	14° ♂ 35'08	1°36'44		14865 Nov 21 10:25	0° ∡ 7	
minimum elong	14864 Dec 20 21:12	14° る 31'19	1°37'42	asc. node	14865 Nov 23 15:54	4° ∡ 17'28	
max. Earth dist.	14864 Dec 21 05:17	15° ට 16'31	1.31175 AU	morning set	14865 Nov 28 08:00	13° ∡ 48'26	
evening rise	14864 Dec 27 18:03	29° ට 36'55		max. Earth dist.	14865 Dec 04 13:00	27° ∡ 20′08	1.31129 AU
Č	14864 Dec 27 22:24	0° ≈					
desc. node	14865 Jan 08 07:30	21° ≈ 56'56		superior conj	14865 Dec 05 09:14	29° ∡ 12'58	1°29'56
	14865 Jan 13 05:59	0° ∀		minimum elong	14865 Dec 05 07:39	29° ∡ ¹04'07	1°30'48
evening max el	14865 Jan 27 10:56	17° ¥ 52'58	27°05'50	-	14865 Dec 05 17:39	0°ರ	
retrograde	14865 Feb 10 11:06	25° ₩ 08'56		evening rise	14865 Dec 12 02:00	14° ට 02'02	
evening set	14865 Feb 17 03:49	23° ¥ 12′21			14865 Dec 19 23:14	0° ≈	
min. Earth dist.	14865 Feb 21 01:19	20°) 30′21	0.59947 AU	desc. node	14865 Dec 26 04:20	10° ≈ 49'57	
inferior conj	14865 Feb 24 06:12	17° ¥ 52′08	-2°41'40	evening max el	14866 Jan 09 08:30	29° ≈ 08'38	26°03'45
minimum elong	14865 Feb 24 12:11	17° ∺ 39'46	2°39'04		14866 Jan 10 06:46	0° ∀	
morning rise	14865 Mar 03 23:57	13° ∺ 07'17		retrograde	14866 Jan 23 07:22	6° 升 12'32	
asc. node	14865 Mar 04 16:34	12°) 58′19		evening set	14866 Jan 29 11:57	4°) 42′06	
direct	14865 Mar 06 00:43	12° 米 51′18		min. Earth dist.	14866 Feb 02 21:44	2°) €04'35	0.57800 AU
morning max el	14865 Mar 13 11:01	16°) 33'31	18°03'37	inferior conj	14866 Feb 05 22:25	29° ≈ 54'58	-4°08'42
	14865 Mar 22 21:41	0° Y		minimum elong	14866 Feb 06 07:12	29° ≈ 39'15	4°05'23
morning set	14865 Mar 29 00:50	11° Y 07'33			14866 Feb 05 19:37	30° R ≈	
desc. node	14865 Apr 06 09:31	26° Y 27'57		morning rise	14866 Feb 14 05:28	25° ≈ 31'28	
				direct	14866 Feb 16 05:46	25° ≈ 18′21	
superior conj	14865 Apr 08 01:38	29° Y 26'41		asc. node	14866 Feb 19 14:01	25° ≈ 56'36	
minimum elong	14865 Apr 08 00:29	29° Y 21'37	0°13'45	morning max el	14866 Feb 24 18:21	29° ≈ 29'38	18°40'06
behind sun begin	14865 Apr 07 20:29	29° Y 03′50			14866 Feb 25 06:26	0° ∀	
behind sun end	14865 Apr 08 04:30	29° Y 39′22		morning set	14866 Mar 12 20:13	25°) 18′12	
	14865 Apr 08 09:10	0°8			14866 Mar 15 06:16	0° Υ	
max. Earth dist.	14865 Apr 15 15:45	12° 8 29'15	1.42093 AU		1406634 21 1627	100001 (155	0001100
evening rise	14865 Apr 20 23:27	21° 8 10'49		superior conj	14866 Mar 21 16:27	12° Y 16'57	0°21'03
	14865 Apr 26 14:18	0°II		minimum elong	14866 Mar 21 17:50	12° Y 23'27	0°20'42
	14865 May 17 18:28	0°©	22024147	desc. node	14866 Mar 24 06:03	17° ℃ 01'46	1 20016 ATT
evening max el	14865 May 24 05:37	7°921'12	22°34'46	max. Earth dist.	14866 Mar 28 23:37	25° Y 29'05	1.39916 AU
asc. node	14865 May 31 13:37 14865 Jun 03 03:33	12°5641'08 13°5610'40		avanina risa	14866 Mar 31 14:29	0° と 2° と 25'38	
retrograde evening set	14865 Jun 08 00:34	13 \$31040 11°\$07'48		evening rise	14866 Apr 02 00:57 14866 Apr 19 20:34	2 O 23 38 0° Ⅱ	
inferior conj	14865 Jun 13 07:32	4°945'52	2°59'38	evening max el	14866 May 06 20:05	21° I I15'00	23°56'11
minimum elong	14865 Jun 13 06:17	4°950'15	2°58'27	retrograde	14866 May 17 21:48	27° I I44'42	23 30 11
min. Earth dist.	14865 Jun 13 02:22	5° © 03'52	0.69047 AU	asc. node	14866 May 18 10:47	27° I I43'25	
iiiii. Lattii dist.	14865 Jun 17 00:25	30°RⅡ	0.07047 AC	evening set	14866 May 23 06:27	25° I I28'28	
morning rise	14865 Jun 18 11:51	28° I I34'17		min. Earth dist.	14866 May 27 22:48	20° I I01'32	0.68784 AU
direct	14865 Jun 23 01:52	26° I 39'59		inferior conj	14866 May 28 16:47	19° Ⅱ 00'17	2°39'31
	14865 Jun 30 00:38	0°ಅ		minimum elong	14866 May 28 14:53	19° Ⅱ 06'45	2°38'09
morning max el	14865 Jul 02 01:20		21°35'39	morning rise	14866 Jun 02 23:20	12° Ⅱ 57'00	
desc. node	14865 Jul 03 09:56	3° © 17'58		direct	14866 Jun 07 01:10	11° Ⅱ 22'49	
	14865 Jul 23 05:29	$0^{\circ}\Omega$		morning max el	14866 Jun 14 21:44	15° Ⅱ 48'54	20°18'57
morning set	14865 Aug 02 22:27	16° Ω 26'55		desc. node	14866 Jun 20 07:04	22° I I00'18	
max. Earth dist.	14865 Aug 09 06:28	26° Ω 39'58	1.42277 AU		14866 Jun 26 04:55	0ංම	
	14865 Aug 11 06:47	0° m)		morning set	14866 Jul 13 06:19	25° © 24'32	
					14866 Jul 16 05:26	$0^{\circ}\Omega$	
superior conj	14865 Aug 16 19:58	9° m 25'28	-1°25'39	max. Earth dist.	14866 Jul 22 16:50	10° Ω 12'43	1.44124 AU
minimum elong	14865 Aug 17 02:38	9° m 54′20	1°25'13				
evening rise	14865 Aug 27 21:39	29° m 12'36		superior conj	14866 Jul 28 18:08	20° Ω 01′23	-1°55'21
asc. node	14865 Aug 27 14:16	28° m 38'58		minimum elong	14866 Jul 29 01:30	20° Ω 31'42	1°55'29
	14865 Aug 28 08:03	0∘ ⊽			14866 Aug 03 17:37	0° ™	
evening max el	14865 Sep 12 23:38	24° £ 38'54	18°07'37	evening rise	14866 Aug 10 12:36	11° m)39'01	
retrograde	14865 Sep 19 23:15	28° ≙ 13'11		asc. node	14866 Aug 14 10:52	18° m 26'36	
evening set	14865 Sep 22 04:57	27° £ 51'36			14866 Aug 21 11:08	0∘ ⊽	
inferior conj	14865 Sep 29 08:11	23° ♀ 00'58		evening max el	14866 Aug 27 13:40	7° ≙ 53'08	18°02'28
minimum elong	14865 Sep 29 08:09	23° ⊆ 01'02		retrograde	14866 Sep 03 00:52	11° ≏ 14'37	
transit middle	14865 Sep 29 08:09	23° ₽ 01'02	0°01'01	evening set	14866 Sep 05 14:44	10° £ 41'42	1010:10
transit begin	14865 Sep 29 04:47	23° £ 08'35		inferior conj	14866 Sep 12 02:05	5° £ 31'50	1°12'49
transit end	14865 Sep 29 11:30	22° £ 53'29		minimum elong	14866 Sep 12 04:00	5° £ 26'53	1°12'09
desc. node	14865 Sep 29 06:31	23° ≙ 04'43		min. Earth dist.	14866 Sep 15 00:06	2° ≏ 32'58	0.62091 AU

desc. node	14866 Sep 16 04:01	1° ≏ 26'40		minimum elong	14867 Aug 26 12:40	18° ™ 27'56	2°05'29
	14866 Sep 17 20:53	30°R, Mp		min. Earth dist.	14867 Aug 28 19:54	15° m 50'04	0.64235 AU
morning rise	14866 Sep 18 14:47	29° m 26'47		morning rise	14867 Sep 01 12:22	12° m 15'41	
direct	14866 Sep 25 07:08	27° m) 04'54		desc. node	14867 Sep 03 01:33	11° m) 10'43	
	14866 Oct 03 09:51	0∘ ⊽		direct	14867 Sep 08 02:14	9° m) 40'56	
mamina may al	14866 Oct 09 09:57	ა _ 5° ჲ 03'03	27050105		•		27°32'31
morning max el			27 3803	morning max el	14867 Sep 21 20:03		27 32 31
	14866 Oct 28 04:21	0° ™			14867 Oct 02 04:18	0∘ 亚	
asc. node	14866 Nov 10 12:44	24°M06'00			14867 Oct 21 01:17	0° M	
morning set	14866 Nov 12 07:51	27° M 44'31		morning set	14867 Oct 26 23:20	11° M .15'04	
	14866 Nov 13 10:04	0° ∡ ¹		asc. node	14867 Oct 28 09:29	14° M 05'37	
max. Earth dist.	14866 Nov 17 17:37	9° ∡ 12′28	1.31635 AU	max. Earth dist.	14867 Oct 31 15:18	20°M45'29	1.32688 AU
superior conj	14866 Nov 19 18:48	13° ∡ ′42′10	1°17'13	superior conj	14867 Nov 04 00:30	27°M56'56	0°58'37
minimum elong	14866 Nov 19 16:37	13° ₹ 30'09	1°17'53	minimum elong	14867 Nov 03 22:12	27°M44'36	0°59'02
_			1 1/33	minimum clong		27 11644 30 0° √ 1	0 3902
evening rise	14866 Nov 26 12:25	28° ₹ 31'45			14867 Nov 04 23:18		
	14866 Nov 27 04:48	0°ಕ		evening rise	14867 Nov 10 23:24	13° ∡ ′01′01	
desc. node	14866 Dec 13 01:17	28° る 54'48			14867 Nov 19 10:42	0°ಕ	
	14866 Dec 13 19:37	0° ≈		desc. node	14867 Nov 29 22:22	15° る 53'56	
evening max el	14866 Dec 21 21:55	9° ≈ 35'00	24°33'48	evening max el	14867 Dec 03 07:31	19° る 33'37	22°51'09
retrograde	14867 Jan 04 14:38	16° ≈ 24'44		retrograde	14867 Dec 16 09:18	26° පි 02'40	
evening set	14867 Jan 09 21:34	15° ≈ 23'13		evening set	14867 Dec 20 09:27	25° る 27'43	
min. Earth dist.	14867 Jan 15 09:41	12°≈33'50	0.55985 AU	min. Earth dist.	14867 Dec 27 16:29	22° る 06'56	0.54786 AU
	14867 Jan 17 17:39					22 3 0030 21° る 30'29	
inferior conj		11°≈06'45		inferior conj	14867 Dec 28 18:07		
minimum elong	14867 Jan 18 01:46	10° ≈ 54′06	5°20'27	minimum elong	14867 Dec 28 19:25	21° る 28'39	5°58'28
morning rise	14867 Jan 26 08:00	7° ≈ 04'02		morning rise	14868 Jan 06 06:45	17° る 41'55	
direct	14867 Jan 28 15:35	6° ≈ 49'36		direct	14868 Jan 09 07:19	17° る 20'47	
asc. node	14867 Feb 06 11:26	10° ≈ 36'48		morning max el	14868 Jan 20 20:12	22° る 53'02	21°01'12
morning max el	14867 Feb 07 14:26	11° ≈ 38'40	19°39'01	asc. node	14868 Jan 24 08:47	26° る 44'58	
	14867 Feb 19 23:40	0° ∀			14868 Jan 26 19:40	0° ≈	
morning set	14867 Feb 24 23:38	9°) 48'44		morning set	14868 Feb 09 08:09	24° ≈ 30'31	
morning set	1400/100 24 25.50) / (4044		morning set	14868 Feb 11 23:12	0° \	
	140(7.)4 04 22 52	2501/40106	0040125		14000 100 11 23.12	0 /	
superior conj	14867 Mar 04 22:52	25°) 49'06	0°49'35				
minimum elong	14867 Mar 05 01:22	26° 米 01′26	0°49'22	superior conj	14868 Feb 16 16:48	9° ¥ 51'57	
	14867 Mar 07 02:21	0° Y		minimum elong	14868 Feb 16 19:21	10° 米 05′07	
desc. node	14867 Mar 11 02:34	7° Ƴ 34'33		max. Earth dist.	14868 Feb 21 15:24	19°) 4 8′14	1.35500 AU
max. Earth dist.	14867 Mar 11 06:11	7° Y 51'14	1.37640 AU	evening rise	14868 Feb 25 14:34	27° ∺ 23′03	
evening rise	14867 Mar 14 22:58	14° Y 32'27		desc. node	14868 Feb 25 23:07	28° ₩ 02'47	
C	14867 Mar 24 03:50	0°8			14868 Feb 27 00:33	0° Y	
	14867 Apr 14 15:02	0°II			14868 Mar 16 12:05	0°8	
evening max el	14867 Apr 19 09:38	5°∏09'00	25014'03	evening max el	14868 Mar 31 23:15	18° 8 58'45	26°21'07
•	•		23 14 03	Č		_	20 21 07
retrograde	14867 May 01 11:56	12° Ⅱ 10'05		retrograde	14868 Apr 13 21:10	26° 8 20'06	
asc. node	14867 May 05 08:03	11° ∏ 08'09		evening set	14868 Apr 20 03:45	23° 8 48'13	
evening set	14867 May 07 08:05	9° Ⅱ 43'41		asc. node	14868 Apr 21 05:23	22° 8 51'32	
min. Earth dist.	14867 May 11 16:44	4° Ⅱ 53'22	0.68056 AU	min. Earth dist.	14868 Apr 24 06:07	19° 8 33'08	0.66881 AU
inferior conj	14867 May 12 23:32	3° Ⅲ 13′02	2°08'49	inferior conj	14868 Apr 26 01:43	17° 8 20'03	1°26'56
minimum elong	14867 May 12 21:22	3° Ⅱ 20′06	2°07'22	minimum elong	14868 Apr 25 23:49	17° 8 25'52	1°25'37
•	14867 May 15 13:42	30° Ŗ ႘		morning rise	14868 May 01 20:49	11° 8 37'17	
morning rise	14867 May 18 11:00	27° 8 19'19		direct	14868 May 05 00:22	10° 8 41'28	
direct	14867 May 22 01:15	26° 8 05'08		morning max el	14868 May 11 12:25	14° 8 08'40	18°29'14
morning max el	14867 May 29 01:37	29° 8 55'11	19°16'06	morning max or	14868 May 23 07:48	0°Ⅱ	10 27 17
morning max er			19 10 00	1 1	-		
	14867 May 29 03:35	0°II		desc. node	14868 May 24 00:59	1° I I06'10	
desc. node	14867 Jun 07 04:05	11° Ⅱ 19'33		morning set	14868 Jun 01 06:16	13° Ⅱ 59'12	
greatest brilliancy	14867 Jun 10 19:42	16° Ⅲ 38'49	-0.7m		14868 Jun 11 11:06	0 \circ	
	14867 Jun 19 15:19	0 \circ \odot					
morning set	14867 Jun 22 10:04	4° © 16'22		superior conj	14868 Jun 17 03:05	8° 9 50'35	-2°10'12
max. Earth dist.	14867 Jul 05 09:05	24°923'53	1.45374 AU	minimum elong	14868 Jun 16 22:27	8°932'34	2°11'02
				max. Earth dist.	14868 Jun 17 04:28		1.45913 AU
superior conj	14867 Jul 08 17:30	29° © 40'55	-2°12'16		14868 Jun 30 15:24	0° Ω	
		29° 9 53'17		avanina rica	14868 Jul 02 22:09	3° Ω 35'45	
minimum elong	14867 Jul 08 20:38		2 13 07	evening rise			0.0-
	14867 Jul 08 22:19	0 ° Ω		greatest brilliancy	14868 Jul 11 14:09	17° Ω 13'22	-0.8m
evening rise	14867 Jul 23 05:47	23° Ω 08'30		asc. node	14868 Jul 18 04:16	27° Ω 06'41	
	14867 Jul 27 09:44	0° ™			14868 Jul 20 06:41	0° m	
asc. node	14867 Aug 01 07:32	7° m 57'49		evening max el	14868 Jul 24 16:12	5° m 10'17	18°46'25
evening max el	14867 Aug 11 04:10	21°M)25'58	18°15'40	retrograde	14868 Jul 31 07:22	8° M 47'05	
retrograde	14867 Aug 17 12:54	24° m 48'32		evening set	14868 Aug 03 14:53	7° m) 44'04	
evening set	14867 Aug 20 11:22	24° mp 01'33		inferior conj	14868 Aug 09 04:58	2° m/02'42	2°42'03
inferior conj	14867 Aug 26 10:16	18° Mp 34'51	2°06'27	minimum elong	14868 Aug 09 06:58	1° m) 56'27	2°41'07
crioi conj	1100, 11ug 20 10.10	ו עדיל אווי פו	2 0021	mmmum clong	11000 11ug 07 00.30	1 11/202/	2 110/

	14868 Aug 10 20:14	30° ₽.Ω		retrograde	14869 Jul 15 05:13	23° Ω 03'32	
min. Earth dist.	14868 Aug 11 00:38	29° Ω 46'31	0.66073 AU	evening set	14869 Jul 18 22:24	21° Ω 43'25	
morning rise	14868 Aug 14 22:06	25° Ω 37'30		inferior conj	14869 Jul 24 06:59	15° Ω 48'53	3°02'32
desc. node	14868 Aug 19 23:03	23° Ω 04'44		minimum elong	14869 Jul 24 08:09	15° Ω 45'02	3°01'38
direct	14868 Aug 21 05:09	22° Ω 58'49		min. Earth dist.	14869 Jul 25 12:27	14° Ω 11'09	0.67509 AU
	14868 Sep 02 13:33	0° m)		morning rise	14869 Jul 29 17:22	9° Ω 23'37	
morning max el	14868 Sep 03 07:30	0° Mp 44'36	26°37'06	direct	14869 Aug 04 14:40	6° Ω 49'37	
	14868 Sep 25 04:34	0∘ ত		desc. node	14869 Aug 06 20:29	7° Ω 08'53	
morning set	14868 Oct 09 03:24	24° ₽ 13'09		morning max el	14869 Aug 16 18:27	14° Ω 06'40	25°20'52
	14868 Oct 12 03:24	0° M .		-	14869 Aug 29 17:25	0° m)	
max. Earth dist.	14868 Oct 13 03:20	1°ML58'03	1.34273 AU		14869 Sep 17 23:48	0° ح	
asc. node	14868 Oct 14 06:09	4° M .11'54		morning set	14869 Sep 21 16:17	6° ≏ 29'47	
				max. Earth dist.	14869 Sep 25 05:54	13° ≏ 02'16	1.36320 AU
superior conj	14868 Oct 17 23:58	11° M 51'24	0°34'13	asc. node	14869 Oct 01 02:45	24° ≏ 20'54	
minimum elong	14868 Oct 17 22:15	11°ML42'25	0°34'29				
evening rise	14868 Oct 25 09:02	27° M 24'58		superior conj	14869 Oct 01 14:22	25° ≏ 18'32	0°04'28
	14868 Oct 26 14:42	0° ∡ ¹		minimum elong	14869 Oct 01 14:04	25° ≏ 17'04	0°04'44
evening max el	14868 Nov 13 22:59	29° ∡¹ 42'40	21°13'42	behind sun begin	14869 Oct 01 07:57	24° ≏ 46'41	
	14868 Nov 14 06:05	ರ∘ರ		behind sun end	14869 Oct 01 20:11	25° ≏ 47'30	
desc. node	14868 Nov 15 19:33	1° る 24'23			14869 Oct 03 22:25	0° M ₊	
retrograde	14868 Nov 25 20:10	5° ರ 36'15		evening rise	14869 Oct 09 15:11	11° M .38'14	
evening set	14868 Nov 28 13:38	5° る 18'55			14869 Oct 19 07:30	0° ∡ ¹	
inferior conj	14868 Dec 07 09:21	1° る 26'52	-5°37'46	evening max el	14869 Oct 27 03:50	10° х ³33′02	19°53'48
minimum elong	14868 Dec 07 01:53	1° る 37'23	5°35'37	desc. node	14869 Nov 02 16:49	15° ∡ ¹00′27	
min. Earth dist.	14868 Dec 07 22:11	1° る 08'43	0.54448 AU	retrograde	14869 Nov 06 10:07	15° ∡ ³39'59	
	14868 Dec 09 23:52	30°₽ ⋌ ¹		evening set	14869 Nov 08 10:20	15° ∡ ¹29'07	
morning rise	14868 Dec 15 14:35	27° ∡ ³36′23		inferior conj	14869 Nov 17 05:49	11° ∡ 129′17	-4°20'58
direct	14868 Dec 19 14:41	27° ∡ "01'49		minimum elong	14869 Nov 16 19:51	11° ∡¹ 44'32	4°17'02
	14868 Dec 28 11:09	ರ°0		min. Earth dist.	14869 Nov 19 05:51	10° ∡ 15'51	0.55058 AU
morning max el	14869 Jan 01 12:21	3° ප 16'27	22°42'52	morning rise	14869 Nov 25 04:00	7° ∡ 17'31	
asc. node	14869 Jan 10 06:04	14° る 02'35		direct	14869 Nov 30 03:36	6° ҂ ¹23′00	
	14869 Jan 19 07:36	0° ≈		morning max el	14869 Dec 13 21:33	13° ∡ 12'38	24°32'20
morning set	14869 Jan 23 19:20	9° ≈ 15'35			14869 Dec 26 19:17	0°₹	
				asc. node	14869 Dec 28 03:15	2° る 13'18	
superior conj	14869 Jan 30 18:45	24°≈14'36	1°26'37	morning set	14870 Jan 08 07:16	23° る 58'47	
minimum elong	14869 Jan 30 20:42	24° ≈ 25′00	1°27'06		14870 Jan 11 01:44	0° ≈	
	14869 Feb 02 12:09	0°) €					
max. Earth dist.	14869 Feb 03 07:01	1°) 37′58	1.33689 AU	superior conj	14870 Jan 15 02:02	8° ≈ 49'30	1°35'22
evening rise	14869 Feb 07 20:05	10°) 47′10		minimum elong	14870 Jan 15 03:01	8° ≈ 54'56	1°36'10
desc. node	14869 Feb 11 19:40	18° ¥ 21′29		max. Earth dist.	14870 Jan 17 06:21	13° ≈ 34'30	1.32325 AU
	14869 Feb 18 10:31	0 ° Υ		evening rise	14870 Jan 22 12:20	24° ≈ 36′56	
	14869 Mar 11 23:54	$_{0\circ}$ 8			14870 Jan 25 05:05	0° ℋ	
evening max el	14869 Mar 14 12:47	2° 8 35'12	27°10'11				
retrograde	14960 Mar. 20, 00.22		2/ 1011	desc. node	14870 Jan 29 16:17	8°) 25′54	
evening set	14869 Mar 28 00:33	10° 8 05'13	27 1011	desc. node			
	14869 Mar 28 00:33 14869 Apr 03 15:25	10° 8 05'13 7° 8 33'54	27 1011	desc. node evening max el	14870 Jan 29 16:17	8° 升 25′54	27°33'53
min. Earth dist.			0.65298 AU		14870 Jan 29 16:17 14870 Feb 11 23:30	8° 升 25'54 0° Ƴ	27°33'53
min. Earth dist. asc. node	14869 Apr 03 15:25	7° 8 33'54		evening max el	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02	8°) 25'54 0° Υ 15° Υ 47'25	27°33'53
	14869 Apr 03 15:25 14869 Apr 07 12:57	7° と 33'54 3° と 51'39		evening max el retrograde	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01	0.63378 AU
asc. node	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47	7° と 33'54 3° と 51'39 3° と 13'31	0.65298 AU 0°32'58	evening max el retrograde evening set	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42	8°¥25'54 0°Υ 15°Υ47'25 23°Υ15'55 20°Υ52'24	0.63378 AU
asc. node inferior conj	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56	7°\dagger 33'54 3°\dagger 51'39 3°\dagger 13'31 1°\dagger 14'46	0.65298 AU 0°32'58	evening max el retrograde evening set min. Earth dist.	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01	0.63378 AU
asc. node inferior conj	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15	0.65298 AU 0°32'58	evening max el retrograde evening set min. Earth dist. inferior conj	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07	0.63378 AU -0°33'39
asc. node inferior conj minimum elong	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54	7°&33'54 3°&51'39 3°&13'31 1°&14'46 1°&17'15 30°RΥ	0.65298 AU 0°32'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25	8° \cdot 25'54 0° \cdot 7' 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23	0.63378 AU -0°33'39
asc. node inferior conj minimum elong morning rise	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22	7°\dash3'54 3°\dash51'39 3°\dash3'31 1°\dash4'46 1°\dash7'15 30°\rak{Y} 25°\cap44'41	0.65298 AU 0°32'58	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12	8° \cdot 25'54 0° \cdot 7' 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54	0.63378 AU -0°33'39
asc. node inferior conj minimum elong morning rise direct	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Υ 25°Υ44'41 25°Υ04'28	0.65298 AU 0°32'58 0°32'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40	8°\£25'54 0°\Y' 15°\Y47'25 23°\Y15'55 20°\Y52'24 17°\Y39'01 14°\Y50'07 14°\Y47'23 13°\Y06'54 9°\Y35'08	0.63378 AU -0°33'39
asc. node inferior conj minimum elong morning rise direct	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Ψ 25°Ψ44'41 25°Ψ04'28 28°Ψ'21'29	0.65298 AU 0°32'58 0°32'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20	8°\£25'54 0°\Y' 15°\Y47'25 23°\Y15'55 20°\Y52'24 17°\Y39'01 14°\Y50'07 14°\Y47'23 13°\Y06'54 9°\Y35'08 9°\Y07'06	0.63378 AU -0°33'39 0°33'22
asc. node inferior conj minimum elong morning rise direct morning max el	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19	7°\d33'54 3°\d51'39 3°\d13'31 1°\d14'46 1°\d17'15 30°\R\Y 25°\Y44'41 25°\Y04'28 28°\Y21'29 0°\d6	0.65298 AU 0°32'58 0°32'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37	8°\£25'54 0°\Y' 15°\Y47'25 23°\Y15'55 20°\Y52'24 17°\Y39'01 14°\Y50'07 14°\Y47'23 13°\Y06'54 9°\Y35'08 9°\Y07'06 12°\Y25'18	0.63378 AU -0°33'39 0°33'22
asc. node inferior conj minimum elong morning rise direct morning max el desc. node	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46	7°\delta33'54 3°\delta51'39 3°\delta13'31 1°\delta14'46 1°\delta17'15 30°\kappa \cdot \cdo	0.65298 AU 0°32'58 0°32'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56	8°\£25'54 0°\Y 15°\Y47'25 23°\Y15'55 20°\Y52'24 17°\Y39'01 14°\Y50'07 14°\Y47'23 13°\Y06'54 9°\Y35'08 9°\Y07'06 12°\Y25'18 0°\B	0.63378 AU -0°33'39 0°33'22
asc. node inferior conj minimum elong morning rise direct morning max el desc. node	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41	7°\delta33'54 3°\delta51'39 3°\delta13'31 1°\delta14'46 1°\delta17'15 30°\delta\text{Y} 25°\text{Y}\d4'41 25°\text{Y}\d4'28 28°\text{Y}\d21'29 0°\delta 21°\delta12'04 25°\delta01'09	0.65298 AU 0°32'58 0°32'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24	8°\£25'54 0°\Y 15°\Y47'25 23°\Y15'55 20°\Y52'24 17°\Y39'01 14°\Y50'07 14°\Y47'23 13°\Y06'54 9°\Y35'08 9°\Y07'06 12°\Y25'18 0°\S 7°\S18'20	0.63378 AU -0°33'39 0°33'22
asc. node inferior conj minimum elong morning rise direct morning max el desc. node	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41	7°\delta33'54 3°\delta51'39 3°\delta13'31 1°\delta14'46 1°\delta17'15 30°\delta\text{Y} 25°\text{Y}\d4'41 25°\text{Y}\d4'28 28°\text{Y}\d21'29 0°\delta 21°\delta12'04 25°\delta01'09	0.65298 AU 0°32'58 0°32'13 17°59'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24	8°\£25'54 0°\Y 15°\Y47'25 23°\Y15'55 20°\Y52'24 17°\Y39'01 14°\Y50'07 14°\Y47'23 13°\Y06'54 9°\Y35'08 9°\Y07'06 12°\Y25'18 0°\S 7°\S18'20	0.63378 AU -0°33'39 0°33'22 17°46'32
asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41 14869 May 16 06:46	7°\d33'54 3°\d51'39 3°\d51'31 1°\d14'46 1°\d517'15 30°\k\foatigarrow 25°\foatigarrow 25°\foatigarrow 21°\d512'04 25°\d501'09 0°\L	0.65298 AU 0°32'58 0°32'13 17°59'13	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	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27	8°\£25'54 0°\Tangle 15°\Tangle 15°\Tangle 15°\Tangle 15'\Tangle 15'\Tangle 15'\Tangle 15'\Tangle 15'\Tangle 16'\Tangle 1	0.63378 AU -0°33'39 0°33'22 17°46'32
asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41 14869 May 16 06:46	7°\delta33'54 3°\delta51'39 3°\delta51'31 1°\delta14'46 1°\delta17'15 30°\kgamma'\text{RY} 25°\delta44'41 25°\delta04'28 28°\delta21'29 0°\delta 21°\delta12'04 25°\delta01'09 0°\pi	0.65298 AU 0°32'58 0°32'13 17°59'13	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	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 02 10:20 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54 9° \cdot 735'08 9° \cdot 707'06 12° \cdot 25'18 0° \cdot 7° \cdot 18'20 11° \cdot 31'29 28° \cdot 28'11	0.63378 AU -0°33'39 0°33'22 17°46'32
asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41 14869 May 16 06:46	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Υ 25°Υ44'41 25°Υ04'28 28°Υ21'29 0°8 21°812'04 25°801'09 0°Π 18°Π13'56 17°Π39'04	0.65298 AU 0°32'58 0°32'13 17°59'13 -1°48'45 1°48'57	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	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 02 10:20 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54 9° \cdot 735'08 9° \cdot 70'06 12° \cdot 25'18 0° \cdot 7° \cdot 18'20 11° \cdot 31'29 28° \cdot 28'11 27° \cdot 58'47	0.63378 AU -0°33'39 0°33'22 17°46'32
asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 10 21:46 14869 May 16 06:46 14869 May 27 15:20 14869 May 27 15:20 14869 May 31 00:25	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Υ 25°Υ44'41 25°Υ04'28 28°Υ21'29 0°8 21°812'04 25°801'09 0°Π 18°Π13'56 17°Π39'04 23°Π32'40	0.65298 AU 0°32'58 0°32'13 17°59'13 -1°48'45 1°48'57	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	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27 14870 May 07 21:06 14870 May 07 13:55 14870 May 08 19:36	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54 9° \cdot 735'08 9° \cdot 70'06 12° \cdot 25'18 0° \cdot 31'29 28° \cdot 28'11 27° \cdot 58'47 0° \cdot \cdot \cdot \cdot 20'	0.63378 AU -0°33'39 0°33'22 17°46'32 -1°14'21 1°14'13
asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 10 21:46 14869 May 16 06:46 14869 May 27 15:20 14869 May 27 15:20 14869 May 31 00:25 14869 Jun 04 03:46	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Υ 25°Υ44'41 25°Υ04'28 28°Υ21'29 0°8 21°812'04 25°801'09 0°Π 18°Π13'56 17°Π39'04 23°Π32'40 0°©	0.65298 AU 0°32'58 0°32'13 17°59'13 -1°48'45 1°48'57	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.	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 26 00:12 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 27 18:27 14870 May 07 21:06 14870 May 07 13:55 14870 May 08 19:36 14870 May 13 18:55	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54 9° \cdot 735'08 9° \cdot 70'06 12° \cdot 25'18 0° \cdot 8'20 11° \cdot 31'29 28° \cdot 28'11 27° \cdot 58'47 0° IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	0.63378 AU -0°33'39 0°33'22 17°46'32 -1°14'21 1°14'13
asc. node inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41 14869 May 16 06:46 14869 May 27 15:20 14869 May 27 15:20 14869 May 31 00:25 14869 Jun 04 03:46 14869 Jun 14 17:10	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Υ 25°Υ44'41 25°Υ04'28 28°Υ21'29 0°8 21°812'04 25°801'09 0°Π 18°Π13'56 17°Π39'04 23°Π32'40 0°9 13°9313'04	0.65298 AU 0°32'58 0°32'13 17°59'13 -1°48'45 1°48'57	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.	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27 14870 May 07 21:06 14870 May 07 13:55 14870 May 13 18:55 14870 May 13 18:55 14870 May 23 03:56	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54 9° \cdot 735'08 9° \cdot 70'06 12° \cdot 25'18 0° \cdot 70'818'20 11° \cdot 31'29 28° \cdot 28'11 27° \cdot 58'47 0° IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	0.63378 AU -0°33'39 0°33'22 17°46'32 -1°14'21 1°14'13
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	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41 14869 May 16 06:46 14869 May 27 15:20 14869 May 27 15:20 14869 May 31 00:25 14869 Jun 04 03:46 14869 Jun 12 17:10 14869 Jun 23 17:48	7°833'54 3°851'39 3°813'31 1°814'46 1°817'15 30°8Υ 25°Υ44'41 25°Υ04'28 28°Υ21'29 0°8 21°812'04 25°801'09 0°Π 18°Π13'56 17°Π39'04 23°Π32'40 0°\$ 13°\$13'04 0°\$	0.65298 AU 0°32'58 0°32'13 17°59'13 -1°48'45 1°48'57 1.45701 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.	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27 14870 May 07 21:06 14870 May 07 13:55 14870 May 13 18:55 14870 May 13 18:55 14870 May 23 03:56 14870 May 23 03:56	8° \cdot 25'54 0° \cdot 15° \cdot 47'25 23° \cdot 15'55 20° \cdot 52'24 17° \cdot 39'01 14° \cdot 50'07 14° \cdot 47'23 13° \cdot 06'54 9° \cdot 735'08 9° \cdot 70'06 12° \cdot 25'18 0° \cdot 8'20 11° \cdot 31'29 28° \cdot 28'11 27° \cdot 58'47 0° IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	0.63378 AU -0°33'39 0°33'22 17°46'32 -1°14'21 1°14'13 1.44770 AU
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	14869 Apr 03 15:25 14869 Apr 07 12:57 14869 Apr 08 02:47 14869 Apr 09 20:56 14869 Apr 09 20:02 14869 Apr 10 23:54 14869 Apr 16 02:22 14869 Apr 18 20:17 14869 Apr 25 03:59 14869 Apr 26 17:19 14869 May 10 21:46 14869 May 13 05:41 14869 May 16 06:46 14869 May 27 15:20 14869 May 27 06:30 14869 May 31 00:25 14869 Jun 04 03:46 14869 Jun 12 17:10 14869 Jun 23 17:48 14869 Jun 26 06:17	7° 833'54 3° 851'39 3° 813'31 1° 814'46 1° 817'15 30° 8 Υ 25° Υ 44'41 25° Υ 04'28 28° Υ 21'29 0° 8 21° 812'04 25° 801'09 0° Π 18° Π13'56 17° Π39'04 23° Π32'40 0° 9 13° 913'04 0° Ω 3° Ω 44'20	0.65298 AU 0°32'58 0°32'13 17°59'13 -1°48'45 1°48'57 1.45701 AU -0.7m	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	14870 Jan 29 16:17 14870 Feb 11 23:30 14870 Feb 25 01:02 14870 Mar 10 20:53 14870 Mar 17 16:42 14870 Mar 21 11:23 14870 Mar 24 06:21 14870 Mar 24 07:25 14870 Mar 31 00:40 14870 Apr 02 10:20 14870 Apr 08 21:37 14870 Apr 21 00:56 14870 Apr 25 07:24 14870 Apr 27 18:27 14870 May 07 21:06 14870 May 07 13:55 14870 May 08 19:36 14870 May 13 18:55 14870 May 23 03:56 14870 May 28 00:21 14870 May 28 00:21	8° \(\)25'54 0° \(\)7 15° \(\)747'25 23° \(\)715'55 20° \(\)75'224 17° \(\)739'01 14° \(\)750'07 14° \(\)747'23 13° \(\)706'54 9° \(\)735'08 9° \(\)707'06 12° \(\)725'18 0° \(\)7° \(\)818'20 11° \(\)831'29 28° \(\)828'11 27° \(\)58'47 0° \(\)1 7° \(\)159'51 22° \(\)137'23 0° \(\)90° \(\)	0.63378 AU -0°33'39 0°33'22 17°46'32 -1°14'21 1°14'13 1.44770 AU

retrograde	14870 Jun 29 04:07	7° Ω 32'07		asc. node	14871 Jun 08 18:56	20° © 45'37	
evening set	14870 Jul 03 07:42	5° Ω 54'34		retrograde	14871 Jun 13 02:24	20°907'57	
evening set	14870 Jul 08 10:16	30°R.55		evening set	14871 Jun 17 17:00	20°513'40	
inferior conj	14870 Jul 08 13:42	29°5648'11	3°10'10	inferior conj	14871 Jun 22 22:58	13°956'50	3°06'30
minimum elong	14870 Jul 08 13:53	29°5647'34	3°09'14	minimum elong	14871 Jun 22 22:12	13° © 59'31	3°05'27
min. Earth dist.	14870 Jul 09 05:19	28°954'26	0.68491 AU	min. Earth dist.	14871 Jun 23 01:12	13°9549'01	0.68988 AU
morning rise	14870 Jul 13 19:46	23°526'39		morning rise	14871 Jun 28 03:13	7°9541'22	
direct	14870 Jul 19 05:28	21° © 04'33		direct	14871 Jul 03 00:27	5° 5 36'10	
desc. node	14870 Jul 24 17:51	23°900'50		desc. node	14871 Jul 11 15:07	10° © 15'27	
morning max el	14870 Jul 30 04:53	27°538'07	23°53'32	morning max el	14871 Jul 12 17:05	11° © 18'33	22°24'31
	14870 Aug 01 10:20	$0^{\circ}\Omega$			14871 Jul 27 12:53	$0^{\circ}\Omega$	
	14870 Aug 23 08:49	0° m)		morning set	14871 Aug 15 03:25	28° Ω 17'24	
morning set	14870 Sep 03 09:32	17° m 53'46			14871 Aug 16 04:39	0° m	
max. Earth dist.	14870 Sep 07 04:04	24° Mp 26° 24	1.38662 AU	max. Earth dist.	14871 Aug 20 04:46	6° Mp 38′18	1.41028 AU
	14870 Sep 10 06:33	0∘ ⊽					
				superior conj	14871 Aug 28 00:55	20° m 14'17	
superior conj	14870 Sep 14 16:03	8° ℃ 09'08		minimum elong	14871 Aug 28 06:02	20° m 37'10	1°05'04
minimum elong	14870 Sep 14 18:09	8° ≙ 19'05	0°29'12		14871 Sep 02 09:32	0∘ ত	
asc. node	14870 Sep 17 23:19	14° ≙ 28'31		asc. node	14871 Sep 04 19:53	4° ≏ 31'43	
evening rise	14870 Sep 23 15:13	25° △ 33'39		evening rise	14871 Sep 07 05:57	9° Ω 03'45	
	14870 Sep 25 21:48	0°M			14871 Sep 19 08:50	0°M	
evening max el	14870 Oct 09 22:38	22°M12'13	18°55'39	evening max el	14871 Sep 23 04:09	4°M35'43	18°19'10
retrograde	14870 Oct 18 15:06	26°M34'30		retrograde	14871 Sep 30 15:39	8°M23'57	
evening set desc. node	14870 Oct 20 12:15 14870 Oct 20 14:11	26°M23'00		evening set desc. node	14871 Oct 02 17:14	8°M07'12 5°M39'32	
	14870 Oct 20 14:11 14870 Oct 28 19:20	26°M22'00 22°M05'09	2026121		14871 Oct 07 11:36	3°M28'03	0052124
inferior conj minimum elong	14870 Oct 28 19:20 14870 Oct 28 12:49	22°M16'38	2°33'16	inferior conj minimum elong	14871 Oct 10 06:39 14871 Oct 10 04:39	3°M32'10	
min. Earth dist.	14870 Oct 28 12:49 14870 Oct 31 17:51	20°ML01'24	0.56496 AU	min. Earth dist.	14871 Oct 10 04.39 14871 Oct 13 13:08	0°M47'02	0.58505 AU
morning rise	14870 Nov 05 10:28	17°ML18'44	0.30490 AU	iiiii. Eartii tist.	14871 Oct 14 13:45	ე იც47 02 30° გ Ω	0.38303 AO
direct	14870 Nov 11 05:09	15°M59'38		morning rise	14871 Oct 17 12:37	28° ♀ 04'42	
morning max el	14870 Nov 25 08:53	23°M16'22	26°11'34	direct	14871 Oct 23 20:32	26° ⊆ 18'51	
morning max or	14870 Dec 01 10:13	0°×7	20 113 .	unect	14871 Nov 02 12:10	0°M	
asc. node	14870 Dec 15 00:19	21° ₹ ¹03'09		morning max el	14871 Nov 07 03:52	3°M57'23	27°22'57
	14870 Dec 19 15:37	0°ප			14871 Nov 26 04:57	0° ∡ ¹	
morning set	14870 Dec 23 18:13	8° ට 34'53		asc. node	14871 Dec 01 21:18	10° ∡ ¹21'50	
Č				morning set	14871 Dec 08 02:25	22° ₹ 59'21	
superior conj	14870 Dec 30 12:24	23° る 29'46	1°37'57		14871 Dec 11 07:57	ರ∘ರ	
minimum elong	14870 Dec 30 12:19	23° る 29'19	1°38'55				
max. Earth dist.	14870 Dec 31 11:42	25° る 39'25	1.31449 AU	superior conj	14871 Dec 14 23:55	8° る 09'45	1°34'34
	14871 Jan 02 10:53	0° ≈		minimum elong	14871 Dec 14 22:50	8° そ 03'38	1°35'31
evening rise	14871 Jan 06 12:28	8° ≈ 44'50		max. Earth dist.	14871 Dec 14 19:45	7° る 46'23	1.31090 AU
desc. node	14871 Jan 16 13:00	28° ≈ 09'39		evening rise	14871 Dec 21 18:09	23° る 04'56	
	14871 Jan 17 14:15	0° ∀			14871 Dec 25 01:30	0° ≈	
evening max el	14871 Feb 07 09:42	28° ¥ 22'33	27°26'06	desc. node	14872 Jan 03 09:47	17° ≈ 24'15	
	14871 Feb 09 04:41	0° Υ			14872 Jan 11 17:16	0° ∀	
retrograde	14871 Feb 21 08:58	5° Y 43'16		evening max el	14872 Jan 20 11:48	10° 米 08′15	26°43'27
evening set	14871 Feb 28 04:49	3° Y 34'51	0.61000.434	retrograde	14872 Feb 03 11:21	17°) € 18'56	
min. Earth dist.	14871 Mar 03 23:47		0.61230 AU	evening set	14872 Feb 10 00:18	15° ¥ 32'37	0.50012.411
	14871 Mar 04 20:06	30° ₹ ₩	1052014	min. Earth dist.	14872 Feb 14 01:34		0.59012 AU
inferior conj	14871 Mar 07 02:39	27°\dagger 57'38 27°\dagger 48'38		inferior conj	14872 Feb 17 06:06	10° ¥ 26'38 10° ¥ 12'19	
minimum elong asc. node	14871 Mar 07 06:41 14871 Mar 12 21:39	23°\(\frac{7}{48}\)38'48	1-30/29	minimum elong morning rise	14872 Feb 17 13:29 14872 Feb 25 05:57	5° H 50'54	3-15-51
morning rise	14871 Mar 14 11:42	23° X 00'47		direct	14872 Feb 27 05:58	5° ∺ 36'31	
direct	14871 Mar 16 15:03	22° H 41'19		asc. node	14872 Feb 27 19:07	5° ¥ 37'38	
morning max el	14871 Mar 23 14:12	26°\(\frac{1}{1}\)11'31	17°51'55	morning max el	14872 Mar 06 02:06	9° ∺ 29'24	18°16'36
morning max er	14871 Mar 26 20:50	0°Υ	17 31 33	morning max er	14872 Mar 19 09:54	0° Υ	10 10 30
morning set	14871 Apr 08 05:44	20° Y 33'16		morning set	14872 Mar 21 18:49	4° Υ 27'42	
morning sec	14871 Apr 13 12:00	0°8		morning sev	110/21/10/19	. , 27 .2	
desc. node	14871 Apr 14 15:04	1° 8 59'58		superior conj	14872 Mar 31 06:28	22° Y ′09'38	0°01'47
	P . 22.27			minimum elong	14872 Mar 31 06:35	22° Υ 10'09	0°01'29
superior conj	14871 Apr 19 02:35	9° 8 48'26	-0°35'27	behind sun begin	14872 Mar 30 23:11	21° Y '36'35	
minimum elong	14871 Apr 18 23:21	9° 8 34'32		behind sun end	14872 Mar 31 13:58	22° Y ′43'37	
max. Earth dist.	14871 Apr 26 10:13	22° 8 03'40	1.43213 AU	desc. node	14872 Mar 31 11:38	22° Y ′33'04	
	14871 May 01 08:46	Π°			14872 Apr 04 16:13	9° 8	
evening rise	14871 May 02 22:46	2° Ⅲ 29'40		max. Earth dist.	14872 Apr 07 20:42	5° 8 29'12	1.41194 AU
	14871 May 21 11:00	0ංම		evening rise	14872 Apr 12 11:59	13° 8 12'14	
evening max el	14871 Jun 03 21:04	16° 5 944'33	21°49'06		14872 Apr 23 05:44	Π $^{\circ}0$	

	14872 May 15 22:09	0°9ء		evening max el	14873 Apr 29 02:26	14° Ⅱ 30'37	24°30'01
evening max el	14872 May 16 12:44	0° © 36'53	23°09'15	retrograde	14873 May 10 15:22	21° Ⅱ 15'42	
asc. node	14872 May 25 16:03	6° © 37'13		asc. node	14873 May 12 13:15	20° Ⅱ 59'54	
retrograde	14872 May 26 22:34	6° 5 44'22		evening set	14873 May 16 04:55	18° Ⅱ 54'35	
evening set	14872 Jun 01 00:37	4° © 35'11		min. Earth dist.	14873 May 20 17:44	13° Ⅱ 43'13	0.68532 AU
	14872 Jun 05 00:47	30°RⅡ	20.5012.1	inferior conj	14873 May 21 17:13	12° Ⅱ 24'30	2°27'48
inferior conj	14872 Jun 06 08:46		2°52'21	minimum elong	14873 May 21 15:09		2°26'24
minimum elong min. Earth dist.	14872 Jun 06 07:13 14872 Jun 05 22:03	28° Ⅱ 15'30 28° Ⅱ 47'12	2°51'06 0.68998 AU	morning rise direct	14873 May 27 01:32 14873 May 30 22:15	6°П25'03 4°П59'40	
morning rise	14872 Jun 11 13:45	28 H 47 12 22° H 02'04	0.06996 AU	morning max el	14873 Jun 07 09:30	9° П 09'16	19°50'15
direct	14872 Jun 15 22:27	20° I 16'29		desc. node	14873 Jun 14 09:24	17° Ⅲ 30′02	17 30 13
morning max el	14872 Jun 24 09:54		21°01'33	desc. node	14873 Jun 23 03:40	0°9	
desc. node	14872 Jun 27 12:18	28° Ⅲ 30'31		morning set	14873 Jul 04 01:08	16° © 28'34	
	14872 Jun 28 18:20	0ಂತಾ			14873 Jul 12 18:09	$0^{\circ}\Omega$	
	14872 Jul 19 22:09	$0^{\circ}\Omega$		max. Earth dist.	14873 Jul 14 23:40	3° Ω 31′05	1.44738 AU
morning set	14872 Jul 24 21:38	7° Ω 40'41					
max. Earth dist.	14872 Aug 01 11:10	19° Ω 42'24	1.43128 AU	superior conj	14873 Jul 20 00:32	11° Ω 34'05	
	14872 Aug 07 16:41	0° ™		minimum elong	14873 Jul 20 06:48	11° Q 59′20	2°05'01
					14873 Jul 31 04:25	0° m)	
superior conj	14872 Aug 08 12:33	1° m, 23'50		evening rise	14873 Aug 02 13:19	4° Mp 00'28	
minimum elong	14872 Aug 08 19:58	1° m 55'13	1°39'05	asc. node	14873 Aug 08 13:07	14° m 07'35	
evening rise	14872 Aug 20 07:02	21° m 57'07			14873 Aug 19 08:48	0° Ω	10005155
asc. node	14872 Aug 21 16:30	24° Tp 26'19		evening max el	14873 Aug 20 06:47	0° £ 57'10	18°05'55
evening max el	14872 Aug 24 19:50 14872 Sep 05 16:10	0° ჲ 17° ჲ 34'04	18°03'04	retrograde evening set	14873 Aug 26 15:55 14873 Aug 29 09:18	4° £ 17'33 3° £ 39'05	
retrograde	14872 Sep 12 09:26	21° 2 01'34	18 03 04	evening set	14873 Sep 03 01:48	30°R, m)	
evening set	14872 Sep 12 05:20	20° £ 35'42		inferior conj	14873 Sep 03 01:48	28° m) 22'03	1°37'55
inferior conj	14872 Sep 21 14:28	15° ≏ 36'29	0°32'44	minimum elong	14873 Sep 04 17:13	28° m 15'55	1°37'05
minimum elong	14872 Sep 21 15:29	15° ≏ 34'05	0°32'31	min. Earth dist.	14873 Sep 07 08:11	25° m/26'43	0.63032 AU
desc. node	14872 Sep 23 09:03	13° ≏ 54'13		desc. node	14873 Sep 10 06:34	22° m/41'44	
min. Earth dist.	14872 Sep 24 17:45	12° ₽ 37'49	0.60774 AU	morning rise	14873 Sep 10 22:58	22° m 09'45	
morning rise	14872 Sep 28 09:33	9° △ 43′28		direct	14873 Sep 17 14:57	19° m 40'55	
direct	14872 Oct 05 00:34	7° ჲ 32'48		morning max el	14873 Oct 01 14:43	27° m 41'26	27°51'17
morning max el	14872 Oct 19 06:38	15° ≏ 27'04	27°56'35		14873 Oct 03 19:41	0∘ ত	
	14872 Oct 31 03:52	0° M			14873 Oct 24 21:59	0° M	
asc. node	14872 Nov 17 18:13	0° ∡ ¹01'36		asc. node	14873 Nov 04 15:01	19°M55'30	
	14872 Nov 17 17:53	0° ∕ 7		morning set	14873 Nov 05 02:32	20°M53'38	
morning set	14872 Nov 21 05:57 14872 Nov 27 02:39	7°×707'41	1.31269 AU	Fauth diat	14873 Nov 09 11:38	0° ∡ 7	1 22000 ATT
max. Earth dist.	148/2 NOV 2/ 02:39	19° ∡ 746′29	1.31209 AU	max. Earth dist.	14873 Nov 10 04:30	1° ∡ °30′09	1.32008 AU
superior conj	14872 Nov 28 10:46	22° х 44'41	1°25'16	superior conj	14873 Nov 12 18:56	7° ∡ "08'25	1°10'04
minimum elong	14872 Nov 28 08:53	22° ∡ ³34'13	1°26'03	minimum elong	14873 Nov 12 16:38	6° ₹ ¹55'52	1°10'36
	14872 Dec 01 16:57	ರ∘ರ		evening rise	14873 Nov 19 14:13	22° х 02′16	
evening rise	14872 Dec 05 03:23	7° る 32'31			14873 Nov 23 09:01	ರ°0	
	14872 Dec 16 14:43	0° ≈		desc. node	14873 Dec 07 03:41	23° る 38'14	
desc. node	14872 Dec 20 06:41	5° ≈ 58'56			14873 Dec 12 11:40	0° ≈	
evening max el	14873 Jan 01 05:30	21° ≈ 00′58	25°28'11	evening max el	14873 Dec 13 16:21	1° ≈ 11'29	23°50'42
retrograde	14873 Jan 15 02:38	28°≈00'13		retrograde	14873 Dec 27 04:42	7°≈54'05	
evening set	14873 Jan 20 23:18	26°≈41'42	0.50001.477	evening set	14873 Dec 31 22:58	7°≈04'50	0.55055.444
min. Earth dist.	14873 Jan 25 18:00	24°≈01'30	0.56961 AU	min. Earth dist.	14874 Jan 07 03:37	4°≈04'12	0.55375 AU
inferior conj	14873 Jan 28 13:29 14873 Jan 28 22:38	22°≈08'12 21°≈52'48		inferior conj	14874 Jan 09 00:03	2°≈58'04 2°≈49'13	
minimum elong morning rise	14873 Feb 06 00:42	21 ≈3248 17°≈54'21	4 39 30	minimum elong	14874 Jan 09 05:59 14874 Jan 14 14:09	2 ≈4913 30°Rる	3 42 33
direct	14873 Feb 08 02:50	17°≈41'21		morning rise	14874 Jan 17 14:43	29°る02'24	
asc. node	14873 Feb 13 16:33	17 ≈ 41 21 19° ≈ 20'31		direct	14874 Jan 20 04:07	28°る45'58	
morning max el	14873 Feb 17 05:17	22° ≈ 07'39	19°02'26	unou	14874 Jan 25 10:02	0° ≈	
	14873 Feb 23 09:50	0°) €		morning max el	14874 Jan 30 19:33	3° ≈ 53'48	20°11'14
morning set	14873 Mar 05 18:04	18° ¥ 48'14		asc. node	14874 Jan 31 13:57	4° ≈ 39'45	
Č	14873 Mar 11 10:21	0° Υ			14874 Feb 16 07:47	0° ∀	
				morning set	14874 Feb 17 23:56	3°) €23'49	
superior conj	14873 Mar 14 04:32	5° Ƴ 19'54	0°33'55				
minimum elong	14873 Mar 14 06:33	5° Y ′29'32	0°33'35	superior conj	14874 Feb 25 16:16	19°) €05'48	0°59'40
desc. node	14873 Mar 18 08:13	13° Y ′07′21		minimum elong	14874 Feb 25 18:54	19° ¥ 19′01	0°59'33
max. Earth dist.	14873 Mar 21 03:13	18° Y 10′53	1.38940 AU		14874 Mar 03 06:08	0° Υ	
evening rise	14873 Mar 24 22:30	24° Y ′50′18		max. Earth dist.	14874 Mar 03 09:55	0° Υ 17'56	1.36697 AU
	14873 Mar 27 23:51	0° B		desc. node	14874 Mar 05 04:45	3°Y38'31	
	14873 Apr 16 22:28	Π °0		evening rise	14874 Mar 07 04:24	7° Ƴ 16'42	

	14874 Mar 20 19:21	0°B			14875 Feb 23 08:06	$0^{\circ}\mathbf{Y}$	
evening max el	14874 Apr 11 16:02	28° 8 23'49	25°44'24		14875 Mar 14 18:15	0°8	
evening max er	14874 Apr 13 08:53	0°Ⅱ	23 44 24	evening max el	14875 Mar 25 05:54	12° 8 09'24	26°44'48
retrograde	14874 Apr 24 03:39	5° Ⅱ 35'14		retrograde	14875 Apr 07 10:18	19° 8 35'02	20 44 46
•	•			•	1	_	
asc. node	14874 Apr 29 10:32	3° Ⅱ 41′04		evening set	14875 Apr 13 20:44	17° 8 02'53	
evening set	14874 Apr 30 04:15	3° Ⅱ 06'07		asc. node	14875 Apr 16 07:53	14° 8 44'50	
	14874 May 03 04:54	30° ₹ 8		min. Earth dist.	14875 Apr 17 20:58	13° 8 02'01	0.66251 AU
min. Earth dist.	14874 May 04 10:07	28° 8 30'42		inferior conj	14875 Apr 19 21:49	10° 8 37'54	1°05'36
inferior conj	14874 May 05 22:18	26° 8 35'40	1°52'30	minimum elong	14875 Apr 19 20:15	10° 8 42'34	1°04'28
minimum elong	14874 May 05 20:10	26° 8 42'27	1°51'04	morning rise	14875 Apr 25 20:57	5° 8 00'04	
morning rise	14874 May 11 12:39	20° 8 46'08		direct	14875 Apr 28 20:21	4° 8 11'06	
direct	14874 May 14 22:13	19° 8 40'00		morning max el	14875 May 05 05:26	7° 8 32'20	18°14'24
morning max el	14874 May 21 16:25	23° 8 19'01	18°54'03	desc. node	14875 May 19 03:14	26° 8 57'35	
Ç	14874 May 27 07:37	0°II			14875 May 21 01:04	0°II	
desc. node	14874 Jun 01 06:23	7° I 102'09		morning set	14875 May 24 17:05	5° I 51'50	
greatest brilliancy	14874 Jun 04 03:51	11° II 22'28	-0.8m	morning set	14875 Jun 08 23:16	0°95	
		25° I 36'18	-0.6111		146/3 Juli 06 23.10	0 3	
morning set	14874 Jun 13 09:45				14075 1 00 01 01	00506150	2002112
	14874 Jun 16 05:44	0°©		superior conj	14875 Jun 09 01:01	0°906'50	
max. Earth dist.	14874 Jun 27 17:21	17° © 52'39	1.45697 AU	minimum elong	14875 Jun 08 17:49	29° Ⅱ 38'44	
				max. Earth dist.	14875 Jun 10 13:44	2° © 30'16	1.45918 AU
superior conj	14874 Jun 29 16:32	20° © 57'21	-2°13'55	evening rise	14875 Jun 25 02:21	25° © 06'43	
minimum elong	14874 Jun 29 16:25	20°956'55	2°14'52		14875 Jun 28 05:48	$0^{\circ}\Omega$	
	14874 Jul 05 10:15	$0^{\circ}\Omega$		greatest brilliancy	14875 Jul 06 00:05	11° Ω 57'27	-0.8m
evening rise	14874 Jul 14 20:03	15° Ω 03'30		asc. node	14875 Jul 13 06:31	22° Ω 27′21	
	14874 Jul 24 03:24	0° m		evening max el	14875 Jul 18 06:59	28° Ω 24'14	19°04'35
asc. node	14874 Jul 26 09:47	3° m/30'23		Ü	14875 Jul 20 01:33	0° m/	
evening max el	14874 Aug 03 20:39	14° Mp 36'36	18°26'42	retrograde	14875 Jul 25 03:10	2° Mp 10'29	
retrograde	14874 Aug 10 06:59	18° Mp 03'16	10 20 12	evening set	14875 Jul 28 14:50	1° Mp 00'04	
evening set	14874 Aug 13 09:17	17° Mp 09'38		evening set	14875 Jul 29 21:30	1 11,0000∓ 30°RΩ	
•	•		2022122				2052125
inferior conj	14874 Aug 19 04:02	11° Mp 36'43	2°23'32	inferior conj	14875 Aug 03 02:11	25° Ω 12'53	
minimum elong	14874 Aug 19 06:21	11° m 29'49	2°22'34	minimum elong	14875 Aug 03 03:52	25° Ω 07'29	2°51'30
min. Earth dist.	14874 Aug 21 07:54	9° ™ 02'33	0.65068 AU	min. Earth dist.	14875 Aug 04 15:42	23° Ω 12'25	0.66745 AU
morning rise	14874 Aug 25 02:07	5° Mp 14′22		morning rise	14875 Aug 08 16:12	18° Ω 47'19	
desc. node	14874 Aug 28 04:04	3° m 18'59		direct	14875 Aug 14 19:25	16° Ω 09'51	
direct	14874 Aug 31 13:43	2° My 36'38		desc. node	14875 Aug 15 01:32	16° Ω 10′06	
morning max el	14874 Sep 14 01:28	10° m 31'08	27°11'59	morning max el	14875 Aug 27 12:45	23° Ω 44'22	26°06'36
	14874 Sep 29 11:20	0∘ 亚			14875 Sep 02 03:01	0° m)	
	14874 Oct 17 09:05	0° M .			14875 Sep 22 20:15	0∘ ত	
morning set	14874 Oct 19 13:32	4°ML11'13		morning set	14875 Oct 02 11:35	16° ≏ 52'17	
asc. node	14874 Oct 22 11:44	9°M58'39		max. Earth dist.	14875 Oct 06 06:00	24° £ 00′26	1.35106 AU
max. Earth dist.	14874 Oct 23 22:05		1.33303 AU	asc. node	14875 Oct 09 08:22	0°ML06'19	
max. Lutin dist.	11071 000 23 22.03	12 11033 11	1.55505 110	use. Houe	14875 Oct 09 07:06	0°M	
superior conj	14874 Oct 27 22:18	21°ML15'37	0048158		140/3 000 07 07.00	O III	
minimum elong			0°49'18	superior conj	14975 Oat 11 19:16	49 m 50107	0°22'12
minimum eiong	14874 Oct 27 20:09	21°M04'13	0 49 18	1 3	14875 Oct 11 18:16	4°M59'07	
	14874 Nov 01 00:07	0° ⊼ ¹		minimum elong	14875 Oct 11 17:02	4°M52'48	0°22'27
evening rise	14874 Nov 04 00:51	6° ∡ ¹29'56		evening rise	14875 Oct 19 09:17	20°M50'01	
	14874 Nov 16 10:08	0°ಕ			14875 Oct 23 21:45	0° ∡ ¹	
desc. node	14874 Nov 24 00:47	10° る 02'32		evening max el	14875 Nov 06 23:54	21° х 33'33	20°37'02
evening max el	14874 Nov 25 03:21	11° る 10'09	22°08'08	desc. node	14875 Nov 10 21:58	24° ₰ ¹47'08	
retrograde	14874 Dec 07 18:25	17° る 25'07		retrograde	14875 Nov 18 04:50	27° ₮ 07'56	
evening set	14874 Dec 11 04:42	16° る 59'07		evening set	14875 Nov 20 13:12	26° ₹ 54'21	
inferior conj	14874 Dec 19 18:57	13° る 06'15	-5°57'53	inferior conj	14875 Nov 29 10:30	23° ∡ 00'14	-5°10'35
minimum elong	14874 Dec 19 16:12	13° ප 10'06	5°56'44	minimum elong	14875 Nov 29 00:59	23° ∡ 13′58	5°07'28
min. Earth dist.	14874 Dec 19 09:31	13° る 19'27	0.54534 AU	min. Earth dist.	14875 Nov 30 15:16	22° ҂ 18'39	0.54599 AU
morning rise	14874 Dec 28 04:39	9° ට 19'01		morning rise	14875 Dec 07 12:39	19° ∡ ¹03'23	
direct	14874 Dec 31 15:08	8° る 52'45		direct	14875 Dec 11 23:13	18° ∡ 21'07	
morning max el	14875 Jan 12 18:51	14°る43'40	219/2/31	morning max el	14875 Dec 25 06:48	24° × 750'49	23°29'35
asc. node	14875 Jan 18 11:16	14 84340 21° 8 19'05	±1 ¬∠J1	morning max or	14875 Dec 29 23:58	24 メ ・3049	
asc. nout				asa nodo		9° ろ 00'56	
	14875 Jan 24 02:05	0°≈ 188••07!04		asc. node	14876 Jan 05 08:30		
morning set	14875 Feb 02 09:47	18° ≈ 07'04			14876 Jan 16 13:03	0° ≈	
	14875 Feb 08 00:24	0° ∀		morning set	14876 Jan 17 21:31	2° ≈ 52′10	
superior conj	14875 Feb 09 13:53	3° ∺ 17'09	1°18'41	superior conj	14876 Jan 24 18:24	17° ≈ 45'46	1°31'06
minimum elong	14875 Feb 09 16:15	3° ¥ 29'30	1°18'57	minimum elong	14876 Jan 24 19:58	17° ≈ 54'15	1°31'44
max. Earth dist.	14875 Feb 13 21:39	12°) 09'44	1.34684 AU	max. Earth dist.	14876 Jan 27 16:54	24° ≈ 02'46	1.33049 AU
evening rise	14875 Feb 18 02:18	20°) € 22'03			14876 Jan 30 13:37	0°) €	
desc. node	14875 Feb 20 01:18	24° ∺ 02'50		evening rise	14876 Feb 01 12:44	3° ¥ 57'48	
				J		_	

morning max el

asc. node

14876 Dec 05 16:11

14876 Dec 22 05:39

14876 Dec 23 15:08

4°**х** 46'34 25°17'07

asc. node

27°**∡**¹29'35

0°る

14877 Nov 29 07:17

14877 Dec 09 02:42

14877 Dec 15 19:49

0°**∡**7

0°정

16°**х** 33′00

morning set	14877 Dec 16 19:16	2° る 04'58		morning max el	14878 Oct 30 04:50	26° £ 05'11	27°41'57
	14077 D 22 14 24	170705101	1027115		14878 Nov 02 21:08	0°M 0°. 7	
superior conj	14877 Dec 23 14:24	17°る05'01 17°る02'04	1°37'15	1-	14878 Nov 22 19:36	0° द्र ⁷ 6° द्र ⁷ 01'19	
minimum elong	14877 Dec 23 13:52		1°38'13	asc. node	14878 Nov 25 23:40	16° × 22'50	
max. Earth dist.	14877 Dec 24 01:49 14877 Dec 29 11:07	18°る08'49 0°≈	1.31229 AU	morning set	14878 Dec 01 01:44 14878 Dec 07 07:22	16° x '22'30	
ovoning rigo	14877 Dec 29 11:07 14877 Dec 30 11:26	0 ≈ 2°≈09'44		max. Earth dist.	14878 Dec 07 07:22 14878 Dec 07 09:48		1.31106 AU
evening rise desc. node	14878 Jan 10 15:15	2 ≈09 44 23°≈44'40		max. Earm dist.	148/8 Dec 0/ 09.48	0 01337	1.51100 AU
desc. Hode	14878 Jan 14 09:17	0°)		superior conj	14878 Dec 08 01:53	1°る43'28	1°31'21
avaning may al	14878 Jan 30 12:00	0 X 20° ¥ 48'45	27°12'13	minimum elong	14878 Dec 08 01:33	1°る43 28	
evening max el retrograde	14878 Feb 13 12:09	28°\(\frac{4845}{06'05}\)	27 12 13	evening rise	14878 Dec 14 18:54	16° る 33'43	1 32 14
evening set	14878 Feb 20 05:50	26°\(\frac{1}{10003}\)		evening rise	14878 Dec 21 08:29	0°≈	
min. Earth dist.	14878 Feb 24 02:30	20 \(\frac{1}{100}\) 20 \(\frac{1}{20}\) 23° \(\frac{1}{120}\) 22'20	0.60279 AU	desc. node	14878 Dec 28 12:05	0 ≈ 12°≈43'32	
inferior conj	14878 Feb 27 07:03	20°\(\frac{1}{41}\)'25		desc. node	14879 Jan 10 06:12	0°) €	
minimum elong	14878 Feb 27 07:03	20 X 41 23 20° X 29'52		evening max el	14879 Jan 10 00:12	0 X 2° X 12'27	26015100
morning rise	14878 Mar 06 22:34	20 X 2932 15° X 53'18	2 2007	retrograde	14879 Jan 26 10:00	2 X 1227 9° X 17'49	20 13 00
asc. node	14878 Mar 07 00:12	15° X 52'14		evening set	14879 Feb 01 17:03	7°) (43'14	
direct	14878 Mar 08 23:51	15° X 32'14		min. Earth dist.	14879 Feb 06 00:18	5° H 06'05	0.58105 AU
morning max el	14878 Mar 16 07:01	19° ¥ 15′27	17°50'55	inferior conj	14879 Feb 09 02:18	2° ¥ 51′21	
morning max ci	14878 Mar 24 03:44	0° Υ	17 39 33	minimum elong	14879 Feb 09 10:48	2°\(\frac{7}{35'50}\)	
morning set	14878 Mar 31 20:39	13° Y '43'58		minimum clong	14879 Feb 13 08:53	2 / (33 30 30°R ≈	3 32 30
desc. node	14878 Apr 08 17:15	28° Y '03'44		morning rise	14879 Feb 17 07:38	28°≈24'34	
desc. Hode	14878 Apr 09 19:22	0° 8		direct	14879 Feb 19 07:40	28°≈11'14	
	14676 Apr 09 19.22	0.0		asc. node	14879 Feb 21 21:39	28°≈34'33	
superior conj	14878 Apr 11 02:23	2° 8 16'54	-0°19'12	asc. nouc	14879 Feb 24 20:40	20 ≈ 34 33	
minimum elong	14878 Apr 11 00:44	2° 8 09'38		morning max el	14879 Feb 27 15:40	2°) 17′26	18°33'19
max. Earth dist.	14878 Apr 18 15:29	15° 8 09'42	1.42395 AU	morning max er	14879 Mar 15 14:36	27° H 51'04	16 33 19
evening rise	14878 Apr 24 06:00	24° 8 15'52	1.42393 AU	morning set	14879 Mar 16 17:20	27 γ (3104	
evening rise	14878 Apr 27 21:34	0°Ⅱ			146/9 Widi 10 17.20	0 1	
	14878 May 18 16:42	0° ©		superior conj	14879 Mar 24 14:33	15° Y ′00'12	0°16'10
evening max el	14878 May 27 04:45	9° © 58'20	22°22'52	minimum elong	14879 Mar 24 15:39	15°Υ05'18	0°15'48
asc. node	14878 Jun 02 21:20	14° © 59'58	22 22 32	behind sun begin	14879 Mar 24 14:48	15° Υ 01'18	0 13 46
retrograde	14878 Jun 05 22:21	15° © 41'00		behind sun end	14879 Mar 24 16:31	15° Υ 09'18	
evening set	14878 Jun 10 17:42	13°540'22		desc. node	14879 Mar 26 13:50	18° Y '37'37	
inferior conj	14878 Jun 16 00:20	7°9519'47	3°01'46	max. Earth dist.	14879 Apr 01 00:14	28° Υ 17'17	1.40252 AU
minimum elong	14878 Jun 15 23:13	7°523'44	3°00'38	max. Earth dist.	14879 Apr 02 00:03	0° 8	1.40232 AU
min. Earth dist.	14878 Jun 15 21:07	7°931'02	0.69045 AU	evening rise	14879 Apr 02 00:03	5° 8 22'42	
morning rise	14878 Jun 21 04:33	1°907'06	0.09043 AU	evening rise	14879 Apr 03 04:23	9 О 22 42	
morning rise	14878 Jun 22 18:42	1 3 07 00		evening max el	14879 May 09 19:31	23° ∏ 51'59	23°44'04
direct	14878 Jun 25 20:28	29° Ⅱ 09'50		evening max er	14879 May 18 18:11	0°95	23 44 04
direct	14878 Jun 29 03:54	0°95		retrograde	14879 May 20 17:05	0°9315'55	
morning max el	14878 Jul 05 00:13	4° © 30'28	21°48'04	asc. node	14879 May 20 18:29	0° © 15'55	
desc. node	14878 Jul 05 17:33	5°9514'46	21 40 04	asc. node	14879 May 20 13:52	30°RⅡ	
desc. node	14878 Jul 24 10:49	0°Ω		evening set	14879 May 26 00:04	28° ∏ 01'22	
morning set	14878 Aug 06 07:56	19° Ω 44'13		min. Earth dist.	14879 May 30 17:42	22° ∏ 29'04	0.68856 AU
max. Earth dist.	14878 Aug 12 06:58	29° Ω 24'21	1.41963 AU	inferior conj	14879 May 31 09:47	21° I I33'59	2°43'13
max. Latur dist.	14878 Aug 12 15:35	0° m)	1. 4 1703 A0	minimum elong	14879 May 31 07:58	21° П 40'12	
	14070 Aug 12 13.33	עוו ט		morning rise	14879 Jun 05 15:51	15° ∏ 29'30	2 41 34
superior conj	14878 Aug 19 23:13	12° Tp 26'56	-1°20'29	direct	14879 Jun 09 19:29	13° ∏ 52'18	
minimum elong	14878 Aug 20 05:32	12° m/ 54'28		morning max el	14879 Jun 17 19:39	18° Ⅱ 24'36	20°29'36
asc. node	14878 Aug 29 22:06	0° Ω 21'03	. 2002	desc. node	14879 Jun 22 14:42	23° I I50'16	_0 _, 50
use. Houe	14878 Aug 29 17:31	0∘ ⊽		desc. Hode	14879 Jun 27 06:56	0°95	
evening rise	14878 Aug 30 19:19	° - 1° - 258'27		morning set	14879 Jul 16 18:03	28°5947'06	
evening max el	14878 Sep 15 19:42	27° Ω 24'09	18°10'00	morning sec	14879 Jul 17 12:54	0°€	
evening max er	14878 Sep 19 04:03	0°M.	10 10 00	max. Earth dist.	14879 Jul 25 16:31	12° Ω 50'35	1.43886 AU
retrograde	14878 Sep 22 21:58	1°M01'27		max. Darm dist.	11079 341 23 10.31	12 000000	1.15000710
evening set	14878 Sep 25 02:36	0°M41'12		superior conj	14879 Aug 01 00:55	23° Ω 11'19	-1°51'30
2. J	14878 Sep 26 19:01	ა 11041 12 30°Ŗ Ω		minimum elong	14879 Aug 01 08:26	23°Ω42'30	
desc. node	14878 Oct 01 14:07	26° £ 33'23			14879 Aug 01 08:20	0°m)	1 01 01
inferior conj	14878 Oct 02 08:26	25° ⊆ 53'28	-0°14'25	evening rise	14879 Aug 13 13:03	14° Mp 32'02	
minimum elong	14878 Oct 02 03:20	25° ⊆ 54'33		asc. node	14879 Aug 16 18:43	20° mg 10'29	
transit middle	14878 Oct 02 07:56	25° ⊆ 54'33		200. 2000	14879 Aug 22 14:12	20°Ω 0°Ω	
transit begin	14878 Oct 02 07:30	25° ⊆ 58'23	3 13 33	evening max el	14879 Aug 30 09:19	0 = 10° • 34'09	18°02'01
transit end	14878 Oct 02 00:11	25° ⊆ 50'43		retrograde	14879 Sep 05 21:45	10 ⊆ 5409	10 02 01
min. Earth dist.	14878 Oct 02 09:41 14878 Oct 05 14:47	23° ⊆ 02'21	0.59461 AU	evening set	14879 Sep 08 10:20	13° ⊆ 3047	
morning rise	14878 Oct 09 09:55	20° £ 16'39	J.57 101 AU	inferior conj	14879 Sep 14 23:49	8° £ 18'25	1°02'53
direct	14878 Oct 15 21:55	18° £ 19'27		minimum elong	14879 Sep 14 23:49 14879 Sep 15 01:33	8° ⊆ 1623	1°02'33
311000	11070 000 13 21.33	10 -1/2/		Clong	11077 Sep 13 01.33	J — 1702	1 0217

min. Earth dist.	14879 Sep 17 23:18	5° ≏ 19'07	0.61754 AU	inferior conj	14880 Aug 28 06:07	21°M)17'02	1°59'30
desc. node	14879 Sep 18 11:36	4° ≙ 49'55		minimum elong	14880 Aug 28 08:31	21°Mp 10'14	1°58'33
morning rise	14879 Sep 21 14:10	2° ₽ 16'10		min. Earth dist.	14880 Aug 30 17:47	18° m) 28'57	0.63928 AU
	14879 Sep 27 06:42	30°R, Mp		morning rise	14880 Sep 03 09:42	14° m 59'15	
direct	14879 Sep 28 06:20	29° m 57'04		desc. node	14880 Sep 04 09:05	14° m) 16'55	
	14879 Sep 29 06:16	0∘ ⊽		direct	14880 Sep 10 00:11	12° m 25'46	
morning max el	14879 Oct 12 10:08	7° ≙ 54'14	27°58'54	morning max el	14880 Sep 23 19:53	20° m 25'27	27°38'28
	14879 Oct 29 08:53	0° M .			14880 Oct 02 02:03	0∘ ত	
asc. node	14879 Nov 12 20:32	25° M 47'35			14880 Oct 21 10:35	0° M	
	14879 Nov 14 22:20	0° ∡ ¹		morning set	14880 Oct 28 19:32	13° M 57'04	
morning set	14879 Nov 15 02:37	0° ∡ ¹22'00		asc. node	14880 Oct 29 17:18	15° M 46'04	
max. Earth dist.	14879 Nov 20 15:11	12° ₺ 08'18	1.31525 AU	max. Earth dist.	14880 Nov 02 14:08	23°M44'46	1.32490 AU
superior conj	14879 Nov 22 11:50	16° ∤ 14'00	1°19'33	superior conj	14880 Nov 05 18:14	0° ∡ ′31′26	1°01'51
minimum elong	14879 Nov 22 09:43	16° ∡ ′02′18	1°20'14	minimum elong	14880 Nov 05 15:56	0° ∡ 18'56	1°02'17
	14879 Nov 28 17:28	0°₹			14880 Nov 05 12:25	0° ∡ ¹	
evening rise	14879 Nov 29 05:04	1° る 02'48		evening rise	14880 Nov 12 16:04	15° ∡ ³32'30	
	14879 Dec 14 17:50	0° ≈			14880 Nov 19 18:22	0°₹	
desc. node	14879 Dec 15 09:01	0° ≈ 56′29		desc. node	14880 Dec 01 06:02	18° る 07'04	
evening max el	14879 Dec 25 01:18	12° ≈ 44'43	24°48'24	evening max el	14880 Dec 05 10:54	22° る 45'24	23°06'33
retrograde	14880 Jan 07 19:16	19° ≈ 37′02		retrograde	14880 Dec 18 15:56	29° る 18'39	
evening set	14880 Jan 13 06:10	18° ≈ 31′03		evening set	14880 Dec 22 20:54	28° る 40'12	
min. Earth dist.	14880 Jan 18 13:11	15° ≈ 44'44	0.56219 AU	min. Earth dist.	14880 Dec 29 20:37	25° る 25'12	0.54912 AU
inferior conj	14880 Jan 21 00:38	14° ≈ 10′33	-5°13'24	inferior conj	14880 Dec 31 03:32	24° る 40'49	-5°57'22
minimum elong	14880 Jan 21 09:13	13° ≈ 56′56	5°10'48	minimum elong	14880 Dec 31 06:11	24° る 37'00	5°56'17
morning rise	14880 Jan 29 14:30	10° ≈ 05'13		morning rise	14881 Jan 08 16:58	20°る50'52	
direct	14880 Jan 31 20:22	9° ≈ 51'19		direct	14881 Jan 11 14:16	20° る 31'14	
asc. node	14880 Feb 08 19:05	12° ≈ 59'51		morning max el	14881 Jan 22 21:46	25° る 57'09	20°47'32
morning max el	14880 Feb 10 13:42	14° ≈ 34′07	19°28'51	asc. node	14881 Jan 25 16:27	28° る 55'52	
	14880 Feb 21 07:55	0° ∀			14881 Jan 26 13:31	0° ≈	
morning set	14880 Feb 27 17:02	12° ₩ 19'14		morning set	14881 Feb 11 00:54	26° ≈ 59'25	
					14881 Feb 12 11:41	0° ∀	
superior conj	14880 Mar 06 18:57	28° ∺ 26'59	0°45'40				
minimum elong	14880 Mar 06 21:22	28°) 38'46	0°45'24	superior conj	14881 Feb 18 11:22		1°08'32
	14880 Mar 07 14:04	0° Υ		minimum elong	14881 Feb 18 13:59	12° ¥ 39′00	1°08'35
desc. node	14880 Mar 12 10:22	9° Ƴ 10'47		max. Earth dist.	14881 Feb 23 15:00	22°) 42′34	1.35801 AU
max. Earth dist.	14880 Mar 13 06:43	10° Ƴ 44'17	1.37972 AU	desc. node	14881 Feb 27 06:54	29°) 39'48	
evening rise	14880 Mar 16 23:29	17° Y ′22'05			14881 Feb 27 11:16	0° Y	
	14880 Mar 24 11:29	0°8		evening rise	14881 Feb 27 12:40	0° Y 06'30	
	14880 Apr 14 10:06	Π °0			14881 Mar 17 15:33	0° 8	
evening max el	14880 Apr 21 08:59	7° Ⅱ 45'39	25°02'52	evening max el	14881 Apr 03 22:30	21° 8 35'56	26°12'05
retrograde	14880 May 03 07:55	14° Ⅱ 42'59		retrograde	14881 Apr 16 18:01	28° 8 55'22	
asc. node	14880 May 06 15:42	13° Ⅱ 56′08		evening set	14881 Apr 22 23:05	26° 8 23'56	
evening set	14880 May 09 02:26	12° Ⅱ 17'43		asc. node	14881 Apr 23 13:00	25° 8 53'58	
min. Earth dist.	14880 May 13 12:05	7° Ⅱ 22'04	0.68196 AU	min. Earth dist.	14881 Apr 27 02:17	22° 8 03'40	0.67084 AU
inferior conj	14880 May 14 17:01	5° Ⅱ 47'02	2°14'10	inferior conj	14881 Apr 28 19:59	19° 8 54'52	1°34'04
minimum elong	14880 May 14 14:51	5° Ⅱ 54'08	2°12'44	minimum elong	14881 Apr 28 18:00	20° 8 01'01	1°32'43
	14880 May 19 23:04	30° ₹ 8		morning rise	14881 May 04 13:47	14° 8 10'18	
morning rise	14880 May 20 03:35	29° 8 51'54		direct	14881 May 07 18:48	13° 8 11'58	
direct	14880 May 23 19:29	28° 8 34'55		morning max el	14881 May 14 08:16	16° 8 41'56	18°35'05
	14880 May 27 22:01	0°Щ			14881 May 24 12:30	0°Щ	
morning max el	14880 May 30 22:27	2° Ⅱ 29'33	19°24'28	desc. node	14881 May 26 08:40	2° Ⅱ 47'19	
desc. node	14880 Jun 08 11:44	13° Ⅱ 04'31		morning set	14881 Jun 04 13:40	17° Ⅱ 07'38	
greatest brilliancy	14880 Jun 12 14:00		-0.7m		14881 Jun 12 19:02	0 \circ	
	14880 Jun 19 21:53	0.20		max. Earth dist.	14881 Jun 20 02:39	11° © 24'58	1.45881 AU
morning set	14880 Jun 24 21:02	7° © 35'50	1 45000 477		14001 7 20 12 70	12000000	2011110
max. Earth dist.	14880 Jul 07 07:51	26°956'11	1.45232 AU	superior conj	14881 Jun 20 13:58	12°509'07	
	14880 Jul 09 06:28	0 ° Ω		minimum elong	14881 Jun 20 10:28	11°955'27	Z~1Z'44
	14000 1 1 11 02 10	20 0 57142	2010/50	.	14881 Jul 01 23:07	0°N	
superior conj	14880 Jul 11 03:18	2° Ω 57'43		evening rise	14881 Jul 06 05:43	6° Ω 46'02	0.9-
minimum elong	14880 Jul 11 07:25	3° Ω 14'05	2*11′35	greatest brilliancy	14881 Jul 14 00:37	19° Ω 05'41	-0.8m
evening rise	14880 Jul 25 09:44	26° Ω 10'19		asc. node	14881 Jul 20 12:00	28° Ω 56'40	
	14880 Jul 27 17:06	0° m)			14881 Jul 21 05:40	0° M)	10040140
asc. node	14880 Aug 02 15:20	9° Mp 44'18	1001212.5	evening max el	14881 Jul 27 12:24	7° Mp 47'00	18°40'49
evening max el	14880 Aug 12 23:52	24° Mp 04'16	18°12'35	retrograde	14881 Aug 03 02:07	11° Th 20'50	
retrograde	14880 Aug 19 08:30	27° Th 26'00		evening set	14881 Aug 06 08:14	10° Mp 20'22	2027141
evening set	14880 Aug 22 05:35	26° Mp 41'20		inferior conj	14881 Aug 11 23:25	4° Mp 41'13	2-3/41

minimum elong	14881 Aug 12 01:31	4° m/34'43	2°36'43	evening set	14882 Jul 21 15:19	24° Ω 17'34	
min. Earth dist.	14881 Aug 13 21:16	2°m)19'53	0.65822 AU	inferior conj	14882 Jul 27 00:31	$18^{\circ}\Omega 25'01$	3°00'17
mm. Latti dist.	14881 Aug 15 22:20	30°RΩ	0.03022710	minimum elong	14882 Jul 27 01:50	18°Ω20'43	2°59'22
morning rise	14881 Aug 17 17:46	28°Ω16'29		min. Earth dist.	14882 Jul 28 08:05	16° Ω 41'07	0.67328 AU
desc. node	14881 Aug 22 06:35	25°Ω49'58		morning rise	14882 Aug 01 11:47	11° Ω 59'34	
direct	14881 Aug 24 02:07	25° Ω 37'39		direct	14882 Aug 07 10:44	9° Ω 24'21	
	14881 Sep 02 13:27	0° m		desc. node	14882 Aug 09 04:02	9° Ω 35'41	
morning max el	14881 Sep 06 07:10	3°m/26'31	26°46'53	morning max el	14882 Aug 19 18:07	16° Ω 46'15	25°33'06
-	14881 Sep 26 10:23	0∘ ⊽		_	14882 Aug 30 18:26	0° m)	
morning set	14881 Oct 12 01:27	27° ♀ 00'02			14882 Sep 19 08:49	0∘ ⊽	
	14881 Oct 13 14:52	0° M		morning set	14882 Sep 24 16:48	9° ჲ 22'53	
max. Earth dist.	14881 Oct 16 03:26	4°M58'39	1.34000 AU	max. Earth dist.	14882 Sep 28 07:09	16° ჲ 02'05	1.35996 AU
asc. node	14881 Oct 16 13:57	5° ™ 51'21		asc. node	14882 Oct 03 10:34	25° ≏ 59'55	
superior conj	14881 Oct 20 18:46	14° M 28′59	0°38'17	superior conj	14882 Oct 04 10:41	28° ≏ 00'20	0°09'16
minimum elong	14881 Oct 20 16:54	14°M19'13	0°38'34	minimum elong	14882 Oct 04 10:07	27° ≏ 57'28	0°09'33
evening rise	14881 Oct 28 01:58	29°M57'02		behind sun begin	14882 Oct 04 05:02	27° △ 31'59	
	14881 Oct 28 02:32	0° ∡ ¹		behind sun end	14882 Oct 04 15:13	28° ≏ 23'00	
	14881 Nov 14 10:05	0°る	21027125		14882 Oct 05 10:29	0°M	
evening max el	14881 Nov 17 00:56	2°る50'33	21°2/25	evening rise	14882 Oct 12 08:46	14°M11'52	
desc. node	14881 Nov 18 03:10	3°る52'21 8°る50'05			14882 Oct 20 12:14	0° ✓ 123.723.02	20904120
retrograde	14881 Nov 29 03:17	8°る30'57		evening max el desc. node	14882 Oct 30 03:33	13° х 33'02 17° х 46'43	20*04*20
evening set inferior conj	14881 Dec 02 00:39 14881 Dec 10 19:16	8° ろ 30'37 4° ろ 39'10	5045102	retrograde	14882 Nov 05 00:24 14882 Nov 09 15:38	1/° x '46'43	
minimum elong	14881 Dec 10 19:10		5°43'13	evening set	14882 Nov 11 17:33	18° ₹ 35'34	
min. Earth dist.	14881 Dec 10 12:32	4°る29'09	0.54439 AU	inferior conj	14882 Nov 20 13:56	14° × 33' 34' 14° × 37'39	-4°35'06
morning rise	14881 Dec 19 01:38	4 02909 0°る50'04	0.54439 AU	minimum elong	14882 Nov 20 13:50	14 × 37 39 14° × 52'48	4°31'18
direct	14881 Dec 22 22:10	0°る17'48		min. Earth dist.	14882 Nov 22 09:23	13°×32'21	0.54912 AU
morning max el	14882 Jan 04 15:35	6° る 26'43	22°26'45	morning rise	14882 Nov 28 13:07	10° × 32'21'	0.54712710
asc. node	14882 Jan 12 13:44	16° る 03'52	22 20 .0	direct	14882 Dec 03 09:34	9°×739'05	
use. Houe	14882 Jan 20 17:27	0°≈		morning max el	14882 Dec 17 01:04	16° х 23′40	24°16'17
morning set	14882 Jan 26 11:47	11° ≈ 43'56		5 8 5	14882 Dec 27 21:33	0°ප	
Ü				asc. node	14882 Dec 30 10:57	4° ට 07'11	
superior conj	14882 Feb 02 12:17	26° ≈ 45'28	1°24'43	morning set	14883 Jan 10 23:44	26° る 27'28	
minimum elong	14882 Feb 02 14:21	26°≈56'28	1°25'09		14883 Jan 12 15:03	0° ≈	
	14882 Feb 04 01:07	0° ∀					
max. Earth dist.	14882 Feb 06 05:27	4°) 31′48	1.33937 AU	superior conj	14883 Jan 17 18:55	11° ≈ 18′38	1°34'26
evening rise	14882 Feb 10 16:19	13°) €25'57		minimum elong	14883 Jan 17 20:04	11° ≈ 24'54	1°35'12
desc. node	14882 Feb 14 03:27	19° ¥ 59'57		max. Earth dist.	14883 Jan 20 03:50	16° ≈ 27'17	1.32498 AU
	14882 Feb 19 18:38	0° Y		evening rise	14883 Jan 25 07:09	27° ≈ 12′08	
	14882 Mar 12 13:59	$0^{\circ}S$			14883 Jan 26 16:39	0° ∀	
evening max el	14882 Mar 17 12:10	5° 8 14'59	27°04'21	desc. node	14883 Feb 01 00:03	10° ∺ 06'39	
retrograde	14882 Mar 30 22:19	12° 8 44'16			14883 Feb 13 01:32	0° Υ	
evening set	14882 Apr 06 12:04	10° 8 12'38		evening max el	14883 Feb 28 00:52	18° Ƴ 31'55	27°32'15
asc. node	14882 Apr 10 10:22	6° 8 25'17		retrograde	14883 Mar 13 19:41	26° Y ′00'41	
min. Earth dist.	14882 Apr 10 10:17	6° 8 25'32	0.65555 AU	evening set	14883 Mar 20 15:04	23° Y 35'37	
inferior conj	14882 Apr 12 16:24	3° 8 51'38	0°42'01	min. Earth dist.	14883 Mar 24 10:04	20° Υ 18'17 17° Υ 30'26	
minimum elong	14882 Apr 12 15:18	3° 8 54'46	0°41'07	inferior conj	14883 Mar 27 03:31 14883 Mar 27 04:14	17° Y '30'26	
marning rise	14882 Apr 16 09:47 14882 Apr 18 20:07	30° ₹Υ 28° Υ 19'24		minimum elong asc. node	14883 Mar 27 04:14 14883 Mar 28 07:50	1/° \ 28'35 16°\ 18'36	0-2237
morning rise direct	14882 Apr 21 15:23	28 1 19 24 27° Υ 37'02		morning rise	14883 Apr 02 19:45	10 1 18 30 12° Υ 12'57	
direct	14882 Apr 26 23:07	0° 8		direct	14883 Apr 05 06:37	11° Y 43'15	
morning max el	14882 Apr 27 23:14	0° 8 54'52	18°02'35	morning max el	14883 Apr 11 16:46		17°47'20
desc. node	14882 May 13 05:30	22° 8 50'41	10 02 33	morning max ci	14883 Apr 22 08:09	0°8	17 4720
morning set	14882 May 16 08:56	27° 8 57'38		morning set	14883 Apr 28 07:06	10° 8 04'43	
morning sec	14882 May 17 15:01	0°Ⅱ		desc. node	14883 Apr 30 02:13	13° 8 08'21	
	· · · · · · · · · · · · · · · · · ·	-			14883 May 10 04:33	0°II	
superior conj	14882 May 31 00:45	21° Ⅱ 27'44	-1°53'02		,	_	
minimum elong	14882 May 30 16:08	20° Ⅲ 53'49		superior conj	14883 May 11 03:19	1° Ⅲ 32'42	-1°20'03
max. Earth dist.	14882 Jun 02 22:42	26° Ⅱ 02'03	1.45781 AU	minimum elong	14883 May 10 19:38	1° Ⅱ 01'28	
	14882 Jun 05 11:41	0ಂಣ		max. Earth dist.	14883 May 16 17:53	10° Ⅲ 32'39	1.44952 AU
evening rise	14882 Jun 16 03:21	16° 5 29'13		evening rise	14883 May 26 14:20	25° Ⅱ 52'50	
	14882 Jun 24 23:06	$0^{\circ}\Omega$			14883 May 29 07:10	0ಂತಾ	
greatest brilliancy	14882 Jun 29 01:32	6° Ω 09'17	-0.7m		14883 Jun 19 04:07	$0^{\circ}\Omega$	
asc. node	14882 Jul 07 08:46	17° Ω 40′20		evening max el	14883 Jun 23 23:09	5° Ω 28'41	20°25'37
evening max el	14882 Jul 10 20:38	21° Ω 36'48	19°25'42	asc. node	14883 Jun 24 05:38	5° Ω 44'45	
retrograde	14882 Jul 17 23:34	25° Ω 35′08		retrograde	14883 Jul 01 22:29	10° Ω 02'32	

avanina aat	14002 Iul 06 00:22	8° Ω 27'27		rotro grado	14004 Jun 14 21:02	249@27!20	
evening set inferior conj	14883 Jul 06 00:32 14883 Jul 11 06:44	2°Ω22'41	3°09'44	retrograde evening set	14884 Jun 14 21:03 14884 Jun 19 09:58	24°537'30	
minimum elong	14883 Jul 11 06:44 14883 Jul 11 07:04	$2^{\circ}\Omega 21'34$	3°08'49	inferior conj	14884 Jun 24 15:47	22° © 45'33 16° © 30'01	3°07'43
min. Earth dist.	14883 Jul 11 07.04 14883 Jul 12 00:20	1° Ω 22'21	0.68378 AU	minimum elong	14884 Jun 24 15:09	16°932'14	3°06'42
min. Earth dist.	14883 Jul 12 00:20	30°RS	0.06576 AU	min. Earth dist.	14884 Jun 24 19:57	16°9515'28	0.68946 AU
morning rise	14883 Jul 16 13:17	26°©00'31		morning rise	14884 Jun 29 20:09	10°S13'30	0.06940 AU
direct	14883 Jul 22 00:46	23°536'24		direct	14884 Jul 04 19:11	8°905'42	
desc. node	14883 Jul 27 01:27	25°5013'07		desc. node	14884 Jul 12 22:46	12°9516'31	
desc. Hode	14883 Aug 01 21:56	23 3 1307		morning max el	14884 Jul 14 16:31	13°956'04	22°37'31
morning max el	14883 Aug 01 21:30 14883 Aug 02 04:39	0°Ω16'52	24006!52	morning max er	14884 Jul 27 15:58	0°Ω	22 3/31
morning max er	14883 Aug 02 04.39 14883 Aug 24 15:04	0°m)	24 00 32		14884 Aug 16 13:07	0°m)	
morning set	14883 Sep 06 13:17	20° Mp 55'23		morning set	•	1°Mp 28'23	
morning set	=	20 m/22'39	1.38312 AU	morning set	14884 Aug 17 10:51	-•	1 40697 ATT
max. Earth dist.	14883 Sep 10 05:53	0° ⊽	1.38312 AU	max. Earth dist.	14884 Aug 22 05:51	9° m 26'13	1.40687 AU
	14883 Sep 11 16:59	0-22		aumorior coni	14004 Aug 20 02:12	23° m 09'20	1900'00
superior conj	14883 Sep 17 14:34	10° ≏ 57'00	0°24'15	superior conj minimum elong	14884 Aug 30 02:13 14884 Aug 30 06:53	23° My 30'21	0°59'39
minimum elong	14883 Sep 17 14:34 14883 Sep 17 16:15	10 ≥ 3700 11° ≥ 05'02		minimum ciong	14884 Sep 02 20:05	0° ⊽	0 3939
C	•		0 23 32	4-	=		
asc. node	14883 Sep 20 07:08	16° Ω 07'54 28° Ω 10'32		asc. node	14884 Sep 06 03:42	6° Ω 11'48	
evening rise	14883 Sep 26 09:57			evening rise	14884 Sep 09 02:20	11° Ω 45'07	
	14883 Sep 27 08:10	0°M	10002140		14884 Sep 19 08:11	0°M	10022115
evening max el	14883 Oct 12 20:24	25°M04'38	19°02'49	evening max el	14884 Sep 25 00:36	7°M22'09	18°23'15
retrograde	14883 Oct 21 18:03	29°M33'13		retrograde	14884 Oct 02 15:52	11°M14'45	
desc. node	14883 Oct 22 21:44	29°M28'57		evening set	14884 Oct 04 16:25	10°M59'08	
evening set	14883 Oct 23 15:01	29°M22'07	2052144	desc. node	14884 Oct 08 19:10	9°M03'02	1000110
inferior conj	14883 Nov 01 00:26	25°M07'07		inferior conj	14884 Oct 12 08:33	6°M23'12	
minimum elong	14883 Oct 31 17:13	25°M₁9'33	2°49'15	minimum elong	14884 Oct 12 05:57	6°M28'28	1°06'35
min. Earth dist.	14883 Nov 03 20:28	23°M10'18	0.56239 AU	min. Earth dist.	14884 Oct 15 14:41	3°M46'29	0.58181 AU
morning rise	14883 Nov 08 16:42	20° M 26′15		morning rise	14884 Oct 19 15:59	1° M .04'53	
direct	14883 Nov 14 08:49	19° ™ 11'11			14884 Oct 22 03:59	30°Ŗ Ω	
morning max el	14883 Nov 28 11:43	26°M24'09	25°58'23	direct	14884 Oct 25 22:17	29° ≏ 22'55	
	14883 Dec 01 22:13	0° ∡ ¹			14884 Oct 29 18:29	0°M₊	
asc. node	14883 Dec 17 08:05	22° ∡ ′51'51		morning max el	14884 Nov 09 05:34	6° ™ 59'00	27°14'38
	14883 Dec 21 02:22	0°ಕ			14884 Nov 26 10:48	0° ∡ ¹	
morning set	14883 Dec 26 11:00	11° る 05'10		asc. node	14884 Dec 03 05:06	12° ∡ ¹06'46	
				morning set	14884 Dec 09 19:43	25° ∡ ³31'37	
superior conj	14884 Jan 02 05:00	25° る 58'32			14884 Dec 11 21:23	0°る	
minimum elong	14884 Jan 02 05:05	25° る 59'00	1°38'54				
max. Earth dist.	14884 Jan 03 08:35	28° පි 31'41	1.31541 AU	superior conj	14884 Dec 16 16:28	10° る 38'52	1°35'29
	14884 Jan 04 00:34	0° ≈		minimum elong	14884 Dec 16 15:31	10° る 33'34	1°36'26
evening rise	14884 Jan 09 06:18	11° ≈ 17'47		max. Earth dist.	14884 Dec 16 16:22	10° る 38'20	1.31104 AU
desc. node	14884 Jan 18 20:44	29° ≈ 53'58		evening rise	14884 Dec 23 11:18	25° る 36'08	
	14884 Jan 18 22:05	0° ∀			14884 Dec 25 13:23	0° ≈	
	14884 Feb 09 04:17	0° Y		desc. node	14885 Jan 04 17:30	19° ≈ 13′21	
evening max el	14884 Feb 10 10:13	1° Y 13′29	27°29'28		14885 Jan 11 14:58	0° ∀	
retrograde	14884 Feb 24 09:03	8° Y 35'39		evening max el	14885 Jan 22 13:19	13° 米 06′25	26°52'02
evening set	14884 Mar 02 05:24	6° Y ′24′22		retrograde	14885 Feb 05 13:10	20°) 19′13	
min. Earth dist.	14884 Mar 05 23:59	3° Y 31'03		evening set	14885 Feb 12 03:37	18° ¥ 29′07	
inferior conj	14884 Mar 09 02:04	0° Y 43′02	-1°39'39	min. Earth dist.	14885 Feb 16 03:19	15° ¥ 50′07	0.59333 AU
minimum elong	14884 Mar 09 05:36	0° Ƴ 34'59	1°38'07	inferior conj	14885 Feb 19 08:14	13°) 18′05	-3°05'39
	14884 Mar 09 21:06	30° Ŗ ₩		minimum elong	14885 Feb 19 15:08	13°) €04'23	3°02'43
asc. node	14884 Mar 14 05:18	26°) 41′06		morning rise	14885 Feb 27 06:01	8°) 39′15	
morning rise	14884 Mar 16 08:52	25°) 43′25		direct	14885 Mar 01 06:11	8°) 24′24	
direct	14884 Mar 18 13:02	25° ∺ 22'53		asc. node	14885 Mar 01 02:47	8° 升 24′28	
morning max el	14884 Mar 25 09:48	28° ¥ 50′25	17°49'57	morning max el	14885 Mar 08 22:41	12° ¥ 13′17	18°11'39
	14884 Mar 26 12:28	0° Y			14885 Mar 20 19:17	0° Y	
morning set	14884 Apr 10 02:47	23° Y 12'26		morning set	14885 Mar 24 14:00	7° Ƴ 01'43	
	14884 Apr 13 22:03	$0^{\circ}B$		desc. node	14885 Apr 02 19:27	24° Y ′08'20	
desc. node	14884 Apr 15 22:52	3° 8 35'50					
				superior conj	14885 Apr 03 06:05	24° Y ′56'16	-0°03'38
superior conj	14884 Apr 21 05:18	12° 8 43'28	-0°41'22	minimum elong	14885 Apr 03 05:47	24° Y ′54'53	0°03'55
minimum elong	14884 Apr 21 01:28	12° 8 27'07	0°41'22	behind sun begin	14885 Apr 02 22:25	24° Y ′21'44	
max. Earth dist.	14884 Apr 28 09:54	24° 8 41'18	1.43480 AU	behind sun end	14885 Apr 03 13:09	25° Y °27'57	
	14884 May 01 17:08	Π °0			14885 Apr 06 02:27	0° 8	
evening rise	14884 May 05 07:07	5° Ⅲ 38′50		max. Earth dist.	14885 Apr 10 20:48	8° 8 11'55	1.41515 AU
	14884 May 21 14:29	0 \circ \odot		evening rise	14885 Apr 15 17:14	16° 8 13'06	
evening max el	14884 Jun 05 19:49	19° © 20'35	21°37'34		14885 Apr 24 12:16	$\Pi^{\circ}0$	
asc. node	14884 Jun 10 02:38	22° © 56'58			14885 May 16 11:47	0 \circ \odot	

evening max el	14885 May 19 11:56	3° © 12'39	22°57'07		14886 Apr 18 00:26	0°Щ	
asc. node	14885 May 27 23:44	9° 5 00'34	22 3707	avaning may al	14886 May 02 01:51	0 H 17°H06'28	24°18'18
	14885 May 29 17:39	9°900'34 9°9514'05		evening max el	14886 May 13 11:01	23° II 46'28	24 16 16
retrograde	,			retrograde	,		
evening set	14885 Jun 03 17:57	7°907'01	0.60006.433	asc. node	14886 May 14 20:55	23° Ⅱ 37'48	
min. Earth dist.	14885 Jun 08 16:51	1°9513'25	0.69026 AU	evening set	14886 May 18 22:49	21° II 27'01	0.60620.441
inferior conj	14885 Jun 09 01:38	0°9542'55	2°55'09	min. Earth dist.	14886 May 23 12:51	16° Ⅱ 10'09	0.68630 AU
minimum elong	14885 Jun 09 00:11	0°9547'57	2°53'57	inferior conj	14886 May 24 10:23	14° Ⅱ 57'30	2°32'14
	14885 Jun 09 14:02	30°RⅡ		minimum elong	14886 May 24 08:22	15° Ⅱ 04'16	2°30'51
morning rise	14885 Jun 14 06:20	24° Ⅱ 33'33		morning rise	14886 May 29 18:02	8° Ⅱ 56'35	
direct	14885 Jun 18 16:51	22° I I44'58		direct	14886 Jun 02 16:31	7° Ⅲ 28'07	
morning max el	14885 Jun 27 08:27	27° Ⅱ 44'23	21°13'12	morning max el	14886 Jun 10 06:53	11° Ⅱ 43'20	19°59'57
	14885 Jun 29 11:38	0°€		desc. node	14886 Jun 16 17:06	19° Ⅱ 17'12	
desc. node	14885 Jun 29 19:59	0° © 23'30			14886 Jun 24 08:30	0 \circ	
	14885 Jul 21 04:53	0 $^{\circ}\Omega$		morning set	14886 Jul 07 12:57	19° 9 50'10	
morning set	14885 Jul 28 08:19	11° Ω 00'00			14886 Jul 14 02:11	0 \circ Ω	
max. Earth dist.	14885 Aug 04 11:02	22° Ω 21'48	1.42838 AU	max. Earth dist.	14886 Jul 17 22:43	6° Ω 04'52	1.44537 AU
	14885 Aug 09 01:55	0° m)					
				superior conj	14886 Jul 23 08:47	14° Ω 46'56	
superior conj	14885 Aug 11 17:16	4° m 27'49		minimum elong	14886 Jul 23 15:33	15° Ω 14′26	2°01'55
minimum elong	14885 Aug 12 00:29	4° m 58'34	1°34'17		14886 Aug 01 13:11	0° m y	
evening rise	14885 Aug 23 05:47	24° m 44'52		evening rise	14886 Aug 05 15:10	6° My 56′22	
asc. node	14885 Aug 24 00:17	26° Mp 07'59		asc. node	14886 Aug 10 20:52	15° m 51'32	
	14885 Aug 26 04:02	0∘ ⊽			14886 Aug 19 23:35	0∘ ত	
evening max el	14885 Sep 08 11:58	20° ≏ 16′29	18°04'17	evening max el	14886 Aug 23 02:26	3° ₽ 36'35	18°04'21
retrograde	14885 Sep 15 07:16	23° ≏ 46′08		retrograde	14886 Aug 29 12:05	6° ≏ 56'58	
evening set	14885 Sep 17 15:02	23° ≏ 21'51		evening set	14886 Sep 01 04:13	6° ₽ 20'30	
inferior conj	14885 Sep 24 13:35	18° ≏ 25'40	0°20'57	inferior conj	14886 Sep 07 11:47	1° ≏ 06'00	1°29'21
minimum elong	14885 Sep 24 14:15	18° ≏ 24'06	0°20'55	minimum elong	14886 Sep 07 13:58	1° ≏ 00'13	1°28'32
desc. node	14885 Sep 25 16:38	17° ≏ 21'59			14886 Sep 08 12:30	30°R, Mp	
min. Earth dist.	14885 Sep 27 17:58	15° ≏ 28'11	0.60431 AU	min. Earth dist.	14886 Sep 10 06:48	28° Mp 09'02	0.62708 AU
morning rise	14885 Oct 01 10:20	12° ≏ 36′29		desc. node	14886 Sep 12 14:09	25° m 58'21	
direct	14885 Oct 08 00:46	10° ≙ 29'00		morning rise	14886 Sep 13 21:26	24° m 56'05	
morning max el	14885 Oct 22 07:14	18° ≏ 21'34	27°54'01	direct	14886 Sep 20 13:44	22° m 29'27	
	14885 Nov 01 02:32	0°M			14886 Oct 04 02:42	0∘ ত	
	14885 Nov 19 04:49	0° ∡ ¹		morning max el	14886 Oct 04 14:35	0° ≏ 29'19	27°54'22
asc. node	14885 Nov 20 01:59	1° ∡¹ 43'50			14886 Oct 26 05:09	0° M .	
morning set	14885 Nov 24 00:03	9° ∡ ¹42'41		asc. node	14886 Nov 06 22:47	21°MJ35'49	
max. Earth dist.	14885 Nov 29 23:36	22° х 39′46	1.31209 AU	morning set	14886 Nov 07 21:48	23°M32'09	
					14886 Nov 11 00:34	0° ∡ ¹	
superior conj	14885 Dec 01 03:31	25° ∡ 15′01	1°27'05	max. Earth dist.	14886 Nov 13 02:24	4° ∡ ¹26'12	1.31867 AU
minimum elong	14885 Dec 01 01:45	25° ₹ ¹05'05	1°27'53				
	14885 Dec 03 06:37	0°ಕ		superior conj	14886 Nov 15 12:12	9° × 740'44	1°12'46
evening rise	14885 Dec 07 20:07	10° ට 02'58		minimum elong	14886 Nov 15 09:56	9° × 28'19	1°13'20
-	14885 Dec 17 21:10	0° ≈		evening rise	14886 Nov 22 06:48	24° ∡ ³32'42	
desc. node	14885 Dec 22 14:21	7° ≈ 54'41		_	14886 Nov 24 20:25	0°ප	
evening max el	14886 Jan 04 08:19	24° ≈ 06'39	25°41'08	desc. node	14886 Dec 09 11:18	25° ප් 43'21	
•	14886 Jan 12 20:37	0° ∀			14886 Dec 12 18:47	0° ≈	
retrograde	14886 Jan 18 06:16	1° ∺ 07'42		evening max el	14886 Dec 16 19:57	4° ≈ 22'12	24°05'57
_	14886 Jan 23 15:50	30° R ≈		retrograde	14886 Dec 30 10:03	11° ≈ 07'19	
evening set	14886 Jan 24 05:50	29° ≈ 45'01		evening set	14887 Jan 04 08:53	10° ≈ 13'56	
min. Earth dist.	14886 Jan 28 21:06	27° ≈ 06'03	0.57244 AU	min. Earth dist.	14887 Jan 10 07:30	7° ≈ 17'35	0.55573 AU
inferior conj	14886 Jan 31 18:40	25° ≈ 06'46	-4°31'14	inferior conj	14887 Jan 12 08:09	6° ≈ 04'07	-5°37'46
minimum elong	14886 Feb 01 03:47	24° ≈ 51'06	4°28'00	minimum elong	14887 Jan 12 15:00	5° ≈ 53'45	5°35'53
morning rise	14886 Feb 09 04:36	20° ≈ 49'35		morning rise	14887 Jan 20 22:55	2°≈06'03	
direct	14886 Feb 11 05:49	20° ≈ 36'40		direct	14887 Jan 23 10:04	1°≈50'26	
asc. node	14886 Feb 16 00:13	21° ≈ 50'59		asc. node	14887 Feb 02 21:36	6°≈56'28	
morning max el	14886 Feb 20 03:22	24°≈57'40	18°54'11	morning max el	14887 Feb 02 19:40	6° ≈ 51'47	19°59'31
5	14886 Feb 24 09:08	0°) €		U	14887 Feb 17 18:43	0° ∀	
morning set	14886 Mar 08 11:55	21°) 18'36		morning set	14887 Feb 20 16:58	5° ¥ 52'36	
<i>5</i>	14886 Mar 12 22:11	0°Υ		<i>5</i> ?			
				superior conj	14887 Feb 28 11:35	21° ¥ 40'42	0°56'11
superior conj	14886 Mar 17 01:40	7° Υ ′59'28	0°29'26	minimum elong	14887 Feb 28 14:11	21°) 53'42	
minimum elong	14886 Mar 17 03:29	8° Υ '08'05	0°29'05		14887 Mar 04 17:45	0°Υ	-
desc. node				Earth diet		3° Υ 11'10	1.37020 AU
	14886 Mar 20 15:59	14° (7'42'20		max. Earth dist.	1488 / Mar un 10:07	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.5/020 AU
max. Earth dist.	14886 Mar 20 15:59 14886 Mar 24 03:34	14° Υ 42'20 20° Υ 59'06	1.39280 AU	max. Earth dist. desc. node	14887 Mar 06 10:07 14887 Mar 07 12:30		1.57020 AU
	14886 Mar 24 03:34	20° Ƴ 59'06	1.39280 AU	desc. node	14887 Mar 07 12:30	5° Ƴ 14'12	1.37020 AU
max. Earth dist. evening rise			1.39280 AU				1.37020 AU

	14887 Apr 13 15:21	0°Щ			14888 Mar 14 18:20	0°B	
evening max el	14887 Apr 14 15:27	0 П 1°П00'29	25°34'04	evening max el	14888 Mar 27 05:14	14° 8 47'37	26°36'57
•		1 Щ00 29 8°Щ08'25	23 34 04	Č		22° 8 11'53	20 30 37
retrograde	14887 Apr 26 23:54			retrograde	14888 Apr 09 07:26	_	
asc. node	14887 May 01 18:10	6° Ⅱ 34'51		evening set	14888 Apr 15 16:35	19° 8 39'40	
evening set	14887 May 02 22:58	5° Ⅱ 40'13	0.63330 ATT	asc. node	14888 Apr 17 15:32	17° 8 51'59	0.66400.441
min. Earth dist.	14887 May 07 05:48	0° Ⅱ 59'36	0.67772 AU	min. Earth dist.	14888 Apr 19 17:31	15° 8 33'58	0.66480 AU
	14887 May 08 00:27	30°₹ 8		inferior conj	14888 Apr 21 16:34	13° 8 13'30	1°13'32
inferior conj	14887 May 08 16:05	29° 8 09'39	1°58'38	minimum elong	14888 Apr 21 14:51	13° 8 18'38	1°12'19
minimum elong	14887 May 08 13:56	29° 8 16'35	1°57'11	morning rise	14888 Apr 27 14:13	7° 8 33'58	
morning rise	14887 May 14 05:21	23° 8 18'34		direct	14888 Apr 30 15:05	6° 8 42'37	
direct	14887 May 17 16:34	22° 8 09'36		morning max el	14888 May 07 01:00	10° 8 05'36	18°19'17
morning max el	14887 May 24 12:44	25° 8 52'08	19°01'28	desc. node	14888 May 20 10:57	28° 8 37'33	
	14887 May 28 05:02	Π °0			14888 May 21 07:53	0°П	
desc. node	14887 Jun 03 14:05	8° Ⅱ 45'12		morning set	14888 May 26 22:47	8° Ⅱ 55'31	
greatest brilliancy	14887 Jun 06 16:24	13° Ⅱ 20'54	-0.7m		14888 Jun 09 07:21	0 \circ	
morning set	14887 Jun 16 19:31	28° Ⅱ 51'47					
	14887 Jun 17 13:10	0 \circ \odot		superior conj	14888 Jun 11 11:39	3° 5 24'18	-2°06'05
max. Earth dist.	14887 Jun 30 16:02	20° © 23'43	1.45604 AU	minimum elong	14888 Jun 11 05:15	2° © 59'21	2°06'46
				max. Earth dist.	14888 Jun 12 12:17	5° © 00'25	1.45934 AU
superior conj	14887 Jul 03 03:10	24° © 15'45	-2°13'44	evening rise	14888 Jun 27 11:21	28° © 20'33	
minimum elong	14887 Jul 03 04:16	24°520'04	2°14'41		14888 Jun 28 12:49	$0^{\circ}\Omega$	
	14887 Jul 06 18:25	$0^{\circ}\Omega$		greatest brilliancy	14888 Jul 07 14:47	14° Ω 06′06	-0.8m
evening rise	14887 Jul 18 01:39	18° Ω 09'04		asc. node	14888 Jul 14 14:15	24° Ω 19'10	
	14887 Jul 25 09:01	0° m y			14888 Jul 19 04:07	0° m y	
asc. node	14887 Jul 28 17:31	5° Mp 17'38		evening max el	14888 Jul 20 03:33	1° m 00'48	18°57'51
evening max el	14887 Aug 06 16:35	17° m) 14'00	18°22'26	retrograde	14888 Jul 26 21:48	4° m 43′28	
retrograde	14887 Aug 13 02:07	20° m/38'52		evening set	14888 Jul 30 08:00	3°m/35'39	
evening set	14887 Aug 16 03:05	19° m) 47'33		Ü	14888 Aug 03 02:28	30°RΩ	
inferior conj	14887 Aug 21 23:13	14° m) 16'44	2°17'45	inferior conj	14888 Aug 04 20:15	27° Ω 50'23	2°48'58
minimum elong	14887 Aug 22 01:35	14° m 09'46	2°16'46	minimum elong	14888 Aug 04 22:02	27° Ω 44'39	2°48'02
min. Earth dist.	14887 Aug 24 05:07	11° m 38'38	0.64788 AU	min. Earth dist.	14888 Aug 06 11:53	25°Ω44'18	0.66520 AU
morning rise	14887 Aug 27 22:41	7° m) 55'23		morning rise	14888 Aug 10 11:19	21° Ω 24'48	***************************************
desc. node	14887 Aug 30 11:39	6° m) 15'58		desc. node	14888 Aug 16 09:08	18° Ω 47'09	
direct	14887 Sep 03 11:11	5° m) 18'33		direct	14888 Aug 16 15:54	18° Ω 46'51	
morning max el	14887 Sep 17 01:06	13° m) 14'26	27°19'42	morning max el	14888 Aug 29 12:34	26°Ω25'36	26°17'40
morning max er	14887 Sep 30 13:41	0° ⊽	27 17 42	morning max cr	14888 Sep 01 20:07	0° m)	20 17 40
	14887 Oct 18 19:39	o <u>−</u> o∘m			14888 Sep 23 03:41	0∘ ⊽	
morning set	14887 Oct 22 10:24	6°M.54'14		morning set	14888 Oct 04 10:40	0 — 19° ≏ 41'48	
asc. node	14887 Oct 24 19:30	11°M37'44		max. Earth dist.	14888 Oct 04 10:40	27° 2 02'18	1.34804 AU
max. Earth dist.	14887 Oct 26 21:29		1.33077 AU	max. Earm dist.	14888 Oct 08 00:30	0°M₁	1.54604 AU
max. Earm dist.	1400/ Oct 20 21.29	15 1163243	1.550// AU	asc. node	14888 Oct 10 16:09	1°ML45'15	
	14007 0-+ 20 16-24	229M 50126	0053133	asc. node	14888 OCI 10 10.09	1 11643 13	
superior conj	14887 Oct 30 16:24	23°M50'36	0°52'32		14000 0 4 12 12 41	7°M38'25	0°26'36
minimum elong	14887 Oct 30 14:11	23°M38'47	0°52'55	superior conj	14888 Oct 13 13:41		
	14887 Nov 02 13:07	0° द्र ⁷ 9° द्र ⁷ 00'59		minimum elong	14888 Oct 13 12:15	7°M31'03	0°26'52
evening rise	14887 Nov 06 17:34			evening rise	14888 Oct 21 02:30	23°M22'57	
	14887 Nov 17 12:47	0°る			14888 Oct 24 07:49	0° ∡ ¹	20040120
desc. node	14887 Nov 26 08:23	12°る20'35	22022150	evening max el	14888 Nov 09 00:54	24° ⋌ ³38'17	20°49'29
evening max el	14887 Nov 28 06:15	14°る20'04	22°22'59	desc. node	14888 Nov 12 05:34	27° ₹ '22'31	
retrograde	14887 Dec 11 01:15	20°る40'12			14888 Nov 17 16:56	0°る	
evening set	14887 Dec 14 16:24	20°る11'15		retrograde	14888 Nov 20 11:43	0°る19'44	
min. Earth dist.	14887 Dec 22 13:32	16° පි 38'36		evening set	14888 Nov 22 22:58	0° る 05'01	
inferior conj	14887 Dec 23 04:46	16° ට 17'13			14888 Nov 23 08:33	30°Ŗ ⋌ ¹	
minimum elong	14887 Dec 23 03:27	16° る 19'05	5°58'45	inferior conj	14888 Dec 01 19:57	26° √ 11'49 −	
morning rise	14887 Dec 31 15:36	12° る 29'57		minimum elong	14888 Dec 01 11:00	26° ∡ ¹24'37	5°18'33
direct	14888 Jan 03 22:33	12° る 05'37		min. Earth dist.	14888 Dec 02 19:13	25° ∡ ³38'32	0.54525 AU
morning max el	14888 Jan 15 21:09	17° る 50'00	21°27'42	morning rise	14888 Dec 09 23:10	22° х 17'41	
asc. node	14888 Jan 20 18:57	23° る 25'08		direct	14888 Dec 14 06:03	21° ∡ ³38′17	
	14888 Jan 25 06:17	0° ≈		morning max el	14888 Dec 27 10:29	28° ∡ 02'50	23°13'08
morning set	14888 Feb 05 02:22	20° ≈ 35'29			14888 Dec 29 08:56	0°ಕ	
	14888 Feb 09 13:23	0° ∀		asc. node	14889 Jan 06 16:12	10° る 59'01	
					14889 Jan 17 00:51	0° ≈	
superior conj	14888 Feb 12 07:56	5°) 49′08	1°16'13	morning set	14889 Jan 19 13:59	5° ≈ 21'03	
minimum elong	14888 Feb 12 10:23	6° 米 01′50	1°16'25				
max. Earth dist.	14888 Feb 16 20:57	15° 米 04'43	1.34960 AU	superior conj	14889 Jan 26 11:38	20° ≈ 16′11	1°29'37
evening rise	14888 Feb 20 23:31	23° 米 03′01		minimum elong	14889 Jan 26 13:21	20° ≈ 25′24	1°30'12
desc. node	14888 Feb 22 09:01	25°) 39′51		max. Earth dist.	14889 Jan 29 14:59	26° ≈ 56'49	1.33264 AU
	14888 Feb 24 17:59	0° Y			14889 Jan 31 02:11	0° ∀	

evening rise	14889 Feb 03 08:20	6°) 35′08			14890 Jan 08 14:56	0° ≈	
desc. node	14889 Feb 08 05:35	15° ¥ 55'18			14090 Jan 00 14.30	0 ~	
dese. Hode	14889 Feb 16 08:50	0°Υ		superior conj	14890 Jan 10 20:02	4°≈53'21	1°36'41
evening max el	14889 Mar 09 18:33	28° Υ 18'22	27°19'32	minimum elong	14890 Jan 10 20:44	4°≈57'13	1°37'31
evening man er	14889 Mar 11 14:38	0°8	2, 1, 5, 5, 2	max. Earth dist.	14890 Jan 12 16:09	8°≈55'18	1.32025 AU
retrograde	14889 Mar 23 08:48	5° 8 48'35		evening rise	14890 Jan 18 03:02	20°≈30'24	1.52025 110
evening set	14889 Mar 30 01:37	3° 8 18'31		evening rise	14890 Jan 22 21:56	0° ∀	
evening sec	14889 Apr 02 16:23	30°RY		desc. node	14890 Jan 26 02:14	5°) 54'31	
min. Earth dist.	14889 Apr 02 22:06	29° Y '44'59	0.64798 AU	dese. Hode	14890 Feb 10 10:07	0°Υ	
asc. node	14889 Apr 04 12:56	27° Y ′59'35		evening max el	14890 Feb 20 05:53	11° Υ 20'54	27°35'04
inferior conj	14889 Apr 05 09:22	27°\mathcal{Y}03'26	0°16'08	retrograde	14890 Mar 06 03:11	18° Y 48'24	27 33 01
minimum elong	14889 Apr 05 08:55	27° Υ '04'40	0°15'35	evening set	14890 Mar 12 23:36	16° Υ 28'04	
transit middle	14889 Apr 05 08:55	27°Υ04'40	0°15'35	min. Earth dist.	14890 Mar 16 17:49	13° Υ 21'54	0.62797 AU
transit begin	14889 Apr 05 08:14	27°Υ°06'32	0 13 33	inferior conj	14890 Mar 19 15:31	10° Υ 31'48	
transit end	14889 Apr 05 09:36	27°Υ02'48		minimum elong	14890 Mar 19 17:19	10°Υ27'23	0°53'19
morning rise	14889 Apr 11 18:08	21° Y '37'27		asc. node	14890 Mar 22 10:24	7° Υ 56'45	0 33 17
direct	14889 Apr 14 09:40	21° Υ '00'54		morning rise	14890 Mar 26 13:48	5° Υ 21'48	
morning max el	14889 Apr 20 17:29	24° Υ 16'51	17°54'02	direct	14890 Mar 28 21:27	4°Υ56'34	
morning max er	14889 Apr 25 11:23	0° 8	17 34 02	morning max el	14890 Apr 04 11:14	8° Υ 17'03	17°46'13
desc. node	14889 May 07 07:44	18° 8 47'34		morning max er	-	0° 8	1/ 4013
	•	20° 8 19'20			14890 Apr 18 21:53	2° 8 54'00	
morning set	14889 May 08 05:51			morning set	14890 Apr 20 13:52	9° 8 09'46	
	14889 May 14 02:35	$\Pi^{\circ}0$		desc. node	14890 Apr 24 04:25	9°009'46	
superior conj	14889 May 22 03:33	12° ∏ 58'37	1940/17	superior conj	14890 May 02 15:42	23° 8 30'51	1902/52
minimum elong	14889 May 21 18:42	12 Ⅲ 3837 12° Ⅲ 23'24	1°40'19	minimum elong	14890 May 02 09:32	23° 8 05'18	
max. Earth dist.	14889 May 26 08:16	12 П 23 24 19° П 36'40	1.45511 AU	minimum clong	14890 May 06 14:44	0°II	1 03 43
max. Earth dist.	14889 Jun 02 00:20	19 Д 3040	1.45511 AU	max. Earth dist.	•		1.44388 AU
					14890 May 09 01:41	3° Д 3/°14 17° Д 17'47	1.44388 AU
evening rise	14889 Jun 07 02:29	7°549'58	0.6	evening rise	14890 May 17 13:54	1/°Щ1/′4/ 0°9	
greatest brilliancy	14889 Jun 21 14:41	29° © 39'05	-0.6m		14890 May 25 23:17		20055104
	14889 Jun 21 20:27	0°Ω		evening max el	14890 Jun 16 09:13	28° © 43'15	20°55'04
asc. node	14889 Jul 01 11:04	12° Ω 47'35	10040107	1	14890 Jun 17 17:29	0° N	
evening max el	14889 Jul 03 09:20	14°Ω51'24	19°49'27	asc. node	14890 Jun 18 08:00	0° Ω 31'46	
retrograde	14889 Jul 10 20:17	19° Ω 04'06		retrograde	14890 Jun 24 19:18	3° Ω 35'17	
evening set	14889 Jul 14 16:16	17° Ω 39'04		evening set	14890 Jun 29 01:48	1° £ 53′06	
inferior conj	14889 Jul 19 23:51	11° Ω 40'55	3°05'45		14890 Jul 01 00:18	30° ₹ 55	
minimum elong	14889 Jul 20 00:45	11° Ω 37'53	3°04'52	inferior conj	14890 Jul 04 07:32	25°5643'34	3°10'13
min. Earth dist.	14889 Jul 21 01:22	10°Ω15'08	0.67827 AU	minimum elong	14890 Jul 04 07:26	25° © 43'53	3°09'17
morning rise	14889 Jul 25 08:47	5° Ω 16'16		min. Earth dist.	14890 Jul 04 19:25	25° © 02'20	0.68670 AU
direct	14889 Jul 31 02:53	2° Ω 45'09		morning rise	14890 Jul 09 12:48	19° 5 23'20	
desc. node	14889 Aug 03 06:35	3° Ω 23'19		direct	14890 Jul 14 19:03	17° © 05'28	
morning max el	14889 Aug 11 23:29	9° Ω 51'36	24°57'24	desc. node	14890 Jul 21 03:58	19° 5 40'17	
	14889 Aug 27 22:42	0° ™		morning max el	14890 Jul 25 10:14	23° © 25'59	23°28'45
	14889 Sep 15 18:44	0∘ ⊽			14890 Jul 31 05:37	0 $^{\circ}$ Ω	
morning set	14889 Sep 16 18:37	1° ≏ 45'13			14890 Aug 21 07:12	0°Щ	
max. Earth dist.	14889 Sep 20 07:53	8° ≏ 09'57	1.36953 AU	morning set	14890 Aug 29 05:52	12° m 54'17	
				max. Earth dist.	14890 Sep 02 05:56	19° m 44'49	1.39324 AU
superior conj	14889 Sep 27 00:59	20° ≏ 56'17			14890 Sep 07 23:46	0∘ ত	
minimum elong	14889 Sep 27 01:15	20° ≏ 57'36	0°04'12				
behind sun begin	14889 Sep 26 18:54	20° ≏ 26′28		superior conj	14890 Sep 09 22:33	3° ჲ 36′00	
behind sun end	14889 Sep 27 07:35	21° ≏ 28'47		minimum elong	14890 Sep 10 01:27	3° ჲ 49'29	0°38'53
asc. node	14889 Sep 27 12:44	21° ≏ 54'10		asc. node	14890 Sep 14 09:20	12° ≏ 01'18	
	14889 Oct 01 13:58	0° M		evening rise	14890 Sep 19 05:13	21° ≏ 22'10	
evening rise	14889 Oct 05 07:18	7° ™ 32'12			14890 Sep 23 17:32	0° M ₊	
	14889 Oct 17 17:48	0° ∡		evening max el	14890 Oct 05 08:01	17° M 34'53	18°43'25
evening max el	14889 Oct 22 09:43	5° х 41′38	19°35'24	retrograde	14890 Oct 13 15:28	21°M46'19	
desc. node	14889 Oct 30 02:53	10° ₹ 22'53		evening set	14890 Oct 15 13:17	21°M33'50	
retrograde	14889 Nov 01 05:14	10° ∡ ³35′56		desc. node	14890 Oct 17 00:16	21°M08'30	
evening set	14889 Nov 03 03:15	10° ≯ 25'32		inferior conj	14890 Oct 23 15:46	17°M10'30	-2°07'20
inferior conj	14889 Nov 11 20:15	6° ≯ 21'18		minimum elong	14890 Oct 23 10:33	17°M20'06	2°04'35
minimum elong	14889 Nov 11 10:51	6° ∡ ³36′13	3°49'42	min. Earth dist.	14890 Oct 26 18:01	14°M54'29	0.57012 AU
min. Earth dist.	14889 Nov 14 03:56	4° ₹ 53'03	0.55379 AU	morning rise	14890 Oct 31 04:33	12°M13'24	
morning rise	14889 Nov 19 16:33	2° ҂ 00′35		direct	14890 Nov 06 03:37	10°M46'39	
direct	14889 Nov 24 21:44	0° ∡ 759'47		morning max el	14890 Nov 20 08:53	18°M10'31	26°34'36
morning max el	14889 Dec 08 19:39	7° ∡ 757'59	25°01'47		14890 Nov 30 06:06	0° ∡ ¹	
asc. node	14889 Dec 24 13:23	29° ∡ ¹21′28		asc. node	14890 Dec 11 10:28	18° ≯ 20′18	
	14889 Dec 24 22:11	5°0			14890 Dec 17 08:01	0° ප	
morning set	14890 Jan 04 01:51	20° る 02'52		morning set	14890 Dec 19 12:14	4° る 36'19	

superior conj	14890 Dec 26 06:58	19°る34'23	1°37'38		14891 Dec 08 21:02	0°₹	
minimum elong max. Earth dist.	14890 Dec 26 06:36 14890 Dec 26 22:27	19°る32'19 21°る00'51	1°38'36 1.31294 AU	gunariar agni	14901 Dag 10 19:20	4° る 13'45	1°32'38
max. Earm dist.	14890 Dec 26 22.27 14890 Dec 31 00:14	21 3 00 31 0° ≈	1.31294 AU	superior conj minimum elong	14891 Dec 10 18:30 14891 Dec 10 17:10	4 81343 4° 8 06'17	
evening rise	14891 Jan 02 04:58	0		max. Earth dist.	14891 Dec 10 06:35	3°る07'06	1.31089 AU
desc. node	14891 Jan 12 22:56	25°≈30'55		evening rise	14891 Dec 17 11:51	19° る 05'30	1.51007 AC
dese. Hode	14891 Jan 15 14:13	0° ∀		evening rise	14891 Dec 22 18:32	0°≈	
evening max el	14891 Feb 02 13:00	23°) 43'18	27°17'51	desc. node	14891 Dec 30 19:44	14° ≈ 35'54	
* · · · · · · · · · · · · · · · · · · ·	14891 Feb 11 13:50	0° Υ			14892 Jan 10 15:22	0°) €	
retrograde	14891 Feb 16 12:57	1° Y '01'49		evening max el	14892 Jan 15 13:07	5° ¥ 15'17	26°25'40
Ü	14891 Feb 21 08:00	30°₽)		retrograde	14892 Jan 29 12:21	12°) €22'22	
evening set	14891 Feb 23 07:29	28° ¥ 59′01		evening set	14892 Feb 04 21:42	10°) 43'40	
min. Earth dist.	14891 Feb 27 03:28	26° ¥ 12'51	0.60608 AU	min. Earth dist.	14892 Feb 09 02:38	8°) €06'34	0.58416 AU
inferior conj	14891 Mar 02 07:32	23°) €29'39	-2°15'27	inferior conj	14892 Feb 12 05:45	5°){ 46'55	-3°42'50
minimum elong	14891 Mar 02 12:30	23° ¥ 18′58	2°13'16	minimum elong	14892 Feb 12 13:54	5°) 31′43	3°39'35
asc. node	14891 Mar 09 07:54	18°) (48′24		morning rise	14892 Feb 20 09:15	1°) 16′58	
morning rise	14891 Mar 09 20:48	18° ¥ 38′21		direct	14892 Feb 22 09:12	1°) €03'18	
direct	14891 Mar 11 22:42	18° ∺ 20'44		asc. node	14892 Feb 24 05:21	1° 米 15′24	
morning max el	14891 Mar 19 02:55	21° ¥ 56′27	17°56'42	morning max el	14892 Mar 01 12:47		18°27'01
	14891 Mar 25 07:45	0° Υ		morning set	14892 Mar 17 09:09	0° Υ 24'37	
morning set	14891 Apr 03 16:49	16° Y ′21′11			14892 Mar 17 04:00	0° Υ	
desc. node	14891 Apr 11 01:01	29° Y ′39'34				2 2	
	14891 Apr 11 05:36	9° 8		superior conj	14892 Mar 26 13:02	17° Υ 44'40	0°11'07
	14001 4 14 02 20	50 U 00104	0024157	minimum elong	14892 Mar 26 13:49	17° Y '48'14	0°10'47
superior conj	14891 Apr 14 03:39	5° 8 08'24		behind sun begin	14892 Mar 26 08:29	1/°° Y ′23′40′ 18° Y ′12'45	
minimum elong max. Earth dist.	14891 Apr 14 01:28 14891 Apr 21 15:20	4° 8 58'50	0°25'04 1.42689 AU	behind sun end desc. node	14892 Mar 26 19:09 14892 Mar 27 21:33	20° Υ 13'24	
	14891 Apr 27 13:05	27° 8 22'14	1.42089 AU	desc. node	14892 Mai 27 21.33 14892 Apr 02 09:47	0° 8	
evening rise	14891 Apr 29 05:10	0°Ⅱ		max. Earth dist.	14892 Apr 02 09:47 14892 Apr 03 00:48		1.40588 AU
	14891 May 19 16:53	0° ©		evening rise	14892 Apr 07 08:16	8° 8 21'02	1.40300710
evening max el	14891 May 30 03:48	12° © 35'20	22°10'58	evening rise	14892 Apr 21 05:36	0°II	
asc. node	14891 Jun 05 05:02	17°9516'50	1000	evening max el	14892 May 11 18:50	26° ∏ 28'40	23°31'51
retrograde	14891 Jun 08 17:04	18° © 11'09		<i>Q</i>	14892 May 15 18:57	0° ©	
evening set	14891 Jun 13 10:45	16° © 12'43		asc. node	14892 May 22 02:10	2° 5 46'03	
inferior conj	14891 Jun 18 17:07	9° © 53'28	3°03'40	retrograde	14892 May 22 12:16	2° © 46'50	
minimum elong	14891 Jun 18 16:07	9° 9 56'59	3°02'34	evening set	14892 May 27 17:34	0°534'01	
min. Earth dist.	14891 Jun 18 15:49	9° © 58'02	0.69036 AU		14892 May 28 08:28	30°RⅡ	
morning rise	14891 Jun 23 21:17	3° 5 39'49		min. Earth dist.	14892 Jun 01 12:29	24° Ⅱ 56′18	0.68921 AU
direct	14891 Jun 28 15:05	1° 5 39'41		inferior conj	14892 Jun 02 02:42	24° Ⅱ 07'25	2°46'43
morning max el	14891 Jul 07 23:15	7° © 07'48	22°00'39	minimum elong	14892 Jun 02 00:59	24° Ⅱ 13'21	2°45'25
desc. node	14891 Jul 08 01:14	7°912'47		morning rise	14892 Jun 07 08:21	18° Ⅱ 01'43	
	14891 Jul 25 15:39	0 $^{\circ}\Omega$		direct	14892 Jun 11 13:46	16° Ⅱ 21'35	
morning set	14891 Aug 09 16:52	22° Ω 59'50		morning max el	14892 Jun 19 17:41	21° Ⅱ 00′26	20°40'27
	14891 Aug 14 00:19	0° m)		desc. node	14892 Jun 23 22:23	25° Ⅱ 41'16	
max. Earth dist.	14891 Aug 15 07:41	2° Mp 09'53	1.41644 AU		14892 Jun 27 07:27	0°©	
	14001 4 22 01 56	1.50 m -2.612.0	1015114		14892 Jul 17 20:09	0°N	
superior conj minimum elong	14891 Aug 23 01:56 14891 Aug 23 07:51	15° m 26'38 15° m 52'38		morning set max. Earth dist.	14892 Jul 19 05:29 14892 Jul 27 16:09	2° Ω 08'46	1.43634 AU
minimum eiong	14891 Aug 31 03:22	0° ⊽	1 1743	max. Earth tist.	14072 Jul 2/ 10.09	13 062032	1.43034 AU
asc. node	14891 Sep 01 05:52	0 = 2° ჲ 02'21		superior conj	14892 Aug 03 07:02	26° Ω 19'21	-1°47'24
evening rise	14891 Sep 01 05.32 14891 Sep 02 16:36	2 = 02 21 4° Ω 42'56		minimum elong	14892 Aug 03 07.02 14892 Aug 03 14:37	$26^{\circ}\Omega 50'58$	
evening max el	14891 Sep 18 15:49		18°12'47	minimum crong	14892 Aug 05 11:38	0° my	1 17 10
* · · · · · · · · · · · · · · · · · · ·	14891 Sep 18 12:02	0° M ,		evening rise	14892 Aug 15 12:57	17° m 23'23	
retrograde	14891 Sep 25 21:03	3° M 50′17		asc. node	14892 Aug 18 02:26	21° m 53'30	
evening set	14891 Sep 28 00:36	3°M.31'19			14892 Aug 22 19:16	0∘ ⊽	
desc. node	14891 Oct 03 21:43	0°M01'00		evening max el	14892 Sep 01 04:53	13° ≏ 15'13	18°02'01
	14891 Oct 03 22:12	30° ₽ Ω		retrograde	14892 Sep 07 18:50	16° ≏ 39'24	
inferior conj	14891 Oct 05 09:03	28° ≏ 46′29	-0°27'58	evening set	14892 Sep 10 06:07	16° ≙ 10'15	
minimum elong	14891 Oct 05 08:04	28° ≏ 48'37	0°27'11	inferior conj	14892 Sep 16 21:50	11° ≏ 05'36	0°52'33
min. Earth dist.	14891 Oct 08 15:38		0.59125 AU	minimum elong	14892 Sep 16 23:21	11° ≏ 01'52	0°52'05
morning rise	14891 Oct 12 12:08	23° ≏ 14'18		desc. node	14892 Sep 19 19:12	8° ≏ 14'31	
direct	14891 Oct 18 22:54	21° ≏ 21'01		min. Earth dist.	14892 Sep 19 22:44	8° 亞 06′10	0.61410 AU
morning max el	14891 Nov 02 05:57	29° ≙ 04'07	27°36'08	morning rise	14892 Sep 23 13:50	5° ≏ 06'22	
	14891 Nov 03 04:19	0°M		direct	14892 Sep 30 05:39	2° ₾ 50'08	A #0.50:5=
	14891 Nov 24 03:58	0° ₹ ¹		morning max el	14892 Oct 14 10:25	10° ≏ 46'27	27°58'57
asc. node	14891 Nov 28 07:26	7° 🗷 45'35		1	14892 Oct 29 12:05	0°M 27°M 2012€	
morning set	14891 Dec 03 19:21	18° ∡ 56'51		asc. node	14892 Nov 14 04:15	27°M29'36	

	14892 Nov 15 10:10	0° ∡ ¹		morning set	14893 Oct 31 15:24	16°MJ38'24	
morning set	14892 Nov 16 21:10	2° × 759'19		asc. node	14893 Nov 01 01:00	17°M26'31	
max. Earth dist.	14892 Nov 22 12:36	15° × 704'11	1.31423 AU	max. Earth dist.	14893 Nov 05 12:36		1.32308 AU
max. Earm dist.	14692 NOV 22 12.30	13 🛪 04 11	1.51425 AU	max. Earth tist.	14893 Nov 07 01:27	0° x ¹	1.32308 AU
superior conj	14892 Nov 24 04:45	18° ∡ ¹45'48	1°21'43		140/3 1107 07 01.27	· ^	
minimum elong	14892 Nov 24 02:42	18° × 34'30	1°22'27	superior conj	14893 Nov 08 11:48	3° ∡ ¹05'36	1°04'55
minimum ciong	14892 Nov 29 06:24	0° そ 。3430	1 222/	minimum elong	14893 Nov 08 09:28	2° × ⁷ 53'00	1°05'24
evening rise	14892 Nov 30 21:41	3° る 34'07		evening rise	14893 Nov 15 08:38	18°× 03'52	1 03 24
evening rise	14892 Nov 30 21:41 14892 Dec 14 18:52	0°≈		evening rise	14893 Nov 21 03:17	18 × 05 52 0° る	
desc. node	14892 Dec 14 16:39	0 ∞ 2°≈57'03		desc. node	14893 Nov 21 03:17 14893 Dec 03 13:40	00 20°る18'26	
			25°02'43		14893 Dec 03 13:40 14893 Dec 08 14:21	20 318 20 25° る 57'26	22922101
evening max el	14892 Dec 27 04:33	15°≈54'10	25 02 43	evening max el	14893 Dec 08 14:21 14893 Dec 13 16:32	25° ⊘ 57′26 0° ≈	23-22-01
retrograde	14893 Jan 09 23:43	22°≈49'04					
evening set	14893 Jan 15 14:18	21° ≈ 38'37	0.56460.444	retrograde	14893 Dec 21 22:18	2°≈34'21	
min. Earth dist.	14893 Jan 20 16:35	18°≈54'53	0.56468 AU	evening set	14893 Dec 26 07:59	1°≈52'15	
inferior conj	14893 Jan 23 07:11	17°≈13'45		: E 4 E	14893 Dec 30 16:55	30°Rる	0.55050 444
minimum elong	14893 Jan 23 16:06		5°00'24	min. Earth dist.	14894 Jan 02 00:44	28°る42'36	
morning rise	14893 Jan 31 20:21	13°≈05'36		inferior conj	14894 Jan 03 12:36	27°る50'30	
direct	14893 Feb 03 00:41	12° ≈ 52'07		minimum elong	14894 Jan 03 16:32	27° る 44'46	5°52'44
asc. node	14893 Feb 10 02:46	15°≈25'38		morning rise	14894 Jan 12 02:39	23°る58'45	
morning max el	14893 Feb 12 12:41	17°≈28'55	19°19'08	direct	14894 Jan 14 20:55	23°る40'25	
	14893 Feb 21 14:30	0° ∀		morning max el	14894 Jan 25 22:56	29° る 00'04	20°34'22
morning set	14893 Mar 01 10:30	14° ¥ 50′07			14894 Jan 26 22:50	0° ≈	
	14893 Mar 09 01:44	0° Y		asc. node	14894 Jan 28 00:07	1° ≈ 08'48	
				morning set	14894 Feb 13 17:42	29° ≈ 28'36	
superior conj	14893 Mar 09 15:17	1° Υ 05'51	0°41'35		14894 Feb 13 23:48	0° ∀	
minimum elong	14893 Mar 09 17:35	1° Ƴ 16'58	0°41'18				
desc. node	14893 Mar 14 18:04	10° Ƴ 46'53		superior conj	14894 Feb 21 06:07	15° ∺ 00'06	1°05'29
max. Earth dist.	14893 Mar 16 07:11	13° Ƴ 36'33	1.38309 AU	minimum elong	14894 Feb 21 08:45	15° ¥ 13′27	1°05'29
evening rise	14893 Mar 20 00:24	20° Y 12'57		max. Earth dist.	14894 Feb 26 14:40	25°) (36′41	1.36109 AU
	14893 Mar 25 19:31	0° 8			14894 Feb 28 22:10	$0^{\circ}\Upsilon$	
	14893 Apr 15 07:33	Π $^{\circ}0$		desc. node	14894 Mar 01 14:36	1° Y 16'34	
evening max el	14893 Apr 24 08:18	10° Ⅲ 22′18	24°51'29	evening rise	14894 Mar 02 11:05	2° Y 51'03	
retrograde	14893 May 06 03:50	17° Ⅱ 15'40			14894 Mar 18 19:55	9° 8	
asc. node	14893 May 08 23:23	16° Ⅱ 41'48		evening max el	14894 Apr 06 21:47	24° 8 13'28	26°02'44
evening set	14893 May 11 20:38	14° Ⅲ 51'40			14894 Apr 14 07:41	Π°	
min. Earth dist.	14893 May 16 07:19	9° Ⅱ 50'36	0.68325 AU	retrograde	14894 Apr 19 14:45	1° Ⅱ 30'34	
inferior conj	14893 May 17 10:22	8° Ⅲ 21′04	2°19'19		14894 Apr 24 09:43	30° ₹ 8	
minimum elong	14893 May 17 08:15	8° Ⅱ 28'07	2°17'53	evening set	14894 Apr 25 18:16	28° 8 59'50	
morning rise	14893 May 22 20:07	2° Ⅱ 24'25		asc. node	14894 Apr 25 20:42	28° 8 54'44	
direct	14893 May 26 13:40	1° Ⅱ 04'35		min. Earth dist.	14894 Apr 29 22:21	24° 8 34'16	0.67273 AU
morning max el	14893 Jun 02 19:24	5° Ⅱ 04'12	19°33'09	inferior conj	14894 May 01 14:08	22° 8 30'05	1°40'56
desc. node	14893 Jun 10 19:26	14° Ⅱ 50'34		minimum elong	14894 May 01 12:05	22° 8 36'30	1°39'33
greatest brilliancy	14893 Jun 15 10:55	21° Ⅲ 28'58	-0.6m	morning rise	14894 May 07 06:39	16° 8 43'43	
· ·	14893 Jun 21 04:00	0°ಅ		direct	14894 May 10 13:13	15° 8 42'44	
morning set	14893 Jun 28 08:15	10° © 56'21		morning max el	14894 May 17 04:14	19° 8 15'43	18°41'23
max. Earth dist.	14893 Jul 10 06:35	29°528'52	1.45073 AU	Č	14894 May 25 15:45	0°II	
	14893 Jul 10 14:28	$0^{\circ}\Omega$		desc. node	14894 May 28 16:22	4° Ⅱ 29'38	
				morning set	14894 Jun 07 21:47	20° Ⅱ 18'54	
superior conj	14893 Jul 14 12:42	6° Ω 13'59	-2°08'58	Č	14894 Jun 14 02:42	0°©	
minimum elong	14893 Jul 14 17:41	6° Ω 33'56	2°09'38	max. Earth dist.	14894 Jun 23 00:55	13° © 55'02	1.45832 AU
evening rise	14893 Jul 28 13:07	29° Ω 10′58					
<i>5</i>	14893 Jul 29 00:51	0° m)		superior conj	14894 Jun 24 00:58	15° © 28'55	-2°13'00
asc. node	14893 Aug 04 23:03	11° m ₂ 30'21		minimum elong	14894 Jun 23 22:38	15° © 19'50	
evening max el	14893 Aug 15 19:30	26° m/43'07	18°09'53	minimum ciong	14894 Jul 03 06:48	0° Ω	2 1337
evening max er	14893 Aug 21 06:57	ე∘ <u>ი</u>	10 07 33	evening rise	14894 Jul 09 12:52	9° Ω 56'13	
retrograde	14893 Aug 22 04:09	° 교 04'11		greatest brilliancy	14894 Jul 16 06:30	20°Ω40'25	-0.9m
retrograde	14893 Aug 23 01:19	30°R, M)		greatest brilliancy	14894 Jul 22 07:07	0°m)	-0.7111
evening set	14893 Aug 24 23:55	29° Mp 21'47		asc. node	14894 Jul 22 19:45	0° Mp 46'45	
inferior conj	14893 Aug 31 02:10	24° m/00'00	1°52'10	evening max el	14894 Jul 30 08:34	10° m/24'52	18°35'30
minimum elong	14893 Aug 31 02:10 14893 Aug 31 04:32	23° m 53'23	1°51'14	retrograde	14894 Aug 05 20:56	10 m/24 32 13° m/55'55	10 33 30
min. Earth dist.	14893 Sep 02 15:50	23 lly 33 23 21° my 08'59	0.63617 AU	evening set	14894 Aug 09 01:42	13 my 57'55	
morning rise	14893 Sep 02 15:50 14893 Sep 06 07:16	17° m) 43'52	0.0301 / AU	inferior conj	14894 Aug 19 01:42 14894 Aug 14 18:04	7° Mg 20'58	2022155
desc. node	14893 Sep 06 07:16 14893 Sep 06 16:42	17° m/26'14		minimum elong	14894 Aug 14 18:04 14894 Aug 14 20:15	7° mg 14'17	
direct	14893 Sep 06 16:42 14893 Sep 12 22:20	17° my 20°14 15° my 11'50		min. Earth dist.	14894 Aug 14 20:13 14894 Aug 16 18:03	4° m) 54'50	0.65569 AU
morning max el	14893 Sep 12 22:20 14893 Sep 26 19:41	-	27°43'39	min. Earth dist.	14894 Aug 10 18:03	0° My 56'55	0.03307 AU
morning max ei	14893 Sep 26 19:41 14893 Oct 02 21:05	0° ي 0° ي	41 4 3 37	morning rise	-	บ"เมู่วิธีวิวิ 30°หู Ω	
	14893 Oct 02 21:05 14893 Oct 22 19:16	0° ™		desc. node	14894 Aug 21 19:48 14894 Aug 24 14:13	30°R31' 28° Ω 39'13	
	14073 OCI 22 19.10	U IIIG		acsc. Hout	14074 Aug 24 14.13	40 66 39 13	

direct	14894 Aug 26 23:16	28° Ω 18'12		morning max el	14895 Aug 22 17:51	19° Ω 27'09	25°45'03
direct	14894 Sep 01 15:33	0°m)		morning max cr	14895 Aug 31 17:41	0° m	23 43 03
morning max el	14894 Sep 09 06:47	6° Mp 09'26	26°56'07		14895 Sep 20 17:17	0∘ ⊽ ∘ .w	
moning man er	14894 Sep 27 15:15	0∘ ⊽	20 00 07	morning set	14895 Sep 27 16:57	ა — 12° ჲ 15'44	
morning set	14894 Oct 14 23:10	29° Ω 46'24		max. Earth dist.	14895 Oct 01 08:27	19° ഫ 03'35	1.35681 AU
8	14894 Oct 15 02:00	0°M		asc. node	14895 Oct 05 18:19	27° ₽ 39'18	
asc. node	14894 Oct 18 21:40	7° M 30'57			14895 Oct 06 22:26	0° M	
max. Earth dist.	14894 Oct 19 03:17	7° M 59'14	1.33745 AU				
				superior conj	14895 Oct 07 06:49	0°M42'16	0°14'00
superior conj	14894 Oct 23 13:22	17°M06'26	0°42'14	minimum elong	14895 Oct 07 05:59	0°M38'05	0°14'15
minimum elong	14894 Oct 23 11:23	16° ™ 56'00	0°42'32	behind sun begin	14895 Oct 07 03:05	0°M23'25	
_	14894 Oct 29 14:42	0° ∡ ¹		behind sun end	14895 Oct 07 08:54	0°M52'46	
evening rise	14894 Oct 30 18:50	2° ∡ °29′17		evening rise	14895 Oct 15 02:17	16°M46'03	
	14894 Nov 15 00:28	ರ°ರ			14895 Oct 21 18:53	0° ∡ ¹	
evening max el	14894 Nov 20 03:08	5° る 59'24	21°41'23	evening max el	14895 Nov 02 03:36	16° ∡ ³34'44	20°15'17
desc. node	14894 Nov 20 10:49	6° ප 18'02		desc. node	14895 Nov 07 08:04	20° х 30′42	
retrograde	14894 Dec 02 10:13	12° る 04'32		retrograde	14895 Nov 12 21:31	21° ₹ 755'42	
evening set	14894 Dec 05 11:53	11° る 43'16		evening set	14895 Nov 15 01:26	21° х 43'43	
inferior conj	14894 Dec 14 05:09	7° る 51'31	-5°50'53	inferior conj	14895 Nov 23 22:24	17° ∡ 747'23	-4°48'27
minimum elong	14894 Dec 13 23:56	7° る 58'48	5°49'22	minimum elong	14895 Nov 23 12:22	18° ∡ °02'14	4°44'52
min. Earth dist.	14894 Dec 14 06:33	7° る 49'33	0.54451 AU	min. Earth dist.	14895 Nov 25 12:59	16° ∡ 750′19	0.54784 AU
morning rise	14894 Dec 22 12:41	4° る 03'24		morning rise	14895 Dec 01 22:36	13° ∡ ¹44'12	
direct	14894 Dec 26 05:41	3° る 33'21		direct	14895 Dec 06 15:46	12° ∡ 56′09	
morning max el	14895 Jan 07 18:34	9° ට 36'17	22°11'01	morning max el	14895 Dec 20 04:40	19° ∡ ³35'37	24°00'06
asc. node	14895 Jan 14 21:25	18° පි 06'51			14895 Dec 28 20:49	0°ಕ	
	14895 Jan 22 02:03	0° ≈		asc. node	14896 Jan 01 18:39	6° る 02'37	
morning set	14895 Jan 29 04:18	14° ≈ 12'56		morning set	14896 Jan 13 16:14	28° る 57'00	
					14896 Jan 14 03:57	0° ≈	
superior conj	14895 Feb 05 05:58	29° ≈ 17'14	1°22'41				
minimum elong	14895 Feb 05 08:09	29° ≈ 28'47	1°23'03	superior conj	14896 Jan 20 11:54	13° ≈ 48'45	1°33'22
	14895 Feb 05 14:04	0° ∀		minimum elong	14896 Jan 20 13:12	13° ≈ 55'51	1°34'04
max. Earth dist.	14895 Feb 09 04:09	7°) €26'40	1.34188 AU	max. Earth dist.	14896 Jan 23 01:32	19° ≈ 21'29	1.32678 AU
evening rise	14895 Feb 13 12:49	16°) €06'03		evening rise	14896 Jan 28 02:11	29° ≈ 48'37	
desc. node	14895 Feb 16 11:10	21°) (38'31			14896 Jan 28 04:27	0° \	
	14895 Feb 21 03:08	0° Ƴ		desc. node	14896 Feb 03 07:46	11°) 47′39	
	14895 Mar 13 07:39	0°8	26050102		14896 Feb 14 04:45	0°Υ 21°Υ16'41	27020150
evening max el	14895 Mar 20 11:39	7° 8 55'34	26°58'02	evening max el	14896 Mar 02 00:38		27°29'58
retrograde	14895 Apr 02 19:58	15° 8 23'45		retrograde	14896 Mar 15 18:20	28° Y 45'48 26° Y 19'14	
evening set	14895 Apr 09 08:34	12° 8 51'54		evening set min. Earth dist.	14896 Mar 22 13:13		0.62000 ATT
asc. node min. Earth dist.	14895 Apr 12 18:06 14895 Apr 13 07:28	9° 8 37'09 8° 8 59'59	0.65805 AU	inferior conj	14896 Mar 26 08:32 14896 Mar 29 00:27	22° Υ 57'55 20° Υ 11'21	0.63980 AU
inferior conj	14895 Apr 15 11:45	6° 8 29'19	0.03803 AU 0°50'44	minimum elong	14896 Mar 29 00:50	20°Υ10'22	0°12'08
minimum elong	14895 Apr 15 11:43	6° 8 33'02	0°49'45	transit middle	14896 Mar 29 00:50	20 γ 10 22 20°γ 10'22	0°12'08
morning rise	14895 Apr 21 13:47	0° 8 55'00	0 4943	transit begin	14896 Mar 28 22:48	20°Υ15'41	0 12 08
direct	14895 Apr 24 10:29	0° 8 10'22		transit end	14896 Mar 29 02:52	20° Υ '05'02	
morning max el	14895 Apr 30 18:36	3° 8 29'10	18°06'21	asc. node	14896 Mar 29 15:33	19° Υ 32'07	
desc. node	14895 May 15 13:12	24° 8 30'23	10 0021	morning rise	14896 Apr 04 14:41	14° Υ 51'33	
dese. Hode	14895 May 18 22:46	0°П		direct	14896 Apr 07 02:45	14° Υ 20'07	
morning set	14895 May 19 12:53	0° I 57'06		morning max el	14896 Apr 13 11:58	17° Ƴ 36'31	17°48'30
8	,				14896 Apr 22 14:05	0°8	
superior conj	14895 Jun 03 10:38	24° ∏ 43'43	-1°57'00	morning set	14896 Apr 30 07:19	12° 8 53'33	
minimum elong	14895 Jun 03 02:23	24° I I11'20		desc. node	14896 May 01 09:55	14° 8 46'06	
max. Earth dist.	14895 Jun 05 21:10	28° Ⅲ 32'54	1.45845 AU		14896 May 10 13:15	0°II	
	14895 Jun 06 19:29	0° ©			·		
evening rise	14895 Jun 19 13:21	19° 5 46'03		superior conj	14896 May 13 10:06	4° Ⅱ 39'47	-1°25'36
Č	14895 Jun 26 04:48	$0^{\circ}\Omega$		minimum elong	14896 May 13 01:59	4° Ⅱ 07'01	
greatest brilliancy	14895 Jul 01 19:22	8° Ω 30′03	-0.7m	max. Earth dist.	14896 May 18 16:53	13° Ⅲ 06'15	1.45121 AU
asc. node	14895 Jul 09 16:33	19° Ω 35'43		evening rise	14896 May 29 00:53	29° Ⅱ 09'44	
evening max el	14895 Jul 13 17:39	24° Ω 14'29	19°17'59	-	14896 May 29 14:02	0ಂಣ	
retrograde	14895 Jul 20 18:01	28° Ω 08′12			14896 Jun 19 01:53	$0^{\circ}\Omega$	
evening set	14895 Jul 24 08:21	26° Ω 53'07		asc. node	14896 Jun 25 13:26	7° Ω 46'46	
inferior conj	14895 Jul 29 18:15	21° Ω 02′28	2°57'40	evening max el	14896 Jun 25 21:02	8° Ω 05'58	20°15'49
minimum elong	14895 Jul 29 19:42	20° Ω 57'45	2°56'46	retrograde	14896 Jul 03 16:55	12° Ω 33'59	
min. Earth dist.	14895 Jul 31 03:54	19° Ω 12'39	0.67137 AU	evening set	14896 Jul 07 17:24	11° Q 01'23	
morning rise	14895 Aug 04 06:27	14° Ω 36′56		inferior conj	14896 Jul 12 23:52	4° Ω 58'13	3°09'01
direct	14895 Aug 10 06:58	12° Ω 00'46		minimum elong	14896 Jul 13 00:21	4° Ω 56'35	3°08'08
desc. node	14895 Aug 11 11:41	12° Ω 06′15		min. Earth dist.	14896 Jul 13 19:28	3° Ω 51'19	0.68252 AU

page 160

	14896 Jul 16 21:05	30°Rூ		inferior conj	14897 Jun 27 08:36	19° © 04'02	3°08'44
morning rise	14896 Jul 18 06:59	28°535'23		minimum elong	14897 Jun 27 08:06	19° © 05'46	3°07'43
direct	14896 Jul 23 20:11	26° © 09'24		min. Earth dist.	14897 Jun 27 14:44	18° © 42'38	0.68889 AU
desc. node	14896 Jul 28 09:05	27° © 28'14		morning rise	14897 Jul 02 13:06	12° © 46'26	
	14896 Aug 01 00:13	0 \circ Ω		direct	14897 Jul 07 13:58	10° © 36'01	
morning max el	14896 Aug 04 04:31	2° Ω 56'47	24°20'07	desc. node	14897 Jul 15 06:25	14° © 19'43	
	14896 Aug 24 20:34	0° ™		morning max el	14897 Jul 17 16:02	16° 9 34'26	22°50'40
morning set	14896 Sep 08 16:35	23° Mp 56'44			14897 Jul 28 17:43	0 \circ Ω	
	14896 Sep 12 03:06	0∘ ⊽			14897 Aug 17 21:06	0° m	
max. Earth dist.	14896 Sep 12 07:45	0° ჲ 20'50	1.37957 AU	morning set	14897 Aug 20 17:46	4° m 39'03	
				max. Earth dist.	14897 Aug 25 06:57	12° m 15'54	1.40334 AU
superior conj	14896 Sep 19 12:46	13° ≏ 44'55					
minimum elong	14896 Sep 19 14:03	13° ≏ 51'06	0°18'35	superior conj	14897 Sep 02 03:05	26° Mp 04'14	
asc. node	14896 Sep 21 14:56	17° ≏ 47'53		minimum elong	14897 Sep 02 07:17	26° m 23'20	0°54'11
	14896 Sep 27 18:51	0°M₊			14897 Sep 04 06:32	0∘ ⊽	
evening rise	14896 Sep 28 04:32	0°M48'06		asc. node	14897 Sep 08 11:30	7° ≏ 52'35	
evening max el	14896 Oct 14 18:27	27°M59'19	19°10'30	evening rise	14897 Sep 11 22:27	14° ≏ 26'43	
	14896 Oct 17 01:15	0° ⊼			14897 Sep 20 10:57	0° M	
retrograde	14896 Oct 23 21:34	2° ∡ ³34'27		evening max el	14897 Sep 27 21:14	10° M ₊10'40	18°27'50
desc. node	14896 Oct 24 05:23	2° ҂ ³34'07		retrograde	14897 Oct 05 16:27	14° M 07'52	
evening set	14896 Oct 25 18:29	2° ҂ 23'42		evening set	14897 Oct 07 16:06	13°M53'14	
	14896 Oct 31 11:05	30°₽ M		desc. node	14897 Oct 11 02:48	12°M25'45	
inferior conj	14896 Nov 03 06:06	28°M11'31	-3°09'01	inferior conj	14897 Oct 15 10:58	9° ™ 20'38	-1°23'18
minimum elong	14896 Nov 02 22:13	28°M24'47	3°05'18	minimum elong	14897 Oct 15 07:42	9° M 27′04	1°21'25
min. Earth dist.	14896 Nov 05 23:20	26°M21'52	0.55995 AU	min. Earth dist.	14897 Oct 18 16:30	6° M 48′37	0.57863 AU
morning rise	14896 Nov 10 23:27	23°M36'04		morning rise	14897 Oct 22 19:48	4° M 07'33	
direct	14896 Nov 16 12:50	22°M24'54		direct	14897 Oct 29 00:23	2° M 29'27	
morning max el	14896 Nov 30 14:46	29° M 34'07	25°44'28	morning max el	14897 Nov 12 07:25	10°ML02'51	27°05'23
	14896 Dec 01 01:28	0° x ³			14897 Nov 27 14:58	0° ∡ ¹	
asc. node	14896 Dec 18 15:46	24° ₹ 41'52		asc. node	14897 Dec 05 12:47	13° ∡ ′52'43	
	14896 Dec 21 12:08	0° ろ		morning set	14897 Dec 12 12:54	28° ₰ 04'25	
morning set	14896 Dec 28 03:42	13° る 36'03			14897 Dec 13 10:24	ರ∘ರ	
superior conj	14897 Jan 03 21:36	28° る 28'09	1°37'49	superior conj	14897 Dec 19 08:59	13° る 08'49	1°36'14
minimum elong	14897 Jan 03 21:51	28° る 29'31	1°38'44	minimum elong	14897 Dec 19 08:11	13° る 04'21	1°37'12
	14897 Jan 04 14:11	0° ≈		max. Earth dist.	14897 Dec 19 12:56	13° る 30'55	1.31136 AU
max. Earth dist.	14897 Jan 05 05:29	1° ≈ 24'36	1.31649 AU	evening rise	14897 Dec 26 04:30	28° る 08'24	
evening rise	14897 Jan 11 00:15	13° ≈ 51'41			14897 Dec 27 01:34	0° ≈	
	14897 Jan 19 06:38	0°) €		desc. node	14898 Jan 07 01:11	21° ≈ 02′14	
desc. node	14897 Jan 20 04:27	1°) €38'15			14898 Jan 12 15:07	0°)	
	14897 Feb 08 12:57	0 ° Υ		evening max el	14898 Jan 25 14:36	16°) €03'45	26°59'46
evening max el	14897 Feb 12 10:28	4° Y 03′26	27°31'58	retrograde	14898 Feb 08 14:41	23°) 18′22	
retrograde	14897 Feb 26 08:56	11° Y 27'12		evening set	14898 Feb 15 06:22	21°) 24'44	
evening set	14897 Mar 05 05:35	9° Ƴ 13'14		min. Earth dist.	14898 Feb 19 04:48	18°) 4 4'15	0.59661 AU
min. Earth dist.	14897 Mar 08 23:52	6° Ƴ 16'58	0.61885 AU	inferior conj	14898 Feb 22 09:48	16° ₩ 08'41	-2°52'20
inferior conj	14897 Mar 12 01:02	3° Y 27'49	-1°27'16	minimum elong	14898 Feb 22 16:13	15° ¥ 55'42	2°49'36
minimum elong	14897 Mar 12 04:05	3° Y 20'44	1°25'59	morning rise	14898 Mar 02 05:28	11° ∺ 26′38	
	14897 Mar 16 04:17	30°Ŗ ℋ		asc. node	14898 Mar 03 10:24	11°) 1 3′45	
asc. node	14897 Mar 16 12:58	29°) 45′27		direct	14898 Mar 04 05:53	11°) 1 1′13	
morning rise	14897 Mar 19 05:36	28°) €25'33		morning max el	14898 Mar 11 18:59	14° ¥ 56′27	18°07'09
direct	14897 Mar 21 10:37	28°) €03'55			14898 Mar 22 03:37	0° Ƴ	
	14897 Mar 26 12:07	0° Y		morning set	14898 Mar 27 09:19	9° Ƴ 36′29	
morning max el	14897 Mar 28 05:16	1° Y 29′07	17°48'25	desc. node	14898 Apr 05 03:10	25° Y 43'49	
morning set	14897 Apr 13 00:07	25° Y 52'46					
	14897 Apr 15 07:48	9° 8		superior conj	14898 Apr 06 06:02	27° Y '44'09	-0°09'07
desc. node	14897 Apr 18 06:35	5° 8 12'05		minimum elong	14898 Apr 06 05:16	27° Ƴ 40'45	0°09'21
				behind sun begin	14898 Apr 05 22:58	27° Y 12'39	
superior conj	14897 Apr 24 08:28	15° 8 40'15		behind sun end	14898 Apr 06 11:34	28° Y 08'48	
minimum elong	14897 Apr 24 04:01	15° 8 21'26	0°47'15		14898 Apr 07 12:39	9° 8	
max. Earth dist.	14897 May 01 09:14	27° 8 17'53	1.43733 AU	max. Earth dist.	14898 Apr 13 20:38	10° 8 53'35	1.41826 AU
	14897 May 03 01:31	Π °0		evening rise	14898 Apr 18 22:52	19° 8 15'30	
evening rise	14897 May 08 15:46	8° ∏ 49′23			14898 Apr 25 19:03	Π $^{\circ}0$	
	14897 May 22 18:36	0 \circ \odot			14898 May 17 05:37	0 \circ \odot	
evening max el	14897 Jun 08 18:24	21° © 57'09	21°26'15	evening max el	14898 May 22 11:04	5° 5 49'14	22°45'05
asc. node	14897 Jun 12 10:24	25° © 07'27		asc. node	14898 May 30 07:26	11° © 22'32	
retrograde	14897 Jun 17 15:39	27° © 07'41		retrograde	14898 Jun 01 12:38	11° 5 644'19	
evening set	14897 Jun 22 02:53	25°518'11		evening set	14898 Jun 06 11:09	9° 5 39'29	

inferior conj	14898 Jun 11 18:26	3° © 16'30	2057147	evening max el	14899 May 05 01:14	19° Ⅱ 42'55	24°06'26
minimum elong	14898 Jun 11 17:05	3°921'10	2°56'35	retrograde	14899 May 16 06:26	19 Ⅱ 42 33 26° Ⅱ 17'29	24 00 20
min. Earth dist.	14898 Jun 11 11:35	3°540'18	0.69041 AU	asc. node	14899 May 17 04:36	26° I 17'29	
min. Earth dist.			0.09041 AU		•		
	14898 Jun 14 05:00	30°RII		evening set	14899 May 21 16:33	23° II 59'44	0.60710.411
morning rise	14898 Jun 16 22:54	27° I 105'54		min. Earth dist.	14899 May 26 07:50	18° Ⅱ 37'26	0.68719 AU
direct	14898 Jun 21 11:17	25° Ⅱ 14'13		inferior conj	14899 May 27 03:26	17° II 30'56	2°36'26
	14898 Jun 29 22:32	0°©		minimum elong	14899 May 27 01:30	17° Ⅱ 37'32	2°35'03
morning max el	14898 Jun 30 07:06	0°921'07	21°25'11	morning rise	14899 Jun 01 10:28	11° II 28'41	
desc. node	14898 Jul 02 03:38	2°5518'18		direct	14899 Jun 05 10:46	9° Ⅱ 57'07	
	14898 Jul 22 11:03	0 \circ Ω		morning max el	14899 Jun 13 04:24	14° Ⅱ 18′04	20°10'01
morning set	14898 Jul 31 18:37	14° Ω 19'08		desc. node	14899 Jun 19 00:44	21° Ⅱ 05'33	
max. Earth dist.	14898 Aug 07 11:02	25° Ω 03'05	1.42541 AU		14899 Jun 25 12:20	0ං ව	
	14898 Aug 10 10:52	0° m		morning set	14899 Jul 11 00:46	23°©12'31	
					14899 Jul 15 09:57	$0^{\circ}\Omega$	
superior conj	14898 Aug 14 21:27	7° m ∤31'17	-1°29'43	max. Earth dist.	14899 Jul 20 21:56	8° Ω 40'12	1.44326 AU
minimum elong	14898 Aug 15 04:23		1°29'19				
evening rise	14898 Aug 26 04:06	27° m, 32'09		superior conj	14899 Jul 26 16:29	17° Ω 59'01	-1°58'17
asc. node	14898 Aug 26 08:04	27° m 50'06		minimum elong	14899 Jul 26 23:39	18° Ω 28'17	1°58'30
	14898 Aug 27 12:45	0∘ ⊽			14899 Aug 02 21:58	0° m)	
evening max el	14898 Sep 11 07:49	23° ≙ 00'09	18°05'54	evening rise	14899 Aug 08 16:29	9° m ,51′20	
retrograde	14898 Sep 18 05:20	26° ≏ 32'08		asc. node	14899 Aug 13 04:39	17° № 35'40	
evening set	14898 Sep 20 11:58	26° ≏ 09'21			14899 Aug 20 21:07	0∘ ত	
inferior conj	14898 Sep 27 13:02	21° ≏ 16′10	0°08'45	evening max el	14899 Aug 25 22:02	6° £ 16'41	18°03'10
minimum elong	14898 Sep 27 13:20	21° ≏ 15'30	0°08'53	retrograde	14899 Sep 01 08:25	9° £ 37'29	
transit middle	14898 Sep 27 13:20	21° ≏ 15'30	0°08'53	evening set	14899 Sep 03 23:20	9° ഫ 02'57	
transit begin	14898 Sep 27 10:32	21° ≙ 21'53		inferior conj	14899 Sep 10 08:55	3° ≙ 50'54	1°20'18
transit end	14898 Sep 27 16:07	21° ≏ 09'06		minimum elong	14899 Sep 10 10:57	3° ≏ 45'33	1°19'34
desc. node	14898 Sep 28 00:15	20° ♀ 50'23		min. Earth dist.	14899 Sep 13 05:35	0° £ 52'46	0.62381 AU
min. Earth dist.	14898 Sep 30 18:18	18° ≏ 20′26	0.60091 AU		14899 Sep 14 03:15	30°R, Mp	
morning rise	14898 Oct 04 11:27	15° ≏ 31'07		desc. node	14899 Sep 14 21:45	29° m 17'26	
direct	14898 Oct 11 01:13	13° ≏ 27'01		morning rise	14899 Sep 16 20:12	27° m/43'33	
morning max el	14898 Oct 25 07:54	21° ≏ 17'28	27°50'35	direct	14899 Sep 23 12:37	25° m 19'22	
C	14898 Nov 01 22:20	0°M			14899 Oct 03 23:08	0∘ ⊽	
	14898 Nov 20 15:04	0° ∡ ¹		morning max el	14899 Oct 07 14:30	3° ≏ 18'17	27°56'42
asc. node	14898 Nov 22 09:42	3° ₹ 26'41		S	14899 Oct 27 11:22	0° M	
morning set	14898 Nov 26 17:59	12° ∡ 17'42		asc. node	14899 Nov 09 06:31	23°M16'34	
max. Earth dist.	14898 Dec 02 20:25	25° х 33'09	1.31161 AU	morning set	14899 Nov 10 16:52	26°M10'29	
					14899 Nov 12 13:14	0° ∡ 7	
superior conj	14898 Dec 03 20:12	27° х 45'39	1°28'43	max. Earth dist.	14899 Nov 16 00:11		1.31732 AU
minimum elong	14898 Dec 03 18:32	27° ∡ ³36'19				, , =====	
	14898 Dec 04 20:16	0°ਰ		superior conj	14899 Nov 18 05:22	12° ∡ 13′08	1°15'19
evening rise	14898 Dec 10 12:51	12°る34'03		minimum elong	14899 Nov 18 03:08	12° ₹ 100'55	1°15'57
e vennig rise	14898 Dec 19 04:47	0°≈		evening rise	14899 Nov 24 23:23	27° × 103'40	1 1007
desc. node	14898 Dec 24 22:01	9° ≈ 49'51		evening rise	14899 Nov 26 08:18	0°る	
evening max el	14899 Jan 07 10:58	27°≈12'00	25°53'34	desc. node	14899 Dec 11 19:00	27° る 47'44	
evening max er	14899 Jan 10 17:32	0° \	23 33 3 1	dese. Hode	14899 Dec 13 09:29	0°≈	
retrograde	14899 Jan 21 09:29	4°) 14'37		evening max el	14899 Dec 19 23:35	7°≈33'29	24°21'09
evening set	14899 Jan 27 11:49	2°)(47'47		retrograde	14900 Jan 02 15:10	14°≈21'07	21 21 0)
min. Earth dist.	14899 Feb 01 00:02	0°) €09'42	0.57535 AU	evening set	14900 Jan 07 18:28	13°≈23'24	
mm. Earth dist.	14899 Feb 01 05:44	30°R≈	0.57555710	min. Earth dist.	14900 Jan 13 11:17	10°≈31'01	0.55783 AU
inferior conj	14899 Feb 03 23:22	28°≈04'47	_4°19'01	inferior conj	14900 Jan 15 15:59	9°≈10'11	
minimum elong	14899 Feb 04 08:20	27°≈49'01		minimum elong	14900 Jan 15 23:35	8°≈58'29	5°27'50
morning rise	14899 Feb 12 07:49	23°≈44'12	7 13 73	morning rise	14900 Jan 24 06:38	5°≈09'41	3 27 30
direct	14899 Feb 14 08:25	23°≈31'15		direct	14900 Jan 26 15:45	4°≈54'45	
asc. node	14899 Feb 18 07:51	23 ≈31 13 24°≈24'12		asc. node	14900 Jah 20 15:45 14900 Feb 05 05:15	9°≈15'55	
morning max el	14899 Feb 23 01:07	24 ≈24 12 27°≈47'00	18°46'25	morning max el	14900 Feb 05 05:13	9°≈49'31	19°48'16
morning max ci	14899 Feb 25 02:11	2/ ≈ 4/00	16 40 23	morning max ci	14900 Feb 19 04:43	0°) €	19 40 10
morning set	14899 Mar 11 05:53	23° ¥ 49′56		morning set	14900 Feb 23 10:07	8° ∺ 22'27	
morning set		23 π 4930		morning set	14900 Feb 25 10.07	6 X2221	
	14899 Mar 14 09:43	UI		gunarier con:	14000 Mar 02 07:10	240¥ 17100	0052122
annonic	14000 M 10 22 04	10° Ƴ 40'18	0024140	superior conj	14900 Mar 03 07:10	24° H 17'00	0°52'33
superior conj	14899 Mar 19 23:04	10° Y '40'18 10° Y 47'47	0°24'49	minimum elong	14900 Mar 03 09:43	24° ¥ 29'39 0° Ƴ	0°52'21
minimum elong	14899 Mar 20 00:39		0°24'28	may Feet 1'	14900 Mar 06 05:23	0°Υ° 6°Υ°05'06	1 27252 411
desc. node	14899 Mar 22 23:41	16° Y 17'33 23° Y 47'20	1 20620 411	max. Earth dist.	14900 Mar 09 10:31		1.37352 AU
max. Earth dist.	14899 Mar 27 03:56		1.39620 AU	desc. node	14900 Mar 12 02:25	6° Y 50'03 12° Y 50'30	
avanini	14899 Mar 30 18:17	0°8		evening rise	14900 Mar 13 03:35		
evening rise	14899 Mar 31 03:05	0° 8 37'15			14900 Mar 23 08:44	0° Β	
	14899 Apr 19 03:21	Π° 0			14900 Apr 14 04:22	Π °0	

evening max el	14900 Apr 17 14:52	3° Ⅱ 37'13	25°23'20	evening max el	14901 Mar 31 04:33	17° 8 25'25	26°28'35
retrograde	14900 Apr 29 20:01	10° Ⅱ 41′26		retrograde	14901 Apr 13 04:27	24° 8 48'10	
asc. node	14900 May 04 01:52	9° Ⅱ 26′23		evening set	14901 Apr 19 12:17	22° 8 16'01	
evening set	14900 May 05 17:32	8° Ⅱ 14'10		asc. node	14901 Apr 20 23:13	20° 8 57'26	
min. Earth dist.	14900 May 10 01:20	3° Ⅱ 28′21	0.67934 AU	min. Earth dist.	14901 Apr 23 13:58	18° 8 05'21	0.66703 AU
inferior conj	14900 May 11 09:44	1° Ⅱ 43'31	2°04'27	inferior conj	14901 Apr 25 11:10	15° 8 48'44	1°21'09
minimum elong	14900 May 11 07:34	1° Ⅱ 50'33	2°03'00	minimum elong	14901 Apr 25 09:20	15° 8 54'16	1°19'53
	14900 May 12 18:13	30° ₹ 8		morning rise	14901 May 01 07:25	10° 8 07'28	
morning rise	14900 May 16 22:00	25° 8 51'00		direct	14901 May 04 09:43	9° 8 13'44	
direct	14900 May 20 10:53	24° 8 39'12		morning max el	14901 May 10 20:42	12° 8 38'49	18°24'28
morning max el	14900 May 27 09:12	28° 8 25'35	19°09'09	desc. node	14901 May 23 18:37	0° Ⅱ 17'32	
	14900 May 28 21:27	Π $^{\circ}0$			14901 May 23 14:07	$\Pi^{\circ}0$	
desc. node	14900 Jun 05 21:44	10° Ⅱ 28'41		morning set	14901 May 31 05:05	12° Ⅱ 00'36	
greatest brilliancy	14900 Jun 09 07:02	15° Ⅱ 27′20	-0.7m		14901 Jun 11 15:26	0_{\circ} වෙ	
	14900 Jun 18 20:19	0° ©					
morning set	14900 Jun 20 05:41	2° © 08'30		superior conj	14901 Jun 15 22:25	6° © 42'03	
max. Earth dist.	14900 Jul 03 14:47	22° © 55'19	1.45493 AU	minimum elong	14901 Jun 15 16:57	6°920'46	2°09'19
				max. Earth dist.	14901 Jun 16 10:40	7° 5 29'50	1.45930 AU
superior conj	14900 Jul 06 13:30	27° © 33'23			14901 Jun 30 20:11	0 \circ Ω	
minimum elong	14900 Jul 06 15:44	27°9542'14	2°14'01	evening rise	14901 Jul 01 19:54	1° Ω 33'06	
	14900 Jul 08 02:36	0 \circ Ω		greatest brilliancy	14901 Jul 11 04:35	16° Ω 11'18	-0.8m
evening rise	14900 Jul 21 06:37	21° Ω 13'09		asc. node	14901 Jul 17 22:03	26° Ω 10′26	
	14900 Jul 26 15:27	0° m)			14901 Jul 20 19:09	0° m)	
asc. node	14900 Jul 31 01:18	7° m 04'35		evening max el	14901 Jul 23 24:00	3° m/ 37'20	18°51'31
evening max el	14900 Aug 09 12:25	19° m 51'37	18°18'36	retrograde	14901 Jul 30 16:32	7° m) 16'45	
retrograde	14900 Aug 15 21:25	23° m 15'06		evening set	14901 Aug 03 01:16	6° m/11'33	
evening set	14900 Aug 18 21:02	22° m/26'06		inferior conj	14901 Aug 08 14:28	0° m/28'20	
inferior conj	14900 Aug 24 18:38	16° m 57'26	2°11'33	minimum elong	14901 Aug 08 16:23	0° m/22'18	2°44'15
minimum elong	14900 Aug 24 21:01	16° m 50'29	2°10'35		14901 Aug 08 23:25	30°R Ω	
min. Earth dist.	14900 Aug 27 02:33	14° m) 15'38	0.64496 AU	min. Earth dist.	14901 Aug 10 08:16	28° Ω 16'45	0.66283 AU
morning rise	14900 Aug 30 19:31	10° m/37'12		morning rise	14901 Aug 14 06:38	24° Ω 02'52	
desc. node	14900 Sep 01 19:16	9° m 16'05		desc. node	14901 Aug 19 16:45	21° Ω 27'04	
direct	14900 Sep 06 08:46	8° Mp 01'26	0.000 (150	direct	14901 Aug 20 12:33	21° Ω 24'30	0.0000110
morning max el	14900 Sep 20 00:50	15° m 58'44	27°26'52	morning max el	14901 Sep 02 12:23	29° Ω 07'15	26°28'19
	14900 Oct 01 14:34	0∘ ™			14901 Sep 03 08:54	0° m)	
	14900 Oct 20 05:46	0°M			14901 Sep 25 10:34	ეა. ບ აიცი	
morning set	14900 Oct 25 07:03	9°M37'01		morning set	14901 Oct 08 09:26	22° ₽ 30′29	
asc. node	14900 Oct 27 03:15 14900 Oct 29 20:45	13°M17'09	1 220/0 AII	max. Earth dist.	14901 Oct 12 06:51 14901 Oct 12 07:37	0°M	1.34515 AU
max. Earth dist.	14900 OCt 29 20.43	16 11632 34	1.32860 AU			3°M24'07	1.34313 AU
superior conj	14900 Nov 02 10:24	26°M25'33	0°56'00	asc. node	14901 Oct 13 23:56	3 1162407	
minimum elong	14900 Nov 02 10:24 14900 Nov 02 08:08	26°M13'24	0°56'23	superior conj	14901 Oct 17 08:56	10° M L17'06	0°30'55
minimum clong	14900 Nov 02 08:08 14900 Nov 04 02:13	20 IIC13 24 0° √	0 30 23	minimum elong	14901 Oct 17 08:30 14901 Oct 17 07:20	10°ML08'47	0°31'10
evening rise	14900 Nov 04 02:13	11° ∡ 32′25		evening rise	14901 Oct 17 07:20 14901 Oct 24 19:40	25°M55'35	0 31 10
evening rise	14900 Nov 18 17:44	11 × 32 23		evening rise	14901 Oct 24 19:40 14901 Oct 26 18:45	25 ll c 55 55 0° ⊀ 1	
desc. node	14900 Nov 28 16:05	14°る37'09		evening max el	14901 Nov 13 02:15	27° ∡ 743′52	21°02'19
evening max el	14900 Nov 28 10:03 14900 Dec 01 09:24	14 03709 17°る31'09	22°38'08	desc. node	14901 Nov 15 02:15	29° x 54'58	21 02 19
retrograde	14900 Dec 14 08:11	23° る 56'12	22 30 00	dese. Hode	14901 Nov 15 15:51	0° る	
evening set	14900 Dec 18 04:12	23° る 24'05		retrograde	14901 Nov 24 18:46	3° 云 31'58	
min. Earth dist.	14900 Dec 25 17:38	19° る 58'02	0.54690 AU	evening set	14901 Nov 27 09:13	3° ප 15'56	
inferior conj	14900 Dec 26 14:33	19° る 28'30		3.0	14901 Dec 05 03:43	30°R. ₹	
minimum elong	14900 Dec 26 14:41	19° る 28'19	5°59'15	inferior conj	14901 Dec 06 05:36	29° 🗖 23'26	-5°30'54
morning rise	14901 Jan 04 02:25	15° ප් 40'44	5 57 15	minimum elong	14901 Dec 05 21:24		5°28'29
direct	14901 Jan 07 05:53	15° る 18'11		min. Earth dist.	14901 Dec 06 23:19	28° × 758'17	0.54474 AU
morning max el	14901 Jan 18 23:18	20° ප 56'04	21°13'16	morning rise	14901 Dec 14 09:53	25° × ⁷ 31'27	0.51171110
asc. node	14901 Jan 23 02:37	25° පි 33'01		direct	14901 Dec 18 13:05	24° × 54'43	
use. Houe	14901 Jan 26 07:35	0°≈			14901 Dec 30 05:14	0°ਰ	
morning set	14901 Feb 07 19:04	23°≈04'30		morning max el	14901 Dec 31 14:05	1°る14'03	22°56'48
0	14901 Feb 11 02:14	0° ∀		asc. node	14902 Jan 09 23:53	12° る 57'40	
		- /\			14902 Jan 19 12:07	0°≈	
superior conj	14901 Feb 15 02:15	8°) 22'09	1°13'36	morning set	14902 Jan 23 06:29	7°≈49'34	
minimum elong	14901 Feb 15 04:46	8°\(\frac{1}{35}\)'08	1°13'44		.,		
max. Earth dist.	14901 Feb 19 20:29	18° ¥ 00'08	1.35247 AU	superior conj	14902 Jan 30 05:02	22° ≈ 46'37	1°27'59
evening rise	14901 Feb 23 21:07	25°) 45'12		minimum elong	14902 Jan 30 06:53	22°≈56'30	1°28'30
desc. node	14901 Feb 24 16:45	27° ¥ 16'51		max. Earth dist.	14902 Feb 02 13:09	29°≈50'16	1.33488 AU
	14901 Feb 26 04:15	0°Υ			14902 Feb 02 15:01	0° ∺	
	14901 Mar 16 19:56	0°8		evening rise	14902 Feb 07 04:11	9° ★ 12'43	
		. •				. , 2 3	

superior conj

minimum elong

max. Earth dist.

14903 Jan 14 12:51

14903 Jan 14 13:43

superior conj

minimum elong

7°**≈**22'25

7°≈27'10

1°35'59

1°36'49

14903 Dec 29 23:29

14903 Dec 29 23:16

14903 Dec 30 19:08

22°**ප**03'01

22°る01'52

23°る52'34

1°37'52

1°38'50

1.31370 AU

	14004 Ion 02 12:20	0° ≈		minimum alana	14004 Dec. 12, 00:50	6° る 36'27	1°34'42
evening rise	14904 Jan 02 13:39 14904 Jan 05 22:33	0 ∞ 7°≈14'47		minimum elong max. Earth dist.	14904 Dec 13 09:50 14904 Dec 13 03:19	6°る00'00	1.31085 AU
desc. node	14904 Jan 16 06:41	7 ≈1447 27°≈16'27		evening rise	14904 Dec 13 03:19 14904 Dec 20 04:50	0 30000 21°る36'43	1.51065 AU
desc. Hode	14904 Jan 17 20:29	0° \		evening rise	14904 Dec 24 05:25	0°≈	
evening max el	14904 Feb 06 13:50	26° ¥ 36'19	27°22'42	desc. node	14905 Jan 02 03:29	0 ~ 16° ≈ 27'04	
evening max er	14904 Feb 10 14:04	0°Υ	27 22 72	dese. Hode	14905 Jan 11 06:52	0°) €	
retrograde	14904 Feb 20 13:28	3°Υ56'03		evening max el	14905 Jan 18 15:02		26°35'30
evening set	14904 Feb 27 08:44	1° Υ 50'14		retrograde	14905 Feb 01 14:25	15°) 24'44	20 33 30
e venning see	14904 Feb 29 23:34	30°R ∀		evening set	14905 Feb 08 01:47	13°) (41'56	
min. Earth dist.	14904 Mar 02 04:09	29° \ 01'45	0.60939 AU	min. Earth dist.	14905 Feb 12 04:40	11°) 04'30	0.58737 AU
inferior conj	14904 Mar 05 07:38	26°) 16'35		inferior conj	14905 Feb 15 08:39	8°) 40′12	
minimum elong	14904 Mar 05 12:04	26°) €06'50		minimum elong	14905 Feb 15 16:24	8°¥25'26	
asc. node	14904 Mar 11 15:30	21°) (46'40		morning rise	14905 Feb 23 10:15	4°) €07'08	
morning rise	14904 Mar 12 18:37	21°) 22'15		direct	14905 Feb 25 10:12	3° ¥ 53'06	
direct	14904 Mar 14 21:16	21°) 03'40		asc. node	14905 Feb 26 12:56	3°) 57′38	
morning max el	14904 Mar 21 22:39	24°) 36′19	17°53'57	morning max el	14905 Mar 05 09:38	7°) 49'43	18°21'13
-	14904 Mar 26 08:50	$0^{\circ}\mathbf{\Upsilon}$		•	14905 Mar 19 14:26	0° Y	
morning set	14904 Apr 06 13:16	18° Y 58'51		morning set	14905 Mar 21 03:53	2° Y ′57'27	
-	14904 Apr 12 15:52	0°8		•			
desc. node	14904 Apr 13 08:43	1° 8 14'52		superior conj	14905 Mar 30 11:53	20° Y ′29'03	0°05'58
				minimum elong	14905 Mar 30 12:18	20° Y '30'58	0°05'39
superior conj	14904 Apr 17 05:25	8° 8 00'53	-0°30'46	behind sun begin	14905 Mar 30 05:25	19° Y 59'31	
minimum elong	14904 Apr 17 02:40	7° 8 48'56	0°30'50	behind sun end	14905 Mar 30 19:11	21° Y ′02'21	
max. Earth dist.	14904 Apr 24 15:11	20° 8 29'13	1.42977 AU	desc. node	14905 Mar 31 05:18	21° Y ′48'21	
evening rise	14904 Apr 30 20:38	0°Ⅱ29′28			14905 Apr 04 19:54	0°8	
	14904 Apr 30 13:10	Π $^{\circ}0$		max. Earth dist.	14905 Apr 07 01:11	3° 8 49'45	1.40918 AU
	14904 May 20 18:40	0 \circ \odot		evening rise	14905 Apr 11 12:36	11° 8 19'24	
evening max el	14904 Jun 02 02:45	15° © 11'34	21°59'07		14905 Apr 23 11:19	Π °0	
asc. node	14904 Jun 07 12:46	19° © 31'19		evening max el	14905 May 15 18:05	29° Ⅱ 04'16	23°19'39
retrograde	14904 Jun 11 11:41	20°5540'35			14905 May 16 17:02	0 \circ \mathfrak{s}	
evening set	14904 Jun 16 03:44	18° © 44'20		asc. node	14905 May 25 09:51	5° © 13'06	
inferior conj	14904 Jun 21 09:52	12° © 26'24	3°05'20	retrograde	14905 May 26 07:24	5° © 16'40	
minimum elong	14904 Jun 21 09:00	12° © 29'28	3°04'15	evening set	14905 May 31 10:59	3° 5 05'44	
min. Earth dist.	14904 Jun 21 10:29	12° © 24'17	0.69020 AU		14905 Jun 03 07:55	30°R∏	
morning rise	14904 Jun 26 14:04	6° © 11'46		inferior conj	14905 Jun 05 19:34	26° Ⅲ 39'53	2°49'57
direct	14904 Jul 01 09:43	4° © 08'52		minimum elong	14905 Jun 05 17:56		2°48'41
desc. node	14904 Jul 10 08:48	9° © 11'04		min. Earth dist.	14905 Jun 05 07:13	27° Ⅱ 22'30	0.68970 AU
morning max el	14904 Jul 10 22:23	9° © 44'33	22°13'22	morning rise	14905 Jun 11 00:50	20° Ⅲ 32'58	
	14904 Jul 26 20:02	0°N		direct	14905 Jun 15 08:01	18° Ⅱ 49'55	20051120
morning set	14904 Aug 13 01:14	26° Ω 13'02		morning max el	14905 Jun 23 15:55	23° Ⅱ 35'43	20°51'39
D. d. F.	14904 Aug 15 09:06	0° Mp	1 41215 433	desc. node	14905 Jun 27 06:00	27° Ⅱ 32'10	
max. Earth dist.	14904 Aug 18 08:29	4° Mp 55'26	1.41315 AU		14905 Jun 29 06:08	0°©	
	14004 4 26 04:05	18° m 23'53	1900155		14905 Jul 20 03:21 14905 Jul 23 16:45	0° Ω 5° Ω 29'21	
superior conj minimum elong	14904 Aug 26 04:05 14904 Aug 26 09:34	18° Mp 48'13		morning set max. Earth dist.	14905 Jul 23 16.43	$18^{\circ}\Omega 06'35$	1.43367 AU
minimum ciong	14904 Aug 20 09:34 14904 Sep 01 13:37	0∘ ʊ	1 09 24	max. Earm dist.	14905 Jul 31 15.54	10 0600 33	1.43307 AU
asc. node	14904 Sep 01 13.37 14904 Sep 03 13:41	0 == 3° £ 42'55		superior conj	14905 Aug 07 12:42	29° Ω 25'28	1943'02
evening rise	14904 Sep 05 13:29	7° Ω 25'34		minimum elong	14905 Aug 07 12.42 14905 Aug 07 20:13	$29^{\circ} \Omega 57'08$	
2 1 cming 1150	14904 Sep 18 22:53	0°M			14905 Aug 07 20:54	0° mp	1 (2) 21
evening max el	14904 Sep 21 11:59	2°M54'34	18°16'04	evening rise	14905 Aug 19 12:25	20° mg 12'57	
retrograde	14904 Sep 28 20:30	6°M39'17		asc. node	14905 Aug 21 10:15	23° m/35'55	
evening set	14904 Sep 30 22:58	6°M21'33			14905 Aug 25 01:54	0ಂ ರ	
desc. node	14904 Oct 06 05:17	3°M26'54		evening max el	14905 Sep 05 00:30	15° ≏ 56'07	18°02'26
inferior conj	14904 Oct 08 10:05	1° M 39'43	-0°41'56	retrograde	14905 Sep 11 16:10	19° ≙ 22'03	-
minimum elong	14904 Oct 08 08:33	1° M 42'57		evening set	14905 Sep 14 02:10	18° ≏ 54'42	
3	14904 Oct 10 09:14	30° ₹ Ω		inferior conj	14905 Sep 20 20:13	13° ≏ 52'57	0°41'41
min. Earth dist.	14904 Oct 11 16:40	28° ჲ 55'25	0.58787 AU	minimum elong	14905 Sep 20 21:27	13° ≏ 49'56	0°41'22
morning rise	14904 Oct 15 14:42	26° ≏ 12'18		desc. node	14905 Sep 23 02:46	11° ≏ 40'04	
direct	14904 Oct 22 00:00	24° ≏ 23'00		min. Earth dist.	14905 Sep 23 22:26	10° ≏ 53'44	0.61064 AU
	14904 Nov 03 01:23	0° M		morning rise	14905 Sep 27 13:51	7° ≙ 56'57	
morning max el	14904 Nov 05 07:14	2°M03'35	27°29'27	direct	14905 Oct 04 05:16	5° ≙ 43'40	
	14904 Nov 25 11:31	0° ∡ ¹		morning max el	14905 Oct 18 10:50	13° ჲ 39'03	27°58'06
asc. node	14904 Nov 30 15:06	9° ∡ "29′29			14905 Oct 31 14:00	0° M	
morning set	14904 Dec 06 12:48	21° х 29′53		asc. node	14905 Nov 17 11:59	29°M11'11	
	14904 Dec 10 10:41	5°0			14905 Nov 17 21:47	0° ∡ 7	
				morning set	14905 Nov 20 15:33	5° х 35′23	
superior conj	14904 Dec 13 11:02	6° පි 43'10	1°33'46	max. Earth dist.	14905 Nov 26 09:51	17° ∡ 58'44	1.31334 AU

page 165

9°M10'18

14907 Oct 22 05:31

asc. node

14906 Nov 09 14:36

0°×7

max. Earth dist.	14907 Oct 23 03:01	10° ™ 59'04	1.33500 AU	asc. node	14908 Oct 08 02:10	29° ≏ 18'32	
					14908 Oct 08 10:27	0°M	
superior conj	14907 Oct 27 07:51	19° M 42'42	0°46'03				
minimum elong	14907 Oct 27 05:46	19° M 31'41	0°46'22	superior conj	14908 Oct 10 02:42	3°M23'00	0°18'37
	14907 Nov 01 03:22	0° ∡ ¹		minimum elong	14908 Oct 10 01:38	3° ™ 17'35	0°18'52
evening rise	14907 Nov 03 11:41	5° ∡ ¹00'46		evening rise	14908 Oct 17 19:42	19° ™ 19'37	
	14907 Nov 16 21:11	0°₹			14908 Oct 23 03:11	0° ∡ ¹	
desc. node	14907 Nov 23 18:29	8° る 40'35		evening max el	14908 Nov 05 03:59	19° ∡ ³37'16	20°26'45
evening max el	14907 Nov 24 05:40	9° පි 08'30	21°55'42	desc. node	14908 Nov 09 15:41	23° ∡ 11'17	
retrograde	14907 Dec 06 17:10	15° る 19'03		retrograde	14908 Nov 16 03:49	25° ∡ ¹05′26	
evening set	14907 Dec 09 23:25	14° る 55'21		evening set	14908 Nov 18 10:01	24° ∡ 52'39	
inferior conj	14907 Dec 18 15:06	11° ප 03'16	-5°55'25	inferior conj	14908 Nov 27 07:15	20° ∡ 57'37	-5°01'03
minimum elong	14907 Dec 18 11:12	11° る 08'43	5°54'07	minimum elong	14908 Nov 26 21:25	21° ∡ 11'57	4°57'42
min. Earth dist.	14907 Dec 18 10:42	11° る 09'25	0.54479 AU	min. Earth dist.	14908 Nov 28 16:39	20° ∡ 08'51	0.54674 AU
morning rise	14907 Dec 26 23:48	7° る 15'51		morning rise	14908 Dec 05 08:28	16° ∡ 58′06	
direct	14907 Dec 30 13:18	6° る 47'54		direct	14908 Dec 09 22:10	16° ∡ 13'11	
morning max el	14908 Jan 11 21:22	12° る 44'37	21°55'35	morning max el	14908 Dec 23 08:18	22° ∡ ¹47'28	23°43'48
asc. node	14908 Jan 18 05:06	20° ප 10'38		C	14908 Dec 29 16:21	ರ°0	
	14908 Jan 24 09:20	0° ≈		asc. node	14909 Jan 04 02:20	7° る 58'45	
morning set	14908 Feb 01 20:52	16° ≈ 41'40			14909 Jan 15 16:32	0° ≈	
morning sec	14908 Feb 08 03:08	0° ∀		morning set	14909 Jan 16 08:43	1° ≈ 26'13	
	1.500100 00 05.00	٠,٨		morning sec	11,70, 0411 10 00.15	1 10 20 13	
superior conj	14908 Feb 08 23:48	1° ¥ 48'59	1°20'29	superior conj	14909 Jan 23 04:58	16° ≈ 18'47	1°32'08
minimum elong	14908 Feb 09 02:05	2°\(\frac{1}{2}\)01'00	1°20'47	minimum elong	14909 Jan 23 06:26	16° ≈ 26'40	1°32'49
max. Earth dist.	14908 Feb 13 03:10	10° ¥ 21'58	1.34449 AU	max. Earth dist.	14909 Jan 25 23:24	22°≈15'36	1.32870 AU
evening rise	14908 Feb 17 09:36	18°) 46'25	1.5111) 110	max. Earth dist.	14909 Jan 29 16:38	0° ∀	1.52070110
desc. node	14908 Feb 19 18:57	23° H 16'38		evening rise	14909 Jan 30 21:24	2° ¥ 25'10	
dese. Hode	14908 Feb 23 12:16	0° Υ		desc. node	14909 Feb 05 15:32	13° \(\) 27'57	
	14908 Mar 14 04:24	0°8		dese. Hode	14909 Feb 15 09:15	0°Υ	
evening max el	14908 Mar 23 11:08	10° 8 35'16	26°51'05	evening max el	14909 Mar 06 00:14	23° Υ 59'51	27°26'55
retrograde	14908 Mar 25 11:08 14908 Apr 05 17:23	18° 8 02'05	20 31 03	evening max er	14909 Mar 14 00:29	0° 8	27 20 33
evening set	14908 Apr 03 17:23	15° 8 30'02		retrograde	14909 Mar 19 16:45	1° 8 29'25	
asc. node	14908 Apr 15 01:43	13° 8 47'33		retrograde	14909 Mar 24 23:12	1 O2923 30°RΥ	
min. Earth dist.	14908 Apr 16 04:28	11° 8 33'20	0.66054 AU	evening set	14909 Mar 26 11:02	29° Υ '01'28	
inferior conj	14908 Apr 18 06:54	9° 8 06'05	0°59'13	min. Earth dist.	14909 Mar 30 06:43	25° Y 36'03	0.64274 AU
minimum elong	14908 Apr 18 05:26	9° 8 10'21	0°58'08	inferior conj	14909 Mai 30 00:43	23° Y 50'57	
_	14908 Apr 18 03:20	3° 8 29'48	0 36 06	minimum elong	14909 Apr 01 21:04 14909 Apr 01 21:07	22° Y 50'48	0°01'55
morning rise	•	2° 8 42'50		transit middle	14909 Apr 01 21:07	22° Y '50'48	0°01'55
direct	14908 Apr 27 05:29	6° 8 02'48	10010120		1	22° Y 59'00	0 01 33
morning max el	14908 May 03 14:02	26° 8 09'51	18 10 28	transit begin	14909 Apr 01 18:03	22 γ 39 00 22° γ 42'37	
desc. node	14908 May 17 20:55	20 O 09 31		transit end	14909 Apr 02 00:12	22° Y 45'27	
	14908 May 20 06:20			asc. node	14909 Apr 01 23:08	17° Υ 28'59	
morning set	14908 May 22 17:25	3° Ⅱ 57'30		morning rise	14909 Apr 08 09:20	1/° γ 28'39 16° γ '55'47	
superior conj	14908 Jun 06 20:46	27° Ⅱ 59'38	2000124	direct	14909 Apr 10 22:38 14909 Apr 17 07:07	10° γ 35'47 20° Υ 11'40	17°50'04
		27° Ⅲ 3938 27° Ⅲ 29'24		morning max el	-	0° 8	17 30 04
minimum elong	14908 Jun 06 13:03 14908 Jun 08 03:33	27 H2924 0°©	2 01 03		14909 Apr 24 18:40		
Earth diet	14908 Jun 08 03:33	1° © 03'09	1 45007 ATT	morning set	14909 May 04 07:58	15° 8 43'01	
max. Earth dist.		23°501'19	1.45897 AU	desc. node	14909 May 04 17:39	16° 8 23'44 0° Ⅱ	
evening rise	14908 Jun 22 23:02	23 3 01 19 0° Ω			14909 May 12 22:02	υщ	
	14908 Jun 27 11:12		0.7		14000 M 17 17-22	7° ∏ 47'43	1921100
greatest brilliancy	14908 Jul 04 11:58	10° Ω 45'31 21° Ω 29'14	-0.7m	superior conj	14909 May 17 17:22	7° П 13'44	
asc. node	14908 Jul 12 00:20	$26^{\circ}\Omega 51'08$	19°10'35	minimum elong	14909 May 17 08:54		1.45274 AU
evening max el	14908 Jul 16 14:30		19-10-35	max. Earth dist.	14909 May 22 15:39		1.43274 AU
	14908 Jul 20 18:27	0° M)			14909 May 31 21:17	0°©	
retrograde	14908 Jul 23 12:31	0° m/40'38		evening rise	14909 Jun 02 11:28	2°526'17	0.6
. ,	14908 Jul 26 04:04	30°R€		greatest brilliancy	14909 Jun 17 05:18	24°530'49	-0.6m
evening set	14908 Jul 27 01:25	29° Ω 28'04	2054140	4-	14909 Jun 21 02:08	0°Ω	
inferior conj	14908 Aug 01 12:04	23° Ω 39'16		asc. node	14909 Jun 28 21:09	9° Ω 46'51	20007110
minimum elong	14908 Aug 01 13:39	23° Ω 34'09	2°53'53	evening max el	14909 Jun 29 18:42	10° Ω 42'27	20°06'18
min. Earth dist.	14908 Aug 02 23:48	21° Ω 43'40	0.66934 AU	retrograde	14909 Jul 07 11:19	15° Ω 04'57	
morning rise	14908 Aug 07 01:14	17° Ω 13'40		evening set	14909 Jul 11 10:14	13° Ω 34'57	2000107
direct	14908 Aug 13 03:13	14° Ω 36'47		inferior conj	14909 Jul 16 17:01	7° Ω 33'27	
desc. node	14908 Aug 13 19:15	14° Ω 38'29	25056144	minimum elong	14909 Jul 16 17:39	7° Ω 31'19	3°07'12
morning max el	14908 Aug 25 17:36	22° Ω 07'35	25~56'44	min. Earth dist.	14909 Jul 17 14:39	6° Ω 19'56	0.68113 AU
	14908 Sep 01 15:15	0° m)		morning rise	14909 Jul 22 00:43	1° Ω 09'56	
	14908 Sep 22 01:29	0° ⊽		1.	14909 Jul 23 12:59	30°₹©	
morning set	14908 Sep 30 16:44	15° Ω 07'03	1 25260 433	direct	14909 Jul 27 15:38	28°542'08	
max. Earth dist.	14908 Oct 04 09:40	22° ≏ 05'06	1.35369 AU	desc. node	14909 Jul 31 16:40	29° 5 544'48	

	14000 4 01 04 22	00.0		1.	14010 1 1 11 00 51	120507142	
	14909 Aug 01 04:32	0°Ω	2402211.0	direct	14910 Jul 11 08:51	13°906'43	
morning max el	14909 Aug 08 04:23	5° Ω 36'26	24°33'18	desc. node	14910 Jul 18 14:00	16°524'28	22002154
	14909 Aug 27 01:33	0° M)		morning max el	14910 Jul 21 15:35	19° © 13'07	23*03*54
morning set	14909 Sep 12 19:22	26° m 56'26			14910 Jul 30 18:02	0° Ω	
max. Earth dist.	14909 Sep 14 13:04 14909 Sep 16 09:31	0° <u>Ω</u> 3° Ω 10'17	1.37603 AU	morning set	14910 Aug 20 04:47	0°Mp 7°Mp48'12	
max. Earm dist.	14909 Sep 16 09.31	3 == 1917	1.37003 AU	morning set max. Earth dist.	14910 Aug 25 00:05 14910 Aug 29 08:07	15° Mp 06'38	1.39984 AU
superior conj	14909 Sep 23 10:34	16° ≏ 31'23	-0°13'43	max. Earm dist.	14910 Aug 29 08.07	13 110036	1.33364 AU
minimum elong	14909 Sep 23 11:29	16° ⊆ 35'46		superior conj	14910 Sep 06 03:28	28° m 57'52	-0°49'13
behind sun begin	14909 Sep 23 07:40	16° ⊆ 17'17	0 13 22	minimum elong	14910 Sep 06 07:12	29° m) 14'58	
behind sun end	14909 Sep 23 15:18	16° ⊆ 54'16		minimum crong	14910 Sep 06 17:00	0ಂ ರ	0 10 11
asc. node	14909 Sep 24 22:45	19° ≏ 27'31		asc. node	14910 Sep 11 19:17	9° ₽ 33'07	
	14909 Sep 30 06:00	0°M₊		evening rise	14910 Sep 15 18:15	17° ≏ 07'20	
evening rise	14909 Oct 01 22:54	3°M24'42		S	14910 Sep 22 16:13	0° M	
C	14909 Oct 17 19:51	0° ∡ ¹		evening max el	14910 Oct 01 18:01	12°M59'50	18°32'52
evening max el	14909 Oct 18 16:44	0° ∡ ′54′38	19°18'43	retrograde	14910 Oct 09 17:20	17° M 01'46	
desc. node	14909 Oct 27 12:59	5° ∡ ³35'37		evening set	14910 Oct 11 16:14	16°M48'00	
retrograde	14909 Oct 28 01:31	5° х 36′27		desc. node	14910 Oct 14 10:23	15°M45'52	
evening set	14909 Oct 29 22:33	5° ₹ ¹25'56		inferior conj	14910 Oct 19 13:48	12°ML18'44	-1°38'43
inferior conj	14909 Nov 07 12:13	1° ∡ 16'34	-3°25'05	minimum elong	14910 Oct 19 09:52	12°M26'19	1°36'32
minimum elong	14909 Nov 07 03:44	1° ∡ °30'34	3°21'15	min. Earth dist.	14910 Oct 22 18:30	9° M 51′54	0.57558 AU
	14909 Nov 09 10:30	30°RML		morning rise	14910 Oct 27 00:03	7°M11'06	
min. Earth dist.	14909 Nov 10 02:23	29°M34'14	0.55766 AU	direct	14910 Nov 02 02:51	5° M 36′54	
morning rise	14909 Nov 15 06:36	26°M46'22		morning max el	14910 Nov 16 09:24	13°ML07'18	26°55'18
direct	14909 Nov 20 17:09	25°M38'57			14910 Nov 29 17:27	0° ∡ ¹	
	14909 Dec 01 13:41	0° ∡ ¹		asc. node	14910 Dec 08 20:30	15° ∡ ³39′07	
morning max el	14909 Dec 04 17:58	2° ∡ ⁴44'27	25°29'59		14910 Dec 15 23:08	0°ಕ	
asc. node	14909 Dec 21 23:28	26° ∡ ³32'19		morning set	14910 Dec 16 05:57	0° る 36'26	
	14909 Dec 23 21:03	0°ಕ					
morning set	14909 Dec 31 20:19	16° පි 06'11		superior conj	14910 Dec 23 01:29		1°36'52
	14910 Jan 07 03:52	0° ≈		minimum elong	14910 Dec 23 00:50	15° ට 34'43	1°37'49
				max. Earth dist.	14910 Dec 23 09:25	16° る 22'47	1.31179 AU
superior conj	14910 Jan 07 14:13	0°≈57'21	1°37'31	evening rise	14910 Dec 29 21:46	0° ≈ 40'34	
minimum elong	14910 Jan 07 14:38	0°≈59'38	1°38'26	1 1	14910 Dec 29 14:09	0° ≈	
max. Earth dist.	14910 Jan 09 02:21	4°≈16'46	1.31769 AU	desc. node	14911 Jan 10 08:55	22°≈50'18	
evening rise	14910 Jan 14 18:18	16° ≈ 25'20 0° ¥		avanina may al	14911 Jan 14 17:23	0° ∺ 19° ∺ 00'10	27906152
daga mada	14910 Jan 21 16:00 14910 Jan 23 12:11	3° ∺ 21'36		evening max el	14911 Jan 29 15:46 14911 Feb 12 15:59	26°\(\frac{1}{16}\)'26	27 00 32
desc. node	14910 Jan 23 12.11 14910 Feb 10 03:26	5 π2136 0° Υ		retrograde	14911 Feb 12 13.39 14911 Feb 19 08:45	26 X 16 26 24° X 19'29	
evening max el	14910 Feb 16 10:33	6° Υ 51'53	27°33'45	evening set min. Earth dist.	14911 Feb 19 08:43		0.59985 AU
retrograde	14910 Mar 02 08:41	14° Υ 17'14	27 33 43	inferior conj	14911 Feb 26 11:00	18° \ 58'36	
evening set	14910 Mar 09 05:23	12° Υ ′00'47		minimum elong	14911 Feb 26 16:54	18° ¥ 46′22	
min. Earth dist.	14910 Mar 12 23:30	9° Υ '01'20	0.62204 AU	morning rise	14911 Mar 06 04:27	14°) 13'19	2 3033
inferior conj	14910 Mar 15 23:36	6° Υ 11'26		asc. node	14911 Mar 06 18:02	14°) €05'41	
minimum elong	14910 Mar 16 02:12	6° Y °05′18	1°14'07	direct	14911 Mar 08 05:16	13° ¥ 57'14	
asc. node	14910 Mar 19 20:35	2° Y ′51′08		morning max el	14911 Mar 15 15:07	17° ¥ 39′02	18°03'08
morning rise	14910 Mar 23 01:58	1° Y 06'30		•	14911 Mar 24 10:37	0° Y	
direct	14910 Mar 25 07:50	0° Ƴ 43'42		morning set	14911 Mar 31 04:55	12° Y 12'23	
morning max el	14910 Apr 01 00:37	4° Υ ′07'00	17°47'18	desc. node	14911 Apr 08 10:55	27° Ƴ 19'47	
morning set	14910 Apr 16 21:47	28° Y 33'51			14911 Apr 09 22:51	0° 8	
	14910 Apr 17 17:18	0° 8					
desc. node	14910 Apr 21 14:18	6° 8 48'23		superior conj	14911 Apr 10 06:26	0° 8 33'36	
				minimum elong	14911 Apr 10 05:11	0° 8 28'04	0°14'54
superior conj	14910 Apr 28 12:06	18° 8 38'20		behind sun begin	14911 Apr 10 02:21	0° 8 15'31	
minimum elong	14910 Apr 28 07:03	18° 8 17'04	0°53'09	behind sun end	14911 Apr 10 08:01	0° 8 40'37	
	14910 May 05 10:01	0°П		max. Earth dist.	14911 Apr 17 20:28	13° 8 35'03	1.42132 AU
max. Earth dist.	14910 May 05 08:22		1.43971 AU	evening rise	14911 Apr 23 05:03	22° 8 19'45	
evening rise	14910 May 13 00:47	12° Ⅱ 01'00			14911 Apr 28 02:06	0°II	
	14910 May 24 23:21	0°©	21015100		14911 May 19 02:23	0°50	22022102
evening max el	14910 Jun 12 16:52	24°533'52	21°15'08	evening max el	14911 May 26 10:12	8°926'21	22°33'02
asc. node	14910 Jun 15 18:04	27°©16'21		asc. node	14911 Jun 02 15:07	13°9542'54	
retrograde	14910 Jun 21 10:11	29° © 37'59 27° © 51'02		retrograde	14911 Jun 05 07:30	14°©14'48 12°©12'13	
evening set inferior conj	14910 Jun 25 19:44 14910 Jul 01 01:24	21°938'25	3°09'29	evening set inferior conj	14911 Jun 10 04:18 14911 Jun 15 11:12	5°950'30	3°00'05
minimum elong	14910 Jul 01 01:24 14910 Jul 01 01:03	21 938 23 21°939'38	3°08'30	minimum elong	14911 Jun 15 09:59	5°954'46	2°58'56
min. Earth dist.	14910 Jul 01 09:32	21°5010'04	0.68822 AU	min. Earth dist.	14911 Jun 15 06:20	6°907'31	0.69051 AU
morning rise	14910 Jul 06 06:08	15°9519'46	3.55522710	Zarar dist.	14911 Jun 20 05:49	30°RⅡ	5.5,051 110
	>10 Jul 00 00.00	• 1740				50 I	

morning rise	14011 Jun 20 15:21	200Д20142		min Earth dist	14012 May 20 02:47	210 1105112	0.60000 ATT
morning rise direct	14911 Jun 20 15:31	29° Ⅱ 38'43 27° Ⅱ 44'00		min. Earth dist.	14912 May 29 02:47	21° Ⅱ 05'12 20° Ⅱ 04'51	0.68800 AU 2°40'19
direct	14911 Jun 25 05:48 14911 Jun 30 20:36	27°Щ44100 0°©		inferior conj	14912 May 29 20:29 14912 May 29 18:36		2°38'59
morning max el	14911 Jul 04 05:52	0 95 2°958'18	21°37'22	minimum elong morning rise	14912 May 29 18.36 14912 Jun 04 02:58	20 Д 1113 14° Д 01'21	2 38 39
desc. node	14911 Jul 04 03:32	4°514'20	21 3/22	direct	14912 Jun 08 05:04	14 H 01 21 12° H 26'44	
desc. node	14911 Jul 24 16:41	0°Ω		morning max el	14912 Jun 16 02:07		20°20'24
morning set	14911 Aug 05 04:25	17° Ω 37'11		desc. node	14912 Jun 21 08:24	22° I 55'09	20 20 24
max. Earth dist.	14911 Aug 11 11:13	27° Ω 45'42	1.42240 AU	dese. Hode	14912 Jun 26 15:02	0°95	
man zam ust.	14911 Aug 12 19:42	0°m	122.10.110	morning set	14912 Jul 14 12:37	26°935'28	
		* ***			14912 Jul 16 17:28	0°Ω	
superior conj	14911 Aug 19 01:05	10° mp 33'31	-1°24'39	max. Earth dist.	14912 Jul 23 21:25		1.44098 AU
minimum elong	14911 Aug 19 07:42	11° m)02'10					
asc. node	14911 Aug 29 15:51	29° m/32'04		superior conj	14912 Jul 29 23:44	21° Ω 10'25	-1°54'40
	14911 Aug 29 21:58	0∘ <u>⊽</u>		minimum elong	14912 Jul 30 07:09	21° Ω 40'56	1°54'45
evening rise	14911 Aug 30 02:00	0° ჲ 18'25		S	14912 Aug 04 06:46	0° m	
evening max el	14911 Sep 15 03:44	25° ≏ 44'23	18°07'54	evening rise	14912 Aug 11 17:20	12° Mp 45'40	
retrograde	14911 Sep 22 03:42	29° ₽ 19'03		asc. node	14912 Aug 15 12:27	19° m 20'00	
evening set	14911 Sep 24 09:14	28° ≏ 57'41			14912 Aug 21 22:26	0∘ ⊽	
desc. node	14911 Oct 01 07:50	24° ≏ 18'39		evening max el	14912 Aug 28 17:40	8° ≏ 57'46	18°02'22
inferior conj	14911 Oct 01 12:51	24° ≏ 07'24	-0°03'57	retrograde	14912 Sep 04 05:03	12° ≏ 19'25	
minimum elong	14911 Oct 01 12:44	24° ≙ 07'41	0°03'34	evening set	14912 Sep 06 18:43	11° ≏ 46'48	
transit middle	14911 Oct 01 12:44	24° ≙ 07'41	0°03'34	inferior conj	14912 Sep 13 06:22	6° ≙ 37'14	1°10'45
transit begin	14911 Oct 01 09:27	24° ≏ 15′03		minimum elong	14912 Sep 13 08:15	6° ჲ 32'25	1°10'07
transit end	14911 Oct 01 16:01	24° ≏ 00'18		min. Earth dist.	14912 Sep 16 04:36	3° ≏ 38′20	0.62045 AU
min. Earth dist.	14911 Oct 04 18:47	21° ≏ 13'58	0.59754 AU	desc. node	14912 Sep 17 05:19	2° ჲ 39'32	
morning rise	14911 Oct 08 12:55	18° ≏ 26'45		morning rise	14912 Sep 19 19:18	0° ჲ 32'36	
direct	14911 Oct 15 01:51	16° ≏ 26′13			14912 Sep 20 14:57	30° ₽,™)	
morning max el	14911 Oct 29 08:39	24° ≏ 14'10	27°46'19	direct	14912 Sep 26 11:38	28° Mp 11'06	
	14911 Nov 03 14:37	0°M₊			14912 Oct 02 18:57	0∘ ত	
	14911 Nov 23 00:41	0° ∡		morning max el	14912 Oct 10 14:35	6° ₾ 09'05	27°58'17
asc. node	14911 Nov 25 17:27	5° ∡ 10'10			14912 Oct 28 16:26	0° M	
morning set	14911 Nov 30 11:47	14° ₹ 52'20		asc. node	14912 Nov 11 14:19	24°M58'32	
max. Earth dist.	14911 Dec 06 17:11	28° ₹ '26'30	1.31124 AU	morning set	14912 Nov 13 11:49	28° ™ 49'08	
	14911 Dec 07 09:57	0° ප			14912 Nov 14 01:34	0° ∡ 7	
				T 4 F 4			1 21 (12 4)
			1920116	max. Earth dist.	14912 Nov 18 21:57	10° ⊀ 19'35	1.31613 AU
superior conj	14911 Dec 07 12:51	0° ರ 16'17			14912 Nov 18 21:57	10° √ 19'35	
minimum elong	14911 Dec 07 12:51 14911 Dec 07 11:18	0°ප16'17 0°ප07'35	1°30'16 1°31'07	superior conj	14912 Nov 18 21:57 14912 Nov 20 22:30	10° ₹ 19'35 14° ₹ 45'58	1°17'45
	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40	0°ප16'17 0°ප07'35 15°ප05'33		superior conj minimum elong	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20	10° × 19'35 14° × 45'58 14° × 34'01	
minimum elong evening rise	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27	0°쥥16'17 0°쥥07'35 15°쥥05'33 0°≋		superior conj	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03	10° \$\times^19'35\$ 14° \$\times^435'58\$ 14° \$\times^434'01\$ 29° \$\times^35'28\$	1°17'45
minimum elong	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21		superior conj minimum elong evening rise	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🖈 35'28 0° 궁	1°17'45
minimum elong evening rise desc. node	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥	1°31'07	superior conj minimum elong	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🗗 35'28 0° 石 29° 石 51'04	1°17'45
minimum elong evening rise desc. node evening max el	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°升		superior conj minimum elong evening rise desc. node	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 551'04 0° ≈	1°17'45 1°18'24
minimum elong evening rise desc. node evening max el retrograde	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0°升 0°升16'54 7°升21'02	1°31'07	superior conj minimum elong evening rise desc. node evening max el	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🛪 35'28 0° 풉 29° ♂ 51'04 0° ≈ 10° ≈ 44'34	1°17'45 1°18'24
minimum elong evening rise desc. node evening max el retrograde evening set	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05	1°31'07 26°05'26	superior conj minimum elong evening rise desc. node evening max el retrograde	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🖈 35'28 0° 云 29° 云 51'04 0° ※ 10° ※ 44'34 17° ※ 34'41	1°17'45 1°18'24
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37	1°31'07 26°05'26 0.57834 AU	superior conj minimum elong evening rise desc. node evening max el	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🛪 35'28 0° 吞 29° 吞 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33	1°17'45 1°18'24
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05	1°31'07 26°05'26 0.57834 AU -4°06'25	superior conj minimum elong evening rise desc. node evening max el retrograde evening set	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🖈 35'28 0° 云 29° 云 51'04 0° ※ 10° ※ 44'34 17° ※ 34'41	1°17'45 1°18'24 24°35'59 0.56013 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37 1°¥02'19	1°31'07 26°05'26 0.57834 AU -4°06'25	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🛪 35'28 0° 💍 29° 🕏 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37 1°¥02'19 0°¥46'37	1°31'07 26°05'26 0.57834 AU -4°06'25	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37 1°¥02'19 0°¥46'37 30°R≈	1°31'07 26°05'26 0.57834 AU -4°06'25	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 02'43	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0°米 0°米16'54 7°米21'02 5°米50'05 3°米12'37 1°米02'19 0°米46'37 30°R≈ 26°≈38'23	1°31'07 26°05'26 0.57834 AU -4°06'25	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 02'43 8° ≈ 12'29	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0°米 0°米16'54 7°米21'02 5°米50'05 3°米12'37 1°米02'19 0°米46'37 30°₹≈ 26°≈38'23 26°≈25'16	1°31'07 26°05'26 0.57834 AU -4°06'25	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 02'43 8° ≈ 12'29 7° ≈ 58'10	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 18 10:42 14912 Feb 21 15:30	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0°升 0°升16'54 7°升21'02 5°升50'05 3°升12'37 1°升02'19 0°升46'37 30°R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°升	1°31'07 26°05'26 0.57834 AU -4°06'25	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 02'43 8° ≈ 12'29 7° ≈ 58'10 11° ≈ 37'47	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 21 15:30	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0°升 0°升16'54 7°升21'02 5°升50'05 3°升12'37 1°升02'19 0°升46'37 30°R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°升 0°升35'53 26°升22'30	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 12'29 7° ≈ 58'10 11° ≈ 37'47 12° ≈ 46'25	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 22:39	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0°升 0°升16'54 7°升21'02 5°升50'05 3°升12'37 1°升02'19 0°升46'37 30°R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°升	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 26 03:25	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🕏 35'28 0° 💍 29° 🕏 51'04 0° ※ 10° ※44'34 17° ※34'41 16° ※32'33 13° ※43'38 12° ※15'33 12° ※02'43 8° ※12'29 7° ※58'10 11° ※37'47 12° ※46'25 0° 升 10° 升 52'53	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37 1°¥02'19 0°¥46'37 30°R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°¥ 0°¥35'53 26°¥22'30 0°Y	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14913 Jan 05 20:02 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 26 03:25	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 02'43 8° ≈ 12'29 7° ≈ 58'10 11° ≈ 37'47 12° ≈ 46'25 0° ₹ 10° ₹ 52'53 26° ₹ 54'20	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ¥ 0° ¥16'54 7° ¥21'02 5° ¥50'05 3° ¥12'37 1° ¥02'19 0° ¥46'37 30° R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0° ¥ 0° ¥35'53 26° ¥22'30 0° ♀	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 26 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 13° ≈ 43'38 12° ≈ 15'33 12° ≈ 02'43 8° ≈ 12'29 7° ≈ 58'10 11° ≈ 37'47 12° ≈ 46'25 0° ₹ 10° ₹ 52'53 26° ₹ 54'20 27° ₹ 06'32	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37 1°¥02'19 0°¥46'37 30°R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°¥ 0°¥35'53 26°¥22'30 0°Y	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 26 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 06 05:30 14913 Mar 07 17:04	10° ₹19'35 14° ₹45'58 14° ₹34'01 29° ₹35'28 0° ₹ 29° ₹51'04 0° ≈ 10° ≈44'34 17° ≈34'41 16° ≈32'33 13° ≈43'38 12° ≈15'33 12° ≈02'43 8° ≈12'29 7° ≈58'10 11° ≈37'47 12° ≈46'25 0° ₹ 10° ₹52'53 26° ₹54'20 27° ₹06'32 0° ♀	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ₩ 0°₩16'54 7°₩21'02 5°₩50'05 3°₩12'37 1°₩02'19 0°₩46'37 30°R≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°₩ 0°₩35'53 26°₩22'30 0°Ψ	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01	10° ₹19'35 14° ₹45'58 14° ₹34'01 29° ₹35'28 0° ₹ 29° ₹51'04 0° ≈ 10° ≈44'34 17° ≈34'41 16° ≈32'33 12° ≈15'33 12° ≈02'43 8° ≈12'29 7° ≈58'10 11° ≈37'47 12° ≈46'25 0° ₹ 10° ₹52'53 26° ₹54'20 27° ₹06'32 0° ₹ 8° ₹26'31	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 25 07:28 14912 Mar 25 07:28 14912 Mar 30 04:27	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ₭ 0° ₭16'54 7° ₭21'02 5° ₭50'05 3° ₭12'37 1° ₭02'19 0° ₭46'37 30°₨≈ 26°≈38'23 26°≈25'16 27°≈00'23 0° ₭ 0° ₭35'53 26° ₭22'30 0° ♀	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05	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.	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 26 03:25 14913 Mar 06 05:30 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01 14913 Mar 12 04:01	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 12° ≈ 15'33 12° ≈ 12'29 7° ≈ 58'10 11° ≈ 37'47 12° ≈ 46'25 0° ₹ 10° ₹ 52'53 26° ₹ 54'20 27° ₹ 06'32 0° ₹ 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48
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.	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 09 14:53 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 25 07:28 14912 Mar 30 04:27 14912 Mar 30 04:27 14912 Mar 30 04:27	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0°¥ 0°¥16'54 7°¥21'02 5°¥50'05 3°¥12'37 1°¥02'19 0°¥46'37 30°₹≈ 26°≈38'23 26°≈25'16 27°≈00'23 0°¥ 0°¥35'53 26°¥22'30 0°°Y 13°°Y22'49 13°°Y29'02 17°°Y53'35 26°°Y35'55 0°\$	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41	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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01 14913 Mar 12 11:00 14913 Mar 16 03:45	10° ₹19'35 14° ₹45'58 14° ₹34'01 29° ₹35'28 0° ₹ 29° ₹51'04 0° ≈ 10° ≈44'34 17° ≈34'41 16° ≈32'33 12° ≈15'33 12° ≈15'33 12° ≈02'43 8° ≈12'29 7° ≈58'10 11° ≈37'47 12° ≈46'25 0° ₹ 10° ₹52'53 26° ₹54'20 27° ₹06'32 0° ₹ 8° ₹26'31 8° ₹26'31 8° ₹58'45 15° ₹39'18	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 25 07:28 14912 Mar 30 04:27 14912 Apr 01 03:42 14912 Apr 01 03:42 14912 Apr 01 03:42 14912 Apr 03 06:07	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ₭ 0° ₭16'54 7° ₭21'02 5° ₭50'05 3° ₭12'37 1° ₭02'19 0° ₭46'37 30° ₨ 26°≈38'23 26°≈25'16 27°≈00'23 0° ₭ 0° ₭35'53 26° ₩22'30 0° Ŷ 13° Ŷ22'49 13° Ŷ29'02 17° Ŷ53'35 26° Ŷ35'55 0° ₭ 3° ₩33'28	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41	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.	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01 14913 Mar 12 04:01 14913 Mar 16 03:45 14913 Mar 16 03:45 14913 Mar 16 03:45	10° 🖈 19'35 14° 🖈 45'58 14° 🖈 34'01 29° 🗷 35'28 0° 🛪 29° 🕏 51'04 0° ※ 10° ※ 44'34 17° ※ 34'41 16° ※ 32'33 12° ※ 15'33 12° ※ 02'43 8° ※ 12'29 7° ※ 58'10 11° ※ 37'47 12° ※ 46'25 0° 升 10° 升 52'53 26° 升 54'20 27° 升 06'32 0°	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 03:39 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 25 07:28 14912 Mar 30 04:27 14912 Apr 01 03:42 14912 Apr 03 06:07 14912 Apr 03 06:07 14912 Apr 03 06:07	0°る16'17 0°る07'35 15°る05'33 0°≈ 11°≈44'21 0° ₭ 0° ₭16'54 7° ₭21'02 5° ₭50'05 3° ₭12'37 1° ₭02'19 0° ₭46'37 30° ₨ 26°≈38'23 26°≈25'16 27°≈00'23 0° ₭ 0° ₭35'53 26° ₭22'30 0° Ŷ 13° Ŷ22'49 13° Ŷ29'02 17° Ŷ53'35 26° Ŷ35'55 0° ₭ 3° ₭33'28 0° Ⅱ	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41 1.39960 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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01 14913 Mar 12 04:01 14913 Mar 16 03:45 14913 Mar 16 03:45 14913 Mar 16 03:45 14913 Mar 16 03:45 14913 Mar 24 16:06 14913 Mar 24 16:06	10° 🖈 19'35 14° 🖈 45'58 14° 🛪 34'01 29° 🛪 35'28 0° 🛪 29° 🕏 51'04 0° ※ 10° ※44'34 17° ※34'41 16° ※32'33 12° ※02'43 8° ※12'29 7° ※58'10 11° ※37'47 12° ※46'25 0° 升 10° 升 52'53 26° 升 54'20 27° 升 06'32 0°	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31 1.37687 AU
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 30 04:27 14912 Apr 01 03:42 14912 Apr 03 06:07 14912 Apr 03 06:07 14912 Apr 20 07:02 14912 May 08 00:42	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ₭ 0° ₭16'54 7° ₭21'02 5° ₭50'05 3° ₭12'37 1° ₭02'19 0° ₭46'37 30° ₨ 26°≈38'23 26°≈25'16 27°≈00'23 0° ₭ 0° ₭35'53 26° ₭22'30 0° Ŷ 13° Ŷ22'49 13° Ŷ29'02 17° Ŷ53'35 26° Ŷ35'55 0° ₭ 3° ₺33'28 0° Ⅲ 22° Ⅱ20'05	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41 1.39960 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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01 14913 Mar 12 04:01 14913 Mar 16 03:45 14913 Mar 24 16:06 14913 Apr 14 21:33 14913 Apr 14 21:33 14913 Apr 20 14:15	10° ₹19'35 14° ₹45'58 14° ₹34'01 29° ₹35'28 0° ₹ 29° ₹51'04 0° ≈ 10° ≈44'34 17° ≈34'41 16° ≈32'33 13° ≈43'38 12° ≈02'43 8° ≈12'29 7° ≈58'10 11° ≈37'47 12° ≈46'25 0° ₹ 10° ₹52'53 26° ₹54'20 27° ₹06'32 0° Υ 8° Υ26'31 8° Υ26'31 8° Υ58'45 15° Υ39'18 0° ₹ 0° ¶ 6° ¶ 14'02	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31 1.37687 AU
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 30 04:27 14912 Apr 01 03:42 14912 Apr 03 06:07 14912 Apr 03 06:07 14912 May 08 00:42 14912 May 08 00:42 14912 May 08 00:42 14912 May 19 01:48	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ₭ 0° ₭16'54 7° ₭21'02 5° ₭50'05 3° ₭12'37 1° ₭02'19 0° ₭46'37 30° ₨ 26°≈38'23 26°≈25'16 27°≈00'23 0° ₭ 0° ₭35'53 26° ₭22'30 0° Ŷ 13° Ŷ22'49 13° Ŷ29'02 17° Ŷ53'35 26° Ŷ35'55 0° ₭ 3° ₭33'28 0° Ⅲ 22° Ⅲ20'05 28° №55'3	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41 1.39960 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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 16 14:55 14913 Jan 18 23:23 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 06 05:30 14913 Mar 12 04:01 14913 Mar 12 04:01 14913 Mar 12 04:01 14913 Mar 16 03:45 14913 Mar 24 16:06 14913 Apr 14 21:33 14913 Apr 20 14:15 14913 Mar 20 16:04	10° ₹ 19'35 14° ₹ 45'58 14° ₹ 34'01 29° ₹ 35'28 0° ₹ 29° ₹ 51'04 0° ≈ 10° ≈ 44'34 17° ≈ 34'41 16° ≈ 32'33 12° ≈ 02'43 8° ≈ 12'29 7° ≈ 58'10 11° ≈ 37'47 12° ≈ 46'25 0° ₹ 10° ★ 52'53 26° ₹ 54'20 27° ₹ 06'32 0° ₹ 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31 8° ₹ 26'31	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31 1.37687 AU
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	14911 Dec 07 12:51 14911 Dec 07 11:18 14911 Dec 14 05:40 14911 Dec 21 13:27 14911 Dec 28 05:45 14912 Jan 11 06:27 14912 Jan 11 13:32 14912 Jan 25 12:25 14912 Jan 31 17:20 14912 Feb 05 02:48 14912 Feb 08 12:24 14912 Feb 08 12:24 14912 Feb 16 10:29 14912 Feb 18 10:42 14912 Feb 21 15:30 14912 Feb 26 07:27 14912 Feb 26 22:39 14912 Mar 14 00:07 14912 Mar 15 20:58 14912 Mar 22 20:52 14912 Mar 22 20:52 14912 Mar 30 04:27 14912 Apr 01 03:42 14912 Apr 03 06:07 14912 Apr 03 06:07 14912 Apr 20 07:02 14912 May 08 00:42	0°♂16'17 0°♂07'35 15°♂05'33 0°≈ 11°≈44'21 0° ₭ 0° ₭16'54 7° ₭21'02 5° ₭50'05 3° ₭12'37 1° ₭02'19 0° ₭46'37 30° ₨ 26°≈38'23 26°≈25'16 27°≈00'23 0° ₭ 0° ₭35'53 26° ₭22'30 0° Ŷ 13° Ŷ22'49 13° Ŷ29'02 17° Ŷ53'35 26° Ŷ35'55 0° ₭ 3° ₺33'28 0° Ⅲ 22° Ⅱ20'05	1°31'07 26°05'26 0.57834 AU -4°06'25 4°03'05 18°39'12 0°20'02 0°19'41 1.39960 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	14912 Nov 18 21:57 14912 Nov 20 22:30 14912 Nov 20 20:20 14912 Nov 27 16:03 14912 Nov 27 20:35 14912 Dec 14 02:41 14912 Dec 14 05:09 14912 Dec 23 03:08 14913 Jan 05 20:02 14913 Jan 11 03:32 14913 Jan 16 14:55 14913 Jan 19 07:36 14913 Jan 27 13:44 14913 Jan 29 21:00 14913 Feb 07 12:56 14913 Feb 08 19:05 14913 Feb 20 13:39 14913 Feb 20 03:25 14913 Mar 06 03:01 14913 Mar 06 05:30 14913 Mar 07 17:04 14913 Mar 12 04:01 14913 Mar 12 04:01 14913 Mar 16 03:45 14913 Mar 24 16:06 14913 Apr 14 21:33 14913 Apr 14 21:33 14913 Apr 20 14:15	10° ₹19'35 14° ₹45'58 14° ₹34'01 29° ₹35'28 0° ₹ 29° ₹51'04 0° ≈ 10° ≈44'34 17° ≈34'41 16° ≈32'33 13° ≈43'38 12° ≈02'43 8° ≈12'29 7° ≈58'10 11° ≈37'47 12° ≈46'25 0° ₹ 10° ₹52'53 26° ₹54'20 27° ₹06'32 0° Υ 8° Υ26'31 8° Υ26'31 8° Υ58'45 15° Υ39'18 0° ₹ 0° ¶ 6° ¶ 14'02	1°17'45 1°18'24 24°35'59 0.56013 AU -5°21'12 5°18'48 19°37'34 0°48'45 0°48'31 1.37687 AU

	1401234 12 20 46	50 T 5711 2	0.60001.411	i m at tire	14014 4 26 10 16	200 42 6140	0.66000 111
min. Earth dist.	14913 May 12 20:46	5° ∏ 57'13	0.68081 AU	min. Earth dist.	14914 Apr 26 10:16	20° 8 36'48	0.66909 AU
inferior conj	14913 May 14 03:18	4° Ⅱ 17'36	2°10'01	inferior conj	14914 Apr 28 05:37	18° 8 24'15	1°28'32
minimum elong	14913 May 14 01:09		2°08'34	minimum elong	14914 Apr 28 03:41	18° 8 30'09	1°27'12
	14913 May 17 17:28	30° ₹ 8		morning rise	14914 May 04 00:30	12° 8 41'15	
morning rise	14913 May 19 14:38	28° 8 23'41		direct	14914 May 07 04:15	11° 8 45'05	
direct	14913 May 23 05:09	27° 8 09'05		morning max el	14914 May 13 16:30	15° 8 12'39	18°30'02
	14913 May 29 04:05	Π \circ 0			14914 May 24 19:20	Π $\circ 0$	
morning max el	14913 May 30 05:52	0° Ⅱ 59'45	19°17'14	desc. node	14914 May 26 02:21	1° Ⅱ 58'57	
desc. node	14913 Jun 08 05:26	12° Ⅱ 13′22		morning set	14914 Jun 03 11:59	15° Ⅱ 08'14	
greatest brilliancy	14913 Jun 11 23:24	17° Ⅱ 40′35	-0.7m		14914 Jun 12 23:16	0 \circ \odot	
	14913 Jun 20 03:02	0 \circ \odot					
morning set	14913 Jun 23 16:18	5° 5 27'09		superior conj	14914 Jun 19 09:18	10° © 01'07	-2°10'32
max. Earth dist.	14913 Jul 06 13:38	25° 5 28'02	1.45360 AU	minimum elong	14914 Jun 19 04:53	9° 5 43'52	2°11'24
	14913 Jul 09 10:39	$0^{\circ}\Omega$		max. Earth dist.	14914 Jun 19 08:56	9° © 59'40	1.45908 AU
					14914 Jul 02 03:35	$0^{\circ}\Omega$	
superior conj	14913 Jul 09 23:34	0° Ω 51'10	-2°12'03	evening rise	14914 Jul 05 03:58	4° Ω 45'23	
minimum elong	14913 Jul 10 02:54	1° Ω 04'19		greatest brilliancy	14914 Jul 13 17:07	18° Ω 12'29	-0.8m
evening rise	14913 Jul 24 11:05	24°Ω16'44		asc. node	14914 Jul 20 05:48	28° Ω 01'43	
o vonning rise	14913 Jul 27 22:21	0° m)		use. noue	14914 Jul 21 15:41	0° m)	
asc. node	14913 Aug 02 09:05	8° m ₂ 51'52		evening max el	14914 Jul 26 20:21	-•	18°45'34
evening max el	14913 Aug 12 08:12	22° m/30'25	18°15'10	retrograde	14914 Aug 02 11:18	9° m ₂ 51'12	10 43 34
retrograde	14913 Aug 18 16:55	25° m 52'50	10 13 10	evening set	14914 Aug 05 18:36	8° m) 48'35	
•	2			inferior conj	Č	-•	2°41'04
evening set	14913 Aug 21 15:10	25° Mp 06'12	2°04'57	3	14914 Aug 11 08:50 14914 Aug 11 10:51	3° Mp 07'31 3° Mp 01'13	2°40'07
inferior conj minimum elong	14913 Aug 27 14:18	19° Mp 39'49		minimum elong	=		
C	14913 Aug 27 16:42	19° My 32'55	2°04'00	min. Earth dist.	14914 Aug 13 04:48	0° m/50'35	0.66039 AU
min. Earth dist.	14913 Aug 30 00:14	16° Mp 54'32	0.64193 AU		14914 Aug 13 21:37	30°R Ω	
morning rise	14913 Sep 02 16:38	13° m 20'48		morning rise	14914 Aug 17 02:10	26° Ω 42'20	
desc. node	14913 Sep 04 02:50	12° m 20'29		desc. node	14914 Aug 22 00:19	24° Ω 10'47	
direct	14913 Sep 09 06:34	10° Mp 46'14		direct	14914 Aug 23 09:23	24° Ω 03'39	
morning max el	14913 Sep 23 00:40	18° m) 44'55	27°33'24		14914 Sep 03 14:40	0° m)	
	14913 Oct 02 13:26	0∘ ⊽		morning max el	14914 Sep 05 12:07	1° Mp 49'52	26°38'29
	14913 Oct 21 15:13	0°M₊			14914 Sep 26 16:37	0∘ ⊽	
morning set	14913 Oct 28 03:28	12°M20'07		morning set	14914 Oct 11 07:47	25° ≏ 18'53	
asc. node	14913 Oct 29 11:04	14°M57'54			14914 Oct 13 18:17	0° M	
max. Earth dist.	14913 Nov 01 19:48	21°M52'55	1.32656 AU	max. Earth dist.	14914 Oct 15 07:59	3°M05'29	1.34236 AU
				asc. node	14914 Oct 16 07:44	5° ™ 04'05	
superior conj	14913 Nov 05 04:17	29°M00'56	0°59'19				
minimum elong	14913 Nov 05 01:59	28°M48'33	0°59'45	superior conj	14914 Oct 20 03:54	12°M55'48	0°35'04
	14913 Nov 05 15:14	00.7					
	14913 NOV 03 13.14	0° ∡ ¹		minimum elong	14914 Oct 20 02:09	12°M46'38	0°35'22
evening rise	14913 Nov 03 13.14 14913 Nov 12 03:00	0° x ¹ 14° x ¹04'33		minimum elong evening rise	14914 Oct 20 02:09 14914 Oct 27 12:41	12°M46'38 28°M28'30	0°35'22
evening rise				_			0°35'22
evening rise desc. node	14913 Nov 12 03:00	14° ∡ °04'33		_	14914 Oct 27 12:41	28°M28'30	0°35'22
desc. node	14913 Nov 12 03:00 14913 Nov 20 00:23	14°☎04'33 0°♂	22°53'22	_	14914 Oct 27 12:41 14914 Oct 28 06:09	28°M28'30 0° √	
-	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44	14° メ 04'33 0°る 16°る52'10	22°53'22	evening rise	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50	28°M28'30 0°ダ 0°る	
desc. node evening max el	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57	14° メ 04'33 0°る 16°る52'10 20°る43'02	22°53'22	evening rise evening max el desc. node	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53	28°M28'30 0°メ 0°る 0°る51'07	
desc. node evening max el retrograde	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48	14° 🗷 04'33 0°る 16°る52'10 20°る43'02 27°る12'40	22°53'22 0.54802 AU	evening rise evening max el desc. node retrograde	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46	28°M28'30 0°ダ 0°ぢ 0°ぢ51'07 2°ぢ25'14	
desc. node evening max el retrograde evening set min. Earth dist.	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15	0.54802 AU	evening rise evening max el desc. node retrograde evening set	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50	28°M28'30 0°ズ 0°でる 0°でる51'07 2°でる25'14 6°でる45'28 6°でる27'51	21°15'35
desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08	14° 세04'33 0°중 16°중52'10 20°중43'02 27°중12'40 26°중37'11 23°중17'15 22°중39'43	0.54802 AU -5°59'15	evening rise evening max el desc. node retrograde evening set inferior conj	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46	28°M28'30 0°メ 0°る 0°る51'07 2°る25'14 6°る45'28 6°る27'51 2°る35'53	21°15'35 -5°39'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 39'43 22° で 37'31	0.54802 AU -5°59'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 09 08:04	28° 11.28'30 0° ₹ 0° ₹ 0° ₹51'07 2° ₹25'14 6° ₹45'28 6° ₹27'51 2° ₹35'53 2° ₹46'09	21°15'35 -5°39'15 5°37'09
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 39'43 22° で 37'31 18° で 50'56	0.54802 AU -5°59'15	evening rise evening max el desc. node retrograde evening set inferior conj	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 09 08:04 14914 Dec 10 03:27	28° 11.28'30 0° ₹ 0° ₹ 0° ₹551'07 2° ₹551'4 6° ₹45'28 6° ₹27'51 2° ₹35'53 2° ₹46'09 2° ₹18'48	21°15'35 -5°39'15
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 39'43 22° で 37'31 18° で 50'56 18° で 30'03	0.54802 AU -5°59'15 5°58'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 08:04 14914 Dec 10 03:27 14914 Dec 14 13:08	28° 11.28'30 0° ₹ 0° ₹ 0° ₹51'07 2° ₹25'14 6° ₹45'28 6° ₹27'51 2° ₹35'53 2° ₹46'09 2° ₹18'48 30° ₹₹	21°15'35 -5°39'15 5°37'09
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 39'43 22° で 37'31 18° で 50'56 18° で 30'03 24° で 01'30	0.54802 AU -5°59'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 09 08:04 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44	28°M28'30 0°ズ 0°で 0°で 0°で 2°で 45'14 6°で 45'28 6°で 27'51 2°で 35'53 2°で 46'09 2°で 18'48 30°Rズ 28°ズ 45'35	21°15'35 -5°39'15 5°37'09
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18	14° 🗷 04'33 0° で 16° で552'10 20° で43'02 27° で12'40 26° で37'11 23° で17'15 22° で39'43 22° で37'31 18° で50'56 18° で30'03 24° で01'30 27° で43'04	0.54802 AU -5°59'15 5°58'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21	28°肌28'30 0°メ 0°で 0°で 0°で 2°で 45'28 6°で 27'51 2°で 35'53 2°で 46'09 2°で 18'48 30°Rメ 28°メ 45'35 28°メ 45'35 28°メ 45'35	21°15'35 -5°39'15 5°37'09
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45	14° 🗷 04'33 0° で 16° で552'10 20° でる43'02 27° で12'40 26° で37'11 23° で17'15 22° で39'43 22° で37'31 18° で50'56 18° で30'03 24° で01'30 27° でる43'04 0° ※	0.54802 AU -5°59'15 5°58'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58	28°肌28'30 0°ズ 0°で 0°で 0°で 2°で 2525'14 6°で 45'28 6°で 27'51 2°で 335'53 2°で 46'09 2°で 18'48 30°Rズ 28°ズ 45'35 28°ズ 45'35	21°15'35 -5°39'15 5°37'09 0.54446 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48	14° 🗷 04'33 0° で 16° で552'10 20° でる43'02 27° で12'40 26° で37'11 23° で17'15 22° で39'43 22° で37'31 18° で50'56 18° で30'03 24° で01'30 27° で443'04 0° 無 25° ≈33'47	0.54802 AU -5°59'15 5°58'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28	28°肌28'30 0°ズ 0°で 0°で 0°で 2°で 2525'14 6°で 45'28 6°で 27'51 2°で 335'53 2°で 46'09 2°で 18'48 30°Rズ 28°ズ 45'35 28°ズ 11'20 0°で 4°で 25'16	21°15'35 -5°39'15 5°37'09 0.54446 AU
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45	14° 🗷 04'33 0° で 16° で552'10 20° でる43'02 27° で12'40 26° で37'11 23° で17'15 22° で39'43 22° で37'31 18° で50'56 18° で30'03 24° で01'30 27° でる43'04 0° ※	0.54802 AU -5°59'15 5°58'15	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 11 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35	28°肌28'30 0°% 0°で 0°で 2°で 2°で 4°で 2°で 35'53 2°で 36'09 2°で 38'% 28°% 30° 8% 28°% 311'20 0°で 4°で 25'16 14°で 558'27	21°15'35 -5°39'15 5°37'09 0.54446 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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 33'43 22° で 33'43 18° で 50'56 18° で 30'03 24° で 01'30 27° で 443'04 0° ※ 25° ※ 33'47 0° 光	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25	28° \(\textit{\Pi}\)28'30 0° \(\textit{\Pi}\) 0° \(\textit{\Pi}\) 0° \(\textit{\Pi}\)51'07 2° \(\textit{\Pi}\)25'14 6° \(\textit{\Pi}\)45'28 6° \(\textit{\Pi}\)27'51 2° \(\textit{\Pi}\)35'53 2° \(\textit{\Pi}\)46'09 2° \(\textit{\Pi}\)38' \(\textit{\Pi}\)45'35 28° \(\textit{\Pi}\)45'35 28° \(\textit{\Pi}\)45'35 28° \(\textit{\Pi}\)45'35 11'20 0° \(\textit{\Pi}\) 4° \(\textit{\Pi}\)25'16 14° \(\textit{\Pi}\)58'27 0° \(\textit{\Pi}\)	21°15'35 -5°39'15 5°37'09 0.54446 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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 39'43 22° で 37'31 18° で 50'56 18° で 30'03 24° で 01'30 27° で 43'04 0° ※ 25° ※ 33'47 0° 光	0.54802 AU -5°59'15 5°58'15 20°59'13	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 11 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35	28°肌28'30 0°% 0°で 0°で 2°で 2°で 4°で 2°で 35'53 2°で 36'09 2°で 38'% 28°% 30° 8% 28°% 311'20 0°で 4°で 25'16 14°で 558'27	21°15'35 -5°39'15 5°37'09 0.54446 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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 39'43 22° で 37'31 18° で 50'56 18° で 30'03 24° で 01'30 27° で 43'04 0° ※ 25° ※ 33'47 0° 光	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25 14915 Jan 25 22:56	28°M28'30 0°ズ 0°ろ51'07 2°云55'14 6°云45'28 6°云27'51 2°云35'53 2°云46'09 2°云18'48 30°Rズ 28°ズ45'35 28°ズ11'20 0°云 4°云25'16 14°云58'27 0°≈ 10°≈18'34	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37
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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 17 23:15 14914 Feb 22 20:00	14° 🗷 04'33 0° で 16° で 552'10 20° で 43'02 27° で 12'40 26° で 37'11 23° で 17'15 22° で 33'43 22° で 33'31 18° で 50'56 18° で 30'03 24° で 01'30 27° で 43'04 0° ※ 25° ※ 33'47 0° 米 10° 米 55'53 11° 米 09'05 20° 米 55'04	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 20 22:25 14915 Jan 25 22:56	28°M28'30 0°ズ 0°ろ 0°ろ51'07 2°ろ25'14 6°ろ45'28 6°ろ27'51 2°ろ35'53 2°ろ46'09 2°♂18'48 30°Rズ 28°ズ45'35 28°ズ11'20 0°♂ 4°ろ25'16 14°ろ58'27 0°≈ 10°≈18'34	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37
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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 17 23:15 14914 Feb 22 20:00 14914 Feb 26 18:57	14° 🗷 04'33 0° 丙 16° 丙52'10 20° 丙43'02 27° 丙12'40 26° 丙37'11 23° 丙17'15 22° 丙37'31 18° 丙50'56 18° 丙30'03 24° 丙01'30 27° 丙43'04 0° 無 25° 無33'47 0° 升 10° 升55'53 11° 升09'05 20° 升55'04 28° 升28'19	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 28 01:46 14914 Nov 28 01:46 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 20 22:25 14915 Jan 25 22:56 14915 Feb 01 22:29 14915 Feb 01 22:29	28°M28'30 0°ズ 0°で	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37
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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 22 20:00 14914 Feb 26 18:57 14914 Feb 27 00:33	14° 🗷 04'33 0° 丙 16° 丙52'10 20° 丙43'02 27° 丙12'40 26° 丙37'11 23° 丙17'15 22° 丙37'31 18° 丙50'56 18° 丙30'03 24° 丙01'30 27° 丙43'04 0° 無 25° 無33'47 0° 升 10° 升55'53 11° 升09'05 20° 升55'04 28° 升28'19 28° 升54'23	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 28 01:46 14914 Nov 28 01:46 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 11 13:08 14914 Dec 21 20:21 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 20 22:25 14915 Feb 01 22:29 14915 Feb 01 22:29 14915 Feb 02 00:27 14915 Feb 04 03:49	28° TL 28'30 0° ズ 0° で 0° で 0° で 551'07 2° で 525'14 6° で 45'28 6° で 27'51 2° で 35'53 2° で 46'09 2° で 18'48 30° R ズ 28° ズ 45'35 28° ズ 11'20 0° で 4° で 25'16 14° で 58'27 0° 窓 10° 窓 18'34 25° 窓 17'55 25° 窓 28'27 0° 米	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37 1°26'12 1°26'40
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	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 22 20:00 14914 Feb 26 18:57 14914 Feb 27 00:33 14914 Feb 27 14:45	14° 🗷 04'33 0° で 16° で552'10 20° でる43'02 27° で312'40 26° で37'11 23° で17'15 22° で33'43 22° で33'31 18° で50'56 18° で50'56 18° で30'03 24° で01'30 27° で43'04 0° ※ 25° ※33'47 0° ※ 10° 米55'53 11° 米09'05 20° 米55'04 28° 米28'19 28° 米54'23 0° ℃	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 11 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25 14915 Feb 01 22:29 14915 Feb 01 22:29 14915 Feb 02 00:27 14915 Feb 04 03:49 14915 Feb 05 11:25	28° TL 28'30 0° ズ 0° で 0° で 0° で 551'07 2° で 525'14 6° で 45'28 6° で 27'51 2° で 35'53 2° で 46'09 2° で 18'48 30° R ズ 28° ズ 45'35 28° ズ 45'35 28° ズ 11'20 0° で 4° で 25'16 14° で 58'27 0° ※ 10° ※ 18'34 25° ※ 17'55 25° ※ 28'27 0° 光 2° 光 44'25	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37
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 desc. node	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48 14914 Feb 17 20:41 14914 Feb 22 20:00 14914 Feb 26 18:57 14914 Feb 27 00:33 14914 Feb 27 14:45 14914 Mar 17 22:38	14° \$\times 04'33 0° \$\times 16° \$\times 52'10 20° \$\times 43'02 27° \$\times 12'40 26° \$\times 37'11 23° \$\times 17'15 22° \$\times 39'43 22° \$\times 37'31 18° \$\times 50'56 18° \$\times 30'03 24° \$\times 01'30 27° \$\times 43'04 0° \$\times 25° \$\times 33'47 0° \$\times 10° \$\times 55'53 11° \$\times 09'05 20° \$\times 55'04 28° \$\times 28' \$\times 54'23 0° \$\times 0'\$ 0° \$\times 0'\$	0.54802 AU -5°59'15 5°58'15 20°59'13 1°10'49 1°10'54 1.35542 AU	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 14 13:08 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25 14915 Feb 01 22:29 14915 Feb 01 22:29 14915 Feb 02 00:27 14915 Feb 04 03:49 14915 Feb 05 11:25 14915 Feb 10 00:12	28° TL 28'30 0° ズ 0° G 0° G 51'07 2° G 25'14 6° G 45'28 6° G 27'51 2° G 35'53 2° G 46'09 2° G 18'48 30° R ズ 28° ズ 45'35 28° ズ 11'20 0° G 4° G 25'16 14° G 58'27 0° ※ 10° ※ 18'34 25° ※ 28'27 0° ℋ 2° ℋ 44'25 11° ℋ 51'36	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37 1°26'12 1°26'40
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 22 20:00 14914 Feb 26 18:57 14914 Feb 27 00:33 14914 Feb 27 14:45 14914 Mar 17 22:38 14914 Apr 03 03:48	14° 🗷 04'33 0° 云 16° 云 52'10 20° 云 43'02 27° 云 12'40 26° 云 37'11 23° 云 17'15 22° 云 39'43 22° 云 37'31 18° 云 50'56 18° 云 30'03 24° 云 01'30 27° 云 43'04 0° ≈ 25° ≈ 33'47 0° 米 10° 光 55'53 11° 光 09'05 20° 光 55'04 28° 光 28'19 28° 光 54'23 0° Ƴ 0° 엉 20° 엉 03'13	0.54802 AU -5°59'15 5°58'15 20°59'13	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 14 13:08 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25 14915 Feb 01 22:29 14915 Feb 01 22:29 14915 Feb 02 00:27 14915 Feb 04 03:49 14915 Feb 05 11:25 14915 Feb 10 00:12 14915 Feb 10 00:12	28° TL 28'30 0° ズ 0° で 0° で 0° で 551'07 2° で 525'14 6° で 45'28 6° で 27'51 2° で 35'53 2° で 46'09 2° で 18'48 30° Rズ 28° ズ 45'35 28° ズ 11'20 0° で 4° で 525'16 14° で 558'27 0° ※ 10° ※ 18'34 25° ※ 28'27 0° 光 2° 光 44'25 11° 光 51'36 19° 光 13'06	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37 1°26'12 1°26'40
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 desc. node evening max el retrograde	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 11 11:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 22 20:00 14914 Feb 26 18:57 14914 Feb 27 14:45 14914 Feb 27 14:45 14914 Mar 17 22:38 14914 Apr 03 03:48 14914 Apr 16 01:25	14° 🗷 04'33 0° 云 16° 云 52'10 20° 云 43'02 27° 云 12'40 26° 云 37'11 23° 云 17'15 22° 云 39'43 22° 云 37'31 18° 云 50'56 18° 云 30'03 24° 云 01'30 27° 云 43'04 0° ≈ 25° ≈ 33'47 0° 光 10° 光 55'53 11° 光 09'05 20° 光 55'04 28° 光 54'23 0° Ƴ 0° 엉 20° 엉 03'13 27° 엉 24'26	0.54802 AU -5°59'15 5°58'15 20°59'13 1°10'49 1°10'54 1.35542 AU	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 11 13:08 14914 Dec 17 20:44 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25 14915 Feb 01 22:29 14915 Feb 01 00:12 14915 Feb 04 03:49 14915 Feb 10 00:12 14915 Feb 10 00:12 14915 Feb 11 21:06 14915 Feb 19 23:31	28° TL 28'30 0° ズ 0° で 0° で 551'07 2° で 551'07 2° で 551'28 6° で 527'51 2° で 35'53 2° で 46'09 2° で 18'48 30° R ズ 28° ズ 45'35 28° ズ 11'20 0° で 4° で 525'16 14° で 558'27 0° ※ 10° ※ 18'34 25° ※ 17'55 25° ※ 28'27 0° 米 2° 米 44'25 11° 米 51'36 19° 升 13'06 0° 个	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37 1°26'12 1°26'40
desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	14913 Nov 12 03:00 14913 Nov 20 00:23 14913 Nov 30 23:44 14913 Dec 04 12:40 14913 Dec 17 14:57 14913 Dec 21 15:48 14913 Dec 28 21:46 14913 Dec 30 00:08 14913 Dec 30 01:41 14914 Jan 07 12:56 14914 Jan 10 12:58 14914 Jan 22 01:08 14914 Jan 25 10:18 14914 Jan 27 04:45 14914 Feb 10 11:48 14914 Feb 12 14:48 14914 Feb 17 20:41 14914 Feb 17 20:41 14914 Feb 22 20:00 14914 Feb 26 18:57 14914 Feb 27 00:33 14914 Feb 27 14:45 14914 Mar 17 22:38 14914 Apr 03 03:48	14° 🗷 04'33 0° 云 16° 云 52'10 20° 云 43'02 27° 云 12'40 26° 云 37'11 23° 云 17'15 22° 云 39'43 22° 云 37'31 18° 云 50'56 18° 云 30'03 24° 云 01'30 27° 云 43'04 0° ≈ 25° ≈ 33'47 0° 米 10° 光 55'53 11° 光 09'05 20° 光 55'04 28° 光 28'19 28° 光 54'23 0° Ƴ 0° 엉 20° 엉 03'13	0.54802 AU -5°59'15 5°58'15 20°59'13 1°10'49 1°10'54 1.35542 AU	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	14914 Oct 27 12:41 14914 Oct 28 06:09 14914 Nov 15 07:50 14914 Nov 16 03:53 14914 Nov 17 20:52 14914 Nov 28 01:46 14914 Nov 30 19:50 14914 Dec 09 15:21 14914 Dec 10 03:27 14914 Dec 14 13:08 14914 Dec 14 13:08 14914 Dec 21 20:21 14914 Dec 28 17:58 14915 Jan 03 17:28 14915 Jan 12 07:35 14915 Jan 20 22:25 14915 Feb 01 22:29 14915 Feb 01 22:29 14915 Feb 02 00:27 14915 Feb 04 03:49 14915 Feb 05 11:25 14915 Feb 10 00:12 14915 Feb 10 00:12	28° TL 28'30 0° ズ 0° で 0° で 0° で 551'07 2° で 525'14 6° で 45'28 6° で 27'51 2° で 35'53 2° で 46'09 2° で 18'48 30° Rズ 28° ズ 45'35 28° ズ 11'20 0° で 4° で 525'16 14° で 558'27 0° ※ 10° ※ 18'34 25° ※ 28'27 0° 光 2° 光 44'25 11° 光 51'36 19° 光 13'06	21°15'35 -5°39'15 5°37'09 0.54446 AU 22°40'37 1°26'12 1°26'40 1.33722 AU

retrograde	14915 Mar 30 04:57	11° 8 09'54			14916 Feb 13 09:50	0° Υ	
evening set	14915 Apr 05 19:39	8° 8 38'34		evening max el	14916 Feb 27 05:44	16° Υ 53'16	27°33'47
min. Earth dist.	14915 Apr 09 17:15	4° 8 55'40	0.65332 AU	retrograde	14916 Mar 12 01:28	24° Υ 21'54	21 3341
asc. node	14915 Apr 10 04:15	4° 8 25'19	0.03332 AU	evening set	14916 Mar 18 21:12	24 1 21 34 21° Y 58'12	
	14915 Apr 10 04:13	2° 8 19'06	0°34'57	min. Earth dist.		18° Υ 44'17	0.62410.411
inferior conj	14915 Apr 12 01:00 14915 Apr 12 00:04	2° 8 21'44	0°34'08	inferior conj	14916 Mar 22 15:55	18° Y 44°17 15° Y 55'27	0.63419 AU
minimum elong	1	_	0-34-08	,	14916 Mar 25 10:42		
	14915 Apr 14 04:16	30° ₹ Υ		minimum elong	14916 Mar 25 11:42	15° Y 52'54 14° Y 18'51	0°31'05
morning rise	14915 Apr 18 06:10	26° Y 48'44		asc. node	14916 Mar 27 01:41		
direct	14915 Apr 21 00:17	26° Y ′08'12	15050100	morning rise	14916 Apr 01 04:42	10° Y 40′06	
morning max el	14915 Apr 27 07:59		17°59'39	direct	14916 Apr 03 14:33	10° Υ 11'49	150460
	14915 Apr 27 21:50	0°8		morning max el	14916 Apr 10 01:39	13° Y 29'49	17°46'38
desc. node	14915 May 12 23:10	22° 8 04'08			14916 Apr 21 13:52	0°8	
morning set	14915 May 15 10:47	26° 8 08'11		morning set	14916 Apr 26 12:04	8° 8 24'19	
	14915 May 17 19:30	Π \circ 0		desc. node	14916 Apr 28 19:53	12° 8 23'21	
superior conj	14915 May 29 21:18	19° Ⅱ 23'26	-10/10/36	superior conj	14916 May 09 02:41	29° 8 36'42	-1°15'20
minimum elong	14915 May 29 12:30	18° Ⅱ 48'43		minimum elong	14916 May 08 19:25	29° 8 06'58	
max. Earth dist.	14915 Jun 02 04:51	24° II 36'05	1.45711 AU	minimum ciong	14916 May 09 08:24	29 С 00 38	1 1321
max. Earth dist.	14915 Jun 05 15:54	24 ப 3603	1.43/11 AU	max. Earth dist.	•	0 <u>п</u> 9° П 04'04	1 44900 411
	14915 Jun 05 15:54 14915 Jun 14 23:18				14916 May 14 23:33	9°Щ04°04 23°Щ47'21	1.44800 AU
evening rise		14°923'06		evening rise	14916 May 24 10:07		
	14915 Jun 25 05:08	0°N	^ =		14916 May 28 12:02	0°©	
greatest brilliancy	14915 Jun 28 10:35	4° Ω 48'07	-0.7m		14916 Jun 18 16:19	0°N	2002.412
asc. node	14915 Jul 07 02:35	16° Ω 41'05		evening max el	14916 Jun 22 05:34	3° Ω 56′23	20°34'13
evening max el	14915 Jul 10 03:51	20° Ω 04'41	19°32'34	asc. node	14916 Jun 22 23:26	4° Ω 39'49	
retrograde	14915 Jul 17 09:05	24° Ω 07'09		retrograde	14916 Jun 30 08:00	8° Ω 35'24	
evening set	14915 Jul 21 02:04	22° Ω 47′23		evening set	14916 Jul 04 11:23	6° Ω 58'10	
inferior conj	14915 Jul 26 10:44	16° Ω 53'10	3°01'59	inferior conj	14916 Jul 09 17:24	0° Ω 52'00	3°10'01
minimum elong	14915 Jul 26 11:56	16° Ω 49'13	3°01'05	minimum elong	14916 Jul 09 17:37	0° Ω 51'17	3°09'06
min. Earth dist.	14915 Jul 27 16:30	15° Ω 14'31	0.67486 AU		14916 Jul 10 08:31	30° ₹ ∽	
morning rise	14915 Jul 31 21:15	10° Ω 27'49		min. Earth dist.	14916 Jul 10 09:18	29° © 57'18	0.68480 AU
direct	14915 Aug 06 18:46	7° Ω 53'41		morning rise	14916 Jul 14 23:33	24° © 30'22	
desc. node	14915 Aug 08 21:46	8° Ω 11′00		direct	14916 Jul 20 09:29	22° © 08'00	
morning max el	14915 Aug 18 23:03	15° Ω 11'22	25°22'33	desc. node	14916 Jul 25 19:10	23° © 59'44	
	14915 Aug 31 03:17	0° m y		morning max el	14916 Jul 31 09:32	28° 5 42'32	23°55'22
	14915 Sep 19 13:12	0∘ ত			14916 Aug 01 15:19	$0^{\circ}\Omega$	
morning set	14915 Sep 23 20:59	7° £ 36′03			14916 Aug 23 20:43	0° ™	
max. Earth dist.	14915 Sep 27 10:41	14° ≙ 09'18	1.36279 AU	morning set	14916 Sep 04 14:42	19° m 01'06	
asc. node	14915 Oct 03 04:20	25° ≏ 12'48		max. Earth dist.	14916 Sep 08 08:56	25° m 32'49	1.38615 AU
					14916 Sep 10 20:42	0∘ ⊽	
superior conj	14915 Oct 03 18:30	26° ≏ 23'16	0°05'27				
minimum elong	14915 Oct 03 18:09	26° ₽ 21'30	0°05'44	superior conj	14916 Sep 15 20:31	9° ≏ 14'40	-0°28'32
behind sun begin	14915 Oct 03 12:11	25° ≏ 51'49		minimum elong	14916 Sep 15 22:33	9° ≏ 24'14	0°28'07
behind sun end	14915 Oct 04 00:07	26° ≙ 51'16		asc. node	14916 Sep 19 00:53	15° ≏ 20'24	
	14915 Oct 05 13:43	0° M .		evening rise	14916 Sep 24 19:09	26° ≏ 37'32	
evening rise	14915 Oct 11 18:55	12° M .41'41			14916 Sep 26 12:32	0° M	
	14915 Oct 20 19:59	0° ∡ ¹		evening max el	14916 Oct 11 02:57	23°ML18'12	18°56'37
evening max el	14915 Oct 29 08:23	11° ∡ ³39'58	19°55'11	retrograde	14916 Oct 19 20:07	27° M 41'21	
desc. node	14915 Nov 04 18:06	16° ∡ ¹04'44		evening set	14916 Oct 21 17:15	27° M 29'54	
retrograde	14915 Nov 08 15:25	16° ∡ ¹47'49		desc. node	14916 Oct 21 15:27	27° M 30'47	
evening set	14915 Nov 10 15:55	16° ∡ ³36'53		inferior conj	14916 Oct 30 00:39	23°M12'25	-2°39'36
inferior conj	14915 Nov 19 11:31	12° ∡ ³37′21	-4°23'36	minimum elong	14916 Oct 29 18:01	23°M24'06	2°36'19
minimum elong	14915 Nov 19 01:30	12° ∡ 52'36	4°19'42	min. Earth dist.	14916 Nov 01 22:50	21°M09'38	0.56460 AU
min. Earth dist.	14915 Nov 21 10:58	11° ∡ °24'58	0.55036 AU	morning rise	14916 Nov 06 15:53	18° M 26'51	
morning rise	14915 Nov 27 09:46	8° ∡ ¹26'14		direct	14916 Nov 12 10:18	17° M 08'13	
direct	14915 Dec 02 09:02	7° ∡ ³32′07		morning max el	14916 Nov 26 13:54	24° M 24'22	26°09'50
morning max el	14915 Dec 16 02:39	14° ∡ ′21′08	24°30'13		14916 Dec 01 17:11	0° ⊼ ¹	
	14915 Dec 28 07:15	0°ಕ		asc. node	14916 Dec 16 01:52	21° ₹ ′56′28	
asc. node	14915 Dec 30 04:46	3°る07'37			14916 Dec 20 06:44	0°る。	
morning set	14916 Jan 10 10:54	25° පි 01'52		morning set	14916 Dec 24 21:53	9° る 38'03	
	14916 Jan 12 17:50	0° ≈			1.710 DOC 27 21.03	, 0,000	
				superior conj	14916 Dec 31 16:01	24° る 32'39	1°37'58
superior conj	14916 Jan 17 05:41	9° ≈ 52'38	1°35'10	minimum elong	14916 Dec 31 15:58	24° る 32'24	1°38'55
minimum elong	14916 Jan 17 06:43	9° ≈ 58'15	1°35'57	max. Earth dist.	14917 Jan 01 15:56	26° පි 45'42	1.31458 AU
max. Earth dist.	14916 Jan 19 10:41	14° ≈ 41′03	1.32342 AU		14917 Jan 03 03:04	0° ≈	
evening rise	14916 Jan 24 16:16	25° ≈ 41'01		evening rise	14917 Jan 07 16:16	9° ≈ 48'22	
	14916 Jan 26 20:00	0°) €		desc. node	14917 Jan 17 14:22	29° ≈ 01'55	
desc. node	14916 Jan 31 17:42	9°) 17′54			14917 Jan 18 03:34	0° ∀	

evening max el	14917 Feb 08 14:27	29° ∺ 28'49	27°26'40	desc. node	14918 Jan 04 11:09	18° ≈ 17'21	
	14917 Feb 09 03:45	0 ° Υ			14918 Jan 12 02:25	0°)	
retrograde	14917 Feb 22 13:41	6° Ƴ 49'49		evening max el	14918 Jan 21 16:43	11° 米 15′25	26°44'41
evening set	14917 Mar 01 09:35	4° Υ 41'04		retrograde	14918 Feb 04 16:19	18° ¥ 26′22	
min. Earth dist.	14917 Mar 05 04:31	1° Y 50'03	0.61274 AU	evening set	14918 Feb 11 05:26	16° ∺ 39'33	
	14917 Mar 07 06:08	30° ₹		min. Earth dist.	14918 Feb 15 06:31		0.59058 AU
inferior conj	14917 Mar 08 07:18	29° 米 03′12		inferior conj	14918 Feb 18 11:07	11°) 32'47	
minimum elong	14917 Mar 08 11:14		1°48'01	minimum elong	14918 Feb 18 18:25	11°) 18′34	3°13'20
asc. node	14917 Mar 13 23:09	24°) 47'45		morning rise	14918 Feb 26 10:42	6° ¥ 56'35	
morning rise	14917 Mar 15 16:01	24°) €05'59		direct	14918 Feb 28 10:43	6°) 42′09	
direct	14917 Mar 17 19:29	23°) (46′22		asc. node	14918 Feb 28 20:37	6°) 42'47	
morning max el	14917 Mar 24 18:17	27°) €16'08	17°51'37	morning max el	14918 Mar 08 06:19	10°) €34'26	18°15'51
	14917 Mar 27 04:53	0°Υ			14918 Mar 21 00:12	0°Υ 5° 00 21106	
morning set	14917 Apr 09 10:01	21° Y 37'47		morning set	14918 Mar 23 22:48	5° Ƴ 31'06	
JJ.	14917 Apr 14 01:54	0°8			14010 4 02 11.05	23° Y 14'51	0900141
desc. node	14917 Apr 15 16:30	2° 8 51'12		superior conj	14918 Apr 02 11:05	23° Y 14'51	0°00'41 0°00'23
	14017 4 20 07 40	100055113	0027127	minimum elong	14918 Apr 02 11:07	23°°° 15'01 22°° 41'22	0°00'23
superior conj	14917 Apr 20 07:40	10° 8 55'12		behind sun begin	14918 Apr 02 03:42	23° Y '41'22	
minimum elong max. Earth dist.	14917 Apr 20 04:19 14917 Apr 27 14:54	23° 8 08'00		behind sun end desc. node	14918 Apr 02 18:33	23° Y 23'51	
max. Earm dist.	14917 Apr 27 14.34 14917 May 01 21:16	23 Ο 08 00	1.43233 AU	desc. node	14918 Apr 02 13:04 14918 Apr 06 06:02	0° 8	
evening rise	14917 May 04 04:36	3° ∏ 38'12		max. Earth dist.	14918 Apr 10 01:23	6° と 33'50	1.41241 AU
evening rise	14917 May 04 04.36 14917 May 21 21:25	о°©		evening rise	14918 Apr 10 01.23	14° 8 19'20	1.41241 AU
evening max el	14917 May 21 21:23	17° © 48'15	21°47'26	evening rise	14918 Apr 24 17:27	0°Ⅱ	
asc. node	14917 Jun 09 20:26	21°5944'34	21 4/20		14918 May 17 02:30	0° ©	
retrograde	14917 Jun 14 06:18	23° © 10'39		evening max el	14918 May 18 17:18	1° 9 540'31	23°07'31
evening set	14917 Jun 18 20:42	21°9516'40		asc. node	14918 May 27 17:33	7°938'45	23 07 31
inferior conj	14917 Jun 24 02:38	15°900'01	3°06'44	retrograde	14918 May 29 02:33	7°947'07	
minimum elong	14917 Jun 24 01:54	15°902'36	3°05'42	evening set	14918 Jun 03 04:22	5° © 38'11	
min. Earth dist.	14917 Jun 24 05:10	14°951'12	0.68987 AU	7 · · · · · · · · · · · · · · · · · · ·	14918 Jun 07 22:56	30°R Ⅱ	
morning rise	14917 Jun 29 06:54	8°\$44'22		min. Earth dist.	14918 Jun 08 02:00	29° ∏ 49'24	0.69005 AU
direct	14917 Jul 04 04:23	6°938'51		inferior conj	14918 Jun 08 12:27	29° Ⅱ 13'15	2°52'58
desc. node	14917 Jul 12 16:29	11° © 11'41		minimum elong	14918 Jun 08 10:55	29° Ⅱ 18'33	2°51'44
morning max el	14917 Jul 13 21:41	12° © 22'20	22°26'18	morning rise	14918 Jun 13 17:24	23° II 05'00	
C	14917 Jul 27 23:29	$0^{\circ}\Omega$		direct	14918 Jun 18 02:21	21° Ⅱ 18'59	
morning set	14917 Aug 16 09:07	29° Ω 25'47		morning max el	14918 Jun 26 14:23	26° Ⅱ 12'06	21°03'08
	14917 Aug 16 17:32	0° ™		desc. node	14918 Jun 29 13:42	29° Ⅲ 25′04	
max. Earth dist.	14917 Aug 21 09:31	7° m 43'14	1.40978 AU		14918 Jun 30 01:38	0 \circ \mathfrak{s}	
					14918 Jul 21 10:07	$0^{\circ}\Omega$	
superior conj	14917 Aug 29 05:47	21°M 20'36	-1°04'31	morning set	14918 Jul 27 03:47	8° Ω 50'07	
minimum elong	14917 Aug 29 10:49	21°Mp43'09	1°04'01	max. Earth dist.	14918 Aug 03 15:49	20° Ω 46′17	1.43091 AU
	14917 Sep 02 23:55	0∘ ⊽			14918 Aug 09 06:02	0° ™	
asc. node	14917 Sep 05 21:26	5° ഫ 23'35					
evening rise	14917 Sep 08 10:07	10° ഫ 08'10		superior conj	14918 Aug 10 17:53	2°m/31'08	
	14917 Sep 19 18:46	0°M₊		minimum elong	14918 Aug 11 01:17	3°M)02'26	1°38'11
evening max el	14917 Sep 24 08:19		18°19'47	evening rise	14918 Aug 22 11:33	23°m/02'11	
retrograde	14917 Oct 01 20:23	9° ™ 29'55		asc. node	14918 Aug 23 18:01	25° m 18'10	
evening set	14917 Oct 03 21:48	9°M.13'22			14918 Aug 26 09:28	0∘ ⊽	10002112
desc. node	14917 Oct 08 12:54	6°M52'14	00.5 (10.0	evening max el	14918 Sep 07 20:14		18°03'12
inferior conj	14917 Oct 11 11:36	4°M34'39		retrograde	14918 Sep 14 13:46	22° Ω 06'01	
minimum elong	14917 Oct 11 09:29	4°M39'01	0°55'01	evening set	14918 Sep 16 22:32	21° Ω 40'23	0020121
min. Earth dist.	14917 Oct 14 18:01	1°M54'17	0.58455 AU	inferior conj	14918 Sep 23 18:59	16° Ω 41'36	0°30'21
	14917 Oct 17 09:32	30° ₹ Ω		minimum elong	14918 Sep 23 19:56	16° ♀ 39'22	0°30'11
morning rise	14917 Oct 18 17:43	29° £ 12'06		desc. node	14918 Sep 25 10:24	15° Ω 07'12	0.60725 ATT
direct	14917 Oct 25 01:27 14917 Nov 02 00:25	27° £ 26'44 0° I L		min. Earth dist. morning rise	14918 Sep 26 22:25 14918 Sep 30 14:17	13° Ω 43'07 10° Ω 49'08	0.60725 AU
morning max el	14917 Nov 02 00.23 14917 Nov 08 08:46	5°M04'54	27°21'52	direct	14918 Oct 07 05:14	8° £ 38'53	
morning max ci	14917 Nov 08 08:40	0° √	21 21 J2	morning max el	14918 Oct 21 11:22	6 ⊆ 36 33	27°56'18
asc. node	14917 Nov 20 17:33 14917 Dec 02 22:52	11° х 14'37		morning max ci	14918 Oct 21 11:22 14918 Nov 01 14:03	0°M	27 30 10
morning set	14917 Dec 02 22:32 14917 Dec 09 06:10	24°×703'01			14918 Nov 19 08:58	0° ⊼ ¹	
morning sot	14917 Dec 12 00:07	24×0301		asc. node	14918 Nov 19 19:46	0° ∡ ¹53'18	
	21717 DOC 12 00.07	ÿ O		morning set	14918 Nov 23 09:48	8° × 11'00	
superior conj	14917 Dec 16 03:34	9° る 12'52	1°34'47	max. Earth dist.	14918 Nov 29 06:53	20° ∡ 52′21	1.31258 AU
minimum elong	14917 Dec 16 02:30	9° ප 06'56	1°35'43		.,	1	
max. Earth dist.	14917 Dec 16 00:01	8° る 53'00	1.31090 AU	superior conj	14918 Nov 30 14:24	23° х 47′16	1°25'41
evening rise	14917 Dec 22 21:53	24° る 08'22		minimum elong	14918 Nov 30 12:33		1°26'28
5	14917 Dec 25 16:52	0° ≈		6	14918 Dec 03 09:19	0°ਰ	·

evening rise	14918 Dec 07 07:01	8° ප 35'06			14919 Nov 25 00:28	0°ಕ	
C	14918 Dec 18 03:52	0° ≈		desc. node	14919 Dec 09 05:01	24° る 33'43	
desc. node	14918 Dec 22 08:02	6°≈52'51			14919 Dec 13 15:16	0°≈	
evening max el	14919 Jan 03 10:35	22° ≈ 08'40	25°30'06	evening max el	14919 Dec 15 21:31	2° ≈ 19'39	23°52'56
retrograde	14919 Jan 17 07:51	29° ≈ 08'10		retrograde	14919 Dec 29 10:08	9° ≈ 02'37	
evening set	14919 Jan 23 04:55	27° ≈ 49′06		evening set	14920 Jan 03 05:04	8° ≈ 12'47	
min. Earth dist.	14919 Jan 27 23:09	25° ≈ 09'03	0.56997 AU	min. Earth dist.	14920 Jan 09 08:52	5° ≈ 12'48	0.55395 AU
inferior conj	14919 Jan 30 18:54	23° ≈ 14'56	-4°40'56	inferior conj	14920 Jan 11 05:52	4°≈05'42	-5°43'30
minimum elong	14919 Jan 31 04:04	22° ≈ 59'29	4°37'48	minimum elong	14920 Jan 11 11:59	3° ≈ 56'33	5°41'50
morning rise	14919 Feb 08 06:00	19° ≈ 00'36		morning rise	14920 Jan 19 20:37	0° ≈ 09'43	
direct	14919 Feb 10 07:55	18° ≈ 47'39			14920 Jan 20 19:08	30°Rる	
asc. node	14919 Feb 15 18:04	20° ≈ 21'53		direct	14920 Jan 22 09:37	29° る 53'26	
morning max el	14919 Feb 19 09:43	23°≈13'14	19°01'15		14920 Jan 23 23:28	0° ≈	
	14919 Feb 24 20:51	0° ∀		morning max el	14920 Feb 02 00:16	5° ≈ 00'30	20°09'35
morning set	14919 Mar 07 21:51	19° ¥ 50'55		asc. node	14920 Feb 02 15:28	5°≈38'16	
	14919 Mar 13 01:25	0° Υ ′			14920 Feb 17 22:58	0° ∀	
	1401034 16 00 40	co 00 000150	0000150	morning set	14920 Feb 20 03:37	4°) €26'24	
superior conj	14919 Mar 16 08:48	6°Υ23'58	0°32'59		14000 7 1 07 00 16	2001/00117	0050155
minimum elong	14919 Mar 16 10:46	6° Υ 33'24 13° Υ 57'48	0°32'39	superior conj	14920 Feb 27 20:16	20°) €09'17	0°58'55
desc. node	14919 Mar 20 09:37	13°° Y ′5′′48	1 2000 (111	minimum elong	14920 Feb 27 22:53	20° ¥ 22'27 0° Ƴ	0°58'48
max. Earth dist.	14919 Mar 23 07:56		1.38986 AU	T at the	14920 Mar 03 20:54		1 26740 ATT
evening rise	14919 Mar 27 03:27	25° Y 56'11		max. Earth dist.	14920 Mar 04 14:39	1°Υ24'11	1.36740 AU
	14919 Mar 29 13:04	0° B		desc. node	14920 Mar 06 06:07	4°Υ28'58	
avanina may al	14919 Apr 18 08:14	0° Ц 15° Ц 34'24	24°28'23	evening rise	14920 Mar 08 08:59 14920 Mar 21 07:19	8° Y 21'47 0° と	
evening max el	14919 May 01 07:03 14919 May 12 19:28	13 Д 34 24 22° Д 18'51	24 28 23	arranina marral		29° 8 27'39	25942156
retrograde asc. node	14919 May 14 14:45	22° I 1831		evening max el	14920 Apr 12 20:38 14920 Apr 13 09:59	29 O 27 39 0° Ⅱ	23 42 30
	14919 May 14 14.43	19° Ц 57'55		retrograde	14920 Apr 13 09:39 14920 Apr 25 07:49	6° П 38'35	
evening set min. Earth dist.	14919 May 22 21:46	19 Ⅱ 3733	0.68547 AU	retrograde asc. node	14920 Apr 23 07:49 14920 Apr 30 12:03	0 П 3833 4° П 49'01	
inferior conj	14919 May 23 20:57	13° Ⅱ 27'57	2°28'49	evening set	14920 May 01 08:13	4° ∏ 09'35	
minimum elong	14919 May 23 18:54	13° II 34'50	2°27'25	evening set	14920 May 05 05:42	30°R B	
morning rise	14919 May 29 05:10	7° Ⅱ 28'16	2 27 25	min. Earth dist.	14920 May 05 14:12	29° 8 33'27	0.67634 AU
direct	14919 Jun 02 02:08	6° I 102'25		inferior conj	14920 May 07 02:07	27° 8 39'05	1°53'53
morning max el	14919 Jun 09 13:50	10° Ⅱ 12'51	19°51'38	minimum elong	14920 May 06 23:59	27° 8 45'54	1°52'27
desc. node	14919 Jun 16 10:47	18° Ⅲ 23'32	17 3130	morning rise	14920 May 12 16:18	21° 8 49'19	1 3227
acse. noue	14919 Jun 24 15:00	0°9		direct	14920 May 16 02:07	20° 8 42'45	
morning set	14919 Jul 06 07:33	17° © 38'58		morning max el	14920 May 22 20:34	24° 8 22'12	18°55'02
3	14919 Jul 14 06:35	$0^{\circ}\Omega$			14920 May 27 16:48	0°II	
max. Earth dist.	14919 Jul 17 04:17	4° Ω 34'41	1.44715 AU	desc. node	14920 Jun 02 07:45	7° ∏ 54'27	
				greatest brilliancy	14920 Jun 05 06:40	12° Ⅱ 19'48	-0.8m
superior conj	14919 Jul 22 06:27	12° Ω 43′08	-2°04'01	morning set	14920 Jun 14 15:47	26° Ⅱ 45'19	
minimum elong	14919 Jul 22 12:50	13° Ω 08'53	2°04'27		14920 Jun 16 18:00	0 \circ \odot	
	14919 Aug 01 17:42	0° m)		max. Earth dist.	14920 Jun 28 21:50	18° © 55'24	1.45690 AU
evening rise	14919 Aug 04 18:22	5° Mp 07'09					
asc. node	14919 Aug 10 14:39	15° m 00'08		superior conj	14920 Jun 30 22:41	22° © 06'39	-2°13'55
	14919 Aug 20 14:32	0∘ ⊽		minimum elong	14920 Jun 30 22:48	22° © 07'07	2°14'53
evening max el	14919 Aug 22 10:50	2° ♀ 00'54	18°05'35		14920 Jul 05 22:51	0 $^{\circ}$ Ω	
retrograde	14919 Aug 28 20:02	5° ≏ 21'14		evening rise	14920 Jul 16 01:34	16° Ω 11′08	
evening set	14919 Aug 31 13:13	4° ₽ 43'05			14920 Jul 24 15:35	0° ™	
	14919 Sep 06 06:35	30°R, Mp		asc. node	14920 Jul 27 11:19	4°₩23'31	
inferior conj	14919 Sep 06 19:08	29° Mp 26'21	1°36'07	evening max el	14920 Aug 05 00:44	15° m 39'51	18°26'02
minimum elong	14919 Sep 06 21:23	29° Mp 20'17	1°35'17	retrograde	14920 Aug 11 10:56	19° m 06'13	
min. Earth dist.	14919 Sep 09 12:38	26° Mp 30'48	0.62993 AU	evening set	14920 Aug 14 13:03	18° m 12'56	
desc. node	14919 Sep 12 07:54	23° m 52'38		inferior conj	14920 Aug 20 08:00	12° m)40'17	2°22'15
morning rise	14919 Sep 13 03:24	23° m 14'22		minimum elong	14920 Aug 20 10:19	12° m 33'23	2°21'17
direct	14919 Sep 19 19:27	20° m/45'49		min. Earth dist.	14920 Aug 22 12:08	10° m 05'33	0.65032 AU
morning max el	14919 Oct 03 19:21	28° Mp 46'09	27°51'43	morning rise	14920 Aug 26 06:17	6° Mp 18'02	
	14919 Oct 05 00:10	0∘ w		desc. node	14920 Aug 29 05:23	4° Mp 25'54	
000 mc J-	14919 Oct 26 11:17	0°M		direct	14920 Sep 01 17:59	3°Mp40'28	27012104
asc. node	14919 Nov 06 16:34	20°M46'33		morning max el	14920 Sep 15 06:03	11° Tp 35'08	27°13'04
morning set	14919 Nov 07 06:33	21°M57'05			14920 Sep 29 22:24	ი∘ ო 0∘ ত	
may Forth 3:-4	14919 Nov 11 03:39	0° द्र ⁷ 2° • ₹13.5'40	1 21004 ATT	morning set	14920 Oct 17 23:47	0°M 5°M 15'19	
max. Earth dist.	14919 Nov 12 08:49	2° ∡ ³35'40	1.31984 AU	morning set asc. node	14920 Oct 20 17:47	5°M15'18	
superior conj	14919 Nov 14 22:39	8° ∡ 10'58	1°10'39	max. Earth dist.	14920 Oct 23 13:17 14920 Oct 25 02:38	10°M49'29 13°M59'18	1.33267 AU
minimum elong	14919 Nov 14 22:39 14919 Nov 14 20:21	8 x 10 38 7° x 58′26	1°11'12	man. Darui Uist.	17/20 001 23 02.38	15 אנטוו פי	1.55401 AU
evening rise	14919 Nov 14 20.21 14919 Nov 21 17:49	23° ∡ '04'29	1 11 12	superior conj	14920 Oct 29 02:09	22°M18'38	0°49'44
evening 1150	17/1/19UV 41 1/.47	23 A UT 29		superior conj	17720 001 27 02.07	22 11010 30	U コノ ココ

minimum elong	14920 Oct 28 23:59	22°M07'07	0°50'05	superior conj	14921 Oct 12 22:18	6° ™ 02'44	
	14920 Nov 01 16:12	0° ∡ ¹		minimum elong	14921 Oct 12 21:01	5°M56′12	0°23'23
evening rise	14920 Nov 05 04:29	7° ∡ ³32′20		evening rise	14921 Oct 20 12:59	21°M52'41	
	14920 Nov 16 21:55	0°ಕ			14921 Oct 24 12:40	0° ∡	
desc. node	14920 Nov 25 02:06	11° る 00'44		evening max el	14921 Nov 08 04:41	22° ∡ ¹40'45	20°38'45
evening max el	14920 Nov 26 08:27	12° る 18'20	22°10'17	desc. node	14921 Nov 11 23:18	25° ∡ ¹48'44	
retrograde	14920 Dec 09 00:05	18° る 34'05		retrograde	14921 Nov 19 10:26	28° ∡ 16′06	
evening set	14920 Dec 12 11:06	18° る 07'39		evening set	14921 Nov 21 19:15	28° ₮ 02'20	
min. Earth dist.	14920 Dec 20 14:47	14° る 29'03	0.54535 AU	inferior conj	14921 Nov 30 16:27	24° ₮ 08'22	-5°12'37
inferior conj	14920 Dec 21 01:01	14° る 14'43	-5°58'27	minimum elong	14921 Nov 30 07:01	24° ∡ ¹21'58	5°09'35
minimum elong	14920 Dec 20 22:31	14° ට 18'14	5°57'20	min. Earth dist.	14921 Dec 01 20:29	23° ∡ ¹27'55	0.54587 AU
morning rise	14920 Dec 29 10:54	10° る 27'35		morning rise	14921 Dec 08 18:43	20° ∡ 11'57	
direct	14921 Jan 01 20:51	10° ට 01'37		direct	14921 Dec 13 04:47	19° ∡ ³30′04	
morning max el	14921 Jan 13 23:54	15° る 51'47	21°40'26	morning max el	14921 Dec 26 11:59	25° ∡ ¹59'07	23°27'19
asc. node	14921 Jan 19 12:47	22° る 15'35		Ü	14921 Dec 30 06:29	0°₹	
	14921 Jan 24 14:53	0° ≈		asc. node	14922 Jan 06 10:01	9° ප 55'26	
morning set	14921 Feb 03 13:26	19° ≈ 09'56			14922 Jan 17 04:45	0° ≈	
	14921 Feb 08 16:14	0° ∀		morning set	14922 Jan 19 01:09	3° ≈ 54'37	
	11,921100 00 10.11	٠,٨		morning sec	11,722 0 411 17 01.07	3	
superior conj	14921 Feb 10 17:44	4° ¥ 20'30	1°18'09	superior conj	14922 Jan 25 22:07	18° ≈ 48'23	1°30'47
minimum elong	14921 Feb 10 20:07	4°) 32′56	1°18'23	minimum elong	14922 Jan 25 23:43	18° ≈ 57'02	1°31'23
max. Earth dist.	14921 Feb 15 02:19	13° ¥ 16'45	1.34721 AU	max. Earth dist.	14922 Jan 28 21:18	25° ≈ 08'47	1.33077 AU
evening rise	14921 Feb 19 06:36	21°) 26'44	1.5 1721 710	max. Earth dist.	14922 Jan 31 05:12	0° ∀	1.55077110
desc. node	14921 Feb 21 02:40	24° H 53'40		evening rise	14922 Feb 02 16:48	5° ₩ 01'27	
desc. Hode	14921 Feb 23 21:58	0° Υ		desc. node	14922 Feb 07 23:14	15°\(\)06'55	
	14921 Mar 15 03:29	0°8		desc. flode	14922 Feb 16 14:59	13 γ (00 33	
avanina may al		13° 8 13'38	26°43'40	avanina may al	14922 Feb 16 14.39 14922 Mar 08 23:42	0 1 26° Υ 41'19	27922115
evening max el	14921 Mar 26 10:30	20° 8 39'04	20 43 40	evening max el		0° 8	27 23 13
retrograde	14921 Apr 08 14:35				14922 Mar 12 18:51	4° 8 11'21	
evening set	14921 Apr 15 00:51	18° 8 06'52		retrograde	14922 Mar 22 15:03	_	
asc. node	14921 Apr 17 09:23	15° 8 55'30	0.66201.441	evening set	14922 Mar 29 08:35	1° 8 42'12	
min. Earth dist.	14921 Apr 19 01:11	14° 8 05'21	0.66291 AU		14922 Mar 31 09:17	30° ₹ Υ	0.64555.433
inferior conj	14921 Apr 21 01:47	11° 8 41'40	1°07'22	min. Earth dist.	14922 Apr 02 04:39	28° Y 12'31	0.64557 AU
minimum elong	14921 Apr 21 00:11	11° 8 46'26	1°06'12	asc. node	14922 Apr 04 06:47	25° Y ′57'53	
morning rise	14921 Apr 27 00:42	6° 8 03'35		inferior conj	14922 Apr 04 17:23	25° Y ′29'09	0°08'24
direct	14921 Apr 30 00:19	5° 8 14'16		minimum elong	14922 Apr 04 17:09	25° Y ′29'47	0°07'59
morning max el	14921 May 06 09:29	8° 8 35'38	18°14'59	transit middle	14922 Apr 04 17:09	25° Y ′29'47	0°07'59
desc. node	14921 May 20 04:36	27° 8 49'12		transit begin	14922 Apr 04 14:29	25° Ƴ 37'00	
	14921 May 21 13:32	Π °0		transit end	14922 Apr 04 19:49	25° Y °22'35	
morning set	14921 May 25 22:30	6° Ⅱ 59'03		morning rise	14922 Apr 11 03:45	20° Y ′05′04	
	14921 Jun 09 11:43	0 \circ		direct	14922 Apr 13 18:15	19° Ƴ 30'05	
				morning max el	14922 Apr 20 02:16	22° Y 45′50	17°52'04
superior conj	14921 Jun 10 07:06	1° © 15'48	-2°03'47		14922 Apr 25 21:22	9° 8	
minimum elong	14921 Jun 10 00:03	0°9548'15	2°04'23	morning set	14922 May 07 09:07	18° 8 33'20	
max. Earth dist.	14921 Jun 11 18:12	3° 5 32'48	1.45927 AU	desc. node	14922 May 07 01:22	18° 8 01'00	
evening rise	14921 Jun 26 08:17	26°©15'17			14922 May 14 06:52	$\Pi^{\circ}0$	
	14921 Jun 28 18:03	$0^{\circ}\Omega$					
greatest brilliancy	14921 Jul 07 03:25	12° Ω 56'43	-0.8m	superior conj	14922 May 21 01:09	10° Ⅱ 56'39	-1°36'14
asc. node	14921 Jul 14 08:02	23° £ 21′26		minimum elong	14922 May 20 16:26	10° Ⅲ 21'51	1°36'13
evening max el	14921 Jul 19 11:09	29° Ω 27'21	19°03'36	max. Earth dist.	14922 May 25 14:17	18° Ⅲ 09'12	1.45407 AU
	14921 Jul 20 00:42	o∘ m y			14922 Jun 02 04:53	0°©	
retrograde	14921 Jul 26 07:04	3° m/ 13'03		evening rise	14922 Jun 05 22:05	5°542'41	
evening set	14921 Jul 29 18:31	2° m/03'02		greatest brilliancy	14922 Jun 20 17:24	27°955'04	-0.6m
Č	14921 Aug 01 03:10	30°R Ω		· ·	14922 Jun 22 04:10	$0^{\circ}\Omega$	
inferior conj	14921 Aug 04 05:59	26° Ω 16'04	2°51'36	asc. node	14922 Jul 01 04:52	11° Ω 45'24	
minimum elong	14921 Aug 04 07:41	26°Ω10'36		evening max el	14922 Jul 02 16:13	13° Ω 18'34	19°57'04
min. Earth dist.	14921 Aug 05 19:48	24°Ω14'50		retrograde	14922 Jul 10 05:43	17° Ω 35'42	-, -, -,
morning rise	14921 Aug 09 20:10	19° Ω 50′29	0.00712110	evening set	14922 Jul 14 03:03	16°Ω08'21	
direct	14921 Aug 15 23:33	17°Ω13'00		inferior conj	14922 Jul 19 10:14	10°Ω08'38	3°06'50
desc. node	14921 Aug 16 02:52	17° Ω 13'04		minimum elong	14922 Jul 19 11:01	10° Ω 05'59	3°05'58
morning max el	14921 Aug 10 02:32	24°Ω48'09	26°08'09	min. Earth dist.	14922 Jul 20 09:57	8° Ω 48'27	0.67964 AU
morning mux Ci	14921 Aug 28 17:21 14921 Sep 02 10:23	0° m	20 00 07	morning rise	14922 Jul 20 09:37	3°Ω44'24	3.07707 AU
	14921 Sep 02 10.23 14921 Sep 23 09:13	0∘ ত الأال		direct	14922 Jul 30 11:11	1°Ω14'50	
morning set	14921 Sep 23 09:13 14921 Oct 03 16:06	0° 22 17° 2 57'14		desc. node		2°Ω03'04	
morning set			1.35063 AU		14922 Aug 03 00:17		2/0/6/10
max. Earth dist.	14921 Oct 07 10:46	25° Ω 06'58	1.33003 AU	morning max el	14922 Aug 11 04:14	8° Ω 15'47	24 40 IY
1	14921 Oct 09 22:26	0°M			14922 Aug 28 05:58	0° M)	
asc. node	14921 Oct 10 09:54	0° ™ 57'10		morning set	14922 Sep 15 21:37	29° m 54'13	
					14922 Sep 15 22:56	0∘ ⊽	

max. Earth dist.	14922 Sep 19 11:12	6° £ 17'33	1.37254 AU		14923 Jul 31 16:51	$0^{\circ}\Omega$	
					14923 Aug 21 12:24	0° m)	
superior conj	14922 Sep 26 08:01	19° ≏ 16'13	-0°08'33	morning set	14923 Aug 28 05:52	10° m 55'11	
minimum elong	14922 Sep 26 08:34	19° ≏ 18'52	0°08'14	max. Earth dist.	14923 Sep 01 09:20	17° m 57'23	1.39633 AU
behind sun begin	14922 Sep 26 02:49	18° ჲ 50'51			14923 Sep 08 03:38	0∘ ত	
behind sun end	14922 Sep 26 14:19	19° ≙ 46'57					
asc. node	14922 Sep 27 06:29	21° ≙ 06'11		superior conj	14923 Sep 09 03:28	1° ≙ 49'40	-0°43'45
	14922 Oct 01 17:35	0° M		minimum elong	14923 Sep 09 06:44	2° ჲ 04'46	0°43'16
evening rise	14922 Oct 04 17:04	6° ™ 00'01		asc. node	14923 Sep 14 03:03	11° ≏ 12'33	
	14922 Oct 18 08:01	0° ∡ ¹		evening rise	14923 Sep 18 13:49	19° ≏ 46'24	
evening max el	14922 Oct 21 15:19	3° ∡ ′50′25	19°27'27		14923 Sep 23 23:28	0° M	
desc. node	14922 Oct 29 20:36	8° ∡ 33'09		evening max el	14923 Oct 04 15:01	15°M49'08	18°38'21
retrograde	14922 Oct 31 05:49	8° ∡ ³38'56		retrograde	14923 Oct 12 18:37	19°M56'03	
evening set	14922 Nov 02 03:17	8° ∡ ′28'31		evening set	14923 Oct 14 16:53	19° M 43'01	
inferior conj	14922 Nov 10 18:49	4° ∡ ¹21'57		desc. node	14923 Oct 16 18:00	19°M02'43	
minimum elong	14922 Nov 10 09:48		3°37'02	inferior conj	14923 Oct 22 17:08	15° M ₁7'00	
min. Earth dist.	14922 Nov 13 05:38	2° ∡ ¹47′05	0.55554 AU	minimum elong	14923 Oct 22 12:29		1°51'57
	14922 Nov 18 11:02	30°RM		min. Earth dist.	14923 Oct 25 20:39	12°M55'48	0.57259 AU
morning rise	14922 Nov 18 14:12	29°M56'53		morning rise	14923 Oct 30 04:43	10° M ₁5′03	
direct	14922 Nov 23 21:56	28°M53'02		direct	14923 Nov 05 05:37	8° M 44'46	
	14922 Nov 29 07:50	0° ∡ ¹		morning max el	14923 Nov 19 11:32	16° M ₊11'49 –	26°44'34
morning max el	14922 Dec 07 21:19	5° ⋌ '54'43	25°15'00		14923 Nov 30 18:00	0° ∡ 7	
asc. node	14922 Dec 24 07:11	28° ₹ '22'49		asc. node	14923 Dec 11 04:15	17° ∡ ¹25'25	
	14922 Dec 25 05:00	0°る			14923 Dec 17 11:38	0°る	
morning set	14923 Jan 03 12:54	18° る 35'28		morning set	14923 Dec 18 22:59	3° る 07'49	
	14923 Jan 08 17:40	0° ≈			14000 5 05 10 00	100705122	1007101
	14000 I 10 06 55	20 26107	1025105	superior conj	14923 Dec 25 18:02	18° ろ 07'33	1°37'21
superior conj	14923 Jan 10 06:55	3°≈26'07	1°37'07	minimum elong	14923 Dec 25 17:33	18°る04'48	1°38'19
minimum elong	14923 Jan 10 07:29	3°≈29'18	1°37'59	max. Earth dist.	14923 Dec 26 06:01	19° る 14'31	1.31232 AU
max. Earth dist.	14923 Jan 11 23:19	7°≈08'23	1.31900 AU		14923 Dec 31 03:09	0° ≈	
evening rise	14923 Jan 17 12:31	18°≈58'52		evening rise	14924 Jan 01 15:12	3°≈12'48	
J J.	14923 Jan 23 02:09	0° ∺ 5° ∺ 03'33		desc. node	14924 Jan 12 16:36	24°≈36'53 0°) €	
desc. node	14923 Jan 25 19:53 14923 Feb 10 22:04	5° π 03'33			14924 Jan 15 21:30 14924 Feb 01 16:53	0° X 21° X 55'23	27012111
avanina may al	14923 Feb 10 22:04 14923 Feb 19 10:35	* .	27°34'49	evening max el	14924 Feb 01 16:53 14924 Feb 15 17:03	21° X 33°23 29° X 13'02	2/-13/11
evening max el retrograde	14923 Feb 19 10.33 14923 Mar 05 08:21	9 1 38 38 17° Υ 05'42	27 34 49	retrograde evening set	14924 Feb 13 17.03	29 X 13 02 27° X 12'56	
evening set	14923 Mar 12 04:54	17 Y 03 42		min. Earth dist.	14924 Feb 26 07:23	24°\(\)230 24°\(\)28'38	0.60318 AU
min. Earth dist.	14923 Mar 15 23:02	11° Y '44'07	0.62520 AU	inferior conj	14924 Feb 29 11:53	21° X 47'21	
inferior conj	14923 Mar 18 21:54	8° Υ 53'54		minimum elong	14924 Feb 29 17:16	21°\(\frac{4}{21}\)	2°23'35
minimum elong	14923 Mar 19 00:03	8° Υ 48'44	1°02'27	morning rise	14924 Mar 08 03:05	16° X 58'49	2 23 33
asc. node	14923 Mar 22 04:15	5° Υ '57'58	1 0227	asc. node	14924 Mar 08 01:44	16° X 59'44	
morning rise	14923 Mar 25 22:03	3° Υ 46'16		direct	14924 Mar 10 04:26	16°) 41′58	
direct	14923 Mar 28 04:50	3° Υ 22'12		morning max el	14924 Mar 17 11:10	20°) € 20′24	17°59'29
morning max el	14923 Apr 03 19:58	6° Y 43'55	17°46'36		14924 Mar 24 16:04	0° Υ	-, -, -,
	14923 Apr 19 02:38	0°B		morning set	14924 Apr 02 00:51	14° Ƴ 48'27	
morning set	14923 Apr 19 19:54	1° 8 15'37		desc. node	14924 Apr 09 18:39	28° Y ′54'52	
desc. node	14923 Apr 23 22:03	8° 8 24'13			14924 Apr 10 09:16	0° ႘	
	1				•		
superior conj	14923 May 01 16:22	21° 8 37'28	-0°59'08	superior conj	14924 Apr 12 07:20	3° 8 23'32	-0°20'22
minimum elong	14923 May 01 10:41	21° 8 13'48	0°59'03	minimum elong	14924 Apr 12 05:34	3° 8 15'47	0°20'32
-	14923 May 06 18:49	Π $^{\circ}$ 0		max. Earth dist.	14924 Apr 19 20:16	16° 8 14'56	1.42438 AU
max. Earth dist.	14923 May 08 07:24	2° Ⅲ 27′21	1.44199 AU	evening rise	14924 Apr 25 11:45	25° 8 24'32	
evening rise	14923 May 16 10:14	15° Ⅲ 13′20			14924 Apr 28 09:43	$\Pi^{\circ}0$	
	14923 May 26 04:55	0 \circ \odot			14924 May 19 01:42	0 \circ \odot	
evening max el	14923 Jun 15 15:19	27° © 10'11	21°04'12	evening max el	14924 May 28 09:20	11° © 02'38	22°21'04
asc. node	14923 Jun 18 01:48	29° 5 23'17		asc. node	14924 Jun 03 22:52	16° © 00'29	
	14923 Jun 18 20:50	0 $^{\circ}\Omega$		retrograde	14924 Jun 07 02:17	16°5544'14	
retrograde	14923 Jun 24 04:43	2° Ω 07'47		evening set	14924 Jun 11 21:25	14° 5 43'53	
evening set	14923 Jun 28 12:36	0° £ 23′24		inferior conj	14924 Jun 17 04:01	8° 5 23'30	3°02'11
	14923 Jun 28 23:34	30° ℝ ∽		minimum elong	14924 Jun 17 02:55	8° ॐ 27'21	3°01'04
inferior conj	14923 Jul 03 18:17	24° © 12'24	3°09'57	min. Earth dist.	14924 Jun 17 01:05	8° © 33'45	0.69053 AU
minimum elong	14923 Jul 03 18:04	24° © 13'07	3°09'00	morning rise	14924 Jun 22 08:14	2° © 10'38	
min. Earth dist.	14923 Jul 04 04:26	23° © 37'05	0.68748 AU	direct	14924 Jun 27 00:25	0°ഇ12'58	
morning rise	14923 Jul 08 23:17	17° © 52'50		morning max el	14924 Jul 06 04:46	5° © 34'36	21°49'45
direct	14923 Jul 14 03:54	15° © 37'08		desc. node	14924 Jul 06 18:56	6°510'39	
desc. node	14923 Jul 20 21:40	18° © 30'16			14924 Jul 24 22:05	0 $^{\circ}\Omega$	
morning max el	14923 Jul 24 15:13	21° © 51'17	23°17'12	morning set	14924 Aug 07 13:48	20° £ 53′05	

	14924 Aug 13 04:41	0° m)		direct	14925 Jun 10 23:22	14° ∏ 55'21	
max. Earth dist.	14924 Aug 13 04.41 14924 Aug 13 11:39	0°Mo28'49	1.41927 AU	morning max el	14925 Jun 10 23:22 14925 Jun 19 00:03	14 H 33 21 19° H 28'33	20°31'03
max. Earm dist.	14924 Aug 13 11.39	U 111/2049	1.4192/ AU	desc. node	14925 Jun 23 16:04	19 ∏ 28 33 24° ∏ 44'41	20 31 03
superior conj	14924 Aug 21 04:15	13° m 33'36	-1°19'30	dese. Hode	14925 Jun 27 16:43	0°95	
minimum elong	14924 Aug 21 10:30	14° m) 00'52		morning set	14925 Jul 18 00:19	29° 9 57'20	
minimum crong	14924 Aug 30 07:47	0° ⊽	1 17 01	morning sec	14925 Jul 18 01:00	0°Ω	
asc. node	14924 Aug 30 23:37	ა – 1° ჲ 12'46		max. Earth dist.	14925 Jul 26 21:07	_	1.43855 AU
evening rise	14924 Aug 31 23:35	3° ₾ 02'53		max. Dartii dist.	11923 341 20 21.07	15 065 157	1.13033 110
evening max el	14924 Sep 16 23:46	28° ₽ 28'31	18°10'20	superior conj	14925 Aug 02 06:27	24° Ω 19'38	-1°50'45
3	14924 Sep 18 17:05	0°M₊		minimum elong	14925 Aug 02 14:01	24°Ω50'58	
retrograde	14924 Sep 24 02:27	2°M06'19			14925 Aug 05 15:52	0° m/y	
evening set	14924 Sep 26 06:54	1° M 46'16		evening rise	14925 Aug 14 17:44	15° mp 38'03	
S	14924 Sep 29 18:54	30° ₽ Ω		asc. node	14925 Aug 17 20:14	21° m 03'03	
desc. node	14924 Oct 02 15:28	27° ≏ 45'51			14925 Aug 23 02:28	0∘ ⊽	
inferior conj	14924 Oct 03 13:06	26° ≏ 58'54	-0°17'04	evening max el	14925 Aug 31 13:19	11° ≙ 38′26	18°01'57
minimum elong	14924 Oct 03 12:31	27° ≙ 00'11	0°16'29	retrograde	14925 Sep 07 01:58	15° ≏ 01'18	
min. Earth dist.	14924 Oct 06 19:29	24° ≏ 08'14	0.59414 AU	evening set	14925 Sep 09 14:20	14° ≏ 30'35	
morning rise	14924 Oct 10 14:47	21° ≏ 22'48		inferior conj	14925 Sep 16 04:09	9° £ 23'36	1°00'47
direct	14924 Oct 17 02:39	19° ≏ 26'04		minimum elong	14925 Sep 16 05:51	9° ≏ 19'21	1°00'14
morning max el	14924 Oct 31 09:35	27° ≏ 11'24	27°41'17	min. Earth dist.	14925 Sep 19 03:50	6° £ 24'16	0.61706 AU
	14924 Nov 03 02:18	0° M		desc. node	14925 Sep 19 12:57	6° ჲ 02'36	
	14924 Nov 23 09:41	0° ∡ ¹		morning rise	14925 Sep 22 18:44	3° ≙ 21'47	
asc. node	14924 Nov 27 01:11	6° х 53′20		direct	14925 Sep 29 10:50	1° ≏ 03'05	
morning set	14924 Dec 02 05:31	17° ∡ ¹26'11		morning max el	14925 Oct 13 14:48	9° 亚 00'09	27°59'00
	14924 Dec 07 23:43	0°ප			14925 Oct 29 20:33	0° M	
max. Earth dist.	14924 Dec 08 14:01	1° る 19'42	1.31097 AU	asc. node	14925 Nov 13 22:01	26°M39'29	
					14925 Nov 15 13:44	0° ∡ ¹	
superior conj	14924 Dec 09 05:30	2° る 46'15	1°31'38	morning set	14925 Nov 16 06:31	1° ∡ 726′11	
minimum elong	14924 Dec 09 04:04	2° る 38'14	1°32'32	max. Earth dist.	14925 Nov 21 19:30	13° ∡ 15′10	1.31506 AU
evening rise	14924 Dec 15 22:34	17° る 36'45					
	14924 Dec 21 23:08	0° ≈		superior conj	14925 Nov 23 15:29	17° ∡ 17′20	1°20'02
desc. node	14924 Dec 29 13:26	13° ≈ 37'05		minimum elong	14925 Nov 23 13:23	17° ∡ ¹05'43	1°20'44
	14925 Jan 10 10:15	0°) {			14925 Nov 29 09:27	0°る	
evening max el	14925 Jan 13 15:57	3°) €20'19	26°16'39	evening rise	14925 Nov 30 08:40	2°る06'06	
retrograde	14925 Jan 27 15:05	10°) €25'59			14925 Dec 15 04:41	0° ≈	
evening set	14925 Feb 02 22:26	8° ¥ 50'53	0.50144.411	desc. node	14925 Dec 16 10:21	1°≈51'56	24050121
min. Earth dist.	14925 Feb 07 05:21	6°) 13'46	0.58144 AU	evening max el	14925 Dec 26 06:28	13°≈53'42	24°50'31
inferior conj	14925 Feb 10 07:32	3° ¥ 58'18 3° ¥ 42'49		retrograde	14926 Jan 09 00:36	20°≈46'22	
minimum elong	14925 Feb 10 15:59 14925 Feb 16 22:04	3°π42'49 30°ℝ≈	3-30-10	evening set min. Earth dist.	14926 Jan 14 12:02 14926 Jan 19 18:22	19°≈39'44	0.56252 AU
morning rise	14925 Feb 18 12:39	30 k≈ 29°≈31'05		inferior conj	14926 Jan 22 06:16	16 ≈33 49 15°≈18'39	
direct	14925 Feb 20 12:38	29 ≈31 03 29°≈17'43		minimum elong	14926 Jan 22 14:56	15 ≈18 39 15°≈04'51	5°09'00
asc. node	14925 Feb 22 23:12	29°≈38'37		morning rise	14926 Jan 30 20:06	13 ≈ 04 51 11° ≈ 12'54	3 09 00
asc. node	14925 Feb 23 23:42	0° ∺		direct	14926 Feb 02 01:41	10°≈59'06	
morning max el	14925 Feb 28 19:59	3° ¥ 23'15	18°32'24	asc. node	14926 Feb 09 20:36	14° ≈ 00'47	
morning set	14925 Mar 16 18:31	28°) 54'48	10 322.	morning max el	14926 Feb 11 18:17	15° ≈ 41'04	19°27'25
morning sec	14925 Mar 17 08:03	0°Υ		morning man er	14926 Feb 21 21:27	0°) €	1, 2, 20
		• •		morning set	14926 Feb 28 20:46	13° ¥ 22'33	
superior conj	14925 Mar 25 19:02	16° Ƴ 05'31	0°15'06	5			
minimum elong	14925 Mar 25 20:04	16° Ƴ 10'19	0°14'46	superior conj	14926 Mar 08 23:06	29° ∺ 31'28	0°44'48
behind sun begin	14925 Mar 25 17:24	15° Ƴ 57'54		minimum elong	14926 Mar 09 01:29	29°) 43′06	0°44'32
behind sun end	14925 Mar 25 22:45	16° Ƴ 22'42		-	14926 Mar 09 04:57	0° Y	
desc. node	14925 Mar 27 15:12	19° Y ′28′28		desc. node	14926 Mar 14 11:43	10° Ƴ 01'39	
max. Earth dist.	14925 Apr 02 05:02	29° Y ′23′10	1.40301 AU	max. Earth dist.	14926 Mar 15 11:28	11° Y 50'43	1.38021 AU
	14925 Apr 02 13:34	$0^{\circ}B$		evening rise	14926 Mar 19 04:16	18° Ƴ 28'11	
evening rise	14925 Apr 06 09:36	6° 8 29'53			14926 Mar 26 00:08	$0^{\circ}S$	
	14925 Apr 21 11:44	Π °0			14926 Apr 15 17:56	Π °0	
evening max el	14925 May 11 00:07		23°42'18	evening max el	14926 Apr 23 13:34	8° Ⅱ 49'51	25°01'17
	14925 May 17 08:48	0 \circ \odot		retrograde	14926 May 05 12:02	15° Ⅱ 46'41	
retrograde	14925 May 21 21:05	1° © 19'14		asc. node	14926 May 08 17:16	15° Ⅱ 02'45	
asc. node	14925 May 21 20:01	1° © 19'13		evening set	14926 May 11 06:20	13° Ⅱ 21'32	
	14925 May 25 23:02	30°R∏		min. Earth dist.	14926 May 15 16:06	8° Ⅲ 25′09	0.68216 AU
evening set	14925 May 27 03:52	29° Ⅱ 04'53		inferior conj	14926 May 16 20:46	6° Ⅱ 50'52	
min. Earth dist.	14925 May 31 21:39	23° I I31'50	0.68871 AU	minimum elong	14926 May 16 18:37		2°13'54
inferior conj	14925 Jun 01 13:29	22° Ⅱ 37'38	2°44'01	morning rise	14926 May 22 07:13	0° I 55'31	
minimum elong	14925 Jun 01 11:41	22° Ⅱ 43'46	2°42'42	P	14926 May 24 00:17	30°R8	
morning rise	14925 Jun 06 19:29	16° Ⅱ 32'57		direct	14926 May 25 23:21	29° 8 38'07	

	14026 May 28, 00:01	0°Щ		direct	14027 May 00, 22:42	14° 8 15'46	
morning max el	14926 May 28 00:01 14926 Jun 02 02:41	0 П 3°П33'28	19°25'39	morning max el	14927 May 09 22:43 14927 May 16 12:23	17° 8 46'09	18°35'59
desc. node	14926 Jun 10 13:06	13° I I57'59	19 23 39	morning max er	14927 May 16 12.23 14927 May 25 23:33	0°Ⅱ	16 33 39
greatest brilliancy	14926 Jun 14 17:49	20° I 100'46	-0.7m	desc. node	14927 May 28 10:01	3° Ⅱ 40'14	
greatest orimancy	14926 Jun 21 09:36	0°95	0.7111	morning set	14927 Jun 06 19:32	18° Ⅱ 17'21	
morning set	14926 Jun 27 03:17	8°9346'17		morning sec	14927 Jun 14 07:08	0°95	
max. Earth dist.	14926 Jul 09 12:24	28°900'03	1.45212 AU				
	14926 Jul 10 18:50	$0^{\circ}\Omega$		superior conj	14927 Jun 22 20:15	13° 5 20'04	-2°12'06
				minimum elong	14927 Jun 22 16:58	13° © 07'13	2°13'00
superior conj	14926 Jul 13 09:19	4° Ω 07'36	-2°10'31	max. Earth dist.	14927 Jun 22 07:09	12° © 28'56	1.45875 AU
minimum elong	14926 Jul 13 13:37	4° Ω 24'41	2°11'16		14927 Jul 03 11:19	$0^{\circ}\Omega$	
evening rise	14926 Jul 27 14:59	27° Ω 18′12		evening rise	14927 Jul 08 11:32	7° Ω 55'51	
	14926 Jul 29 05:56	0° m		greatest brilliancy	14927 Jul 16 03:09	20° Ω 03'14	-0.9m
asc. node	14926 Aug 04 16:51	10° m 37'55		asc. node	14927 Jul 22 13:34	29° Ω 51'46	
evening max el	14926 Aug 15 03:55	25° Mp 08'36	18°12'07		14927 Jul 22 15:50	0° m)	
retrograde	14926 Aug 21 12:32	28° m 30'13		evening max el	14927 Jul 29 16:34	8° m 51'50	18°39'59
evening set	14926 Aug 24 09:24	27° m/45'55		retrograde	14927 Aug 05 06:04	12° m 25'13	
inferior conj	14926 Aug 30 10:11	22° m) 21'57	1°57'55	evening set	14927 Aug 08 11:59	11° m 25'08	000 (100
minimum elong	14926 Aug 30 12:34	22° Mp 15'11	1°56'59	inferior conj	14927 Aug 14 03:21	5° Mp 46'17	2°36'33
min. Earth dist.	14926 Sep 01 22:07 14926 Sep 05 13:59	19° Mp 33'28	0.63888 AU	minimum elong min. Earth dist.	14927 Aug 14 05:28 14927 Aug 16 01:30	5° Mp 39'45 3° Mp 24'16	2°35'37 0.65791 AU
morning rise desc. node	14926 Sep 05 13:39 14926 Sep 06 10:27	16° Mp 04'22 15° Mp 27'02		iiiii. Eartii tiist.	14927 Aug 10 01:30 14927 Aug 19 04:37	3 11√24 10 30°RΩ	0.03/91 AU
direct	14926 Sep 12 04:34	13° my 27' 02		morning rise	14927 Aug 19 04:57	29° Ω 21'37	
morning max el	14926 Sep 26 00:29	21° m/30'52	27°39'11	desc. node	14927 Aug 24 07:56	26°Ω56'51	
morning man vi	14926 Oct 03 10:19	0∘ ⊽	2, 3, 11	direct	14927 Aug 26 06:23	26° Ω 42'50	
	14926 Oct 23 00:21	0° M			14927 Sep 03 08:29	0° m)	
morning set	14926 Oct 30 23:35	15°ML01'30		morning max el	14927 Sep 08 11:47	4° m) 31'57	26°48'07
asc. node	14926 Oct 31 18:46	16° M ₃37'34		Č	14927 Sep 27 22:06	0∘ <u>⊽</u>	
max. Earth dist.	14926 Nov 04 18:30	24°M51'20	1.32466 AU	morning set	14927 Oct 14 05:47	28° ჲ 05'36	
	14926 Nov 07 04:24	0° ∡ ¹			14927 Oct 15 05:38	0° M	
				max. Earth dist.	14927 Oct 18 08:02	6° M 05′58	1.33968 AU
superior conj	14926 Nov 07 21:58	1° ∡ ³34'50	1°02'30	asc. node	14927 Oct 18 15:27	6° M 43′08	
minimum elong	14926 Nov 07 19:39	1° ∡ °22'17	1°02'57				
evening rise	14926 Nov 14 19:38	16° ∡ ³35′26		superior conj	14927 Oct 22 22:40	15°M33'16	0°39'08
	14926 Nov 21 08:42	0°ಕ		minimum elong	14927 Oct 22 20:47	15° M 23′21	0°39'25
desc. node	14926 Dec 03 07:23	19° る 04'18			14927 Oct 29 18:09	0° ∡ ¹	
evening max el	14926 Dec 07 15:58	23° る 53'58	23°08'42	evening rise	14927 Oct 30 05:37	1° ∡ 700′29	
	14926 Dec 17 09:55	0° ≈ 0° ≈ 27'43			14927 Nov 15 16:31	0°중 3°중58'53	21820117
retrograde	14926 Dec 20 21:26 14926 Dec 24 10:48	0°≈2/43 30°Ŗる		evening max el desc. node	14927 Nov 19 05:50 14927 Nov 20 04:32	4° る 52'39	21-2917
evening set	14926 Dec 25 03:04	30 KO 29° 石 48'46		retrograde	14927 Nov 20 04:32 14927 Dec 01 08:49	9° る 59'06	
min. Earth dist.	14927 Jan 01 01:51	26° る 34'30	0.54927 AU	evening set	14927 Dec 04 06:50	9° る 39'39	
inferior conj	14927 Jan 02 09:23	25° る 49'09		inferior conj	14927 Dec 13 01:12	5° る 47'58	-5°46'13
minimum elong	14927 Jan 02 12:16	25° る 44'59		minimum elong	14927 Dec 12 18:59	5°₹56'40	
morning rise	14927 Jan 10 22:57	21° る 58'58		min. Earth dist.	14927 Dec 13 07:37	5° る 38'57	0.54438 AU
direct	14927 Jan 13 19:46	21° る 39'34		morning rise	14927 Dec 21 07:44	1° る 59'01	
morning max el	14927 Jan 25 02:35	27° る 04'46	20°45'44	direct	14927 Dec 25 03:48	1° る 27'03	
asc. node	14927 Jan 27 17:56	29° る 53'49		morning max el	14928 Jan 06 20:38	7° る 35'19	22°24'38
	14927 Jan 27 20:02	0° ≈		asc. node	14928 Jan 14 15:13	16° る 59'57	
morning set	14927 Feb 13 04:32	28° ≈ 02'30			14928 Jan 22 07:47	0° ≈	
	14927 Feb 14 03:12	0° ∀		morning set	14928 Jan 28 15:23	12° ≈ 47'11	
avmani ·	14027 E-L 20 15 17	1201/20122	1907154	avmoni :	14020 E-L 04 1602	27040107	102/110
superior conj minimum elong	14927 Feb 20 15:17 14927 Feb 20 17:53	13°) €29'32 13°) €42'50	1°07'54 1°07'55	superior conj	14928 Feb 04 16:02 14928 Feb 04 18:08	27°≈49'07 28°≈00'14	1°24'18
max. Earth dist.	14927 Feb 20 17:33 14927 Feb 25 19:35	23° ¥ 49′09	1.35839 AU	minimum elong	14928 Feb 04 18:08 14928 Feb 05 16:47	28°≈00°14 0° ∺	1-2441
desc. node	14927 Mar 01 08:15	0° Υ 30'53	1.33639 AU	max. Earth dist.	14928 Feb 03 10.47 14928 Feb 08 09:55	5°) 38'46	1.33965 AU
dese. Hode	14927 Mar 01 01:36	0° γ		evening rise	14928 Feb 12 20:28	14° X 30'51	1.55705 AC
evening rise	14927 Mar 01 17:05	1° Υ 11'46		desc. node	14928 Feb 16 04:48	20°\(\frac{14}{50}\)	
-0*	14927 Mar 19 02:30	0°8			14928 Feb 21 07:47	0° Υ	
evening max el	14927 Apr 06 03:03	22° 8 40'35	26°10'51		14928 Mar 12 20:17	0°8	
retrograde	14927 Apr 18 22:16	29° 8 59'51		evening max el	14928 Mar 18 16:47	6° 8 20'23	27°03'34
evening set	14927 Apr 25 03:08	27° 8 28'29		retrograde	14928 Apr 01 02:43	13° 8 49'36	
asc. node	14927 Apr 25 14:33	27° 8 04'02		evening set	14928 Apr 07 16:17	11° 8 17'57	
min. Earth dist.	14927 Apr 29 06:25	23° 8 07'31	0.67109 AU	asc. node	14928 Apr 11 11:55	7° 8 37'36	
inferior conj	14927 Apr 30 23:53	20° 8 59'19	1°35'36	min. Earth dist.	14928 Apr 11 14:35	7° 8 30'13	0.65590 AU
minimum elong	14927 Apr 30 21:53	21° 8 05'31	1°34'15	inferior conj	14928 Apr 13 20:28	4° 8 56'40	0°43'54
morning rise	14927 May 06 17:28	15° 8 14'30		minimum elong	14928 Apr 13 19:20	4° 8 59'56	0°43'00

	14928 Apr 18 23:26	30° R ♈		minimum elong	14929 Mar 28 08:27	18° Ƴ 34'27	0°20'24
morning rise	14928 Apr 19 23:55	29° Y ′24'09		asc. node	14929 Mar 29 09:20	17° Υ 31'04	0 202.
direct	14928 Apr 22 19:25	28° Y '41'26		morning rise	14929 Apr 03 23:45	13° Y 18'19	
	14928 Apr 26 16:51	0°8		direct	14929 Apr 06 10:48	12° Ƴ 48'21	
morning max el	14928 Apr 29 03:17	1° 8 59'22	18°03'05	morning max el	14929 Apr 12 20:46	16° Ƴ 05'21	17°47'28
desc. node	14928 May 14 06:49	23° 8 43'02		C	14929 Apr 22 20:36	0°B	
morning set	14928 May 17 14:10	29° 8 05'35		morning set	14929 Apr 29 11:48	11° 8 11'16	
-	14928 May 18 03:34	$\Pi^{\circ}0$		desc. node	14929 May 01 03:34	14° 8 00'26	
					14929 May 10 17:15	$\Pi^{\circ}0$	
superior conj	14928 Jun 01 06:48	22° II 37'52	-1°53'49				
minimum elong	14928 May 31 22:16	22° Ⅱ 04'14	1°54'07	superior conj	14929 May 12 08:57	2° Ⅱ 41'45	-1°21'08
max. Earth dist.	14928 Jun 04 03:12	27° Ⅱ 06′04	1.45794 AU	minimum elong	14929 May 12 01:11	2° Ⅱ 10′14	1°21'01
	14928 Jun 05 23:46	0 \circ \odot		max. Earth dist.	14929 May 17 22:27	11° Ⅱ 37′01	1.44981 AU
evening rise	14928 Jun 17 09:27	17° © 39'30		evening rise	14929 May 27 20:29	27° Ⅱ 03'08	
	14928 Jun 25 10:36	$0^{\circ}\Omega$			14929 May 29 18:50	0ංම	
greatest brilliancy	14928 Jun 30 05:21	7° Ω 11'36	-0.7m		14929 Jun 19 12:16	0 ° Ω	
asc. node	14928 Jul 08 10:21	18° Ω 36'32		evening max el	14929 Jun 25 03:32	6° Ω 33'11	20°24'12
evening max el	14928 Jul 12 00:55	22° Ω 41′28	19°24'36	asc. node	14929 Jun 25 07:13	6° Ω 42'22	
retrograde	14928 Jul 19 03:28	26° Ω 39'04		retrograde	14929 Jul 03 02:21	11° Ω 06'08	
evening set	14928 Jul 22 19:01	25° Ω 21'51		evening set	14929 Jul 07 04:12	9° £ 31′22	
inferior conj	14928 Jul 28 04:20	19° Ω 29'34	2°59'37	inferior conj	14929 Jul 12 10:26	3° Ω 26'50	
minimum elong	14928 Jul 28 05:39	19° Ω 25'11	2°58'45	minimum elong	14929 Jul 12 10:48	3° Ω 25'36	
min. Earth dist.	14928 Jul 29 12:11	17° Ω 44'49	0.67303 AU	min. Earth dist.	14929 Jul 13 04:20	2° Ω 25'32	0.68363 AU
morning rise	14928 Aug 02 15:44	13° Ω 04'05			14929 Jul 15 00:26	30°R∽	
direct	14928 Aug 08 14:53	10° Ω 28'48		morning rise	14929 Jul 17 17:05	27°504'32	
desc. node	14928 Aug 10 05:23	10° Ω 38'39	25924146	direct	14929 Jul 23 04:47	24°9540'12	
morning max el	14928 Aug 20 22:46 14928 Aug 31 03:38	17° Ω 51'21 0° m	25*34.40	desc. node	14929 Jul 28 02:48 14929 Aug 01 23:49	26° © 12'49 0° Ω	
	14928 Aug 31 03.38 14928 Sep 19 21:58	0∘ ত اللا		morning max el	14929 Aug 01 23.49 14929 Aug 03 09:17	1° Ω 21'37	24008141
morning set	14928 Sep 19 21:38 14928 Sep 25 21:30	0 = 10° £ 29'40		morning max cr	14929 Aug 05 03:17 14929 Aug 25 02:38	0°m	24 0841
max. Earth dist.	14928 Sep 29 11:59	10 = 2940 17° £ 09'54	1.35950 AU	morning set	14929 Sep 07 18:24	22° Mp 03'09	
asc. node	14928 Oct 04 12:05	26° ♀ 52'07	1.55750710	max. Earth dist.	14929 Sep 11 10:45	28° m) 29'45	1.38259 AU
use. Houe	14920 001 04 12.03	20 = 32 07		max. Earth dist.	14929 Sep 12 06:55	0ಂ ರ	1.50257710
superior conj	14928 Oct 05 14:51	29° ₽ 05'43	0°10'16				
minimum elong	14928 Oct 05 14:13	29° ₽ 02'34	0°10'32	superior conj	14929 Sep 18 19:00	12° ჲ 03'06	-0°23'11
behind sun begin	14928 Oct 05 09:27	28° ≏ 38'39		minimum elong	14929 Sep 18 20:37	12° ♀ 10'45	0°22'47
behind sun end	14928 Oct 05 19:00	29° ≏ 26'31		asc. node	14929 Sep 21 08:41	17° ≏ 00'18	
	14928 Oct 06 01:39	0°M		evening rise	14929 Sep 27 13:52	29° ₽ 15'09	
evening rise	14928 Oct 13 12:32	15°ML16'04			14020 0 27 22 57		
					14929 Sep 27 22:57	0° M ₊	
	14928 Oct 21 01:27	0° ∡ ¹		evening max el	14929 Sep 2/ 22:5/ 14929 Oct 14 00:48	0°ጤ 26°ጤ11'51	19°03'55
evening max el	14928 Oct 21 01:27 14928 Oct 31 08:15	0° ₰ 14° ₰ 41'14	20°05'52	evening max el	=		19°03'55
evening max el desc. node			20°05'52	evening max el retrograde	14929 Oct 14 00:48	26°M11'51	19°03'55
•	14928 Oct 31 08:15	14° ∡ ′41′14	20°05'52	-	14929 Oct 14 00:48 14929 Oct 19 10:36	26°M11'51 0°⊀	19°03'55
desc. node	14928 Oct 31 08:15 14928 Nov 06 01:47	14° √ 41'14 18° √ 51'31	20°05'52	retrograde	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14	26° ™ 11'51 0° ҂ ¹ 0° ҂ ³41'26	19°03'55
desc. node retrograde evening set inferior conj	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08	14° ₹ 41'14 18° ₹ 51'31 19° ₹ 56'06		retrograde desc. node evening set	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08	26°M11'51 0° ₹ 0° ₹41'26 0° ₹38'17 0° ₹30'24 30°RM	
desc. node retrograde evening set inferior conj minimum elong	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21	14° \$\times^441'14 18° \$\times^551'31 19° \$\times^56'06 19° \$\times^444'39 15° \$\times^446'57 16° \$\times^02'05		retrograde desc. node evening set inferior conj	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12	26°M11'51 0°\$\tilde{X}\\ 0°\$\tilde{X}\\ 0°\$\tilde{X}\\ 41'26\\ 0°\$\tilde{X}\\ 38'17\\ 0°\$\tilde{X}\\ 30°\$\tilde{K}\\ 26°M15'47	-2°55'53
desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49	-4°37'40	retrograde desc. node evening set inferior conj minimum elong	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34	26°M11'51 0° ₹ 0° ₹41'26 0° ₹38'17 0° ₹30'24 30° RM 26°M15'47 26°M28'23	-2°55'53 2°52'21
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19	-4°37'40 4°33'54	retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33	26°M.11'51 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$41'26 0° \$\frac{1}{2}\$38'17 0° \$\frac{1}{2}\$30'24 30°RM. 26°M.15'47 26°M.28'23 24°M.20'00	-2°55'53
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07	14° \$\times^441'14 18° \$\times^55'31 19° \$\times^56'06 19° \$\times^444'39 15° \$\times^40'57 16° \$\times^02'05 14° \$\times^442'49 11° \$\times^449'19 10° \$\times^449'28	-4°37'40 4°33'54 0.54893 AU	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16	26° M.11'51 0° ₹ 41'26 0° ₹ 38'17 0° ₹ 30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45	-2°55'53 2°52'21
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19 10° ₹49'28 17° ₹33'21	-4°37'40 4°33'54 0.54893 AU	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02	26° M.11'51 0° ₹ 0° ₹41'26 0° ₹38'17 0° ₹30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12	-2°55'53 2°52'21 0.56202 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19 10° ₹49'28 17° ₹33'21 0° ₹	-4°37'40 4°33'54 0.54893 AU	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 05 01:33 14929 Nov 15 14:02 14929 Nov 29 16:48	26°ML11'51 0° \$\frac{1}{2}\$ 0° \$\frac{1}{2}\$41'26 0° \$\frac{1}{2}\$30'24 30°RM 26°ML15'47 26°ML28'23 24°ML20'00 21°ML35'45 20°ML21'12 27°ML33'35	-2°55'53 2°52'21 0.56202 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19 10° ₹49'28 17° ₹33'21 0° ₹5° ₹502'16	-4°37'40 4°33'54 0.54893 AU	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15	26° M.11'51 0° ₹ 0° ₹ 41'26 0° ₹ 38'17 0° ₹ 30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° ₹	-2°55'53 2°52'21 0.56202 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23	14° 🗷 41'14 18° 🗷 51'31 19° 🗷 56'06 19° 🗷 44'39 15° 🗷 46'57 16° 🗷 02'05 14° 🗷 42'49 11° 🗷 49'19 10° 🗷 49'28 17° 🗷 33'21 0° 云 5° 云 02'16 27° 云 31'22	-4°37'40 4°33'54 0.54893 AU	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33	26° M.11'51 0° \$\times^4\$ 41'26 0° \$\times^4\$ 30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° \$\times^4\$ 23° \$\times^4\$ 45'56	-2°55'53 2°52'21 0.56202 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19 10° ₹49'28 17° ₹33'21 0° ₹5° ₹502'16	-4°37'40 4°33'54 0.54893 AU	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59	26°M.11'51 0° ₹ 41'26 0° ₹ 38'17 0° ₹ 30'24 30° RM. 26°M.15'47 26°M.28'23 24°M.20'00 21°M.35'45 20°M.21'12 27°M.33'35 0° ₹ 45'56 0° ₹ 6	-2°55'53 2°52'21 0.56202 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※	-4°37'40 4°33'54 0.54893 AU 24°14'01	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33	26° M.11'51 0° \$\times^4\$ 41'26 0° \$\times^4\$ 30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° \$\times^4\$ 23° \$\times^4\$ 45'56	-2°55'53 2°52'21 0.56202 AU
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56	14° 🗷 41'14 18° 🗷 51'31 19° 🗷 56'06 19° 🗷 44'39 15° 🗷 46'57 16° 🗷 02'05 14° 🗷 42'49 11° 🗷 40'19 10° 🗷 49'28 17° 🗷 33'21 0° 云 5° 云 02'16 27° 云 31'22 0° ≈	-4°37'40 4°33'54 0.54893 AU 24°14'01	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39	26°M11'51 0° ₹ 0° ₹41'26 0° ₹38'17 0° ₹30'24 30° RM 26°M15'47 26°M28'23 24°M20'00 21°M35'45 20°M21'12 27°M33'35 0° ₹ 23° ₹45'56 0° ₹ 12° ₹09'12	-2°55'53 2°52'21 0.56202 AU 25°56'26
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56	14° 🗷 41'14 18° 🗷 51'31 19° 🗷 56'06 19° 🗷 44'39 15° 🗷 46'57 16° 🗷 02'05 14° 🗷 42'49 11° 🗷 40'19 10° 🗷 49'28 17° 🗷 33'21 0° 云 5° 云 02'16 27° 云 31'22 0° ※ 12° ※ 22'33 12° ※ 29'01	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 18 09:33 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39	26° M.11'51 0° ¾ 41'26 0° ¾ 38'17 0° ¾ 30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° ¾ 23° ¾ 45'56 0° ℧ 12° ℧ 09'12 27° ℧ 02'18	-2°55'53 2°52'21 0.56202 AU 25°56'26
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※ 12° ※22'33 12° ※29'01 17° ※34'46	-4°37'40 4°33'54 0.54893 AU 24°14'01	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45	26° M.11'51 0° 0° 41'26 0° 38'17 0° 30'24 30° 8M. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° 0° 12° 509'12 27° 502'18 27° 502'58	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 26 11:09	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※ 12° ※22'33 12° ※29'01 17° ※34'46 28° ※17'03	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 05 01:33 14929 Nov 05 01:33 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51	26° M.11'51 0° ¾ 41'26 0° ¾ 38'17 0° ¾ 30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° ¾ 23° ¾ 45'56 0° ♂ 12° ♂ 09'12 27° ♂ 09'12 27° ♂ 02'18 27° ♂ 02'58 29° ♂ 38'55	-2°55'53 2°52'21 0.56202 AU 25°56'26
desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 26 11:09 14929 Jan 27 07:38	14° 🗷 41'14 18° 🗷 51'31 19° 🗷 56'06 19° 🗷 44'39 15° 🗷 46'57 16° 🗷 02'05 14° 🗷 42'49 11° 🗷 40'19 10° 🗷 49'28 17° 🗷 33'21 0° 🗷 5° 🗷 02'16 27° 🗷 31'22 0° 🕿 12° ※ 22'33 12° ※ 29'01 17° ※ 34'46 28° ※ 17'03 0°) ★	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57	retrograde desc. node 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.	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51 14930 Jan 04 16:40	26° M.11'51 0° 0° 41'26 0° 38'17 0° 30'24 30° 8M. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° 0° 12° 509'12 27° 502'18 27° 502'58	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52
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	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 26 11:09	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※ 12° ※22'33 12° ※29'01 17° ※34'46 28° ※17'03	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57	retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 05 01:33 14929 Nov 05 01:33 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51	26° M.11'51 0° ₹ 0° ₹41'26 0° ₹38'17 0° ₹30'24 30° RM 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° ₹ 23° ₹45'56 0° ₹ 12° ₹09'12 27° ₹02'58 29° ₹38'55 0° ≈	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52
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	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 26 11:09 14929 Jan 27 07:38 14929 Feb 02 01:26	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※ 12° ※22'33 12° ※29'01 17° ※34'46 28° ※17'03 0° 沃 10° 沃59'06	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57	retrograde desc. node 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.	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 05 01:33 14929 Nov 05 01:33 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 16:40 14930 Jan 04 16:40 14930 Jan 04 16:40	26° M.11'51 0° ₹ 0° ₹41'26 0° ₹38'17 0° ₹30'24 30° RM. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° ₹ 23° ₹45'56 0° ₹ 12° ₹09'12 27° ₹02'18 27° ₹02'58 29° ₹38'55 0° ≈ 12° ≈22'12	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52
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 desc. node	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 27 07:38 14929 Feb 02 01:26 14929 Feb 13 12:20	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※ 12° ※22'33 12° ※29'01 17° ※34'46 28° ※17'03 0° 升 10° 升59'06 0° 丫	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57 1.32522 AU	retrograde desc. node 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	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 05 01:33 14929 Nov 05 01:33 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51 14930 Jan 04 16:40 14930 Jan 10 10:08 14930 Jan 10 10:08	26° M.11'51 0° 0° 38'17 0° 30'24 30° 8M. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° 23° 34'5'56 0° 12° 502'18 27° 502'58 29° 38'55 0° 12° 23° 12° 21'12	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52
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 desc. node	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 21 08:13 14929 Jan 26 11:09 14929 Jan 27 07:38 14929 Feb 02 01:26 14929 Feb 13 12:20 14929 Mar 01 05:32	14° ズ41'14 18° ズ51'31 19° ズ56'06 19° ズ44'39 15° ズ46'57 16° ズ02'05 14° ズ42'49 11° ズ40'19 10° ズ49'28 17° ズ33'21 0° 云 5° 云02'16 27° 云31'22 0° ※ 12° ※22'33 12° ※29'01 17° ※34'46 28° ※17'03 0° ዢ 10° 奷59'06 0° ϒ 19° ϒ38'05	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57 1.32522 AU	retrograde desc. node 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	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 05 01:33 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 02 02:15 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51 14930 Jan 04 16:40 14930 Jan 10 10:08 14930 Jan 19 11:37 14930 Jan 19 11:37	26° M.11'51 0° 0° 41'26 0° 38'17 0° 30'24 30° 8M. 26° M.15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° 23° 45'56 0° 12° 509'12 27° 502'58 29° 38'55 0° 12° 22' 22' 12° 22' 24' 24' M.20'00 21' M.35'45 20' M.21'12 27° M.33'35 0° 23° 24' M.20'00 21' M.35'45 0° 21	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52 1.31558 AU
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 desc. node evening max el retrograde	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 26 11:09 14929 Jan 27 07:38 14929 Feb 02 01:26 14929 Feb 13 12:20 14929 Mar 01 05:32 14929 Mar 15 00:13	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19 10° ₹49'28 17° ₹33'21 0° ₹ 5° ₹02'16 27° ₹31'22 0° ≈ 12° ≈22'33 12° ≈29'01 17° ≈34'46 28° ≈17'03 0° ₹ 10° ₹59'06 0° ♀ 19° ♀38'05 27° ♀06'58 24° ♀41'44	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57 1.32522 AU	retrograde desc. node 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 desc. node	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 18 09:33 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51 14930 Jan 04 16:40 14930 Jan 10 10:08 14930 Jan 19 11:37 14930 Jan 19 22:07 14930 Feb 09 07:18	26° M.11'51 0° 0° 0° 41'26 0° 38'17 0° 30'24 30° 15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° 23° 45'56 0° 12° 502'18 27° 502'58 29° 38'55 0° 12° 13° 14°	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52 1.31558 AU
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 desc. node evening max el retrograde evening set	14928 Oct 31 08:15 14928 Nov 06 01:47 14928 Nov 10 21:08 14928 Nov 12 23:21 14928 Nov 21 19:47 14928 Nov 21 09:42 14928 Nov 23 14:34 14928 Nov 29 19:04 14928 Dec 04 15:07 14928 Dec 18 06:15 14928 Dec 28 08:19 14928 Dec 31 12:25 14929 Jan 12 03:23 14929 Jan 13 06:56 14929 Jan 18 22:36 14929 Jan 18 23:47 14929 Jan 21 08:13 14929 Jan 26 11:09 14929 Jan 27 07:38 14929 Feb 02 01:26 14929 Feb 13 12:20 14929 Mar 01 05:32 14929 Mar 15 00:13 14929 Mar 21 19:30	14° ₹41'14 18° ₹51'31 19° ₹56'06 19° ₹44'39 15° ₹46'57 16° ₹02'05 14° ₹42'49 11° ₹40'19 10° ₹49'28 17° ₹33'21 0° ₹ 5° ₹02'16 27° ₹31'22 0° ≈ 12° ≈22'33 12° ≈29'01 17° ≈34'46 28° ≈17'03 0° ₹ 10° ₹59'06 0° ♀ 19° ♀38'05 27° ♀06'58 24° ♀41'44	-4°37'40 4°33'54 0.54893 AU 24°14'01 1°34'13 1°34'57 1.32522 AU 27°31'58 0.63725 AU	retrograde desc. node 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 desc. node evening max el	14929 Oct 14 00:48 14929 Oct 19 10:36 14929 Oct 22 23:14 14929 Oct 23 23:08 14929 Oct 24 20:12 14929 Oct 26 15:45 14929 Nov 02 05:55 14929 Nov 01 22:34 14929 Nov 05 01:33 14929 Nov 09 22:16 14929 Nov 15 14:02 14929 Nov 29 16:48 14929 Dec 18 09:33 14929 Dec 21 16:59 14929 Dec 27 14:39 14930 Jan 03 08:38 14930 Jan 03 08:45 14930 Jan 04 12:51 14930 Jan 04 16:40 14930 Jan 19 11:37 14930 Jan 19 22:07 14930 Feb 09 07:18 14930 Feb 01 11:55	26° M.11'51 0° 0° 0° 41'26 0° 38'17 0° 30'24 30° 15'47 26° M.28'23 24° M.20'00 21° M.35'45 20° M.21'12 27° M.33'35 0° 23° 23° 45'56 0° 12° 502'18 27° 502'58 29° 38'55 0° 12° 22'12 0° 12° 12° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12 27° 21'12	-2°55'53 2°52'21 0.56202 AU 25°56'26 1°37'56 1°38'52 1.31558 AU

min. Earth dist.	14930 Mar 08 04:37	4° Υ 36'58	0.61605 AU	inferior conj	14931 Feb 21 13:09	14°) (24'47	
inferior conj	14930 Mar 11 06:36	1° Υ 48'44 1° Υ 40'52		minimum elong	14931 Feb 21 19:59	14° 米 11'12 9° 米 45'29	3°00'11
minimum elong	14930 Mar 11 10:02 14930 Mar 13 07:46	1° 1 40 52 30°R ∺	1-3541	morning rise direct	14931 Mar 01 10:40 14931 Mar 03 10:49	9° H 30'34	
asc. node	14930 Mar 16 06:48	27°) € 50'41		asc. node	14931 Mar 03 04:16	9° X 30'51	
morning rise	14930 Mar 18 13:04	26°\(\)48'46		morning max el	14931 Mar 11 02:50	13° ¥ 18'54	18°10'58
direct	14930 Mar 20 17:22	26° ¥ 28'05		morning max ci	14931 Mar 22 09:03	0°Υ	10 10 30
morning max el	14930 Mar 27 13:49	29° ¥ 55'14	17°49'44	morning set	14931 Mar 26 17:57	8°Υ05'53	
morning man vi	14930 Mar 27 15:45	0°Υ	1, 1, 1,	desc. node	14931 Apr 04 20:47	24° Y ′59'42	
morning set	14930 Apr 12 07:03	24° Y °17'25			r		
S	14930 Apr 15 11:47	0° ႘		superior conj	14931 Apr 05 10:43	26° Y ′02'21	-0°04'45
desc. node	14930 Apr 18 00:13	4° 8 27'24		minimum elong	14931 Apr 05 10:19	26° Y ′00′35	0°05'01
				behind sun begin	14931 Apr 05 03:05	25° Y ′28′02	
superior conj	14930 Apr 23 10:24	13° 8 50'51	-0°42'32	behind sun end	14931 Apr 05 17:33	26° Y ′33'04	
minimum elong	14930 Apr 23 06:27	13° 8 34'02	0°42'32		14931 Apr 07 16:08	9° 8	
max. Earth dist.	14930 Apr 30 14:28	_	1.43514 AU	max. Earth dist.	14931 Apr 13 01:25	9° 8 17'10	1.41558 AU
	14930 May 03 05:33	Π °0		evening rise	14931 Apr 17 22:38	17° 8 21'07	
evening rise	14930 May 07 12:57	6° Ⅱ 48'04			14931 Apr 25 23:55	Π °0	
	14930 May 23 00:59	0° ©			14931 May 17 17:49	0°50	
evening max el	14930 Jun 08 00:18	20°525'18	21°35'57	evening max el	14931 May 21 16:28	4°9517'17	22°55'25
asc. node	14930 Jun 12 04:12	23°556'43		asc. node	14931 May 30 01:17	10°502'44	
retrograde	14930 Jun 17 00:57	25°541'16		retrograde	14931 May 31 21:37	10°517'51	
evening set	14930 Jun 21 13:40	23° © 49'39 17° © 34'18	3°07'57	evening set	14931 Jun 05 21:40 14931 Jun 11 05:17	8°911'04 1°947'08	2°55'45
inferior conj minimum elong	14930 Jun 26 19:26 14930 Jun 26 18:50	17 934 18 17 936'25	3°06'56	inferior conj minimum elong	14931 Jun 11 03:51	1°952'06	
min. Earth dist.	14930 Jun 26 23:54	17° © 18'45	0.68939 AU	min. Earth dist.	14931 Jun 10 20:46	2° © 16'40	0.69030 AU
morning rise	14930 Jul 01 23:49	11°9517'37	0.00737 AC	iiiii. Lartii dist.	14931 Jun 12 12:29	2 3 10 40	0.07030 AC
direct	14930 Jul 06 23:07	9°509'28		morning rise	14931 Jun 16 09:57	25° ∏ 37'34	
desc. node	14930 Jul 15 00:07	13°9514'06		direct	14931 Jun 20 20:43	23° I I48'32	
morning max el	14930 Jul 16 21:08	15°901'00	22°39'23	morning max el	14931 Jun 29 12:56	28° ∏ 49'04	21°14'53
	14930 Jul 29 01:51	$0^{\circ}\Omega$		C	14931 Jun 30 16:26	0ಂತಾ	
	14930 Aug 18 01:38	0° m)		desc. node	14931 Jul 01 21:19	1° © 19'15	
morning set	14930 Aug 19 16:31	2° m 37'52			14931 Jul 22 16:25	$0^{\circ}\Omega$	
max. Earth dist.	14930 Aug 24 10:42	10° m 32'42	1.40637 AU	morning set	14931 Jul 30 14:25	12° Ω 10′25	
				max. Earth dist.	14931 Aug 06 15:41	23° Ω 26′54	1.42803 AU
superior conj	14930 Sep 01 07:04	24° Mp 16'41			14931 Aug 10 14:57	0° ™	
minimum elong	14930 Sep 01 11:39	24° m 37'21	0°58'33				
	14930 Sep 04 10:16	0∘ ⊽		superior conj	14931 Aug 13 22:32	5° TQ 36'00	
asc. node	14930 Sep 08 05:17	7° Ω 04'42		minimum elong	14931 Aug 14 05:42	6° Mp 06'38	1°33'21
evening rise	14930 Sep 11 06:30	12° Ω 50'32		evening rise	14931 Aug 25 10:14	25° Mp 50'44	
	14930 Sep 20 19:33	0°M	10022152	asc. node	14931 Aug 26 01:51	27°™,00'58 0°₽	
evening max el retrograde	14930 Sep 27 04:47 14930 Oct 04 20:37	8°ጤ28'29 12°ጤ21'46	18°23'52	evening max el	14931 Aug 27 17:42 14931 Sep 10 16:00	0° 22 21° 2 21'28	18°04'26
evening set	14930 Oct 04 20.37 14930 Oct 06 21:02	12°M06'18		retrograde	14931 Sep 10 10:00	21° 2 51'24	18 04 20
desc. node	14930 Oct 00 21:02 14930 Oct 10 20:32	10°M16'03		evening set	14931 Sep 17 11:30	24° ⊆ 27'22	
inferior conj	14930 Oct 14 13:34	7°M30'50	-1°11'07	inferior conj	14931 Sep 26 18:06	19° £ 31'34	0°18'32
minimum elong	14930 Oct 14 10:50			minimum elong	14931 Sep 26 18:42	19° Ω 30'11	0°18'32
min. Earth dist.	14930 Oct 17 19:36	4° ጤ 54'47		desc. node	14931 Sep 27 18:00	18° ≏ 35'30	
morning rise	14930 Oct 21 21:08	2°M13'19		min. Earth dist.	14931 Sep 29 22:36	16° ≙ 34'19	0.60386 AU
direct	14930 Oct 28 03:15	0°M31'50		morning rise	14931 Oct 03 15:03	13° ≏ 42'59	
morning max el	14930 Nov 11 10:30	8°M07'32	27°13'24	direct	14931 Oct 10 05:27	11° ≏ 35'53	
	14930 Nov 27 23:03	0° ∡ ¹		morning max el	14931 Oct 24 11:57	19° ≏ 28'10	27°53'39
asc. node	14930 Dec 05 06:35	13° ∡ 00'06			14931 Nov 02 11:34	0° M	
morning set	14930 Dec 11 23:28	26° ₹ 35'59			14931 Nov 20 19:29	0° ∡	
	14930 Dec 13 13:19	8°0		asc. node	14931 Nov 22 03:30	2° ∡ ³36′14	
	14020 D 10 20 00	110710110	100 510 0	morning set	14931 Nov 26 03:54	10° ∡ 746'53	1 21102 177
superior conj	14930 Dec 18 20:06	11° る 42'43		max. Earth dist.	14931 Dec 02 03:48	25~ × '46'20	1.31193 AU
minimum elong	14930 Dec 18 19:11	11°る37'36		gunorier con:	14021 Dec 02 07:10	260.710022	102727
max. Earth dist. evening rise	14930 Dec 18 20:37 14930 Dec 25 15:01	11°545'35 26° 5 40'21	1.31107 AU	superior conj minimum elong	14931 Dec 03 07:10 14931 Dec 03 05:24	26° ₹ 18'33 26° ₹ 08'45	
evening fise	14930 Dec 25 15:01 14930 Dec 27 04:48	26° 6 40′21 0° ≈		minimum eiong	14931 Dec 03 05:24 14931 Dec 04 22:51	26° メ ′08'45 0° る	1 40 10
desc. node	14930 Dec 27 04.48 14931 Jan 06 18:53	0 ≈ 20°≈07'12		evening rise	14931 Dec 04 22.31 14931 Dec 09 23:44	0 8 11° る 06'33	
acoc. node	14931 Jan 13 00:59	20 ≈ 07 12 0° ∺		0,0111115 1150	14931 Dec 19 10:37	0°≈	
evening max el	14931 Jan 24 18:11	14°) 14'05	26°53'10	desc. node	14931 Dec 24 15:44	8° ≈ 49'43	
retrograde	14931 Feb 07 18:04	21°) 27'08		evening max el	14932 Jan 06 13:25	25°≈15'42	25°43'06
evening set	14931 Feb 14 08:40	19° ¥ 36'35		Č	14932 Jan 12 17:38	0°) €	
min. Earth dist.	14931 Feb 18 08:13		0.59379 AU	retrograde	14932 Jan 20 11:30	2° 升 17'06	

evening set	14932 Jan 26 11:27	0°) 53′53		retrograde	14932 Dec 31 15:32	12° ≈ 17'20	
evening set	14932 Jan 28 06:16	0 / (33 33 30°R ≈		evening set	14932 Dec 31 15:32 14933 Jan 05 15:01	12 ≈1720 11°≈23'20	
min. Earth dist.	14932 Jan 31 02:16	28°≈15'05	0.57277 AU	min. Earth dist.	14933 Jan 11 12:46	8°≈27'37	0.55594 AU
inferior conj	14932 Feb 03 00:06	26°≈14'58		inferior conj	14933 Jan 13 14:00	7°≈13'08	
minimum elong	14932 Feb 03 00:00		4°25'47	minimum elong	14933 Jan 13 21:00	7°≈02'30	
morning rise	14932 Feb 11 09:52	23 ≈5710 21°≈57'20	7 23 77	morning rise	14933 Jan 22 04:48	3°≈14'45	3 3430
direct	14932 Feb 13 10:56	21°≈44'27		direct	14933 Jan 24 15:35	2°≈59'16	
asc. node	14932 Feb 18 01:42	22°≈54'21		asc. node	14933 Feb 03 23:05	7°≈56'38	
morning max el	14932 Feb 22 07:48	26°≈04'45	18°53'02	morning max el	14933 Feb 04 00:24	7°≈59'48	19°57'54
morning man vi	14932 Feb 25 17:40	0° ∀	10 23 02		14933 Feb 18 09:22	0° ∀	19 878.
morning set	14932 Mar 09 15:45	22°) 22'55		morning set	14933 Feb 21 20:42	6°) 56'34	
. 8	14932 Mar 13 12:56	0° Υ					
				superior conj	14933 Mar 01 15:40	22°){ 45'36	0°55'25
superior conj	14932 Mar 18 06:00	9° Ƴ 05'10	0°28'28	minimum elong	14933 Mar 01 18:15	22°) 58'31	0°55'14
minimum elong	14932 Mar 18 07:46	9° Y 13'33	0°28'06	Č	14933 Mar 05 08:23	0° Υ	
desc. node	14932 Mar 21 17:20	15° Ƴ 33'55		max. Earth dist.	14933 Mar 07 14:56	4° Υ 18'53	1.37069 AU
max. Earth dist.	14932 Mar 25 08:21	22° Y ′06'00	1.39330 AU	desc. node	14933 Mar 08 13:52	6° Y 05'40	
evening rise	14932 Mar 29 05:38	28° Y ′50'31		evening rise	14933 Mar 11 08:28	11° Y ′09'18	
	14932 Mar 29 22:02	0°B		-	14933 Mar 22 13:47	9° 8	
	14932 Apr 18 10:20	Π $^{\circ}0$			14933 Apr 13 19:12	Π $^{\circ}0$	
evening max el	14932 May 03 06:27	18° Ⅱ 11'21	24°16'32	evening max el	14933 Apr 15 20:03	2° Ⅱ 05'09	25°32'29
retrograde	14932 May 14 15:03	24° Ⅱ 50'31		retrograde	14933 Apr 28 04:01	9° Ⅱ 12′28	
asc. node	14932 May 15 22:27	24° Ⅱ 43′05		asc. node	14933 May 02 19:42	7° Ⅱ 43'01	
evening set	14932 May 20 02:38	22° Ⅱ 31'17		evening set	14933 May 04 02:54	6° Ⅱ 44'22	
min. Earth dist.	14932 May 24 16:50	17° Ⅱ 13'38	0.68650 AU	min. Earth dist.	14933 May 08 09:52	2° Ⅱ 03'01	0.67804 AU
inferior conj	14932 May 25 14:05	16° Ⅱ 01'52	2°33'10	inferior conj	14933 May 09 19:52	0° Ⅱ 13'46	1°59'55
minimum elong	14932 May 25 12:05	16° Ⅱ 08'36	2°31'47	minimum elong	14933 May 09 17:43	0°Ⅱ20'43	1°58'28
morning rise	14932 May 30 21:38	10° Ⅱ 00'44			14933 May 10 00:09	30° ₹ 8	
direct	14932 Jun 03 20:23	8° Ⅱ 31'49		morning rise	14933 May 15 09:00	24° 8 22'28	
morning max el	14932 Jun 11 11:12	12° Ⅱ 47'46	20°01'17	direct	14933 May 18 20:28	23° 8 13'05	
desc. node	14932 Jun 17 18:24	20° Ⅱ 11'33		morning max el	14933 May 25 16:54	26° 8 56'05	19°02'25
	14932 Jun 24 19:17	0			14933 May 28 12:15	Π °0	
morning set	14932 Jul 08 19:14	21° © 00'58		desc. node	14933 Jun 04 15:23	9° Ⅱ 38′07	
	14932 Jul 14 14:20	0 $^{\circ}$ Ω		greatest brilliancy	14933 Jun 07 19:41	14° ∏ 20'44	-0.7m
max. Earth dist.	14932 Jul 19 03:13	7° Ω 08'58	1.44515 AU	morning set	14933 Jun 18 01:32	0° © 01'25	
					14933 Jun 18 01:10	0	
superior conj	14932 Jul 24 14:30	15° Ω 56'14		max. Earth dist.	14933 Jul 01 20:29	21° © 27'05	1.45593 AU
minimum elong	14932 Jul 24 21:22	16° Ω 24'08	2°01'19				
	14932 Aug 02 02:18	0° m		superior conj	14933 Jul 04 09:13	25° © 25'25	
evening rise	14932 Aug 06 20:03	8° mp 03'19		minimum elong	14933 Jul 04 10:31	25° © 30'34	2°14'36
asc. node	14932 Aug 11 22:26	16° m 44'58			14933 Jul 07 06:49	0°Ω	
	14932 Aug 20 08:22	0∘ ⊽		evening rise	14933 Jul 19 07:01	19° Ω 17'04	
evening max el	14932 Aug 24 06:26	4° Ω 41'03	18°04'07		14933 Jul 25 21:20	0° my	
retrograde	14932 Aug 30 16:10	8° Ω 01'28		asc. node	14933 Jul 29 19:05	6° Mp 11'37	10001150
evening set	14932 Sep 02 08:08	7° Ω 25'18	1027127	evening max el	14933 Aug 07 20:38	18° Mp 18'08	18°21'53
inferior conj	14932 Sep 08 15:59	2° Ω 11'05	1°27'26	retrograde	14933 Aug 14 06:05	21° m/42'47 20° m/51'49	
minimum elong	14932 Sep 08 18:08 14932 Sep 10 17:23	2°••05'24	1°26'40	evening set	14933 Aug 17 06:51	-	2°16'22
min. Earth dist.	14932 Sep 10 17.23 14932 Sep 11 11:14	30°RM) 29°M)13'58	0.62665 AU	inferior conj minimum elong	14933 Aug 23 03:12 14933 Aug 23 05:33	15° Mp 21'17 15° Mp 14'19	
desc. node	14932 Sep 11 11:14 14932 Sep 13 15:29	27° Mp 10'16	0.02003 AU	min. Earth dist.	14933 Aug 25 09:22	12° Mp 42'41	0.64746 AU
morning rise	14932 Sep 15 13:29 14932 Sep 15 01:52	26° Mp 01'32		morning rise	14933 Aug 29 02:52	9° Mg 00'04	0.04740 AU
direct	14932 Sep 13 01:32	23° m/ 35'13		desc. node	14933 Aug 27 02:52 14933 Aug 31 12:58	7° Mg 24'24	
direct	14932 Oct 04 03:36	0° ي		direct	14933 Sep 04 15:27	6° Mg 23'26	
morning max el	14932 Oct 05 19:10	0 — 1° Ω 34'52	27°54'45	morning max el	14933 Sep	14° Mp 19'32	27°20'46
morning max cr	14932 Oct 26 17:54	0°M	27 3443	morning max cr	14933 Sep 30 23:55	0° <u>م</u>	27 20 40
asc. node	14932 Nov 08 00:18	22°M27'45			14933 Oct 19 09:56	0° m .	
morning set	14932 Nov 09 01:47	24°M36'34		morning set	14933 Oct 17 07:30	7°M59'21	
	14932 Nov 11 16:17	0° ⊼		asc. node	14933 Oct 25 21:01	12°M29'33	
max. Earth dist.	14932 Nov 14 06:43	5° ≯ 32'54	1.31841 AU	max. Earth dist.	14933 Oct 28 02:02	17°M00'06	1.33044 AU
superior conj	14932 Nov 16 15:54	10° √ 44'19	1°13'20	superior conj	14933 Oct 31 20:15	24°M54'40	0°53'19
minimum elong	14932 Nov 16 13:38	10° ∡ ³31'56	1°13'55	minimum elong	14933 Oct 31 18:01	24°M42'46	0°53'40
evening rise	14932 Nov 23 10:24	25° ∡ ³36′04			14933 Nov 03 05:03	0° ∡ ¹	
	14932 Nov 25 11:54	5°0		evening rise	14933 Nov 07 21:13	10° ≯ °04'30	
desc. node	14932 Dec 10 12:42	26° る 40'00			14933 Nov 18 01:20	5°0	
	14932 Dec 13 01:15	0° ≈		desc. node	14933 Nov 27 09:47	13° る 19'30	
evening max el	14932 Dec 18 01:12	5° ≈ 31'49	24°08'14	evening max el	14933 Nov 29 11:23	15° る 29'21	22°25'09

retrograde	14933 Dec 12 06:55	21°る50'07			14934 Nov 16 20:56	0°ಕ	
evening set	14933 Dec 15 22:48	21° る 20'41		retrograde	14934 Nov 22 17:16	1°る28'10	
inferior conj	14933 Dec 13 22:40 14933 Dec 24 10:49	17°る26'30	-6°00'01	evening set	14934 Nov 25 05:01	1°る13'15	
minimum elong	14933 Dec 24 09:45	17° る 27'59	5°59'02	evening set	14934 Nov 28 23:48	30°R. ₹	
min. Earth dist.	14933 Dec 23 18:49	17° る 48'57	0.54611 AU	inferior conj	14934 Dec 04 01:52	27°×7'20'10	-5°23'11
morning rise	14934 Jan 01 21:49	13° る 39'10	0.54011710	minimum elong	14934 Dec 03 17:02	27° × 2010	
direct	14934 Jan 05 04:15	13°る15'06		min. Earth dist.	14934 Dec 05 17:02	26° × 47'54	0.54517 AU
morning max el	14934 Jan 17 02:11	18° ろ 58'39	21°25'41	morning rise	14934 Dec 12 05:11	23°×726'18	0.54517 710
asc. node	14934 Jan 21 20:25	24° る 22'26	21 23 41	direct	14934 Dec 16 11:37	22° × ⁷ 47'16	
ase. Hode	14934 Jan 25 17:55	0°≈		morning max el	14934 Dec 29 15:38	29°×711'11	23°10'58
morning set	14934 Feb 06 06:03	0 ~ 21° ≈ 39'00		morning max cr	14934 Dec 30 11:40	0° る	23 10 30
morning set	14934 Feb 10 05:06	0° \		asc. node	14935 Jan 08 17:41	11° る 53'45	
	14754160 10 05.00	٥ ٨		use. Houe	14935 Jan 18 16:15	0°≈	
superior conj	14934 Feb 13 11:51	6° ¥ 53'11	1°15'39	morning set	14935 Jan 21 17:37	6°≈23'51	
minimum elong	14934 Feb 13 14:18	7° ₩ 05'58	1°15'50	morning set	14933 Jan 21 17.37	0 ~2331	
max. Earth dist.	14934 Feb 18 01:37	16° ∺ 12'04	1.35000 AU	superior conj	14935 Jan 28 15:23	21° ≈ 19'14	1°29'16
evening rise	14934 Feb 18 01.37 14934 Feb 22 03:54	24°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	1.33000 AU	minimum elong	14935 Jan 28 17:08	21°≈28'36	1°29'50
desc. node		26°\(\frac{1}{31'18}\)		max. Earth dist.		21 ≈28 30 28°≈03'00	
desc. node	14934 Feb 23 10:25	26° π 31'18 0° Υ		max. Earth dist.	14935 Jan 31 19:22	28° ≈ 03′00 0° ∺	1.33288 AU
	14934 Feb 25 07:57				14935 Feb 01 17:49		
	14934 Mar 16 04:05	0°8	26925145	evening rise	14935 Feb 05 12:25	7°) (39'13	
evening max el	14934 Mar 29 09:49	15° 8 52'14	26°35'45	desc. node	14935 Feb 10 07:01	16°) (46'42	
retrograde	14934 Apr 11 11:41	23° 8 16'18			14935 Feb 17 21:24	0°Υ	27010100
evening set	14934 Apr 17 20:41	20° 8 44'05		evening max el	14935 Mar 11 23:10	29° Y 23′21	27°19'00
asc. node	14934 Apr 19 17:02	19° 8 02'48	0.66516.477		14935 Mar 12 14:36	0°8	
min. Earth dist.	14934 Apr 21 21:43	16° 8 37'43	0.66516 AU	retrograde	14935 Mar 25 13:19	6° 8 53'46	
inferior conj	14934 Apr 23 20:31	14° 8 17'43	1°15'12	evening set	14935 Apr 01 05:57	4° 8 23'35	
minimum elong	14934 Apr 23 18:46	14° 8 22'55	1°13'59	min. Earth dist.	14935 Apr 05 02:28	0° 8 49'28	0.64832 AU
morning rise	14934 Apr 29 17:57	8° 8 37'57			14935 Apr 05 20:51	30° ŖƳ	
direct	14934 May 02 19:02	7° 8 46'15		asc. node	14935 Apr 06 14:27	29° Y 11'45	
morning max el	14934 May 09 05:04	11° 8 09'26	18°19'56	inferior conj	14935 Apr 07 13:32	28° Y ′08′07	0°18'13
desc. node	14934 May 22 12:17	29° 8 29'37		minimum elong	14935 Apr 07 13:02	28° Y ′09'31	0°17'38
	14934 May 22 20:01	Π °0		morning rise	14935 Apr 13 22:02	22° Y 41'52	
morning set	14934 May 29 04:18	10° Ⅱ 03'33		direct	14935 Apr 16 13:46	22° Y 05'02	
	14934 Jun 10 19:39	0 \circ		morning max el	14935 Apr 22 21:32	25° Y 21′02	17°54'25
					14935 Apr 26 20:43	0° 8	
superior conj	14934 Jun 13 17:46	4° © 33'57	-2°06'35	desc. node	14935 May 09 09:05	19° 8 39'15	
minimum elong	14024 T 12 11 22	40.					
	14934 Jun 13 11:32	4° © 09'40	2°07'17	morning set	14935 May 10 10:54	21° 8 26'17	
max. Earth dist.	14934 Jun 13 11:32 14934 Jun 14 16:42	6°503'26	2°07'17 1.45938 AU	morning set	14935 May 10 10:54 14935 May 15 15:24	21° 8 26′17 0° Ⅱ	
max. Earth dist. evening rise		6°\$03'26 29°\$29'37		morning set	•		
	14934 Jun 14 16:42	6°503'26		morning set superior conj	•		-1°41'14
	14934 Jun 14 16:42 14934 Jun 29 17:14	6°\$03'26 29°\$29'37		·	14935 May 15 15:24	0°П	
evening rise	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00	6°\$03'26 29°\$29'37 0°\$\text{\$\Omega\$}	1.45938 AU	superior conj	14935 May 15 15:24 14935 May 24 09:30	0°П 14°П08'07	
evening rise greatest brilliancy	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03	6°\$03'26 29°\$29'37 0°\$ 15°\$\O5'49	1.45938 AU	superior conj minimum elong	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39	0°П 14°П08'07 13°П32'54	1°41'18
evening rise greatest brilliancy	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57	1.45938 AU	superior conj minimum elong	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51	0°П 14°П08'07 13°П32'54 20°П40'30	1°41'18
evening rise greatest brilliancy asc. node	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31	6°\$03'26 29°\$29'37 0°\$ 15°\$05'49 25°\$13'57 0°\$	1.45938 AU -0.8m	superior conj minimum elong max. Earth dist.	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26	0°П 14°П08'07 13°П32'54 20°П40'30 0°©	1°41'18
evening rise greatest brilliancy asc. node evening max el	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42	6°\$03'26 29°\$29'37 0°\$ 15°\$05'49 25°\$13'57 0°\$ 2°\$04'33	1.45938 AU -0.8m	superior conj minimum elong max. Earth dist.	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44	0°П 14°П08'07 13°П32'54 20°П40'30 0°© 9°©00'10	1°41'18
evening rise greatest brilliancy asc. node evening max el retrograde	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42	6°\$03'26 29°\$29'37 0°\$ 15°\$05'49 25°\$13'57 0°\$ 2°\$04'33 5°\$046'45	1.45938 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18	0°Π 14°Π08'07 13°Π32'54 20°Π40'30 0°\$ 9°\$00'10 0°Ω	1°41'18 1.45528 AU
evening rise greatest brilliancy asc. node evening max el retrograde	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41	6°\$03'26 29°\$29'37 0°\$ 15°\$05'49 25°\$013'57 0°\$\$ 2°\$04'33 5°\$046'45 4°\$039'20	1.45938 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17	0° Π 14° Π08'07 13° Π32'54 20° Π40'30 0° 9° © 00'10 0° Ω 0° Ω43'40	1°41'18 1.45528 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\O5'49 25°\$\O13'57 0°\$\mathred{m}\$ 2°\$\mathred{m}\$04'33 5°\$\mathred{m}\$46'45 4°\$\mathred{m}\$39'20 30°\$\mathred{R}\$\Omega\$	1.45938 AU -0.8m 18°56'55	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39	0°Ⅱ 14°Ⅱ08'07 13°Ⅱ32'54 20°Ⅱ40'30 0°⑤ 9°⑤00'10 0°ℳ 0°ℳ43'40 13°ℳ43'51	1°41'18 1.45528 AU -0.6m
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0\$\Color{R}\Omega\$28°\$\Omega\$54'20	1.45938 AU -0.8m 18°56'55 2°48'06	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° © 9° © 00'10 0° Ω 0° Ω 43'40 13° Ω 43'51 15° Ω 55'30 20° Ω 07'22 18° Ω 42'43	1°41'18 1.45528 AU -0.6m
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0\$\$\$\Omega\$28°\$\Omega\$48'31	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° © 9° © 00'10 0° Ω 0° Ω 43'40 13° Ω 43'51 15° Ω 55'30 20° Ω 07'22	1°41'18 1.45528 AU -0.6m
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$ 28°\$\Omega\$54'20 28°\$\Omega\$48'31 26°\$\Omega\$47'27	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° © 9° © 00'10 0° Ω 0° Ω 43'40 13° Ω 43'51 15° Ω 55'30 20° Ω 07'22 18° Ω 42'43	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01 14934 Aug 12 15:18	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\$\Omega\$220 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35	0°Ⅱ 14°Ⅱ08'07 13°Ⅱ32'54 20°Ⅱ40'30 0°☞ 9°☞00'10 0°Ω 13°Ω43'51 15°Ω55'30 20°Ω07'22 18°Ω42'43 12°Ω44'51	1°41'18 1.45528 AU -0.6m 19°48'08
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01 14934 Aug 12 15:18 14934 Aug 18 10:27	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0 28°\$\Omega\$54'20 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° © 9° © 00'10 0° Ω 0° Ω 43'40 13° Ω 43'51 15° Ω 55'30 20° Ω 07'22 18° Ω 42'43 12° Ω 44'51 12° Ω 44'51	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 20:02	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\R\$\Omega\$28°\$\Omega\$48'31 26°\$\Omega\$44'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 23 05:25	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° © 9° © 00'10 0° Ω 0° Ω 43'40 13° Ω 43'51 15° Ω 55'30 20° Ω 07'22 18° Ω 42'43 12° Ω 44'51 12° Ω 41'43 11° Ω 18'05	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 31 17:09	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$028°\$\Omega\$48'31 26°\$\Omega\$44'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.664488 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14935 May 15 15:24 14935 May 24 09:30 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° S 9° S00'10 0° Ω 0° Ω43'40 13° Ω43'51 15° Ω55'30 20° Ω07'22 18° Ω42'43 12° Ω44'51 12° Ω41'43 11° Ω18'05 6° Ω20'04	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 18 16:01 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 31 17:09 14934 Sep 03 01:45	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$028°\$\Omega\$48'31 26°\$\Omega\$44'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.664488 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 02 07:00	0° ∏ 14° ∏08'07 13° ∏32'54 20° ∏40'30 0° ∰ 9° ∰00'10 0° ℳ 13° ℳ43'40 13° ℳ43'51 15° ℳ55'30 20° ℳ07'22 18° ℳ42'43 12° ℳ44'51 12° ℳ41'43 11° ℳ18'05 6° ℳ20'04 3° ℳ48'46	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 31 17:09 14934 Sep 03 01:45 14934 Sep 03 01:45	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$028'\$\Omega\$48'31 26°\$\Omega\$447'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.664488 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jul 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53	0° ∏ 14° ∏08'07 13° ∏32'54 20° ∏40'30 0° © 9° ©00'10 0° Ω 0° Ω43'40 13° Ω43'51 15° Ω55'30 20° Ω07'22 18° Ω42'43 12° Ω44'51 12° Ω41'43 11° Ω18'05 6° Ω20'04 3° Ω48'46 4° Ω24'12	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 07 00:04 14934 Aug 07 00:04 14934 Aug 08 16:01 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 31 17:09 14934 Sep 03 01:45 14934 Sep 24 16:16 14934 Oct 06 15:07	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$20°\$\Omega\$47'08	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jul 23 19:17 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53 14935 Aug 14 04:08	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° \$6 9° \$500'10 0° \$\Omega\$ 0° \$\Omega\$43'40 13° \$\Omega\$43'51 15° \$\Omega\$55'30 20° \$\Omega\$07'22 18° \$\Omega\$42'43 12° \$\Omega\$44'51 12° \$\Omega\$41'43 11° \$\Omega\$18'05 6° \$\Omega\$20'04 3° \$\Omega\$48'46 4° \$\Omega\$24'12 10° \$\Omega\$56'00	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 08 16:01 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Sep 03 01:45 14934 Sep 24 16:16 14934 Oct 06 15:07 14934 Oct 10 11:39	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0 28°\$\Omega\$54'20 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$0 20°\$\Omega\$47'08 28°\$\Omega\$09'20	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 05 07:53 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 40'30 13° II 43'51 15° II 5° II 44'51 12° II 44'51 12° II 44'51 12° II 8'05 6° II 8'0	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU
evening rise greatest brilliancy 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 max. Earth dist.	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\$\Omega\$220 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$20°\$\Omega\$47'08 28°\$\Omega\$49'20 0°\$\Omega\$1	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08	superior conj minimum elong max. Earth dist. evening rise 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	14935 May 15 15:24 14935 May 24 09:30 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 0° II 0° II 0° II 13° II 43'51 15° II 55'30 20° II 07'22 18° II 42'43 12° II 44'51 12° II 14'3 11° II 18'05 6° II 20'04 3° II 48'46 4° II 24'12 10° II 56'00 0° III 0° II	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU
evening rise greatest brilliancy 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 max. Earth dist.	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\$\Omega\$220 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$20°\$\Omega\$47'08 28°\$\Omega\$49'20 0°\$\Omega\$1	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08	superior conj minimum elong max. Earth dist. evening rise 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	14935 May 15 15:24 14935 May 24 09:30 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27 14935 Sep 18 23:26	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 0° II 0° II 0° II 13° II 43'51 15° II 55'30 20° II 07'22 18° II 42'43 12° II 44'51 12° II 18'05 6° II 20'04 3° II 48'46 4° II 24'12 10° II 56'00 0° III 0° II 2° II 19	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU 24°59'06
evening rise greatest brilliancy 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 max. Earth dist. asc. node	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 01:53 14934 Aug 07 01:53 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 18 20:02 14934 Aug 31 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39 14934 Oct 11 10:10 14934 Oct 12 17:40	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$0 20°\$\Omega\$47'08 28°\$\Omega\$09'20 0°\$\Omega\$1.	1.45938 AU -0.8m -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08	superior conj minimum elong max. Earth dist. evening rise 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	14935 May 15 15:24 14935 May 24 09:30 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27 14935 Sep 18 23:26	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 0° II 0° II 0° II 13° II 43'51 15° II 55'30 20° II 07'22 18° II 42'43 12° II 44'51 12° II 18'05 6° II 20'04 3° II 48'46 4° II 24'12 10° II 56'00 0° III 0° II 2° II 19	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU 24°59'06
evening rise greatest brilliancy 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 max. Earth dist. asc. node superior conj	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 01:53 14934 Aug 07 01:53 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 18 10:27 14934 Aug 18 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39 14934 Oct 11 10:10 14934 Oct 12 17:40	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$0 20°\$\Omega\$47'08 28°\$\Omega\$09'20 0°\$\Omega\$1.36'41	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08 1.34765 AU	superior conj minimum elong max. Earth dist. evening rise 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.	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27 14935 Sep 18 23:26 14935 Sep 22 12:41	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° © 9° © 00'10 0° Ω 0° Ω 43'40 13° Ω 43'51 15° Ω 55'30 20° Ω 07'22 18° Ω 42'43 12° Ω 44'51 12° Ω 41'43 11° Ω 18'05 6° Ω 20'04 3° Ω 48'46 4° Ω 24'12 10° Ω 56'00 0° ID 0° Ω 2° Ω 51'19 9° Ω 16'23	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU 24°59'06 1.36910 AU -0°03'30
evening rise greatest brilliancy 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 max. Earth dist. asc. node superior conj minimum elong	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 01:53 14934 Aug 07 01:53 14934 Aug 12 15:18 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 18 10:27 14934 Aug 31 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39 14934 Oct 11 10:10 14934 Oct 12 17:40 14934 Oct 15 17:40 14934 Oct 15 17:40	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$0 28°\$\Omega\$48'31 26°\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$0 20°\$\Omega\$47'08 28°\$\Omega\$9'20 0°\$\Omega\$1 2°\$\Omega\$36'41	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08 1.34765 AU	superior conj minimum elong max. Earth dist. evening rise 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.	14935 May 15 15:24 14935 May 24 09:30 14935 May 24 00:39 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 23 05:25 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27 14935 Sep 18 23:26 14935 Sep 29 05:11	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 0° II 0° II 0° II 0° II 15° II 15	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU 24°59'06 1.36910 AU -0°03'30
evening rise greatest brilliancy 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 max. Earth dist. asc. node superior conj minimum elong	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 18 10:27 14934 Aug 31 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39 14934 Oct 11 10:10 14934 Oct 15 17:40 14934 Oct 15 17:40 14934 Oct 15 16:12 14934 Oct 15 16:12	6°\$03'26 29°\$29'37 0°\$\Omega\$ 15°\$\Omega\$05'49 25°\$\Omega\$13'57 0°\$\Omega\$ 2°\$\Omega\$04'33 5°\$\Omega\$46'45 4°\$\Omega\$39'20 30°\$\Omega\$028'\$\Omega\$47'27 22°\$\Omega\$28'43 19°\$\Omega\$51'22 19°\$\Omega\$50'46 27°\$\Omega\$30'04 0°\$\Omega\$0 20°\$\Omega\$47'08 28°\$\Omega\$909'20 0°\$\Omega\$1 2°\$\Omega\$36'41 8°\$\Omega\$42'24 8°\$\Omega\$34'50 24°\$\Omega\$126'02	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08 1.34765 AU	superior conj minimum elong max. Earth dist. evening rise 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. superior conj minimum elong	14935 May 15 15:24 14935 May 24 09:30 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27 14935 Sep 18 23:26 14935 Sep 29 05:11 14935 Sep 29 05:11	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 0° II 0° II 0° II 0° II 15° II 15	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU 24°59'06 1.36910 AU -0°03'30
evening rise greatest brilliancy 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 max. Earth dist. asc. node superior conj minimum elong evening rise	14934 Jun 14 16:42 14934 Jun 29 17:14 14934 Jun 30 01:00 14934 Jul 09 18:03 14934 Jul 16 15:49 14934 Jul 20 09:31 14934 Jul 22 07:42 14934 Jul 29 01:42 14934 Aug 01 11:41 14934 Aug 06 03:14 14934 Aug 07 00:04 14934 Aug 07 01:53 14934 Aug 18 10:27 14934 Aug 18 10:27 14934 Aug 18 20:02 14934 Aug 18 10:27 14934 Aug 31 17:09 14934 Sep 03 01:45 14934 Oct 10 11:39 14934 Oct 10 11:39 14934 Oct 11 10:10 14934 Oct 15 17:40 14934 Oct 15 17:40 14934 Oct 23 06:10 14934 Oct 23 06:10 14934 Oct 25 22:58	6°\$03'26 29°\$29'37 0°\$\alpha\$ 15°\$\alpha\$05'49 25°\$\alpha\$13'57 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$04'33 5°\$\mathbf{m}\$46'45 4°\$\mathbf{m}\$39'20 30°\$\alpha\$\alpha\$ 28°\$\alpha\$54'20 28°\$\alpha\$48'31 26°\$\alpha\$47'27 22°\$\alpha\$28'43 19°\$\alpha\$51'22 19°\$\alpha\$50'46 27°\$\alpha\$30'04 0°\$\mathbf{m}\$ 0°\$\mathbf{n}\$ 20°\$\mathbf{n}\$47'08 28°\$\mathbf{n}\$09'20 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$36'41 8°\$\mathbf{m}\$42'24 8°\$\mathbf{m}\$34'50 24°\$\mathbf{m}\$26'02 0°\$\scrip*\$	1.45938 AU -0.8m 18°56'55 2°48'06 2°47'11 0.66488 AU 26°19'08 1.34765 AU 0°27'31 0°27'46	superior conj minimum elong max. Earth dist. evening rise 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. superior conj minimum elong behind sun begin	14935 May 15 15:24 14935 May 24 09:30 14935 May 28 12:51 14935 Jun 03 12:26 14935 Jun 09 08:44 14935 Jun 23 07:18 14935 Jun 23 19:17 14935 Jul 03 12:39 14935 Jul 05 13:40 14935 Jul 13 00:10 14935 Jul 16 19:57 14935 Jul 22 03:35 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 22 04:31 14935 Jul 27 12:40 14935 Aug 02 07:00 14935 Aug 05 07:53 14935 Aug 05 07:53 14935 Aug 14 04:08 14935 Aug 29 09:24 14935 Sep 17 08:27 14935 Sep 18 23:26 14935 Sep 29 05:11 14935 Sep 29 05:23 14935 Sep 29 05:23 14935 Sep 29 05:23	0° II 14° II 08'07 13° II 32'54 20° II 40'30 0° II 0° II 0° II 0° II 0° II 15° II 12° II 12° II 18' II 10° II 10	1°41'18 1.45528 AU -0.6m 19°48'08 3°05'20 3°04'26 0.67810 AU 24°59'06 1.36910 AU -0°03'30

	14935 Oct 03 05:19	0° M		evening rise	14936 Sep 20 09:09	22° ≏ 25'28	
evening rise	14935 Oct 07 11:04	8°M35'19			14936 Sep 24 07:53	0° M	
	14935 Oct 19 04:04	0° ∡ ¹		evening max el	14936 Oct 06 12:15	18°ML40'03	18°44'17
evening max el	14935 Oct 24 14:12	6° ∡ ¹47'58	19°36'42	retrograde	14936 Oct 14 20:21	22°M52'17	
desc. node	14935 Nov 01 04:16	11° ≯ ′28′03		evening set	14936 Oct 16 18:07	22°M39'54	
retrograde	14935 Nov 03 10:29	11° х ⁴43′09		desc. node	14936 Oct 18 01:36	22°M17'46	
evening set	14935 Nov 05 08:41	11° ∡ ³32'43		inferior conj	14936 Oct 24 20:57	18° ™ 16'58	-2°10'21
inferior conj	14935 Nov 14 01:52	7° ∡ ¹28'50	-3°56'33	minimum elong	14936 Oct 24 15:35	18° M 26'47	2°07'34
minimum elong	14935 Nov 13 16:24	7° ∡ ¹43'50	3°52'33	min. Earth dist.	14936 Oct 27 22:57	16°M01'52	0.56970 AU
min. Earth dist.	14935 Nov 16 09:02	6° ∡ 101'38	0.55354 AU	morning rise	14936 Nov 01 09:50	13°M20'48	
morning rise	14935 Nov 21 22:14	3° ∡ 08'49		direct	14936 Nov 07 08:41	11° M 54'31	
direct	14935 Nov 27 03:07	2° ₹ 08'25		morning max el	14936 Nov 21 13:49	19° ™ 17'51	26°33'04
morning max el	14935 Dec 11 00:45	9° ∡ ¹06′02	24°59'42		14936 Nov 30 15:41	0° ∡ ¹	
	14935 Dec 26 11:27	ರ°0		asc. node	14936 Dec 12 11:57	19° ∡ 12'49	
asc. node	14935 Dec 26 14:52	0° る 14'46			14936 Dec 17 23:34	8°0	
morning set	14936 Jan 06 05:29	21° る 05'28		morning set	14936 Dec 20 15:55	5° ⋜ 39'18	
	14936 Jan 10 07:14	0° ≈					
				superior conj	14936 Dec 27 10:34	20° る 37'04	1°37'41
superior conj	14936 Jan 12 23:40	5° ≈ 55'54	1°36'32	minimum elong	14936 Dec 27 10:14	20° る 35'12	1°38'39
minimum elong	14936 Jan 13 00:25	5° ≈ 59'58	1°37'23	max. Earth dist.	14936 Dec 28 02:40	22° る 06'55	1.31300 AU
max. Earth dist.	14936 Jan 14 20:24	10°≈01'06	1.32040 AU		14936 Dec 31 16:20	0° ≈	
evening rise	14936 Jan 20 06:55	21° ≈ 33'48		evening rise	14937 Jan 03 08:43	5° ≈ 45'43	
C	14936 Jan 24 12:39	0°)		desc. node	14937 Jan 14 00:22	26° ≈ 23'34	
desc. node	14936 Jan 28 03:40	6°) 46′16			14937 Jan 16 02:54	0° ∀	
	14936 Feb 11 19:21	0° Y		evening max el	14937 Feb 03 17:50	24°) 49′50	27°18'40
evening max el	14936 Feb 22 10:35	12° Y ′26′26	27°35'12	•	14937 Feb 10 11:41	$0^{\circ}\mathbf{Y}$	
retrograde	14936 Mar 07 07:51	19° Ƴ 54'14		retrograde	14937 Feb 17 17:47	2° Y ′08'34	
evening set	14936 Mar 14 04:11	17° Ƴ 33'40		evening set	14937 Feb 24 12:22	0° Y ′05′24	
min. Earth dist.	14936 Mar 17 22:25	14° Y °27'00	0.62835 AU	· ·	14937 Feb 24 15:58	30°₽)	
inferior conj	14936 Mar 20 19:57	11° Y 36'51	-0°51'34	min. Earth dist.	14937 Feb 28 08:17	27° ¥ 18'54	0.60653 AU
minimum elong	14936 Mar 20 21:40	11° Y ′32'39	0°50'59	inferior conj	14937 Mar 03 12:18	24°) €35'21	-2°12'51
asc. node	14936 Mar 23 11:54	9° Y 07'40		minimum elong	14937 Mar 03 17:10	24°) 24'51	2°10'44
morning rise	14936 Mar 27 17:55	6° Y 26'30		asc. node	14937 Mar 10 09:20	19° ¥ 56'22	
direct	14936 Mar 30 01:42	6° Y ′01′04		morning rise	14937 Mar 11 01:14	19°){ 43'36	
morning max el	14936 Apr 05 15:17	9° Υ 21'20	17°46'14	direct	14937 Mar 13 03:15	19°) 25′51	
S	14936 Apr 19 11:19	0° ႘		morning max el	14937 Mar 20 07:01	23°) €01'06	17°56'17
morning set	14936 Apr 21 18:26	3° 8 59'25		Č	14937 Mar 25 19:03	$0^{\circ}\mathbf{Y}$	
desc. node	14936 Apr 25 05:46	10° 8 00'53		morning set	14937 Apr 04 21:00	17° Y °25'24	
	1	_		Z .	14937 Apr 11 19:34	0° ႘	
superior conj	14936 May 03 21:11	24° 8 38'48	-1°05'03	desc. node	14937 Apr 12 02:24	0° 8 30'26	
minimum elong	14936 May 03 14:54	24° 8 12'50	1°04'55		1		
Č	14936 May 07 03:32	$\Pi^{\circ}0$		superior conj	14937 Apr 15 08:37	6° 8 14'46	-0°26'07
max. Earth dist.	14936 May 10 06:20	5° Ⅱ 01'24	1.44421 AU	minimum elong	14937 Apr 15 06:19	6° 8 04'44	
evening rise	14936 May 18 20:02	18° Ⅲ 27′24		max. Earth dist.	14937 Apr 22 20:03	18° 8 54'29	1.42733 AU
C	14936 May 26 10:48	0° ©		evening rise	14937 Apr 28 18:51	28° 8 30'35	
evening max el	14936 Jun 17 13:41	29°5547'10	20°53'27	•	14937 Apr 29 17:32	$\Pi^{\circ}0$	
C	14936 Jun 17 18:51	$0^{\circ}\Omega$			14937 May 20 02:36	0°ಅ	
asc. node	14936 Jun 19 09:35	1° Ω 29'29		evening max el	14937 May 31 08:22	13° © 39'11	22°09'12
retrograde	14936 Jun 25 23:11	4° Ω 38′09		asc. node	14937 Jun 06 06:36	18° © 16'35	
evening set	14936 Jun 30 05:28	2° Ω 56′18		retrograde	14937 Jun 09 20:59	19° © 13'56	
-	14936 Jul 03 01:21	30° ℝ ∽		evening set	14937 Jun 14 14:28	17° © 15'46	
inferior conj	14936 Jul 05 11:12	26°5947'01	3°10'11	inferior conj	14937 Jun 19 20:47	10° © 56'44	3°04'01
minimum elong	14936 Jul 05 11:09	26°5947'12	3°09'15	minimum elong	14937 Jun 19 19:48	11° 5 00'08	3°02'56
min. Earth dist.	14936 Jul 05 23:24	26°904'46	0.68667 AU	min. Earth dist.	14937 Jun 19 19:46	11° © 00'18	0.69040 AU
morning rise	14936 Jul 10 16:34	20°526'36		morning rise	14937 Jun 25 00:58	4°9542'53	
direct	14936 Jul 15 23:04	18° © 08'26		direct	14937 Jun 29 19:01	2° 5 42'23	
desc. node	14936 Jul 22 05:14	20°538'01		morning max el	14937 Jul 09 03:48	8° © 11'30	22°02'22
morning max el	14936 Jul 26 14:51	24° © 29'53	23°30'30	desc. node	14937 Jul 09 02:30	8° © 08'17	
-	14936 Jul 31 13:15	$0^{\circ}\Omega$			14937 Jul 26 02:45	$0^{\circ}\Omega$	
	14936 Aug 21 19:32	0° m)		morning set	14937 Aug 10 22:41	24° Ω 08'17	
morning set	14936 Aug 30 11:07	14° m 01'12		-	14937 Aug 14 13:24	0° m/y	
max. Earth dist.	14936 Sep 03 10:39	20° m 49'51	1.39279 AU	max. Earth dist.	14937 Aug 16 12:25		1.41603 AU
	14936 Sep 08 14:06	0∘ <u>⊽</u>				=	
	-			superior conj	14937 Aug 24 06:55	16° Mp 32'55	-1°14'13
superior conj	14936 Sep 11 03:04	4° ≙ 41'03	-0°38'18	minimum elong	14937 Aug 24 12:45	16° m 58'39	1°13'43
minimum elong	14936 Sep 11 05:53	4° ≙ 54'09	0°37'49		14937 Aug 31 17:45	0∘ ⊽	
asc. node	14936 Sep 15 10:54	12° ≏ 52'46		asc. node	14937 Sep 02 07:28	2° ₽ 54'09	
	=				=		

ovening rise	14027 San 02 20:50	5° £ 47'07		minimum alana	14028 Aug 05 20:12	270 050:15	1016120
evening rise	14937 Sep 03 20:50			minimum elong	14938 Aug 05 20:12	27° Ω 59'15	1°46′28
avanina may al	14937 Sep 18 16:11 14937 Sep 19 19:53	0° ጤ 1° ጤ 13'45	18°13'10	avanina rica	14938 Aug 07 00:59	0° Т р 18° Т р29'16	
evening max el retrograde	14937 Sep 19 19.33 14937 Sep 27 01:33	4°M55'07	18 13 10	evening rise asc. node	14938 Aug 17 17:39 14938 Aug 20 04:03	22° Mp 46'06	
evening set	14937 Sep 27 01:33 14937 Sep 29 04:57	4°M36'20		asc. Houe	14938 Aug 20 04:03	0° ⊽	
desc. node	14937 Sep 29 04.37 14937 Oct 04 23:02	1°M13'08		evening max el	14938 Sep 03 08:56	0 = 14° £ 19'25	18°01'58
desc. node	14937 Oct 04 23:02 14937 Oct 06 10:00	1 IIC13 08 30°RΩ		retrograde	14938 Sep 09 23:07	14 ⊆ 1923 17° ⊆ 43'48	16 01 36
inferior conj	14937 Oct 06 10:00	29° £ 51'54	0°30'42	evening set	14938 Sep 12 10:11	17 ⊆ 43 48 17° ⊆ 14'57	
minimum elong	14937 Oct 06 12:41	29° £ 54'15	0°29'51	inferior conj	14938 Sep 19 02:16	17 ≅ 1437 12° ⊆ 10'41	0°50'16
min. Earth dist.	14937 Oct 00 12:41 14937 Oct 09 20:22	29 ⊆ 34 13 27° ⊆ 04'29	0.59078 AU	minimum elong	14938 Sep 19 02:10 14938 Sep 19 03:43	12 ⊆ 1041 12° ⊆ 07'06	0°49'51
morning rise	14937 Oct 13 17:03	21° ⊆ 04 29 24° ⊆ 20'25	0.39078 AU	desc. node	14938 Sep 21 20:29	9° £ 27'30	0 4931
direct	14937 Oct 20 03:38	22° Ω 27'39		min. Earth dist.	14938 Sep 22 03:19	9° ₽ 11'19	0.61366 AU
uncet	14937 Nov 03 06:28	0°M		morning rise	14938 Sep 25 18:28	6° £ 11'54	0.01300 AC
morning max el	14937 Nov 03 10:43	0°M10'21	27°35'19	direct	14938 Oct 02 10:16	3° ⊆ 56'03	
morning max ci	14937 Nov 24 17:45	0°×7	27 33 17	morning max el	14938 Oct 16 15:08	11° ⊆ 52'09	27°58'50
asc. node	14937 Nov 29 08:55	8° ∡ ³37'18		morning max ci	14938 Oct 30 23:24	0°M	27 38 30
morning set	14937 Dec 04 23:05	19° × 59'47		asc. node	14938 Nov 16 05:48	28°M21'00	
morning set	14937 Dec 04 23:03	0°る		asc. node	14938 Nov 17 01:34	0° √	
	14737 Dec 07 13.24	0 0		morning set	14938 Nov 19 01:02	4° ∡ *02'33	
superior conj	14937 Dec 11 22:04	5° ⋜ 16′05	1°32'54	max. Earth dist.	14938 Nov 24 16:51	16° √ 02'51	1.31411 AU
minimum elong	14937 Dec 11 22:04 14937 Dec 11 20:46	5°る08'47	1°33'48	max. Earth dist.	14936 NOV 24 10.31	10 🗴 09 31	1.31411 AO
max. Earth dist.	14937 Dec 11 20:40	4°る12'54	1.31085 AU	superior conj	14938 Nov 26 08:23	19° ∡ ¹48'13	1°22'11
evening rise	14937 Dec 11 10.47 14937 Dec 18 15:29	4 312 34 20° る 08'08	1.51065 AU	minimum elong	14938 Nov 26 06:22	19° x '4613	1°22'54
evening rise	14937 Dec 18 13.29 14937 Dec 23 09:34	20 3 08 08 08 08 08 08 08 08 08 08 08 08 08 0		minimum ciong	14938 Nov 30 22:40	0°る	1 22 34
desc. node	14937 Dec 23 09:34 14937 Dec 31 21:09	0 ∞ 15°≈29'08		evening rise	14938 Nov 30 22.40 14938 Dec 03 01:17	4° る 36'26	
desc. Hode	14937 Dec 31 21:09 14938 Jan 10 22:09	13 ≈ 29 08		evening rise	14938 Dec 03 01:17	4 3 30 20 0° ≈	
evening max el	14938 Jan 16 18:03	6°) 22'09	26°27'07	desc. node	14938 Dec 10 00:30	0 ∞ 3°≈51'22	
retrograde	14938 Jan 30 17:18	13° ¥ 29′29	20 27 07	evening max el	14938 Dec 18 18.02 14938 Dec 29 09:37	17°≈01'42	25004142
evening set	14938 Feb 06 02:54	13 X 2929		retrograde	14938 Dec 29 09:57 14939 Jan 12 04:57	23°≈56'57	23 04 42
min. Earth dist.	14938 Feb 10 07:34	9°) 13'04	0.58460 AU	evening set	14939 Jan 17 20:00	23°≈45'55	
inferior conj	14938 Feb 10 07.34 14938 Feb 13 10:50	6°) 52'45		min. Earth dist.	14939 Jan 22 21:42	22 ≈43 33 20°≈02'27	0.56500 AU
minimum elong	14938 Feb 13 10:50	6° X 37'37		inferior conj	14939 Jan 25 12:41	20 ≈02 27 18°≈20'26	
morning rise	14938 Feb 13 18:33	2° X 22'21	3 37 09	minimum elong	14939 Jan 25 21:39	18°≈05'52	
direct	14938 Feb 21 14:00 14938 Feb 23 14:00	2° X 08'40		morning rise	14939 Jan 23 21:39 14939 Feb 03 01:47	18 ≈03 32 14°≈11'53	4 36 30
asc. node	14938 Feb 25 14:00 14938 Feb 25 06:46	2° X 19'00		direct	14939 Feb 05 05:51	14 ≈11 33 13°≈58'30	
morning max el	14938 Mar 03 17:00	6° ₩ 09'16	18°26'11	asc. node	14939 Feb 03 03:31 14939 Feb 12 04:12	15 ≈36 30 16°≈25'47	
morning max er	14938 Mar 18 18:44	0°Υ	16 2011	morning max el	14939 Feb 12 04:12 14939 Feb 14 17:09	10 ≈2347 18°≈34'31	19°17'50
mamina sat	14938 Mar 19 13:02	1° Υ 27'25		morning max er	14939 Feb 23 03:30	0°)	19 1/30
morning set	14938 Mai 19 13.02	1 12/23		mamina aat	14939 Feb 23 03.30 14939 Mar 03 14:14	0 X 15° ¥ 52'27	
gunariar agni	14938 Mar 28 17:31	18° Ƴ 49'08	0°10'05	morning set	14939 Mar 10 16:50	13 χ 3227	
superior conj minimum elong	14938 Mar 28 18:13	18° Υ 52'22	0°09'44		14939 Mai 10 10.30	0 1	
		18° Υ 25'54	0 09 44	aumorior coni	14939 Mar 11 19:26	2° Y ′09'25	0°40'43
behind sun begin behind sun end	14938 Mar 28 12:28 14938 Mar 28 23:58	18 1 23 34 19° Y 18'47		superior conj	14939 Mar 11 19.20 14939 Mar 11 21:42	2 1 09 23 2° Υ 20'22	0°40'24
desc. node		19 1 1847 21° Υ 03'47		minimum elong desc. node		11° Υ 37'16	0 40 24
desc. node	14938 Mar 29 22:58	0° 8		max. Earth dist.	14939 Mar 16 19:29	11 γ 3/16 14° Υ 41'44	1.38354 AU
	14938 Apr 03 23:33		1 40C22 AII		14939 Mar 18 11:51	21° Υ 18'09	1.36334 AU
max. Earth dist.	14938 Apr 05 05:30	2° 8 09'25	1.40633 AU	evening rise	14939 Mar 22 05:10		
evening rise	14938 Apr 09 13:29	9° ႘ 27'22			14939 Mar 27 08:32	0°B 8°0	
evening max el	14938 Apr 22 17:01 14938 May 13 23:25	0° П 27° П 32'14	23030110	evening max el	14939 Apr 16 16:26 14939 Apr 26 12:51	0°Щ 11° Щ 25'42	24040157
evening max er	•	27 п 32 14 0° ©	23 30 10	•		11 П 23 42 18° П 18'36	24 49 37
	14938 May 16 15:31	3°5548'25		retrograde	14939 May 08 07:56	18°Щ18'36 17°Щ47'18	
asc. node	14938 May 24 03:40			asc. node	14939 May 11 00:52	17°Щ4/18 15°Щ54'45	
retrograde	14938 May 24 16:16	3°549'38		evening set	14939 May 14 00:31		0.69240.411
evening set	14938 May 29 21:21	1°537'01		min. Earth dist.	14939 May 18 11:20	10° ∏ 52'56	0.68340 AU
i. Earth diet	14938 May 31 12:30	30°R∏ 25°∏59122	0.69027 ATT	inferior conj	14939 May 19 14:07	9° Ⅲ 24'11 9° Ⅲ 31'14	2°20'24
min. Earth dist.	14938 Jun 03 16:25	25° Ⅱ 58'33	0.68927 AU	minimum elong	14939 May 19 12:00		2-18-59
inferior conj	14938 Jun 04 06:23	25° Ⅱ 10'32	2°47'26	morning rise	14939 May 24 23:44	3° Ⅱ 27'20	
minimum elong	14938 Jun 04 04:41	25° Ⅱ 16'25	2°46'09	direct	14939 May 28 17:31	2° Ⅱ 07'04	10024125
morning rise	14938 Jun 09 11:58	19° Ⅱ 04'41		morning max el	14939 Jun 04 23:40	6° Ⅱ 07'27	19°34'25
direct	14938 Jun 13 17:38	17° ∏ 24'08	20942104	desc. node	14939 Jun 12 20:45	15° Ⅱ 43'19	0.6
morning max el	14938 Jun 21 22:08	22° ∏ 04'02	20°42'04	greatest brilliancy	14939 Jun 17 15:24	22° Ⅱ 32'21	-0.6m
desc. node	14938 Jun 25 23:41	26° ∏ 35'14			14939 Jun 22 15:45	0°©	
	14938 Jun 28 16:37	0° ©		morning set	14939 Jun 30 14:35	12°506'20	
	14938 Jul 19 08:15	0°N			14939 Jul 12 02:59	0° N	1 45051 :==
morning set	14938 Jul 21 11:50	3° Ω 19'01	1 42500 : **	max. Earth dist.	14939 Jul 12 11:08	0° Ω 32'05	1.45051 AU
max. Earth dist.	14938 Jul 29 20:54	16° Ω 32'54	1.43598 AU		14020 * 1 46 46 **	70 00000	200012.5
	1.1000 1 0 0 0 0 0 0	0.000	1046:21	superior conj	14939 Jul 16 18:41	7°Ω23'03	
superior conj	14938 Aug 05 12:36	27° Ω 27'33	-1°46'34	minimum elong	14939 Jul 16 23:50	7° Ω 43'39	2°09'13

evening rise	14939 Jul 30 18:16	0° m 17'55		superior conj	14940 Jun 25 07:10	16° © 38'29	-2°13'10
	14939 Jul 30 13:59	0° ™		minimum elong	14940 Jun 25 05:04	16° 5 30'17	2°14'08
asc. node	14939 Aug 07 00:39	12° m 23'22			14940 Jul 03 19:20	$0^{\circ}\Omega$	
evening max el	14939 Aug 17 23:35	27° m 46'51	18°09'30	evening rise	14940 Jul 10 18:32	11° Ω 04'22	
	14939 Aug 20 17:35	0∘ 亚		greatest brilliancy	14940 Jul 17 07:40	21° Q 31'13	-0.9m
retrograde	14939 Aug 24 08:15	1° ≏ 07'51			14940 Jul 22 18:26	0° ™	
evening set	14939 Aug 27 03:48	0° ჲ 25'47		asc. node	14940 Jul 23 21:19	1°M/40'28	
	14939 Aug 27 22:25	30° ₽, M)		evening max el	14940 Jul 31 12:44	11°M)28'26	18°34'47
inferior conj	14939 Sep 02 06:19	25° m 04'20	1°50'27	retrograde	14940 Aug 07 00:55	14° m 59'03	
minimum elong	14939 Sep 02 08:41	24° Mp 57'46	1°49'33	evening set	14940 Aug 10 05:28	14° Mp 01'25	
min. Earth dist.	14939 Sep 04 20:16	22° m/12'59	0.63578 AU	inferior conj	14940 Aug 15 22:02	8° Mp 24'47	2°31'45
morning rise	14939 Sep 08 11:39	18° Mp 48'27		minimum elong	14940 Aug 16 00:14	8° Mp 18'04	2°30'47
desc. node	14939 Sep 08 17:59	18° m) 36'32		min. Earth dist.	14940 Aug 17 22:19	5° m 58'00	0.65533 AU
direct	14939 Sep 15 02:48	16° Mp 16'37	27044114	morning rise	14940 Aug 21 17:51	2° m/00'49	
morning max el	14939 Sep 29 00:19	24° m 17'04	2/*44*14	daga mada	14940 Aug 24 23:25	30°R Ω 29° Ω 45'29	
	14939 Oct 04 04:26 14939 Oct 24 09:00	0° ሆ 0° 亚		desc. node direct	14940 Aug 25 15:30 14940 Aug 28 03:35	29° Ω 22'11	
morning sat	14939 Nov 02 19:29	17°ML42'02		direct	14940 Aug 31 12:36	0°m)	
morning set asc. node	14939 Nov 02 19.29 14939 Nov 03 02:35	17 11642 02 18°ML 17'40		morning max el	14940 Aug 31 12.36 14940 Sep 10 11:24	עור ט 7° Mo 13'40	26057120
max. Earth dist.	14939 Nov 07 16:58	27°M48'54	1.32284 AU	morning max er	14940 Sep 10 11:24 14940 Sep 28 02:54	0∘ ⊽	20 37 20
max. Earth dist.	14939 Nov 08 17:33	27 11G46 54 0° ⊼ ¹	1.32264 AU		14940 Oct 15 16:51	0° m .	
	147371101 00 17.33	· ^		morning set	14940 Oct 16 03:30	0°M50'59	
superior conj	14939 Nov 10 15:33	4° ∡ *08'14	1°05'34	asc. node	14940 Oct 19 23:17	8°M22'15	
minimum elong	14939 Nov 10 13:13	3° × 755'37	1°06'03	max. Earth dist.	14940 Oct 20 07:55	9°M05'46	1.33708 AU
evening rise	14939 Nov 17 12:15	19° х 06'05					
<i>8</i> 11	14939 Nov 22 18:14	0°ප		superior conj	14940 Oct 24 17:18	18°M09'53	0°43'03
desc. node	14939 Dec 05 15:03	21° る 14'37		minimum elong	14940 Oct 24 15:17	17° M 59'19	0°43'22
evening max el	14939 Dec 10 19:31	27° ට 05'31	23°24'13	6	14940 Oct 30 06:38	0° ∡ ¹	
•	14939 Dec 14 05:30	0° ≈		evening rise	14940 Oct 31 22:30	3° ∡ ′32′00	
retrograde	14939 Dec 24 03:51	3° ≈ 42'53			14940 Nov 15 09:44	ರ∘ರ	
evening set	14939 Dec 28 14:12	3° ≈ 00'16		evening max el	14940 Nov 21 08:12	7° る 07'34	21°43'24
	14940 Jan 04 00:00	30°Ŗる		desc. node	14940 Nov 21 12:10	7° る 17'16	
min. Earth dist.	14940 Jan 04 06:01	29° る 51'21	0.55073 AU	retrograde	14940 Dec 03 15:53	13° る 13'24	
inferior conj	14940 Jan 05 18:29	28° る 58'16	-5°53'19	evening set	14940 Dec 06 18:15	12° る 51'45	
minimum elong	14940 Jan 05 22:39	28° る 52'13	5°52'03	inferior conj	14940 Dec 15 11:13	9° ට 00'02	-5°51'55
morning rise	14940 Jan 14 08:40	25° පි 06'17		minimum elong	14940 Dec 15 06:14	9° る 07'00	5°50'26
direct	14940 Jan 17 02:28	24° ろ 48'09		min. Earth dist.	14940 Dec 15 11:51	8° る 59'09	0.54452 AU
morning max el	14940 Jan 28 03:46	0° ≈ 07'08	20°32'37	morning rise	14940 Dec 23 18:56	5° る 12'03	
	14940 Jan 28 00:47	0° ≈		direct	14940 Dec 27 11:26	4° る 42'17	
asc. node	14940 Jan 30 01:35	2°≈06'28		morning max el	14941 Jan 08 23:40	10°る44'27	22°08'51
morning set	14940 Feb 15 21:23	0°) 31'17		asc. node	14941 Jan 15 22:55	19° る 02'41	
	14940 Feb 15 15:19	0° \		. ,	14941 Jan 22 16:01	0° ≈	
	14040 E-1- 22 10:00	1601/02/27	1°04'48	morning set	14941 Jan 30 07:57	15° ≈ 15'36	
superior conj	14940 Feb 23 10:06	16° 米 03'37 16° 米 16'57	1°04'48 1°04'46	gunariar agni	14041 Fab. 06.00:47	0° ¥ 20'19	102212
minimum elong max. Earth dist.	14940 Feb 23 12:44	26° ¥ 43'07	1.36149 AU	superior conj minimum elong	14941 Feb 06 09:47	0° ∺ 31'58	1°22'33
max. Earm dist.	14940 Feb 28 19:22 14940 Mar 01 12:46	20 π 43 07 0° Υ	1.30149 AU	minimum elong	14941 Feb 06 11:59 14941 Feb 06 05:56	0 X 3138	1 22 33
desc. node	14940 Mar 02 16:02	2° Υ '07'27		max. Earth dist.	14941 Feb 10 08:43		1.34224 AU
evening rise	14940 Mar 03 15:36	3° Y ′56'07		evening rise	14941 Feb 14 17:04	17° ¥ 10′25	1.54224710
e vening rise	14940 Mar 19 07:23	0°8		desc. node	14941 Feb 17 12:36	22°\H29'31	
evening max el	14940 Apr 08 02:24	25° 8 17'35	26°01'21	dese. Hode	14941 Feb 21 16:45	0°Υ	
	14940 Apr 13 17:42	0°II			14941 Mar 13 15:33	0°8	
retrograde	14940 Apr 20 19:00	2° Ⅱ 34'19		evening max el	14941 Mar 21 16:15	8° 8 59'48	26°57'03
evening set	14940 Apr 26 22:18	0° Ⅱ 03'40		retrograde	14941 Apr 04 00:17	16° 8 27'51	
asc. node	14940 Apr 26 22:09	0° Ⅱ 03'58		evening set	14941 Apr 10 12:43	13° 8 55'59	
	14940 Apr 27 00:03	30°R₩		asc. node	14941 Apr 13 19:33	10° 8 48'21	
min. Earth dist.	14940 May 01 02:30	25° 8 37'22	0.67303 AU	min. Earth dist.	14941 Apr 14 11:44	10° 8 03'24	0.65844 AU
inferior conj	14940 May 02 18:01	23° 8 33'49	1°42'26	inferior conj	14941 Apr 16 15:46	7° 8 33'09	0°52'37
minimum elong	14940 May 02 15:57	23° 8 40'17	1°41'02	minimum elong	14941 Apr 16 14:26	7° 8 37'00	0°51'36
morning rise	14940 May 08 10:21	17° 8 47'12		morning rise	14941 Apr 22 17:34	1° 8 58'34	
direct	14940 May 11 17:10	16° 8 45'47		direct	14941 Apr 25 14:29	1° 8 13'35	
morning max el	14940 May 18 08:23	20° 8 19'11	18°42'16	morning max el	14941 May 01 22:38	4° 8 32'28	18°06'53
	14940 May 26 02:26	0°Щ		desc. node	14941 May 16 14:35	25° 8 21'54	
desc. node	14940 May 29 17:43	5° Ⅲ 21'48			14941 May 19 11:30	0°II	
morning set	14940 Jun 09 03:42	21° Ⅱ 27'40		morning set	14941 May 20 18:11	2° Ⅱ 04'00	
	14940 Jun 14 15:02	0°95		_			
max. Earth dist.	14940 Jun 24 05:23	14° © 57'46	1.45828 AU	superior conj	14941 Jun 04 16:42	25° Ⅱ 52'38	-1°57'41

minimum elong	14941 Jun 04 08:32	25° ∏ 20′38	1°58'07	desc. node	14942 May 03 11:19	15° 8 37'17	
max. Earth dist.	14941 Jun 07 01:37	29° II 35'27	1.45858 AU	dese. Hode	14942 May 12 02:15	0°Ⅱ	
man zam usu	14941 Jun 07 07:54	0.20 2001	1.10000110		1191211111912 02:10	~ _	
evening rise	14941 Jun 20 19:24	20° © 54'57		superior conj	14942 May 15 15:45	5° Ⅱ 47'45	-1°26'40
	14941 Jun 26 16:48	$0^{\circ}\Omega$		minimum elong	14942 May 15 07:35	5° Ⅱ 14'44	1°26'34
greatest brilliancy	14941 Jul 02 22:57	9° Ω 30′19	-0.7m	max. Earth dist.	14942 May 20 21:23	14° Ⅲ 09′16	1.45144 AU
asc. node	14941 Jul 10 18:05	20° Ω 30′19		evening rise	14942 May 31 07:01	0°ഇ18'55	
evening max el	14941 Jul 14 21:52	25° Ω 17'46	19°16'55		14942 May 31 02:04	0ංම	
retrograde	14941 Jul 21 21:54	29° Ω 10′50			14942 Jun 20 11:21	0 ° Ω	
evening set	14941 Jul 25 12:01	27° Ω 56'07		asc. node	14942 Jun 27 14:56	8° Ω 42'59	
inferior conj	14941 Jul 30 22:02	22° Ω 05'44	2°57'02	evening max el	14942 Jun 28 01:22	9° Ω 09'26	20°14'25
minimum elong	14941 Jul 30 23:30	22°Ω00'56	2°56'07	retrograde	14942 Jul 05 20:45	13° Ω 36'37	
min. Earth dist.	14941 Aug 01 07:59	20°Ω15'04 15°Ω40'10	0.67108 AU	evening set	14942 Jul 09 21:02	12° Ω 04'22 6° Ω 01'27	2000140
morning rise direct	14941 Aug 05 10:22 14941 Aug 11 11:05	13° Ω 03'57		inferior conj minimum elong	14942 Jul 15 03:32 14942 Jul 15 04:03		3°07'54
desc. node	14941 Aug 11 11:03	$13^{\circ} \Omega 03^{\circ} 13^{\circ} \Omega 08'25$		min. Earth dist.	14942 Jul 15 23:26	4°Ω53'34	0.68235 AU
morning max el	14941 Aug 23 22:28	20°Ω31'00	25°46'44	morning rise	14942 Jul 20 10:45	29°©38'28	0.08233 AU
morning max ci	14941 Sep 01 02:33	0° m)	23 4044	morning rise	14942 Jul 20 01:24	30°RS	
	14941 Sep 21 06:31	0∘ ⊽		direct	14942 Jul 26 00:10	27°9512'17	
morning set	14941 Sep 28 21:38	13° ≏ 21'28		desc. node	14942 Jul 30 10:24	28°927'23	
max. Earth dist.	14941 Oct 02 13:17	20° ♀ 10'32	1.35632 AU		14942 Aug 01 20:24	0°N	
asc. node	14941 Oct 06 19:55	28° ≏ 30'50		morning max el	14942 Aug 06 09:08		24°21'57
	14941 Oct 07 13:46	0° M.		C	14942 Aug 26 08:08	0° m)	
				morning set	14942 Sep 10 21:36	25° m 03'13	
superior conj	14941 Oct 08 10:57	1°M46'38	0°14'58		14942 Sep 13 17:09	0∘ ⊽	
minimum elong	14941 Oct 08 10:04	1°M42'11	0°15'14	max. Earth dist.	14942 Sep 14 12:37	1° ≏ 27'06	1.37908 AU
behind sun begin	14941 Oct 08 08:03	1° M 31'57					
behind sun end	14941 Oct 08 12:06	1°M52'25		superior conj	14942 Sep 21 17:07	14° ≏ 49'41	-0°17'54
evening rise	14941 Oct 16 06:03	17° ™ 49'21		minimum elong	14942 Sep 21 18:19	14° ≏ 55'29	0°17'31
	14941 Oct 22 08:58	0° ∡ ¹		asc. node	14942 Sep 23 16:29	18° ≏ 39'17	
evening max el	14941 Nov 03 08:22	17° ∡ ¹42'24	20°16'56		14942 Sep 29 10:00	0°M	
desc. node	14941 Nov 08 09:24	21° x 34'05		evening rise	14942 Sep 30 08:23	1°M51'24	10011120
retrograde	14941 Nov 14 03:08	23° × 04'25		evening max el	14942 Oct 16 22:50	29°M05'16	19°11'38
evening set	14941 Nov 16 07:25	22° x 52'17	4950155		14942 Oct 17 21:49	0° द्र ⁷	
inferior conj	14941 Nov 25 04:22 14941 Nov 24 18:21	18° х 56′09 19° х 10′57		retrograde desc. node	14942 Oct 26 02:44 14942 Oct 26 06:44	3° х ⁷ 41′23 3° х ⁷ 41′18	
minimum elong min. Earth dist.	14941 Nov 24 18:21 14941 Nov 26 18:13	19 x ·1037 18° x ¹ 00'17	0.54767 AU	evening set	14942 Oct 26 06.44 14942 Oct 27 23:41	3° ₹ ′30′39	
morning rise	14941 Dec 03 04:40	14° × 53'33	0.54707 AO	evening set	14942 Nov 04 10:55	30°RM	
direct	14941 Dec 07 21:23	14° ₹ 05'55		inferior conj	14942 Nov 05 11:34	29°M18'53	-3°12'00
morning max el	14941 Dec 21 09:54	20° х 44′38	23°57'46	minimum elong	14942 Nov 05 03:35	29°M32'18	3°08'18
5 5	14941 Dec 29 06:31	8°0		min. Earth dist.	14942 Nov 08 04:24	27°M30'13	0.55961 AU
asc. node	14942 Jan 02 20:10	6° ප 57'16		morning rise	14942 Nov 13 05:00	24°M44'12	
morning set	14942 Jan 14 19:52	29° る 59'57		direct	14942 Nov 18 18:03	23°M33'31	
	14942 Jan 14 19:53	0° ≈			14942 Dec 02 01:46	0° ∡ ¹	
				morning max el	14942 Dec 02 19:52	0° ∡ ¹42'15	25°42'31
superior conj	14942 Jan 21 15:37	14° ≈ 51'44	1°33'05	asc. node	14942 Dec 20 17:18	25° ₹ ³35′09	
minimum elong	14942 Jan 21 16:57	14° ≈ 59'01	1°33'48		14942 Dec 23 02:38	0°ಕ	
max. Earth dist.	14942 Jan 24 05:57	20°≈27'58	1.32708 AU	morning set	14942 Dec 30 07:21	14° る 38'53	
	14942 Jan 28 19:48	0°){			14042 7 06 01 14	200720145	1005146
evening rise	14942 Jan 29 06:13	0°) € 52'35		superior conj	14943 Jan 06 01:14	29°る30'45 29°る32'20	
desc. node	14942 Feb 04 09:11 14942 Feb 14 16:22	12°) 39'02 0° Υ		minimum elong	14943 Jan 06 01:31 14943 Jan 06 06:30	29° ⊘ 32′20	1°38'40
evening max el	14942 Mar 04 05:15	22° Υ 21'19	27°20'31	max. Earth dist.	14943 Jan 07 09:43	0 ≈ 2°≈30'35	1.31662 AU
retrograde	14942 Mar 17 22:48	29° Υ 50'31	27 27 31	evening rise	14943 Jan 13 04:05	14°≈54'58	1.51002 AC
evening set	14942 Mar 24 17:34	27° Y '23'48		evening rise	14943 Jan 20 20:42	0° ∀	
min. Earth dist.	14942 Mar 28 12:56	24° Υ '01'55	0.64024 AU	desc. node	14943 Jan 22 05:51	2° ¥ 30'13	
inferior conj	14942 Mar 31 04:40	21° Y °15'28			14943 Feb 09 18:41	0° Υ	
minimum elong	14942 Mar 31 04:58	21° Y °14'40	0°09'59	evening max el	14943 Feb 14 15:11	5° Y ′09′05	27°32'20
transit middle	14942 Mar 31 04:58	21° Y °14'40	0°09'59	retrograde	14943 Feb 28 13:37	12° Y ′33'12	
transit begin	14942 Mar 31 02:32	21° Y ′21′04		evening set	14943 Mar 07 10:15	10° Ƴ 18'54	
transit end	14942 Mar 31 07:25	21° Y ′08'16		min. Earth dist.	14943 Mar 11 04:31	7° Y 22'14	
asc. node	14942 Mar 31 17:00	20° Y '43'17		inferior conj	14943 Mar 14 05:34	4° Y 32'53	-1°24'49
morning rise	14942 Apr 06 18:36	15° Y ′55′24		minimum elong	14943 Mar 14 08:31		1°23'35
direct	14942 Apr 09 06:52	15° Y °23'42		asc. node	14943 Mar 18 14:27	0° Y 55′00	
morning max el	14942 Apr 15 15:56	18° Ƴ 39'58	17°48'41		14943 Mar 20 04:29	30° ₹	
	14942 Apr 24 02:19	0°8		morning rise	14943 Mar 21 09:48	29°) € 30'16	
morning set	14942 May 02 12:02	13° 8 58'55		direct	14943 Mar 23 14:56	29° ∺ 08'29	

May 1, 1942, 1942, 1942, 1943, 1944, 194	morning max el	14943 Mar 26 23:28 14943 Mar 30 09:18	0° Υ 2° Υ 33'23	17°48'14	morning set desc. node	14944 Mar 28 13:22 14944 Apr 06 04:33	10° Υ 40'39 26° Υ 35'04	
dees, deep 1891 Agr 2 00 73.8 6950 Agr 2 01 33.9 1891 Agr 2 06 13.9 1891 Agr 2 06 13.9 1892 Agr 2 01 30.9 1893 Agr 2 01 30.9 1892 Agr 2 01 30.9	•			17 40 14	dese. Hode	14744 Арт 00 04.33	20 13304	
Semicros of the part		14943 Apr 16 21:35			superior conj	14944 Apr 07 10:46		-0°10'15
	desc. node	14943 Apr 20 07:58	6° 8 03'16		· ·	-		0°10'29
minimachone, max. Farth dist 1904 May 15 0.0945 60 CH2006 6.13766 AU max. Farth dist 1904 May 15 0.09 0°C	gungrier coni	14042 Amr 26 12:20	160847122	0040120	· ·	•		
max Farth dist. 1948 May 0 1301.2 29 H329 May 10 1212 9 H358 May 10 1212 1 H348 May 10 1210 0 GB 0 H348 May 10 1210 0 GB 0 GB 0 H348 May 10 1210 0 GB		•			bening sun eng	-		
1948 May 10 1949 1978 1978 1978 1949 Aar 20 1942 1972 1978 1949 Aar 20	C	-	_		max. Earth dist.	-		1.41872 AU
""" (1945) May 2 6 0.31 (1958) 0°95 (2918) Centing max el (1944) May 17 (13.10) """ (1972) "" (1972) 23 (2918) 22 (2138) exende (1944) May 18 (1951) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 22 (2314) 23 (2314)						*		
evening max el 4945 lm 10 2253 23*290/12 21*2456 evening max el 4944 lm 21 5257 52*271	evening rise	14943 May 10 21:42	9°Ⅲ58′24			14944 Apr 26 06:58	$\Pi^{\circ}0$	
ase nede 149.3 m. la 1 11-54 26°800613 ase node 1494 May 31 0.87 corrector 30 2°820243 corrector and 1494 Jun 24 0633 26°80147 corrector corrector continued 1494 Jun 24 0633 26°80147 corrector continued 1494 Jun 29 11-47 20°80752 3°851 micrisor conj 1494 Jun 12 10-12 4°82070 2°8514 mini Earth dist. 14943 Jun 29 11-47 20°80752 3°8510 mini Earth dist. 14944 Jun 12 1532 4°82157 0.60050 AU mini Earth dist. 14943 Jul 19 10-48 1799378 30°8584 mini Earth dist. 14944 Jun 18 0.553 3°87107 600050 AU diece 14943 Jul 19 0.01 17542 18°93718 morning control of circle 14944 Jun 18 0.03 3°87072 18°2070 3°80700 3°80700 3°80700 18°20710 4°80700 3°80700 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Marchange 14943 m 19 933 28°29 10°5 covening set 14944 m 12 12°1 14°1 12°10 14°1 14°10	•			21°24'36	=	•		22°43'18
Continger 14943 Jun 2 40 633 26/92147 1908 190						•		
inferior conj 14943 Jun 29 12-14 20°820752 39°8531 inferior conj 14944 Jun 12 20-15 49°22445 25°814 minimamel cong min Farth dist 14943 Jul 29 18-40 19°824526 0.68884 AU minimamel cong 14944 Jun 12 15:32 4°25425 0.6905 AU direct 14943 Jul 20 16-18 15°25970 morning framed 14944 Jun 18 02:22 28°1002 14944 Jun 20°320 7°27 14944 Jun 20°320 7°27 14944 Jun 20°320 15°2710 14944 Jun 20°324 0°22 12°2617 14944 Jun 20°324 0°22 12°2617 14944 Jun 20°324 0°22 12°2617 14945 Aug 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°22710 20°32 12°2271	•				-			
minimal elong 14943 Jun 29 11-47 20°820°8 30°752 minimamelong 14944 Jun 12 45°245°8 28°750° Al moming rise 14943 Jul 04 148 13°250°04 8884 AU minimam elong 14944 Jun 16 55°25 70°80°04	•			3°08'51	-			2°58'14
morning rise 41,943 Jul of 1648 18°250704 Hower officed 14944 Jul 18 0.555 30°RII direct 14943 Jul 19 0.754 11°639718 direct 14944 Jul 28 0.32 28°I1716 - morning max (1943) Jul 19 0.93 17°03985 25°2529 Howard 14944 Jul 29 1.31 0°250 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 21°26170 14944 Jul 29 1.30 0°30 0°30 21°26170 21°26170 14944 Jul 20 0.30 0°30 0°30 18°26170 14944 Jul 20 0.30 0°30 0°30 18°26170 14944 Jul 20 0.30 0°30 0°30 18°26170 <td></td> <td>14943 Jun 29 11:47</td> <td>20°509'28</td> <td>3°07'52</td> <td></td> <td>14944 Jun 12 20:45</td> <td>4°©24'45</td> <td>2°57'05</td>		14943 Jun 29 11:47	20°509'28	3°07'52		14944 Jun 12 20:45	4° © 24'45	2°57'05
direct 404 Jul 09 17.54 1753918 moming inse 1494 Jul 18 02.32 28 II/971 control morning max 61 1494 Jul 19 19.03 1752853 22*2529 morning max 61 14944 Jul 19 11.34 125210 21°26720 morning max 61 14943 Jul 29 09.04 0°8 condended 14944 Jul 19 11.34 125210 21°26721 21°2674 morning sct 14943 Aug 22 23.14 5°84717 morning sct 14944 Aug 12 03.03 15°0282 12°2674 superior conj 14943 Sep 04 17.55 27°81019 5°5377 14944 Aug 12 03.09 15°0283 12°8210 superior conj 14943 Sep 05 20.52 0°4 27°81019 5°5376 14944 Aug 16 02.36 8°833 4 12°846 ass node 14943 Sep 10 13.03 8°4427 minimum clong 14944 Aug 16 02.36 8°833 4 12°821 evening risc 14943 Sep 10 13.03 8°4427 minimum clong 14944 Aug 16 02.30 9°80871 12°821 evening risc 14943 Sep 21 03.33 17°8132 18°282 14943 Sep 21 03°8 12°821 12°821	min. Earth dist.	14943 Jun 29 18:40	19° 5 °45'26	0.68884 AU	min. Earth dist.	14944 Jun 12 15:32		0.69050 AU
desc. node 1943 Jul 17 07:42 15°20 700 17°23873 22°5229 1944 Jun 22 15:10 26°11716 1943 Jul 19 10:30 17°23873 22°5229 1944 Jun 29 23:36 0°20 1944 Jun 19 10:40 1962 1945 Jul 19 10:40 1945 Jul 19	=							
moming max el 1494 Jul 19 20.39 17°938'53 22°5229 moming max el 1494 Jul 29 23.36 0°20 21°2677 1494 Jul 29 131.36 17°2217 21°2677 1494 Jul 29 131.36 17°2217 1494 Jul 29 131.36 18°2217					•			
May 1				22052120	direct			
May 1	morning max er			22 32 29	morning max el			21°26'47
max. Earth dist. 14943 Aug 27 11:45 3**® 13*1 1.40293 AU moming set (1994 Aug 02 0:035) 15**C28*23* 42050 AU 42050 AU 42040 Aug 02 0:035 15**C28*23* 42050 AU 4205					Č			21 20 17
superior conj 1494 Sep 04 07-48 27°Bj019 0°5337 max. Earth dist. 14944 Aug 10 23°C 0°T 12874 Aug 10 23°C 28°Bj3712 12874 Aug 10 23°C 28°Bj3712 12874 Aug 10 23°C 28°Bj3712 12874 Aug 10 28°Bj3712 12874 Aug 10 28°Bj3712 12874 Aug 10 28°Bj3712 12874 Aug 10 28°Bj3712 128°Bj3712 128°Bj3712 128°Bj3712 128°Bj372 28°Bj3732 128°Bj372 128°Bj373 128°Bj373 </td <td>morning set</td> <td>14943 Aug 22 23:16</td> <td>5° m 47'17</td> <td></td> <td></td> <td>14944 Jul 22 22:34</td> <td>$0^{\circ}\Omega$</td> <td></td>	morning set	14943 Aug 22 23:16	5° m 47'17			14944 Jul 22 22:34	$0^{\circ}\Omega$	
superior conj 14943 Sep 04 07.48 27° p1019 0°5337 Hayda Sep 05 20.52 0°40 18943 Sep 05 20.52 0°40 superior conj 14944 Aug 16 02.36 8° p38°34 -1°28′46 asc. node 14943 Sep 10 13.03 8° £4472 minimum clong 14944 Aug 16 09.29 9° p08°13 12°821 evening rise 14943 Sep 10 12.03 8° £4472 evening rise 14944 Aug 27 09.27 28° p30°12 18° 28° 21 18° 49° 40° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2	max. Earth dist.	14943 Aug 27 11:45	13°Mp21'31	1.40293 AU	morning set	_	15° Ω 28'32	
minimum elong					max. Earth dist.			1.42505 AU
asc. node 14943 Sep 16 20:52 0°A superior conj 14944 Aug 16 0:26 8°B3834 - 1°28'11 1°28'14 evening rise 14943 Sep 14 02:31 15°A30'52 evening rise 14944 Aug 27 08:27 28°B3712 - evening max el 14943 Sep 12 12:39 0°R sc. node 14944 Aug 28 02:43 0°A - evening max el 14943 Sep 30:10 15°R1332 evening max el 14944 Aug 28 02:43 0°A - evening set 14943 Oct 07 21:09 15°R1332 evening set 14943 Oct 17 15:56 10°R2653 -12614 inferior conj 14944 Sep 19 0:42 27°A3704 18°0670 desc. node 14943 Oct 17 15:56 10°R2653 -12614 inferior conj 14944 Sep 28 17:48 22°A2112 0°0625 miniferior conj 14943 Oct 17 12:33 10°R2653 -12614 inferior conj 14944 Sep 28 17:48 22°A2112 0°0625 minimium elong 14943 Oct 25 0:55 5°R1436 transit ted 14944 Sep 28 17:48 22°A2112 0°6625 minimium elong 14943 Nov 20 3:13 14°		*				14944 Aug 10 23:59	0° m)	
asc. node 14943 Sep 10 13:03 8°E4427 minimum elong 14944 Aug 10 60:29 9°R0813 12821 Percenting recording recording recording recording recording recording recording recording and all plays Sep 21 21:39 15°E3957 Percenting recording re	minimum elong	•		0°53'07	gunarior aoni	14044 Aug 16 02:26	00 m ₁20121	1020146
evening rise	asc node	•			1 3	•		
14943 Sep 21 23:39 0°R 1804 Sep 30 01:22 11°R1542 18°28'27 14944 Aug 27 09:37 28°R94'227 17°C 14944 Aug 28 02:40 0°C 12°C 11°C 18°C 14944 Aug 28 02:40 0°C 11°C 18°C 18°C 18°C 14944 Aug 28 02:40 0°C 11°C 18°C		-				•		1 2021
retrograde 14943 Oct 07 21:09 15°III.332 evening max el 14944 Sep 12 11:50 24° £04'41 18'06'07 evening set 14943 Oct 09 20:40 14'III.59'02 eretrograde 14944 Sep 19 09:42 27° £37'04 Oct 09 20:40 13°III.36'43 evening set 14944 Sep 21 16:09 27° £14'30 Oct 09 20:40 13°III.36'43 evening set 14944 Sep 21 16:09 27° £14'30 Oct 09 20:40 Inferior conj 14943 Oct 17 15:56 10′III.26'33 10′III.26'33 12°26'14 inferior conj 14944 Sep 28 17:35 22° £21'12 0°06'12 minimum elong 14943 Oct 17 12:33 10′III.33'32 12°26'14 minimum elong 14944 Sep 28 17:48 22° £21'12 0°06'12 minimum elong 14943 Oct 20 21:22 7°III.55'33 0.57822 AU transit medide 14944 Sep 28 17:48 22° £21'12 0°06'25 min. Earth dist. 14943 Oct 31 05:21 3°III.36'5 5°III.14'36 transit begin 14944 Sep 28 10:43 22° £21'12 0°06'25 direct 14943 Oct 31 05:21 3°III.36'5 5°III.14'36 transit begin 14944 Sep 28 10:43 22° £21'12 0°06'25 direct 14944 Sep 28 10:53 22° £20'31 22° £20'31 direct 14944 Sep 28 10:53 22° £20'31 22° £20'31 direct 14944 Sep 28 10:53 22° £20'31 22° £20'31 direct 14944 Sep 29 10:31 22° £20'31 22° £20'31 direct 14944 Sep 29 10:31 22° £20'33	C	-	0° M		=	•		
evening set 14943 Oct 0 20:40 14°m.5902 retrograde 14944 Sep 19 09:42 27°m.3704 1404 Sep 10 1404 Sep	evening max el	14943 Sep 30 01:22	11°M15'42	18°28'27		14944 Aug 28 02:43	0∘ ⊽	
desc. node	•				•	•		18°06'07
Inferior conj I4943 Oct 17 15:56 10°R2673 -1°26'14 inferior conj I4944 Sep 28 17:38 22°Ω21'12 0°06'12 minimum elong I4943 Oct 17 12:33 10°R3373 12°41'8 minimum elong I4944 Sep 28 17:48 22°Ω21'12 0°06'25 minimum elong I4943 Oct 20 21:22 7°R.55'33 5.57822 AU transit middle I4944 Sep 28 17:48 22°Ω21'12 0°06'25 morning rise I4943 Oct 21 05:25 5°RL436 transit begin I4944 Sep 28 16:44 22°Ω28'13 22°Ω21'13 0°06'25 morning max el I4943 Nov 14 12:18 11°RL09'55 27°04'07 desc. node I4944 Sep 29 16:31 22°Ω21'13 22°Ω21'13 22°Ω21'14 14943 Nov 14 12:18 11°RL09'55 27°04'07 desc. node I4944 Oct 01 12:57 19°Ω26'16 0.60044 AU asc. node I4943 Dec 07 14:19 I4°A5'13 morning rise I4944 Oct 05 16:11 16°Ω37'19 16°Ω37'19 morning set I4943 Dec 14 16:36 29°₹07'29 136'24 morning max el I4944 Oct 12 05:53 I4°Ω3'38 14°Ω3'38 14944 Nov 12 05:33 14°Ω3'38 14°Ω3	•				C	•		
minimum elong				1°26'14	-	•		0°06'12
min. Earth dist. 4943 Oct 20 21:22 7° 18.55'33 0.57822 AU transit middle 14944 Sep 28 17:48 22° £21'12 0°06'25 morning rise 14943 Oct 21 05:25 5° 18.14'36 transit begin 14944 Sep 28 14:44 22° £28'13 42° 42' 42' 42° 42' 42' 42° 42' 42' 42' 42' 42' 42' 42' 42' 42' 42'	•				3	•		
direct 14943 Oct 31 05:21 3°m3656 transit end 14944 Sep 28 20:52 22°£111 Cape 30:31 22°£0331 Cape 30:31	•				•	•		
Morning max el 14943 Nov 14 12:18 11° 11° 11° 11° 11° 11° 11° 11° 11° 1	morning rise	14943 Oct 25 00:55	5° ™ 14'36		transit begin	14944 Sep 28 14:44	22° ≏ 28'13	
morning set 14943 Nov 29 02:54 0°\$\frac{1}{2} 1494 Not 20 12:57 19°\$\triangle 26'16 0.60044 AU asc. node 14944 Dec 07 14:19 14°\$\frac{1}{2} 16.36 29°\$\frac{1}{2} 0°\$\frac{1}{2} 0°\$1	direct	14943 Oct 31 05:21				-	22° ≏ 14'11	
asc. node	morning max el			27°04'07		-		
morning set 14943 Dec 14 16:36 12:23 14:94 16:36 14:94 15:02:23 16:95 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 16:36 14:94 16:36 14:94 16:36 16:36 14:94 16:36 14:	1							0.60044 AU
14943 Dec 15 02:23 0°B 175008 14944 Nov 02 06:17 0°M					•			
superior conj	morning set							27°50'08
minimum elong 14943 Dec 21 11:49 14°\$07'12 1°37'20 asc. node 14944 Nov 23 11:14 4° x³ 18'58 max. Earth dist. 14943 Dec 21 17:05 14°\$36'40 1.31134 AU morning set 14944 Nov 27 21:48 13° x² 21'33 1.31148 AU morning rise 14944 Dec 04 00:38 26° x³ 39'33 1.31148 AU max. Earth dist. 14944 Dec 04 00:38 26° x³ 39'33 1.31148 AU max. Earth dist. 14944 Dec 04 00:38 26° x³ 39'33 1.31148 AU max. Earth dist. 14944 Dec 04 00:38 26° x³ 39'33 1.31148 AU max. Earth dist. 14944 Dec 04 23:50 28° x³ 48'54 1°29'05 14944 Jan 14 02:11 0° ★ minimum elong 14944 Dec 04 22:11 28° x³ 39'43 1°29'55 14944 Dec 04 12:11 16:30 13° 537'28 1°29'55 14944 Dec 05 12:34 0° ₹ 14944 Dec 05 12:34			• •					
max. Earth dist. 14943 Dec 21 17:05	superior conj	14943 Dec 21 12:35	14° る 11'29	1°36'24		14944 Nov 21 05:33	0° ∡ ¹	
evening rise	2					14944 Nov 23 11:14		
desc. node				1.31134 AU	Č			1 211 10 177
desc. node	evening rise				max. Earth dist.	14944 Dec 04 00:38	26°×'39'33	1.31148 AU
evening max el 14944 Jan 14 02:11 0° ★ minimum elong 14944 Dec 04 22:11 28° ₹39'43 1°29'55 evening max el 14944 Jan 27 19:28 17° ★10'46 27°00'57 14944 Dec 05 12:34 0° ₹ retrograde 14944 Feb 10 19:37 24° ★25'48 evening rise 14944 Dec 11 16:30 13° ₹37'28 evening set 14944 Feb 17 11:26 22° ★31'45 14944 Dec 19 18:46 0° ≈ min. Earth dist. 14944 Feb 21 09:42 19° ★51'02 0.59700 AU desc. node 14944 Dec 25 23:25 10° ≈ 44'22 inferior conj 14944 Feb 24 14:44 17° ★14'58 -2° 49'48 evening max el 14945 Jan 08 16:05 28° ≈ 20'41 25° 55'24 minimum elong 14944 Feb 24 21:03 17° ★02'07 2° 47'05 14945 Jan 10 12:23 0° ★ morning rise 14944 Mar 03 10:05 12° ★32'30 retrograde 14945 Jan 22 14:41 5° ★23'35 asc. node 14944 Mar 04 11:54 12° ★20'26 evening set 14945 Jan 28 17:20 3° ★56'13 direct 14944 Mar 05 10:31 12° ★17'01 min. Earth dist. 14945 Feb 04 01:59 30° ₹ € 10.57572 AU morning max el 14944 Mar 12 23:09 16° ★01'45 18° 06'33	desc node				superior coni	14944 Dec. 04, 23:50	28° √ 48'54	1°29'05
evening max el 14944 Jan 27 19:28 17° ★10'46 27°00'57 14944 Dec 05 12:34 0° ₹ retrograde 14944 Feb 10 19:37 24° ★25'48 evening rise 14944 Dec 11 16:30 13° ₹ 37'28 evening set 14944 Feb 17 11:26 22° ★31'45 14944 Dec 19 18:46 0° ≈ 14944 Dec 19 18:46 0° ≈ 14944 Dec 19 18:46 14945 Jec 19 18:46 14945	dese. Hode							
evening set 14944 Feb 17 11:26 22°\text{31'45}	evening max el	14944 Jan 27 19:28	17°) (10′46	27°00'57	C	14944 Dec 05 12:34	ರ∘ರ	
min. Earth dist. 14944 Feb 21 09:42 19°\£51'02 0.59700 AU desc. node 14944 Dec 25 23:25 10°≈44'22 inferior conj 14944 Feb 24 14:44 17°\£14'58 -2°49'48 evening max el 14945 Jan 08 16:05 28°≈20'41 25°55'24 minimum elong 14944 Feb 24 21:03 17°\£02'07 2°47'05 14945 Jan 10 12:23 0°\£0 morning rise 14944 Mar 03 10:05 12°\£32'30 retrograde 14945 Jan 22 14:41 5°\£23'35 asc. node 14944 Mar 04 11:54 12°\£20'26 evening set 14945 Jan 28 17:20 3°\£56'13 direct 14944 Mar 05 10:31 12°\£17'01 min. Earth dist. 14945 Feb 02 05:10 1°\£18'16 0.57572 AU morning max el 14944 Mar 12 23:09 16°\£01'45 18°06'33 14945 Feb 04 01:59 30°\₹≈	retrograde				evening rise	14944 Dec 11 16:30	13° る 37'28	
inferior conj 14944 Feb 24 14:44 17° ★14'58 -2°49'48 evening max el 14945 Jan 08 16:05 28°≈20'41 25°55'24 minimum elong 14944 Feb 24 21:03 17° ★02'07 2°47'05 14945 Jan 10 12:23 0° ★ morning rise 14944 Mar 03 10:05 12° ★32'30 retrograde 14945 Jan 22 14:41 5° ★23'35 asc. node 14944 Mar 04 11:54 12° ★20'26 evening set 14945 Jan 28 17:20 3° ★56'13 direct 14944 Mar 05 10:31 12° ★17'01 min. Earth dist. 14945 Feb 02 05:10 1° ★18'16 0.57572 AU morning max el 14944 Mar 12 23:09 16° ★01'45 18°06'33	•							
minimum elong 14944 Feb 24 21:03 17°★02'07 2°47'05 14945 Jan 10 12:23 0°★ 0°★ morning rise 14944 Mar 03 10:05 12°★32'30 retrograde 14945 Jan 22 14:41 5°★23'35 asc. node 14944 Mar 04 11:54 12°★20'26 evening set 14945 Jan 28 17:20 3°★56'13 direct 14944 Mar 05 10:31 12°★17'01 min. Earth dist. 14945 Feb 02 05:10 1°★18'16 0.57572 AU morning max el 14944 Mar 12 23:09 16°★01'45 18°06'33 14945 Feb 04 01:59 30°₹≈								25055124
morning rise 14944 Mar 03 10:05 12° ★32'30 retrograde 14945 Jan 22 14:41 5° ★23'35 asc. node 14944 Mar 04 11:54 12° ★20'26 evening set 14945 Jan 28 17:20 3° ★56'13 direct 14944 Mar 05 10:31 12° ★17'01 min. Earth dist. 14945 Feb 02 05:10 1° ★18'16 0.57572 AU morning max el 14944 Mar 12 23:09 16° ★01'45 18°06'33 14945 Feb 04 01:59 30° ₹≈					evening max el			25°55'24
asc. node 14944 Mar 04 11:54 12° ★20'26 evening set 14945 Jan 28 17:20 3° ★56'13 direct 14944 Mar 05 10:31 12° ★17'01 min. Earth dist. 14945 Feb 02 05:10 1° ★18'16 0.57572 AU morning max el 14944 Mar 12 23:09 16° ★01'45 18°06'33 14945 Feb 04 01:59 30° ₹≈				4 4 / 03	retrograde			
direct 14944 Mar 05 10:31 12° ★17'01 min. Earth dist. 14945 Feb 02 05:10 1° ★18'16 0.57572 AU morning max el 14944 Mar 12 23:09 16° ★01'45 18°06'33 14945 Feb 04 01:59 30° ₹≈	•				•			
					•			0.57572 AU
14944 Mar 22 17:00 0° γ inferior conj 14945 Feb 05 04:44 29°≈12'33 -4°16'40	morning max el	14944 Mar 12 23:09		18°06'33		14945 Feb 04 01:59		
		14944 Mar 22 17:00	0 ° Υ		inferior conj	14945 Feb 05 04:44	29° ≈ 12'33	-4°16'40

minimum elong	14945 Feb 05 13:41	28° ≈ 56'47	1°13'23	minimum elong	14946 Jan 17 05:25	10° ≈ 06'32	5°26'19
morning rise	14945 Feb 13 13:00	24°≈51'29	7 13 23	morning rise	14946 Jan 25 12:21	6°≈17'35	3 20 17
direct	14945 Feb 15 13:29	24°≈38'33		direct	14946 Jan 27 21:09	6°≈02'47	
asc. node	14945 Feb 19 09:20	25°≈27'46		asc. node	14946 Feb 06 06:45	10°≈15'59	
morning max el	14945 Feb 24 05:31	28°≈53'38	18°45'23	morning max el	14946 Feb 07 00:09	10°≈56'42	19°46'47
morning max or	14945 Feb 25 07:11	0° ₩	10 13 23	morning max or	14946 Feb 19 19:06	0° ₩	15 10 17
morning set	14945 Mar 12 09:47	24°) 54'05		morning set	14946 Feb 24 13:52	9° ¥ 25'57	
morning sec	14945 Mar 15 00:31	0°Υ		morning sec	11910100 21 13.02	, ,(200)	
		•		superior conj	14946 Mar 04 11:16	25° ¥ 21'29	0°51'45
superior conj	14945 Mar 21 03:29	11° Ƴ 45'55	0°23'49	minimum elong	14946 Mar 04 13:49	25°) 34'03	0°51'32
minimum elong	14945 Mar 21 05:01	11° Y '53'08	0°23'26		14946 Mar 06 20:11	0°Υ	
desc. node	14945 Mar 24 01:07	17° Y ′09'10		max. Earth dist.	14946 Mar 10 15:16	7° Υ 11'55	1.37398 AU
max. Earth dist.	14945 Mar 28 08:46	24° Y '53'57	1.39672 AU	desc. node	14946 Mar 10 21:40	7° Υ 41'32	1.57570110
	14945 Mar 31 07:32	0°8		evening rise	14946 Mar 14 08:17	13° Y 56'34	
evening rise	14945 Apr 01 08:14	1° 8 44'43		0.0000	14946 Mar 23 21:01	0°8	
	14945 Apr 19 13:44	0°II			14946 Apr 14 10:11	0°II	
evening max el	14945 May 06 05:52	20° II 47'27	24°04'39	evening max el	14946 Apr 18 19:27	4° Ⅱ 41'46	25°21'50
retrograde	14945 May 17 10:28	27° I I21'06		retrograde	14946 May 01 00:09	11° II 45'32	
asc. node	14945 May 18 06:06	27° I I18'11		asc. node	14946 May 05 03:21	10° Ⅱ 34'16	
evening set	14945 May 22 20:22	25° I I03'34		evening set	14946 May 06 21:29	9° Ⅱ 18'21	
min. Earth dist.	14945 May 27 11:49	19° Ⅱ 40′29	0.68738 AU	min. Earth dist.	14946 May 11 05:24	4° Ⅱ 31'50	0.67956 AU
inferior conj	14945 May 28 07:09	18° Ⅱ 34'51	2°37'17	inferior conj	14946 May 12 13:32	2° Ⅱ 47'44	2°05'44
minimum elong	14945 May 28 05:13	18° Ⅱ 41'25		minimum elong	14946 May 12 11:22	2° Ⅱ 54'45	2°04'16
morning rise	14945 Jun 02 14:06	12° Ⅱ 32'25			14946 May 14 19:17	30°R ∀	
direct	14945 Jun 06 14:40	11° I I00'24		morning rise	14946 May 18 01:40	26° 8 55'00	
morning max el	14945 Jun 14 08:45	15° Ⅱ 22'08	20°11'22	direct	14946 May 21 14:47	25° 8 42'48	
desc. node	14945 Jun 20 02:05	21° I I59'46		morning max el	14946 May 28 13:26	29° 8 29'45	19°10'16
	14945 Jun 25 22:52	0°ಅ		5 5	14946 May 29 01:32	0°II	
morning set	14945 Jul 12 07:03	24°9522'54		desc. node	14946 Jun 06 23:07	11° Ⅱ 22'12	
S	14945 Jul 15 22:08	$0^{\circ}\Omega$		greatest brilliancy	14946 Jun 10 10:35	16° Ⅱ 28'16	-0.7m
max. Earth dist.	14945 Jul 22 02:29	9° Ω 44'11	1.44298 AU	8	14946 Jun 19 08:10	0°ಅ	
		. ••		morning set	14946 Jun 21 11:51	3°918'54	
superior conj	14945 Jul 27 22:09	19° Ω 07'49	-1°57'39	max. Earth dist.	14946 Jul 04 19:20	23°959'21	1.45477 AU
minimum elong	14945 Jul 28 05:22	19° Ω 37'23	1°57'49				
	14945 Aug 03 11:10	0° m)		superior conj	14946 Jul 07 19:35	28°9643'35	-2°12'58
evening rise	14945 Aug 09 21:17	10° m 57'52		minimum elong		2006552117	2013/50
	14343 Aug 03 21.17	10 119 37 32		minimum elong	14946 Jul 07 22:02	28° 9 53'17	2 13 30
asc. node	•			minimum elong	14946 Jul 07 22:02 14946 Jul 08 14:56		2 13 30
asc. node	14945 Aug 14 06:12	18° Mp 28'46 0° <u>₽</u>			14946 Jul 07 22:02 14946 Jul 08 14:56 14946 Jul 22 11:59	$0^{\circ}\Omega$	2 13 30
	14945 Aug 14 06:12 14945 Aug 21 07:44	18° m 28'46	18°03'01	evening rise	14946 Jul 08 14:56		2 13 30
evening max el	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04	18° ™ 28'46 0° ⊆	18°03'01		14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56	0° N 22° N 21'33	2 13 30
evening max el retrograde	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35	18° ™ 28'46 0° ⊆ 7° ⊆ 21'12	18°03'01	evening rise	14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51	0° N 22° N 21'33 0° M 7° M 58'43	18°18'05
evening max el	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04	18° M 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53		evening rise asc. node evening max el	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30	0° N 22° N21'33 0° M 7° M 58'43 20° M 56'16	
evening max el retrograde evening set	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10	18° № 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07	18°03'01 1°18'18 1°17'36	evening rise asc. node evening max el retrograde	14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27	0° N 22° N 21'33 0° M 7° M 58'43	
evening max el retrograde evening set inferior conj	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18	18° M 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53 4° Ω 56'10	1°18'18	evening rise asc. node evening max el	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30	0° N 22° N21'33 0° M 7° M 58'43 20° M 56'16 24° M 19'36	
evening max el retrograde evening set inferior conj minimum elong	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11	18° m 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53 4° Ω 56'10 4° Ω 50'55	1°18'18 1°17'36	evening rise asc. node evening max el retrograde evening set inferior conj	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41	0° N 22° N21'33 0° M 7° M 58'43 20° M 56'16 24° M 19'36 23° M 30'59	18°18'05
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57	1°18'18 1°17'36	evening rise asc. node evening max el retrograde evening set	14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04	0° N 22° N21'33 0° M 7° M 58'43 20° M 56'16 24° M 19'36 23° M 30'59 18° M 02'36	18°18'05 2°10'07
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59	1°18'18 1°17'36	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39	18°18'05 2°10'07 2°09'09
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43	18° m 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53 4° Ω 56'10 4° Ω 50'55 1° Ω 57'57 0° Ω 29'59 30° R M	1°18'18 1°17'36	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21	18°18'05 2°10'07 2°09'09
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 16 12:43 14945 Sep 18 00:41	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R M/ 28° m/49'12	1°18'18 1°17'36	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14946 Jul	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31	18°18'05 2°10'07 2°09'09
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R M/28° m/49'12 26° m/25'25	1°18'18 1°17'36 0.62333 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45	18°18'05 2°10'07 2°09'09 0.64455 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R M/28° M/49'12 26° M/25'25 0° Ω	1°18'18 1°17'36 0.62333 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58	18°18'05 2°10'07 2°09'09 0.64455 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07	18° m 28'46 0° \(\text{0} \) \(\te	1°18'18 1°17'36 0.62333 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25	18°18'05 2°10'07 2°09'09 0.64455 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14945 Aug 14 06:12 14945 Aug 27 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42	18° m 28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R M 28° M 49'12 26° M 25'25 0° Ω 4° Ω24'11 0° M	1°18'18 1°17'36 0.62333 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω	18°18'05 2°10'07 2°09'09 0.64455 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	14945 Aug 14 06:12 14945 Aug 27 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03	18° m 28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R M 28° m 49'12 26° m 25'25 0° Ω 4° Ω24'11 0° M 24° M 08'48	1°18'18 1°17'36 0.62333 AU	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 02 00:04	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M	18°18'05 2°10'07 2°09'09 0.64455 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el asc. node	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 16 12:43 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50	18° m 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53 4° Ω 56'10 4° Ω 50'55 1° Ω 57'57 0° Ω 29'59 30° R M 28° M 49'12 26° M 25'25 0° Ω 4° Ω 24'11 0° M 24° M 08'48 27° M 14'55	1°18'18 1°17'36 0.62333 AU	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 26 11:13	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M 10° M 42'13	18°18'05 2°10'07 2°09'09 0.64455 AU
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	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω42'07 10° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R m/ 28° m/49'12 26° m/25'25 0° Ω 4° Ω24'11 0° m. 24° m.08'48 27° m.14'55 0° ズ	1°18'18 1°17'36 0.62333 AU 27°57'00	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 26 11:13 14946 Oct 28 04:49	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M 10° M 42'13 14° M 09'28	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47
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	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω42'07 10° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R m/ 28° m/49'12 26° m/25'25 0° Ω 4° Ω24'11 0° m. 24° m.08'48 27° m.14'55 0° ズ	1°18'18 1°17'36 0.62333 AU 27°57'00	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 26 11:13 14946 Oct 28 04:49	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M 10° M 42'13 14° M 09'28	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47
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.	14945 Aug 14 06:12 14945 Aug 21 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49 14945 Nov 17 04:32	18° m 28'46 0° \(\text{0} \) 7° \(\Delta 21'12 \) 10° \(\Delta 42'07 \) 10° \(\Delta 42'07 \) 4° \(\Delta 56'10 \) 4° \(\Delta 55'55 \) 1° \(\Delta 57'57 \) 0° \(\Delta 29'59 \) 30° \(\mathred{M} \) 28° \(\mathred{M} 49'12 \) 26° \(\mathred{M} 25'25 \) 0° \(\Delta \) 4° \(\Delta 24'11 \) 0° \(\mathred{M} \) 24° \(\mathred{M} \) 24° \(\mathred{M} \) 08' \(\mathred{M} 29'27 \) 8° \(\mathred{\sigma} 29'27 \)	1°18'18 1°17'36 0.62333 AU 27°57'00	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.	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 26 11:13 14946 Oct 28 04:49 14946 Oct 31 01:16	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° \(\Omega\) 10° m 42'13 14° m 09'28 20° m 00'07	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47
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.	14945 Aug 14 06:12 14945 Aug 27 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49 14945 Nov 17 04:32	18° m 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 407'53 4° Ω 56'10 4° Ω 50'55 1° Ω 57'57 0° Ω 29'59 30° R M 28° M 49'12 26° M 25'25 0° Ω 4° Ω 24'11 0° M 24° M 08'48 27° M 14'55 0° ズ 8° ズ 29'27	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52	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.	14946 Jul 08 14:56 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 26 11:13 14946 Oct 28 04:49 14946 Oct 31 01:16	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° \(\Omega\) 10° m 42'13 14° m 09'28 20° m 00'07	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43
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 minimum elong	14945 Aug 14 06:12 14945 Aug 27 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49 14945 Nov 17 04:32	18° my 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53 4° Ω 56'10 4° Ω 50'55 1° Ω 57'57 0° Ω 29'59 30° R My 28° My 49'12 26° My 25'25 0° Ω 4° Ω 24'11 0° M. 24° M. 08'48 27° M. 14'55 0° ズ 8° ズ 29'27 13° ズ 16'45 13° ズ 04'34	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52	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.	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Oct 31 01:16	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° \(\Omega\) 10° m 42'13 14° m 09'28 20° m 00'07 27° m 29'39 27° m 17'26	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43
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 minimum elong	14945 Aug 14 06:12 14945 Aug 27 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49 14945 Nov 17 04:32 14945 Nov 19 09:03 14945 Nov 19 06:51 14945 Nov 19 06:51 14945 Nov 26 03:00	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R m/28' m/49'12 26° m/25'25 0° Ω 4° Ω24'11 0° m. 24° m.08'48 27° m.14'55 0° ズ 8° ズ29'27 13° ズ 16'45 13° ズ 04'34 28° ズ 07'07	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Oct 31 01:16	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M 10° M 42'13 14° M 09'28 20° M 00'07 27° M 29'39 27° M 17'26 0° 7°	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43
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 minimum elong evening rise	14945 Aug 14 06:12 14945 Aug 27 07:44 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 13 04:49 14945 Nov 17 04:32 14945 Nov 19 09:03 14945 Nov 19 09:03 14945 Nov 19 06:51 14945 Nov 26 03:00 14945 Nov 27 00:00	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R m/25'25 0° Ω 4° Ω24'11 0° m 24° m.08'48 27° m.14'55 0° ¾ 8° ¾29'27 13° ¾16'45 13° ¾04'34 28° ¾07'07 0° ጜ	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Nov 03 14:12 14946 Nov 03 11:56 14946 Nov 04 18:08 14946 Nov 04 18:08	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M 10° M 42'13 14° m 09'28 20° M 00'07 27° M 29'39 27° M 17'26 0° √ 12° √ 36'01	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43
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 minimum elong evening rise	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 07 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 11 20:50 14945 Nov 17 04:32 14945 Nov 19 09:03 14945 Nov 19 06:51 14945 Nov 26 03:00 14945 Nov 27 00:00 14945 Dec 12 20:21	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R m/28' m/49'12 26° m/25'25 0° Ω 4° Ω24'11 0° m. 24° m.08'48 27° m.14'55 0° ¾ 8° ¾29'27 13° ¾16'45 13° ¾04'34 28° ¾07'07 0° ♂ 28° ♂43'44	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 02 20:34 14946 Sep 01 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Oct 31 01:16 14946 Nov 03 14:12 14946 Nov 03 11:56 14946 Nov 04 18:08 14946 Nov 10 13:55 14946 Nov 10 13:55	0° N 22° N21'33 0° m 7° m 58'43 20° m 56'16 24° m 19'36 23° m 30'59 18° m 02'36 17° m 55'39 15° m 20'21 11° m 42'31 10° m 25'45 9° m 06'58 17° m 04'25 0° Ω 0° M 10° M 42'13 14° M 09'28 20° M 00'07 27° M 29'39 27° M 17'26 0° 12° 12° 12° 12° 12° 12° 136'01 0° 5	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43 0°57'07
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 minimum elong evening rise desc. node	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 18 00:41 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 07 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 11 20:50 14945 Nov 17 04:32 14945 Nov 19 09:03 14945 Nov 19 06:51 14945 Nov 26 03:00 14945 Nov 27 00:00 14945 Dec 12 20:21 14945 Dec 13 18:08	18° m/28'46 0° Ω 7° Ω21'12 10° Ω42'07 10° Ω42'07 10° Ω07'53 4° Ω56'10 4° Ω50'55 1° Ω57'57 0° Ω29'59 30° R m/ 28° m/49'12 26° m/25'25 0° Ω 4° Ω24'11 0° m. 24° m.08'48 27° m.14'55 0° ¾ 8° ¾29'27 13° ¾ 16'45 13° ¾ 04'34 28° ¾ 07'07 0° ♂ 28° ♂ 43'44 0° ≈	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52 1°16'29	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	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Sep 21 05:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Oct 31 01:16 14946 Nov 03 14:12 14946 Nov 03 11:56 14946 Nov 04 18:08 14946 Nov 10 13:55 14946 Nov 19 07:03 14946 Nov 29 17:25	0° N 22° N21'33 0° m 7° m58'43 20° m56'16 24° m19'36 23° m30'59 18° m02'36 17° m55'39 15° m20'21 11° m42'31 10° m25'45 9° m06'58 17° m04'25 0° Ω 0° M 10° M42'13 14° M09'28 20° M00'07 27° M29'39 27° M17'26 0° ♂ 12° ♂ 35'25	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43 0°57'07
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 minimum elong evening rise desc. node evening max el	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 08 19:07 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 11 20:50 14945 Nov 17 04:32 14945 Nov 19 09:03 14945 Nov 19 06:51 14945 Nov 27 00:00 14945 Nov 27 00:00 14945 Dec 12 20:21 14945 Dec 13 18:08 14945 Dec 21 04:45	18° mp 28'46 0° Ω 7° Ω 21'12 10° Ω 42'07 10° Ω 07'53 4° Ω 56'10 4° Ω 50'55 1° Ω 57'57 0° Ω 29'59 30° R mp 28° mp 49'12 26° mp 25'25 0° Ω 4° Ω 24'11 0° m. 24° m.08'48 27° m.14'55 0° ¾ 8° ¾ 29'27 13° ¾ 16'45 13° ¾ 04'34 28° ¾ 04'07 0° ♂ 28° ♂ 43'44 0° ≈ 8° ≈ 42'32	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52 1°16'29	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 evening max el	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 02 105:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Oct 31 01:16 14946 Nov 03 14:12 14946 Nov 03 11:56 14946 Nov 04 18:08 14946 Nov 10 13:55 14946 Nov 19 07:03 14946 Nov 29 17:25 14946 Dec 02 14:30	0° N 22° N21'33 0° m 7° m58'43 20° m56'16 24° m19'36 23° m30'59 18° m02'36 17° m55'39 15° m20'21 11° m42'31 10° m25'45 9° m06'58 17° m04'25 0° Ω 0° M 10° M42'13 14° M09'28 20° M00'07 27° M29'39 27° M17'26 0° ♂ 12° ♂ 35'25 18° ♂ 35'25 18° ♂ 35'25	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43 0°57'07
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 minimum elong evening rise desc. node evening max el retrograde	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 27 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 17 04:32 14945 Nov 19 09:03 14945 Nov 19 06:51 14945 Nov 26 03:00 14945 Nov 27 00:00 14945 Dec 13 18:08 14945 Dec 21 04:45 14946 Jan 03 20:30	18° mp 28'46 0° n 7° n 21'12 10° n 42'07 10° n 42'07 10° n 50'55 1° n 57'57 0° n 29'59 30° n mp 28° mp 49'12 26° mp 25'25 0° n 4° n 24'11 0° m 24° m 08'48 27° m 14'55 0° x 8° x 29'27 13° x 16'45 13° x 04'34 28° x 07'07 0° 5 28° 5 43'44 0° 8 8° 8 42'32 15° 8 30'28 14° 8 32'08	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52 1°16'29	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 evening max el retrograde	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Aug 10 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 02 105:27 14946 Oct 02 00:04 14946 Oct 20 19:47 14946 Oct 20 19:47 14946 Oct 28 04:49 14946 Oct 31 01:16 14946 Nov 03 14:12 14946 Nov 04 18:08 14946 Nov 19 07:03 14946 Nov 19 07:03 14946 Nov 29 17:25 14946 Dec 02 14:30 14946 Dec 02 14:30 14946 Dec 02 14:30	0° N 22° N21'33 0° m 7° m58'43 20° m56'16 24° m19'36 23° m30'59 18° m02'36 17° m55'39 15° m20'21 11° m42'31 10° m25'45 9° m06'58 17° m04'25 0° Ω 0° M 10° M42'13 14° M09'28 20° M00'07 27° M29'39 27° M17'26 0° % 12° % 36'01 0° ♂ 15° ♂ 35'25 18° ♂ 40'12 25° ♂ 505'51	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43 0°57'07
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 minimum elong evening rise desc. node evening max el retrograde evening set	14945 Aug 14 06:12 14945 Aug 27 02:04 14945 Sep 02 12:35 14945 Sep 05 03:18 14945 Sep 11 13:10 14945 Sep 11 15:11 14945 Sep 14 10:02 14945 Sep 15 23:02 14945 Sep 16 12:43 14945 Sep 18 00:41 14945 Sep 24 17:05 14945 Oct 03 17:34 14945 Oct 03 17:34 14945 Oct 07 23:42 14945 Nov 10 08:03 14945 Nov 11 20:50 14945 Nov 11 20:50 14945 Nov 17 04:32 14945 Nov 19 06:51 14945 Nov 26 03:00 14945 Nov 27 00:00 14945 Dec 12 20:21 14945 Dec 13 18:08 14945 Dec 21 04:45 14946 Jan 03 20:30 14946 Jan 09 00:25	18° mp 28'46 0° n 7° n 21'12 10° n 42'07 10° n 42'07 10° n 56'10 4° n 50'55 1° n 57'57 0° n 29'59 30° n mp 28° mp 49'12 26° mp 25'25 0° n 4° n 24'11 0° m 24° m 08'48 27° m 14'55 0° x 8° x 29'27 13° x 16'45 13° x 04'34 28° x 07'07 0° 5 28° 5 43'44 0° 8 8° 8 42'32 15° 8 30'28 14° 8 32'08	1°18'18 1°17'36 0.62333 AU 27°57'00 1.31714 AU 1°15'52 1°16'29 24°23'15 0.55813 AU	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 evening rise desc. node evening set	14946 Jul 08 14:56 14946 Jul 22 11:59 14946 Jul 27 03:56 14946 Aug 01 02:51 14946 Aug 10 16:30 14946 Aug 17 01:27 14946 Aug 20 00:52 14946 Aug 25 22:41 14946 Aug 26 01:04 14946 Aug 28 06:52 14946 Aug 31 23:47 14946 Sep 02 20:34 14946 Sep 07 13:06 14946 Oct 02 00:04 14946 Oct 02 019:47 14946 Oct 26 11:13 14946 Oct 27 19:47 14946 Oct 28 04:49 14946 Nov 03 14:12 14946 Nov 03 14:12 14946 Nov 04 18:08 14946 Nov 10 13:55 14946 Nov 19 07:03 14946 Nov 29 17:25 14946 Dec 02 14:30 14946 Dec 15 13:44 14946 Dec 19 10:29	0° N 22° N21'33 0° M 7° M58'43 20° M56'16 24° M19'36 23° M30'59 18° M02'36 17° M55'39 15° M20'21 11° M42'31 10° M25'45 9° M06'58 17° M04'25 0° Ω 0° M 10° M42'13 14° M09'28 20° M00'07 27° M29'39 27° M17'26 0° ズ 12° ズ36'01 0° ズ 15° ♂35'25 18° ♂40'12 25° ♂505'51 24° ♂33'13	18°18'05 2°10'07 2°09'09 0.64455 AU 27°27'47 1.32832 AU 0°56'43 0°57'07 22°40'14 0.54704 AU

minimum elong	14946 Dec 27 20:53	20° る 36'53	5°59'16	minimum elong	14947 Dec 07 03:31	0°₹44'06	5°30'13
morning rise	14947 Jan 05 08:33	16° පි 49'30		min. Earth dist.	14947 Dec 08 04:32	0° ප 08'36	0.54466 AU
direct	14947 Jan 08 11:29	16° පි 27'13			14947 Dec 08 10:37	30°R ✓	
morning max el	14947 Jan 20 04:14	22° る 04'18	21°11'20	morning rise	14947 Dec 15 15:59	26° х 40′58	
asc. node	14947 Jan 24 04:07	26° පි 30'40		direct	14947 Dec 19 18:43	26° х ¹04'34	
	14947 Jan 26 17:51	0° ≈			14947 Dec 30 00:02	5°0	
morning set	14947 Feb 08 22:43	24° ≈ 07'47		morning max el	14948 Jan 01 19:13	2° る 23'20	22°54'36
	14947 Feb 11 17:53	0° ∀		asc. node	14948 Jan 11 01:25	13° る 53'51	
					14948 Jan 20 03:01	0°≈	
superior conj	14947 Feb 16 06:07	9° ∺ 26'04	1°13'00	morning set	14948 Jan 24 10:05	8° ≈ 53'14	
minimum elong	14947 Feb 16 08:39	9° ∺ 39'06	1°13'08				
max. Earth dist.	14947 Feb 21 01:03	19° ∺ 06'58	1.35285 AU	superior conj	14948 Jan 31 08:46	23° ≈ 50'38	1°27'36
evening rise	14947 Feb 25 01:28	26° ¥ 50′28		minimum elong	14948 Jan 31 10:39	24° ≈ 00'39	1°28'07
desc. node	14947 Feb 25 18:11	28° ∺ 08'29			14948 Feb 03 06:32	0° ∀	
	14947 Feb 26 18:21	0° Y		max. Earth dist.	14948 Feb 03 17:36	0°) 57'40	1.33515 AU
	14947 Mar 17 06:08	0° 8		evening rise	14948 Feb 08 08:18	10° ∺ 17'53	
evening max el	14947 Apr 01 09:08	18° 8 30'18	26°27'27	desc. node	14948 Feb 12 14:44	18° ∺ 26′03	
retrograde	14947 Apr 14 08:45	25° 8 52'59			14948 Feb 19 04:35	0° Y	
evening set	14947 Apr 20 16:23	23° 8 20'51			14948 Mar 11 21:10	0°8	
asc. node	14947 Apr 22 00:43	22° 8 08'31		evening max el	14948 Mar 13 22:35		27°14'06
min. Earth dist.	14947 Apr 24 18:08	19° 8 09'32	0.66730 AU	retrograde	14948 Mar 27 11:25	9° 8 35'11	
inferior conj	14947 Apr 26 15:06	16° 8 53'23	1°22'49	evening set	14948 Apr 03 03:03	7° 8 04'16	
minimum elong	14947 Apr 26 13:15	_	1°21'32	min. Earth dist.	14948 Apr 07 00:08	3° 8 25'29	0.65106 AU
morning rise	14947 May 02 11:08	11° 8 11'55		asc. node	14948 Apr 07 22:07	2° 8 25'13	
direct	14947 May 05 13:40	10° 8 17'49		inferior conj	14948 Apr 09 09:26	0° 8 46'32	0°27'43
morning max el	14947 May 12 00:49	13° 8 43'13	18°25'15	minimum elong	14948 Apr 09 08:41	0° 8 48'38	0°27'00
	14947 May 24 01:50	Π °0			14948 Apr 10 02:16	30° Ŗ ♈	
desc. node	14947 May 24 20:02	1° Ⅱ 10'36		morning rise	14948 Apr 15 16:06	25° Y 18′04	
morning set	14947 Jun 01 10:45	13° Ⅱ 09'48		direct	14948 Apr 18 09:06	24° Ƴ 39'16	
	14947 Jun 12 03:34	0 \circ		morning max el	14948 Apr 24 16:46		17°57'04
					14948 Apr 26 15:00	0° 8	
superior conj	14947 Jun 17 04:38	7° 9 52'43		desc. node	14948 May 10 16:50	21° 8 17'57	
minimum elong	14947 Jun 16 23:22	7° © 32'09		morning set	14948 May 12 13:09	24° 8 20'26	
max. Earth dist.	14947 Jun 17 15:11		1.45931 AU		14948 May 15 23:50	Π $^{\circ}$ 0	
	14947 Jul 01 08:18	0°N			1404034 26 10 15	1500000	1045150
evening rise	14947 Jul 03 01:47	2° Ω 42'57		superior conj	14948 May 26 18:15	17° Ⅱ 20′25	-1°45'59
	14045 7 1 40 05 41				1 10 10 3 7 2 6 00 22		10100
greatest brilliancy	14947 Jul 12 07:41	17° Ω 11'02	-0.8m	minimum elong	14948 May 26 09:22		1°46'07
greatest brilliancy asc. node	14947 Jul 18 23:34	27° Ω 05'31	-0.8m	minimum elong max. Earth dist.	14948 May 30 11:07	23° Ⅱ 10′28	1°46'07 1.45637 AU
asc. node	14947 Jul 18 23:34 14947 Jul 21 03:07	27° Ω 05'31 0° M		max. Earth dist.	14948 May 30 11:07 14948 Jun 03 20:08	23°∏10′28 0°©	
asc. node	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10	27° Ω 05'31 0° m 4° m 41'50	-0.8m 18°50'36	_	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13	23°Ⅲ10′28 0°© 12°©17′07	
asc. node evening max el retrograde	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27	27° Q 05'31 0° m 4° m 41'50 8° m 20'45		max. Earth dist.	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29	23°∏10′28 0°© 12°©17′07 0°Ω	1.45637 AU
asc. node evening max el retrograde evening set	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58	27° \Omega 05'31 0° m 4° m 41'50 8° m 20'45 7° m 15'56	18°50'36	max. Earth dist. evening rise greatest brilliancy	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03	23°∏10'28 0°© 12°©17'07 0°Ω 3°Ω21'15	1.45637 AU
asc. node evening max el retrograde evening set inferior conj	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20	27° \Omega 05'31 0° my 4° my 41'50 8° my 20'45 7° my 15'56 1° my 33'01	18°50'36 2°44'14	max. Earth dist. evening rise greatest brilliancy asc. node	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22	23° II 10'28 0° S 12° S 17'07 0° N 3° N 21'15 15° N 41'00	1.45637 AU -0.6m
asc. node evening max el retrograde evening set	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 09 20:16	27° \(\O 05'31\) 0° my 4° m/41'50 8° m/20'45 7° m/15'56 1° m/33'01 1° m/26'55	18°50'36 2°44'14	max. Earth dist. evening rise greatest brilliancy asc. node evening max el	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58	23° II 10'28 0° II 10'28 12° II 17'07 0° \(\Omega\) 3° \(\Omega\) 21'15 15° \(\Omega\) 41'00 18° \(\Omega\) 32'18	1.45637 AU
asc. node evening max el retrograde evening set inferior conj minimum elong	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48	27° \$\O5'31\$ 0° \$\text{m}\$ 4° \$\text{m}\$41'50\$ 8° \$\text{m}\$20'45\$ 7° \$\text{m}\$15'56\$ 1° \$\text{m}\$33'01\$ 1° \$\text{m}\$26'55\$ 30° \$\text{R}\$\text{\O}\$	18°50'36 2°44'14 2°43'18	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35	23° II 10'28 0° II 10'28 12° I7'07 0° I 3° I 21'15 15° I 41'00 18° I 32'18 22° I 39'01	1.45637 AU -0.6m
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26	$27^{\circ}\Omega05'31$ $0^{\circ}m$ $4^{\circ}m41'50$ $8^{\circ}m20'45$ $7^{\circ}m15'56$ $1^{\circ}m33'01$ $1^{\circ}m26'55$ $30^{\circ}R\Omega$ $29^{\circ}\Omega20'39$	18°50'36 2°44'14	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50	23° II 10'28 0° II 10'28 12° I7'07 0° II 3° I21'15 15° I41'00 18° I32'18 22° I39'01 21° I17'02	1.45637 AU -0.6m 19°39'33
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41	27° \$\O5'31\$ 0° \$\mathref{m}\$ 4° \$\mathref{m}\$41'50\$ 8° \$\mathref{m}\$20'45\$ 7° \$\mathref{m}\$15'56\$ 1° \$\mathref{m}\$26'55\$ 30° \$\mathref{R}\$\Omega\$ 29° \$\O20'39\$ 25° \$\O7'31\$	18°50'36 2°44'14 2°43'18	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00	23° II 10'28 0° II 10'28 12° II 17'07 0° II 3° II 15' IS' II 15' IS' II 15' II 18'	1.45637 AU -0.6m 19°39'33 3°03'30
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04	27° \$\O5'31\) 0° \$\mathref{m}\) 4° \$\mathref{m}\)41'50\\ 8° \$\mathref{m}\)20'45\\ 7° \$\mathref{m}\)15'56\\ 1° \$\mathref{m}\)33'01\\ 1° \$\mathref{m}\)26'55\\ 30° \$\mathref{R}\)\ 29° \$\O20'39\\ 25° \$\O7'31\\ 22° \$\O32'32\\	18°50'36 2°44'14 2°43'18	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05	23° II 10'28 0° II 10'28 12° II 17'07 0° II 3° II 15' IS' II 15' IS' II 15' II 15' II 18'	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45	27° \$\O5'31\) 0° \$\mathbf{m}\) 4° \$\mathbf{m}\) 41'50\\ 8° \$\mathbf{m}\) 20'45\\ 7° \$\mathbf{m}\) 15'56\\ 1° \$\mathbf{m}\) 26'55\\ 30° \$\mathbf{R}\) 29° \$\O20'39\\ 25° \$\O7'31\\ 22° \$\O32'32\\ 22° \$\O29'09\\	18°50'36 2°44'14 2°43'18 0.66254 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57	23° II 10'28 0° II 10'07 0° II 20'07 0° II 3° II 15' II 15' II 15' II 15' II 10'00 18° II 18' II 10'02 11° II	1.45637 AU -0.6m 19°39'33 3°03'30
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00	27° \$\O5'31\$ 0° \$\text{m}\$ 4° \$\text{m}\$41'50\$ 8° \$\text{m}\$20'45\$ 7° \$\text{m}\$15'56\$ 1° \$\text{m}\$33'01\$ 1° \$\text{m}\$26'55\$ 30° \$\text{R}\$\text{A}\$ 29° \$\O20'39\$ 25° \$\O7'31\$ 22° \$\O32'32\$ 22° \$\O29'09\$ 0° \$\text{m}\$12'21	18°50'36 2°44'14 2°43'18	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50	23° II 10'28 0° II 10'28 12° II 1'07 0° II 3° II 1'15 15° II 1'00 18° II 1'00 18° II 1'02 15° II 1'02 15° II 1'02 15° II 1'30 13° II 1'30 13° II 1'51 8° II 1'55	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 11 12:26 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05	27° \$\O5'31\$ 0° \$\text{m}\$ 4° \$\text{m}\$41'50\$ 8° \$\text{m}\$20'45\$ 7° \$\text{m}\$15'56\$ 1° \$\text{m}\$33'01\$ 1° \$\text{m}\$26'55\$ 30° \$\text{R}\$\text{\O}\$ 29° \$\O20'39\$ 25° \$\O7'31\$ 22° \$\O32'32\$ 22° \$\O29'09\$ 0° \$\text{m}\$12'21 0° \$\text{m}\$	18°50'36 2°44'14 2°43'18 0.66254 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53	23° II 10'28 0° II 10'28 0° II 10'07 0° II 3° II 15' II 15' II 15' II 15' II 10'00 18° II 18' II 18' II 10'00 11' II 10' II	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 21 16:45 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Sep 25 22:47	27° \$\O5'31\$ 0° \$\text{m}\$ 4° \$\text{m}\$41'50\$ 8° \$\text{m}\$20'45\$ 7° \$\text{m}\$15'56\$ 1° \$\text{m}\$33'01\$ 1° \$\text{m}\$26'55\$ 30° \$\text{R}\$\text{\O}\$ 29° \$\O20'39\$ 25° \$\O7'31\$ 22° \$\O29'09\$ 0° \$\text{m}\$12'21\$ 0° \$\text{m}\$ 0° \$\text{\O}\$	18°50'36 2°44'14 2°43'18 0.66254 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31	23° II 10'28 0° II 10'28 0° II 10'07 0° II 20' II 15' II 15' II 15' II 15' II 10' II 18' I	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 20:16 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Sep 25 22:47 14947 Oct 09 13:49	27° \$\O5'31\$ 0° \$\text{m}\$ 4° \$\text{m}\$41'50\$ 8° \$\text{m}\$20'45\$ 7° \$\text{m}\$15'56\$ 1° \$\text{m}\$33'01\$ 1° \$\text{m}\$26'55\$ 30° \$\text{R}\$\text{\O20'39}\$ 25° \$\O20'39\$ 25° \$\O20'31\$ 22° \$\O22'32\$ 22° \$\O29'09\$ 0° \$\text{m}\$12'21\$ 0° \$\text{m}\$ 0° \$\O20'36'07\$	18°50'36 2°44'14 2°43'18 0.66254 AU	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56	23° II 10'28 0° II 10'28 0° II 2° II 1'107 0° II 3° II 21'15 15° II 1'00 18° II 1'00 18° II 1'00 15° II 1'00 15° II 1'30 13° II 1'51 8° II 1'30 13° II	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU
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	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 20:16 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Sep 25 22:47 14947 Oct 09 13:49	27° Ω05'31 0° m 4° m/41'50 8° m/20'45 7° m/15'56 1° m/33'01 1° m/26'55 30° κΩ 29° Ω20'39 25° Ω07'31 22° Ω32'32 22° Ω29'09 0° m/12'21 0° m 0° Ω 23° Ω36'07 0° m.	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39	max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46	23° II 10'28 0° II 10'28 0° II 17'07 0° II 3° II 15' II 15' II 15' II 15' II 18' II	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Sep 25 22:47 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15	27° \$\O5'31 0° \$\text{m}\$ 4° \$\text{m}\$41'50 8° \$\text{m}\$20'45 7° \$\text{m}\$15'56 1° \$\text{m}\$33'01 1° \$\text{m}\$26'55 30° \$\O} 29° \$\O20'39 25° \$\O7'31 22° \$\O32'32 22° \$\O29'09 0° \$\text{m}\$12'21 0° \$\text{m}\$ 0° \$\Omega\$ 23° \$\Omega\$36'07 0° \$\text{m}\$ 1° \$\text{m}\$11'03	18°50'36 2°44'14 2°43'18 0.66254 AU	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38	23° II 10'28 0° II 12° II 7'07 0° II 3° II 21'15 15° II 1'00 18° II 1'00 18° II 1'02 15° II 1'30 13° I	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU
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 max. Earth dist.	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 20:16 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Sep 25 22:47 14947 Oct 09 13:49	27° Ω05'31 0° m 4° m/41'50 8° m/20'45 7° m/15'56 1° m/33'01 1° m/26'55 30° κΩ 29° Ω20'39 25° Ω07'31 22° Ω32'32 22° Ω29'09 0° m/12'21 0° m 0° Ω 23° Ω36'07 0° m.	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48	23° II 10'28 0° II 12° II 7'07 0° II 3° II 21'15 15° II 1'00 18° II 1'00 18° II 1'02 15° II 1'30 13° I	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set max. Earth dist. asc. node	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 15 01:29	27° \$\Os'31\$ 0° \$\text{m}\$ 4° \$\text{m}\$41'50\$ 8° \$\text{m}\$20'45\$ 7° \$\text{m}\$15'56\$ 1° \$\text{m}\$33'01\$ 1° \$\text{m}\$26'55\$ 30° \$\text{R}\$\tau\$ 29° \$\Oz'33\$ 25° \$\Oz'31\$ 22° \$\Oz'33\$ 22° \$\Oz'32'32\$ 22° \$\Oz'9'09\$ 0° \$\text{m}\$12'21\$ 0° \$\text{m}\$ 0° \$\text{m}\$ 23° \$\Delta 36'07\$ 0° \$\text{m}\$ 1° \$\text{m}\$11'03\$ 4° \$\text{m}\$16'14	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 10:48	23° II 10'28 0° II 10'28 0° II 17'07 0° II 20' II 15' II 15° II 15° II 18° II 17'02 11° II 17'02 15° II 17'02 15° II 17'02 15° II 17'03 13° II 17'30 13° II 17'30 13° II 17'30 13° II 17'30 13° II 17'30 6° II 13' I	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU
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 max. Earth dist. asc. node superior conj	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 12 21:47 14947 Oct 12 21:47 14947 Oct 15 01:29	27° \$\O5'31\) 0° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 8° \$\mathbf{m}\) 20'45 7° \$\mathbf{m}\) 15'56 1° \$\mathbf{m}\) 33'01 1° \$\mathbf{m}\) 26'55 30° \$\mathbf{R}\) 29° \$\O20'39 25° \$\O7'31 22° \$\O32'32 22° \$\O29'09 0° \$\mathbf{m}\) 12'21 0° \$\mathbf{m}\) 0° \$\mathbf{L}\) 23° \$\mathbf{L}\) 36'07 0° \$\mathbf{m}\) 1° \$\mathbf{m}\) 11'03 4° \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\)	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47	max. Earth dist. evening rise 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.	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48	23° II 10'28 0° II 12° II 7'07 0° II 3° II 21'15 15° II 1'00 18° II 1'00 18° II 1'02 15° II 1'30 13° I	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45
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 max. Earth dist. asc. node superior conj minimum elong	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 18 12:15 14947 Oct 18 12:52 14947 Oct 18 12:52 14947 Oct 18 12:52	27° \$\O5'31\) 0° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 8° \$\mathbf{m}\) 20'45\) 7° \$\mathbf{m}\) 15'56\) 1° \$\mathbf{m}\) 26'55\) 30° \$\mathbf{R}\) 29° \$\O20'39\) 25° \$\O7'31\) 22° \$\O32'32\) 22° \$\O29'09\) 0° \$\mathbf{m}\) 12'21\) 0° \$\mathbf{m}\) 1° \$\mathbf{m}\) 11'03\) 4° \$\mathbf{m}\) 11'11'03\) 4° \$\mathbf{m}\) 11' \$\mathbf{m}\)	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 24 14:04 14948 Sep 30 22:05	23° II 10'28 0° II 10'28 0° II 17'07 0° II 20' II 15' II 15° II 15° II 18° II 17'02 11° II 17'02 15° II 17'02 15° II 17'02 15° II 17'03 13° II 17'30 13° II 17'30 13° II 17'30 13° II 17'30 13° II 17'30 6° II 13' I	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45
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 max. Earth dist. asc. node superior conj	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 12 21:47 14947 Oct 12 21:47 14947 Oct 15 01:29	27° \$\O5'31\) 0° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 8° \$\mathbf{m}\) 20'45 7° \$\mathbf{m}\) 15'56 1° \$\mathbf{m}\) 33'01 1° \$\mathbf{m}\) 26'55 30° \$\mathbf{R}\) 29° \$\O20'39 25° \$\O7'31 22° \$\O32'32 22° \$\O29'09 0° \$\mathbf{m}\) 12'21 0° \$\mathbf{m}\) 0° \$\mathbf{L}\) 23° \$\mathbf{L}\) 36'07 0° \$\mathbf{m}\) 1° \$\mathbf{m}\) 11'03 4° \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\)	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 10:48	23° II 10'28 0° II 10'28 0° II 2° II 1'07 0° II 3° II 1'15 15° II 1'15 15° II 1'10 18° II 1'10 21° II	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45
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 max. Earth dist. asc. node superior conj minimum elong evening rise	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 21 16:45 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 18 12:52 14947 Oct 18 11:13 14947 Oct 25 23:18 14947 Oct 27 10:03	27° \$\Osis1 \\ 0° m 4° m\41'50 8° m\20'45 7° m\15'56 1° m\33'01 1° m\26'55 30° R\O 29° \Ozo'39 25° \Ozo'31 22° \Ozo'32'32 22° \Ozo'90 0° m\12'21 0° m 0° \Ozo 23° \Ozo'36'07 0° m 1° m\11'03 4° m\16'14 11° m\21'27 11° m\12'56 26° m\59'03 0° \$\Z	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47 0°32'03	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 21 00:48 14948 Sep 30 22:05	23° II 10'28 0° II 10'28 0° II 2° II 7'07 0° II 3° II 15' II 15° II 15° II 18°	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45 1.36568 AU 0°01'32
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 max. Earth dist. asc. node superior conj minimum elong	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 19 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 18 12:52 14947 Oct 18 11:13 14947 Oct 25 23:18 14947 Oct 27 10:03 14947 Nov 14 07:06	27° \$\O5'31\) 0° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 4° \$\mathbf{m}\) 8° \$\mathbf{m}\) 20'45 7° \$\mathbf{m}\) 10' \$\mathbf{m}\) 26'55 30° \$\mathbf{A}\) 29° \$\O20'39\) 25° \$\O7'31\) 22° \$\O32'32\) 22° \$\O29'09\) 0° \$\mathbf{m}\) 12'21 0° \$\mathbf{m}\) 0° \$\mathbf{m}\) 23° \$\mathbf{A}\) 36'07 0° \$\mathbf{m}\) 1° \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 11' \$\mathbf{m}\) 21'27 11' \$\mathbf{m}\) 12'56 26' \$\mathbf{m}\) 28° \$\mathbf{F}\) 28° \$\mathbf{F}\) 28° \$\mathbf{F}\) 21'18	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47 0°32'03	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 23 21:00 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 21 10:48 14948 Sep 30 22:05	23° II 10'28 0° II 12° II 10'07 0° II 3° II 21'15 15° II 10'01 18° II 10'02 15° II 10'04 13° II	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45 1.36568 AU 0°01'32
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 max. Earth dist. asc. node superior conj minimum elong evening rise	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 21 16:45 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 18 12:52 14947 Oct 18 11:13 14947 Oct 25 23:18 14947 Oct 27 10:03	27° \$\Osis1 \\ 0° m 4° m\41'50 8° m\20'45 7° m\15'56 1° m\33'01 1° m\26'55 30° R\O 29° \Ozo'39 25° \Ozo'31 22° \Ozo'32'32 22° \Ozo'90 0° m\12'21 0° m 0° \Ozo 23° \Ozo'36'07 0° m 1° m\11'03 4° m\16'14 11° m\21'27 11° m\12'56 26° m\59'03 0° \$\Z	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47 0°32'03	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 21 00:48 14948 Sep 30 22:05	23° II 10'28 0° II 12° II 10'07 0° II 3° II 10'08 3° II 10'01 18° II 10'01 18° II 10'02 15° II 1	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45 1.36568 AU 0°01'32
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 max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 18 12:52 14947 Oct 18 11:13 14947 Oct 27 10:03 14947 Oct 27 10:03 14947 Nov 14 07:06 14947 Nov 15 11:54	27° \$\O5'31 0° \$\text{m}\$ 4° \$\text{m}\$41'50 8° \$\text{m}\$20'45 7° \$\text{m}\$15'56 1° \$\text{m}\$33'01 1° \$\text{m}\$26'55 30° \$\text{R}\$\tau\$ 29° \$\O20'39 25° \$\O7'31 22° \$\O32'32 22° \$\O29'09 0° \$\text{m}\$12'21 0° \$\text{m}\$ 0° \$\D2 23° \$\D236'07 0° \$\text{m}\$ 1° \$\text{m}\$11'03 4° \$\text{m}\$16'14 11° \$\text{m}\$21'27 11° \$\text{m}\$12'56 26° \$\text{m}\$59'03 0° \$\text{s}' 28° \$\text{s}'52'18 0° \$\Text{s}' 0° \$\Text{s}' 56'21	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47 0°32'03	max. Earth dist. evening rise 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 behind sun end	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 21 10:48 14948 Sep 30 22:05 14948 Oct 01 02:05 14948 Oct 01 02:05 14948 Oct 01 01:58 14948 Oct 01 08:21 14948 Oct 01 08:21 14948 Oct 01 08:21	23° II 10'28 0° II 12° II 10'07 0° II 3° II 21'15 15° II 10'01 18° II 10'02 15° II 10'04 13° II	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45 1.36568 AU 0°01'32
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 max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 18 12:52 14947 Oct 18 11:13 14947 Oct 25 23:18 14947 Oct 27 10:03 14947 Nov 14 07:06 14947 Nov 16 14:34 14947 Nov 16 14:34 14947 Nov 16 14:34 14947 Nov 26 00:23	27° \$\alpha 05'31 0° \$\text{m}\$ 4° \$\text{m}\$41'50 8° \$\text{m}\$20'45 7° \$\text{m}\$15'56 1° \$\text{m}\$33'01 1° \$\text{m}\$26'55 30° \$\alpha \alpha 29° \$\alpha 20'39 25° \$\alpha 07'31 22° \$\alpha 22'32 22° \$\alpha 29'09 0° \$\text{m}\$12'21 0° \$\text{m}\$ 0° \$\text{m}\$ 23° \$\text{m}\$36'07 0° \$\text{m}\$ 1° \$\text{m}\$11'03 4° \$\text{m}\$16'14 11° \$\text{m}\$12'27 11° \$\text{m}\$12'27 11° \$\text{m}\$12'56 26° \$\text{m}\$59'03 0° \$\text{s}\$ 28° \$\text{s}\$52'18 0° \$\text{s}\$ 0° \$\text{s}\$56'21 4° \$\text{s}\$41'17	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47 0°32'03	max. Earth dist. evening rise 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	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 25 18:03 14948 Jul 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 23 21:00 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 21 10:48 14948 Sep 30 22:05 14948 Oct 01 02:05 14948 Oct 01 02:05 14948 Oct 01 01:58 14948 Oct 01 01:58 14948 Oct 01 08:21 14948 Oct 01 08:21 14948 Oct 01 08:21 14948 Oct 03 17:06 14948 Oct 03 17:06 14948 Oct 00 04:57	23° II 10'28 0° II 12° IT'07 0° I 3° II 21'15 15° II 1'00 18° II 22° II 1'00 18° II 1'02 15° II 1'03 13° II 1'55 6° II 1'32 12° II 15'55 24° II 15'55 24° II 1'55 24° II 1'55 24° II 1'55 24° II 1'55 24° II 1'03 0° II 11° II 10'35	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45 1.36568 AU 0°01'32
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 max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	14947 Jul 18 23:34 14947 Jul 21 03:07 14947 Jul 25 04:10 14947 Jul 31 20:27 14947 Aug 04 04:58 14947 Aug 09 18:20 14947 Aug 10 23:48 14947 Aug 11 12:26 14947 Aug 15 10:41 14947 Aug 20 18:04 14947 Aug 21 16:45 14947 Sep 03 17:00 14947 Sep 03 12:05 14947 Oct 09 13:49 14947 Oct 12 21:47 14947 Oct 13 12:15 14947 Oct 18 12:52 14947 Oct 18 11:13 14947 Oct 25 23:18 14947 Oct 27 10:03 14947 Nov 14 07:06 14947 Nov 15 11:54 14947 Nov 16 14:34	27° \$\O5'31 0° \$\text{m}\$ 4° \$\text{m}\$41'50 8° \$\text{m}\$20'45 7° \$\text{m}\$15'56 1° \$\text{m}\$33'01 1° \$\text{m}\$26'55 30° \$\text{R}\$\tau\$ 29° \$\O20'39 25° \$\O7'31 22° \$\O32'32 22° \$\O29'09 0° \$\text{m}\$12'21 0° \$\text{m}\$ 0° \$\D2 23° \$\D236'07 0° \$\text{m}\$ 1° \$\text{m}\$11'03 4° \$\text{m}\$16'14 11° \$\text{m}\$21'27 11° \$\text{m}\$12'56 26° \$\text{m}\$59'03 0° \$\text{s}' 28° \$\text{s}'52'18 0° \$\Text{s}' 0° \$\Text{s}' 56'21	18°50'36 2°44'14 2°43'18 0.66254 AU 26°29'39 1.34476 AU 0°31'47 0°32'03 21°04'11	max. Earth dist. evening rise 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 behind sun end	14948 May 30 11:07 14948 Jun 03 20:08 14948 Jun 11 19:13 14948 Jun 23 11:29 14948 Jun 04 20:22 14948 Jul 07 10:58 14948 Jul 14 18:35 14948 Jul 18 12:50 14948 Jul 23 21:00 14948 Jul 23 22:05 14948 Jul 23 22:05 14948 Jul 25 00:57 14948 Jul 29 06:50 14948 Aug 04 02:53 14948 Aug 06 15:31 14948 Aug 16 03:56 14948 Aug 29 11:46 14948 Sep 17 17:38 14948 Sep 21 00:48 14948 Sep 21 10:48 14948 Sep 30 22:05 14948 Oct 01 02:05 14948 Oct 01 02:05 14948 Oct 01 01:58 14948 Oct 01 08:21 14948 Oct 01 08:21 14948 Oct 01 08:21	23° II 10'28 0° II 12° IT'07 0° I 3° II 21'15 15° II 1'00 18° II 22° II 1'00 18° II 1'02 15° II 1'02 10° II 1'02 1	1.45637 AU -0.6m 19°39'33 3°03'30 3°02'37 0.67643 AU 25°11'45 1.36568 AU 0°01'32

desc. node	14049 Nov. 02 11:50	14° ₹ 20′20		avanina aat	14949 Oct 19 19:54	25°M38'24	
	14948 Nov 02 11:50			evening set			
retrograde	14948 Nov 05 15:30	14° 🗷 49'09		desc. node	14949 Oct 20 09:12	25°M30'36	2026120
evening set	14948 Nov 07 14:47	14° ∡ ³38'31		inferior conj	14949 Oct 28 01:14	21°M18'26	
inferior conj	14948 Nov 16 09:22	10° ∡ ³37′07		minimum elong	14949 Oct 27 19:10		2°23'24
minimum elong	14948 Nov 15 23:33	10° ∡ 52′20	4°07'42	min. Earth dist.	14949 Oct 31 01:20	19° ™ 09'48	0.56693 AU
min. Earth dist.	14948 Nov 18 12:34	9° ∡ 17'46	0.55174 AU	morning rise	14949 Nov 04 15:23	16° M ∠28'00	
morning rise	14948 Nov 24 06:43	6° ∡ ¹22'02		direct	14949 Nov 10 11:58	15° ™ 05'49	
direct	14948 Nov 29 08:38	5° ∡ ¹25′00		morning max el	14949 Nov 24 16:17	22°M25'15	26°20'51
morning max el	14948 Dec 13 04:14	12° ∡ 18'12	24°44'00	•	14949 Dec 01 09:45	0° ∡ ¹	
. 8	14948 Dec 26 16:07	0°ප		asc. node	14949 Dec 14 19:40	21° х 01'26	
asc. node	14948 Dec 27 22:36	2° ろ 08'23		use. Houe	14949 Dec 19 10:53	0°る	
morning set	14948 Dec 27 22:30 14949 Jan 07 22:00	23° る 35'41		marning got	14949 Dec 23 08:45	8°る10'47	
morning set				morning set	14949 Dec 23 08.43	8 01047	
	14949 Jan 10 20:36	0° ≈					
				superior conj	14949 Dec 30 03:05	23° る 06'43	1°37'54
superior conj	14949 Jan 14 16:29	8° ≈ 26′10	1°35'50	minimum elong	14949 Dec 30 02:54	23° る 05'46	1°38'51
minimum elong	14949 Jan 14 17:23	8° ≈ 31'07	1°36'37	max. Earth dist.	14949 Dec 30 23:23	24° る 59'47	1.31380 AU
max. Earth dist.	14949 Jan 16 17:36	12° ≈ 54'32	1.32196 AU		14950 Jan 02 05:39	0° ≈	
evening rise	14949 Jan 22 01:28	24°≈09'35		evening rise	14950 Jan 06 02:19	8° ≈ 19'05	
•	14949 Jan 24 23:33	0° ₩		desc. node	14950 Jan 16 08:01	28° ≈ 09'27	
desc. node	14949 Jan 29 11:20	8° ¥ 28'25			14950 Jan 17 09:23	0°) €	
4000. 11040	14949 Feb 11 18:53	0°Υ		evening max el	14950 Feb 06 18:36	27°) 43'20	27°23'10
avanina may al	14949 Feb 24 10:30	15° Υ 13'13	27°34'45	evening max er	14950 Feb 09 08:20	0°Υ	27 23 17
evening max el			27-34-45				
retrograde	14949 Mar 10 07:03	22° Y 41'35		retrograde	14950 Feb 20 18:10	5°Υ03'13	
evening set	14949 Mar 17 03:03	20° Y 19'19		evening set	14950 Feb 27 13:30	2° Y 57'02	
min. Earth dist.	14949 Mar 20 21:31	17° Y ′08'47	0.63152 AU	min. Earth dist.	14950 Mar 03 08:52	0° Υ 08'11	0.60987 AU
inferior conj	14949 Mar 23 17:37	14° Y 19'09	-0°40'12		14950 Mar 03 12:44	30°Ŗ ℋ	
minimum elong	14949 Mar 23 18:55	14° Y 15′52	0°39'48	inferior conj	14950 Mar 06 12:17	27°) €22'44	-1°59'58
asc. node	14949 Mar 25 19:33	12° Y 18'33		minimum elong	14950 Mar 06 16:37	27°) 13′09	1°58'04
morning rise	14949 Mar 30 13:25	9° Y '06'04		asc. node	14950 Mar 12 17:01	22° ¥ 55'36	
direct	14949 Apr 01 22:18	8° Y 39'08		morning rise	14950 Mar 13 22:56	22°) 27'58	
morning max el	14949 Apr 08 10:28	11° Y ′58'06	17°46'14	direct	14950 Mar 16 01:42	22° \ 09'15	
morning max er	14949 Apr 20 19:21	0°8	17 4014	morning max el	14950 Mar 23 02:41	25°) 41'25	17°53'33
. ,	-	_		morning max er		25 π 4125 0° Υ	17 33 33
morning set	14949 Apr 24 17:19	6° 8 44'12			14950 Mar 26 18:15		
desc. node	14949 Apr 27 13:30	11° 8 38'01		morning set	14950 Apr 07 17:25	20° Y ′03'34	
					14950 Apr 13 05:39	0°8	
superior conj	14949 May 07 02:24	27° 8 41'16	-1°10'51	desc. node	14950 Apr 14 10:06	2° 8 06'32	
minimum elong	14949 May 06 19:34	27° 8 13'09	1°10'44				
	14949 May 08 12:18	$\Pi^{\circ}0$		superior conj	14950 Apr 18 10:21	9° 8 07'46	-0°31'55
max. Earth dist.	14949 May 13 05:08	7° Ⅲ 34'44	1.44630 AU	minimum elong	14950 Apr 18 07:28	8° 8 55'21	0°32'00
evening rise	14949 May 22 05:59	21° Ⅱ 42′00		max. Earth dist.	14950 Apr 25 19:47	21° 8 34'03	1.43017 AU
8 21	14949 May 27 17:02	0ಂತಾ			14950 May 01 01:26	0°II	
	14949 Jun 18 06:02	$0 {\circ} \Omega$		evening rise	14950 May 02 02:20	1° Ⅱ 38'15	
avanina may al	14949 Jun 20 11:53	2° Ω 24'16	20°43'01	evening rise	•	0°95	
evening max el			20 43 01		14950 May 21 04:36		21057120
asc. node	14949 Jun 21 17:16	3° Ω 34'21		evening max el	14950 Jun 03 07:15	16°5516'12	21°5/28
retrograde	14949 Jun 28 17:32	7° Ω 08'43		asc. node	14950 Jun 08 14:16	20° © 31'30	
evening set	14949 Jul 02 22:15	5° Ω 29'22		retrograde	14950 Jun 12 15:35	21° © 44'15	
	14949 Jul 07 17:02	30° ₹ 5		evening set	14950 Jun 17 07:26	19° © 48'16	
inferior conj	14949 Jul 08 04:07	29° 5 21'48	3°10'09	inferior conj	14950 Jun 22 13:31	13° © 30'33	3°05'37
minimum elong	14949 Jul 08 04:13	29° 5 21'29	3°09'14	minimum elong	14950 Jun 22 12:40	13° © 33'30	3°04'34
min. Earth dist.	14949 Jul 08 18:19	28° 5 32'46	0.68569 AU	min. Earth dist.	14950 Jun 22 14:24	13° 5 27'28	0.69015 AU
morning rise	14949 Jul 13 09:53	23°500'41		morning rise	14950 Jun 27 17:43	7° © 15'45	
direct	14949 Jul 18 18:15	20°5540'13		direct	14950 Jul 02 13:37	5° © 12'31	
desc. node	14949 Jul 24 12:54	22°5947'56		desc. node	14950 Jul 11 10:10	10°508'08	
	14949 Jul 29 14:29	27°508'47	23°43'54		14950 Jul 12 02:57	10°50000	22°15'12
morning max el			23 43 34	morning max el			22 13 12
	14949 Aug 01 06:26	0° Ω			14950 Jul 27 06:32	0°Ω	
	14949 Aug 23 02:09	0° ™		morning set	14950 Aug 14 07:01	27° Ω 22'42	
morning set	14949 Sep 02 15:49	17° Mp 06'17			14950 Aug 15 21:48	0° ™	
max. Earth dist.	14949 Sep 06 12:13	23° TD 44'42	1.38923 AU	max. Earth dist.	14950 Aug 19 13:22	6° ™ 01'49	1.41272 AU
	14949 Sep 10 00:22	0∘ ⊽					
				superior conj	14950 Aug 27 09:02	19° m 31'22	-1°08'52
superior conj	14949 Sep 14 02:16	7° ≙ 31'54	-0°32'50	minimum elong	14950 Aug 27 14:26	19° m 55'23	1°08'21
minimum elong	14949 Sep 14 04:38	7° Ω 43'01		5	14950 Sep 02 03:46	0∘ ⊽	
asc. node	14949 Sep 17 18:39	14° Ω 32'59		asc. node	14950 Sep 04 15:12	4° Ω 35'27	
evening rise	14949 Sep 23 04:15	25° Ω 04'25		evening rise	14950 Sep 04 13:12	8° ⊆ 31'00	
evening floc	14949 Sep 25 17:08	0°M		Cronnig 1150	14950 Sep 00 17:45 14950 Sep 19 07:06	0°M	
	=		10050140	avani: 1	=		10017120
evening max el	14949 Oct 09 09:40	21°M32'19	18°50'40	evening max el	14950 Sep 22 16:07	4°M00'13	18°16'30
retrograde	14949 Oct 17 22:31	25° ™ 50′15		retrograde	14950 Sep 30 01:06	7°M45'30	

evening set	14950 Oct 02 03:24	7° M 27'57			14951 Aug 25 15:02	0∘ ⊽	
desc. node	14950 Oct 07 06:38	4°M40'00		evening max el	14951 Sep 06 04:34	17° ≏ 01'20	18°02'28
inferior conj	14950 Oct 09 14:55	2°M46'30	-0°44'46	retrograde	14951 Sep 12 20:31	20° £ 27'32	
minimum elong	14950 Oct 09 13:16	2°M49'58	0°43'39	evening set	14951 Sep 15 06:18	20° ჲ 00'27	
Č	14950 Oct 12 22:51	30° ₽ Ω		inferior conj	14951 Sep 22 00:42	14° Ω 59'04	0°39'22
min. Earth dist.	14950 Oct 12 21:28	0°M02'46	0.58745 AU	minimum elong	14951 Sep 22 01:54	14° ≏ 56'12	0°39'04
morning rise	14950 Oct 16 19:43	27° ≏ 19'46		desc. node	14951 Sep 24 04:07	12° ≙ 54'05	
direct	14950 Oct 23 04:52	25° ≙ 30'57		min. Earth dist.	14951 Sep 25 03:05	11° Ω 59'59	0.61022 AU
	14950 Nov 02 21:18	0° M		morning rise	14951 Sep 28 18:34	9° ჲ 03'33	
morning max el	14950 Nov 06 12:05	3°M11'07	27°28'26	direct	14951 Oct 05 09:57	6° ჲ 50'38	
	14950 Nov 26 00:42	0° ∡ ″		morning max el	14951 Oct 19 15:34	14° ≏ 45'42	27°57'50
asc. node	14950 Dec 01 16:38	10° ∡ ¹22'17			14951 Nov 01 00:26	0° M	
morning set	14950 Dec 07 16:32	22° х 33'33		asc. node	14951 Nov 18 13:31	0° ∡ 03′21	
	14950 Dec 11 02:52	0°ප			14951 Nov 18 12:51	0° ∡ ¹	
				morning set	14951 Nov 21 19:26	6° ∡ ³39'25	
superior conj	14950 Dec 14 14:37	7° る 46'16	1°34'01	max. Earth dist.	14951 Nov 27 14:04	19° ₹ 05'00	1.31322 AU
minimum elong	14950 Dec 14 13:27	7° る 39'43	1°34'56				
max. Earth dist.	14950 Dec 14 07:29	7° る 06'17	1.31083 AU	superior conj	14951 Nov 29 01:15	22° ₹ 19'51	1°24'12
evening rise	14950 Dec 21 08:29	22° る 40'06		minimum elong	14951 Nov 28 23:19	22° ₰ 09'06	1°24'58
	14950 Dec 24 20:35	0° ≈			14951 Dec 02 11:59	0°ප	
desc. node	14951 Jan 03 04:49	17° ≈ 20′36		evening rise	14951 Dec 05 17:58	7° る 07'48	
	14951 Jan 11 15:07	0°) €			14951 Dec 17 11:04	0° ≈	
evening max el	14951 Jan 19 19:56	9° ∺ 23'24	26°36'55	desc. node	14951 Dec 21 01:43	5° ≈ 50'27	
retrograde	14951 Feb 02 19:22	16°) 32′44		evening max el	14952 Jan 01 12:43	20° ≈ 10′13	25°18'34
evening set	14951 Feb 09 06:58	14°) (49′25		retrograde	14952 Jan 15 09:11	27° ≈ 07'52	
min. Earth dist.	14951 Feb 13 09:36	12° 米 11′55	0.58775 AU	evening set	14952 Jan 21 03:32	25° ≈ 52'30	
inferior conj	14951 Feb 16 13:42	9° ∺ 46'58		min. Earth dist.	14952 Jan 26 01:02	23° ≈ 11'03	0.56759 AU
minimum elong	14951 Feb 16 21:22	9° ∺ 32'19	3°24'01	inferior conj	14952 Jan 28 18:44	21° ≈ 22'24	
morning rise	14951 Feb 24 15:02	5° ∺ 13'31		minimum elong	14952 Jan 29 03:52	21° ≈ 07'16	4°47'21
direct	14951 Feb 26 14:57	4° ¥ 59′28		morning rise	14952 Feb 06 06:52	17° ≈ 10′50	
asc. node	14951 Feb 27 14:27	5° ∺ 02'58		direct	14952 Feb 08 09:39	16° ≈ 57'45	
morning max el	14951 Mar 06 13:51	8° ¥ 55′28	18°20'27	asc. node	14952 Feb 14 11:54	18° ≈ 54'19	
	14951 Mar 20 04:43	0° Υ		morning max el	14952 Feb 17 15:49	21° ≈ 28′09	19°08'44
morning set	14951 Mar 22 07:48	4° Ƴ 01'35			14952 Feb 24 06:53	0° ∀	
		00		morning set	14952 Mar 05 07:54	18°) €23'53	
superior conj	14951 Mar 31 16:25	21° Y 34'59	0°04'53		14952 Mar 11 04:32	0 ° Υ	
minimum elong	14951 Mar 31 16:46	21° Y 36'31	0°04'34				
behind sun begin	14951 Mar 31 09:42	21° Υ 04'17		superior conj	14952 Mar 13 16:09	4° Y 49'24	0°36'26
behind sun end	14951 Mar 31 23:49	22° Y 08'41		minimum elong	14952 Mar 13 18:15	4°Υ59'32	0°36'07
desc. node	14951 Apr 01 06:41	22° Y 39'49		desc. node	14952 Mar 18 03:13	13°Υ13'30	1 20 602 111
79 at 12 a	14951 Apr 05 09:28	0°8	1 40061 477	max. Earth dist.	14952 Mar 20 12:20	17° Υ 33'12	1.38693 AU
max. Earth dist.	14951 Apr 08 05:55	4° 8 55'38	1.40961 AU	evening rise	14952 Mar 24 06:37	24°Υ10'35	
evening rise	14951 Apr 12 17:53	12° 8 27'12			14952 Mar 27 17:05	0° B	
	14951 Apr 23 22:38	0° I I			14952 Apr 16 16:23	0°П 140Поэго	24020121
	14951 May 16 19:03	0°©	22017156	evening max el	14952 Apr 28 12:14	14° ∏ 02'38	24°38'21
evening max el asc. node	14951 May 16 22:39	0°509'01	23°17'56	retrograde asc. node	14952 May 10 03:47 14952 May 12 08:35	20° ∏ 51′08	
retrograde	14951 May 26 11:22	6° © 20'39			,	20° П 30'18 18° П 28'47	
Č	14951 May 27 11:25	4°909'57		evening set	14952 May 15 18:37	18 Щ2847 13°Щ21'26	0.68460 AU
evening set	14951 Jun 01 14:46 14951 Jun 05 07:29	4°90937 30°R∏		min. Earth dist.	14952 May 20 06:34 14952 May 21 07:26	13°Щ21'26 11°Щ58'26	0.68460 AU 2°25'15
inferior conj	14951 Jun 06 23:15	30 қ <u>п</u> 27° П 44'15	2°50'38	minimum elong	14952 May 21 07:20 14952 May 21 05:21	11 Щ38 26 12°Щ05'25	
minimum elong	14951 Jun 06 21:39	27° II 44'13	2°49'23	morning rise	14952 May 26 16:16	6° П 00'03	2 23 49
min. Earth dist.	14951 Jun 06 11:11	28° I I25'56	0.68977 AU	direct	14952 May 30 11:46	4° П 36'48	
morning rise	14951 Jun 12 04:29	20 П 23 30 21° П 37'06	0.007// AC	morning max el	14952 Jun 06 20:50	8° П 42'29	19°43'29
direct	14951 Jun 16 11:54	19° ∏ 53'39		desc. node	14952 Jun 14 04:27	17° ∏ 30'22	19 43 29
morning max el	14951 Jun 24 20:24	24° ∏ 40'31	20°53'16	greatest brilliancy	14952 Jun 19 19:29	25° Ⅱ 28'13	-0.6m
desc. node	14951 Jun 28 07:21	28° ∏ 27'42	20 00 10	5. canobi offinancy	14952 Jun 22 21:10	0°95	V.V.II
	14951 Jun 29 13:53	0°95		morning set	14952 Jul 03 02:06	15° © 27'45	
	14951 Jul 20 15:04	0°N			14952 Jul 12 10:54	0°Ω	
morning set	14951 Jul 24 23:01	6° Ω 40'25		max. Earth dist.	14952 Jul 14 09:51		1.44878 AU
max. Earth dist.	14951 Aug 01 20:38	19° Ω 11'55	1.43332 AU			. 555.57	
	14951 Aug 08 09:59	0° m)		superior conj	14952 Jul 19 03:39	10° Ω 38'17	-2°06'14
		4		minimum elong	14952 Jul 19 09:32	11° Ω 01'56	
superior conj	14951 Aug 08 18:09	0° Mp 34′22	-1°42'11	<i>U</i>	14952 Jul 30 22:14	0° m)	
minimum elong	14951 Aug 09 01:40	1° Mp 06'01		evening rise	14952 Aug 01 21:01	3° Mp 16'48	
evening rise	14951 Aug 20 17:03	21° m/ 19'34		asc. node	14952 Aug 08 08:25	14° m) 08'51	
asc. node	14951 Aug 22 11:47	24° m) 28'59			14952 Aug 19 08:54	0∘ ⊽	

evening max el	14952 Aug 19 19:14	0° ჲ 26'09	18°07'17		14953 Jul 05 03:12	0°N	
retrograde	14952 Aug 26 04:07	3° ≏ 46'43		evening rise	14953 Jul 14 01:03	14° Ω 12'41	
evening set	14952 Aug 28 22:22	3° ჲ 06'48		•	14953 Jul 23 22:25	0° m	
	14952 Sep 02 00:31	30°₽, Mp		asc. node	14953 Jul 26 05:05	3°₩29'28	
inferior conj	14952 Sep 04 02:42	27° Mp 47'56	1°42'36	evening max el	14953 Aug 03 08:48	14° Mp 06'13	18°29'55
minimum elong	14952 Sep 04 05:01	27° Mp41'37	1°41'44	retrograde	14953 Aug 09 19:50	17° m 34'24	
min. Earth dist.	14952 Sep 06 18:35	24° m 54'07	0.63260 AU	evening set	14953 Aug 12 23:04	16°M 39'07	
morning rise	14952 Sep 10 09:35	21°M 34'03		inferior conj	14953 Aug 18 16:53	11° m 04'38	2°26'32
desc. node	14952 Sep 10 01:37	21°M/49'25		minimum elong	14953 Aug 18 19:09	10° m 57'48	2°25'35
direct	14952 Sep 17 01:16	19° m 03'53		min. Earth dist.	14953 Aug 20 19:16	8° m∕ 33′27	0.65267 AU
morning max el	14952 Oct 01 00:10	27° Mp 04'35	27°48'39	morning rise	14953 Aug 24 14:01	4°M/41'34	
	14952 Oct 03 18:28	0∘ ⊽		desc. node	14953 Aug 27 23:08	2°M 38'11	
	14952 Oct 24 16:52	0°M₊		direct	14953 Aug 31 00:52	2°Mp03'24	
asc. node	14952 Nov 04 10:20	19°M58'29		morning max el	14953 Sep 13 11:00	9° m 56'41	27°06'02
morning set	14952 Nov 04 15:11	20°M22'54			14953 Sep 29 06:28	0∘ ⊽	
	14952 Nov 09 06:27	0° ∡ ¹			14953 Oct 17 03:38	0°M	
max. Earth dist.	14952 Nov 09 15:14	0° ∡ ¹46'50	1.32113 AU	morning set	14953 Oct 19 00:54	3°M36'19	
				asc. node	14953 Oct 22 07:01	10°M01'50	
superior conj	14952 Nov 12 09:03	6° ∡ ¹42'20	1°08'28	max. Earth dist.	14953 Oct 23 07:37	12°M06'22	1.33463 AU
minimum elong	14952 Nov 12 06:44	6° ₹ 29'44	1°09'01				
evening rise	14952 Nov 19 04:53	21° ∡ ³37'42		superior conj	14953 Oct 27 11:43	20°M46'44	
	14952 Nov 23 04:32	0°る		minimum elong	14953 Oct 27 09:37	20°M35'36	0°47'11
desc. node	14952 Dec 06 22:43	23° る 24'02			14953 Oct 31 19:14	0°×7	
	14952 Dec 12 15:43	0°≈	22020145	evening rise	14953 Nov 03 15:20	6° ₰ 04'07	
evening max el	14952 Dec 12 23:10		23°39'45	1 1	14953 Nov 16 07:58	0°る	
retrograde	14952 Dec 26 09:57	6°≈58'34		desc. node	14953 Nov 23 19:50	9°る40'07	21957140
evening set	14952 Dec 31 00:58	6°≈12'07	0.55240.411	evening max el	14953 Nov 24 10:47	10°る17'32 16°る28'45	21°57′49
min. Earth dist.	14953 Jan 06 10:10 14953 Jan 08 03:20	3°≈08'09 2°≈07'29	0.55240 AU	retrograde	14953 Dec 06 22:50	16°る2843 16°る04'37	
3	14953 Jan 08 08:38	2 ≈07 29 1°≈59'40	-5 46 26 5°46'57	evening set	14953 Dec 10 05:51 14953 Dec 18 21:12	10 30437 12° 3 12'28	5056107
minimum elong	14953 Jan 11 22:42	1 ≈3940 30°Rる	3 40 37	inferior conj minimum elong	14953 Dec 18 21.12 14953 Dec 18 17:33		5°54'52
morning rise	14953 Jan 16 17:56	30 KO 28° ろ 13'22		min. Earth dist.	14953 Dec 18 17:33	12 3 1733	0.54488 AU
direct	14953 Jan 19 08:59	26 3 1322 27° 3 56'19		morning rise	14953 Dec 27 06:07	8°る25'04	0.34488 AU
uncet	14953 Jan 26 04:43	0°≈		direct	14953 Dec 27 00:07 14953 Dec 30 19:05	7° る 57'25	
morning max el	14953 Jan 30 04:37	0 ~ 3°≈08'55	20°19'57	morning max el	14954 Jan 12 02:27	13° る 53'13	21°53'22
asc. node	14953 Jan 31 09:17	4°≈21'43	20 1737	asc. node	14954 Jan 18 06:37	13 3 33 13	21 33 22
use. Hode	14953 Feb 16 02:51	0° ∀		use. Houe	14954 Jan 23 22:33	0°≈	
morning set	14953 Feb 17 14:20	3° ¥ 00'51		morning set	14954 Feb 02 00:30	17° ≈ 44'31	
morning sec	1,565166 1, 11,26	5 7(0001		morning sec	14954 Feb 07 18:58	0°)	
superior conj	14953 Feb 25 05:07	18°) 38'45	1°01'34			• /.	
minimum elong	14953 Feb 25 07:45		1°01'28	superior conj	14954 Feb 09 03:37	2°) 52′15	1°19'59
max. Earth dist.	14953 Mar 02 19:17	29°) € 37'25	1.36468 AU	minimum elong	14954 Feb 09 05:55	3°) €04'21	1°20'16
	14953 Mar 03 00:02	0° Y		max. Earth dist.	14954 Feb 13 07:42	11°) €28'25	1.34489 AU
desc. node	14953 Mar 04 23:46	3° Ƴ 44'11		evening rise	14954 Feb 17 13:52	19° ¥ 50′56	
evening rise	14953 Mar 06 14:27	6° Ƴ 41'52		desc. node	14954 Feb 19 20:19	24°) €07'31	
	14953 Mar 20 12:55	9° 8			14954 Feb 23 02:03	$0^{\circ}\Upsilon$	
evening max el	14953 Apr 11 01:48	27° 8 55'06	25°51'34		14954 Mar 14 13:11	9° 8	
	14953 Apr 13 07:39	$\Pi^{\circ}0$		evening max el	14954 Mar 24 15:43	11° 8 39'28	26°50'05
retrograde	14953 Apr 23 15:34	5° Ⅱ 08'53		retrograde	14954 Apr 06 21:41	19° 8 06'09	
asc. node	14953 Apr 29 05:53	3°Ⅲ02′04		evening set	14954 Apr 13 08:58	16° 8 34'06	
evening set	14953 Apr 29 17:19	2° Ⅱ 39′05		asc. node	14954 Apr 16 03:15	13° 8 58'19	
	14953 May 02 08:58	30° ₹ 8		min. Earth dist.	14954 Apr 17 08:40	12° 8 36'44	0.66087 AU
min. Earth dist.	14953 May 03 22:28	28° 8 07'28	0.67487 AU	inferior conj	14954 Apr 19 10:52	10° 8 09'56	1°01'00
inferior conj	14953 May 05 12:03	26° 8 08'48	1°48'58	minimum elong	14954 Apr 19 09:22	10° 8 14'19	0°59'54
minimum elong	14953 May 05 09:56	26° 8 15'29	1°47'33	morning rise	14954 Apr 25 11:04	4° 8 33'26	
morning rise	14953 May 11 03:11	20° 8 20'26		direct	14954 Apr 28 09:27	3° 8 46'06	
direct	14953 May 14 11:37	19° 8 16'17		morning max el	14954 May 04 18:03	7° 8 06'12	18°11'05
morning max el	14953 May 21 04:30	22° 8 52'49	18°48'57	desc. node	14954 May 18 22:16	27° 8 01'43	
	14953 May 27 03:10	0°Ⅱ 5°Ⅲ° 42.5			14954 May 20 18:49	0°II	
desc. node	14953 Jun 01 01:25	7° Ⅱ 04'35	0.0	morning set	14954 May 23 22:48	5° Ⅱ 05'03	
greatest brilliancy	14953 Jun 03 23:53	11° Ⅱ 30'30	-0.8m				
morning set	14953 Jun 12 12:28	24° Ⅱ 40'39		superior conj	14954 Jun 08 02:53	29° Ⅱ 09'13	
n a e	14953 Jun 15 22:36	0°95	1 45762 433	minimum elong	14954 Jun 07 19:17	28° Ⅱ 39'27	2°01'44
max. Earth dist.	14953 Jun 27 03:45	17° 5 28'02	1.45763 AU	m at each	14954 Jun 08 15:52	0.ಪ	1 45000 111
	14052 1 20 10 00	1000555140	2012147	max. Earth dist.	14954 Jun 10 00:12	2°506'21	1.45902 AU
superior conj	14953 Jun 28 18:03	19°957'49		evening rise	14954 Jun 24 05:04	24°©10'47	
minimum elong	14953 Jun 28 17:11	19° © 54'23	4 14 4 3		14954 Jun 27 23:12	$0^{\circ}\Omega$	

1 . 2112	14054 X 1 05 15 07	110 0 46101	0.7		1405534 10 22 07	001150104	1022102
greatest brilliancy	14954 Jul 05 15:27	11° Ω 46′01	-0.7m	superior conj	14955 May 18 23:07	8°II56'04	
asc. node	14954 Jul 13 01:51	22° Ω 24'11	10000122	minimum elong	14955 May 18 14:36	8° Ⅱ 21'55	
evening max el	14954 Jul 17 18:42	27° Ω 55′00	19°09'32	max. Earth dist.	14955 May 23 20:12	16° Ⅱ 41'38	1.45293 AU
	14954 Jul 20 04:29	0° m			14955 Jun 01 09:23	0ංම	
retrograde	14954 Jul 24 16:23	1° Mp 43'53		evening rise	14955 Jun 03 17:38	3° © 35'47	
evening set	14954 Jul 28 05:05	0°m/31'41		greatest brilliancy	14955 Jun 18 13:41	25°5548'32	-0.6m
	14954 Jul 28 22:07	30°R Ω			14955 Jun 21 12:17	0 $^{\circ}\Omega$	
inferior conj	14954 Aug 02 15:51	24° Ω 43′08	2°54'02	asc. node	14955 Jun 29 22:42	10° Ω 43'04	
minimum elong	14954 Aug 02 17:27	24° Ω 37'57	2°53'08	evening max el	14955 Jun 30 23:02	11° Ω 46'08	20°04'54
min. Earth dist.	14954 Aug 04 03:53	22° Ω 46'43	0.66905 AU	retrograde	14955 Jul 08 15:11	16° Ω 07'48	
morning rise	14954 Aug 08 05:11	18° Ω 17'30		evening set	14955 Jul 12 13:52	14° £ 38′10	
direct	14954 Aug 14 07:20	15° Ω 40'35		inferior conj	14955 Jul 17 20:42	8° Ω 36'55	3°07'44
desc. node	14954 Aug 14 20:36	15° Ω 41'45		minimum elong	14955 Jul 17 21:22	8° Ω 34'39	3°06'52
morning max el	14954 Aug 26 22:12	23° Ω 11'57	25°58'21	min. Earth dist.	14955 Jul 18 18:38	7° Ω 22'26	0.68097 AU
	14954 Sep 01 23:05	0° т р		morning rise	14955 Jul 23 04:31	2° Ω 13'14	
	14954 Sep 22 14:25	0∘ ⊽			14955 Jul 26 23:48	30° ₹ 🥯	
morning set	14954 Oct 01 21:18	16° ≙ 12'41		direct	14955 Jul 28 19:39	29° 5 45'14	
max. Earth dist.	14954 Oct 05 14:27	23° £ 12'18	1.35326 AU		14955 Jul 30 17:28	$0^{\circ}\Omega$	
asc. node	14954 Oct 09 03:40	0°M09'49		desc. node	14955 Aug 01 18:00	0° £ 44'33	
	14954 Oct 09 01:41	0°M₊		morning max el	14955 Aug 09 09:00	6° Ω 40′27	24°35'04
					14955 Aug 27 12:51	0° m)	
superior conj	14954 Oct 11 06:44	4°ML27'13	0°19'34	morning set	14955 Sep 14 00:16	28° Mp 02'30	
minimum elong	14954 Oct 11 05:38	4°M21'33	0°19'49		14955 Sep 15 03:02	0∘ ত	
evening rise	14954 Oct 18 23:23	20°M22'48		max. Earth dist.	14955 Sep 17 14:19	4° £ 25'10	1.37559 AU
•	14954 Oct 23 17:44	0° ∡ ¹			•		
evening max el	14954 Nov 06 08:44	20° ҂ ¹44'50	20°28'27	superior conj	14955 Sep 24 14:51	17° £ 35'44	-0°12'40
desc. node	14954 Nov 10 17:02	24° х 13′55		minimum elong	14955 Sep 24 15:41	17° ≏ 39'45	0°12'19
retrograde	14954 Nov 17 09:23	26° х 14′01		behind sun begin	14955 Sep 24 11:18	17° ≏ 18'31	
evening set	14954 Nov 19 16:00	26° ₹ 01'04		behind sun end	14955 Sep 24 20:04	18° ഫ 01'00	
inferior conj	14954 Nov 28 13:11	22° ∡ 06'12	-5°03'16	asc. node	14955 Sep 26 00:15	20° £ 18'29	
minimum elong	14954 Nov 28 03:25	22° х 20'26	4°59'59		14955 Sep 30 21:18	0°M	
min. Earth dist.	14954 Nov 29 21:52	21° х 18'35	0.54661 AU	evening rise	14955 Oct 03 02:42	4°M27'36	
morning rise	14954 Dec 06 14:31	18° ₹ 07'10			14955 Oct 18 01:09	0° ∡ 7	
direct	14954 Dec 11 03:45	17° ₹ '22'39		evening max el	14955 Oct 19 21:07	2° ₹ 100'18	19°19'53
morning max el	14954 Dec 24 13:30	23° х 56'14	23°41'29	desc. node	14955 Oct 28 14:19	6° ∡ 741'37	1, 1, 0,
morning max er	14954 Dec 30 00:17	0°ਰ	23 112)	retrograde	14955 Oct 29 06:41	6° х 43′03	
asc. node	14955 Jan 05 03:50	8° ろ 53'23		evening set	14955 Oct 31 03:47	6° х 32'33	
use. node	14955 Jan 16 08:17	0° ≈		inferior conj	14955 Nov 08 17:41	2° × ⁷ 23'36	-3°28'06
morning set	14955 Jan 17 12:19	2°≈28'55		minimum elong	14955 Nov 08 09:06	2° × ⁷ 37'44	
morning set	14)33 Jan 17 12.17	2 ~2033		min. Earth dist.	14955 Nov 11 07:26		0.55733 AU
superior conj	14955 Jan 24 08:40	17° ≈ 21'36	1°31'52	mm. Earth dist.	14955 Nov 12 10:26	30°RM	0.55755 AO
minimum elong	14955 Jan 24 10:09	17 ≈ 2130	1°32'30	morning rise	14955 Nov 16 12:09	27°M54'12	
max. Earth dist.	14955 Jan 27 03:47	17 ≈2940 23°≈21'52	1.32899 AU	direct	14955 Nov 21 22:24	26°M47'12	
max. Latin dist.	14955 Jan 30 08:07	0° \	1.32899 AU	direct	14955 Dec 01 05:00	20 11 6 47 12	
evening rise	14955 Feb 01 01:25	3° ∺ 28'59		morning max el	14955 Dec 05 23:03	3° ∡ 752'17	25°28'04
desc. node	14955 Feb 06 16:54	14° H 19'02		asc. node	14955 Dec 23 00:58	27° ₹ 25′25	23 28 04
desc. node	14955 Feb 15 21:19	0°Υ		asc. node		27 メ ・23 23	
avanina may al		0 γ 25° Υ 04'27	27°26'28	mamina sat	14955 Dec 24 11:09	0 3 17° る 09'01	
evening max el	14955 Mar 07 04:51	0° 8	27 20 28	morning set	14956 Jan 01 23:58 14956 Jan 07 20:12	0°≈	
	14955 Mar 13 07:21	2° 8 34'08			14930 Jan 07 20.12	0 &	
retrograde	14955 Mar 20 21:13	0° 8 06'00		gumariar agni	14956 Jan 08 17:52	2900001	1°37'27
evening set	14955 Mar 27 15:23	0°8Υ		superior conj		2°≈00'04	
: E 4 E 4	14955 Mar 27 18:38	30° ₹ 1 26° Y 40'01	0.64214.411	minimum elong	14956 Jan 08 18:19	2°≈02'33	1°38'20
min. Earth dist.	14955 Mar 31 11:06		0.64314 AU	max. Earth dist.	14956 Jan 10 06:37	5°≈22'53	1.31779 AU
inferior conj	14955 Apr 03 01:15	23°Y55'05	0°00'28	evening rise	14956 Jan 15 22:09	17°≈28'48	
minimum elong	14955 Apr 03 01:15	23°Υ55'06	0°00'10		14956 Jan 22 06:20	0° ∀	
transit middle	14955 Apr 03 01:15	23°Υ55'06	0°00'10	desc. node	14956 Jan 24 13:32	4°) 13′18	
transit begin	14955 Apr 02 22:09	24° Y 03′21			14956 Feb 10 10:48	0° Υ	
transit end	14955 Apr 03 04:21	23° Y 46′51		evening max el	14956 Feb 17 15:16	7° Y 57'41	27°34'03
asc. node	14955 Apr 03 00:40	23°Y56'40		retrograde	14956 Mar 02 13:24	15° Y 23'25	
morning rise	14955 Apr 09 13:14	18° Y 32'49		evening set	14956 Mar 09 10:04	13° ℃ 06'41	0.62247 : ***
direct	14955 Apr 12 02:42	17° Y 59′22	15050110	min. Earth dist.	14956 Mar 13 04:10	10° ℃ 06'46	0.62247 AU
morning max el	14955 Apr 18 11:06	21°Υ15'10	17°50'19	inferior conj	14956 Mar 16 04:09	7° Υ 16'41	
	14955 Apr 25 06:10	0° 8		minimum elong	14956 Mar 16 06:38	7° Y 10'45	1°11'41
morning set	14955 May 05 12:46	16° 8 48'44		asc. node	14956 Mar 19 22:06	4° Υ 01'24	
desc. node	14955 May 05 19:00	17° 8 14'54		morning rise	14956 Mar 23 06:10	2°Υ11'24	
	14955 May 13 11:00	Π $^{\circ}$ 0		direct	14956 Mar 25 12:11	1° Y 48′25	
				morning max el	14956 Apr 01 04:42	5° Y 11′25	17°47'10

morning set	14956 Apr 17 02:13	29° Y 38'44		morning set	14957 Mar 31 09:02	13° Y 16′06	
	14956 Apr 17 07:03	0°8		desc. node	14957 Apr 08 12:16	28° Y 10′11	
desc. node	14956 Apr 21 15:40	7° 8 39'23			14957 Apr 09 12:52	0° 8	
superior conj	14956 Apr 28 17:26	19° 8 45'42		superior conj	14957 Apr 10 11:15	1° 8 39'16	
minimum elong	14956 Apr 28 12:15	19° 8 23'59	0°54'20	minimum elong	14957 Apr 10 09:54	1° 8 33'19	0°16'03
	14956 May 04 22:48	Π $^{\circ}0$		max. Earth dist.	14957 Apr 18 01:08	14° 8 39'15	1.42180 AU
max. Earth dist.	14956 May 05 12:58	0° Ⅱ 57'08	1.44008 AU	evening rise	14957 Apr 23 10:39	23° 8 27'19	
evening rise	14956 May 13 06:50	13° Ⅱ 10′05			14957 Apr 27 14:22	Π $^{\circ}0$	
	14956 May 24 10:38	0 \circ \odot			14957 May 18 11:09	0 \circ \odot	
evening max el	14956 Jun 12 21:21	25° © 37'32	21°13'29	evening max el	14957 May 26 14:46	9° 5 29'46	22°31'19
asc. node	14956 Jun 15 19:37	28° 5 014'19		asc. node	14957 Jun 02 16:41	14° 5 542'54	
	14956 Jun 18 16:12	$0^{\circ}\Omega$		retrograde	14957 Jun 05 11:27	15° © 17'09	
retrograde	14956 Jun 21 14:05	0° Ω 40′39		evening set	14957 Jun 10 08:01	13° © 14'52	
S	14956 Jun 24 07:38	30°Rூ		inferior conj	14957 Jun 15 14:53	6° © 53'21	3°00'33
evening set	14956 Jun 25 23:25	28°954'02		minimum elong	14957 Jun 15 13:41	6°957'31	2°59'25
inferior conj	14956 Jul 01 05:04	22°5641'39	3°09'33	min. Earth dist.	14957 Jun 15 10:17	7° © 09'22	0.69056 AU
minimum elong	14956 Jul 01 04:45	22°5942'45	3°08'35	morning rise	14957 Jun 20 19:11	0°9541'23	0.09 00 0 110
min. Earth dist.	14956 Jul 01 13:31	22° © 12'15	0.68819 AU	morning risc	14957 Jun 21 16:57	30°RⅡ	
morning rise	14956 Jul 06 09:51	16°\$22'49	0.00019 AU	direct	14957 Jun 25 09:44	28° ∏ 46'15	
•	14956 Jul 11 12:49	10 \$2249 14°\$09'24		unect	14957 Jun 29 10:43	20 п 40 13	
direct							21020101
desc. node	14956 Jul 18 15:21	17°521'33	22005141	morning max el	14957 Jul 04 10:23	4°901'34	21°39'01
morning max el	14956 Jul 21 20:12	20°516'53	23°05'41	desc. node	14957 Jul 05 12:36	5° © 09'13	
	14956 Jul 30 03:09	0 $^{\circ}\Omega$		_	14957 Jul 24 04:14	0°Ω	
	14956 Aug 19 17:23	0° ™		morning set	14957 Aug 05 10:22	18° Ω 45'50	
morning set	14956 Aug 25 05:30	8° M 55'32		max. Earth dist.	14957 Aug 11 15:54	28° Ω 49'43	1.42197 AU
max. Earth dist.	14956 Aug 29 12:51	16° Mp 11'24	1.39940 AU		14957 Aug 12 08:55	0° m	
superior conj	14956 Sep 06 08:08	0° ჲ 03'10	-0°48'10	superior conj	14957 Aug 19 06:13	11° m /40'06	-1°23'42
minimum elong	14956 Sep 06 11:46	0° ≏ 19'54	0°47'39	minimum elong	14957 Aug 19 12:46	12°Mp08'33	1°23'14
	14956 Sep 06 07:26	0ಂ ⊽		asc. node	14957 Aug 29 17:23	0° ჲ 23'39	
asc. node	14956 Sep 11 20:49	10° ≙ 24'16			14957 Aug 29 12:13	0∘ ⊽	
evening rise	14956 Sep 15 22:17	18° ≙ 10'47		evening rise	14957 Aug 30 06:21	1° ≙ 22'50	
	14956 Sep 22 05:48	0° M		evening max el	14957 Sep 15 07:50	26° ≏ 48'44	18°08'14
evening max el	14956 Oct 01 22:11	14°M04'30	18°33'34		14957 Sep 20 00:31	0° M	
retrograde	14956 Oct 09 22:05	18° M 07'08		retrograde	14957 Sep 22 08:10	0°M23'52	
evening set	14956 Oct 11 20:53	17° M 53'29		evening set	14957 Sep 24 13:32	0°M02'42	
desc. node	14956 Oct 14 11:43	16°M55'48		3	14957 Sep 24 16:53	30°R Ω	
inferior conj	14956 Oct 19 18:50	13°M24'39	-1°41'43	desc. node	14957 Oct 01 09:11	25° Ω 31'24	
minimum elong	14956 Oct 19 14:46	13°M32'28	1°39'28	inferior conj	14957 Oct 01 17:32	25° Ω 12'49	-0°06'33
min. Earth dist.	14956 Oct 22 23:24	10°M58'33	0.57515 AU	minimum elong	14957 Oct 01 17:19	25° ⊆ 13'18	0°06'09
morning rise	14956 Oct 27 05:12	8°M17'52	0.57515710	transit middle	14957 Oct 01 17:19	25° ⊆ 13'18	0°06'09
direct	14956 Nov 02 07:48	6°M44'06		transit hilddle	14957 Oct 01 17:19	25° £ 20'16	0 00 09
		14°M14'03	26°53'58	transit end		25° £ 06'19	
morning max el	14956 Nov 16 14:17	0° √	20 33 38		14957 Oct 01 20:26	23 2 00 19 22° 2 19'48	0.59705 AU
	14956 Nov 29 04:45			min. Earth dist.	14957 Oct 04 23:31		0.59705 AU
asc. node	14956 Dec 08 22:00	16° ∡ ³31'12		morning rise	14957 Oct 08 17:47	19° £ 32'51	
	14956 Dec 15 15:02	0°る		direct	14957 Oct 15 06:37	17° Ω 32'49	0.50.4.51.40
morning set	14956 Dec 16 09:39	1° る 39'16		morning max el	14957 Oct 29 13:24	25° Ω 20'21	27°45'42
		_			14957 Nov 02 21:08	0° ™	
superior conj	14956 Dec 23 05:05	16° ප් 40'50	1°36'59		14957 Nov 22 14:59	0°⊀	
minimum elong	14956 Dec 23 04:29	16° る 37'24	1°37'57	asc. node	14957 Nov 25 18:57	6° ∡ 01'44	
max. Earth dist.	14956 Dec 23 13:37	17° る 28'29	1.31179 AU	morning set	14957 Nov 30 15:36	15° ₹ 55'32	
	14956 Dec 29 06:07	0° ≈		max. Earth dist.	14957 Dec 06 21:26	29° ∡ ³32'27	1.31118 AU
evening rise	14956 Dec 30 01:30	1° ≈ 43'32			14957 Dec 07 02:22	0°る	
desc. node	14957 Jan 10 10:16	23° ≈ 42'35					
	14957 Jan 14 05:14	0° ∀		superior conj	14957 Dec 07 16:30	1°る18'52	1°30'34
evening max el	14957 Jan 29 20:37	20°) €06'46	27°07'54	minimum elong	14957 Dec 07 14:58	1° る 10'19	1°31'27
retrograde	14957 Feb 12 20:53	27°) €23′20		evening rise	14957 Dec 14 09:20	16° る 08'20	
evening set	14957 Feb 19 13:45	25° ¥ 26′01			14957 Dec 21 04:00	0° ≈	
min. Earth dist.	14957 Feb 23 11:02	22°) 43'29	0.60030 AU	desc. node	14957 Dec 28 07:07	12° ≈ 37'42	
inferior conj	14957 Feb 26 15:53	20°) €04'23			14958 Jan 10 08:20	0°) €	
minimum elong	14957 Feb 26 21:41	19°) 52′20		evening max el	14958 Jan 11 18:35	1°) €24'23	26°07'05
morning rise	14957 Mar 06 09:01	15°) 18'39	-	retrograde	14958 Jan 25 17:30	8°) 28'42	
asc. node	14957 Mar 06 19:33	15°) 12'29		evening set	14958 Jan 31 22:44	6° X 57'13	
direct	14957 Mar 08 09:53	15° ¥ 02'28		min. Earth dist.	14958 Feb 05 07:52	4°) 19'47	0.57875 AU
morning max el	14957 Mar 15 19:18	18°) 43'46	18°02'34	inferior conj	14958 Feb 08 08:55	2°) (08'47	
morning max or	14957 Mar 23 23:32	0°Υ	10 02 34	minimum elong	14958 Feb 08 17:37	1°) 53'07	
	17/3/ IVIAI 23 23.32	v i		mminum ciong	17,50 FCU U0 17.37	1 N330/	T 0044

	14958 Feb 11 12:17	30°R≈		minimum elong	14959 Jan 20 13:17	13° ≈ 09'19	5°17'12
morning rise	14958 Feb 16 15:33	27°≈44'21		morning rise	14959 Jan 28 19:18	9°≈18'57	0 1, 12
direct	14958 Feb 18 15:40	27°≈31'14		direct	14959 Jan 31 02:16	9° ≈ 04'43	
asc. node	14958 Feb 21 17:00	28° ≈ 03'21		asc. node	14959 Feb 08 14:24	12° ≈ 37'05	
	14958 Feb 25 04:32	0°) €		morning max el	14959 Feb 09 23:38	13° ≈ 52'13	19°36'12
morning max el	14958 Feb 27 02:59	1°) 41′09	18°38'13		14959 Feb 21 03:45	0° ∀	
morning set	14958 Mar 15 04:00	27° ¥ 25'30		morning set	14959 Feb 27 07:09	11° ¥ 55'23	
S	14958 Mar 16 11:54	0° Υ		C			
				superior conj	14959 Mar 07 07:09	27° ¥ 57'57	0°47'56
superior conj	14958 Mar 24 01:18	14° Ƴ 27'20	0°19'00	minimum elong	14959 Mar 07 09:36	28° ¥ 10′02	0°47'40
minimum elong	14958 Mar 24 02:34	14° Ƴ 33'15	0°18'39	•	14959 Mar 08 08:07	0° Y	
desc. node	14958 Mar 26 08:50	18° Ƴ 43'46		desc. node	14959 Mar 13 05:23	9° Y 16'43	
max. Earth dist.	14958 Mar 31 09:15	27° Ƴ 41'09	1.40010 AU	max. Earth dist.	14959 Mar 13 15:45	10° Ƴ 04'36	1.37728 AU
	14958 Apr 01 17:20	0°B		evening rise	14959 Mar 17 08:30	16° Ƴ 44'37	
evening rise	14958 Apr 04 11:16	4° 8 39'48			14959 Mar 25 04:48	0°B	
	14958 Apr 20 18:03	Π°			14959 Apr 15 04:56	$\Pi^{\circ}0$	
evening max el	14958 May 09 05:18	23° II 23'33	23°52'41	evening max el	14959 Apr 21 18:50	7° Ⅱ 17'52	25°10'52
retrograde	14958 May 20 05:49	29° Ⅱ 51'33		retrograde	14959 May 03 20:13	14° Ⅱ 17'58	
asc. node	14958 May 20 13:50	29° Ⅱ 51′04		asc. node	14959 May 07 11:04	13° Ⅲ 22'49	
evening set	14958 May 25 14:04	27° Ⅲ 35'41		evening set	14959 May 09 15:56	11° Ⅱ 51'48	
min. Earth dist.	14958 May 30 06:46	22° Ⅱ 07'16	0.68815 AU	min. Earth dist.	14959 May 14 00:48	7° Ⅲ 00′02	0.68102 AU
inferior conj	14958 May 31 00:12	21° Ⅲ 07'48	2°41'11	inferior conj	14959 May 15 07:06	5° Ⅱ 21′07	2°11'14
minimum elong	14958 May 30 22:20	21° Ⅱ 14′08	2°39'50	minimum elong	14959 May 15 04:56	5° Ⅲ 28'12	2°09'48
morning rise	14958 Jun 05 06:37	15° Ⅱ 04'06			14959 May 20 00:52	30° ₹ 8	
direct	14958 Jun 09 08:58	13° Ⅱ 29'04		morning rise	14959 May 20 18:17	29° 8 27'01	
morning max el	14958 Jun 17 06:31	17° Ⅱ 56'48	20°21'49	direct	14959 May 24 09:03	28° 8 12'00	
desc. node	14958 Jun 22 09:45	23° Ⅱ 48'37			14959 May 29 00:37	Π $\circ 0$	
	14958 Jun 27 01:23	0°€		morning max el	14959 May 31 10:08	2° Ⅲ 03′18	19°18'25
morning set	14958 Jul 15 18:53	27° 5 944'58		desc. node	14959 Jun 09 06:47	13° Ⅱ 06′07	
	14958 Jul 17 05:49	$0^{\circ}\Omega$		greatest brilliancy	14959 Jun 13 03:14	18° Ⅱ 41'49	-0.7m
max. Earth dist.	14958 Jul 25 02:02	12° Ω 20′37	1.44068 AU		14959 Jun 20 14:59	0 \circ \odot	
				morning set	14959 Jun 24 22:35	6° 9 37'07	
superior conj	14958 Jul 31 05:20	22° Ω 18′09		max. Earth dist.	14959 Jul 07 18:12	26° © 31'19	1.45346 AU
minimum elong	14958 Jul 31 12:48	22° Ω 48'54	1°54'02		14959 Jul 09 23:12	0 \circ Ω	
	14958 Aug 04 20:11	0° m)					
evening rise							
evening rise	14958 Aug 12 22:06	13° m 51'10		superior conj	14959 Jul 11 05:40	2° Ω 00'32	
asc. node	14958 Aug 16 14:00	20° m 12'02		minimum elong	14959 Jul 11 05:40 14959 Jul 11 09:11	2° Ω 14'27	
asc. node	14958 Aug 16 14:00 14958 Aug 22 10:24	20° № 12'02 0° <u>Ф</u>				2° Ω 14'27 25° Ω 24'04	
•	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43	20° M 12'02 0° Ω 10° Ω 01'25	18°02'16	minimum elong evening rise	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16	2° Ω 14'27 25° Ω 24'04 0° m	
asc. node evening max el retrograde	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17	20° M 12'02 0° Ω 10° Ω 01'25 13° Ω 23'14	18°02'16	minimum elong evening rise asc. node	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40	2° N 14'27 25° N 24'04 0° M 9° M 44'55	2°12'36
asc. node evening max el retrograde evening set	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43	20° M 12'02 0° Ω 10° Ω 01'25 13° Ω 23'14 12° Ω 50'55		minimum elong evening rise asc. node evening max el	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16	2°\$\Omega\$14'27 25°\$\Omega\$24'04 0°\$\omega\$9°\$\omega\$44'55 23°\$\omega\$3'52	
asc. node evening max el retrograde evening set inferior conj	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42	20° M 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40	1°08'42	minimum elong evening rise asc. node evening max el retrograde	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57	2°\$\Omega 14'27 25°\$\Omega 24'04 0°\$\Omega 90\$\$\Omega 44'55 23°\$\Omega 33'52 26°\$\Omega 56'08	2°12'36
asc. node evening max el retrograde evening set inferior conj minimum elong	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57	1°08'42 1°08'05	minimum elong evening rise asc. node evening max el retrograde evening set	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59	2°\$\Omega\$14'27 25°\$\Omega\$24'04 0°\$\mathbf{m}\$ 9°\$\mathbf{m}\$44'55 23°\$\mathbf{m}\$33'52 26°\$\mathbf{m}\$56'08 26°\$\mathbf{m}\$09'52	2°12'36 18°14'39
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46	1°08'42	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22	2° \$\Omega 14'27 25° \$\Omega 24'04 0° \$\mathre{m}\$ 9° \$\mathre{m}\$ 44'55 23° \$\mathre{m}\$ 33'52 26° \$\mathre{m}\$ 56'08 26° \$\mathre{m}\$ 90'52 20° \$\mathre{m}\$ 43'47	2°12'36 18°14'39 2°03'24
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17	1°08'42 1°08'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46	2° \$\alpha 14'27 25° \$\alpha 24'04 0° \$\mathref{m}\$ 9° \$\mathref{m}\$ 44'55 23° \$\mathref{m}\$ 33'52 26° \$\mathref{m}\$ 56'08 26° \$\mathref{m}\$ 09'52 20° \$\mathref{m}\$ 43'47 20° \$\mathref{m}\$ 36'55	2°12'36 18°14'39 2°03'24 2°02'28
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26	1°08'42 1°08'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35	2° \Pi 14'27 25° \Pi 24'04 0° \pi 9° \pi 44'55 23° \pi 33'52 26° \pi 56'08 26° \pi 09'52 20° \pi 43'47 20° \pi 36'55 17° \pi 58'03	2°12'36 18°14'39 2°03'24
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M	1°08'42 1°08'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55	2° \Pi 14'27 25° \Pi 24'04 0° \pi 9° \pi 44'55 23° \pi 33'52 26° \pi 56'08 26° \pi 09'52 20° \pi 43'47 20° \pi 36'55 17° \pi 58'03 14° \pi 24'55	2°12'36 18°14'39 2°03'24 2°02'28
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19	1°08'42 1°08'05	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11	2° \(\Omega \) 14'27 25° \(\Omega \) 24'04 0° \(\omega \) 9° \(\omega \) 44'55 23° \(\omega \) 33'52 26° \(\omega \) 56'08 26° \(\omega \) 09'52 20° \(\omega \) 43'47 20° \(\omega \) 36'55 17° \(\omega \) 58'03 14° \(\omega \) 24'55 13° \(\omega \) 29'18	2°12'36 18°14'39 2°03'24 2°02'28
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° m 16'19 0° Ω	1°08'42 1°08'05 0.62000 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 18:22 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56	2° \(\Omega \) 14'27 25° \(\Omega \) 24'04 0° \(\omega \) 9° \(\omega \) 44'55 23° \(\omega \) 33'52 26° \(\omega \) 56'08 26° \(\omega \) 09'52 20° \(\omega \) 43'47 20° \(\omega \) 36'55 17° \(\omega \) 58'03 14° \(\omega \) 24'55 13° \(\omega \) 29'18 11° \(\omega \) 50'34	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° m 16'19 0° Ω 7° Ω14'04	1°08'42 1°08'05 0.62000 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17	2° \(\Omega \) 14'27 25° \(\Omega \) 24'04 0° \(\omega \) 9° \(\omega \) 44'55 23° \(\omega \) 33'52 26° \(\omega \) 90'52 20° \(\omega \) 43'47 20° \(\omega \) 36'55 17° \(\omega \) 58'03 14° \(\omega \) 24'55 13° \(\omega \) 29'18 11° \(\omega \) 50'34 19° \(\omega \) 49'20	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19 0° Ω 7° Ω14'04 0° M	1°08'42 1°08'05 0.62000 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU
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	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19 0° Ω 7° Ω14'04 0° M 25° M 49'20	1°08'42 1°08'05 0.62000 AU	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19	2° \(\Omega \) 14'27 25° \(\Omega \) 24'04 0° \(\omega \) 9° \(\omega \) 44'55 23° \(\omega \) 33'52 26° \(\omega \) 56'08 26° \(\omega \) 09'52 20° \(\omega \) 43'47 20° \(\omega \) 36'55 17° \(\omega \) 58'03 14° \(\omega \) 24'55 13° \(\omega \) 29'18 11° \(\omega \) 50'34 19° \(\omega \) 49'20 0° \(\omega \) 0° \(\omega \)	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU
asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise direct morning max el	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19 0° Ω 7° Ω14'04 0° M 25° M 49'20 29° M 52'11	1°08'42 1°08'05 0.62000 AU	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34	2° £ 14'27 25° £ 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° £ 0° m 13° m 23'47	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU
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	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 20 23:51 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14	20° m 12'02 0° \(\odots\) 10° \(\odots\) 13° \(\odots\) 23'14 12° \(\odots\) 5'55 7° \(\odots\) 4' \(\odots\) 4' \(\odots\) 4' \(\odots\) 3' \(\odots\) 11'7 1° \(\odots\) 30° \(\odots\) 29° \(\odots\) 16'19 0° \(\odots\) 7° \(\odots\) 14'04 0° \(\odots\) 25° \(\odots\) 49'20 29° \(\odots\) 15'2'11 0° \(\odots\)	1°08'42 1°08'05 0.62000 AU 27°58'24	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \Pi 0° m 13° m 23'47 15° m 48'36	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10
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	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19 0° Ω 7° Ω14'04 0° M 25° M 49'20 29° M 52'11	1°08'42 1°08'05 0.62000 AU	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34	2° £ 14'27 25° £ 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° £ 0° m 13° m 23'47	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU
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.	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R m 29° m 16'19 0° Ω 7° Ω14'04 0° m 25° m 49'20 29° m 52'11 0° ズ 11° ズ 25'04	1°08'42 1°08'05 0.62000 AU 27°58'24	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.	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 22 20:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34 14959 Nov 03 00:14	2° \Pi 14'27 25° \Pi 24'04 0° \mathref{m} 9° \mathref{m} 44'55 23° \mathref{m} 33'52 26° \mathref{m} 56'08 26° \mathref{m} 90'52 20° \mathref{m} 43'47 20° \mathref{m} 36'55 17° \mathref{m} 58'03 14° \mathref{m} 24'55 13° \mathref{m} 29'18 11° \mathref{m} 50'34 19° \mathref{m} 49'20 0° \sigma 0° \mathref{m} 13° \mathref{m} 23'47 15° \mathref{m} 48'36 22° \mathref{m} 58'47	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10
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	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 20 23:51 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 17:14 14958 Nov 20 02:13	20° m 12'02 0° \(\odots\) 10° \(\odots\) 13° \(\odots\) 23'14 12° \(\odots\) 5'55 7° \(\odots\) 4' \(\odots\) 3' \(\odots\) 11' 1' \(\odots\) 30' \(\odots\) 29' \(\odots\) 16'19 0° \(\odots\) 7' \(\odots\) 11' \(\odots\) 25' \(\odots\) 11' \(\odots\) 11' \(\odots\) 15' \(\odots\) 48'11	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15	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.	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 30 12:34 14959 Nov 06 08:02	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$ 0° m 13° m 23'47 15° m 48'36 22° m 58'47	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01
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 minimum elong	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 20 23:51 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13	20° m 12'02 0° a 10° a01'25 13° a23'14 12° a50'55 7° a41'40 7° a36'57 4° a42'46 3° a51'17 1° a37'26 30° R m 29° m 16'19 0° a 7° a14'04 0° m 25° m 49'20 29° m 52'11 0° \$\frac{1}{2}\$ 11° \$\frac{1}{2}\$ 25'04	1°08'42 1°08'05 0.62000 AU 27°58'24	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.	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 18:22 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34 14959 Nov 06 08:02 14959 Nov 06 08:02	2° \Pi 14'27 25° \Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \Pi 0° m 13° m 23'47 15° m 48'36 22° m 58'47 0° \Rightarrow 03'32 29° m 51'06	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10
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	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 20 23:51 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° m 16'19 0° Ω 7° Ω14'04 0° M 25° M.49'20 29° M.52'11 0° 🖈 11° 🛣 25'04	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 30 12:34 14959 Nov 06 08:02 14959 Nov 06 08:02 14959 Nov 06 07:23	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$ 0° m 13° m 23'47 15° m 48'36 22° m 58'47 0° \$\strugg 03'32 29° m 51'06 0° \$\strugg '	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01
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 minimum elong	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 22 02:09 14958 Nov 21 24:00 14958 Nov 28 19:38 14958 Nov 28 19:38	20° m 12'02 0° a 10° a01'25 13° a23'14 12° a50'55 7° a41'40 7° a36'57 4° a42'46 3° a51'17 1° a37'26 30° R m 29° m 16'19 0° a 7° a14'04 0° m 25° m 49'20 29° m 52'11 0° x 11° x 25'04	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15	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.	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 02 22:33 14959 Oct 29 07:34 14959 Nov 06 08:02 14959 Nov 06 08:02 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 06 07:23	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$ 0° m 13° m 23'47 15° m 48'36 22° m 58'47 0° \$\star{9}\$03'32 29° m 51'06 0° \$\star{9}\$ 15° \$\star{9}\$06'42	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01
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 minimum elong evening rise	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 20 23:51 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 22 02:09 14958 Nov 21 24:00 14958 Nov 28 19:38 14958 Nov 28 12:42 14958 Dec 14 15:39	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19 0° Ω 7° Ω14'04 0° M 25° M 49'20 29° M 52'11 0° 🛣 11° 🛣 25'04 15° 🛣 48'11 15° 🛣 36'18 0° ♂ 37'34 0° ♂ 0° ※	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 03 20:55 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 02 22:33 14959 Oct 29 07:34 14959 Nov 06 08:02 14959 Nov 06 08:02 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 06 07:23	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$ 0° m 13° m 23'47 15° m 48'36 22° m 58'47 0° \$\sqrt{0}03'32 29° m 51'06 0° \$\sqrt{1}\$ 15° \$\sqrt{0}06'42 0° \$\Sqrt{0}\$	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01
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 minimum elong evening rise desc. node	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 11 19:13 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 22 02:09 14958 Nov 28 19:38 14958 Nov 28 12:42 14958 Dec 14 15:39 14958 Dec 15 04:04	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R M 29° M 16'19 0° Ω 7° Ω14'04 0° M 25° M 49'20 29° M 52'11 0° ¾ 11° ¾ 25'04 15° ¾ 48'11 15° ¾ 36'18 0° ♂ 37'34 0° ♂ 0° ≈ 0° ≈ 45'36	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15 1°18'55	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 03 20:55 14959 Sep 10 10:56 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Nov 06 08:02 14959 Nov 06 08:02 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 02 14:35 14959 Dec 02 01:07	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$ 0° m 13° m 23'47 15° m 48'36 22° m 58'47 0° \$\sqrt{0}0'33'22 29° m 51'06 0° \$\sqrt{1}5° \$\sqrt{0}0'42 0° \$\Pi\$ 17° \$\Pi\$ 48'59	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01 1°00'26
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 minimum elong evening rise desc. node evening max el	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 22 02:09 14958 Nov 28 19:38 14958 Nov 28 12:42 14958 Dec 14 15:39 14958 Dec 15 04:04 14958 Dec 24 08:14	20° m 12'02 0° Ω 10° Ω01'25 13° Ω23'14 12° Ω50'55 7° Ω41'40 7° Ω36'57 4° Ω42'46 3° Ω51'17 1° Ω37'26 30° R m 29° m 16'19 0° Ω 7° Ω14'04 0° m 25° m 49'20 29° m 52'11 0° ¾ 11° ¾ 25'04 15° ¾ 48'11 15° ¾ 36'18 0° ♂ 37'34 0° ♂ 0° ≈ 0° ≈ 45'36 11° ≈ 52'07	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34 14959 Nov 06 08:02 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 06 07:23 14959 Nov 07 01:35 14959 Nov 08 07:23 14959 Nov 08 07:23 14959 Nov 09 07:23 14959 Nov 09 07:23 14959 Nov 09 07:23	2° \$\Pi 14'27 25° \$\Pi 24'04 0° m 9° m 44'55 23° m 33'52 26° m 56'08 26° m 09'52 20° m 43'47 20° m 36'55 17° m 58'03 14° m 24'55 13° m 29'18 11° m 50'34 19° m 49'20 0° \$\Pi\$ 0° m 13° m 23'47 15° m 48'36 22° m 58'47 0° \$\Pi\$ 03'32 29° m 51'06 0° \$\Pi\$ 15° \$\Pi\$ 06'42 0° \$\Pi\$ 17° \$\Pi\$ 48'59 21° \$\Pi\$ 50'52	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01 1°00'26
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 minimum elong evening rise desc. node evening max el retrograde	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 22 02:09 14958 Nov 22 02:09 14958 Nov 28 19:38 14958 Nov 28 12:42 14958 Dec 14 15:39 14958 Dec 15 04:04 14958 Dec 24 08:14 14959 Jan 07 01:18	20° m 12'02 0° n 10° n01'25 13° n23'14 12° n50'55 7° n41'40 7° n36'57 4° n42'46 3° n51'17 1° n37'26 30° nm 29° m 16'19 0° n 25° m 49'20 29° m 52'11 0° x 11° x 25'04 15° x 48'11 15° x 36'18 0° 37'34 0° n 0° n 0° n 18' n52'07 18' n52'07 18' n52'07	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15 1°18'55	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34 14959 Nov 06 08:02 14959 Nov 06 08:02 14959 Nov 06 07:23	2° \$\Pi14'27 25° \$\Pi24'04 0° m 9° m44'55 23° m33'52 26° m56'08 26° m09'52 20° m43'47 20° m36'55 17° m58'03 14° m24'55 13° m29'18 11° m50'34 19° m49'20 0° \$\Pi\$ 0° m 13° m23'47 15° m48'36 22° m58'47 0° \$\Pi\$06'42 0° \$\Pi\$ 17° \$\Pi48'59 21° \$\Pi50'52 28° \$\Pi21'04	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01 1°00'26
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 minimum elong evening rise desc. node evening max el retrograde evening set	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 20 02:13 14958 Nov 21 24:00 14958 Nov 28 19:38 14958 Nov 28 19:38 14958 Dec 14 15:39 14958 Dec 14 15:39 14958 Dec 24 08:14 14959 Jan 07 01:18 14959 Jan 17 09:22	20° m 12'02 0° n 10° n01'25 13° n23'14 12° n50'55 7° n41'40 7° n36'57 4° n42'46 3° n51'17 1° n37'26 30° n n 29° m 16'19 0° n 25° m 49'20 29° m 52'11 0° x 11° x 25'04 15° x 48'11 15° x 36'18 0° 37'34 0° 50 0° 80 0° 845'36 11° 852'07 18° 842'35 17° 839'50	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15 1°18'55	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 evening rise	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34 14959 Nov 06 08:02 14959 Nov 06 05:43 14959 Nov 06 07:23 14959 Dec 02 01:07 14959 Dec 05 17:45 14959 Dec 05 17:45 14959 Dec 18 20:29 14959 Dec 22 22:02	2° \$\Pi 14'27 25° \$\Pi 24'04 0° \$\pi 9° \$\pi 44'55 23° \$\pi 33'52 26° \$\pi 56'08 26° \$\pi 95'608 26° \$\pi 95'55 17° \$\pi 58'03 14° \$\pi 24'55 13° \$\pi 29'18 11° \$\pi 50'34 19° \$\pi 49'20 0° \$\Pi 0° \$\pi 13° \$\pi 23'47 15° \$\pi 48'36 22° \$\pi 58'47 0° \$\pi 03'32 29° \$\pi 51'06 0° \$\pi 15° \$\pi 06'42 0° \$\pi 17° \$\pi 48'59 21° \$\pi 50'52 28° \$\pi 21'04 27° \$\pi 45'06	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01 1°00'26
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 minimum elong evening rise desc. node evening max el retrograde	14958 Aug 16 14:00 14958 Aug 22 10:24 14958 Aug 29 21:43 14958 Sep 05 09:17 14958 Sep 07 22:43 14958 Sep 14 10:42 14958 Sep 14 12:33 14958 Sep 17 09:06 14958 Sep 18 06:42 14958 Sep 20 23:51 14958 Sep 23 22:31 14958 Sep 23 22:31 14958 Sep 27 16:09 14958 Oct 01 14:12 14958 Oct 11 19:13 14958 Oct 29 04:36 14958 Nov 12 15:48 14958 Nov 14 15:43 14958 Nov 14 17:14 14958 Nov 20 02:13 14958 Nov 22 02:09 14958 Nov 22 02:09 14958 Nov 28 19:38 14958 Nov 28 12:42 14958 Dec 14 15:39 14958 Dec 15 04:04 14958 Dec 24 08:14 14959 Jan 07 01:18	20° m 12'02 0° n 10° n01'25 13° n23'14 12° n50'55 7° n41'40 7° n36'57 4° n42'46 3° n51'17 1° n37'26 30° nm 29° m 16'19 0° n 25° m 49'20 29° m 52'11 0° x 11° x 25'04 15° x 48'11 15° x 36'18 0° 37'34 0° n 0° n 0° n 18' n52'07 18' n52'07 18' n52'07	1°08'42 1°08'05 0.62000 AU 27°58'24 1.31598 AU 1°18'15 1°18'55	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	14959 Jul 11 09:11 14959 Jul 25 16:24 14959 Jul 28 11:16 14959 Aug 03 10:40 14959 Aug 13 12:16 14959 Aug 19 20:57 14959 Aug 22 18:59 14959 Aug 28 18:22 14959 Aug 28 20:46 14959 Aug 31 04:35 14959 Sep 03 20:55 14959 Sep 05 04:11 14959 Sep 10 10:56 14959 Sep 24 05:17 14959 Oct 02 22:33 14959 Oct 22 05:19 14959 Oct 29 07:34 14959 Oct 30 12:34 14959 Nov 06 08:02 14959 Nov 06 08:02 14959 Nov 06 07:23	2° \$\Pi 14'27 25° \$\Pi 24'04 0° \$\pi 9° \$\pi 44'55 23° \$\pi 33'52 26° \$\pi 56'08 26° \$\pi 95'608 26° \$\pi 95'55 17° \$\pi 58'03 14° \$\pi 24'55 13° \$\pi 29'18 11° \$\pi 50'34 19° \$\pi 49'20 0° \$\Pi 0° \$\pi 13° \$\pi 23'47 15° \$\pi 48'36 22° \$\pi 58'47 0° \$\pi 03'32 29° \$\pi 51'06 0° \$\pi 15° \$\pi 06'42 0° \$\pi 17° \$\pi 48'59 21° \$\pi 50'52 28° \$\pi 21'04 27° \$\pi 45'06	2°12'36 18°14'39 2°03'24 2°02'28 0.64156 AU 27°34'10 1.32628 AU 1°00'01 1°00'26 22°55'31 0.54813 AU

minimum elong	14959 Dec 31 07:49	23° る 44'50	5°58'02	minimum elong	14960 Dec 09 14:17	3° る 54'33	5°38'39
morning rise	14960 Jan 08 18:59	19° る 58'27		min. Earth dist.	14960 Dec 10 08:44	3° る 28'34	0.54439 AU
direct	14960 Jan 11 18:31	19° る 37'48			14960 Dec 17 19:17	30°R ✓	
morning max el	14960 Jan 23 06:00	25° る 08'33	20°57'23	morning rise	14960 Dec 18 02:56	29° х 54'30	
asc. node	14960 Jan 26 11:46	28° る 39'56		direct	14960 Dec 22 02:01	29° ∡ ¹20'34	
	14960 Jan 27 13:17	0°≈			14960 Dec 26 05:47	0°ರ	
morning set	14960 Feb 11 15:25	26° ≈ 36′11		morning max el	14961 Jan 03 22:36	5° る 33'50	22°38'21
	14960 Feb 13 06:32	0°)		asc. node	14961 Jan 12 09:03	15° る 53'54	
					14961 Jan 20 13:07	0° ≈	
superior conj	14960 Feb 19 00:34	11° ¥ 59′02	1°10'12	morning set	14961 Jan 26 02:32	11° ≈ 21′23	
minimum elong	14960 Feb 19 03:09	12° 米 12′15	1°10'15				
max. Earth dist.	14960 Feb 24 00:37	22° 米 01′16	1.35578 AU	superior conj	14961 Feb 02 02:14	26° ≈ 21′04	1°25'48
evening rise	14960 Feb 27 23:20	29°) 32′53		minimum elong	14961 Feb 02 04:14	26° ≈ 31'43	1°26'14
desc. node	14960 Feb 28 01:53	29°) (44′48			14961 Feb 03 19:34	0° ∀	
	14960 Feb 28 05:10	0° Y		max. Earth dist.	14961 Feb 05 15:54	3°) €51'02	1.33754 AU
	14960 Mar 17 09:30	9° 8		evening rise	14961 Feb 10 04:21	12° ¥ 55'57	
evening max el	14960 Apr 03 08:22	21° 8 07'16	26°18'41	desc. node	14961 Feb 13 22:28	20° ∺ 04'12	
retrograde	14960 Apr 16 05:40	28° 8 28'20			14961 Feb 19 12:41	0 ° Υ	
evening set	14960 Apr 22 11:51	25° 8 56'30			14961 Mar 12 10:22	9° 8	
asc. node	14960 Apr 23 08:24	25° 8 11'35		evening max el	14961 Mar 16 21:56	4° 8 44'26	27°08'39
min. Earth dist.	14960 Apr 26 14:24	21° 8 40'03	0.66939 AU	retrograde	14961 Mar 30 09:19	12° 8 14'24	
inferior conj	14960 Apr 28 09:29	19° 8 28'02	1°30'05	evening set	14961 Apr 05 23:51	9° 8 43'02	
minimum elong	14960 Apr 28 07:33	19° 8 34'00	1°28'46	min. Earth dist.	14961 Apr 09 21:33	5° 8 59'27	0.65372 AU
morning rise	14960 May 04 04:10	13° 8 44'47		asc. node	14961 Apr 10 05:45	5° 8 36'49	
direct	14960 May 07 08:09	12° 8 48'14		inferior conj	14961 Apr 12 05:03	3° 8 23'14	0°36'53
morning max el	14960 May 13 20:36	16° 8 16'12	18°30'52	minimum elong	14961 Apr 12 04:04	3° 8 26'00	0°36'03
	14960 May 24 06:53	Π $\circ 0$			14961 Apr 15 10:38	30° ŖƳ	
desc. node	14960 May 26 03:40	2° Ⅱ 50′53		morning rise	14961 Apr 18 09:57	27° Y 52'35	
morning set	14960 Jun 03 17:45	16° Ⅱ 16'45		direct	14961 Apr 21 04:17	27° Y 11'43	
	14960 Jun 12 11:37	0 \circ			14961 Apr 26 23:42	9° 8	
				morning max el	14961 Apr 27 11:58	0° 8 28'51	18°00'05
superior conj	14960 Jun 19 15:32	11° © 10'52	-2°10'53	desc. node	14961 May 13 00:27	22° 8 55'30	
minimum elong	14960 Jun 19 11:19	10° © 54'26	2°11'44	morning set	14961 May 15 15:54	27° 8 14'55	
max. Earth dist.	14960 Jun 19 13:25		1.45910 AU		14961 May 17 08:18	Π °0	
	14960 Jul 01 16:01	0 \circ Ω					
evening rise	14960 Jul 05 09:47	5° Ω 53'59		superior conj	14961 May 30 03:17	20° Ⅲ 32'32	
greatest brilliancy	14960 Jul 13 19:48	19° Ω 09'33	-0.8m	minimum elong	14961 May 29 18:32	19° Ⅲ 58′01	1°50'39
asc. node	14960 Jul 20 07:22	28° Ω 55'45		max. Earth dist.	14961 Jun 02 09:16	25° Ⅱ 38'54	1.45728 AU
	14960 Jul 21 01:32	0° ™			14961 Jun 05 04:10	0 \circ	
evening max el	14960 Jul 27 00:28	7° Mp 18'12	18°44'42	evening rise	14961 Jun 15 05:25	15° © 32'34	
retrograde	14960 Aug 02 15:12	10° m 54'03			14961 Jun 24 16:42	$0^{\circ}\Omega$	
evening set	14960 Aug 05 22:17	9° m 51'50		greatest brilliancy	14961 Jun 28 14:33	5° Ω 50′08	-0.7m
inferior conj	14960 Aug 11 12:42	4° Mp 11'05	2°40'01	asc. node	14961 Jul 07 04:09	17° Ω 36'32	
minimum elong	14960 Aug 11 14:44	4° Mp 04'43	2°39'05	evening max el	14961 Jul 10 08:06	21° Ω 08'17	19°31'23
min. Earth dist.	14960 Aug 13 08:59	1° m 53'24	0.66009 AU	retrograde	14961 Jul 17 12:56	25° Ω 10′00	
	14960 Aug 14 23:47	30°R Ω		evening set	14961 Jul 21 05:43	23° Ω 50′36	
morning rise	14960 Aug 17 06:13	27° Ω 45'55		inferior conj	14961 Jul 26 14:28	17° Ω 56'40	3°01'24
desc. node	14960 Aug 22 01:39	25°Ω15'41		minimum elong	14961 Jul 26 15:41	17° Ω 52'37	3°00'32
direct	14960 Aug 23 13:36	25° Ω 07'15		min. Earth dist.	14961 Jul 27 20:33	16° Ω 17'07	0.67464 AU
	14960 Sep 02 14:31	0° ™		morning rise	14961 Aug 01 01:08	11° Ω 31′16	
morning max el	14960 Sep 05 16:43	2° m 53'54	26°39'48	direct	14961 Aug 06 22:52	8° Ω 56'59	
_	14960 Sep 26 04:48	0∘ ⊽		desc. node	14961 Aug 08 23:05	9° Ω 12'30	
morning set	14960 Oct 11 12:10	26° Ω 23'33		morning max el	14961 Aug 19 03:38	16° Ω 15'20	25°24'14
	14960 Oct 13 09:19	0° M			14961 Aug 30 13:06	0° m)	
max. Earth dist.	14960 Oct 15 12:34	4° ጤ 11'42	1.34195 AU	_	14961 Sep 19 02:40	0∘ ত	
asc. node	14960 Oct 16 09:15	5°M55'01		morning set	14961 Sep 24 01:42	8° ≏ 41'48	
				max. Earth dist.	14961 Sep 27 15:27	15° Ω 15'43	1.36233 AU
superior conj	14960 Oct 20 07:50	13°M.59'14	0°35'57	asc. node	14961 Oct 03 05:51	26° ≙ 04'01	
minimum elong	14960 Oct 20 06:02	13°M49'54	0°36'13		14061 0 : 02 22 52	270 2 2	0006:27
evening rise	14960 Oct 27 16:19	29°M31'05		superior conj	14961 Oct 03 22:39	27° Ω 27'32	0°06'27
	14960 Oct 27 21:50	0° ⊀ ⁷		minimum elong	14961 Oct 03 22:15	27° Ω 25'30	0°06'44
	14960 Nov 14 11:54	0°₹		behind sun begin	14961 Oct 03 16:27	26° ≏ 56'39	
evening max el	14960 Nov 16 08:49	1° る 59'04	21°17'34	behind sun end	14961 Oct 04 04:02	27° ≏ 54'26	
desc. node	14960 Nov 17 22:15	3° ප 25'36			14961 Oct 05 05:05	0° ™	
retrograde	14960 Nov 28 07:28	7° る 54'16		evening rise	14961 Oct 11 22:40	13°M44'46	
evening set	14960 Dec 01 02:06	7° る 36'23			14961 Oct 20 08:55	0° ∡	
inferior conj	14960 Dec 09 21:23	3° る 44'33	-5°40'40	evening max el	14961 Oct 29 13:00	12° ∡ ¹46'51	19°56'39

JJ.	14061 N 04 10-21	170.70056			140(2.0-+ 22.22.17	200 m 27100	
desc. node	14961 Nov 04 19:31	17° 🗷 08'56		evening set	14962 Oct 22 22:17	28°M37'08	
retrograde	14961 Nov 08 20:50	17° 🗷 55'41		desc. node	14962 Oct 22 16:50	28°M39'41	2042141
evening set	14961 Nov 10 21:36	17° × 744'39		inferior conj	14962 Oct 31 06:01	24°M20'01	
inferior conj	14961 Nov 19 17:17	13° ∡ ⁴45′25		minimum elong	14962 Oct 30 23:15	24°M31'53	
minimum elong	14961 Nov 19 07:15	14° √ 00'41	4°22'22	min. Earth dist.	14962 Nov 03 03:51	22°M18'12	0.56429 AU
min. Earth dist.	14961 Nov 21 16:08	12° ∡ ³34′09	0.55015 AU	morning rise	14962 Nov 07 21:21	19°M35'14	
morning rise	14961 Nov 27 15:38	9° ∡ ³35′00		direct	14962 Nov 13 15:30	18° M 17'07	
direct	14961 Dec 02 14:30	8° ≯ 41'18		morning max el	14962 Nov 27 18:57	25°M32'40	26°08'00
morning max el	14961 Dec 16 07:48	15° ≯ 129'38	24°27'59		14962 Dec 01 23:20	0° ∡ ¹	
	14961 Dec 27 18:55	0°₹		asc. node	14962 Dec 17 03:21	22° х 49'29	
asc. node	14961 Dec 30 06:14	4° ප 01'31			14962 Dec 20 21:44	0°ಕ	
morning set	14962 Jan 10 14:30	26° පි 04'35		morning set	14962 Dec 26 01:34	10° ප් 41'12	
	14962 Jan 12 09:58	0° ≈					
				superior conj	14963 Jan 01 19:39	25° る 35'30	1°37'58
superior conj	14962 Jan 17 09:20	10° ≈ 55′21	1°34'58	minimum elong	14963 Jan 01 19:39	25° る 35'28	1°38'55
minimum elong	14962 Jan 17 10:24	11° ≈ 01'10	1°35'44	max. Earth dist.	14963 Jan 02 20:11	27° る 51'54	1.31469 AU
max. Earth dist.	14962 Jan 19 14:59	15° ≈ 47'12	1.32366 AU		14963 Jan 03 19:19	0° ≈	
evening rise	14962 Jan 24 20:12	26° ≈ 44'38		evening rise	14963 Jan 08 20:05	10° ≈ 51'53	
	14962 Jan 26 11:06	0° ∀		desc. node	14963 Jan 18 15:47	29° ≈ 54'21	
desc. node	14962 Jan 31 19:06	10°) 09′27			14963 Jan 18 17:04	0°) €	
	14962 Feb 12 20:36	$0^{\circ}\mathbf{\Upsilon}$			14963 Feb 09 04:45	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	14962 Feb 27 10:22	17° Ƴ 58'12	27°33'36	evening max el	14963 Feb 09 19:12	0° Ƴ 34'55	27°27'12
retrograde	14962 Mar 13 05:59	25° Y 26'54		retrograde	14963 Feb 23 18:23	7° Y 56′12	
evening set	14962 Mar 20 01:37	23° Y 03'01		evening set	14963 Mar 02 14:19	5° Ƴ 47'06	
min. Earth dist.	14962 Mar 23 20:23	19° Ƴ 48'35	0.63461 AU	min. Earth dist.	14963 Mar 06 09:13	2° Y 55'43	0.61316 AU
inferior conj	14962 Mar 26 14:59	16° Ƴ 59'49		inferior conj	14963 Mar 09 11:55	0° Υ 08'37	
minimum elong	14962 Mar 26 15:54	16° Y 57'27	0°28'52	minimum elong	14963 Mar 09 15:45	29° ¥ 59'59	
asc. node	14962 Mar 28 03:10	15° Y 29'41	0 2002	mannam erong	14963 Mar 09 15:45	30° R ₩	1 .000
morning rise	14962 Apr 02 08:40	11° Υ 44'08		asc. node	14963 Mar 15 00:37	25° H 56'39	
direct	14962 Apr 04 18:42	11° Υ 15'36		morning rise	14963 Mar 16 20:19	25° X 11'02	
morning max el	14962 Apr 11 05:36	14° Υ 33'25	17°46'42	direct	14963 Mar 18 23:54	24° H 51'17	
morning max cr	14962 Apr 22 02:48	0° 8	17 40 42	morning max el	14963 Mar 25 22:19	28° H 20'36	17°51'20
morning set	14962 Apr 27 16:39	9° 8 29'28		morning max er	14963 Mar 27 11:31	28 γ 2030	17 31 20
desc. node		13° 8 14'20		mamina aat		22° Υ 42'15	
desc. node	14962 Apr 29 21:11	0° I		morning set	14963 Apr 10 14:14	0° 8	
	14962 May 09 21:18	0-Щ		11-	14963 Apr 14 15:47	3° 8 42'15	
	14062 Marr 10, 00,11	0° Ⅱ 44'27	1017125	desc. node	14963 Apr 16 17:51	3 642 13	
superior conj	14962 May 10 08:11				14062 4 21 12 42	100 401157	0027140
minimum elong	14962 May 10 00:49	0° Ⅱ 14'22		superior conj	14963 Apr 21 12:42	12° 8 01'57	
max. Earth dist.	14962 May 16 04:04	10° Ⅱ 07'31	1.44823 AU	minimum elong	14963 Apr 21 09:14	11° 8 47'06	
evening rise	14962 May 25 16:12	24° Ⅱ 56'42		max. Earth dist.	14963 Apr 28 19:32	_	1.43290 AU
	14962 May 28 23:48	0°9			14963 May 02 09:45	0°II	
	14962 Jun 18 23:43	0° Ω		evening rise	14963 May 05 10:23	4° ∏ 46'51	
evening max el	14962 Jun 23 09:59	5° Ω 00'37	20°32'47		14963 May 22 07:50	0°50	
asc. node	14962 Jun 24 01:01	5° Ω 37'19		evening max el	14963 Jun 06 06:04	18° © 52'34	21°45'48
retrograde	14962 Jul 01 11:53	9° Ω 38'43		asc. node	14963 Jun 10 22:00	22°5944'12	
evening set	14962 Jul 05 15:03	8° Ω 01'50		retrograde	14963 Jun 15 10:14	24°©14'04	
inferior conj	14962 Jul 10 21:05	1° Ω 55'56	3°09'53	evening set	14963 Jun 20 00:24	22° © 20'21	
minimum elong	14962 Jul 10 21:20	1° Ω 55'05	3°08'58	inferior conj	14963 Jun 25 06:18	16° © 03'55	3°07'00
min. Earth dist.	14962 Jul 11 13:16	1° Ω 00'15	0.68463 AU	minimum elong	14963 Jun 25 05:35	16° © 06'24	3°05'58
	14962 Jul 12 07:00	30° ₹ 🥯		min. Earth dist.	14963 Jun 25 09:06	15° © 54'08	0.68982 AU
morning rise	4 40 CA Y 1 4 C 0A 40	2506224110				000540107	
direct	14962 Jul 16 03:19	25° © 34'10		morning rise	14963 Jun 30 10:35	9° © 48'06	
	14962 Jul 16 03:19 14962 Jul 21 13:29	23°53410 23°511'34		morning rise direct	14963 Jun 30 10:35 14963 Jul 05 08:18	7°942'14	
desc. node				•			
desc. node morning max el	14962 Jul 21 13:29	23°511'34	23°57'16	direct	14963 Jul 05 08:18	7° 5 42'14	22°28'08
	14962 Jul 21 13:29 14962 Jul 26 20:27	23°©11'34 24°©58'50	23°57'16	direct desc. node	14963 Jul 05 08:18 14963 Jul 13 17:46	7° © 42'14 12° © 08'33	22°28'08
	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10	23°©11'34 24°©58'50 29°©47'08	23°57'16	direct desc. node	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17	7°542'14 12°508'33 13°526'54	22°28'08
	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14	23°©11'34 24°©58'50 29°©47'08 0°N	23°57'16	direct desc. node	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43	7°\$42'14 12°\$08'33 13°\$26'54 0°\$\Omega\$	22°28'08
morning max el	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29	23°911'34 24°958'50 29°947'08 0°N 0°M	23°57'16 1.38569 AU	direct desc. node morning max el	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13	7°\$42'14 12°\$08'33 13°\$26'54 0°\$ 0°\$\$\$	22°28'08 1.40935 AU
morning max el	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56	23°S11'34 24°S58'50 29°S47'08 0°N 0°M 20°M08'53		direct desc. node morning max el	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49	7°\$42'14 12°\$08'33 13°\$26'54 0°Ω 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™	
morning max el	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56	23°S11'34 24°S58'50 29°S47'08 0°N 0°M 20°M08'53 26°M40'03		direct desc. node morning max el	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49	7°\$42'14 12°\$08'33 13°\$26'54 0°Ω 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™	1.40935 AU
morning max el	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56	23°S11'34 24°S58'50 29°S47'08 0°N 0°M 20°M08'53 26°M40'03	1.38569 AU	direct desc. node morning max el morning set max. Earth dist.	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22	7°\$42'14 12°\$08'33 13°\$26'54 0°\$Ω 0°\$\(\text{N} \) 0°\$\(\text{N} \) 0°\$\(\text{N} \) 48°\$\(\text{N} \) 49'13	1.40935 AU -1°03'28
morning max el morning set max. Earth dist.	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56 14962 Sep 11 10:44	23°S11'34 24°S58'50 29°S47'08 0°N 0°M 20°M08'53 26°M40'03 0° <u>0</u>	1.38569 AU -0°27'27	direct desc. node morning max el morning set max. Earth dist. superior conj	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22 14963 Aug 30 10:40 14963 Aug 30 15:37	7°\$42'14 12°\$08'33 13°\$26'54 0°\$\Omega\$ 0°\$\mathbf{n}\$ 0°\$\mathbf{n}\$ 0°\$\mathbf{n}\$ 48°\$\mathbf{n}\$49'13	1.40935 AU -1°03'28
morning max el morning set max. Earth dist. superior conj	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56 14962 Sep 11 10:44	23°\$11'34 24°\$58'50 29°\$47'08 0°\$\Omega\$ 0°\$\Omega\$ 20°\$\Omega\$08'53 26°\$\Omega\$40'03 0°\$\Omega\$ 10°\$\Omega\$20'39	1.38569 AU -0°27'27	direct desc. node morning max el morning set max. Earth dist. superior conj	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22	7°\$42'14 12°\$08'33 13°\$26'54 0°\$\Omega\$ 0°\$\mathbf{m}\$ 0°\$\mathbf{m}\$49'13 22°\$\mathbf{m}\$27'32 22°\$\mathbf{m}\$49'45	1.40935 AU -1°03'28
morning max el morning set max. Earth dist. superior conj minimum elong	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56 14962 Sep 11 10:44 14962 Sep 17 01:03 14962 Sep 17 02:59	23°\$11'34 24°\$58'50 29°\$47'08 0°\$\Omega\$ 0°\$\Omega\$ 20°\$\Omega\$08'53 26°\$\Omega\$40'03 0°\$\Omega\$ 10°\$\Omega\$20'39 10°\$\Omega\$29'49	1.38569 AU -0°27'27	direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22 14963 Aug 30 10:40 14963 Aug 30 15:37 14963 Sep 03 14:10	7°\$42'14 12°\$08'33 13°\$26'54 0°\$Ω 0°\$\(\text{m}\) 0°\$\(\text{m}\) 0°\$\(\text{m}\) 22°\$\(\text{m}\)27'32 22°\$\(\text{m}\)249'45 0°\$\(\text{n}\)	1.40935 AU -1°03'28
morning max el morning set max. Earth dist. superior conj minimum elong asc. node	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56 14962 Sep 11 10:44 14962 Sep 17 01:03 14962 Sep 17 02:59 14962 Sep 20 02:27	23°\$11'34 24°\$58'50 29°\$47'08 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{\Omega}\$ 20°\$\mathbb{\Omega}\$40'03 0°\$\mathbb{\Omega}\$ 10°\$\mathbb{\Omega}\$20'39 10°\$\mathbb{\Omega}\$29'49 16°\$\mathbb{\Omega}\$12'29	1.38569 AU -0°27'27	direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22 14963 Aug 30 10:40 14963 Aug 30 15:37 14963 Sep 03 14:10 14963 Sep 06 23:02	7°\$42'14 12°\$08'33 13°\$26'54 0°\$Ω 0°\$\(\partial \text{0} \text{2} \text{0} \text{2} \text{0} \text{2} \text{2} \text{0} \text{0} \text{2} \text{2} \text{0} \text{0} \text{4} \text{5} \text{0} \text{0} \text{0} \text{0} \text{0} \text{0} \text{1} \text{6} \text{0} \text{1} \text{6} \text{0} \text{1} \text{1} \text{0} \text{0} \text{1} \text{0} \text{1} \text{0} \text{1} \text{0} \text{0} \text{1} \text{0} \text{0} \text{0} \text{0} \text{1} \text{0} \text{0} \text{1} \text{0} \text{0} \text{1} \text{0} \text{0} \text{0} \text{1} \text{0} \text{0} \text{0} \text{0} \text{0} \text{0} \text{1} \text{0}	1.40935 AU -1°03'28
morning max el morning set max. Earth dist. superior conj minimum elong asc. node	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56 14962 Sep 11 10:44 14962 Sep 17 01:03 14962 Sep 17 02:59 14962 Sep 20 02:27 14962 Sep 25 23:07	23°\$11'34 24°\$58'50 29°\$47'08 0°\$\Omega\$ 0°\$\Omega\$ 20°\$\Omega\$08'53 26°\$\Omega\$40'03 0°\$\Omega\$ 10°\$\Omega\$29'49 16°\$\Omega\$12'29 27°\$\Omega\$41'51	1.38569 AU -0°27'27	direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22 14963 Aug 30 10:40 14963 Aug 30 15:37 14963 Sep 03 14:10 14963 Sep 06 23:02 14963 Sep 09 14:18 14963 Sep 20 05:23	7°\$42'14 12°\$08'33 13°\$26'54 0°\$\Omega\$ 0°\$\mathbf{m}\$ 0°\$\mathbf{m}\$34'54 8°\$\mathbf{m}\$49'13 22°\$\mathbf{m}\$27'32 22°\$\mathbf{m}\$49'45 0°\$\Omega\$ 6°\$\Omega\$16'07	1.40935 AU -1°03'28
morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	14962 Jul 21 13:29 14962 Jul 26 20:27 14962 Aug 01 14:10 14962 Aug 01 19:14 14962 Aug 24 08:29 14962 Sep 05 19:56 14962 Sep 09 13:56 14962 Sep 11 10:44 14962 Sep 17 01:03 14962 Sep 17 02:59 14962 Sep 20 02:27 14962 Sep 25 23:07 14962 Sep 27 03:17	23°\$11'34 24°\$58'50 29°\$47'08 0°\$\Omega\$ 0°\$\Omega\$ 20°\$\Omega\$08'53 26°\$\Omega\$40'03 0°\$\Omega\$ 10°\$\Omega\$20'39 10°\$\Omega\$29'49 16°\$\Omega\$12'29 27°\$\Omega\$41'51 0°\$\Omega\$	1.38569 AU -0°27'27 0°27'01	direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	14963 Jul 05 08:18 14963 Jul 13 17:46 14963 Jul 15 02:17 14963 Jul 28 09:43 14963 Aug 17 06:13 14963 Aug 17 14:49 14963 Aug 22 14:22 14963 Aug 30 10:40 14963 Aug 30 15:37 14963 Sep 03 14:10 14963 Sep 06 23:02 14963 Sep 09 14:18	7°\$42'14 12°\$08'33 13°\$26'54 0°\$\Omega\$ 0°\$\Omega\$ 0°\$\Omega\$ 0°\$\Omega\$ 49'13 22°\$\Omega\$27'32 22°\$\Omega\$49'45 0°\$\Omega\$ 6°\$\Omega\$16'07 11°\$\Omega\$13'08 0°\$\Omega\$	1.40935 AU -1°03'28 1°02'56

evening set	14963 Oct 05 02:18	10° M ₊19'35			14964 Aug 25 22:59	0∘ ত	
desc. node	14963 Oct 09 14:15	8°M04'42		evening max el	14964 Sep 08 00:16	0 — 19° ≏ 43'13	18°03'23
inferior conj	14963 Oct 12 16:30	5°M41'18	-0°59'14	retrograde	14964 Sep 14 18:07	23° ₽ 11'23	10 03 23
minimum elong	14963 Oct 12 14:16	5°M45'53	0°57'50	evening set	14964 Sep 17 02:41	22° £ 46'00	
min. Earth dist.	14963 Oct 15 22:52	3°M01'33	0.58413 AU	inferior conj	14964 Sep 23 23:30	17° ≏ 47'38	0°27'56
morning rise	14963 Oct 19 22:47	0°ML19′29	0.50415710	minimum elong	14964 Sep 24 00:23	17° 2 45'34	0°27'48
morning rise	14963 Oct 20 13:47	30°R Ω		desc. node	14964 Sep 25 11:43	16° ₽ 21'08	0 27 40
direct	14963 Oct 26 06:21	28° ₽ 34'34		min. Earth dist.	14964 Sep 27 03:05	14° ≏ 49'19	0.60676 AU
ancet	14963 Nov 01 03:18	0°M		morning rise	14964 Sep 30 19:00	11° ≏ 55'44	0.00070710
morning max el	14963 Nov 09 13:39	6°M12'22	27°20'46	direct	14964 Oct 07 09:54	9° £ 45'53	
morning max er	14963 Nov 27 06:41	0° ₹	27 20 10	morning max el	14964 Oct 21 16:05	17° ≏ 39'42	27°56'01
asc. node	14963 Dec 04 00:22	12° × 707'09		morning max er	14964 Oct 31 23:37	0°M	27 30 01
morning set	14963 Dec 10 09:57	25°×706'43			14964 Nov 18 23:43	0° ∡ ⊓	
morning set	14963 Dec 12 16:15	0°る		asc. node	14964 Nov 19 21:17	1° × 745'50	
	14703 BCC 12 10.13	٥ ٠		morning set	14964 Nov 23 13:40	9°×715'29	
superior conj	14963 Dec 17 07:12	10° ට 16'04	1°34'59	max. Earth dist.	14964 Nov 29 11:09	21° × ⁷ 59'27	1.31245 AU
minimum elong	14963 Dec 17 06:10	10° ろ 10'07	1°35'56	max. Lartii dist.	147041107 27 11.07	21 7 3727	1.51245710
max. Earth dist.	14963 Dec 17 04:12	9°る59'17	1.31088 AU	superior conj	14964 Nov 30 18:04	24° ∡ ′51′03	1°26'05
evening rise	14963 Dec 24 01:36	9 3 3917 25° る 11'54	1.51088 AU	minimum elong	14964 Nov 30 16:13	24° x 31'03 24° x 40'49	1°26'53
evening rise	14963 Dec 26 08:17	25 3 11 54 0° ≈		minimum erong	14964 Dec 03 01:30	24 メ ・4049	1 20 33
desc. node	14964 Jan 05 12:34	0 ∞ 19°≈11'01		avanina risa		0 0 9° る 38'56	
desc. node		19 ≈ 1101		evening rise	14964 Dec 07 10:40	9 ⊘ 38 30	
	14964 Jan 12 11:55	0 X 12° ¥ 23'07	26946101	11-	14964 Dec 17 17:00		
evening max el	14964 Jan 22 21:39	12° X 23'07 19° X 34'32	20-4001	desc. node	14964 Dec 22 09:27	7°≈48'10 23°≈17'47	25922101
retrograde	14964 Feb 05 21:21	19° X 34 32		evening max el	14965 Jan 03 15:43	23°≈1/4/ 0°) €	25-32-01
evening set	14964 Feb 12 10:38		0.50006.411	. 1	14965 Jan 14 19:26		
min. Earth dist.	14964 Feb 16 11:28	15°) €09'00	0.59096 AU	retrograde	14965 Jan 17 13:08	0°) €17'33	
inferior conj	14964 Feb 19 16:10	12°) €39'45			14965 Jan 20 06:49	30°R≈	
minimum elong	14964 Feb 19 23:23		3°10'49	evening set	14965 Jan 23 10:34	28°≈57'56	0.55004.477
morning rise	14964 Feb 27 15:29	8°) €03'11		min. Earth dist.	14965 Jan 28 04:19	26°≈18'03	0.57034 AU
direct	14964 Feb 29 15:28	7°) (48'43		inferior conj	14965 Jan 31 00:23	24°≈23'05	
asc. node	14964 Feb 29 22:05	7°) (49'00	10015111	minimum elong	14965 Jan 31 09:33	24°≈07'34	4°35'39
morning max el	14964 Mar 08 10:35	11°) (40′28	18°15'11	morning rise	14965 Feb 08 11:20	20°≈08'17	
	14964 Mar 20 14:11	0°Υ		direct	14965 Feb 10 13:04	19°≈55'23	
morning set	14964 Mar 24 02:50	6° Ƴ 35'43		asc. node	14965 Feb 15 19:32	21° ≈ 24'39	10000102
				morning max el	14965 Feb 19 14:11	24°≈20'16	19°00'03
superior conj	14964 Apr 02 15:47	24° Y ′21′24			14965 Feb 24 06:49	0° \	
minimum elong	14964 Apr 02 15:43	24° Y 21'06	0°00'46	morning set	14965 Mar 08 01:41	20°) 54′58	
behind sun begin	14964 Apr 02 08:16	23° Y '47'24			14965 Mar 12 16:16	0° Υ	
behind sun end	14964 Apr 02 23:10	24° Y ′54'44					
desc. node	14964 Apr 02 14:27	24° Y 15'23		superior conj	14965 Mar 16 13:06	7° Y ′29'24	0°32'02
	14964 Apr 05 19:40	0° 8		minimum elong	14965 Mar 16 15:02	7° Y 38'36	0°31'41
max. Earth dist.	14964 Apr 10 06:10	7° 8 39'55	1.41287 AU	desc. node	14965 Mar 20 11:00	14° Y ′49'19	
evening rise	14964 Apr 14 22:50	15° 8 27'43		max. Earth dist.	14965 Mar 23 12:43	20° Y ′22'53	1.39037 AU
	14964 Apr 24 04:59	0°П		evening rise	14965 Mar 27 08:27	27° Y ′03'23	
	14964 May 16 07:27	0ა ௐ			14965 Mar 29 02:05	0°8	
evening max el	14964 May 18 21:53	2°545'09	23°05'43		14965 Apr 17 17:55	0°Щ	
asc. node	14964 May 27 19:05	8° © 41'11		evening max el	14965 May 01 11:38	16° Ⅲ 39'01	24°26'40
retrograde	14964 May 29 06:32	8°950'50		retrograde	14965 May 12 23:31	23° Ⅱ 22'42	
evening set	14964 Jun 03 08:07	6°5542'10	0.0001	asc. node	14965 May 14 16:17	23° Ⅱ 10'14	
min. Earth dist.	14964 Jun 08 05:58		0.69016 AU	evening set	14965 May 18 12:36	21° Ⅱ 01'58	
inferior conj	14964 Jun 08 16:07	0° © 17'21		min. Earth dist.	14965 May 23 01:45	15° Ⅱ 49'03	0.68567 AU
minimum elong	14964 Jun 08 14:37	0°522'35	2°52'21	inferior conj	14965 May 24 00:39	14° Ⅲ 32'05	2°29'47
	14964 Jun 08 21:08	30°RⅡ		minimum elong	14965 May 23 22:37	14° Ⅲ 38'56	2°28'24
morning rise	14964 Jun 13 21:02	24° Ⅱ 08'53		morning rise	14965 May 29 08:47	8° Ⅲ 32'10	
direct	14964 Jun 18 06:15	22° I I22'28		direct	14965 Jun 02 06:00	7° Ⅱ 05'52	
morning max el	14964 Jun 26 18:51	27° Ⅱ 16'35	21°04'42	morning max el	14965 Jun 09 18:08	11° I I17'04	19°52'54
	14964 Jun 29 07:54	0°©		desc. node	14965 Jun 16 12:05	19° Ⅱ 17'32	
desc. node	14964 Jun 29 15:00	0°\$20'21			14965 Jun 24 02:02	0°95	
	14964 Jul 20 21:48	0° U		morning set	14965 Jul 06 13:48	18° 5 49'30	
morning set	14964 Jul 27 09:54	10°Ω00'19		u	14965 Jul 13 18:48	0° Ω	
max. Earth dist.	14964 Aug 03 20:23	21° Ω 50'46	1.43054 AU	max. Earth dist.	14965 Jul 17 08:44	5~ 8 L 38'26	1.44690 AU
	14964 Aug 08 19:08	0° m		_		0 -	
				superior conj	14965 Jul 22 12:13	13° Ω 52'25	
superior conj	14964 Aug 10 23:12	3° Tp 39'12		minimum elong	14965 Jul 22 18:41	14° Ω 18'37	2°03'54
minimum elong	14964 Aug 11 06:33	4° Mp 10'27	1°37'17		14965 Aug 01 06:46	0° m	
evening rise	14964 Aug 22 16:02	24° m 08'01		evening rise	14965 Aug 04 23:16	6° Mp 14'10	
asc. node	14964 Aug 23 19:36	26° TQ 11'13		asc. node	14965 Aug 10 16:13	15° m 53'46	

	14965 Aug 19 21:32	0∘ ⊽		avanina risa	14066 Iul 17 07:02	17° Ω 19'52	
			10005124	evening rise	14966 Jul 17 07:03		
evening max el	14965 Aug 22 14:51	3° ₾ 05'38	18°05'24	1	14966 Jul 25 03:35	0°M) 50M-17/50	
retrograde	14965 Aug 29 00:07	6° £ 25'59		asc. node	14966 Jul 28 12:53	5° m 17'58	10025122
evening set	14965 Aug 31 17:07	5° Ω 48'08		evening max el	14966 Aug 06 04:48	16° Mp 44'18	18°25'22
inferior conj	14965 Sep 06 23:19	0° ≏ 31'46	1°34'16	retrograde	14966 Aug 12 14:51	20° Mp 10'22	
minimum elong	14965 Sep 07 01:33	0° £ 25'47	1°33'27	evening set	14966 Aug 15 16:46	19° m) 17'25	
	14965 Sep 07 11:06	30° ₽, ™)		inferior conj	14966 Aug 21 11:55	13° m) 45'04	2°20'58
min. Earth dist.	14965 Sep 09 17:03	27° Mp 36'01	0.62942 AU	minimum elong	14966 Aug 21 14:15	13° m 38'08	2°20'00
desc. node	14965 Sep 12 09:12	25° Mp 04'45		min. Earth dist.	14966 Aug 23 16:21	11° M 09'46	0.64995 AU
morning rise	14965 Sep 13 07:48	24° Mp 20'10		morning rise	14966 Aug 27 10:25	7° Mg 22'56	
direct	14965 Sep 19 23:54	21° m 51'56		desc. node	14966 Aug 30 06:41	5° m 34'07	
morning max el	14965 Oct 03 23:57	29° m 52'13	27°52'16	direct	14966 Sep 02 22:14	4° Mp 45'31	
	14965 Oct 04 03:03	0∘ ত		morning max el	14966 Sep 16 10:35	12° mp 40'18	27°14'09
	14965 Oct 26 00:04	o° M ₊		Č	14966 Sep 30 08:52	0∘ ⊽	
asc. node	14965 Nov 06 18:05	21°MJ39'08			14966 Oct 18 14:05	0°M	
morning set	14965 Nov 07 10:35	23°ML02'20		morning set	14966 Oct 21 21:58	6°M20'30	
morning sec	14965 Nov 10 19:16	0° %		asc. node	14966 Oct 24 14:48	11°M41'34	
max. Earth dist.	14965 Nov 12 13:12	3° ∡ 743′28	1.31959 AU	max. Earth dist.	14966 Oct 26 07:08	15°M06'39	1.33233 AU
max. Earm dist.	14903 NOV 12 13.12	3 X 43 20	1.31939 AU	max. Earth dist.	14900 Oct 20 07.08	13 1160039	1.33233 AU
	14065 Nov. 15, 02-22	09.715120	1011116		14066 0-4 20 05:57	220M 22144	0°50'31
superior conj	14965 Nov 15 02:22	9° 🖈 15'20	1°11'16	superior conj	14966 Oct 30 05:57	23°M22'44	
minimum elong	14965 Nov 15 00:05	9° × 702'50	1°11'49	minimum elong	14966 Oct 30 03:46	23°M11'07	0°50'51
evening rise	14965 Nov 21 21:26	24° ∡ *08'35			14966 Nov 02 08:03	0° ∡	
	14965 Nov 24 15:42	0° ろ		evening rise	14966 Nov 06 08:04	8° ∡ ³35′50	
desc. node	14965 Dec 09 06:24	25° ට 31'08			14966 Nov 17 09:50	0°ಕ	
	14965 Dec 12 19:38	0° ≈		desc. node	14966 Nov 26 03:29	12° る 00'05	
evening max el	14965 Dec 16 02:47	3° ≈ 29'47	23°55'11	evening max el	14966 Nov 27 13:29	13° る 27'28	22°12'24
retrograde	14965 Dec 29 15:36	10° ≈ 13′01		retrograde	14966 Dec 10 05:40	19° る 43'54	
evening set	14966 Jan 03 11:14	9° ≈ 22'34		evening set	14966 Dec 13 17:26	19° る 17'01	
min. Earth dist.	14966 Jan 09 14:10	6° ≈ 23'11	0.55424 AU	inferior conj	14966 Dec 22 07:00	15° る 24'01	-5°58'54
inferior conj	14966 Jan 11 11:45	5°≈15'05	-5°42'20	minimum elong	14966 Dec 22 04:45	15° る 27'10	5°57'50
minimum elong	14966 Jan 11 18:03	5°≈05'39	5°40'38	min. Earth dist.	14966 Dec 21 20:00	15° る 39'26	0.54541 AU
morning rise	14966 Jan 20 02:34	1°≈18'42		morning rise	14966 Dec 30 17:05	11° る 36'53	
direct	14966 Jan 22 15:12	1°≈02'35		direct	14967 Jan 03 02:31	11° る 11'14	
morning max el	14966 Feb 02 05:01	6°≈08'43	20°07'50	morning max el	14967 Jan 15 04:54	17° ろ 00'36	21°38'23
asc. node	14966 Feb 02 16:55	6°≈38'08	20 07 30	asc. node	14967 Jan 20 14:14	23°る12'49	21 36 23
asc. node		0° X		asc. node		23 ⊘ 1249	
	14966 Feb 17 13:48			. ,	14967 Jan 25 03:06		
morning set	14966 Feb 20 07:18	5°) 30′10		morning set	14967 Feb 04 17:04	20°≈13'35	
					14967 Feb 09 07:54	0° ∀	
superior conj	14966 Feb 28 00:17	21° ¥ 13'55					
minimum elong	14966 Feb 28 02:54	21° ∺ 27′02	0°58'02	superior conj	14967 Feb 11 21:34	5°) 24'40	1°17'36
	14966 Mar 04 11:32	0 ° $\mathbf{\Upsilon}$		minimum elong	14967 Feb 11 23:58	5° ∺ 37'10	1°17'50
max. Earth dist.	14966 Mar 05 19:20	2° Ƴ 31'17	1.36791 AU	max. Earth dist.	14967 Feb 16 06:54	14° ∺ 24'14	1.34757 AU
desc. node	14966 Mar 07 07:32	5° Ƴ 20'38		evening rise	14967 Feb 20 10:53	22°) € 32′13	
evening rise	14966 Mar 09 13:35	9° Ƴ 28'00		desc. node	14967 Feb 22 04:04	25°) 45′38	
	14966 Mar 21 19:10	9° 8			14967 Feb 24 11:44	0 ° Υ	
	14966 Apr 13 12:11	Π $^{\circ}0$			14967 Mar 15 12:42	9° 8	
evening max el	14966 Apr 14 01:13	0° Ⅲ 32'21	25°41'27	evening max el	14967 Mar 27 15:06	14° 8 18'57	26°42'36
retrograde	14966 Apr 26 11:57	7° Ⅱ 42'46		retrograde	14967 Apr 09 18:54	21° 8 44'15	
asc. node	14966 May 01 13:33	5° Ⅱ 57'42		evening set	14967 Apr 16 04:59	19° 8 12'02	
evening set	14966 May 02 12:09	5° Ⅱ 13'53		asc. node	14967 Apr 18 10:52	17° 8 07'20	
min. Earth dist.	14966 May 06 18:16	0° П 37'02	0.67661 AU	min. Earth dist.	14967 Apr 20 05:23	15° 8 09'53	0.66323 AU
mm. Earth dist.	14966 May 07 05:57	30°R 8	0.07001710	inferior conj	14967 Apr 22 05:46	12° 8 46'38	1°09'06
inferior conj	14966 May 08 05:55		1°55'13	minimum elong	14967 Apr 22 04:07	12° 8 51'31	1°07'56
	•	28° 8 50'13	1°53'47	•	•	7° 8 08'21	1 07 30
minimum elong	14966 May 08 03:46		1 3347	morning rise	14967 Apr 28 04:26		
morning rise	14966 May 13 19:56	22° 8 53'23		direct	14967 May 01 04:17	6° 8 18'39	10015110
direct	14966 May 17 06:00	21° 8 46'25	1005000	morning max el	14967 May 07 13:33	9° 8 40'15	18°15'40
morning max el	14966 May 24 00:42	25° 8 26'18	18°56'02	desc. node	14967 May 21 05:56	28° 8 42'01	
	14966 May 28 01:04	Π $^{\circ}0$			14967 May 22 01:37	0°Щ	
desc. node	14966 Jun 03 09:04	8° Ⅱ 47'39		morning set	14967 May 27 04:02	8° Ⅱ 08'05	
greatest brilliancy	14966 Jun 06 09:30	13° Ⅱ 18'13	-0.7m		14967 Jun 09 23:48	0 \circ \odot	
morning set	14966 Jun 15 21:48	27° Ⅱ 55'22					
	14966 Jun 17 05:58	0ංම		superior conj	14967 Jun 11 13:20	2° 5 26'43	-2°04'21
max. Earth dist.	14966 Jun 30 02:19	19° © 59'13	1.45680 AU	minimum elong	14967 Jun 11 06:26	1° 9 59'46	2°04'58
					14067 1 12 22 47	4° © 37'18	1 45021 ATT
				max. Earth dist.	14967 Jun 12 22:47	4 303/10	1.45931 AU
superior coni	14966 Jul 02 04:49	23° © 17'01	-2°13'56			27°©25'51	1.43931 AU
superior conj minimum elong				max. Earth dist. evening rise	14967 Jun 27 14:20	27° © 25'51	1.45931 AU
superior conj minimum elong	14966 Jul 02 04:49 14966 Jul 02 05:09 14966 Jul 06 11:09	23°©17'01 23°©18'22 0°N					

asc. node	14967 Jul 15 09:37	24° Ω 17'16		minimum elong	14968 May 20 22:16	11° ∏ 31'28	1°37'13
asc. node	14967 Jul 20 02:43	0°m)		max. Earth dist.	14968 May 25 18:48	11 Ⅲ 31 28	1.45430 AU
evening max el	14967 Jul 20 15:22	0° Mp 32'09	19°02'33	max. Lartii dist.	14968 Jun 01 16:48	0°95	1.43430 AC
retrograde	14967 Jul 27 10:58	4° Mp 17'16	17 02 33	evening rise	14968 Jun 06 04:16	6° © 53'11	
evening set	14967 Jul 30 22:12	3° M) 07'37		greatest brilliancy	14968 Jun 20 22:32	29°502'00	-0.6m
e venning see	14967 Aug 03 06:20	30°R Ω		greatest stimuley	14968 Jun 21 14:37	0°Ω	0.0111
inferior conj	14967 Aug 05 09:48	27°Ω20'56	2°50'47	asc. node	14968 Jul 01 06:26	12° Ω 42'17	
minimum elong	14967 Aug 05 11:32		2°49'53	evening max el	14968 Jul 02 20:33	14°Ω23'03	19°55'44
min. Earth dist.	14967 Aug 06 23:55	25° Ω 18'52	0.66689 AU	retrograde	14968 Jul 10 09:37	18° Ω 39'23	
morning rise	14967 Aug 11 00:09	20° Ω 55'15		evening set	14968 Jul 14 06:43	17° Ω 12'26	
direct	14967 Aug 17 03:43	18° Ω 17'46		inferior conj	14968 Jul 19 13:58	11° Ω 12'58	3°06'27
desc. node	14967 Aug 17 04:09	18° Ω 17'46		minimum elong	14968 Jul 19 14:47	11° Ω 10'12	3°05'35
morning max el	14967 Aug 29 21:59	25° Ω 53'26	26°09'37	min. Earth dist.	14968 Jul 20 14:00	9° Ω 51'49	0.67947 AU
	14967 Sep 02 16:44	0° m)		morning rise	14968 Jul 24 22:27	4° Ω 48'36	
	14967 Sep 23 21:47	0∘ ত		direct	14968 Jul 30 15:16	2° Ω 18′50	
morning set	14967 Oct 04 20:36	19° ഫ 03'11		desc. node	14968 Aug 03 01:34	3° Ω 04′02	
max. Earth dist.	14967 Oct 08 15:28	26° ≙ 14'23	1.35023 AU	morning max el	14968 Aug 11 08:53	9° Ω 20'41	24°48'02
	14967 Oct 10 13:30	0°M₊			14968 Aug 27 16:43	0° ™	
asc. node	14967 Oct 11 11:27	1°ML49'16			14968 Sep 15 12:34	0∘ ⊽	
				morning set	14968 Sep 16 02:31	1° ≏ 01'14	
superior conj	14967 Oct 14 02:18	7° ጤ 07'19	0°24'02	max. Earth dist.	14968 Sep 19 15:58	7° ≏ 24'26	1.37206 AU
minimum elong	14967 Oct 14 00:58	7°ML00'33	0°24'18				
evening rise	14967 Oct 21 16:39	22°M56'16		superior conj	14968 Sep 26 12:18	20° ≏ 21'36	-0°07'32
	14967 Oct 25 03:30	0° ∡ ¹		minimum elong	14968 Sep 26 12:46	20° ≙ 23'54	0°07'11
evening max el	14967 Nov 09 09:25	23° х ⁴48'43	20°40'27	behind sun begin	14968 Sep 26 06:48	19° ≙ 54'47	
desc. node	14967 Nov 13 00:40	26° ₹ 751′08		behind sun end	14968 Sep 26 18:44	20° ჲ 53'04	
retrograde	14967 Nov 20 15:59	29° ₹ ¹25'02		asc. node	14968 Sep 27 08:04	21° ≏ 58'29	
evening set	14967 Nov 23 01:14	29° ∡ 11'07			14968 Oct 01 08:45	0° M	
inferior conj	14967 Dec 01 22:19	25° ∡ 17'19		evening rise	14968 Oct 04 20:52	7° ™ 04'02	
minimum elong	14967 Dec 01 12:59		5°11'42		14968 Oct 17 16:37	0° ∡ ¹	
min. Earth dist.	14967 Dec 03 01:39	24° ⋌ ¹37'56	0.54572 AU	evening max el	14968 Oct 21 19:47	4° ₹ 757'35	19°28'43
morning rise	14967 Dec 10 00:41	21° × ⁷ 21'19		desc. node	14968 Oct 29 21:57	9° х 39'49	
direct	14967 Dec 14 10:18	20° ⋌ ³39'49		retrograde	14968 Oct 31 11:06	9° × ⁷ 47'02	
morning max el	14967 Dec 27 17:07	27° ₹ '08'19	23°25'09	evening set	14968 Nov 02 08:40	9° 🖈 36'38	20.4215.5
,	14967 Dec 30 11:31	0°る		inferior conj	14968 Nov 11 00:24	5° 🗷 30'28	
asc. node	14968 Jan 07 11:29	10°る50'56		minimum elong	14968 Nov 10 15:18		3°39'58
. ,	14968 Jan 17 20:06	0°≈ 40××50121		min. Earth dist.	14968 Nov 13 10:46	3° ∡ 756'37	0.55521 AU
morning set	14968 Jan 20 04:46	4° ≈ 58′21		morning rise	14968 Nov 18 19:52	1°×706'10	
aumariar aani	14968 Jan 27 01:49	19° ≈ 52'17	1°30'27	direct	14968 Nov 24 03:15 14968 Dec 08 02:26	0° х ¹02'44 7° х ¹03'57	25912100
superior conj minimum elong	14968 Jan 27 03:27	19 ≈32 17 20°≈01'06	1°31'03	morning max el asc. node	14968 Dec 08 02.26 14968 Dec 24 08:40	29° x 17'12	23 13 00
max. Earth dist.	14968 Jan 30 01:44	26°≈16'16	1.33100 AU	asc. node	14968 Dec 24 18:21	0°る	
max. Earth dist.	14968 Jan 31 20:35	0° ₩	1.55100 AC	morning set	14969 Jan 03 16:34	19° る 39'30	
evening rise	14968 Feb 03 20:50	6° ₩ 06'25		morning set	14969 Jan 08 09:46	0° ≈	
desc. node	14968 Feb 09 00:39	15° ¥ 59′20			14707 Juli 00 07.40	0 701	
dese. Hode	14968 Feb 17 03:07	0°Υ		superior conj	14969 Jan 10 10:34	4° ≈ 30'04	1°36'59
evening max el	14968 Mar 09 04:19	27° Y 47'13	27°22'44	minimum elong	14969 Jan 10 11:11	4° ≈ 33'27	1°37'51
* · · · · · · · · · · · · · · · · · · ·	14968 Mar 11 14:54	0°8	_,	max. Earth dist.	14969 Jan 12 03:36	8° ≈ 15'43	1.31913 AU
retrograde	14968 Mar 22 19:31	5° 8 17'27		evening rise	14969 Jan 17 16:25	20° ≈ 03'37	
evening set	14968 Mar 29 12:56	2° 8 48'09		Č	14969 Jan 22 16:30	0°) €	
J	14968 Apr 01 16:41	30° Ŗ ♈		desc. node	14969 Jan 25 21:19	5° ¥ 56'39	
min. Earth dist.	14968 Apr 02 09:03		0.64597 AU		14969 Feb 10 06:19	0° Y	
asc. node	14968 Apr 04 08:16	27° Y °10′52		evening max el	14969 Feb 19 15:17	10° Ƴ 45'45	27°34'58
inferior conj	14968 Apr 04 21:35	26° Ƴ 34'41	0°10'32	retrograde	14969 Mar 05 13:02	18° Y 12'44	
minimum elong	14968 Apr 04 21:18	26° Ƴ 35'29	0°10'04	evening set	14969 Mar 12 09:32	15° Ƴ 53'52	
transit middle	14968 Apr 04 21:18	26° Ƴ 35′29	0°10'04	min. Earth dist.	14969 Mar 16 03:39	12° Y ′50'25	0.62566 AU
transit begin	14968 Apr 04 18:54	26° Ƴ 41'57		inferior conj	14969 Mar 19 02:23	10° Y ′00'05	-1°00'48
transit end	14968 Apr 04 23:41	26° Y 29'02		minimum elong	14969 Mar 19 04:26	9° Y ′55'07	1°00'02
morning rise	14968 Apr 11 07:40	21° Y 10'18		asc. node	14969 Mar 22 05:42	7° Y ′09'46	
direct	14968 Apr 13 22:21	20° Ƴ 35'03		morning rise	14969 Mar 26 02:13	4° Y ′52'04	
morning max el	14968 Apr 20 06:19	23° Y 50'46	17°52'20	direct	14969 Mar 28 09:09	4° Y 27'48	
	14968 Apr 25 07:26	0° 8		morning max el	14969 Apr 04 00:01	7° Y '49'15	17°46'29
desc. node	14968 May 07 02:43	18° 8 53'16			14969 Apr 18 16:01	0°8	
morning set	14968 May 07 14:03	19° 8 40'31		morning set	14969 Apr 20 00:22	2° 8 21'32	
	14968 May 13 19:34	Π °0		desc. node	14969 Apr 23 23:26	9° 8 16'15	
	140/03/4 2: 27/2	120W05'25	1027112		1400034 01 21 11	220 4 21.22	1000110
superior conj	14968 May 21 07:00	12° Ⅱ 06'22	-1~3/'13	superior conj	14969 May 01 21:44	22° 8 45'50	-1~00'19

minimum elong	14969 May 01 15:57	22° 8 21'44	1°00'13	superior conj	14970 Apr 13 12:11	4° 8 30'11	
	14969 May 06 07:25	0° Π		minimum elong	14970 Apr 13 10:19	4° 8 21'59	
max. Earth dist.	14969 May 08 11:56		1.44237 AU	max. Earth dist.	14970 Apr 21 00:57	17° 8 20'05	1.42479 AU
evening rise	14969 May 16 16:18	16° Ⅲ 23'17		evening rise	14970 Apr 26 17:24	26° 8 33'10	
	14969 May 25 16:09	0°50	21002120		14970 Apr 28 21:51	0° I I	
evening max el	14969 Jun 15 19:47	28°5014'41	21°02'38		14970 May 19 10:50	0°95	22010122
1	14969 Jun 17 16:59	0° Ω		evening max el	14970 May 29 13:53	12°507'15	22°19'22
asc. node	14969 Jun 18 03:22	0° Ω 21'46 3° Ω 11'15		asc. node	14970 Jun 05 00:22	17° © 01'17 17° © 47'50	
retrograde	14969 Jun 24 08:36	$1^{\circ}\Omega 27'12$		retrograde	14970 Jun 08 06:13		
evening set	14969 Jun 28 16:17 14969 Jun 30 05:10	30°R95		evening set inferior conj	14970 Jun 13 01:08 14970 Jun 18 07:41	15° © 47'45 9° © 27'35	3°02'34
inforior coni		•	3°09'58	minimum elong		9° 9 31'20	3°01'28
inferior conj	14969 Jul 03 21:58 14969 Jul 03 21:48	25° © 16'28 25° © 17'04	3°09'02	min. Earth dist.	14970 Jun 18 06:36 14970 Jun 18 05:01	9°936'51	0.69054 AU
minimum elong min. Earth dist.	14969 Jul 03 21.48 14969 Jul 04 08:26	23 9 17 0 4 24° 9 40' 0 6	0.68742 AU	morning rise	14970 Jun 23 11:54	3°5014'34	0.09034 AU
morning rise	14969 Jul 04 08.26 14969 Jul 09 03:02	18°\$56'43	0.08/42 AU	direct	14970 Jun 28 04:21	1°5016'30	
direct	14969 Jul 14 07:54	16°\$40'43		morning max el	14970 Jul	6°939'12	21°51'30
desc. node	14969 Jul 20 22:57	19°\$28'23		desc. node	14970 Jul 07 09:20	7°906'52	21 31 30
morning max el	14969 Jul 24 19:49	22° © 55'51	23°18'58	dese. Hode	14970 Jul 25 09:04	0°Ω	
morning max ci	14969 Jul 31 00:53	0°Ω	23 10 30	morning set	14970 Aug 08 19:43	22° Ω 02'53	
	14969 Aug 21 00:36	0° m)		morning set	14970 Aug 13 17:33	0° m)	
morning set	14969 Aug 28 11:14	12° m) 03'21		max. Earth dist.	14970 Aug 14 16:27	1° m/34'30	1.41885 AU
max. Earth dist.	14969 Sep 01 14:07	19° m 03'30	1.39585 AU	man. Darm dist.	110,701148 11 10.27	1 11/2 3 1 3 0	1000 110
man. Darm uist.	14969 Sep 07 17:48	0∘ ⊽	1.57000 110	superior conj	14970 Aug 22 09:20	14° m) 41'15	-1°18'29
		v —		minimum elong	14970 Aug 22 15:31	15° Mp 08'16	
superior conj	14969 Sep 09 08:05	2° ₽ 55'58	-0°42'41		14970 Aug 30 21:52	0∘ ⊽	
minimum elong	14969 Sep 09 11:16	3° ₽ 10'42	0°42'11	asc. node	14970 Sep 01 01:14	2° ჲ 05'41	
asc. node	14969 Sep 14 04:39	12° ჲ 05'02		evening rise	14970 Sep 02 03:54	4° £ 08'24	
evening rise	14969 Sep 18 17:50	20° ჲ 50'58		evening max el	14970 Sep 18 03:53	29° ₽ 33'58	18°10'41
<i>8</i>	14969 Sep 23 13:21	0°M₊		<i>5</i>	14970 Sep 18 14:39	0° M	
evening max el	14969 Oct 04 19:16	16°M55'19	18°39'08	retrograde	14970 Sep 25 06:58	3°M12'16	
retrograde	14969 Oct 12 23:29	21°M02'59		evening set	14970 Sep 27 11:16	2°M52'24	
evening set	14969 Oct 14 21:40	20°M50'02		C	14970 Oct 02 11:20	30° Ŗ Ω	
desc. node	14969 Oct 16 19:20	20°M13'33		desc. node	14970 Oct 03 16:45	28° ≙ 59'34	
inferior conj	14969 Oct 22 22:17	16°M24'26	-1°57'28	inferior conj	14970 Oct 04 17:51	28° ≏ 05'24	-0°19'49
minimum elong	14969 Oct 22 17:31	16°M33'22	1°54'55	minimum elong	14970 Oct 04 17:10	28° ≏ 06'54	0°19'09
min. Earth dist.	14969 Oct 26 01:36	14°M04'05	0.57219 AU	min. Earth dist.	14970 Oct 08 00:14	25° ≏ 15'15	0.59370 AU
morning rise	14969 Oct 30 09:59	11°M23'20		morning rise	14970 Oct 11 19:43	22° ≏ 29'58	
direct	14969 Nov 05 10:42	9° M 53'31		direct	14970 Oct 18 07:28	20° ≏ 33'45	
morning max el	14969 Nov 19 16:28	17° M $_{2}0^{\circ}01$	26°43'02	morning max el	14970 Nov 01 14:22	28° ჲ 18'35	27°40'29
	14969 Nov 30 04:04	0° ∡ ¹			14970 Nov 03 06:13	0° M	
asc. node	14969 Dec 11 05:45	18° ∡ 18'40			14970 Nov 23 23:30	0° ∡ ¹	
	14969 Dec 17 03:10	0°ප		asc. node	14970 Nov 28 02:44	7° ∡ ¹45'58	
morning set	14969 Dec 19 02:40	4° る 11'29		morning set	14970 Dec 03 09:17	18° ∡ ¹29'52	
					14970 Dec 08 16:01	0°ಕ	
superior conj	14969 Dec 25 21:38		1°37'26				
minimum elong	14969 Dec 25 21:11	19° る 08'19	1°38'24	superior conj	14970 Dec 10 09:07		1°31'56
max. Earth dist.	14969 Dec 26 10:13	20° පි 21'06	1.31239 AU	minimum elong	14970 Dec 10 07:42		1°32'49
	14969 Dec 30 19:05	0° ≈		max. Earth dist.	14970 Dec 09 18:12	2° る 25'59	1.31094 AU
evening rise	14970 Jan 01 18:57	4°≈16'39		evening rise	14970 Dec 17 02:13	18° る 40'04	
desc. node	14970 Jan 12 18:02	25°≈30'07			14970 Dec 22 13:54	0° ≈	
	14970 Jan 15 09:46	0°) {		desc. node	14970 Dec 30 14:50	14° ≈ 30'55	
evening max el	14970 Feb 01 21:41	23°) €02'22	27°14'02		14971 Jan 10 15:23	0°) {	26010111
	14970 Feb 13 02:21	0° Υ		evening max el	14971 Jan 14 20:54	4°) €27'55	26°18'11
retrograde	14970 Feb 15 21:51	0° Υ 20'12		retrograde	14971 Jan 28 20:02	11°) (33'49	
. ,	14970 Feb 18 16:02	30° ₹ ₩		evening set	14971 Feb 04 03:41	9°) € 58'12	0.50102.411
evening set	14970 Feb 22 15:40	28°) (19'44	0.60261.411	min. Earth dist.	14971 Feb 08 10:20		0.58182 AU
min. Earth dist.	14970 Feb 26 12:11	25° ¥ 35'07	0.60361 AU	inferior conj	14971 Feb 11 12:39	5°) € 04'56	
inferior conj	14970 Mar 01 16:38 14970 Mar 01 21:55	22°) 53'29 22°) 42'16		minimum elong	14971 Feb 11 21:03 14971 Feb 19 17:32	4°) 49'30 0°) 37'17	3 4/48
minimum elong		18°) (04'30	2 21 03	morning rise direct		0° X 3/1/ 0° X 23'53	
morning rise asc. node	14970 Mar 09 07:30 14970 Mar 09 03:10	18° ₭ 04'30		asc. node	14971 Feb 21 17:29 14971 Feb 24 00:38	0° X 23′53 0° X 42′28	
direct	14970 Mar 09 03:10 14970 Mar 11 08:56	18° X 07'33		morning max el	14971 Feb 24 00:38 14971 Mar 02 00:13	4° € 28'45	18°31'34
morning max el	14970 Mar 11 08:36 14970 Mar 18 15:15	21° X 4/32	17°59'03	morning max ei morning set	14971 Mar 02 00:13	4° ★ 28°45 29° ★ 58'31	10 31 34
morning max er	14970 Mar 18 13:15 14970 Mar 25 03:56	21° π 25'31 0° Υ	11 3703	morning set	149/1 Mar 1/ 22:23 14971 Mar 17 22:42	29° π 38'31 0° Υ	
morning set	14970 Mai 23 03:30 14970 Apr 03 04:58	15° Υ 53'01			17) / 1 IVIGI 1 / 22.42	V I	
desc. node	14970 Apr 03 04:38	29° Υ 46'28		superior conj	14971 Mar 26 23:29	17° Y 10'52	0°14'05
2000. 11000	14970 Apr 10 23:06	0°8		minimum elong	14971 Mar 27 00:27	17°Υ15'20	
	1.5,011p1 10 25.00	~ O		Ciong	>, I ITIMI 2/ 00.2/	1, 11520	0 10 10

behind sun begin	14971 Mar 26 20:48	16° Ƴ 58'28		superior conj	14972 Mar 09 03:16	0° Ƴ 36′12	0°43'57
behind sun end	14971 Mar 27 04:05	17° Ƴ 32'10		minimum elong	14972 Mar 09 05:37	0° Ƴ 47'42	0°43'39
desc. node	14971 Mar 28 16:37	20° Y 19′50		desc. node	14972 Mar 14 13:08	10° Y 53′06	
	14971 Apr 03 03:05	9° 8		max. Earth dist.	14972 Mar 15 16:16	12° Ƴ 57'36	1.38064 AU
max. Earth dist.	14971 Apr 03 09:47	0° 8 29'03	1.40344 AU	evening rise	14972 Mar 19 09:05	19° Ƴ 34'37	
evening rise	14971 Apr 07 14:47	7° 8 37'09			14972 Mar 25 12:48	9° 8	
	14971 Apr 21 22:45	Π $^{\circ}0$			14972 Apr 15 02:01	Π \circ 0	
evening max el	14971 May 12 04:41	26° Ⅱ 00′38	23°40'34	evening max el	14972 Apr 23 18:09	9° Ⅱ 54'25	24°59'38
	14971 May 16 20:10	0 \circ ∞		retrograde	14972 May 05 16:09	16° Ⅱ 50'43	
asc. node	14971 May 22 21:29	2° 5 22'49		asc. node	14972 May 08 18:42	16° Ⅱ 09'45	
retrograde	14971 May 23 01:04	2° 5 22'55		evening set	14972 May 11 10:13	14° Ⅱ 25'42	
evening set	14971 May 28 07:38	0°908'45		min. Earth dist.	14972 May 15 20:06	9° Ⅱ 28'34	0.68239 AU
	14971 May 28 11:37	30° Ŗ Ⅱ		inferior conj	14972 May 17 00:31	7° Ⅱ 55'02	2°16'30
min. Earth dist.	14971 Jun 02 01:35	24° Ⅲ 34'57	0.68883 AU	minimum elong	14972 May 16 22:22	8° Ⅲ 02'06	2°15'03
inferior conj	14971 Jun 02 17:09	23° Ⅱ 41'37	2°44'46	morning rise	14972 May 22 10:50	1° Ⅱ 59'28	
minimum elong	14971 Jun 02 15:22	23° Ⅱ 47'43	2°43'29	direct	14972 May 26 03:13	0° Ⅱ 41'38	
morning rise	14971 Jun 07 23:06	17° Ⅲ 36'46		morning max el	14972 Jun 02 06:57	4° Ⅲ 37'40	19°26'51
direct	14971 Jun 12 03:15	15° Ⅲ 58'45		desc. node	14972 Jun 10 14:26	14° Ⅱ 51'33	
morning max el	14971 Jun 20 04:27	20° Ⅲ 32'51	20°32'35	greatest brilliancy	14972 Jun 14 22:00	21° Ⅱ 03'55	-0.7m
desc. node	14971 Jun 24 17:24	25° Ⅲ 39'21			14972 Jun 20 21:15	0°ಅ	
	14971 Jun 28 02:08	$0 \circ \mathfrak{S}$		morning set	14972 Jun 27 09:34	9° 9 56'45	
	14971 Jul 18 13:00	$0^{\circ}\Omega$		max. Earth dist.	14972 Jul 09 16:56	29° © 03'44	1.45198 AU
morning set	14971 Jul 19 06:35	1° Ω 07'50			14972 Jul 10 07:13	0°N	
max. Earth dist.	14971 Jul 28 01:46	14°Ω59'03	1.43827 AU			* 00	
				superior conj	14972 Jul 13 15:19	5° Ω 17'11	-2°10'12
superior conj	14971 Aug 03 11:58	25° Ω 28'03	-1°50'00	minimum elong	14972 Jul 13 19:47	5° Ω 34'58	2°10'54
minimum elong	14971 Aug 03 19:33	25° Ω 59'30		evening rise	14972 Jul 27 20:09	28° Ω 25'35	
	14971 Aug 06 05:04	0° m)	1 .507	evening rise	14972 Jul 28 18:53	0° m)	
evening rise	14971 Aug 15 22:24	16° Mp 44'07		asc. node	14972 Aug 04 18:24	11° m)31'11	
asc. node	14971 Aug 18 21:48	21° m 55'55		evening max el	14972 Aug 15 07:56	26° m) 12'24	18°11'40
use. Hour	14971 Aug 23 14:59	0∘ ⊽		retrograde	14972 Aug 21 16:32	29° m 33'52	10 11 10
evening max el	14971 Sep 01 17:19	0 – 12° ہ 42'39	18°01'54	evening set	14972 Aug 24 13:12	28° m) 49'55	
retrograde	14971 Sep 08 06:11	16° Ω 05'45	10 010.	inferior conj	14972 Aug 30 14:15	23° m) 26'17	1°56'19
evening set	14971 Sep 10 18:20	15° Ω 35'19		minimum elong	14972 Aug 30 16:38	23° m 19'33	1°55'24
inferior conj	14971 Sep 17 08:30	10° ₽ 28'39	0°58'36	min. Earth dist.	14972 Sep 02 02:28	20° m) 37'23	0.63849 AU
minimum elong	14971 Sep 17 10:09	10° Ω 24'32	0°58'06	morning rise	14972 Sep 05 18:17	17° my 08'53	0.03017710
min. Earth dist.	14971 Sep 20 08:22	7° ഫ 29'20	0.61662 AU	desc. node	14972 Sep 06 11:43	16° Mp 36'49	
desc. node	14971 Sep 20 14:14	7° £ 15'23	***************************************	direct	14972 Sep 12 08:56	14° mp 35'50	
morning rise	14971 Sep 23 23:18	4° £ 27'16		morning max el	14972 Sep 26 05:06	22° m/35'41	27°39'53
direct	14971 Sep 30 15:22	2° ≏ 08'56		8	14972 Oct 02 18:20	0∘ ⊽	_, _,
morning max el	14971 Oct 14 19:27		27°59'02		14972 Oct 22 14:07	0° M	
	14971 Oct 30 08:06	0°M	_, _,	morning set	14972 Oct 31 03:40	16°ML05'36	
asc. node	14971 Nov 14 23:36	27°M31'30		asc. node	14972 Oct 31 20:21	17° M 29'10	
	14971 Nov 16 05:08	0° ∡ 7		max. Earth dist.	14972 Nov 04 22:54		1.32435 AU
morning set	14971 Nov 17 10:25	2° х 29′56		man. Darun dige.	14972 Nov 06 20:25	0° ⊼ 7	1.52 .50 110
max. Earth dist.	14971 Nov 22 23:46	14° ∡ *21'22	1.31487 AU			• •	
				superior conj	14972 Nov 08 01:42	2° х 37′56	1°03'10
superior conj	14971 Nov 24 19:08	18° ∡ ¹20'17	1°20'31	minimum elong	14972 Nov 07 23:23	2° ₹ ¹25'22	
minimum elong	14971 Nov 24 17:03	18° х 08'45		evening rise	14972 Nov 14 23:13	17° ∡ °38'07	
	14971 Nov 30 01:33	0°ප			14972 Nov 20 23:16	0°ಕ	
evening rise	14971 Dec 01 12:15	3° そ 08'58		desc. node	14972 Dec 03 08:44	20° ට 01'24	
o venning rise	14971 Dec 15 16:02	0° ≈		evening max el	14972 Dec 07 21:10	25° පි 02'51	23°10'59
desc. node	14971 Dec 17 11:43	2° ≈ 47'05		overmig man er	14972 Dec 14 14:44	0° ≈	25 10 55
evening max el	14971 Dec 27 11:37	15° ≈ 02'18	24°52'39	retrograde	14972 Dec 21 03:04	1° ≈ 37'08	
retrograde	14972 Jan 10 05:57	21°≈55'23	21 3237	evening set	14972 Dec 25 09:24	0°≈57'38	
evening set	14972 Jan 15 17:53	20°≈48'09		evening set	14972 Dec 27 22:55	30°R₹	
min. Earth dist.	14972 Jan 20 23:31		0.56279 AU	min. Earth dist.	14972 Dec 27 22:33 14973 Jan 01 07:08		0.54942 AU
inferior conj	14972 Jan 23 11:53	16°≈26'29		inferior conj	14973 Jan 02 15:21	26°る57'46	
minimum elong	14972 Jan 23 20:37	16°≈12'32		minimum elong	14973 Jan 02 18:29	26° る 53'15	
morning rise	14972 Feb 01 01:40	10 ≈12 32 12°≈20'23	5 0/12	morning rise	14973 Jan 11 05:04	20 3 33 13 23° る 07'19	J JJ 44
direct	14972 Feb 01 01:40 14972 Feb 03 06:57	12°≈20'23 12°≈06'40		direct	14973 Jan 11 03:04 14973 Jan 14 01:21	23°る0/19 22°る48'09	
							20042151
asc. node	14972 Feb 10 22:04	15°≈01'37	10026105	morning max el	14973 Jan 25 07:28	28°る12'35 0°≈	20 43 31
morning max el	14972 Feb 12 22:50	16° ≈ 47'54	19°26'05	ana nada	14973 Jan 27 01:07		
morning set	14972 Feb 22 10:42	0°) 14°) (26′04		asc. node	14973 Jan 27 19:27	0°≈51'54 29°≈05'26	
morning set	14972 Mar 01 00:31 14972 Mar 08 19:51	14°π26'04 0° Υ		morning set	14973 Feb 13 08:12	29° ≈ 05°26	
	147/2 WIAI US 19.31	v i			14973 Feb 13 18:44	υ Λ	

superior conj	14973 Feb 20 19:12	14°) 33′14		morning set	14974 Jan 28 19:01	13° ≈ 49′51	
minimum elong	14973 Feb 20 21:49	14°) (46′32	1°07'14				
max. Earth dist.	14973 Feb 26 00:14	24° 升 55'48	1.35883 AU	superior conj	14974 Feb 04 19:50	28° ≈ 52'09	1°23'50
	14973 Feb 28 16:05	0° Y		minimum elong	14974 Feb 04 21:57	29° ≈ 03'22	1°24'13
desc. node	14973 Mar 01 09:40	1° Y 21′58			14974 Feb 05 08:39	0° ℋ	
evening rise	14973 Mar 01 21:32	2° Y 16′55		max. Earth dist.	14974 Feb 08 14:25	6°) 45′02	1.34002 AU
	14973 Mar 18 13:44	9° 8		evening rise	14974 Feb 13 00:40	15°) 35′04	
evening max el	14973 Apr 06 07:37	23° 8 44'38	26°09'31	desc. node	14974 Feb 16 06:13	21°) 42′33	
	14973 Apr 14 16:39	$\Pi^{\circ}0$			14974 Feb 20 21:16	0 ° Υ	
retrograde	14973 Apr 19 02:29	1° Ⅱ 03'37			14974 Mar 13 03:32	9° 8	
	14973 Apr 23 03:49	30° ₹ 8		evening max el	14974 Mar 19 21:23	7° 8 24'29	27°02'41
evening set	14973 Apr 25 07:08	28° 8 32'20		retrograde	14974 Apr 02 07:04	14° 8 53'34	
asc. node	14973 Apr 25 16:01	28° 8 13'27		evening set	14974 Apr 08 20:28	12° 8 21'53	
min. Earth dist.	14973 Apr 29 10:33	24° 8 10'36	0.67139 AU	asc. node	14974 Apr 12 13:24	8° 8 48'36	
inferior conj	14973 May 01 03:44	22° 8 03'01	1°37'08	min. Earth dist.	14974 Apr 12 18:51	8° 8 33'29	0.65627 AU
minimum elong	14973 May 01 01:43	22° 8 09'17	1°35'45	inferior conj	14974 Apr 15 00:30	6° 8 00'20	0°45'49
morning rise	14973 May 06 21:07	16° 8 17'57		minimum elong	14974 Apr 14 23:19	6° 8 03'43	0°44'52
direct	14973 May 10 02:36	15° 8 18'49		morning rise	14974 Apr 21 03:42	0° 8 27'31	
morning max el	14973 May 16 16:29	18° 8 49'36	18°36'50	morning rise	14974 Apr 22 06:50	30°RY	
morning max or	14973 May 25 10:34	0°II	10 30 30	direct	14974 Apr 23 23:25	29° Υ '44'27	
desc. node	14973 May 28 11:22	4° Ⅱ 32'34		direct	14974 Apr 25 16:20	0°8	
morning set	14973 Jun 07 01:21	19° Ⅲ 26'02		morning max el	14974 Apr 20 07:16	3° 8 02'28	18°03'34
morning set	14973 Jun 13 19:26	0°95		desc. node	14974 May 15 08:13	24° 8 34'31	18 03 34
max. Earth dist.			1 45071 ATT			0° Ⅱ 12'11	
max. Earth dist.	14973 Jun 22 11:33	13° © 31'44	1.45871 AU	morning set	14974 May 18 19:22	0°Щ1211 0°Щ	
	14072 1 22 02 27	1.40	2012/20		14974 May 18 16:22	от	
superior conj	14973 Jun 23 02:27	14°529'52			14054 7 00 10 50	222 T 46145	105405
minimum elong	14973 Jun 22 23:23	14°9517'54	2°13'16	superior conj	14974 Jun 02 12:50	23° Ⅱ 46'47	
	14973 Jul 02 23:45	0° N		minimum elong	14974 Jun 02 04:20	23° Ⅱ 13'24	
evening rise	14973 Jul 08 17:15	9° Ω 04'27		max. Earth dist.	14974 Jun 05 07:39	28° Ⅱ 08'43	1.45802 AU
greatest brilliancy	14973 Jul 16 05:30	20° Ω 59'10	-0.9m		14974 Jun 06 12:09	0° ©	
	14973 Jul 22 02:35	0° m y		evening rise	14974 Jun 18 15:32	18° 5 48'43	
asc. node	14973 Jul 22 15:05	0°Mp45'46			14974 Jun 25 22:25	0 \circ Ω	
evening max el	14973 Jul 29 20:41	9° m 55'33	18°39'11	greatest brilliancy	14974 Jul 01 09:21	8° Ω 13'36	-0.7m
retrograde	14973 Aug 05 09:59	13° m 28'30		asc. node	14974 Jul 09 11:51	19° Ω 31'32	
evening set	14973 Aug 08 15:41	12° m 28'48		evening max el	14974 Jul 13 05:11	23° Ω 45′09	19°23'28
inferior conj	14973 Aug 14 07:14	6° Mp 50'16	2°35'29	retrograde	14974 Jul 20 07:20	27° Ω 42′03	
minimum elong	14973 Aug 14 09:21	6° Mp 43′41	2°34'32	evening set	14974 Jul 23 22:41	26° Ω 25'11	
min. Earth dist.	14973 Aug 16 05:41	4° m 27′33	0.65756 AU	inferior conj	14974 Jul 29 08:05	20° Ω 33'12	2°59'01
morning rise	14973 Aug 20 01:58	0° m 25′40		minimum elong	14974 Jul 29 09:27	20° Ω 28'43	2°58'08
	14973 Aug 20 14:40	30° ₽ Ω		min. Earth dist.	14974 Jul 30 16:15	18° Ω 47'35	0.67276 AU
desc. node	14973 Aug 24 09:13	28° Ω 02'47		morning rise	14974 Aug 03 19:39	14° Ω 07'39	
direct	14973 Aug 26 10:38	27° Ω 46'54		direct	14974 Aug 09 19:00	11° Ω 32'17	
	14973 Sep 01 23:21	0° m)		desc. node	14974 Aug 11 06:42	11° Ω 40'46	
morning max el	14973 Sep 08 16:22	5° Mp 36'21	26°49'26	morning max el	14974 Aug 22 03:22	18° Ω 55′26	25°36'26
	14973 Sep 27 09:53	0∘ ত			14974 Aug 31 12:52	0° m y	
morning set	14973 Oct 14 10:09	29° ₽ 10'31			14974 Sep 20 11:16	0∘ ত	
_	14973 Oct 14 20:29	0° M .		morning set	14974 Sep 27 02:11	11° ≏ 35'12	
max. Earth dist.	14973 Oct 18 12:39	7° IL 12'39	1.33931 AU	max. Earth dist.	14974 Sep 30 16:49	18° ≏ 16'39	1.35911 AU
asc. node	14973 Oct 18 17:01	7° ጤ 34'37		asc. node	14974 Oct 05 13:39	27° ≏ 43'15	
superior conj	14973 Oct 23 02:36	16°M36'59	0°39'58	superior conj	14974 Oct 06 18:59	0° M 09'47	0°11'15
minimum elong	14973 Oct 23 00:40	16°M26'55	0°40'16	minimum elong	14974 Oct 06 18:18	0°M06'21	0°11'31
Č	14973 Oct 29 09:57	0° ∡ ¹		behind sun begin	14974 Oct 06 13:54	29° ≏ 44'16	
evening rise	14973 Oct 30 09:16	2° х 03′24		behind sun end	14974 Oct 06 22:42	0°M28'28	
evening noe	14973 Nov 15 00:13	0°る			14974 Oct 06 17:02	0°M	
evening max el	14973 Nov 19 10:50	5° る 07'07	21°31'16	evening rise	14974 Oct 14 16:16	16°M18'55	
desc. node	14973 Nov 20 05:51	5° る 52'28	21 31 10	evening rise	14974 Oct 21 15:15	0° ₹	
retrograde	14973 Dec 01 14:27	11°る08'05		evening max el	14974 Nov 01 12:51	15° ×7 47'41	20°07'18
evening set	14973 Dec 01 14.27 14973 Dec 04 13:09	11 80803 10°る48'17		desc. node	14974 Nov 07 12.31 14974 Nov 07 03:06	19° х '4/41	20 0/10
inferior conj	14973 Dec 04 13.09 14973 Dec 13 07:16	6°る56'41	_5° <i>\</i> 7'27	retrograde	14974 Nov 07 03:00 14974 Nov 12 02:31	21° x '3423	
-		6°056'41 7° 3 05'06		-			
minimum elong	14973 Dec 13 01:16			evening set	14974 Nov 14 05:04	20° 🗷 51'53	1010106
min. Earth dist.	14973 Dec 13 12:55		0.54438 AU	inferior conj	14974 Nov 23 01:32	16° ₹ 54'25	
morning rise	14973 Dec 21 13:58	3° る 07'53		minimum elong	14974 Nov 22 15:27	17° × ⁷ 09'31	4°36'23
direct	14973 Dec 25 09:32	2° る 36'14	22022122	min. Earth dist.	14974 Nov 24 19:42	15° x 51'21	0.54877 AU
morning max el	14974 Jan 07 01:46	8°る43'45	22 22 23	morning rise	14974 Dec 01 00:55	12° x 48'22	
asc. node	14974 Jan 14 16:45	17°る55'48		direct	14974 Dec 05 20:37	11° x 57'54	24011151
	14974 Jan 21 22:04	0° ≈		morning max el	14974 Dec 19 11:23	18° ∡ ′41′08	24°11'51

	14974 Dec 28 19:05	ე∘ჳ		morning max el	14975 Nov 30 21:51	28°M41'02	25054124
asc. node	14974 Dec 28 19:03	5° ろ 56'03		morning max er	14975 Dec 02 05:42	0° x ¹	23 34 34
morning set	14975 Jan 13 07:01	28°る33'37		asc. node	14975 Dec 02 03.42 14975 Dec 19 11:06	24° ∡ ⁷ 38'36	
morning set	14975 Jan 13 23:04	0°≈		ase. Hode	14975 Dec 22 07:48	0°₹	
	11975 3411 15 25.01	0 / 0 /		morning set	14975 Dec 28 18:18	ਾ ਹ 13° ਠ 11'30	
superior conj	14975 Jan 20 02:17	13° ≈ 24'50	1°33'59	morning sec	11973 Dec 20 10.10	15 01150	
minimum elong	14975 Jan 20 03:30	13° ≈ 31'28	1°34'42	superior conj	14976 Jan 04 12:14	28° る 04'22	1°37'55
max. Earth dist.	14975 Jan 22 12:33	18° ≈ 40'27	1.32542 AU	minimum elong	14976 Jan 04 12:24		1°38'50
evening rise	14975 Jan 27 15:07	29° ≈ 20'18	-10-0 1-110		14976 Jan 05 09:04	0° ≈	
	14975 Jan 27 23:00	0° ∀		max. Earth dist.	14976 Jan 05 17:03	0°≈44'10	1.31568 AU
desc. node	14975 Feb 03 02:50	11° ¥ 50′10		evening rise	14976 Jan 11 13:56	13° ≈ 24'55	
	14975 Feb 13 23:44	0° Υ		8	14976 Jan 20 01:37	0°) €	
evening max el	14975 Mar 02 10:12	20° Ƴ 42'53	27°31'47	desc. node	14976 Jan 20 23:30	1° ¥ 38′23	
retrograde	14975 Mar 16 04:45	28° Ƴ 11'55			14976 Feb 09 11:49	0° Υ	
evening set	14975 Mar 22 23:58	25° Ƴ 46'30		evening max el	14976 Feb 12 19:39	3° Y 25'20	27°30'18
min. Earth dist.	14975 Mar 26 19:02	22° Y ′28'07	0.63763 AU	retrograde	14976 Feb 26 18:26	10° Ƴ 48'10	
inferior conj	14975 Mar 29 12:07	19° Ƴ 40'28	-0°18'11	evening set	14976 Mar 04 14:48	8° Y 36'15	
minimum elong	14975 Mar 29 12:41	19° Ƴ 38'59	0°18'11	min. Earth dist.	14976 Mar 08 09:18	5° Y '42'09	0.61644 AU
asc. node	14975 Mar 30 10:50	18° Ƴ 42'19		inferior conj	14976 Mar 11 11:12	2° Y ′53'39	-1°34'40
morning rise	14975 Apr 05 03:45	14° Ƴ 22'21		minimum elong	14976 Mar 11 14:32	2° Y '45'59	
direct	14975 Apr 07 14:59	13° Y ′52'08		Č	14976 Mar 14 20:47	30° ₹	
morning max el	14975 Apr 14 00:48	17° Y ′08'59	17°47'37	asc. node	14976 Mar 16 08:19	28°) 59'41	
8	14975 Apr 23 09:10	0°B		morning rise	14976 Mar 18 17:21	27° ¥ 53′22	
morning set	14975 Apr 30 16:32	12° 8 16'43		direct	14976 Mar 20 21:46	27°) € 32'32	
desc. node	14975 May 02 04:58	14° 8 51'35			14976 Mar 26 15:45	0° Y	
	14975 May 11 06:15	$\Pi^{\circ}0$		morning max el	14976 Mar 27 17:53	0° Υ 59'20	17°49'30
	,			morning set	14976 Apr 12 11:23	25° Y ′21′40	
superior conj	14975 May 13 14:36	3° Ⅱ 49'46	-1°22'14	Č	14976 Apr 15 01:44	0° ႘	
minimum elong	14975 May 13 06:46	3° Ⅱ 17'59	1°22'07	desc. node	14976 Apr 18 01:37	5° 8 18'11	
max. Earth dist.	14975 May 19 03:04	12° Ⅱ 40'37	1.45004 AU		1		
evening rise	14975 May 29 02:40	28° Ⅱ 12'34		superior conj	14976 Apr 23 15:33	14° 8 57'27	-0°43'43
Č	14975 May 30 06:47	0° ©		minimum elong	14976 Apr 23 11:29	14° 8 40'09	0°43'43
	14975 Jun 19 21:07	$0^{\circ}\Omega$		max. Earth dist.	14976 Apr 30 19:08	26° 8 49'51	1.43553 AU
asc. node	14975 Jun 26 08:44	7° Ω 39'02			14976 May 02 18:17	$\Pi^{\circ}0$	
evening max el	14975 Jun 26 07:57	7° Ω 37'05	20°22'46	evening rise	14976 May 07 18:51	7° Ⅱ 56′25	
retrograde	14975 Jul 04 06:16	12° Ω 09'09			14976 May 22 11:55	0 \circ \odot	
evening set	14975 Jul 08 07:53	10° Ω 34'42		evening max el	14976 Jun 08 04:46	21° 5 28'38	21°34'16
inferior conj	14975 Jul 13 14:09	4° Ω 30′25	3°09'19	asc. node	14976 Jun 12 05:43	24° © 54'56	
minimum elong	14975 Jul 13 14:33	4° Ω 29'03	3°08'26	retrograde	14976 Jun 17 04:51	26°5643'38	
min. Earth dist.	14975 Jul 14 08:20		0.68347 AU	evening set	14976 Jun 21 17:20	24° © 52'19	
	14975 Jul 17 01:18	30° ℝ ∽		inferior conj	14976 Jun 26 23:05	18° © 37'12	3°08'05
morning rise	14975 Jul 18 20:54	28°907'58		minimum elong	14976 Jun 26 22:31	18° © 39'11	3°07'06
direct	14975 Jul 24 08:50	25° © 43'25		min. Earth dist.	14976 Jun 27 03:51	18° © 20'37	0.68937 AU
desc. node	14975 Jul 29 04:06	27° © 11'55		morning rise	14976 Jul 02 03:31	12° © 20'16	
	14975 Aug 02 00:07	$0^{\circ}\Omega$		direct	14976 Jul 07 03:03	10° © 11'48	
morning max el	14975 Aug 04 13:57	2° Ω 25'50	24°10'32	desc. node	14976 Jul 15 01:26	14° © 10'16	
	14975 Aug 25 14:19	0° m y		morning max el	14976 Jul 17 01:43	16° 5 04'27	22°41'09
morning set	14975 Sep 08 23:31	23° m 09'58			14976 Jul 28 11:58	$0^{\circ}\Omega$	
max. Earth dist.	14975 Sep 12 15:41	29° m 36'12	1.38215 AU		14976 Aug 17 14:26	0° ™	
	14975 Sep 12 21:01	0∘ 亚		morning set	14976 Aug 19 22:05	3° m 45'30	
				max. Earth dist.	14976 Aug 24 15:24	11° m)37'13	1.40589 AU
superior conj	14975 Sep 19 23:26	13° ഫ 08'06	-0°22'06				
minimum elong	14975 Sep 20 00:58	13° ≏ 15′23	0°21'42	superior conj	14976 Sep 01 11:49	25° m/22'15	-0°58'02
asc. node	14975 Sep 22 10:14	17° ≏ 51'35		minimum elong	14976 Sep 01 16:19	25° m/42'34	0°57'30
evening rise	14975 Sep 28 17:46	0°M18'35			14976 Sep 04 00:43	0∘ ⊽	
	14975 Sep 28 14:01	0° M		asc. node	14976 Sep 08 06:49	7° ჲ 56'03	
evening max el	14975 Oct 15 05:09	27°M17'25	19°04'54	evening rise	14976 Sep 11 10:35	13° ≏ 54'15	
	14975 Oct 18 12:10	0° ∡ ¹			14976 Sep 20 07:44	0° M	
retrograde	14975 Oct 24 04:20	1° ∡ ¹47'52		evening max el	14976 Sep 27 08:56	9° ™ 33'16	18°24'32
desc. node	14975 Oct 25 00:26	1° ∡ ¹45'38		retrograde	14976 Oct 05 01:21	13° M 27'17	
evening set	14975 Oct 26 01:17	1° ∡ ³36′52		evening set	14976 Oct 07 01:37	13° M 11'58	
	14975 Oct 30 07:29	30°RM		desc. node	14976 Oct 10 21:49	11° M 27'31	
inferior conj	14975 Nov 03 11:18	27°M22'36	-2°58'53	inferior conj	14976 Oct 14 18:32	8°M36'58	-1°14'07
minimum elong	14975 Nov 03 03:51	27°M35'22	2°55'20	minimum elong	14976 Oct 14 15:41	8° M 42'42	1°12'24
min. Earth dist.	14975 Nov 06 06:33	25°M27'47	0.56173 AU	min. Earth dist.	14976 Oct 18 00:30	6° ™ 01'35	0.58087 AU
morning rise	14975 Nov 11 03:45	22°M43'20		morning rise	14976 Oct 22 02:15	3°M20'15	
direct	14975 Nov 16 19:14	21°M29'14		direct	14976 Oct 28 08:10	1° M 39'14	

morning max el	14976 Nov 11 15:23	9° ™ 14'34	27°12'12	desc. node	14977 Sep 27 19:17	19° ≏ 48'24	
	14976 Nov 27 11:23	0° ∡ ¹		min. Earth dist.	14977 Sep 30 03:15	17° ≏ 39'42	0.60334 AU
asc. node	14976 Dec 05 08:06	13° ∡ 52′23		morning rise	14977 Oct 03 19:48	14° ≏ 48'44	
morning set	14976 Dec 12 03:11	27° ∡ ³39′05		direct	14977 Oct 10 10:08	12° ≏ 42'04	
	14976 Dec 13 05:24	8°0		morning max el	14977 Oct 24 16:39	20° ≏ 34'05	27°53'17
					14977 Nov 01 20:23	0° M	
superior conj	14976 Dec 18 23:43	12° る 45'21	1°35'50		14977 Nov 20 10:12	0° ∡ ¹	
minimum elong	14976 Dec 18 22:50	12° る 40'25	1°36'47	asc. node	14977 Nov 22 05:01	3° ∡ ¹28′00	
max. Earth dist.	14976 Dec 19 00:49	12° る 51'34	1.31108 AU	morning set	14977 Nov 26 07:43	11° ∡ 750′17	
evening rise	14976 Dec 25 18:44	27° る 43'22		max. Earth dist.	14977 Dec 02 08:02	24° ∡ ¹52′26	1.31184 AU
	14976 Dec 26 20:31	0° ≈					
desc. node	14977 Jan 06 20:15	20° ≈ 59'50		superior conj	14977 Dec 03 10:47	27° ∡ ¹21'15	1°27'50
	14977 Jan 12 11:39	0°) €		minimum elong	14977 Dec 03 09:02	27° ∡ 11'35	1°28'38
evening max el	14977 Jan 24 23:04	15° ¥ 20'47	26°54'19	-	14977 Dec 04 15:14	0°ರ	
retrograde	14977 Feb 07 23:02	22°) 34′09		evening rise	14977 Dec 10 03:21	12° る 09'20	
evening set	14977 Feb 14 13:44	20°) 43′09		•	14977 Dec 19 00:29	0° ≈ ≈	
min. Earth dist.	14977 Feb 18 13:07	18° ¥ 03'41	0.59424 AU	desc. node	14977 Dec 24 17:05	9° ≈ 43'27	
inferior conj	14977 Feb 21 18:06	15° ¥ 30'35	-3°00'30	evening max el	14978 Jan 06 18:27	26° ≈ 23'16	25°44'52
minimum elong	14977 Feb 22 00:50	15° ¥ 17'09	2°57'39	Č	14978 Jan 11 03:56	0°) €	
morning rise	14977 Mar 01 15:19	10° ¥ 50'49		retrograde	14978 Jan 20 16:36	3°) €24'49	
asc. node	14977 Mar 03 05:45	10°) 36′29		evening set	14978 Jan 26 16:55	2°) €01'02	
direct	14977 Mar 03 15:29	10°) 35′51		8	14978 Jan 30 08:20	30°R ≈	
morning max el	14977 Mar 11 07:01	14°) 23'41	18°10'19	min. Earth dist.	14978 Jan 31 07:22	29° ≈ 22'18	0.57320 AU
moning man vi	14977 Mar 21 22:54	0° Υ	10 10 17	inferior conj	14978 Feb 03 05:25	27°≈21'26	
morning set	14977 Mar 26 21:59	9° Υ '09'20		minimum elong	14978 Feb 03 14:31	27°≈05'42	
desc. node	14977 Apr 04 22:13	25° Y ′50'22		morning rise	14978 Feb 11 15:02	23°≈03'16	. 2331
dese. Hode	147// hpi 04 22.15	23 1 30 22		direct	14978 Feb 13 15:58	22°≈50'25	
superior conj	14977 Apr 05 15:26	27° Y °07'47	-0°05'52	asc. node	14978 Feb 18 03:11	23°≈56'07	
minimum elong	14977 Apr 05 14:56	27° Υ '05'34	0°06'09	morning max el	14978 Feb 22 12:09	27°≈09'58	18°51'55
behind sun begin	14977 Apr 05 07:52	26° Υ 33'51	0 00 07	morning max er	14978 Feb 25 01:31	0° ₩	10 31 33
behind sun end	14977 Apr 05 07:32	27° Υ 37'14		morning set	14978 Mar 10 19:32	23° ¥ 25'26	
bennia san ena	14977 Apr 03 22:00 14977 Apr 07 06:05	0°8		morning set	14978 Mar 14 04:01	0° Υ	
max. Earth dist.	14977 Apr 13 06:08	10° 8 21'42	1.41605 AU		147/6 Wiai 14 04.01	0 1	
evening rise	14977 Apr 18 04:07	18° 8 28'26	1.41003710	superior conj	14978 Mar 19 10:17	10° Y ′09'05	0°27'30
evening rise	14977 Apr 18 04:07	0°Ⅱ		minimum elong	14978 Mar 19 10:17	10 γ 09 03 10° Υ 17'13	0°27'08
	14977 May 17 00:53	0ಂ ತಾ		desc. node	14978 Mar 22 18:45	16° Υ 24'15	0 27 00
evening max el	14977 May 17 00:33	5°\$20'43	22°53'38	max. Earth dist.	14978 Mar 26 13:00	23° Υ 10'44	1.39379 AU
asc. node	14977 May 21 21:01 14977 May 30 02:47	11°S03'28	22 33 38	evening rise	14978 Mar 30 10:37	29° Y 56'16	1.39379 AU
retrograde	14977 Jun 01 01:34	11° © 20'17		evening rise	14978 Mar 30 11:30	0° 8	
evening set	14977 Jun 06 01:34	9° © 13'47			14978 Apr 18 20:48	0°U	
inferior conj	14977 Jun 11 08:56		2°56'16	evening max el	14978 May 04 11:01	19° Ⅱ 14'48	2401454
minimum elong	14977 Jun 11 08:30	2°954'53	2°55'05	retrograde	14978 May 15 19:04	25° I 53'15	24 14 34
min. Earth dist.	14977 Jun 11 00:43	2 954 55 3°9518'34	0.69039 AU	asc. node	14978 May 16 23:56	25° I I46'58	
iiiii. Lattii tiist.	14977 Jun 13 11:15	30°RⅡ	0.09039 AU	evening set	14978 May 10 23:30	23° ∏ 34'14	
morning rise	14977 Jun 16 13:34	26° ∏ 40'14		min. Earth dist.	14978 May 25 20:48	18° Ⅱ 15'49	0.68663 AU
direct	14977 Jun 21 00:37	24° I I50'46		inferior conj	14978 May 26 17:47	18 Ⅱ 1349 17° Ⅱ 04'57	2°34'07
morning max el	14977 Jun 29 17:24	29° I 52'20	21°16'28	minimum elong	14978 May 26 17:47	17 Ⅱ 04 37 17° Ⅱ 11'39	
morning max er	14977 Jun 29 17:24 14977 Jun 29 20:28	0°95	21 10 28	morning rise	14978 Jun 01 01:14	17 Д 11 39	2 32 44
desc. node	14977 Jul 01 22:40	2°9513'45		direct	14978 Jun 05 00:15	9° П 34'15	
desc. Hode	14977 Jul 22 04:15	0°Ω		morning max el	14978 Jun 12 15:32	13° I I51'03	20002143
morning set	14977 Jul 22 04:13	13° Ω 19'16		desc. node	14978 Jun 18 19:46	21° Ⅱ 05'01	20 02 43
max. Earth dist.	14977 Aug 06 20:15	24°Ω30'17	1.42763 AU	desc. Hode	14978 Jun 25 06:15	0°95	
max. Earth dist.	14977 Aug 00 20:13 14977 Aug 10 04:15	0°m)	1.42/03 AU	morning set	14978 Jul 10 01:37	22°©11'08	
	149// Aug 10 04.13	עוויט		morning set	14978 Jul 15 02:43	0°Ω	
aumorior aoni	14077 Aug 14 02:45	60 m 12111	1022147	may Earth dist			1 44400 ATT
superior conj minimum elong	14977 Aug 14 03:45 14977 Aug 14 10:53	6° Mp 42'44 7° Mp 13'14		max. Earth dist.	14978 Jul 20 07:49	0 061228	1.44488 AU
•	•		1 32 23	superior coni	14079 Iul 25 20:19	17° Ω 04'54	2000/25
evening rise asc. node	14977 Aug 25 14:38 14977 Aug 26 03:22	26° m 55'15 27° m 52'37		superior conj minimum elong	14978 Jul 25 20:18 14978 Jul 26 03:15	$17^{\circ} \Omega 33'11$	
asc. nout	14977 Aug 26 03:22 14977 Aug 27 07:41	2/°110/32/3/ 0° Ω		minimum ciong	14978 Aug 02 15:36	0° m)	2 0041
evening max el	14977 Sep 10 20:02	22° £ 25'31	18°04'40	evening rise	14978 Aug 02 15:36 14978 Aug 08 00:58	0°10µ 9°10∤09'37	
retrograde	14977 Sep 10 20:02 14977 Sep 17 15:58	25° £ 25'31	10 0440	asc. node	•	17° Mp 37'28	
•	*	25° £ 35'30		asc. Hour	14978 Aug 12 23:58	1/°1₩3/′28 0° Ω	
evening set	14977 Sep 19 23:21	25° ± 32′02 20° £ 36′41	0016100	ovening mass -1	14978 Aug 20 18:10		10002152
inferior conj	14977 Sep 26 22:39	20° 2 36'41 20° 2 35'28	0°16'02 0°16'05	evening max el	14978 Aug 25 10:28	5° £ 44'56 9° £ 05'24	18°03'53
minimum elong	14977 Sep 26 23:10			retrograde	14978 Aug 31 20:18	9° 22 05′24 8° 2 29′32	
transit middle	14977 Sep 26 23:10	20° £ 35'28 20° £ 36'19	0°16'05	evening set inferior conj	14978 Sep 03 12:03	8° 2 29′32 3° 2 15′38	1°25'31
transit begin	14977 Sep. 26 22:48			,	14978 Sep 09 20:13	3° 2 15′38	
transit end	14977 Sep 26 23:32	20° ≏ 34'36		minimum elong	14978 Sep 09 22:20	J == 10 02	1 44 40

page 204

inferior conj

14980 Aug 07 03:55

29°**Q**58'12 2°47'11

14979 Aug 18 10:39

21° m 55'33

evening set

minimum elong	14980 Aug 07 05:46	29° Ω 52'19	2°46'17	evening max el	14981 Jul 05 17:57	16° Ω 59'15	19°46'54
	14980 Aug 07 03:21	30°R Ω		retrograde	14981 Jul 13 04:02	21° Ω 10'22	
min. Earth dist.	14980 Aug 08 20:10	27° Ω 50′33	0.66460 AU	evening set	14981 Jul 16 23:36	19° Ω 46′05	
morning rise	14980 Aug 12 19:20	23° Ω 32'34		inferior conj	14981 Jul 22 07:19	13° Ω 48'31	3°04'52
desc. node	14980 Aug 18 11:47	20° Ω 55'36		minimum elong	14981 Jul 22 08:17	13° Ω 45′17	3°04'00
direct	14980 Aug 19 00:14	20° Ω 54'35		min. Earth dist.	14981 Jul 23 09:28	12° Ω 20'47	0.67787 AU
morning max el	14980 Aug 31 21:47	28° Ω 34'27	26°20'33	morning rise	14981 Jul 27 16:31	7° Ω 23'38	
-	14980 Sep 02 06:42	0° m y		direct	14981 Aug 02 11:03	4° Ω 52'10	
	14980 Sep 24 04:48	0∘ ত		desc. node	14981 Aug 05 09:15	5° Ω 25'04	
morning set	14980 Oct 06 19:36	21° ≏ 52'18		morning max el	14981 Aug 14 08:45	12° Ω 00′16	25°00'52
max. Earth dist.	14980 Oct 10 16:19	29° ≙ 15'54	1.34724 AU	•	14981 Aug 28 19:54	0° m)	
	14980 Oct 11 01:19	0° M			14981 Sep 16 22:02	0∘ 亚	
asc. node	14980 Oct 12 19:14	3°M27'57		morning set	14981 Sep 19 04:18	3° ≙ 58′00	
				max. Earth dist.	14981 Sep 22 17:32	10° £ 23′23	1.36861 AU
superior conj	14980 Oct 15 21:41	9° ™ 46'16	0°28'25				
minimum elong	14980 Oct 15 20:10	9° ™ 38′29	0°28'41	superior conj	14981 Sep 29 09:27	23° ≙ 05'50	-0°02'27
evening rise	14980 Oct 23 09:52	25°M29'00		minimum elong	14981 Sep 29 09:36	23° ≏ 06'32	0°02'09
	14980 Oct 25 14:16	0° ∡ ¹		behind sun begin	14981 Sep 29 03:08	22° ♀ 34'45	
evening max el	14980 Nov 11 10:32	26° ₹ 53'34	20°53'01	behind sun end	14981 Sep 29 16:04	23° ₤ 38'23	
desc. node	14980 Nov 14 08:18	29° ∡ ²25′10		asc. node	14981 Sep 29 15:51	23° ≏ 37'21	
	14980 Nov 15 03:54	ರ°ರ			14981 Oct 02 20:34	0° M	
retrograde	14980 Nov 22 22:55	2° る 36'50		evening rise	14981 Oct 07 14:54	9° M 39'07	
evening set	14980 Nov 25 11:09	2° る 21'43		-	14981 Oct 18 14:52	0° ∡ ¹	
•	14980 Dec 01 14:15	30°R. ✓		evening max el	14981 Oct 24 18:45	7° ∡ ¹55'09	19°38'01
inferior conj	14980 Dec 04 07:50	28° ҂ 28'49	-5°25'01	desc. node	14981 Nov 01 05:35	12° ∡ ³33'54	
minimum elong	14980 Dec 03 23:08	28° ҂ ⁴41'15	5°22'23	retrograde	14981 Nov 03 15:49	12° ∡ 751'17	
min. Earth dist.	14980 Dec 05 05:41	27° ҂ ′57'38	0.54504 AU	evening set	14981 Nov 05 14:12	12° ∡ ¹40'48	
morning rise	14980 Dec 12 11:17	24° ₹ ³35'18		inferior conj	14981 Nov 14 07:34	8° ∡ ³37'18	-3°59'25
direct	14980 Dec 16 17:10	23° х 56′38		minimum elong	14981 Nov 13 22:01	8° ∡ ¹52'21	3°55'25
	14980 Dec 29 12:15	8°0		min. Earth dist.	14981 Nov 16 14:13	7° ∡ 11'09	0.55329 AU
morning max el	14980 Dec 29 20:48	0° පි 20'01	23°08'45	morning rise	14981 Nov 22 04:00	4° ≯ 18'01	
asc. node	14981 Jan 08 19:13	12° る 49'11		direct	14981 Nov 27 08:33	3° ≯ 18′01	
	14981 Jan 18 07:28	0°≈		morning max el	14981 Dec 11 05:54	10° ∡ 15′04	24°57'33
morning set	14981 Jan 21 21:15	7° ≈ 27'04			14981 Dec 26 00:19	ರ∘ರ	
				asc. node	14981 Dec 26 16:24	1° る 09'05	
superior conj	14981 Jan 28 19:08	22° ≈ 22'42	1°28'55	morning set	14982 Jan 06 09:08	22° る 08'50	
minimum elong	14981 Jan 28 20:55	22° ≈ 32'13	1°29'27		14982 Jan 09 23:25	0° ≈	
max. Earth dist.	14981 Jan 31 23:50	29° ≈ 09'56	1.33316 AU				
	14981 Feb 01 09:25	0°)		superior conj	14982 Jan 13 03:20	6° ≈ 59'13	1°36'24
evening rise	14981 Feb 05 16:32	8°){ 43'46		minimum elong	14982 Jan 13 04:07	7° ≈ 03'29	1°37'13
desc. node	14981 Feb 10 08:23	17°) € 38'06		max. Earth dist.	14982 Jan 15 00:41	11° ≈ 07'43	1.32060 AU
	14981 Feb 17 10:03	0° Y		evening rise	14982 Jan 20 10:50	22° ≈ 37'57	
	14981 Mar 11 16:10	0°B		-	14982 Jan 24 03:22	0° ∀	
evening max el	14981 Mar 12 03:45	0° ප 28'17	27°18'20	desc. node	14982 Jan 28 05:00	7°) 38′07	
retrograde	14981 Mar 25 17:45	7° 8 58'48			14982 Feb 11 04:48	0 ° $\mathbf{\Upsilon}$	
evening set	14981 Apr 01 10:14	5° 8 28'32		evening max el	14982 Feb 22 15:15	13° Y 32'09	27°35'12
min. Earth dist.	14981 Apr 05 06:49	1° 8 53'47	0.64875 AU	retrograde	14982 Mar 08 12:27	21° Y '00'06	
asc. node	14981 Apr 06 15:57	0° 8 23'41		evening set	14982 Mar 15 08:41	18° Ƴ 39'20	
	14981 Apr 07 00:31	30° ₹Ƴ		min. Earth dist.	14982 Mar 19 02:58	15° Ƴ 32'08	0.62879 AU
inferior conj	14981 Apr 07 17:41	29° Y °12'39	0°20'16	inferior conj	14982 Mar 22 00:19	12° Y 41'59	-0°49'14
minimum elong	14981 Apr 07 17:07	29° Y °14'12	0°19'39	minimum elong	14982 Mar 22 01:57	12° Ƴ 37'58	0°48'40
morning rise	14981 Apr 14 01:53	23° Y '46'06		asc. node	14982 Mar 24 13:24	10° Ƴ 18'36	
direct	14981 Apr 16 17:49	23° Y ′08'59		morning rise	14982 Mar 28 21:58	7° Ƴ 31'15	
morning max el	14981 Apr 23 01:32	26° Y °24′58	17°54'43	direct	14982 Mar 31 05:54	7° Y ′05'36	
S	14981 Apr 26 05:16	0°8		morning max el	14982 Apr 06 19:16		17°46'12
desc. node	14981 May 09 10:28	20° 8 30'59		C	14982 Apr 20 00:38	0°B	
morning set	14981 May 10 15:51	22° 8 32'40		morning set	14982 Apr 22 22:55	5° 8 04'42	
-	14981 May 15 04:17	0°II		desc. node	14982 Apr 26 07:09	10° 8 52'24	
	y				1		
superior conj	14981 May 24 15:21	15° Ⅱ 16'57	-1°42'10	superior conj	14982 May 05 02:33	25° 8 46'34	-1°06'11
minimum elong	14981 May 24 06:30	14° ∏ 41'44		minimum elong	14982 May 04 20:10	25° 8 20'12	
max. Earth dist.	14981 May 28 17:13	21° I I43'20			14982 May 07 16:19	0°II	-
	14981 Jun 03 00:37	0°95		max. Earth dist.	14982 May 11 10:50		1.44452 AU
evening rise	14981 Jun 09 14:51	10°509'37		evening rise	14982 May 20 02:03	19° Ⅱ 36'45	
	14981 Jun 22 18:21	0°Ω			14982 May 26 22:18	0°9	
greatest brilliancy	14981 Jun 23 23:59	1° Ω 48'20	-0.6m		14982 Jun 17 22:08	0°Ω	
asc. node	14981 Jul 03 14:10	14° Ω 39'37	0.0111	evening max el	14982 Jun 18 18:05	0° Ω 51'16	20°51'58
200. 11000	1.751.041 05 14.10	0000001		c. cg max or	,023411 10 10.03	0 000110	-0 0100

ī	14002 1 20 11 04	20 027112			14002 1 01 12 54	1.406.1.410.1	22007120
asc. node	14982 Jun 20 11:04	2° Ω 27'13		evening max el	14983 Jun 01 12:54	14°544'01	22°07'28
retrograde	14982 Jun 27 03:02	5° Ω 41'15		asc. node	14983 Jun 07 08:06	19°517'15	
evening set	14982 Jul 01 09:06	3° £ 59'45		retrograde	14983 Jun 11 00:52	20°©17'45	
::	14982 Jul 05 00:52	30°R≌	2010100	evening set	14983 Jun 15 18:09	18°9519'51	2004121
inferior conj	14982 Jul 06 14:51 14982 Jul 06 14:50	27°950'43	3°10'08 3°09'13	inferior conj minimum elong	14983 Jun 21 00:25	12°501'03	3°04'21
minimum elong		27°950'47		U	14983 Jun 20 23:28	12°504'20	3°03'17
min. Earth dist.	14982 Jul 07 03:20 14982 Jul 11 20:17	27°507'29 21°530'10	0.68655 AU	min. Earth dist.	14983 Jun 20 23:41 14983 Jun 26 04:37	12° © 03'36 5° © 47'01	0.69043 AU
morning rise direct	14982 Jul 17 03:02			morning rise			
		19°9511'43		direct	14983 Jun 30 22:56	3°546'08	
desc. node	14982 Jul 23 06:37 14982 Jul 27 19:26	21°536'24 25°534'11	23°32'20	desc. node	14983 Jul 10 03:52 14983 Jul 10 08:20	9° © 05'08 9° © 16'17	22°04'07
morning max el		23 3 34 11 0° Ω	25 32 20	morning max el		9 3 16 17	22 04 07
	14982 Jul 31 20:14	0° m p		morning set	14983 Jul 26 13:26	25° Ω 17'40	
. ,	14982 Aug 22 07:37			morning set	14983 Aug 12 04:27		
morning set	14982 Aug 31 16:22	15° Mp 08'53	1 20222 ATT	Danila diat	14983 Aug 15 02:10	0° M) 48 M: 10/54	1 41565 ATT
max. Earth dist.	14982 Sep 04 15:29	21° m/56'08	1.39233 AU	max. Earth dist.	14983 Aug 17 17:09	4° ™ 19'54	1.41565 AU
	14982 Sep 09 04:14	0∘ ⊽		superior coni	14092 Aug 25 11:51	17° m 40'04	1012112
	14002 9 12 07-26	50 0 40154	0027112	superior conj	14983 Aug 25 11:51	17° Mp 40'04	
superior conj	14982 Sep 12 07:36	5° Ω 46'54		minimum elong	14983 Aug 25 17:37	18° Mp 05'30	1-12-40
minimum elong	14982 Sep 12 10:20	5° £ 59'37	0°36'44	1	14983 Sep 01 07:53	0° 亞	
asc. node	14982 Sep 16 12:24	13° £ 44'32		asc. node	14983 Sep 03 08:57	3° ≏ 46'27	
evening rise	14982 Sep 21 13:06	23° ₽ 29'36		evening rise	14983 Sep 05 01:02	6° ₽ 52'09	
	14982 Sep 24 22:11	0°M	10045100		14983 Sep 18 22:11	0°M,	10012125
evening max el	14982 Oct 07 16:30	19°M46'00	18°45'08	evening max el	14983 Sep 20 23:57	2°M18'56	18°13'35
retrograde	14982 Oct 16 01:15	23°M59'01		retrograde	14983 Sep 28 06:05	6°M00'51	
evening set	14982 Oct 17 22:57	23°M46'42		evening set	14983 Sep 30 09:18	5°M42'15	
desc. node	14982 Oct 19 02:58	23°M27'37		desc. node	14983 Oct 06 00:23	2°M26'01	
inferior conj	14982 Oct 26 02:08	19°M24'09		inferior conj	14983 Oct 07 18:32	0°M58'11	
minimum elong	14982 Oct 25 20:39	19°MJ34'11	2°10'34	minimum elong	14983 Oct 07 17:20	1°ML00'45	0°32'32
min. Earth dist.	14982 Oct 29 03:53	17° M ₊09'58	0.56934 AU		14983 Oct 08 21:34	30° ₽ Ω	
morning rise	14982 Nov 02 15:09	14°M28'50		min. Earth dist.	14983 Oct 11 01:06	28° ≏ 11'18	0.59034 AU
direct	14982 Nov 08 13:47	13°M 03'02		morning rise	14983 Oct 14 21:58	25° ≏ 27'24	
morning max el	14982 Nov 22 18:45	20°M25'46	26°31'26	direct	14983 Oct 21 08:24	23° △ 35'07	
	14982 Dec 01 00:41	0° ∡ ¹			14983 Nov 03 06:38	0° M	
asc. node	14982 Dec 13 13:28	20° ∡ ¹05'56		morning max el	14983 Nov 04 15:29	1° ጤ 17'24	27°34'26
	14982 Dec 18 14:57	0°ਰ			14983 Nov 25 07:11	0° ∡	
morning set	14982 Dec 21 19:34	6° る 42'30		asc. node	14983 Nov 30 10:25	9° ⋌ ¹29'52 –	
		_		morning set	14983 Dec 06 02:49	21° ∡ 03′26	
superior conj	14982 Dec 28 14:09	21° る 39'57	1°37'45		14983 Dec 10 05:37	0°ಕ	
minimum elong	14982 Dec 28 13:51	21° පි 38'17	1°38'42	max. Earth dist.	14983 Dec 12 14:57	5° る 19'15	1.31080 AU
max. Earth dist.	14982 Dec 29 06:50		1.31307 AU				
	14983 Jan 01 08:25	0° ≈		superior conj	14983 Dec 13 01:39	6° る 19'11	1°33'09
evening rise	14983 Jan 04 12:28	6° ≈ 49'10		minimum elong	14983 Dec 13 00:23	6° ප 12'03	1°34'04
desc. node	14983 Jan 15 01:43	27°≈16′03		evening rise	14983 Dec 19 19:08	21° る 11'33	
	14983 Jan 16 15:43	0° ∀			14983 Dec 24 00:34	0° ≈	
evening max el	14983 Feb 04 22:37	25° ¥ 56'31	27°19'28	desc. node	14984 Jan 01 22:30	16° ≈ 22'53	
	14983 Feb 09 21:30	0°Υ			14984 Jan 11 05:21	0° ∀	
retrograde	14983 Feb 18 22:33	3° Y 15'33		evening max el	14984 Jan 17 23:01	7° ¥ 30′05	26°28'38
evening set	14983 Feb 25 17:12	1° Y 12′03		retrograde	14984 Jan 31 22:19	14°) € 37'48	
	14983 Feb 27 12:35	30° ₹		evening set	14984 Feb 07 08:10	12°) 58′01	
min. Earth dist.	14983 Mar 01 13:03	28° ¥ 25′14	0.60692 AU	min. Earth dist.	14984 Feb 11 12:32	10° 米 20′51	0.58496 AU
inferior conj	14983 Mar 04 17:00	25°) 41′22		inferior conj	14984 Feb 14 15:57	7° ¥ 59'51	
minimum elong	14983 Mar 04 21:46	25°) €31'03	2°08'15	minimum elong	14984 Feb 14 23:58	7°) 44'48	3°34'42
asc. node	14983 Mar 11 10:52	21°) €04'42		morning rise	14984 Feb 22 18:57	3° ¥ 29′04	
morning rise	14983 Mar 12 05:36	20°) 49′15		direct	14984 Feb 24 18:50	3° ¥ 15′20	
direct	14983 Mar 14 07:43	20°) 31′22		asc. node	14984 Feb 26 08:19	3° ¥ 24'06	
morning max el	14983 Mar 21 11:05	24° ₩ 06'10	17°55'56	morning max el	14984 Mar 03 21:15	7° ∺ 15′20	18°25'23
	14983 Mar 26 05:36	0° Υ			14984 Mar 18 09:06	0° Υ	
morning set	14983 Apr 06 01:11	18° Ƴ 30′17		morning set	14984 Mar 19 16:58	2° Ƴ 31'48	
	14983 Apr 12 09:22	0° 8					
desc. node	14983 Apr 13 03:45	1° 8 21'57		superior conj	14984 Mar 28 22:02	19° Y 55'16	0°09'00
				minimum elong	14984 Mar 28 22:40	19° Ƴ 58'10	0°08'40
superior conj	14983 Apr 16 13:33	7° 8 21'52		behind sun begin	14984 Mar 28 16:34	19° Ƴ 30′05	
minimum elong	14983 Apr 16 11:08	7° 8 11'21		behind sun end	14984 Mar 29 04:47	20° Y ′26′11	
max. Earth dist.	14983 Apr 24 00:45	19° 8 59'56	1.42771 AU	desc. node	14984 Mar 30 00:18	21° Y ′55'13	
evening rise	14983 Apr 30 00:35	29° 8 39'44			14984 Apr 03 13:04	0°B	
	14983 Apr 30 05:43	$\Pi^{\circ}0$		max. Earth dist.	14984 Apr 05 10:19	3° 8 15'54	1.40678 AU
	14983 May 20 12:12	0 \circ \odot		evening rise	14984 Apr 09 18:46	10° 8 35'25	

evening max el	14984 Apr 22 04:10 14984 May 14 03:59	0°Ⅱ 28°Ⅱ37'05	23°28'21	evening max el	14985 Apr 16 01:09 14985 Apr 26 17:27	0°П 12°П30'33	24°48'16
asc. node	14984 May 15 14:38 14984 May 24 05:13	0°ഇ 4° ഇ 51'52		retrograde asc. node	14985 May 08 12:02 14985 May 11 02:26	19° Ⅲ 22'52 18° Ⅲ 53'57	
retrograde	14984 May 24 03.13	4 951 32 4°953'36		evening set	14985 May 11 02.28	16° Ц 59'11	
evening set	14984 May 30 01:06	2°931'13		min. Earth dist.	14985 May 18 15:21	11° II 56'35	0.68362 AU
evening set	14984 Jun 01 14:12	30°RII		inferior conj	14985 May 19 17:52	10° I 28'38	2°21'30
inferior conj	14984 Jun 04 10:03	26° Ⅱ 14'51	2°48'09	minimum elong	14985 May 19 15:45	10° I 35'40	
minimum elong	14984 Jun 04 08:21	26° I I20'39	2°46'53	morning rise	14985 May 25 03:21	4° I 31'33	2 20 04
min. Earth dist.	14984 Jun 03 20:21	27° I 101'58	0.68941 AU	direct	14985 May 28 21:23	3° Ⅱ 10'51	
morning rise	14984 Jun 09 15:35	20° I 08'47	0.005 11 110	morning max el	14985 Jun 05 03:57	7° I 11'59	19°35'39
direct	14984 Jun 13 21:30	18° I I27'50		desc. node	14985 Jun 12 22:06	16° Ⅱ 37'27	1, 300,
morning max el	14984 Jun 22 02:33	23° I I08'40	20°43'34	greatest brilliancy	14985 Jun 17 20:05	23° II 37'45	-0.6m
desc. node	14984 Jun 26 01:01	27° I I30'30		e ,	14985 Jun 22 03:07	0ಂತ	
	14984 Jun 28 01:05	0ංම		morning set	14985 Jun 30 20:52	13° © 17'18	
	14984 Jul 18 20:03	$0^{\circ}\Omega$		Č	14985 Jul 11 15:12	$0^{\circ}\Omega$	
morning set	14984 Jul 21 18:01	4° £ 29'35		max. Earth dist.	14985 Jul 12 15:37	1° Ω 36′09	1.45031 AU
max. Earth dist.	14984 Jul 30 01:30	17° Ω 37'30	1.43568 AU				
				superior conj	14985 Jul 17 00:38	8° Ω 33'06	-2°08'11
superior conj	14984 Aug 05 18:01	28° Ω 36′00	-1°45'47	minimum elong	14985 Jul 17 05:56	8° Ω 54'19	2°08'47
minimum elong	14984 Aug 06 01:37	29° Ω 07'45	1°45'37		14985 Jul 30 02:53	0° m)	
	14984 Aug 06 14:05	0° m		evening rise	14985 Jul 30 23:23	1° m 25'47	
evening rise	14984 Aug 17 22:13	19° m 35'25		asc. node	14985 Aug 07 02:11	13° m 17'13	
asc. node	14984 Aug 20 05:33	23° m 39'02		evening max el	14985 Aug 18 03:36	28° m 51'32	18°09'07
	14984 Aug 23 21:07	0∘ ⊽			14985 Aug 19 09:45	0∘ ⊽	
evening max el	14984 Sep 03 12:55	15° ≏ 24'05	18°01'59	retrograde	14985 Aug 24 12:18	2° ₽ 12'26	
retrograde	14984 Sep 10 03:21	18° ≏ 48'45		evening set	14985 Aug 27 07:38	1° ≏ 30'44	
evening set	14984 Sep 12 14:12	18° ≏ 20'11			14985 Aug 29 14:20	30°R, Mp	
inferior conj	14984 Sep 19 06:38	13° ≏ 16'18	0°48'05	inferior conj	14985 Sep 02 10:26	26° m 09'37	1°48'47
minimum elong	14984 Sep 19 08:02	13° ≙ 12'51	0°47'41	minimum elong	14985 Sep 02 12:47	26° m, 03'06	1°47'53
desc. node	14984 Sep 21 21:50	10° Ω 40'45		min. Earth dist.	14985 Sep 05 00:38	23° m 17'56	0.63535 AU
min. Earth dist.	14984 Sep 22 07:52	10° £ 16'56	0.61317 AU	morning rise	14985 Sep 08 15:59	19° m 54'00	
morning rise	14984 Sep 25 23:03	7° £ 17'58		desc. node	14985 Sep 08 19:21	19° Mp 47'37	
direct	14984 Oct 02 14:48	5° £ 02'31	27959140	direct	14985 Sep 15 07:12	17° My 22'24	27944154
morning max el	14984 Oct 16 19:48	12° ♀ 58'32 0° ル	27°58'49	morning max el	14985 Sep 29 04:55	25° M 22'52 0° <u>₽</u>	27°44'54
asc. node	14984 Oct 30 10:11 14984 Nov 16 07:17	บาน 29°ML13'21			14985 Oct 03 10:49 14985 Oct 23 22:19	0° M	
asc. node	14984 Nov 16 16:38	0° √		morning set	14985 Nov 02 23:32	18° M L47'01	
morning set	14984 Nov 19 04:56	5° ∡ 107'07		asc. node	14985 Nov 03 04:03	19°ML09'43	
max. Earth dist.	14984 Nov 24 21:08		1.31391 AU	max. Earth dist.	14985 Nov 07 21:21		1.32257 AU
max. Earth dist.	119011101 21 21.00	17 7 17 00	1.51571710	max. Earth dist.	14985 Nov 08 09:21	0° ⊼ ¹	1.5225 / 110
superior conj	14984 Nov 26 12:02	20° ₹ 52'01	1°22'38				
minimum elong	14984 Nov 26 10:02	20° х 40′53	1°23'22	superior conj	14985 Nov 10 19:17	5° ∡ 12'14	1°06'12
Č	14984 Nov 30 14:44	ರ°0		minimum elong	14985 Nov 10 16:57	4° ∡ 759'37	1°06'42
evening rise	14984 Dec 03 04:54	5° ⋜ 40'14		evening rise	14985 Nov 17 15:51	20° х 09'41	
-	14984 Dec 15 18:56	0° ≈		-	14985 Nov 22 09:02	0°ರ	
desc. node	14984 Dec 18 19:24	4° ≈ 47'08		desc. node	14985 Dec 05 16:25	22° る 12'11	
evening max el	14984 Dec 29 14:47	18° ≈ 11'11	25°06'47	evening max el	14985 Dec 11 00:40	28° る 14'59	23°26'26
retrograde	14985 Jan 12 10:18	25° ≈ 06'48			14985 Dec 12 23:20	0° ≈	
evening set	14985 Jan 18 01:48	23° ≈ 55′10		retrograde	14985 Dec 24 09:21	4° ≈ 52'46	
min. Earth dist.	14985 Jan 23 02:54	21° ≈ 12′00	0.56533 AU	evening set	14985 Dec 28 20:24	4° ≈ 09'36	
inferior conj	14985 Jan 25 18:17	19° ≈ 29'02		min. Earth dist.	14986 Jan 04 11:17	1° ≈ 01'23	0.55093 AU
minimum elong	14985 Jan 26 03:18	19° ≈ 14'22	4°56'32	inferior conj	14986 Jan 06 00:23	0° ≈ 07'19	-5°52'36
morning rise	14985 Feb 03 07:18	15° ≈ 20'04		minimum elong	14986 Jan 06 04:45	0° ≈ 00'56	5°51'19
direct	14985 Feb 05 11:06	15° ≈ 06'46			14986 Jan 06 05:24	30°R 云	
asc. node	14985 Feb 12 05:43	17°≈27'57		morning rise	14986 Jan 14 14:41	26°る15'01	
morning max el	14985 Feb 14 21:42	19° ≈ 42'01	19°16'30	direct	14986 Jan 17 08:02	25° る 57'05	
	14985 Feb 22 15:43	0° ₩			14986 Jan 26 23:15	0°≈	20020140
morning set	14985 Mar 03 18:01	16° ¥ 56'37 0° Ƴ		morning max el	14986 Jan 28 08:35	1°≈15'16	20°30'49
	14985 Mar 10 07:40	U- Y		asc. node	14986 Jan 30 03:05	3°≈05'26	
gunorier cor:	14005 Mar. 11, 22:40	3° Ƴ 14'51	0°39'48	morning set	14986 Feb 15 06:35	0° ∺ 1° ∺ 34'47	
superior conj minimum elong	14985 Mar 11 23:40 14985 Mar 12 01:54	3° Υ 14'51 3° Υ 25'38	0°39'48 0°39'29	morning set	14986 Feb 16 01:04	1 八344/	
desc. node	14985 Mar 12 01:54 14985 Mar 16 20:51	12° Y 28'51	U 39 47	superior conj	14986 Feb 23 14:03	17° ₩ 07'54	1°04'07
max. Earth dist.	14985 Mar 18 16:39	12 γ 28 31 15° γ 48'53	1.38404 AU	minimum elong	14986 Feb 23 16:41	17 X 0734	1°04'07
evening rise	14985 Mar 22 10:04	22° Υ 25'17	1.50 10 1110	max. Earth dist.	14986 Feb 28 23:58	27°) 49'57	1.36193 AU
- ,5 1100							
	14985 Mar 26 21:18	0°8		man. Barur dige.	14986 Mar 02 03:15	0°Υ	1.50175110

daga mada	14096 Mar 02 17:24	2° Y ′58'53		ovenina rice	14987 Feb 15 21:16	18° ¥ 15'28	
desc. node	14986 Mar 03 17:24	2° γ 38'33 5° γ 01'52		evening rise			
evening rise	14986 Mar 04 20:05			desc. node	14987 Feb 18 13:58	23°) €21'12	
	14986 Mar 19 18:48	0°8			14987 Feb 22 06:15	0° Υ	
evening max el	14986 Apr 09 06:59	_	26°00'04		14987 Mar 13 23:33	0° 8	
	14986 Apr 13 10:07	Π °0		evening max el	14987 Mar 22 20:52	10° 8 05'04	26°56'10
retrograde	14986 Apr 21 23:14	3° Ⅱ 38'49		retrograde	14987 Apr 05 04:38	17° 8 32'59	
asc. node	14986 Apr 27 23:43	1° Ⅱ 13'38		evening set	14987 Apr 11 16:55	15° 8 01'04	
evening set	14986 Apr 28 02:19	1° Ⅱ 08'16		asc. node	14987 Apr 14 21:06	12° 8 00'20	
	14986 Apr 29 08:15	30° ₹ 8		min. Earth dist.	14987 Apr 15 16:01	11° 8 07'53	0.65878 AU
min. Earth dist.	14986 May 02 06:38	26° 8 41'16	0.67328 AU	inferior conj	14987 Apr 17 19:48	8° 8 38'02	0°54'27
inferior conj	14986 May 03 21:53	24° 8 38'20	1°43'54	minimum elong	14987 Apr 17 18:26	8° 8 42'00	0°53'25
minimum elong	14986 May 03 19:49	24° 8 44'51	1°42'29	morning rise	14987 Apr 23 21:21	3° 8 03'11	
morning rise	14986 May 09 14:02	18° 8 51'30		direct	14987 Apr 26 18:30	2° 8 17'50	
direct	14986 May 12 21:05	17° 8 49'40		morning max el	14987 May 03 02:40	5° 8 36'51	18°07'26
morning max el	14986 May 19 12:31	21° 8 23'29	18°43'12	desc. node	14987 May 17 15:55	26° 8 14'24	
	14986 May 26 12:32	0°II			14987 May 19 23:54	0°II	
desc. node	14986 May 30 19:04	6° Ⅱ 15'01		morning set	14987 May 21 23:30	3° Ⅱ 12'10	
morning set	14986 Jun 10 09:38	22° I 37'44		morning sec	11707 May 21 23.50	3 112 10	
morning set	14986 Jun 15 03:04	0°95		superior conj	14987 Jun 05 22:47	27° II 02'55	1050124
Fault die			1 45010 ATT				
max. Earth dist.	14986 Jun 25 09:52	16° © 01'53	1.45818 AU	minimum elong	14987 Jun 05 14:43	26° Ⅱ 31'18	1-38-49
					14987 Jun 07 20:01	0°©	
superior conj	14986 Jun 26 13:25	17° 5 49'30		max. Earth dist.	14987 Jun 08 06:11	0° © 39'41	1.45866 AU
minimum elong	14986 Jun 26 11:33		2°14'17	evening rise	14987 Jun 22 01:28	22° © 05'18	
	14986 Jul 04 07:31	0 \circ Ω			14987 Jun 27 04:30	0 \circ Ω	
evening rise	14986 Jul 12 00:14	12° Ω 14'05		greatest brilliancy	14987 Jul 04 02:40	10° Ω 32'21	-0.7m
greatest brilliancy	14986 Jul 18 08:27	22° Ω 21′56	-0.9m	asc. node	14987 Jul 11 19:40	21° Ω 26′23	
	14986 Jul 23 05:34	0° m y		evening max el	14987 Jul 16 02:08	26° Ω 22'34	19°15'50
asc. node	14986 Jul 24 22:53	2° m 35'38			14987 Jul 21 10:07	0° m)	
evening max el	14986 Aug 01 16:53	12° m 33'34	18°34'03	retrograde	14987 Jul 23 01:48	0° m 14'58	
retrograde	14986 Aug 08 04:53	16° m 03'48			14987 Jul 24 16:30	30°R Ω	
evening set	14986 Aug 11 09:14	15°Mp06'31		evening set	14987 Jul 26 15:43	29° Ω 00′36	
inferior conj	14986 Aug 17 01:59	9° m 30'12	2°30'32	inferior conj	14987 Aug 01 01:50	23° Ω 10′29	2°56'17
minimum elong	14986 Aug 17 04:12	9° m 23'27	2°29'36	minimum elong	14987 Aug 01 03:20	23° Ω 05'35	2°55'24
min. Earth dist.	14986 Aug 19 02:34	7° m) 02'47	0.65497 AU	min. Earth dist.	14987 Aug 02 12:05	21° Ω 19'00	0.67082 AU
morning rise	14986 Aug 22 22:00	3° M) 06'20	0.00 157 110	morning rise	14987 Aug 06 14:20	16° Ω 44'52	0.07002110
desc. node	14986 Aug 26 16:51	0° m ₂ 53'25		direct	14987 Aug 12 15:13	14°Ω08'37	
direct	14986 Aug 29 07:53	0° m ₀ 27'48		desc. node	14987 Aug 13 14:19	14° Ω 12'09	
morning max el	14986 Sep 11 16:01	8° m) 19'27	26°58'33	morning max el	14987 Aug 25 03:06	21°Ω36'14	25°48'20
morning max er	•	0∘ ت 1927	20 38 33	morning max er	-	0°m)	23 46 20
	14986 Sep 28 14:00				14987 Sep 01 10:41	0∘ ত اللا	
	14986 Oct 16 07:21	0°M,			14987 Sep 21 19:23		
morning set	14986 Oct 17 07:49	1°M56'50		morning set	14987 Sep 30 02:14	14° £ 27'53	
asc. node	14986 Oct 21 00:47	9° M ₁14'23		max. Earth dist.	14987 Oct 03 18:03	21° Ω 18'14	1.35591 AU
max. Earth dist.	14986 Oct 21 12:32	10°M13'38	1.33677 AU	asc. node	14987 Oct 07 21:26	29° ₾ 22'53	
					14987 Oct 08 04:53	0° M	
superior conj	14986 Oct 25 21:11	19° M .14'31	0°43'53				
minimum elong	14986 Oct 25 19:09	19° ™ 03'49	0°44'11	superior conj	14987 Oct 09 15:02	2°M51'39	0°15'56
	14986 Oct 30 22:21	0° ∡ ¹		minimum elong	14987 Oct 09 14:06	2°M46'56	0°16'12
evening rise	14986 Nov 02 02:09	4° ∡ ³35'50		evening rise	14987 Oct 17 09:45	18° ጤ 53'16	
	14986 Nov 15 19:25	8°0			14987 Oct 22 23:06	0° ∡ ¹	
evening max el	14986 Nov 22 13:11	8° ප 16'31	21°45'21	evening max el	14987 Nov 04 13:03	18° ∡ 750′21	20°18'30
desc. node	14986 Nov 22 13:33	8° る 17'23		desc. node	14987 Nov 09 10:45	22° ∡ ³37'44	
retrograde	14986 Dec 04 21:27	14° ♂ 22'58		retrograde	14987 Nov 15 08:37	24° ∡ 13'19	
evening set	14986 Dec 08 00:31	14° る 00'58		evening set	14987 Nov 17 13:15	24° ₹ '01'04	
inferior conj	14986 Dec 16 17:13	10° පි 09'15	-5°52'47	inferior conj	14987 Nov 26 10:12	20° х 05'07	-4°53'17
minimum elong	14986 Dec 16 12:27	10° る 15'54		minimum elong	14987 Nov 26 00:13	20° × 19'49	4°49'46
min. Earth dist.	14986 Dec 16 17:05		0.54456 AU	min. Earth dist.	14987 Nov 27 23:22	19°×710'21	0.54751 AU
		6°る21'21	0.54450 AU			16° × 1021	0.54751 AO
morning rise	14986 Dec 25 01:06			morning rise	14987 Dec 04 10:36		
direct	14986 Dec 28 17:09	5° そ 51'53	22007142	direct	14987 Dec 09 02:53	15° 🗷 15'50	22055124
morning max el	14987 Jan 10 04:44	11°る53'17	22°06'43	morning max el	14987 Dec 22 15:02	21° ₹ 53'52	23°55'34
asc. node	14987 Jan 17 00:24	19° る 59'17			14987 Dec 29 15:26	0°る	
	14987 Jan 23 05:34	0° ≈		asc. node	14988 Jan 03 21:38	7° る 52'19	
morning set	14987 Jan 31 11:34	16°≈18'58			14988 Jan 15 11:35	0° ≈	
	14987 Feb 06 21:40	0° ∀		morning set	14988 Jan 15 23:29	1° ≈ 03'37	
superior conj	14987 Feb 07 13:34	1°) 24′07	1°21'44	superior conj	14988 Jan 22 19:18	15° ≈ 55'30	1°32'50
minimum elong	14987 Feb 07 15:47	1° ¥ 35'51	1°22'03	minimum elong	14988 Jan 22 20:41	16° ≈ 02'57	1°33'30
max. Earth dist.	14987 Feb 11 13:13	9°) 40′19	1.34258 AU	max. Earth dist.	14988 Jan 25 10:20	21° ≈ 35′16	1.32730 AU

	14988 Jan 29 11:01	0°) {			14988 Dec 22 16:46	0°₹	
evening rise	14988 Jan 30 10:13	1° ¥ 57'22		morning set	14988 Dec 30 10:59	5° ठ 42'39	
desc. node	14988 Feb 05 10:34	13°) (31'17			14989 Jan 05 22:39	0° ≈	
	14988 Feb 15 03:53	$0^{\circ}\Upsilon$					
evening max el	14988 Mar 04 09:54	23° Y 27'24	27°29'11	superior conj	14989 Jan 06 04:50	0° ≈ 34'20	1°37'42
Č	14988 Mar 13 15:24	0°8		minimum elong	14989 Jan 06 05:10	0° ≈ 36′07	1°38'36
retrograde	14988 Mar 18 03:18	0° 8 56'47		max. Earth dist.	14989 Jan 07 13:58	3° ≈ 37'36	1.31677 AU
	14988 Mar 22 08:59	30° ₹ Υ		evening rise	14989 Jan 13 07:54	15° ≈ 59'15	
evening set	14988 Mar 24 21:59	28° Y 29'54			14989 Jan 20 10:42	0°) €	
min. Earth dist.	14988 Mar 28 17:23	25° Y 07'29	0.64065 AU	desc. node	14989 Jan 22 07:12	3°) €22'46	
inferior conj	14988 Mar 31 08:56	22° Y 21'08	-0°07'37		14989 Feb 09 00:54	0° Y	
minimum elong	14988 Mar 31 09:10	22° Y 20'31	0°07'48	evening max el	14989 Feb 14 19:51		27°32'36
transit middle	14988 Mar 31 09:10	22° Y 20'31	0°07'48	retrograde	14989 Feb 28 18:17	13° Y ′39'46	
transit begin	14988 Mar 31 06:27	22° Y 27'40		evening set	14989 Mar 07 14:52	11° Y 25'10	
transit end	14988 Mar 31 11:53	22° Y 13'22		min. Earth dist.	14989 Mar 11 09:06	8° Y ′28′02	0.61973 AU
asc. node	14988 Mar 31 18:29	21° Y 56'06		inferior conj	14989 Mar 14 10:03	5° Y 38'30	
morning rise	14988 Apr 06 22:34	17° Y ′00'46		minimum elong	14989 Mar 14 12:55	5° Y 31'48	1°21'09
direct	14988 Apr 09 11:01	16° Y ′28'48		asc. node	14989 Mar 18 15:56	2° Y 05'09	
morning max el	14988 Apr 15 19:57	19° Y 44'55	17°48'54	morning rise	14989 Mar 21 13:58	0° Υ 35'31	
	14988 Apr 23 13:58	0°8		direct	14989 Mar 23 19:13	0°Υ13'33	
morning set	14988 May 02 16:51	15° 8 05'51		morning max el	14989 Mar 30 13:19	3° Y 38′09	17°48'04
desc. node	14988 May 03 12:40	16° 8 29'31		morning set	14989 Apr 15 08:47	28° Y ′02′28	
	14988 May 11 14:59	Π $^{\circ}0$			14989 Apr 16 11:17	0°8	
	14000 M 15 21 21	60 π επ ι 2	1007140	desc. node	14989 Apr 20 09:19	6° 8 54'40	
superior conj	14988 May 15 21:31	6° ∏ 57'13			14000 A 26 10 51	1700 - 4150	0040120
minimum elong	14988 May 15 13:17	6° Ⅲ 24'00 15° Ⅲ 13'45		superior conj	14989 Apr 26 18:51	17° 8 54'53	
max. Earth dist.	14988 May 21 01:58	15°Щ13'45 0° ©	1.45172 AU	minimum elong max. Earth dist.	14989 Apr 26 14:10	29° 8 26'21	0°49'36 1.43803 AU
evening rise	14988 May 30 13:53 14988 May 31 13:15	1° 5 29'29		max. Earm dist.	14989 May 03 18:24 14989 May 04 02:45	29 O 2021 0° Ⅱ	1.43603 AU
evening rise	14988 Jun 19 20:51	1 3 2929		evening rise	14989 May 11 03:37	11° Ⅱ 07'37	
asc. node	14988 Jun 27 16:30	9° Ω 40'12		evening rise	14989 May 23 16:29	11 д 0/3/	
evening max el	14988 Jun 28 05:43	10°Ω13'54	20°12'59	evening max el	14989 Jun 11 03:19	24° © 05'30	21°23'00
retrograde	14988 Jul 06 00:38	14°Ω40'13	20 12 37	asc. node	14989 Jun 14 13:26	27° © 03'50	21 23 00
evening set	14988 Jul 10 00:41	13° Ω 08'19		retrograde	14989 Jun 19 23:25	29° © 14'07	
inferior conj	14988 Jul 15 07:14	7° Ω 05'38	3°08'30	evening set	14989 Jun 24 10:12	27° © 25'18	
minimum elong	14988 Jul 15 07:47	7° Ω 03'46	3°07'37	inferior conj	14989 Jun 29 15:53	21° © 11'37	3°09'00
min. Earth dist.	14988 Jul 16 03:26	5°Ω56'46	0.68221 AU	minimum elong	14989 Jun 29 15:27	21° © 13'06	3°08'01
morning rise	14988 Jul 20 14:33	0°Ω42'29		min. Earth dist.	14989 Jun 29 22:36	20°5548'09	0.68878 AU
S	14988 Jul 21 11:11	30°Rூ		morning rise	14989 Jul 04 20:29	14° © 53'37	
direct	14988 Jul 26 04:11	28°916'05		direct	14989 Jul 09 21:51	12° 5 42'30	
desc. node	14988 Jul 30 11:44	29° 5 27'33		desc. node	14989 Jul 17 09:03	16° © 14'26	
	14988 Jul 31 10:44	$0^{\circ}\Omega$		morning max el	14989 Jul 20 01:15	18° 5 43'15	22°54'19
morning max el	14988 Aug 06 13:46	5° Ω 05′23	24°23'44		14989 Jul 29 12:35	$0^{\circ}\Omega$	
	14988 Aug 25 19:23	0° m			14989 Aug 18 22:07	0° m	
morning set	14988 Sep 11 02:37	26° To $10^{\circ}31$		morning set	14989 Aug 23 04:48	6° ™ 55'48	
	14988 Sep 13 06:57	0∘ ত		max. Earth dist.	14989 Aug 27 16:31	14°M) 27'17	1.40242 AU
max. Earth dist.	14988 Sep 14 17:25	2° ჲ 33'56	1.37858 AU				
				superior conj	14989 Sep 04 12:32	28° Mp 16'47	
superior conj	14988 Sep 21 21:28	15° Ω 55'16		minimum elong	14989 Sep 04 16:33	28° m/35'08	0°52'02
minimum elong	14988 Sep 21 22:36	16° Ω 00'42	0°16'28		14989 Sep 05 11:06	0∘ ⊽	
asc. node	14988 Sep 23 18:01	19° Ω 31'21		asc. node	14989 Sep 10 14:35	9° Ω 36'40	
	14988 Sep 29 01:00	0°M		evening rise	14989 Sep 14 06:35	16° ≏ 35'30	
evening rise	14988 Sep 30 12:13	2°M55'33 0°⊀			14989 Sep 21 12:33	0°M 12°M 21141	10020111
arraning may al	14988 Oct 16 22:25		10012140	evening max el	14989 Sep 30 05:34	12°M21'41	18°29'11
evening max el retrograde	14988 Oct 17 03:13 14988 Oct 26 07:56	0° х 12′09 4° х 49′16	19°12'48	retrograde evening set	14989 Oct 08 01:56 14989 Oct 10 01:21	16°M20'14 16°M05'53	
desc. node	14988 Oct 26 08:04	4° × ⁷ 49'16		desc. node	14989 Oct 10 01:21 14989 Oct 13 05:28	14°M48'39	
evening set	14988 Oct 28 04:54	4°×7'38'34		inferior conj	14989 Oct 17 21:00	11°M34'14	-1°29'15
inferior conj	14988 Oct 28 04:34 14988 Nov 05 17:03	0° ₹ 27'11	-3°15'07	minimum elong	14989 Oct 17 21:00 14989 Oct 17 17:29	11°M41'07	
minimum elong	14988 Nov 05 17:03	0° х 2711 0° х 40'46		min. Earth dist.	14989 Oct 21 02:19	9°M03'39	
initidiii Cittiig	14988 Nov 06 09:12	30°RM	J .1.21	morning rise	14989 Oct 25 06:07	6°M22'47	0.01110 AU
min. Earth dist.	14988 Nov 08 09:28	28°M39'33	0.55926 AU	direct	14989 Oct 31 10:21	4°M45'37	
morning rise	14988 Nov 13 10:33	25°M53'19		morning max el	14989 Nov 14 17:14	12°M18'13	27°02'46
direct	14988 Nov 18 23:15	24°M43'06		5	14989 Nov 28 14:20	0° ∡ ¹	
	14988 Nov 30 23:15	0° ∡ 7		asc. node	14989 Dec 07 15:48	15° ∡ ³38'22	
morning max el	14988 Dec 03 00:56	1° ∡ 751′20	25°40'34	morning set	14989 Dec 14 20:18	0° る 11'29	
asc. node	14988 Dec 20 18:46	26° ₹ ′29′08		-	14989 Dec 14 18:09	ರ∘ರ	

superior conj	14989 Dec 21 16:11	15° る 15'01	1°36'31		14990 Nov 21 19:58	0° ∡ ¹	
minimum elong	14989 Dec 21 15:27	15° ප 10'56	1°37'29	asc. node	14990 Nov 24 12:43	5° ҂ 10'47	
max. Earth dist.	14989 Dec 21 21:18	15° る 43'38	1.31139 AU	morning set	14990 Nov 29 01:36	14° ∡ ¹24'57	
evening rise	14989 Dec 28 11:55	0°≈15'25		max. Earth dist.	14990 Dec 05 04:48	27° х 45'25	1.31139 AU
S	14989 Dec 28 09:01	0° ≈					
desc. node	14990 Jan 09 03:56	22° ≈ 48'27		superior conj	14990 Dec 06 03:27	29° х 51'42	1°29'25
desc. Hode	14990 Jan 13 13:26	0° \		minimum elong	14990 Dec 06 01:49	29° х 42'38	1°30'16
avanina may al	14990 Jan 28 00:18	18° ∺ 17'58	27°01'58	minimum clong		29 x 42 36	1 30 10
evening max el			27 01 38		14990 Dec 06 04:56		
retrograde	14990 Feb 11 00:28	25° ₩ 33'12		evening rise	14990 Dec 12 20:07	14°る40'22	
evening set	14990 Feb 17 16:25	23°) 38′44			14990 Dec 20 09:01	0° ≈	
min. Earth dist.	14990 Feb 21 14:35		0.59749 AU	desc. node	14990 Dec 27 00:48	11° ≈ 38′22	
inferior conj	14990 Feb 24 19:35	18° ∺ 21'10		evening max el	14991 Jan 09 21:07	29° ≈ 28'36	25°57'12
minimum elong	14990 Feb 25 01:49	18°) €08′28	2°44'33		14991 Jan 10 10:35	0° ℋ	
morning rise	14990 Mar 04 14:38	13° ¥ 38′12		retrograde	14991 Jan 23 19:49	6°) 31′45	
asc. node	14990 Mar 05 13:23	13°) €27'05		evening set	14991 Jan 29 22:48	5°) €03'52	
direct	14990 Mar 06 15:07	13° ¥ 22'39		min. Earth dist.	14991 Feb 03 10:15	2°) €26'00	0.57608 AU
morning max el	14990 Mar 14 03:16	17° ∺ 06'49	18°05'56	inferior conj	14991 Feb 06 10:02	0°) 19'32	-4°14'23
morning man or	14990 Mar 23 06:12	0°Υ	10 00 00	minimum elong	14991 Feb 06 18:57		4°11'05
morning set	14990 Mar 29 17:21	11° Υ 44'29		minimum ciong	14991 Feb 06 21:06	30°R≈	4 11 05
•		27° Y 25'55			14991 Feb 14 18:06	25°≈58'00	
desc. node	14990 Apr 07 05:53	21 1 23 33		morning rise			
				direct	14991 Feb 16 18:29	25°≈45'04	
superior conj	14990 Apr 08 15:27	29° Y 56′06		asc. node	14991 Feb 20 10:49	26°≈30'44	
minimum elong	14990 Apr 08 14:30	29° Y 51'51	0°11'36		14991 Feb 25 10:05	0° ∀	
behind sun begin	14990 Apr 08 09:09	29° Ƴ 27'58		morning max el	14991 Feb 25 09:52	29° ≈ 59'28	18°44'21
behind sun end	14990 Apr 08 19:52	0° 8 15'41		morning set	14991 Mar 13 13:37	25°) 57′31	
	14990 Apr 08 16:20	9° 8			14991 Mar 15 15:23	0 ° Υ	
max. Earth dist.	14990 Apr 16 05:54	13° 8 03'14	1.41917 AU				
evening rise	14990 Apr 21 09:52	21° 8 31'20		superior conj	14991 Mar 22 07:50	12° Y 50'49	0°22'49
C	14990 Apr 26 18:59	Π°		minimum elong	14991 Mar 22 09:19	12° Ƴ 57'45	0°22'26
	14990 May 17 21:10	0°ಅ		desc. node	14991 Mar 25 02:27	17° Ƴ 59'53	
evening max el	14990 May 24 20:09	7° 9 57'27	22°41'37	max. Earth dist.	14991 Mar 29 13:31	25° Y 59'46	1.39718 AU
asc. node	14990 Jun 01 10:29	13° © 24'47	22 4137	max. Lartii dist.	14991 Mar 31 20:57	0° 8	1.57/10/10
retrograde	14990 Jun 03 20:30	13°950'37		evening rise	14991 Apr 02 13:18	2° 8 51'29	
•				evening rise	•		
evening set	14990 Jun 08 18:34	11°546'21	2050146		14991 Apr 20 00:22	0°II	2.4000155
inferior conj	14990 Jun 14 01:43	5°523'47	2°58'46	evening max el	14991 May 07 10:28	21° I I51'43	24°02'57
minimum elong	14990 Jun 14 00:25	5° 5 28'16	2°57'36	retrograde	14991 May 18 14:30	28° II 24'32	
min. Earth dist.	14990 Jun 13 19:27	5° © 45'34	0.69053 AU	asc. node	14991 May 19 07:39	28° Ⅱ 22'18	
	14990 Jun 18 09:26	30°R Ⅱ		evening set	14991 May 24 00:11	26° Ⅱ 07'12	
morning rise	14990 Jun 19 06:09	29° Ⅱ 12'46		min. Earth dist.	14991 May 28 15:48	20° Ⅱ 43'22	0.68753 AU
direct	14990 Jun 23 19:03	27° Ⅲ 20′15		inferior conj	14991 May 29 10:51	19° Ⅱ 38'38	2°38'10
	14990 Jun 29 21:42	0 \circ \odot		minimum elong	14991 May 29 08:56	19° Ⅱ 45′08	2°36'49
morning max el	14990 Jul 02 16:04	2° © 29'13	21°28'30	morning rise	14991 Jun 03 17:44	13° Ⅲ 35'59	
desc. node	14990 Jul 04 06:16	4° © 09'05		direct	14991 Jun 07 18:33	12° Ⅱ 03'32	
	14990 Jul 23 10:00	$0^{\circ}\Omega$		morning max el	14991 Jun 15 13:06	16° Ⅱ 26'04	20°12'49
morning set	14990 Aug 03 06:36	16° Ω 38'10		desc. node	14991 Jun 21 03:23	22° Ⅱ 53'46	
max. Earth dist.	14990 Aug 09 20:17		1.42467 AU	acco. noue	14991 Jun 26 09:17	0°9	
max. Earth dist.	14990 Aug 11 13:03	0° m	1.42407 710	morning set	14991 Jul 13 13:24	25°933'26	
	14770 Aug 11 13.03	עוו ט		morning set	14991 Jul 16 10:20	0°Ω	
	14000 A 17 07-47	00 m 45150	1927/40	Easth dist			1 44272 ATT
superior conj	14990 Aug 17 07:47	9° m 45'59		max. Earth dist.	14991 Jul 23 07:08	10° Ω 48′21	1.44273 AU
minimum elong	14990 Aug 17 14:37	10° Mp 15'28	1~2/'23		14001 7 1 20 22 22	200 21 ::25	105650
asc. node	14990 Aug 28 11:09	29° m 34'43		superior conj	14991 Jul 29 03:52	20° Ω 16'38	
evening rise	14990 Aug 28 12:50	29° Mp 42'22		minimum elong	14991 Jul 29 11:09	20° Ω 46'29	1°57'08
	14990 Aug 28 16:44	0∘ ಹ			14991 Aug 04 00:24	0° m	
evening max el	14990 Sep 13 15:54	25° ♀ 09'22	18°06'21	evening rise	14991 Aug 11 02:09	12° m 04'18	
retrograde	14990 Sep 20 14:06	28° ≏ 42'06		asc. node	14991 Aug 15 07:47	19° m 21'36	
evening set	14990 Sep 22 20:22	28° ♀ 19'45			14991 Aug 21 18:56	0∘ ত	
inferior conj	14990 Sep 29 22:11	23° ≏ 27'19	0°03'42	evening max el	14991 Aug 28 06:07	8° £ 25'17	18°02'49
minimum elong	14990 Sep 29 22:19	23° £ 27'01	0°03'56	retrograde	14991 Sep 03 16:44	11° ≏ 46'18	
transit middle	14990 Sep 29 22:19	23° Ω 27'01	0°03'56	evening set	14991 Sep 06 07:16	11° ⊆ 12'20	
transit begin	14990 Sep 29 19:04	23° Ω 34'24		inferior conj	14991 Sep 12 17:27	6° £ 00'54	1°16'17
transit end	14990 Sep 30 01:34	23° £ 19'37		minimum elong	14991 Sep 12 17:27	5° £ 55'47	1°15'37
				•	-		
desc. node	14990 Sep 30 02:55	23° £ 16'32	0.60000 411	min. Earth dist.	14991 Sep 15 14:31	3° £ 02'37	0.62293 AU
min. Earth dist.	14990 Oct 03 03:38	20° £ 32'15	0.60000 AU	desc. node	14991 Sep 17 00:24	1° £ 41'55	
morning rise	14990 Oct 06 21:00	17° £ 43'36		morning rise	14991 Sep 19 05:12	29° m 54'19	
direct	14990 Oct 13 10:38	15° ≙ 40'21			14991 Sep 19 02:02	30°R, Mp	
morning max el	14990 Oct 27 17:18	23° ჲ 30′00	27°49'35	direct	14991 Sep 25 21:35	27° m 30'52	
	14990 Nov 02 13:44	0° M ₊			14991 Oct 03 07:42	0∘ ⊽	

morning max el	14991 Oct 09 23:46	5° £ 29'23	27°57'12	morning max el	14992 Sep 21 10:05	18°₯08'58 0°₽	27°28'44
asc. node	14991 Oct 28 12:04 14991 Nov 11 09:34	0°M 24°M59'58			14992 Oct 01 09:37 14992 Oct 20 09:57	0° ™	
morning set	14991 Nov 11 09.34 14991 Nov 13 00:48	28°M18'27		morning set	14992 Oct 26 15:24	11°ML46'31	
morning set	14991 Nov 13 20:32	20 1101027 0° √ 1		asc. node	14992 Oct 28 06:21	15°ML00'32	
max. Earth dist.	14991 Nov 18 08:50	9° × ⁷ 35'18	1.31694 AU	max. Earth dist.	14992 Oct 31 05:46	21°M06'34	1.32799 AU
superior conj	14991 Nov 20 12:45	14° ∡ °19′26	1°16'24	superior conj	14992 Nov 03 18:02	28°M32'54	
minimum elong	14991 Nov 20 10:33	14° ∡ *07'19 −	1°17'01	minimum elong	14992 Nov 03 15:45	28°M20'37	0°57'51
evening rise	14991 Nov 27 06:37	29° ∡ *09'40			14992 Nov 04 10:13	0° ∡ ¹	
1 1	14991 Nov 27 15:58	0°る 29°る39'05		evening rise	14992 Nov 10 17:34	13°♂38'46 0°る	
desc. node	14991 Dec 13 21:46	29° ℃ 39'05		desc. node	14992 Nov 18 20:49	0°5 16° る 33'11	
evening max el	14991 Dec 14 03:38 14991 Dec 22 09:57	0 ≈ 9°≈50'57	24°25'26	evening max el	14992 Nov 29 18:50 14992 Dec 02 19:40	10 3 3311 19° る 48'48	22042125
retrograde	14991 Dec 22 09.37 14992 Jan 05 01:55	9 ≈30 37 16°≈39'16	24 23 20	retrograde	14992 Dec 02 19:40 14992 Dec 15 19:24	19 04848 26°る15'06	22 42 23
evening set	14992 Jan 10 06:23	15°≈40'20		evening set	14992 Dec 19 16:53	25° る 41'59	
min. Earth dist.	14992 Jan 15 21:40	12° ≈ 48'58	0.55835 AU	min. Earth dist.	14992 Dec 27 04:11	22° る 17'39	0.54713 AU
inferior conj	14992 Jan 18 03:23	11°≈26'13		inferior conj	14992 Dec 28 02:32	21°る46'01	
minimum elong	14992 Jan 18 11:15	11° ≈ 14'04	5°24'50	minimum elong	14992 Dec 28 03:10	21° る 45'07	
morning rise	14992 Jan 26 18:05	7° ≈ 25'02		morning rise	14993 Jan 05 14:46	17° る 57'59	
direct	14992 Jan 29 02:32	7° ≈ 10'21		direct	14993 Jan 08 17:08	17° る 35'59	
asc. node	14992 Feb 07 08:14	11° ≈ 15'40		morning max el	14993 Jan 20 09:13	23° る 12'18	21°09'22
morning max el	14992 Feb 08 04:48	12° ≈ 03'29	19°45'19	asc. node	14993 Jan 24 05:35	27° る 27'47	
	14992 Feb 20 09:23	0° ∀			14993 Jan 26 03:35	0° ≈ ≈	
morning set	14992 Feb 25 17:36	10°) 29′06		morning set	14993 Feb 09 02:24	25° ≈ 10'48	
					14993 Feb 11 09:38	0° ∀	
superior conj	14992 Mar 04 15:22	26° ∺ 25'40	0°50'56				
minimum elong	14992 Mar 04 17:54	26° ¥ 38′07	0°50'42	superior conj	14993 Feb 16 10:03	10° 米 29'42	
	14992 Mar 06 11:06	0° Υ		minimum elong	14993 Feb 16 12:35		1°12'29
desc. node	14992 Mar 10 23:00	8° Υ 32'13		max. Earth dist.	14993 Feb 21 05:44		1.35325 AU
max. Earth dist.	14992 Mar 10 20:07	8°Υ18'48	1.37443 AU	evening rise	14993 Feb 25 05:52	27° ¥ 55′27	
evening rise	14992 Mar 14 13:00	15° ℃ 02'22		desc. node	14993 Feb 25 19:35	28° ¥ 59′23 0° Ƴ	
	14992 Mar 23 09:29	0°B 0°B			14993 Feb 26 08:40 14993 Mar 16 16:44	0° ∀	
evening max el	14992 Apr 13 16:46 14992 Apr 19 00:03		25°20'15	evening max el	14993 Mai 16 16.44 14993 Apr 01 13:41	19° 8 34'18	26°26'11
retrograde	14992 May 01 04:16	12° Ⅱ 49'03	23 20 13	retrograde	14993 Apr 14 13:00	26° 8 56'47	20 20 11
asc. node	14992 May 05 04:54	11° II 41'22		evening set	14993 Apr 20 20:26	24° 8 24'40	
evening set	14992 May 07 01:24	10° Ⅲ 21'57		asc. node	14993 Apr 22 02:13	23° 8 18'25	
min. Earth dist.	14992 May 11 09:26	5° Ⅱ 34'43	0.67984 AU	min. Earth dist.	14993 Apr 24 22:17	20° 8 12'39	0.66767 AU
inferior conj	14992 May 12 17:20	3° Ⅱ 51′18	2°06'56	inferior conj	14993 Apr 26 19:01	17° 8 57'00	1°24'25
minimum elong	14992 May 12 15:09	3° Ⅲ 58′21	2°05'30	minimum elong	14993 Apr 26 17:09	18° 8 02'41	1°23'08
	14992 May 15 21:50	30°R₩		morning rise	14993 May 02 14:51	12° 8 15'17	
morning rise	14992 May 18 05:19	27° 8 58'23		direct	14993 May 05 17:36	11° 8 20'49	
direct	14992 May 21 18:40	26° 8 45'45		morning max el	14993 May 12 04:53	14° 8 46'29	18°25'56
	14992 May 28 03:37	0°П			14993 May 23 13:42	Π °0	
morning max el	14992 May 28 17:38	0° Ⅱ 33'15	19°11'19	desc. node	14993 May 24 21:20	2° Ⅱ 02'09	
desc. node	14992 Jun 07 00:25	12° Ⅱ 14'42	0.7	morning set	14993 Jun 01 16:20	14° Ⅱ 17'26	
greatest brilliancy	14992 Jun 10 14:11 14992 Jun 18 20:12	17° Ⅱ 28'46 0° ©	-0.7m		14993 Jun 11 16:00	0ං ව	
morning set	14992 Jun 21 17:59	4°\$28'20		superior conj	14993 Jun 17 10:45	9° © 01'44	2000122
max. Earth dist.	14992 Jul 04 23:51	25°S02'21	1.45464 AU	minimum elong	14993 Jun 17 10:43	8°9341'56	
max. Earth dist.	14772 Jul 04 25.51	23 30221	1.43404710	max. Earth dist.	14993 Jun 17 19:32		1.45934 AU
superior conj	14992 Jul 08 01:38	29° 9 52'42	-2°12'48	man. Barur dist.	14993 Jun 30 20:44	0° Ω	1
minimum elong	14992 Jul 08 04:17	0° Ω 03'12		evening rise	14993 Jul 03 07:34	3° Ω 51′05	
Č	14992 Jul 08 03:28	$0^{\circ}\Omega$		greatest brilliancy	14993 Jul 12 10:46	18° Ω 09'19	-0.8m
evening rise	14992 Jul 22 17:18	23° Ω 28′50		asc. node	14993 Jul 19 01:09	27° Ω 59'28	
	14992 Jul 26 16:42	0° ™			14993 Jul 20 12:12	0° m	
asc. node	14992 Aug 01 04:26	8° m 52'00		evening max el	14993 Jul 25 08:16	5° Mp 44'52	18°49'46
evening max el	14992 Aug 10 20:33	21° m 59'46	18°17'34	retrograde	14993 Aug 01 00:20	9° m 23'21	
retrograde	14992 Aug 17 05:28	25° m/22'55		evening set	14993 Aug 04 08:39	8° Mp 18'55	
evening set	14992 Aug 20 04:40	24° m/34'40		inferior conj	14993 Aug 09 22:10	2° m/36'17	2°43'16
inferior conj	14992 Aug 26 02:43	19° Mp 06'35	2°08'37	minimum elong	14993 Aug 10 00:07	2° m/30'07	2°42'21
minimum elong	14992 Aug 26 05:06	18° M 59'39	2°07'42	min. Earth dist.	14993 Aug 11 16:35	0° m/23'08	0.66220 AU
min. Earth dist.	14992 Aug 28 11:10	16° Th 23'51	0.64413 AU	morning rig-	14993 Aug 12 00:08	30°RΩ 26°Ω10'48	
morning rise desc. node	14992 Sep 01 04:01 14992 Sep 02 21:53	12° Mp 46'39 11° Mp 34'12		morning rise desc. node	14993 Aug 15 14:41 14993 Aug 20 19:22	26° Ω 10'48 23° Ω 36'42	
direct	14992 Sep 02 21.33 14992 Sep 07 17:26	11 11/34 12 10° Mp 11'18		direct	14993 Aug 20 19.22 14993 Aug 21 20:55	23° Ω 32'25	
anoci	11772 Sep 07 17.20	10 HV 11 10		unoci	11775 Aug 21 20.33	U U LJ L LJ	

	14993 Sep 02 14:32	0° m/y		morning rise	14994 Jul 30 10:42	9° Ω 59'08	
morning max el	14993 Sep 02 14.32 14993 Sep 03 21:34	1° m)16'07	26°31'05	direct	14994 Jul 30 10:42 14994 Aug 05 06:58	$7^{\circ}\Omega 26'05$	
morning max ci	14993 Sep 05 21:34 14993 Sep 25 11:08	0∘ ⊽	20 31 03	desc. node	14994 Aug 07 16:47	$7^{\circ}\Omega 48'24$	
morning set	14993 Oct 09 18:14	ა _ 24° ჲ 40'51		morning max el	14994 Aug 17 08:32	14° Ω 39'53	25°13'29
morning sec	14993 Oct 12 12:52	0°M		morning max er	14994 Aug 29 21:57	0°m	23 13 27
max. Earth dist.	14993 Oct 13 16:55	2°M17'32	1.34435 AU		14994 Sep 18 07:12	0∘ ⊽	
asc. node	14993 Oct 15 03:01	5°ML07'07	1.555 110	morning set	14994 Sep 22 05:33	6° £ 53'14	
use. Houe	1.555 000 10 05.01	2 110-07-07		max. Earth dist.	14994 Sep 25 18:53	13° ≏ 22'20	1.36523 AU
superior conj	14993 Oct 18 16:49	12°M24'53	0°32'40	asc. node	14994 Oct 01 23:38	25° Ω 16'18	
minimum elong	14993 Oct 18 15:08	12°M16'11	0°32'56				
evening rise	14993 Oct 26 02:58	28°M01'38		superior conj	14994 Oct 02 06:15	25° Ω 49'03	0°02'33
C	14993 Oct 27 01:38	0° ∡ ¹		minimum elong	14994 Oct 02 06:04	25° ≏ 48'09	0°02'51
evening max el	14993 Nov 14 11:58	29° ₹ '59'45	21°06'02	behind sun begin	14994 Oct 01 23:44	25° ≙ 16'50	
C	14993 Nov 14 12:04	ರ°0		behind sun end	14994 Oct 02 12:24	26° ≏ 19'34	
desc. node	14993 Nov 16 15:59	1° る 56'50			14994 Oct 04 08:29	0° M .	
retrograde	14993 Nov 26 05:58	5° る 49'33		evening rise	14994 Oct 10 08:42	12°ML13'28	
evening set	14993 Nov 28 21:32	5° る 33'02			14994 Oct 19 17:11	0°∡7	
inferior conj	14993 Dec 07 17:33	1° る 40'49	-5°34'10	evening max el	14994 Oct 27 18:00	10° ≯ 53'38	19°47'50
minimum elong	14993 Dec 07 09:39	1° る 52'00	5°31'52	desc. node	14994 Nov 03 13:13	15° ∡ ¹24'40	
min. Earth dist.	14993 Dec 08 09:48	1° る 17'47	0.54461 AU	retrograde	14994 Nov 06 20:50	15° ∡ 756'30	
	14993 Dec 10 18:14	30°₽ ⋌ 7		evening set	14994 Nov 08 20:22	15° ∡ ¹45'47	
morning rise	14993 Dec 15 22:06	27° ∡ ¹49'19		inferior conj	14994 Nov 17 15:04	11° ∡ ⁴44'41	-4°14'26
direct	14993 Dec 20 00:21	27° ∡ 13′16		minimum elong	14994 Nov 17 05:13	11° ∡ ¹59'57	4°10'28
	14993 Dec 28 14:18	8°0		min. Earth dist.	14994 Nov 19 17:41	10° ∡ ¹26'27	0.55153 AU
morning max el	14994 Jan 02 00:22	3°₹31′22	22°52'21	morning rise	14994 Nov 25 12:31	7° ∡ ³30′17	
asc. node	14994 Jan 11 02:52	14° る 48'27		direct	14994 Nov 30 14:06	6° ∡ ³33'38	
	14994 Jan 19 18:04	0° ≈		morning max el	14994 Dec 14 09:22	13° ∡ °26′08	24°41'48
morning set	14994 Jan 24 13:42	9° ≈ 55'26			14994 Dec 27 04:27	ರ°0	
				asc. node	14994 Dec 29 00:03	3° ප 01'32	
superior conj	14994 Jan 31 12:31	24° ≈ 53'07	1°27'13	morning set	14995 Jan 09 01:37	24° る 37'50	
minimum elong	14994 Jan 31 14:25	25° ≈ 03'18	1°27'42		14995 Jan 11 12:53	0°≈	
	14994 Feb 02 22:23	0°)					
max. Earth dist.	14994 Feb 03 22:00	2° ∺ 03′18	1.33546 AU	superior conj	14995 Jan 15 20:07	9° ≈ 28′20	1°35'39
evening rise	14994 Feb 08 12:24	11° ∺ 21'29		minimum elong	14995 Jan 15 21:03	9° ≈ 33'28	1°36'26
desc. node	14994 Feb 12 16:10	19° 米 16′52		max. Earth dist.	14995 Jan 17 21:52	13° ≈ 59'58	1.32218 AU
	14994 Feb 18 17:45	0° Y		evening rise	14995 Jan 23 05:23	25° ≈ 12'39	
	14994 Mar 12 01:51	$0^{\circ}S$			14995 Jan 25 14:40	0° ∀	
evening max el	14994 Mar 15 03:09	3° 8 08'46	27°13'25	desc. node	14995 Jan 30 12:46	9° ¥ 19'39	
retrograde	14994 Mar 28 15:51	10° 8 39'15			14995 Feb 12 05:24	0° Υ	
evening set	14994 Apr 04 07:18	8° 8 08'17		evening max el	14995 Feb 25 15:09	16° Y 17'56	27°34'42
min. Earth dist.	14994 Apr 08 04:26	4° 8 28'52	0.65142 AU	retrograde	14995 Mar 11 11:36	23° Y 46'29	
asc. node	14994 Apr 08 23:35	3° 8 36'21		evening set	14995 Mar 18 07:32	21° Y °24'02	
inferior conj	14994 Apr 10 13:31	_	0°29'42	min. Earth dist.	14995 Mar 22 02:03	18° Y 12'58	0.63191 AU
minimum elong	14994 Apr 10 12:43	1° 8 52'27	0°28'57	inferior conj	14995 Mar 24 21:57	15° Υ 23'23	
	14994 Apr 12 06:05	30°₹ Υ		minimum elong	14995 Mar 24 23:11	15° Y 20'18	0°37'31
morning rise	14994 Apr 16 19:55	26° Y 21′27		asc. node	14995 Mar 26 21:01	13° Y 29'06	
direct	14994 Apr 19 13:07	25° Y 42'21	17057120	morning rise	14995 Mar 31 17:26	10° Υ 09'58	
morning max el	14994 Apr 25 20:46	28° Y 58'54	1/3/28	direct	14995 Apr 03 02:29	9° Υ 42'48	17946110
JJ.	14994 Apr 26 20:35 14994 May 11 18:09	0°8		morning max el	14995 Apr 09 14:27	13° Y 01'34 0° と	17°46'19
desc. node	14994 May 11 18:09 14994 May 13 18:12	22° 8 08'55 25° 8 26'32		morning sat	14995 Apr 21 08:34 14995 Apr 25 21:54	7° 8 49'09	
morning set	,	23 O 20 32 0° Ⅱ		morning set desc. node	1	12° 8 28'45	
	14994 May 16 12:48	υщ		desc. node	14995 Apr 28 14:51	12 02843	
superior conj	14994 May 28 00:09	18° Ⅲ 28'59	1046!51	superior conj	14995 May 08 07:54	28° 8 48'48	101200
minimum elong	14994 May 27 15:18	18 П 28 39 17° П 53'56		minimum elong	14995 May 08 07:54 14995 May 08 00:58	28° 8 20'18	
max. Earth dist.	14994 May 31 15:33		1.45650 AU	minimum ciong	14995 May 09 01:17	0°Ⅱ	1 11 32
max. Lattii dist.	14994 Jun 04 08:28	0°95	1.43030 AO	max. Earth dist.	14995 May 14 09:44		1.44658 AU
evening rise	14994 Jun 13 01:19	13°S26'12		evening rise	14995 May 23 12:07	22° ∏ 51'10	1.17030 AU
evening rise	14994 Jun 23 22:57	0°Ω		evening rise	14995 May 28 04:50	0°95	
greatest brilliancy	14994 Jun 26 22:17	4° Ω 23'58	-0.6m		14995 Jun 18 12:31	0°Ω	
asc. node	14994 Jul 05 21:56	16°Ω36'22	0.0111	evening max el	14995 Jun 21 16:18	3° Ω 27'47	20°41'28
evening max el	14994 Jul 08 15:14	19° Ω 35'42	19°38'22	asc. node	14995 Jun 22 18:49	4° Ω 31'20	20 1120
retrograde	14994 Jul 15 22:26	23°Ω41'38	1) 3022	retrograde	14995 Jun 29 21:23	8° Ω 11'13	
evening set	14994 Jul 19 16:28	$23^{\circ}\Omega^{41}$ 38 $22^{\circ}\Omega^{20}$ 01		evening set	14995 Jul 04 01:53	6° Ω 32'12	
inferior conj	14994 Jul 25 00:43	16° Ω 24'24	3°03'00	inferior conj	14995 Jul 09 07:47	0° Ω 24'53	3°10'03
minimum elong	14994 Jul 25 01:50	16° Ω 20'41	3°02'07	minimum elong	14995 Jul 09 07:54	0° Ω 24'27	3°09'08
min. Earth dist.	14994 Jul 26 04:59	14°Ω50'12	0.67620 AU	viong	14995 Jul 09 14:59	30°RS	2 27 00
uibt.	20 01.07	000012			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	

min. Earth dist.	14995 Jul 09 22:16	29°534'53	0.68561 AU	min. Earth dist.	14996 Jun 22 18:20	14°9529'43	0.69019 AU
morning rise	14995 Jul 14 13:37	24°503'38		morning rise	14996 Jun 27 21:24	8°518'49	
direct	14995 Jul 19 22:14	21°542'53		direct	14996 Jul 02 17:33	6°5015'14	
desc. node	14995 Jul 25 14:09	23°545'50	22245144	desc. node	14996 Jul 11 11:28	11°504'01	22016156
morning max el	14995 Jul 30 19:04	28°9512'22	23°45'41	morning max el	14996 Jul 12 07:32	11°953'06	22°16'56
	14995 Aug 01 12:04	$\Omega^{\circ}\Omega$			14996 Jul 26 17:14	0° U	
	14995 Aug 23 14:16	0° m/y		morning set	14996 Aug 14 12:43	28° Ω 30'44	
morning set	14995 Sep 03 20:57	18° m 12'38	1 20070 411	P. d. F.	14996 Aug 15 10:46	0° m/y	1 41000 411
max. Earth dist.	14995 Sep 07 16:58	24° m/49'45	1.38879 AU	max. Earth dist.	14996 Aug 19 18:06	/~IID06,16	1.41232 AU
	14995 Sep 10 14:39	0∘ ⊽			14006 4 27 12 55	200 m. 2711 2	1007150
	14005 C 15 06.42	00 0 20120	0021147	superior conj	14996 Aug 27 13:55	20° Mp 37'12	
superior conj	14995 Sep 15 06:42	8° Ω 36'26		minimum elong	14996 Aug 27 19:14	21°№00'54 0° <u>മ</u>	1°0/18
minimum elong	14995 Sep 15 08:59	8° £ 47'10	0-31-19	1	14996 Sep 01 18:12		
asc. node	14995 Sep 18 20:13	15° £ 24'08		asc. node	14996 Sep 04 16:47	5° Ω 27'02	
evening rise	14995 Sep 24 08:07	26° Ω 07'17 0° M		evening rise	14996 Sep 06 21:53	9° മ 34'48 0° I L	
evening max el	14995 Sep 26 07:56 14995 Oct 10 13:54	22°M37'13	18°51'35	evening max el	14996 Sep 18 16:47 14996 Sep 22 20:11	5°M04'20	18°16'58
retrograde	14995 Oct 10 13:34 14995 Oct 19 03:27	26°M56'01	16 31 33	retrograde	14996 Sep 22 20.11 14996 Sep 30 05:40	8°M50'15	16 10 36
evening set	14995 Oct 21 00:47	26°M44'14		evening set	14996 Sep 30 03.40 14996 Oct 02 07:48	8°M32'53	
desc. node	14995 Oct 21 10:31	26°M38'44		desc. node	14996 Oct 02 07:48 14996 Oct 07 07:57	5°M51'33	
inferior conj	14995 Oct 29 06:27	20 IIL38 44 22°IL24'38	2°20'31	inferior conj	14996 Oct 07 07:37 14996 Oct 09 19:42	3°M51'51	0°47'34
minimum elong	14995 Oct 29 00:27	22°M35'43		minimum elong	14996 Oct 09 17:57	3°M55'32	
min. Earth dist.	14995 Nov 01 06:16	20°M16'57	0.56655 AU	min. Earth dist.	14996 Oct 13 02:15	1°M08'38	0.58697 AU
morning rise	14995 Nov 05 20:42	17°M35'06	0.30033 AU	iiiii. Eatui dist.	14996 Oct 14 14:15	1 11000 30 30°RΩ	0.38097 AU
direct	14995 Nov 11 17:02	16°ML13'24		morning rise	14996 Oct 17 00:39	28° £ 25'50	
morning max el	14995 Nov 25 21:13	23°M32'17	26°19'13	direct	14996 Oct 23 09:37	26° ⊆ 23'30 26° ⊆ 37'31	
morning max er	14995 Nov 23 21:13 14995 Dec 01 17:27	23 11632 17 0° x 7	20 1913	direct	14996 Nov 01 14:08	20 = 37 31 0° ™	
asc. node	14995 Dec 15 21:09	21° х 53'44		morning max el	14996 Nov 06 16:53	4°M17'23	27027122
asc. Houc	14995 Dec 20 02:09	0°중		morning max ci	14996 Nov 25 13:55	4 1101 / 23 0° x ⁷	21 21 32
morning set	14995 Dec 24 12:25	9°る13'20		asc. node	14996 Dec 01 18:09	0 ^ 11° √ 14'11	
morning set	14993 DCC 24 12.23	9 01320		morning set	14996 Dec 07 20:17	23° x ⁷ 36'33	
superior conj	14995 Dec 31 06:41	24° පි 09'01	1°37'56	morning set	14996 Dec 10 19:08	23 メ 30 33	
minimum elong	14995 Dec 31 06:33	24°る09'16			14770 Dec 10 17.00	٥ ن	
max. Earth dist.	14996 Jan 01 03:35	24°る05'26		superior conj	14996 Dec 14 18:13	8° る 48'42	1°34'14
max. Latur dist.	14996 Jan 02 21:57	0°≈	1.51500 AC	minimum elong	14996 Dec 14 17:05		1°35'10
evening rise	14996 Jan 07 06:06	9°≈22'02		max. Earth dist.	14996 Dec 14 11:42	8°る12'13	1.31076 AU
desc. node	14996 Jan 17 09:27	29°≈01'37		evening rise	14996 Dec 21 12:09	23° ප් 42'53	1.51070710
dese. Hode	14996 Jan 17 22:45	0° ∀		evening rise	14996 Dec 24 11:58	0°≈	
evening max el	14996 Feb 07 23:24	28°) (49'24	27°24'01	desc. node	14997 Jan 03 06:13	18° ≈ 13'45	
evening max er	14996 Feb 09 06:08	0°Υ	27 2101	desc. node	14997 Jan 11 00:03	0° ∀	
retrograde	14996 Feb 21 22:58	6° Ƴ 09'36		evening max el	14997 Jan 20 00:53	10°) (30′30	26°38'20
evening set	14996 Feb 28 18:20	4° Υ 03'04		retrograde	14997 Feb 03 00:22	17°) 40'11	20 30 20
min. Earth dist.	14996 Mar 03 13:37	1° Υ 13'53	0.61029 AU	evening set	14997 Feb 09 12:11	15° ¥ 56'20	
mm. Earth dist.	14996 Mar 04 23:40	30° ₹	0.0102) 110	min. Earth dist.	14997 Feb 13 14:33	13°) 18'44	0.58818 AU
inferior conj	14996 Mar 06 16:59	28° H 28'06	-1°57'22	inferior conj	14997 Feb 16 18:47	10° ¥ 53′08	
minimum elong	14996 Mar 06 21:13	28°) 18'43		minimum elong	14997 Feb 17 02:23	10°) €38'34	
asc. node	14996 Mar 12 18:27	24°\ 04'04	1 33 32	morning rise	14997 Feb 24 19:51	6° ¥ 19'14	3 2131
morning rise	14996 Mar 14 03:18	23°) 32'58		direct	14997 Feb 26 19:44	6°) €05'09	
direct	14996 Mar 16 06:11	23°) 14′06		asc. node	14997 Feb 27 15:55	6°) €07'44	
morning max el	14996 Mar 23 06:47	26°) (45'51	17°53'15	morning max el	14997 Mar 06 18:06	10°) €00'31	18°19'40
	14996 Mar 26 02:56	0°Υ			14997 Mar 19 19:06	0° Υ	
morning set	14996 Apr 07 21:41	21° Υ 07'57		morning set	14997 Mar 22 11:46	5° Υ '04'52	
8	14996 Apr 12 19:39	0°8		8			
desc. node	14996 Apr 14 11:30	2° 8 57'25		superior conj	14997 Mar 31 21:00	22° Y ′40′02	0°03'48
	_F 11.50			minimum elong	14997 Mar 31 21:16	22° Υ 41'14	0°03'28
superior conj	14996 Apr 18 15:26	10° 8 14'26	-0°33'07	behind sun begin	14997 Mar 31 14:04	22° Y ′08'24	
minimum elong	14996 Apr 18 12:26	10° 8 01'33		behind sun end	14997 Apr 01 04:28	23° Y 13'59	
max. Earth dist.	14996 Apr 26 00:33	22° 8 38'40		desc. node	14997 Apr 01 08:06	23° Y '30'25	
	14996 Apr 30 13:59	0°Ⅱ			14997 Apr 04 23:21	0°8	
evening rise	14996 May 02 08:13	2° I I46'53		max. Earth dist.	14997 Apr 08 10:39	6° 8 00'29	1.41009 AU
5	14996 May 20 14:57	0°95		evening rise	14997 Apr 12 23:14	13° 8 34'07	
evening max el	14996 Jun 03 11:48	17° © 20'01	21°55'41	<i>3</i>	14997 Apr 23 10:21	0°П	
asc. node	14996 Jun 08 15:48	21°530'47	-		14997 May 15 22:54	0. 0	
retrograde	14996 Jun 12 19:30	22°5947'01		evening max el	14997 May 17 03:14	1° © 12'38	23°16'12
evening set	14996 Jun 17 11:07	20°951'20		asc. node	14997 May 26 12:54	7° © 18'04	- -
inferior conj	14996 Jun 22 17:10	14°533'48	3°05'54	retrograde	14997 May 27 15:25	7° 5 23'27	
minimum elong	14996 Jun 22 16:21	14°536'38		evening set	14997 Jun 01 18:32	5°9512'59	
3				Č			

	14997 Jun 06 05:53	30°R Ⅱ		inferior conj	14998 May 22 11:10	13° Ⅱ 01'44	2°26'15
min. Earth dist.	14997 Jun 06 15:09	29° Ⅱ 28'11	0.68985 AU	minimum elong	14998 May 22 09:06	13° Ⅱ 01'44	2°24'51
inferior conj	14997 Jun 07 02:57	28° II 47'26	2°51'17	morning rise	14998 May 27 19:54	7° I 03'06	2 2431
minimum elong	14997 Jun 07 01:21	28° II 52'55	2°50'03	direct	14998 May 31 15:38	5° Ⅱ 39'25	
morning rise	14997 Jun 12 08:07	20° Ⅲ 40′05	2 30 03	morning max el	14998 Jun 08 01:08	9° Ⅱ 45'54	19°44'46
direct	14997 Jun 16 15:47	20°II56'13		desc. node	14998 Jun 15 05:46	18° Ⅲ 23'32	190
morning max el	14997 Jun 25 00:53	25° I I44'10	20°54'51	greatest brilliancy	14998 Jun 21 01:24	26° I 37'00	-0.6m
desc. node	14997 Jun 28 08:40	29° I I21'59	20 0 . 0 1	greatest officially	14998 Jun 23 08:35	0°95	0.0111
***************************************	14997 Jun 28 21:28	0ಂಣ		morning set	14998 Jul 04 08:26	16°937'55	
	14997 Jul 20 03:01	$0^{\circ}\Omega$			14998 Jul 12 23:18	0°N	
morning set	14997 Jul 25 05:15	7° Ω 50'14		max. Earth dist.	14998 Jul 15 14:24	4°Ω08'25	1.44853 AU
max. Earth dist.	14997 Aug 02 01:18	20° Ω 15'57	1.43295 AU			••••	
	14997 Aug 07 23:16	0° m)		superior conj	14998 Jul 20 09:34	11° Ω 47'26	-2°05'46
				minimum elong	14998 Jul 20 15:34	12° Ω 11'37	
superior conj	14997 Aug 08 23:35	1° Mp 42'05	-1°41'19		14998 Jul 31 11:24	0° m)	
minimum elong	14997 Aug 09 07:06	2° m 13'44		evening rise	14998 Aug 03 02:06	4° m) 23'47	
evening rise	14997 Aug 20 21:39	22° m/25'01		asc. node	14998 Aug 09 10:00	15° m) 01'57	
asc. node	14997 Aug 22 13:23	25° m) 21'22			14998 Aug 19 13:29	0∘ ⊽	
	14997 Aug 25 04:31	0∘ <u>⊽</u>		evening max el	14998 Aug 20 23:17	1° £ 30'14	18°06'56
evening max el	14997 Sep 06 08:37	18° ഫ 05'33	18°02'31	retrograde	14998 Aug 27 08:13	4° ≙ 50'45	
retrograde	14997 Sep 13 00:49	21° ≏ 32'00		evening set	14998 Aug 30 02:16	4° £ 11'10	
evening set	14997 Sep 15 10:24	21° Ω 05'13		8	14998 Sep 04 05:50	30°R, M)	
inferior conj	14997 Sep 22 05:11	16° Ω 04'15	0°37'00	inferior conj	14998 Sep 05 06:53	28° m 52'37	1°40'47
minimum elong	14997 Sep 22 06:18	16° ♀ 01'32	0°36'45	minimum elong	14998 Sep 05 09:10	28° m/ 46'22	1°39'57
desc. node	14997 Sep 24 05:25	14° Ω 07'11		min. Earth dist.	14998 Sep 07 23:01	25° m 58'34	0.63220 AU
min. Earth dist.	14997 Sep 25 07:42	13° ഫ 05'17	0.60975 AU	desc. node	14998 Sep 11 02:55	23° m) 00'34	
morning rise	14997 Sep 28 23:15	10° ჲ 09'15		morning rise	14998 Sep 11 14:00	22° m/39'04	
direct	14997 Oct 05 14:36	7° Ω 56'44		direct	14998 Sep 18 05:43	20° m/09'09	
morning max el	14997 Oct 19 20:17	15° Ω 51'37	27°57'39	morning max el	14998 Oct 02 04:46	28° mp 09'40	27°49'07
S	14997 Oct 31 10:45	0°M₊		Č	14998 Oct 03 23:17	0° م	
	14997 Nov 18 03:54	0° ∡ ¹			14998 Oct 25 06:06	0° M	
asc. node	14997 Nov 18 15:04	0° х 55'07		asc. node	14998 Nov 05 11:52	20°M49'51	
morning set	14997 Nov 21 23:18	7° ∡ ¹42'59		morning set	14998 Nov 05 19:11	21°M26'40	
C			1 21200 411	. 8			
max. Earth dist.	1499 / Nov 2 / 18:19	20°×'11'05	1.31308 AU		14998 Nov 09 22:22	0° ∡ ¹	
max. Earth dist.	14997 Nov 27 18:19	20° ⊀ 11'05	1.31308 AU	max. Earth dist.	14998 Nov 09 22:22 14998 Nov 10 19:33	0° x' 1° x 752'44	1.32093 AU
max. Earth dist.	14997 Nov 27 18:19 14997 Nov 29 04:54	20° × 11'05 23° × 22'40	1.31308 AU 1°24'38	max. Earth dist.			1.32093 AU
superior conj							1.32093 AU 1°09'06
	14997 Nov 29 04:54	23° 尽 22'40 23° 尽 12'01	1°24'38	superior conj	14998 Nov 10 19:33	1° ₹ 752'44	
superior conj minimum elong	14997 Nov 29 04:54 14997 Nov 29 02:59	23° × ⁷ 22'40	1°24'38	superior conj minimum elong	14998 Nov 10 19:33 14998 Nov 13 12:45	1° х 52'44 7° х 45'08	1°09'06
superior conj	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18	23°メ22'40 23°メ12'01 0°る	1°24'38	superior conj	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27	1° \$\black\$\displays{1}52'44 7° \$\black\$\displays{4}5'08 7° \$\black\$\displays{3}2'33 22° \$\black\$\displays{4}0'09	1°09'06
superior conj minimum elong	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35	23°ダ22'40 23°ダ12'01 0°る 8°る10'35	1°24'38	superior conj minimum elong	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33	1°09'06
superior conj minimum elong evening rise desc. node	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57	1°24'38 1°25'23	superior conj minimum elong evening rise	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹	1°09'06
superior conj minimum elong evening rise desc. node evening max el	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≋	1°24'38 1°25'23	superior conj minimum elong evening rise desc. node	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00	1° 🖈 52'44 7° 🖈 45'08 7° 🖈 32'33 22° 🖈 40'09 0° る 24° る20'02	1°09'06 1°09'37
superior conj minimum elong evening rise desc. node evening max el retrograde	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49	23° ₹22'40 23° ₹12'01 0° ₹5 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17	1°24'38 1°25'23	superior conj minimum elong evening rise desc. node evening max el	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 24° ₹ 20'02 0° ≈	1°09'06 1°09'37
superior conj minimum elong evening rise desc. node evening max el	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 15 14:26	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17	1°24'38 1°25'23	superior conj minimum elong evening rise desc. node evening max el retrograde	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 24° ₹ 20'02 0° ≈ 1° ≈ 26'15	1°09'06 1°09'37
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 15 14:26 14998 Jan 21 09:13 14998 Jan 26 06:12	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21	1°24'38 1°25'23 25°20'33 0.56795 AU	superior conj minimum elong evening rise desc. node evening max el retrograde evening set	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03	1° ₹52'44 7° ₹45'08 7° ₹32'33 22° ₹40'09 0° ₹ 24° ₹20'02 0° ≈ 1° ≈26'15 8° ≈07'04 7° ≈20'05	1°09'06 1°09'37
superior conj minimum elong evening rise desc. node evening max el retrograde evening set	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 15 14:26 14998 Jan 21 09:13	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19	superior conj minimum elong evening rise desc. node evening max el retrograde	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 24° ₹ 20'02 0° ≈ 1° ≈ 26'15 8° ≈ 07'04	1°09'06 1°09'37 23°41'54 0.55259 AU
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 15 14:26 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23	1° ₹52'44 7° ₹45'08 7° ₹32'33 22° ₹40'09 0° ₹ 24° ₹20'02 0° ≈ 1° ≈26'15 8° ≈07'04 7° ≈20'05 4° ≈16'46	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 15 14:26 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 09:24	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 20'02 0° ≈ 1° ≈ 26'15 8° ≈ 07'04 7° ≈ 20'05 4° ≈ 16'46 3° ≈ 15'10	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 15 14:26 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 24° ₹ 20'02 0° ≈ 1° ≈ 26'15 8° ≈ 07'04 7° ≈ 20'05 4° ≈ 16'46 3° ≈ 15'10 3° ≈ 07'03	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59	1° ₹52'44 7° ₹45'08 7° ₹32'33 22° ₹40'09 0° ₹ 24° ₹20'02 0° ≈ 1° ≈26'15 8° ≈07'04 7° ≈20'05 4° ≈16'46 3° ≈15'10 3° ≈07'03 30° ₹₹	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 17 23:48	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 20'02 0° ≈ 1° ≈ 26'15 8° ≈ 07'04 7° ≈ 20'05 4° ≈ 16'46 3° ≈ 15'10 3° ≈ 07'03 30° ₹ ₹ 29° ₹ 20'45	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27	1° ₹52'44 7° ₹45'08 7° ₹32'33 22° ₹40'09 0° ₹ 24° ₹20'02 0° ≈ 1° ≈26'15 8° ≈07'04 7° ≈20'05 4° ≈16'46 3° ≈15'10 3° ≈07'03 30° ₹₹ 29° ₹20'45 29° ₹320'45	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27 14999 Jan 20 14:27	1° ₹52'44 7° ₹45'08 7° ₹32'33 22° ₹40'09 0° ₹ 24° ₹20'02 0° ≈ 1° ≈26'15 8° ≈07'04 7° ≈20'05 4° ≈16'46 3° ≈15'10 3° ≈07'03 30° ₨₹ 29° ₹20'45 29° ₹30'53 0° ≈	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Feb 06 12:15 14998 Feb 07 12:15 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 06 11:40	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ¥26'41	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27 14999 Jan 25 04:59 14999 Jan 31 09:20	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\simes 10'26'15 8° \$\times 07'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 30° \$\times 20'05 29° \$\times 20'45 29° \$\times 20'45 29° \$\times 20'45 4° \$\times 15'47	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Feb 06 12:15 14998 Feb 07 12:15 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 06 11:40	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ¥26'41	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17	superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27 14999 Jan 25 04:59 14999 Jan 31 09:20 14999 Feb 01 10:44	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\times 10'26'15 8° \$\times 07'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 30° \$\times 20'05'30'8\$\times 29° \$\times 20'45 20° \$\times 20'45 20° \$\times 20'45 20° \$\t	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 06 11:40 14998 Mar 11 19:37	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ¥ 19° ¥26'41 0° Υ	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\times 20'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 20'45	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 06 11:40 14998 Mar 11 19:37	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\times 20'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 20'45	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 22 00:14 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 14 19:37 14998 Mar 14 20:22 14998 Mar 14 20:22	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀ 5° ♀53'29 6° ♀03'25	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 09:07 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 18 18:00	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 26'15 8° \$\infty 07'04 7° \$\infty 20'05 4° \$\infty 16'46 3° \$\infty 15'10 3° \$\infty 07'03 30° \$\times 29° \$\times 20'45 30° \$\times 4' \$\times 15'47 5° \$\infty 19'56 0° \$\times 4' \$\times 10'39 4° \$\times 15'47 30'45 4° \$\times 10'39	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00
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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 22 00:14 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 14 22:26 14998 Mar 19 04:39	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ₹ 5° ₹53'29 6° ₹03'25 14° ₹04'09	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 18 18:00	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\times 20'05 4° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 29° \$\times 20'35 0° \$\times 4' \$\times 15'47 5° \$\times 19'56 0° \$\times 4' \$\times 10'3'39 19° \$\times 42'26	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 23 18:10 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 19 04:39 14998 Mar 19 04:39	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ₹ 5° ₹53'29 6° ₹03'25 14° ₹04'09 18° ₹38'30	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 18 18:00	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\times 10'26'15 8° \$\times 07'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 29° \$\times 20'35 0° \$\times 4'\times 15'47 5° \$\times 19'56 0° \$\times 4'\times 10'39 19° \$\times 42'26 19° \$\times 55'41	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 16 11:40 14998 Mar 11 19:37 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 19 04:39 14998 Mar 21 17:00 14998 Mar 21 17:00 14998 Mar 25 11:30	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀ 5° ♀53'29 6° ♀03'25 14° ♀04'09 18° ♀38'30 25° ♀16'21	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14999 Jan 01 07:03 14999 Jan 01 07:03 14999 Jan 09 09:07 14999 Jan 09 09:07 14999 Jan 15 17:59 14999 Jan 17 23:48 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 16 18:03 14999 Feb 26 09:06 14999 Feb 26 11:44 14999 Mar 03 14:46	1° ₹ 52'44 7° ₹ 45'08 7° ₹ 32'33 22° ₹ 40'09 0° ₹ 20'02 0° ≈ 1° ≈ 26'15 8° ≈ 07'04 7° ≈ 20'05 4° ≈ 16'46 3° ≈ 15'10 3° ≈ 07'03 30° ₹ ₹ 29° ₹ 20'45 29° ₹ 303'53 0° ≈ 4° ≈ 15'47 5° ≈ 19'56 0° ₹ 4° ₹ 103'39 19° ₹ 42'26 19° ₹ 55'41 0° ♥	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:24 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 16 11:40 14998 Mar 11 19:37 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 19 04:39 14998 Mar 21 17:00 14998 Mar 25 11:30 14998 Mar 25 11:30 14998 Mar 28 06:17	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀ 5° ♀53'29 6° ♀03'25 14° ♀04'09 18° ♀38'30 25° ♀16'21 0° ₹	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28	superior conj 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.	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 16 18:03 14999 Feb 26 09:06 14999 Feb 26 11:44 14999 Mar 03 14:46 14999 Mar 03 14:46	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\times 10'826'15 8° \$\times 07'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 4° \$\times 15'47 5° \$\times 19'56 0° \$\times 40' \$\times 15'47 5° \$\times 19'56 19° \$\times 42'26 19° \$\times 45'54'1 0° \$\times 0'\$ 0° \$\times 43'54'	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 08 14:50 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 16 11:40 14998 Mar 11 19:37 14998 Mar 14 20:22 14998 Mar 14 20:22 14998 Mar 19 04:39 14998 Mar 21 17:00 14998 Mar 25 11:30 14998 Mar 28 06:17 14998 Mar 28 06:17	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀ 5° ♀53'29 6° ♀03'25 14° ♀04'09 18° ♀38'30 25° ♀16'21 0° ₹	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28 0°35'32 0°35'31 1.38742 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 morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 13 10:27 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 16 18:03 14999 Feb 26 09:06 14999 Feb 26 09:06 14999 Feb 26 11:44 14999 Mar 03 14:46 14999 Mar 03 23:58 14999 Mar 06 01:11	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\infty 10'44'64 3° \$\infty 15'10 3° \$\infty 10'3 30° \$\times 29° \$\times 20'45 4° \$\times 15'47 5° \$\infty 19'56 0° \$\times 40'3'39 19° \$\times 42'26 19° \$\times 45'5'41 0° \$\times 10'\$ 0° \$\times 43'54 4° \$\times 35'12	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19
superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 00:14 14998 Feb 06 12:15 14998 Feb 06 12:15 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 16 11:40 14998 Mar 11 19:37 14998 Mar 14 20:22 14998 Mar 14 22:26 14998 Mar 14 22:26 14998 Mar 19 04:39 14998 Mar 25 11:30 14998 Mar 28 06:17 14998 Apr 17 02:04 14998 Apr 17 02:04	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀ 5° ♀53'29 6° ♀03'25 14° ♀04'09 18° ♀38'30 25° ♀16'21 0° ₹ 0° Ⅱ 15° Ⅱ06'16	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28 0°35'32 0°35'31 1.38742 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 morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 25 04:59 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 16 18:03 14999 Feb 26 09:06 14999 Feb 26 09:06 14999 Feb 26 11:44 14999 Mar 03 14:46 14999 Mar 03 14:46 14999 Mar 06 01:11 14999 Mar 06 01:11	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 20'02 0° \$\iff 10' \$\iff 20'05 4° \$\iff 20'05 4° \$\iff 20'05 4° \$\iff 16'46 3° \$\iff 15'10 3° \$\iff 07'03 30° \$\times 20'05 29° \$\times 20'45 20° \$\times 20'45 20° \$\times 20'45 20° \$	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19 1°00'51 1°00'44 1.36507 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	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 16 11:40 14998 Mar 11 19:37 14998 Mar 14 20:22 14998 Mar 14 22:26 14998 Mar 14 22:26 14998 Mar 19 04:39 14998 Mar 25 11:30 14998 Mar 28 06:17 14998 Mar 28 06:17 14998 Mar 29 16:49 14998 May 11 07:53 14998 May 11 07:53 14998 May 13 10:06	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈17'34 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° ♀ 5° ♀53'29 6° ♀03'25 14° ♀04'09 18° ♀38'30 25° ♀16'21 0° ₹ 0° Ⅱ 15° Ⅱ06'16 21° Ⅱ54'10	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28 0°35'32 0°35'31 1.38742 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 morning max el asc. node morning set superior conj minimum elong max. Earth dist. desc. node evening rise	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 09 14:36 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 25 04:59 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 18 18:00 14999 Feb 26 09:06 14999 Feb 26 11:44 14999 Mar 03 14:46 14999 Mar 03 14:46 14999 Mar 06 01:11 14999 Mar 07 18:59 14999 Mar 07 18:59	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 26'15 8° \$\times 07'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 29° \$\times 20'45 29° \$\times 20'45 29° \$\times 03'53 0° \$\times 4° \$\times 15'47 5° \$\times 19'56 0° \$\times 4' \$\times 15'47 0° \$\times 19'54 19° \$\times 42'26 19° \$\times 55'41 0° \$\times 0° \$\times 4735'12 7° \$\times 47'08 0° \$\times 47708 0° \$\times 47708	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19 1°00'51 1°00'44 1.36507 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 asc. node	14997 Nov 29 04:54 14997 Nov 29 02:59 14997 Dec 02 04:18 14997 Dec 05 21:35 14997 Dec 17 00:03 14997 Dec 21 03:07 14998 Jan 01 17:49 14998 Jan 21 09:13 14998 Jan 26 06:12 14998 Jan 29 00:14 14998 Jan 29 09:24 14998 Feb 06 12:15 14998 Feb 06 12:15 14998 Feb 14 13:21 14998 Feb 17 20:17 14998 Feb 23 18:10 14998 Mar 16 11:40 14998 Mar 11 19:37 14998 Mar 14 20:22 14998 Mar 14 22:26 14998 Mar 14 22:26 14998 Mar 19 04:39 14998 Mar 25 11:30 14998 Mar 28 06:17 14998 Mar 28 06:17 14998 Apr 17 02:04 14998 May 11 07:53	23° ₹22'40 23° ₹12'01 0° ₹ 8° ₹10'35 0° ≈ 6° ≈44'57 21° ≈18'17 28° ≈16'17 27° ≈00'21 24° ≈19'06 22° ≈29'34 22° ≈14'21 18° ≈04'32 19° ≈55'36 22° ≈34'10 0° ₹ 19° ₹26'41 0° Ŷ 5° Ŷ53'29 6° Ŷ03'25 14° Ŷ04'09 18° Ŷ38'30 25° Ŷ16'21 0° ₹ 0° ¶ 15° ¶06'16 21° ¶54'10 21° ¶35'19	1°24'38 1°25'23 25°20'33 0.56795 AU -4°48'19 4°45'17 19°07'28 0°35'32 0°35'11 1.38742 AU 24°36'45	superior conj 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	14998 Nov 10 19:33 14998 Nov 13 12:45 14998 Nov 20 08:28 14998 Nov 23 19:54 14998 Dec 08 00:06 14998 Dec 12 18:00 14998 Dec 14 04:18 14998 Dec 27 15:23 14999 Jan 01 07:03 14999 Jan 07 15:23 14999 Jan 09 09:07 14999 Jan 15 17:59 14999 Jan 15 17:59 14999 Jan 20 14:27 14999 Jan 20 14:27 14999 Jan 31 09:20 14999 Feb 01 10:44 14999 Feb 16 18:03 14999 Feb 16 18:03 14999 Feb 26 09:06 14999 Feb 26 09:06 14999 Feb 26 11:44 14999 Mar 03 14:46 14999 Mar 03 23:58 14999 Mar 06 01:11 14999 Mar 07 18:59 14999 Mar 21 00:46 14999 Mar 21 00:46 14999 Mar 21 00:46	1° \$\times 52'44 7° \$\times 45'08 7° \$\times 32'33 22° \$\times 40'09 0° \$\times 26'15 8° \$\times 07'04 7° \$\times 20'05 4° \$\times 16'46 3° \$\times 15'10 3° \$\times 07'03 30° \$\times 29° \$\times 20'45 28° \$\times 55'30	1°09'06 1°09'37 23°41'54 0.55259 AU -5°47'29 5°46'00 20°18'19 1°00'51 1°00'44 1.36507 AU

asa nada	14999 Apr 30 07:21	4° Ⅱ 10'59		ovening set	15000 Apr 14 12:05	17° 8 38'46	
asc. node	1			evening set	15000 Apr 14 13:05		
evening set	14999 Apr 30 21:19	3° Ⅱ 43'09		asc. node	15000 Apr 17 04:42	15° 8 09'52	0.66100.177
	14999 May 04 10:37	30° ₹ 8		min. Earth dist.	15000 Apr 18 12:53	13° 8 40'47	0.66123 AU
min. Earth dist.	14999 May 05 02:35	29° 8 10'51	0.67513 AU	inferior conj	15000 Apr 20 14:50	11° 8 14'24	1°02'48
inferior conj	14999 May 06 15:54	27° 8 12'49	1°50'23	minimum elong	15000 Apr 20 13:19	11° 8 18'53	1°01'40
minimum elong	14999 May 06 13:47	27° 8 19'33	1°48'58	morning rise	15000 Apr 26 14:48	5° 8 37'39	
morning rise	14999 May 12 06:52	21° 8 24'14		direct	15000 Apr 29 13:25	4° 8 49'58	
direct	14999 May 15 15:32	20° 8 19'38		morning max el	15000 May 05 22:05	8° 8 10'12	18°11'42
morning max el	14999 May 22 08:40	23° 8 56'38	18°49'56	desc. node	15000 May 19 23:37	27° 8 53'55	
S	14999 May 27 12:25	0°II			15000 May 21 07:11	0°II	
desc. node	14999 Jun 02 02:45	7° Ⅱ 57'18		morning set	15000 May 25 04:12	6°∏12'59	
	14999 Jun 05 02:09	12° Ⅱ 26'17	-0.8m	morning set	13000 Way 23 04.12	0 11237	
greatest brilliancy			-0.6111		15000 I 00 00 00	00610150	2001150
morning set	14999 Jun 13 18:30	25° Ⅱ 50'19		superior conj	15000 Jun 09 09:00	0°518'59	
	14999 Jun 16 10:45	0 \circ 50		minimum elong	15000 Jun 09 01:31	29° ∏ 49'43	2°02'23
max. Earth dist.	14999 Jun 28 08:17	18° © 31'40	1.45755 AU		15000 Jun 09 04:08	0	
				max. Earth dist.	15000 Jun 11 04:41	3° © 09'40	1.45913 AU
superior conj	14999 Jun 30 00:17	21° © 08'03	-2°13'52	evening rise	15000 Jun 25 11:03	25° © 20'14	
minimum elong	14999 Jun 29 23:38	21° © 05'31	2°14'49		15000 Jun 28 11:12	$0^{\circ}\Omega$	
•	14999 Jul 05 15:36	$0^{\circ}\Omega$		greatest brilliancy	15000 Jul 06 18:48	12°Ω46'06	-0.7m
evening rise	14999 Jul 15 06:41	15° Ω 21'23		asc. node	15000 Jul 14 03:23	23° Ω 19'12	
e vennig 115e	14999 Jul 24 10:16	0°m)		evening max el	15000 Jul 18 22:53	28° Ω 58'50	19°08'32
aga mada	14999 Jul 27 06:40	4° Mg 23'37		evening max er	15000 Jul 20 00:58	0° m)	17 00 32
asc. node			10020112	. 1		-	
evening max el	14999 Aug 04 12:57	15° Mp 10'28	18°29'13	retrograde	15000 Jul 25 20:16	2° m/47'10	
retrograde	14999 Aug 10 23:49	18° m)38'17		evening set	15000 Jul 29 08:45	1°m/35'19	
evening set	14999 Aug 14 02:50	17° m 43'22			15000 Jul 31 06:03	30° R Ω	
inferior conj	14999 Aug 19 20:52	12°Mp09'10	2°25'17	inferior conj	15000 Aug 03 19:39	25° Ω 47'01	2°53'18
minimum elong	14999 Aug 19 23:09	12° m 02'18	2°24'20	minimum elong	15000 Aug 03 21:16	25° Ω 41'45	2°52'24
min. Earth dist.	14999 Aug 21 23:31	9° m 37'25	0.65232 AU	min. Earth dist.	15000 Aug 05 07:58	23° Ω 49'48	0.66875 AU
morning rise	14999 Aug 25 18:12	5° m/ 46'11		morning rise	15000 Aug 09 09:08	19° Ω 21'22	
desc. node	14999 Aug 29 00:25	3°m)45'52		direct	15000 Aug 15 11:28	16° Ω 44'25	
direct	14999 Sep 01 05:11	3°M)08'11		desc. node	15000 Aug 15 21:52	16°Ω45'08	
	14999 Sep 14 15:36	11° m)01'38	27907100		15000 Aug 15 21:32 15000 Aug 28 02:49	24°Ω16'26	25°59'57
morning max el	=		27 0709	morning max el			23 39 37
	14999 Sep 29 17:22	0∘ ⊽			15000 Sep 02 06:26	0° m	
	14999 Oct 17 18:09	0° M			15000 Sep 23 03:12	0∘ ⊽	
morning set	14999 Oct 20 05:09	4° ጤ 41'07		morning set	15000 Oct 03 01:52	17° ≏ 18'40	
asc. node	14999 Oct 23 08:35	10° M 53′29		max. Earth dist.	15000 Oct 06 19:14	24° ₽ 19'43	1.35278 AU
max. Earth dist.	14999 Oct 24 12:11	13°M13'13	1.33433 AU		15000 Oct 09 16:49	0° M	
				asc. node	15000 Oct 10 05:14	1° M .01'47	
superior conj	14999 Oct 28 15:35	21°M50'25	0°47'38				
minimum elong	14999 Oct 28 13:28	21°M39'10		superior conj	15000 Oct 12 10:48	5°M31'51	0°20'30
minimum ciong	14999 Nov 01 11:10	0° ₹	0 17 50	minimum elong	15000 Oct 12 10:10	5°M25'57	0°20'47
		0 x 7° x 07'07		_			0 2047
evening rise	14999 Nov 04 18:58			evening rise	15000 Oct 20 03:06	21°M26'28	
	14999 Nov 16 19:22	0° ろ			15000 Oct 24 08:21	0° ∡	
desc. node	14999 Nov 24 21:11	10° පි 38'56		evening max el	15000 Nov 07 13:30	21° ₹ ′53′04	20°30'11
evening max el	14999 Nov 25 15:47	11° る 25'48	21°59'48	desc. node	15000 Nov 11 18:22	25° ∡ 17'01	
retrograde	14999 Dec 08 04:23	17° る 37'38		retrograde	15000 Nov 18 15:01	27° ∡ ¹23'20	
evening set	14999 Dec 11 12:07	17° る 13'06		evening set	15000 Nov 20 22:03	27° ∡ 10′13	
inferior conj	14999 Dec 20 03:09	13° る 20'54	-5°56'48	inferior conj	15000 Nov 29 19:10	23° ∡ 15'33	-5°05'31
minimum elong	14999 Dec 19 23:45	13° る 25'40	5°55'36	minimum elong	15000 Nov 29 09:28	23° х 29′40	5°02'17
min. Earth dist.	14999 Dec 19 21:13	13° る 29'13	0.54492 AU	min. Earth dist.	15000 Dec 01 03:06	22° х 29′06	0.54645 AU
morning rise	14999 Dec 28 12:15	9° る 33'34	0.51.52110	morning rise	15000 Dec 07 20:36	19° √ 16'59	0.5 10 15 110
•		9° る 06'12		direct		18° ∡ 32'55	
direct	15000 Jan 01 00:42		21051120		15000 Dec 12 09:20		22020100
morning max el	15000 Jan 13 07:26	15° る 01'13	21°51'20	morning max el	15000 Dec 25 18:43	25° ∡ ¹05'49	23°39'09
asc. node	15000 Jan 19 08:04	22° る 03'32			15000 Dec 30 07:08	್ರಂ	
	15000 Jan 24 11:29	0° ≈		asc. node	15001 Jan 06 05:19	9° ප 48'46	
morning set	15000 Feb 03 04:07	18° ≈ 47′28			15001 Jan 16 23:48	0° ≈	
	15000 Feb 08 10:46	0° ∀		morning set	15001 Jan 18 15:56	3° ≈ 32'31	
superior conj	15000 Feb 10 07:25	3°) 55'41	1°19'28	superior conj	15001 Jan 25 12:22	18° ≈ 25'19	1°31'33
minimum elong	15000 Feb 10 09:44	4° ¥ 07'52		minimum elong	15001 Jan 25 13:53		1°32'11
max. Earth dist.	15000 Feb 14 12:15	12°\(\frac{1}{35}\)'19	1.34522 AU	max. Earth dist.	15001 Jan 28 08:11	24°≈29'04	1.32927 AU
		12 ★35 19 20°¥55'42	1.37344 AU	max, warm uist.		24 ≈ 29 04 0°)	1.32721 AU
evening rise	15000 Feb 18 18:05				15001 Jan 30 23:30		
desc. node	15000 Feb 20 21:43	24°) ₹58'56		evening rise	15001 Feb 02 05:27	4°) €33'43	
	15000 Feb 23 15:50	0° Υ		desc. node	15001 Feb 07 18:19	15°) (11'11	
	15000 Mar 14 22:08	0°8			15001 Feb 16 09:19	0° Υ	
evening max el	15000 Mar 25 20:17	12° 8 44'16	26°49'05	evening max el	15001 Mar 08 09:27	26° Y ′09'50	27°25'56
retrograde	15000 Apr 08 01:58	20° 8 10'51			15001 Mar 12 21:30	0° 8	
C							

retrograde	15001 Mar 22 01:40	3° 8 39'39		minimum elong	15002 Jan 09 21:58	3°≈06'12	1°38'14
evening set	15001 Mar 28 19:42	1° 8 11'23		max. Earth dist.	15002 Jan 09 21:58	6°≈29'46	1.31799 AU
evening set	15001 Mar 20 17:42 15001 Mar 30 07:09	30°RY		evening rise	15002 Jan 17 02:01	18°≈33'00	1.51777 AO
min. Earth dist.	15001 Mar 30 07:09	27° Υ '44'49	0.64357 AU	evening rise	15002 Jan 22 20:39	0° ∺	
inferior conj	15001 Apr 04 05:26	25°Υ'00'02	0°02'39	desc. node	15002 Jan 25 14:57	5° ₩ 05'54	
minimum elong	15001 Apr 04 05:20	25° Υ '00'13	0°02'17	dese. Hode	15002 Feb 10 18:33	0° Υ	
transit middle	15001 Apr 04 05:21	25°Υ′00'13	0°02'17	evening max el	15002 Feb 18 19:56	9° Υ 03'39	27°34'12
transit begin	15001 Apr 04 02:18	25°Υ′08'24	0 02 17	retrograde	15002 Mar 04 18:02	16° Y 29'37	2, 3.12
transit end	15001 Apr 04 08:25	24° Y ′52'03		evening set	15002 Mar 11 14:38	14° Y 12'37	
asc. node	15001 Apr 04 02:06	25° Y ′08'57		min. Earth dist.	15002 Mar 15 08:46	11° Y °12'12	0.62292 AU
morning rise	15001 Apr 10 17:07	19° Ƴ 37'30		inferior conj	15002 Mar 18 08:35	8° Y ′22'01	
direct	15001 Apr 13 06:47	19° Ƴ 03'46		minimum elong	15002 Mar 18 10:59	8° Y 16'18	1°09'19
morning max el	15001 Apr 19 15:05	22° Y 19'30	17°50'34	asc. node	15002 Mar 21 23:33	5° Y 11'49	
C	15001 Apr 25 17:04	0° ႘		morning rise	15002 Mar 25 10:17	3° Y 16'22	
morning set	15001 May 06 17:36	17° 8 55'13		direct	15002 Mar 27 16:24	2° Y 53'13	
desc. node	15001 May 06 20:22	18° 8 06'53		morning max el	15002 Apr 03 08:41	6° Y 15'58	17°47'02
	15001 May 13 23:49	Π°			15002 Apr 18 20:37	0°B	
	•			morning set	15002 Apr 19 06:35	0° 8 43'53	
superior conj	15001 May 20 04:52	10° Ⅱ 05'07	-1°33'03	desc. node	15002 Apr 23 17:04	8° 8 31'06	
minimum elong	15001 May 19 20:19	9° Ⅱ 30′50	1°33'00		•		
max. Earth dist.	15001 May 25 00:41	17° Ⅱ 45'21	1.45317 AU	superior conj	15002 Apr 30 22:41	20° 8 53'24	-0°55'34
	15001 Jun 01 21:21	0 \circ \odot		minimum elong	15002 Apr 30 17:23	20° 8 31'13	0°55'30
evening rise	15001 Jun 04 23:48	4°9545'47			15002 May 06 11:25	Π $\circ 0$	
greatest brilliancy	15001 Jun 19 20:21	27° © 00'39	-0.6m	max. Earth dist.	15002 May 07 17:29	2° Ⅱ 01'22	1.44039 AU
	15001 Jun 21 22:29	$0^{\circ}\Omega$		evening rise	15002 May 15 12:47	14° Ⅱ 19'35	
asc. node	15001 Jul 01 00:12	11° Ω 39'37			15002 May 25 21:45	0 \circ \mathfrak{s}	
evening max el	15001 Jul 02 03:20	12° Ω 50′12	20°03'34	evening max el	15002 Jun 15 01:48	26° © 42'13	21°11'55
retrograde	15001 Jul 09 19:01	17° Ω 11′02		asc. node	15002 Jun 17 21:08	29° © 13'11	
evening set	15001 Jul 13 17:30	15° Ω 41'46			15002 Jun 18 22:53	$0^{\circ}\Omega$	
inferior conj	15001 Jul 19 00:23	9° Ω 40'47	3°07'26	retrograde	15002 Jun 23 17:59	1° Ω 44'24	
minimum elong	15001 Jul 19 01:05	9° Ω 38'24	3°06'33	evening set	15002 Jun 28 03:05	29° 9 58'07	
min. Earth dist.	15001 Jul 19 22:38	8° Ω 25′17	0.68079 AU		15002 Jun 28 02:09	30° ℝ ∽	
morning rise	15001 Jul 24 08:19	3° Ω 16′55		inferior conj	15002 Jul 03 08:43	23° 5 46'00	3°09'36
direct	15001 Jul 29 23:39	0° Ω 48'44		minimum elong	15002 Jul 03 08:26	23° 5 46'59	3°08'39
desc. node	15001 Aug 02 19:18	1° Ω 44'45		min. Earth dist.	15002 Jul 03 17:28	23° © 15'34	0.68809 AU
morning max el	15001 Aug 10 13:37	7° Ω 44'54	24°36'51	morning rise	15002 Jul 08 13:33	17° 5 27'00	
	15001 Aug 27 23:52	0° m y		direct	15002 Jul 13 16:47	15° © 13'14	
morning set	15001 Sep 15 05:13	29° Mp 09'30		desc. node	15002 Jul 20 16:38	18° © 19'45	
	15001 Sep 15 16:45	0∘ ⊽		morning max el	15002 Jul 24 00:49	21° © 21'51	23°07'34
max. Earth dist.	15001 Sep 18 19:09	5° ₾ 32'09	1.37507 AU		15002 Jul 31 11:36	0 \circ Ω	
					15002 Aug 21 05:36	0° ™	
superior conj	15001 Sep 25 19:09	18° ≏ 41'04	-0°11'38	morning set	15002 Aug 27 10:59	10° Mp 04'22	
minimum elong	15001 Sep 25 19:54	18° ≏ 44'45	0°11'16	max. Earth dist.	15002 Aug 31 17:40	17° m) 17'54	1.39894 AU
behind sun begin	15001 Sep 25 15:04	18° ≏ 21'15			15002 Sep 07 21:33	0∘ ⊽	
behind sun end	15001 Sep 26 00:45	19° ≏ 08'16					
asc. node	15001 Sep 27 01:49	21° ≏ 10'35		superior conj	15002 Sep 08 12:49	1° ≏ 09'56	
	15001 Oct 01 12:24	0°M		minimum elong	15002 Sep 08 16:23	1° 2 26'17	0°46'33
evening rise	15001 Oct 04 06:31	5°M31'35		asc. node	15002 Sep 13 22:24	11° Ω 16'55	
	15001 Oct 18 07:43	0° ∕ ⁷	10001100	evening rise	15002 Sep 18 02:20	19° Ω 15'42	
evening max el	15001 Oct 21 01:34	3°×707'25	19°21'09		15002 Sep 23 19:19	0°M	1002415
desc. node	15001 Oct 29 15:40	7° 🗷 48'59		evening max el	15002 Oct 04 02:25	15°M10'44	18°34'17
retrograde	15001 Oct 30 11:58	7° 🗷 51'11		retrograde	15002 Oct 12 02:55	19°M14'02	
evening set	15001 Nov 01 09:08	7° × ⁷ 40'41	2021104	evening set	15002 Oct 14 01:36	19°M00'30	
inferior conj	15001 Nov 09 23:18	3°×732'10		desc. node	15002 Oct 16 13:02	18°M07'16	1044145
minimum elong min. Earth dist.	15001 Nov 09 14:37	3° x ⁷ 46'25	3°27'12 0.55701 AU	inferior conj	15002 Oct 21 23:57	14°M32'07 14°M40'09	-1°44'45 1°42'26
min. Earth dist.	15001 Nov 12 12:33		0.55/01 AU	minimum elong	15002 Oct 21 19:45		
morning rig-	15001 Nov 15 16:49	30°RM		min. Earth dist.	15002 Oct 25 04:20	12°M06'48	0.57475 AU
morning rise direct	15001 Nov 17 17:49 15001 Nov 23 03:44	29°M03'32 27°M57'00		morning rise direct	15002 Oct 29 10:27 15002 Nov 04 12:53	9°ጤ26'11 7°ጤ52'52	
uncei		2/*IIL5/100 0° ズ				15°M22'18	26°52'32
morning max el	15001 Nov 30 12:26 15001 Dec 07 04:12	0° x ¹ 5° x ⁷ 01'36	25025158	morning max el	15002 Nov 18 19:13 15002 Nov 30 15:24	15°11622'18 0° x 7	20 32 32
asc. node	15001 Dec 07 04:12 15001 Dec 24 02:29	28° × 19'40	43 43 30	asc. node	15002 Nov 30 15:24 15002 Dec 10 23:33	17° х ⁷ 24'38	
asc. Hour	15001 Dec 24 02:29 15001 Dec 25 00:51	28° X '19'40'		asc. Hout	15002 Dec 10 23:33 15002 Dec 17 06:40	1/* x *24*38	
morning set	15001 Dec 25 00.51 15002 Jan 03 03:36	0 8 18° る 12'38		morning set	15002 Dec 17 06.40 15002 Dec 18 13:22	0 3 2° る 43'09	
morning set	15002 Jan 08 12:22	0°≈		morning set	15002 DCC 10 15.22	2 07309	
	-2002 Juli 00 12.22	J . J .		superior conj	15002 Dec 25 08:43	17° る 44'19	1°37'06
superior conj	15002 Jan 09 21:29	3° ≈ 03'31	1°37'21	minimum elong	15002 Dec 25 08:43	17°ප්41'06	1°38'03
superior conj	-2002 Juli 07 21.27	5.4.0551		Ciong	10002 200 20 00.00	1, 5,100	. 5505

max. Earth dist.	15002 Dec 25 17:48	100=235107	1.31184 AU	morning set	15003 Dec 02 19:25	16° ∡ 759'45	
max. Earm dist.	15002 Dec 25 17.48 15002 Dec 30 21:58	0°≈	1.31164 AU	morning set	15003 Dec 02 19.23 15003 Dec 08 18:37	16 x・3943	
evening rise	15002 Dec 30 21:38 15003 Jan 01 05:15	0 ∞ 2°≈47'29		max. Earth dist.	15003 Dec 08 18:37 15003 Dec 09 01:39	0° ろ 39'13	1.31105 AU
desc. node	15003 Jan 12 11:41	24°≈35'59		max. Lattii dist.	13003 Dec 07 01.37	0 03713	1.51105 AC
dese. Hode	15003 Jan 15 17:08	0° ∀		superior conj	15003 Dec 09 20:08	2° る 22'29	1°30'54
evening max el	15003 Feb 01 01:28	21°) 14'05	27°08'52	minimum elong	15003 Dec 09 18:38	2°る14'05	1°31'45
retrograde	15003 Feb 15 01:45	28°\(\)30'55	27 00 32	evening rise	15003 Dec 16 13:00	17°る12'09	1 31 43
evening set	15003 Feb 21 18:43	26° X 30'33'14		evening rise	15003 Dec 22 18:27	0°≈	
min. Earth dist.	15003 Feb 25 15:54	23°) 50'24	0.60073 AU	desc. node	15003 Dec 30 08:30	13° ≈ 32'19	
inferior conj	15003 Feb 28 20:43	21°) 10'53		desc. Hode	15004 Jan 11 11:10	0° ₩	
minimum elong	15003 New 20 20:15	20°\(\)58'59		evening max el	15004 Jan 13 23:40	2° ¥ 33'23	26°08'52
morning rise	15003 Mar 08 13:32	16°) 24'42	2 31 30	retrograde	15004 Jan 27 22:40	9° X 38'01	20 00 32
asc. node	15003 Mar 08 21:02	16° X 24'42		evening set	15004 Feb 03 04:12	8° X 06'00	
direct	15003 Mar 10 14:28	16°) €08'26		min. Earth dist.	15004 Feb 07 12:58	5° ¥ 28'40	0.57911 AU
morning max el	15003 Mar 17 23:25	19°) 49'14	18°02'02	inferior conj	15004 Feb 10 14:14	3° ∺ 16'53	
morning max ci	15003 Mar 17 23:25 15003 Mar 25 11:55	0°Υ	18 02 02	minimum elong	15004 Feb 10 14:14 15004 Feb 10 22:54	3° ∺ 01'16	
morning set	15003 Mar 23 11:35 15003 Apr 02 13:06	14° Υ 20'43		minimum clong	15004 Feb 15 17:39	30°R≈	3 3617
desc. node	15003 Apr 02 13:00 15003 Apr 10 13:41	29° Υ 01'58		mamina risa	15004 Feb 18 20:38	30 k≈ 28°≈52'02	
desc. node	•	0° 8		morning rise direct		28°≈38'54	
	15003 Apr 11 02:40	0.0		asc. node	15004 Feb 20 20:41 15004 Feb 23 18:29	28 ≈38 34 29°≈08'06	
	15002 4 12 16:02	200 45156	001750	asc. node		29° ≈ 08′06 0° ∺	
superior conj	15003 Apr 12 16:03	2° 8 45'56			15004 Feb 25 16:30		10027115
minimum elong	15003 Apr 12 14:36	2° 8 39'31		morning max el	15004 Feb 29 07:21	2°) (48'08	18°37'15
max. Earth dist.	15003 Apr 20 05:46	15° 8 44'32	1.42223 AU	morning set	15004 Mar 16 07:55	28°) (30′17	
evening rise	15003 Apr 25 16:14	24° 8 36'00			15004 Mar 17 02:28	0 ° Υ	
	15003 Apr 29 02:21	U°0			1500434 25 05 46	1.500000100	0015150
	15003 May 19 19:48	0°95		superior conj	15004 Mar 25 05:46	15° Y 33'39	0°17'59
evening max el	15003 May 28 19:19	10° © 34'35	22°29'35	minimum elong	15004 Mar 25 06:59	15° Ƴ 39'16	0°17'36
asc. node	15003 Jun 04 18:11	15° © 44'14		desc. node	15004 Mar 27 10:16	19° Ƴ 35'55	
retrograde	15003 Jun 07 15:22	16° © 20'59		max. Earth dist.	15004 Apr 01 14:08	28° Y ′48′26	1.40059 AU
evening set	15003 Jun 12 11:44	14° © 18'58			15004 Apr 02 06:38	0° 8	
inferior conj	15003 Jun 17 18:32	7° © 57'41	3°00'57	evening rise	15004 Apr 05 16:29	5° 8 48'00	
minimum elong	15003 Jun 17 17:22	8° © 01'45	2°59'51		15004 Apr 21 04:43	0∘Щ	
min. Earth dist.	15003 Jun 17 14:13	8° © 12'42	0.69060 AU	evening max el	15004 May 10 09:55	24° Ⅱ 28'40	23°50'52
morning rise	15003 Jun 22 22:50	1° © 45'32			15004 May 17 15:29	0 \circ	
	15003 Jun 26 04:20	30°RⅡ		retrograde	15004 May 21 09:49	0° © 55'45	
direct	15003 Jun 27 13:39	29° ∏ 50′00		asc. node	15004 May 21 15:18	0° © 55'31	
	15003 Jun 29 00:05	$0 \circ \mathfrak{S}$			15004 May 24 20:47	30°Ŗ Ⅱ	
morning max el	15003 Jul 06 14:54	5° 5 06'20	21°40'44	evening set	15004 May 26 17:51	28° Ⅱ 40′05	
desc. node	15003 Jul 07 13:55	6° © 05'31		min. Earth dist.	15004 May 31 10:43		0.68834 AU
	15003 Jul 25 15:18	0 $^{\circ}\Omega$		inferior conj	15004 Jun 01 03:53	22° Ⅱ 12'17	
morning set	15003 Aug 07 16:19	19° Ω 55'51		minimum elong	15004 Jun 01 02:03	22° Ⅱ 18'34	2°40'39
	15003 Aug 13 21:47	0° m y		morning rise	15004 Jun 06 10:15	16° Ⅱ 08'26	
max. Earth dist.	15003 Aug 13 20:36	29° Ω 55'09	1.42161 AU	direct	15004 Jun 10 12:52	14° Ⅲ 32'57	
				morning max el	15004 Jun 18 10:54	19° Ⅱ 01'32	20°23'14
superior conj	15003 Aug 21 11:19	12° m 47'55		desc. node	15004 Jun 23 11:06	24° Ⅱ 43'37	
minimum elong	15003 Aug 21 17:49	13°Mp 16'08	1°22'14		15004 Jun 27 11:05	0 \circ	
	15003 Aug 31 02:13	0∘ ⊽		morning set	15004 Jul 17 01:08	28° © 55'50	
asc. node	15003 Aug 31 18:58	1° ≏ 16'32			15004 Jul 17 17:45	0 \circ Ω	
evening rise	15003 Sep 01 10:41	2° ≏ 28'24		max. Earth dist.	15004 Jul 26 06:39	13° Ω 25'19	1.44041 AU
evening max el	15003 Sep 17 11:53	27° ≏ 53'55	18°08'29				
	15003 Sep 20 00:38	0°M₊		superior conj	15004 Aug 01 10:54	23° Ω 27'11	
retrograde	15003 Sep 24 12:35	1°M29'29		minimum elong	15004 Aug 01 18:24	23° Ω 58′07	1°53'17
evening set	15003 Sep 26 17:47	1°M08'30			15004 Aug 05 09:16	0° m ∌	
	15003 Sep 29 05:01	30° ₹ Ω		evening rise	15004 Aug 14 02:49	14° m 57'52	
desc. node	15003 Oct 03 10:28	26° ≏ 44'54		asc. node	15004 Aug 17 15:32	21°M) 05'22	
inferior conj	15003 Oct 03 22:10	26° £ 18'59	-0°09'12		15004 Aug 22 22:21	0∘ ⊽	
minimum elong	15003 Oct 03 21:52	26° ≏ 19'40	0°08'43	evening max el	15004 Aug 31 01:43	11° ഫ 06'11	18°02'10
transit middle	15003 Oct 03 21:52	26° ≙ 19'40	0°08'43	retrograde	15004 Sep 06 13:27	14° ≏ 28'11	
transit begin	15003 Oct 03 19:01	26° £ 26′00		evening set	15004 Sep 09 02:42	13° ჲ 56′09	
transit end	15003 Oct 04 00:42	26° ≙ 13'19		inferior conj	15004 Sep 15 15:00	8° ≏ 47'14	1°06'37
min. Earth dist.	15003 Oct 07 04:13	23° ≏ 26′21	0.59661 AU	minimum elong	15004 Sep 15 16:48	8° ≏ 42'38	1°06'02
morning rise	15003 Oct 10 22:37	20° ≏ 39'41		min. Earth dist.	15004 Sep 18 13:35	5° ≏ 48'17	0.61953 AU
direct	15003 Oct 17 11:20	18° ≏ 40'06		desc. node	15004 Sep 19 07:58	5° ≏ 04'24	
morning max el	15003 Oct 31 18:08	26° ≙ 27'13	27°45'07	morning rise	15004 Sep 22 04:22	2° ≏ 43'23	
	15003 Nov 04 02:38	0° M		direct	15004 Sep 28 20:39	0° ჲ 22'39	
	15003 Nov 24 04:59	0° ∡ 7		morning max el	15004 Oct 12 23:52	8° ≏ 20'16	27°58'34
asc. node	15003 Nov 27 20:32	6° ₹ 54'37			15004 Oct 29 16:17	0° M	

asc. node morning set max. Earth dist.	15004 Nov 13 17:22 15004 Nov 15 08:35 15004 Nov 15 19:39 15004 Nov 21 06:31	26°M41'55 0°⊀ 0°⊀56'46 12°⊀32'08	1.31577 AU	morning set asc. node max. Earth dist.	15005 Oct 22 18:59 15005 Oct 30 11:41 15005 Oct 31 14:06 15005 Nov 04 04:42	0°M 14°M29'03 16°M41'04 24°M06'24	1.32599 AU
superior conj	15004 Nov 21 00:31 15004 Nov 23 05:49	12 x 32 08 16° x 51′58	1°18'46	max. Earth dist.	15005 Nov 04 04.42 15005 Nov 06 23:13	0° √	1.32399 AU
minimum elong	15004 Nov 23 03:41 15004 Nov 29 04:35	16° メ *40'09 0°る	1°19′26	superior conj minimum elong	15005 Nov 07 11:48 15005 Nov 07 09:29	1° х 07'45 0° х 55'16	1°00'42 1°01'09
evening rise desc. node	15004 Nov 29 23:15 15004 Dec 15 02:08	1°る41'15 0°≈		evening rise	15005 Nov 14 10:12 15005 Nov 21 04:40	16°メ10'28 0°る 18°る47'04	
evening max el	15004 Dec 16 05:25 15004 Dec 25 13:26	1°≈41'38 13°≈01'41	24°40'13	desc. node evening max el	15005 Dec 03 02:25 15005 Dec 06 22:53	18°84/04 23° る 00'22	22°57'42
retrograde	15004 Dec 23 13:20 15005 Jan 08 06:40	13 ≈0141 19°≈52'34	24 40 13	retrograde	15005 Dec 00 22:33 15005 Dec 20 02:03	23 30022 29° る 31'06	22 37 42
evening set	15005 Jan 13 15:18	18° ≈ 49'10		evening set	15005 Dec 24 04:20	28° る 54'36	
min. Earth dist.	15005 Jan 19 01:16	16° ≈ 01'08	0.56067 AU	min. Earth dist.	15005 Dec 31 08:14	25° ට 36'14	0.54829 AU
inferior conj	15005 Jan 21 10:40	14° ≈ 31'10	-5°17'57	inferior conj	15006 Jan 01 11:58	24° පි 56'38	-5°58'46
minimum elong	15005 Jan 21 19:05	14° ≈ 17'57	5°15'29	minimum elong	15006 Jan 01 14:01	24° る 53'44	5°57'45
morning rise	15005 Jan 30 00:59	10° ≈ 27'24		morning rise	15006 Jan 10 01:06	21° ට 07'28	
direct	15005 Feb 01 07:38	10° ≈ 13′19		direct	15006 Jan 13 00:07	20° ප් 47'04	
asc. node	15005 Feb 09 15:55	13° ≈ 38′23		morning max el	15006 Jan 24 10:54	26° ප 17'02	20°55'30
morning max el	15005 Feb 11 04:15	14° ≈ 59'58	19°34'45	asc. node	15006 Jan 27 13:16	29° ට 38'19	
	15005 Feb 21 17:17	0° \			15006 Jan 27 20:25	0° ≈	
morning set	15005 Feb 28 10:54	12° ¥ 59'31		morning set	15006 Feb 12 19:04	27°≈39'46	
	15005 M 00 11.17	29°) €03'11	0°47'05		15006 Feb 13 22:02	0° ℋ	
superior conj minimum elong	15005 Mar 08 11:17 15005 Mar 08 13:44	29 X 05 11 29° X 15'08	0°46'48	superior conj	15006 Feb 20 04:29	13° ¥ 03'19	1°09'33
minimum clong	15005 Mar 08 22:54	29 γ (1308	0 40 48	minimum elong	15006 Feb 20 07:04	13° X 16'33	1°09'36
desc. node	15005 Mar 14 06:48	10° Υ '08'36		max. Earth dist.	15006 Feb 25 05:12	23° \ 08'19	1.35620 AU
max. Earth dist.	15005 Mar 14 20:34	11° Y °12'06	1.37777 AU		15006 Feb 28 19:28	0°Υ	
evening rise	15005 Mar 18 13:15	17° Y ′51′26		evening rise	15006 Mar 01 03:45	0° Υ 38'33	
	15005 Mar 25 17:17	0°8		desc. node	15006 Mar 01 03:19	0° Ƴ 36'32	
	15005 Apr 15 12:23	$\Pi^{\circ}0$			15006 Mar 18 20:20	0° 8	
evening max el	15005 Apr 22 23:24	8° Ⅲ 22'37	25°09'14	evening max el	15006 Apr 05 12:55	22° 8 12'03	26°17'25
retrograde	15005 May 05 00:18	15° Ⅲ 22'12		retrograde	15006 Apr 18 09:55	29° 8 32'52	
asc. node	15005 May 08 12:32	14° Ⅲ 30′18		evening set	15006 Apr 24 15:52	27° 8 01'06	
evening set	15005 May 10 19:49	12° Ⅲ 56'09		asc. node	15006 Apr 25 09:51	26° 8 22'02	
min. Earth dist.	15005 May 15 04:50	8°Ⅲ03'38	0.68128 AU	min. Earth dist.	15006 Apr 28 18:31	22° 8 43'57	0.66969 AU
inferior conj	15005 May 16 10:51	6°Ⅲ25'28 6°Ⅲ32'32	2°12'26	inferior conj	15006 Apr 30 13:22	20° 8 32'29	1°31'41
minimum elong morning rise	15005 May 16 08:42 15005 May 21 21:55	0° Д 32′32	2-10-59	minimum elong morning rise	15006 Apr 30 11:25 15006 May 06 07:51	20° 8 38'30 14° 8 48'59	1-30-20
morning rise	15005 May 21 21:35 15005 May 22 18:12	30°R B		direct	15006 May 09 12:04	13° 8 52'02	
direct	15005 May 25 12:55	29° 8 15'44		morning max el	15006 May 16 00:41	17° 8 20'22	18°31'39
ancer	15005 May 28 10:46	0°II		morning max or	15006 May 25 18:04	0°II	10 31 37
morning max el	15005 Jun 01 14:21	3° I 107'38	19°19'30	desc. node	15006 May 28 05:04	3° Ⅱ 43'57	
desc. node	15005 Jun 10 08:08	13° Ⅱ 59'56		morning set	15006 Jun 05 23:27	17° Ⅱ 25'51	
greatest brilliancy	15005 Jun 14 07:03	19° Ⅱ 44′00	-0.7m		15006 Jun 13 23:45	0ංම	
	15005 Jun 21 02:39	0 \circ \odot					
morning set	15005 Jun 26 04:44	7° 5 47'31		superior conj	15006 Jun 21 21:41	12° 5 21'13	
max. Earth dist.	15005 Jul 08 22:38	27°935'04	1.45328 AU	minimum elong	15006 Jun 21 17:41	12° © 05'35	
	15005 Jul 10 11:28	$0 {\circ} \Omega$		max. Earth dist.	15006 Jun 21 17:50	12°906'11	1.45908 AU
aumorior comi	15005 Iul 12 11.29	29 0 1 0 2 7	2011/22	avanina rica	15006 Jul 03 04:13	0° Ω 7° Ω 03'18	
superior conj minimum elong	15005 Jul 12 11:38 15005 Jul 12 15:20	3°Ω10'27 3°Ω25'08		evening rise greatest brilliancy	15006 Jul 07 15:31 15006 Jul 15 22:38	20°Ω08'05	-0.8m
evening rise	15005 Jul 26 21:36	26° Ω 32'04	2 12 20	asc. node	15006 Jul 22 08:51	29° Ω 50'25	-0.6111
evening rise	15005 Jul 28 23:56	0° m)		use. Hode	15006 Jul 22 11:31	0° m)	
asc. node	15005 Aug 04 12:10	10° mp 38'50		evening max el	15006 Jul 29 04:34	8° mp 22'31	18°43'52
evening max el	15005 Aug 14 16:17	24° m/38'26	18°14'13	retrograde	15006 Aug 04 19:05	11° m) 57'54	
retrograde	15005 Aug 21 00:58	28° Mp 00'38		evening set	15006 Aug 08 01:58	10° m 56'03	
evening set	15005 Aug 23 22:47	27° m 14'43		inferior conj	15006 Aug 13 16:33	5° M y 15'37	2°39'01
inferior conj	15005 Aug 29 22:25	21° m 48'57	2°01'53	minimum elong	15006 Aug 13 18:36	5° Mp 09'12	
minimum elong	15005 Aug 30 00:48	21° Mp 42'07	2°00'57	min. Earth dist.	15006 Aug 15 13:08	2° My 57'12	0.65976 AU
min. Earth dist.	15005 Sep 01 08:54	19° Mp 02'48	0.64112 AU		15006 Aug 18 04:14	30°R Ω	
morning rise	15005 Sep 05 01:10	15° Mp 30'18		morning rise	15006 Aug 19 10:15	28° Ω 50′29	
desc. node	15005 Sep 06 05:28	14° TD 39'33		desc. node	15006 Aug 24 02:58	26° Ω 21'42	
direct	15005 Sep 11 15:15	12° M 56'08	27025101	direct	15006 Aug 25 17:48	26° Ω 11'51	
morning max el	15005 Sep 25 09:52 15005 Oct 03 06:53	20° m 55′05 0° <u>₽</u>	4/ 33 01	morning max el	15006 Sep 03 11:24 15006 Sep 07 21:17	0° Mp 3° Mp 58'52	26°/11'06
	13003 001 03 00.33	V ==		morning max ci	13000 SCP 0/ 21.1/	J 111/2002	20 71 00

	15006 Sep 27 16:36	0∘ ত			15007 Aug 31 22:29	0° m)	
morning set	15006 Sep 27 16:36 15006 Oct 13 16:29	0 = 27° £ 28'55			15007 Aug 31 22:29 15007 Sep 20 15:54	0∘ ⊽	
morning set	15006 Oct 15 10:29	0°M		morning set	15007 Sep 26 06:22	o – 9° ≏ 47'56	
max. Earth dist.	15006 Oct 17 17:09	5°M18'54	1.34160 AU	max. Earth dist.	15007 Sep 20 00:22 15007 Sep 29 20:10	16° ≏ 22'30	1.36193 AU
asc. node	15006 Oct 17 17:09	6°M46'55	1.54100710	asc. node	15007 Sep 25 20:10 15007 Oct 05 07:23	26° £ 55'48	1.50175710
use. Houe	13000 001 10 10.40	0 110-1033		use. Houe	13007 000 03 07.23	20 = 33 40	
superior conj	15006 Oct 22 11:42	15°ML03'21	0°36'47	superior conj	15007 Oct 06 02:46	28° ₽ 32'12	0°07'26
minimum elong	15006 Oct 22 09:53	14°M53'51	0°37'05	minimum elong	15007 Oct 06 02:18	28° ≏ 29'51	0°07'43
evening rise	15006 Oct 29 19:56	0° ∡ ³34'22		behind sun begin	15007 Oct 05 20:43	28° ჲ 01'59	
•	15006 Oct 29 13:24	0° ∡ ¹		behind sun end	15007 Oct 06 07:53	28° ≏ 57'47	
	15006 Nov 15 17:24	ರ°0			15007 Oct 06 20:19	0° M	
evening max el	15006 Nov 18 13:41	3° る 07'17	21°19'26	evening rise	15007 Oct 14 02:23	14° M 48'09	
desc. node	15006 Nov 19 23:33	4° る 26'03			15007 Oct 21 22:06	0° ∡ ¹	
retrograde	15006 Nov 30 13:00	9° ට 03'11		evening max el	15007 Oct 31 17:33	13° ∡ ¹53'55	19°58'05
evening set	15006 Dec 03 08:15	8°₹45′02		desc. node	15007 Nov 06 20:48	18° ∡ 13′03	
inferior conj	15006 Dec 12 03:18	4° る 53'17	-5°42'02	retrograde	15007 Nov 11 02:11	19° ∡ °03'39	
minimum elong	15006 Dec 11 20:23	5° る 03'02	5°40'04	evening set	15007 Nov 13 03:13	18° ∡ ′52'33	
min. Earth dist.	15006 Dec 12 13:55	4° る 38'20	0.54437 AU	inferior conj	15007 Nov 21 22:59	14° ₹ ⁷ 53'34	-4°28'49
morning rise	15006 Dec 20 09:00	1° る 03'24		minimum elong	15007 Nov 21 12:56	15° ∡ 08'49	4°24'58
direct	15006 Dec 24 07:38	0° る 29'46		min. Earth dist.	15007 Nov 23 21:14	13° ∡ ¹43'23	0.54994 AU
morning max el	15007 Jan 06 03:40	6° る 42'24	22°36'13	morning rise	15007 Nov 29 21:25	10° ∡ ′43'49	
asc. node	15007 Jan 14 10:33	16° る 49'53		direct	15007 Dec 04 19:55	9° ∡ ′50'31	
	15007 Jan 22 03:34	0° ≈		morning max el	15007 Dec 18 12:52	16° ∡ °38′09	24°25'50
morning set	15007 Jan 28 06:08	12° ≈ 24'30			15007 Dec 29 06:08	0°ಕ	
				asc. node	15008 Jan 01 07:46	4° る 56'04	
superior conj	15007 Feb 04 05:58	27° ≈ 24'34	1°25'23	morning set	15008 Jan 12 18:05	27° る 07'38	
minimum elong	15007 Feb 04 08:00	27° ≈ 35'21	1°25'48		15008 Jan 14 01:59	0° ≈	
	15007 Feb 05 11:17	0° ∀					
max. Earth dist.	15007 Feb 07 20:19	4°) 57'46	1.33783 AU	superior conj	15008 Jan 19 12:58	11° ≈ 58′25	1°34'46
evening rise	15007 Feb 12 08:28	14° ∺ 00'40		minimum elong	15008 Jan 19 14:04	12° ≈ 04'25	1°35'31
desc. node	15007 Feb 15 23:51	20°) 55′53		max. Earth dist.	15008 Jan 21 19:16	16° ≈ 53'40	1.32385 AU
	15007 Feb 21 01:51	0° Υ		evening rise	15008 Jan 27 00:06	27°≈48'39	
	15007 Mar 13 16:24	0°8			15008 Jan 28 02:10	0°) {	
evening max el	15007 Mar 19 02:33	5° 8 49'47	27°07'56	desc. node	15008 Feb 02 20:27	11°) €01'17	
retrograde	15007 Apr 01 13:44	13° 8 19'48			15008 Feb 14 07:27	0°Υ 100 0 000154	0.700.010.0
evening set	15007 Apr 08 04:06	10° 8 48'23	0.65402.441	evening max el	15008 Feb 29 15:01	19° ℃ 03'54	27°33'28
min. Earth dist.	15007 Apr 12 01:53	7° 8 04'10	0.65403 AU	retrograde	15008 Mar 14 10:32	26° Y 32'46 24° Y 08'43	
asc. node	15007 Apr 12 07:14	6° 8 49'22 4° 8 28'18	0020151	evening set	15008 Mar 21 06:05	24°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	0.63501 AU
inferior conj	15007 Apr 14 09:08	4° 8 31'13	0°38'51	min. Earth dist.	15008 Mar 25 00:53 15008 Mar 27 19:18	18° Υ 05'02	
minimum elong	15007 Apr 14 08:06 15007 Apr 18 21:37	4 O 31 13	0 37 39	inferior conj minimum elong	15008 Mar 27 19:18 15008 Mar 27 20:09	18 γ 03 02 18° γ 02'52	0°26'38
morning rise	15007 Apr 18 21:37 15007 Apr 20 13:46	28° Υ 57'21		asc. node	15008 Mar 29 04:41	16° Υ 41'28	0 20 38
direct	15007 Apr 20 13:40 15007 Apr 23 08:18	28° Υ 16'09		morning rise	15008 Mai 29 04.41 15008 Apr 03 12:40	10 γ 41 28 12° Υ 49'03	
direct	15007 Apr 27 20:27	0°8		direct	15008 Apr 05 12:40	12° Υ 20'15	
morning max el	15007 Apr 29 16:01		18°00'37	morning max el	15008 Apr 12 09:37	15° Υ 37'53	17°46'50
desc. node	15007 May 15 01:53	23° 8 48'14	10 00 57	morning max or	15008 Apr 22 15:28	0°8	17 1030
morning set	15007 May 17 21:08	28° 8 23'00		morning set	15008 Apr 28 21:20	10° 8 35'36	
morning sec	15007 May 18 20:54	0°Ⅱ		desc. node	15008 Apr 30 22:35	14° 8 06'13	
					15008 May 10 10:08	0°II	
superior conj	15007 Jun 01 09:23	21° II 43'01	-1°51'16		y		
minimum elong	15007 Jun 01 00:41	21° Ⅲ 08'41	1°51'30	superior conj	15008 May 11 13:47	1°Ⅲ53′08	-1°17'43
max. Earth dist.	15007 Jun 04 13:51	26° Ⅱ 43'16	1.45741 AU	minimum elong	15008 May 11 06:20	1° Ⅲ 22'43	1°17'35
	15007 Jun 06 16:14	0ಂತಾ		max. Earth dist.	15008 May 17 08:40	11° Ⅱ 11'48	1.44852 AU
evening rise	15007 Jun 17 11:38	16°5943'21		evening rise	15008 May 26 22:23	26° Ⅱ 06'49	
	15007 Jun 26 04:06	$0^{\circ}\Omega$			15008 May 29 11:30	0ಂತಾ	
greatest brilliancy	15007 Jun 30 18:26	6° Ω 52'44	-0.7m		15008 Jun 19 07:40	$0^{\circ}\Omega$	
asc. node	15007 Jul 09 05:38	18° Ω 32'38		evening max el	15008 Jun 24 14:23	6° Ω 04'55	20°31'17
evening max el	15007 Jul 12 12:23	22° Ω 12′56	19°30'08	asc. node	15008 Jun 25 02:32	6° Ω 34'42	
retrograde	15007 Jul 19 16:48	26° £ 13′50		retrograde	15008 Jul 02 15:45	10° Ω 42'04	
evening set	15007 Jul 23 09:22	24° Ω 54'49		evening set	15008 Jul 06 18:43	9° Ω 05′29	
inferior conj	15007 Jul 28 18:14	19° Ω 01'09	3°00'49	inferior conj	15008 Jul 12 00:47	2° Q 59'51	3°09'41
minimum elong	15007 Jul 28 19:29	18° Q 57′00	2°59'57	minimum elong	15008 Jul 12 01:03	2° Ω 58'52	3°08'48
min. Earth dist.	15007 Jul 30 00:36	17° Ω 20'43	0.67445 AU	min. Earth dist.	15008 Jul 12 17:16	2° Ω 03′11	0.68452 AU
morning rise	15007 Aug 03 05:03	12° Ω 35'40			15008 Jul 14 06:08	30° ℝ ∽	
direct	15007 Aug 09 03:00	10° Ω 01'17		morning rise	15008 Jul 17 07:06	26° © 37'55	
desc. node	15007 Aug 11 00:25	10° Ω 15′02		direct	15008 Jul 22 17:30	24° © 15'06	
morning max el	15007 Aug 21 08:15	17° Ω 20'11	25°25'51	desc. node	15008 Jul 27 21:49	25° © 58'02	

		0					
	15008 Aug 01 21:57	$0^{\circ}\Omega$		morning max el	15009 Jul 16 06:53	14° © 31'09	22°29'56
morning max el	15008 Aug 02 18:48	0° Ω 51'32	23°59'04		15009 Jul 28 19:54	0 $^{\circ}\Omega$	
	15008 Aug 24 20:12	0° m y			15009 Aug 17 18:54	0° m y	
morning set	15008 Sep 07 01:03	21° Mp 16'03		morning set	15009 Aug 18 20:31	1° m)43'38	
max. Earth dist.	15008 Sep 10 18:45	27° Mp 46'17	1.38522 AU	max. Earth dist.	15009 Aug 23 19:12	9° m 54'50	1.40889 AU
	15008 Sep 12 00:46	0∘ 亚					
				superior conj	15009 Aug 31 15:33	23° m 34'10	-1°02'24
superior conj	15008 Sep 18 05:29	11° ≏ 26′02	-0°26'22	minimum elong	15009 Aug 31 20:25	23° m 56'02	1°01'52
minimum elong	15008 Sep 18 07:20	11° ≏ 34'50	0°25'57		15009 Sep 04 04:28	0∘ ⊽	
asc. node	15008 Sep 21 03:59	17° ≏ 04'12		asc. node	15009 Sep 08 00:34	7° ჲ 08'02	
evening rise	15008 Sep 27 03:00	28° ≏ 45'38		evening rise	15009 Sep 10 18:29	12° ≏ 17'49	
8 21	15008 Sep 27 18:08	0°M₊		8	15009 Sep 20 16:41	0°M	
evening max el	15008 Oct 13 11:36	25°M30'31	18°58'32	evening max el	15009 Sep 26 16:36	7°M51'37	18°20'48
retrograde	15008 Oct 22 06:13	29°M55'29	10 0002	retrograde	15009 Oct 04 05:43	11° M 41'47	10 20 10
desc. node	15008 Oct 23 18:09	29°M48'15		evening set	15009 Oct 06 06:48	11°M25'34	
evening set	15008 Oct 24 03:19	29°M44'09		desc. node	15009 Oct 00 00:48	9°M16'51	
inferior conj	15008 Nov 01 11:22	25°M27'27	2015115	inferior conj	15009 Oct 10 13:33 15009 Oct 13 21:24	6°M47'43	1002'08
•	15008 Nov 01 04:28	25°M39'30	2°42'22	minimum elong	15009 Oct 13 21:24 15009 Oct 13 19:03		1°00'40
minimum elong			0.56390 AU	Č		4°ML08'35	
min. Earth dist.	15008 Nov 04 08:51	23°M26'35	0.56390 AU	min. Earth dist.	15009 Oct 17 03:42		0.58370 AU
morning rise	15008 Nov 09 02:47	20°M43'31		morning rise	15009 Oct 21 03:50	1°M26'38	
direct	15008 Nov 14 20:36	19°M25'55			15009 Oct 24 20:54	30° ₹ Ω	
morning max el	15008 Nov 28 23:59	26° ™ 40'58	26°06'15	direct	15009 Oct 27 11:14	29° △ 42'12	
	15008 Dec 02 04:29	0° ∡ ¹			15009 Oct 30 02:35	0° M	
asc. node	15008 Dec 18 04:53	23° ∡ ¹43'05		morning max el	15009 Nov 10 18:31	7° ™ 19'37	27°19'39
	15008 Dec 21 12:32	0°ಕ			15009 Nov 27 19:18	0° ∡	
morning set	15008 Dec 27 05:13	11° る 44'40		asc. node	15009 Dec 05 01:53	12° ∡ 59'35	
				morning set	15009 Dec 11 13:40	26° ∡ ¹09'57	
superior conj	15009 Jan 02 23:15	26° る 38'40	1°37'59		15009 Dec 13 08:21	0°₹	
minimum elong	15009 Jan 02 23:17	26° る 38'50	1°38'54				
max. Earth dist.	15009 Jan 04 00:26	28° る 58'39	1.31479 AU	superior conj	15009 Dec 18 10:47	11° る 18'46	1°35'12
	15009 Jan 04 11:31	0° ≈		minimum elong	15009 Dec 18 09:48	11° る 13'12	1°36'07
evening rise	15009 Jan 09 23:52	11° ≈ 55'43		max. Earth dist.	15009 Dec 18 08:23	11° පි 05'17	1.31089 AU
	15009 Jan 19 06:38	0° ∀		evening rise	15009 Dec 25 05:17	26° ප 14'56	
desc. node	15009 Jan 19 17:09	0° ¥ 46'51			15009 Dec 26 23:51	0° ≈	
	15009 Feb 09 07:06	$0^{\circ}\Upsilon$		desc. node	15010 Jan 06 13:55	20°≈03'53	
evening max el	15009 Feb 10 23:58	1° Y 41'23	27°27'43		15010 Jan 12 21:59	0° ₩	
retrograde	15009 Feb 24 23:05	9° Υ '02'54		evening max el	15010 Jan 24 02:29	13° ¥ 29'48	26°47'15
evening set	15009 Mar 03 19:04	6° Y ′53′25		retrograde	15010 Feb 07 02:14	20° ¥ 41'34	
min. Earth dist.	15009 Mar 07 13:55	4° Υ 01'39	0.61363 AU	evening set	15010 Feb 13 15:42	18°) €53'50	
inferior conj	15009 Mar 10 16:32	1° Υ 14'16		min. Earth dist.	15010 Feb 17 16:22		0.59139 AU
minimum elong	15009 Mar 10 20:17	1° Υ 05'51		inferior conj	15010 Feb 20 21:07	13°) (45'34	
minimum ciong	15009 Mar 12 02:06	30°R ₩	1 45 04	minimum elong	15010 Feb 21 04:15	13° X 3334	
asc. node	15009 Mar 16 02:09	27° ₩ 05'52		morning rise	15010 Feb 28 20:09	9° ₩ 08'35	3 00 19
morning rise	15009 Mar 18 00:37	26°\(\)16'18		direct	15010 Mar 02 20:08	8° X 54'03	
direct		25°\(\)\(\)\(\)\(\)		asc. node		8° X 54'08	
	15009 Mar 20 04:19	25 K 36 24 29° K 25'17	17051102		15010 Mar 02 23:35	8 ★3408 12°¥45'13	10014100
morning max el	15009 Mar 27 02:23		1/-3102	morning max el	15010 Mar 10 14:44	12°π45°13 0° Υ	18°14'28
	15009 Mar 27 16:06	0°Υ 22°Ω46140			15010 Mar 22 04:15		
morning set	15009 Apr 11 18:29	23° Y 46'48		morning set	15010 Mar 26 06:46	7° Ƴ 38'57	
	15009 Apr 15 05:40	0°8					
desc. node	15009 Apr 17 19:15	4° 8 33'32		superior conj	15010 Apr 04 20:21	25° Y °26′27	
				minimum elong	15010 Apr 04 20:12	25° Y ′25'49	0°01'52
superior conj	15009 Apr 22 17:46	13° 8 08'48		behind sun begin	15010 Apr 04 12:46	24° Y ′52'10	
minimum elong	15009 Apr 22 14:11	12° 8 53'29		behind sun end	15010 Apr 05 03:39	25° Y 59'23	
max. Earth dist.	15009 Apr 30 00:12		1.43329 AU	desc. node	15010 Apr 04 15:50	25° Y ′06′04	
	15009 May 02 22:19	Π $\circ 0$			15010 Apr 07 09:34	9° 8	
evening rise	15009 May 06 16:13	5° Ⅱ 55'33		max. Earth dist.	15010 Apr 12 10:47	8° 8 44'20	1.41329 AU
	15009 May 22 18:25	0ංම		evening rise	15010 Apr 17 04:09	16° 8 34'40	
evening max el	15009 Jun 07 10:36	19° 9 56'41	21°44'09		15010 Apr 25 16:50	Π °0	
asc. node	15009 Jun 11 23:32	23° 5 43'27			15010 May 17 13:26	0 \circ \odot	
retrograde	15009 Jun 16 14:09	25° © 17'12		evening max el	15010 May 21 02:26	3° 5 49'00	23°04'04
evening set	15009 Jun 21 04:07	23°523'48		asc. node	15010 May 29 20:36	9° 5 42'53	
inferior conj	15009 Jun 26 09:58	17° © 07'33	3°07'12	retrograde	15010 May 31 10:31	9° © 53'55	
minimum elong	15009 Jun 26 09:17	17° © 09'54	3°06'11	evening set	15010 Jun 05 11:53	7° © 45'30	
min. Earth dist.	15009 Jun 26 13:03	16° © 56'47	0.68977 AU	inferior conj	15010 Jun 10 19:48	1° © 20'52	2°54'11
morning rise	15009 Jul 01 14:17	10° © 51'33		minimum elong	15010 Jun 10 18:19	1°526'01	2°52'59
direct	15009 Jul 06 12:15	8°9345'19		min. Earth dist.	15010 Jun 10 09:55	1°955'05	0.69017 AU
desc. node	15009 Jul 14 19:08	13°905'20			15010 Jun 11 19:17	30°RⅡ	9
	11 17.00					,-	

morning rise	15010 Jun 16 00:39	25° Ⅲ 12'11		morning rise	15011 May 31 12:23	9° Ⅲ 35'14	
direct	15010 Jun 20 10:07	23° Ⅲ 25′20		direct	15011 Jun 04 09:52	8° Ⅱ 08′28	
morning max el	15010 Jun 28 23:21	28° Ⅲ 20'34	21°06'24	morning max el	15011 Jun 11 22:25	12° Ⅲ 20′27	19°54'15
C	15010 Jun 30 13:26	0°ಅ		desc. node	15011 Jun 18 13:27	20° Ⅱ 10'58	
desc. node	15010 Jul 01 16:21	1° © 15'21			15011 Jun 25 13:10	0ಂತಾ	
	15010 Jul 22 09:31	$0^{\circ}\Omega$		morning set	15011 Jul 08 20:07	19° 9 59'30	
morning set	15010 Jul 29 16:08	11° Ω 10'40		morning sec	15011 Jul 15 07:10	0°Ω	
max. Earth dist.	15010 Aug 06 01:06	22°Ω55'31	1.43014 AU	max. Earth dist.	15011 Jul 19 13:16	6° Ω 41'49	1.44664 AU
max. Earm dist.	15010 Aug 00 01:00 15010 Aug 10 08:16	0°m)	1.43014 AU	max. Earm dist.	13011 Jul 19 13.10	0 6641 49	1.44004 AU
	13010 Aug 10 06.10	עוויט			15011 1-1 24 10.00	150 001105	2002150
	15010 A 12 04-26	40 m 4712 4	1027141	superior conj	15011 Jul 24 18:00	15° Ω 01'05 15° Ω 27'45	
superior conj	15010 Aug 13 04:36	4° Mp 47'24		minimum elong	15011 Jul 25 00:36		2°03'19
minimum elong	15010 Aug 13 11:56	5° m 18'33	1°36'20		15011 Aug 02 20:00	0° M)	
evening rise	15010 Aug 24 20:37	25° TQ 13'56		evening rise	15011 Aug 07 04:12	7° m 20'34	
asc. node	15010 Aug 25 21:09	27° m 03'42		asc. node	15011 Aug 12 17:44	16° Mp 46'22	
	15010 Aug 27 12:39	0∘ ⊽			15011 Aug 21 06:00	0∘ ⊽	
evening max el	15010 Sep 10 04:21	20° ≏ 48'02	18°03'28	evening max el	15011 Aug 24 18:54	4° ჲ 09'34	18°05'10
retrograde	15010 Sep 16 22:29	24° ≏ 16'29		retrograde	15011 Aug 31 04:14	7° ≏ 29'55	
evening set	15010 Sep 19 06:51	23° ≏ 51'21		evening set	15011 Sep 02 21:02	6° ≏ 52'22	
inferior conj	15010 Sep 26 04:03	18° ≏ 53'22	0°25'29	inferior conj	15011 Sep 09 03:33	1° ≏ 36′20	1°32'25
minimum elong	15010 Sep 26 04:51	18° ≏ 51'28	0°25'24	minimum elong	15011 Sep 09 05:45	1° ≏ 30′26	1°31'37
desc. node	15010 Sep 27 13:02	17° ≏ 34'47			15011 Sep 10 15:18	30°R, Mp	
min. Earth dist.	15010 Sep 29 07:46	15° ≙ 55'16	0.60633 AU	min. Earth dist.	15011 Sep 11 21:30	28° m 40'23	0.62898 AU
morning rise	15010 Oct 02 23:46	13° ≏ 02'02		desc. node	15011 Sep 14 10:31	26° m 16'05	
direct	15010 Oct 09 14:37	10° ♀ 52'34		morning rise	15011 Sep 15 12:15	25° m 25'04	
morning max el	15010 Oct 23 20:49	18° ≏ 45'59	27°55'37	direct	15011 Sep 22 04:23	22° m 57'09	
	15010 Nov 02 09:00	0°M₊			15011 Oct 05 05:06	0∘ ⊽	
	15010 Nov 20 14:34	0° ⊼ 7		morning max el	15011 Oct 06 04:35	ი∘ ჲ 57'17	27°52'43
asc. node	15010 Nov 21 22:48	2° × ⁷ 37'31		morning max or	15011 Oct 27 13:01	0°M	27 32 13
morning set	15010 Nov 25 17:31	10° ₹ 18'52		asc. node	15011 Nov 08 19:36	22°M30'26	
max. Earth dist.	15010 Nov 23 17:31 15010 Dec 01 15:21	23°×7'05'07	1.31237 AU		15011 Nov 08 19:36	24°M06'12	
max. Earm dist.	13010 Dec 01 13.21	23 x ·0307	1.31237 AU	morning set		24 11600 12 0° √ 1	
	15010 D 02 21.42	259.752141	1927/20		15011 Nov 12 11:06		1 21027 ATT
superior conj	15010 Dec 02 21:42	25° 🗷 53'41	1°26'28	max. Earth dist.	15011 Nov 14 17:34	4° ₹ '49'40	1.31937 AU
minimum elong	15010 Dec 02 19:53	25° ₹ '43'34	1°27'16		1501131 15 06 06	100 310110	1011150
	15010 Dec 04 17:53	0°る		superior conj	15011 Nov 17 06:06	10° ∡ 18'19	1°11'50
evening rise	15010 Dec 09 14:17	10° ප් 41'33		minimum elong	15011 Nov 17 03:49	10° ₹ 05'50	1°12'25
	15010 Dec 19 06:37	0° ≈		evening rise	15011 Nov 24 01:03	25° ∡ 11'16	
desc. node	15010 Dec 24 10:46	8° ≈ 41'53			15011 Nov 26 07:18	0°ಕ	
evening max el	15011 Jan 05 20:44		25°33'50	desc. node	15011 Dec 11 07:44	26° る 26'48	
	15011 Jan 13 16:21	0° ∀			15011 Dec 14 01:41	0° ≈	
retrograde	15011 Jan 19 18:17	1° ∺ 25'14		evening max el	15011 Dec 18 08:00	4° ≈ 38'23	23°57'23
evening set	15011 Jan 25 16:04	0°) €05'07		retrograde	15011 Dec 31 21:04	11° ≈ 21'55	
	15011 Jan 25 20:40	30° R ≈		evening set	15012 Jan 05 17:21	10° ≈ 30'53	
min. Earth dist.	15011 Jan 30 09:23	27° ≈ 25'22	0.57068 AU	min. Earth dist.	15012 Jan 11 19:25	7° ≈ 32'08	0.55446 AU
inferior conj	15011 Feb 02 05:43	25° ≈ 29'37	-4°36'39	inferior conj	15012 Jan 13 17:34	6° ≈ 23'03	-5°41'13
minimum elong	15011 Feb 02 14:54	25° ≈ 14′03	4°33'30	minimum elong	15012 Jan 14 00:03	6° ≈ 13′20	5°39'28
morning rise	15011 Feb 10 16:32	21° ≈ 14'22		morning rise	15012 Jan 22 08:28	2° ≈ 26′20	
direct	15011 Feb 12 18:05	21° ≈ 01'30		direct	15012 Jan 24 20:41	2° ≈ 10′22	
asc. node	15011 Feb 17 21:02	22° ≈ 26′07		morning max el	15012 Feb 04 09:44	7° ≈ 15'43	20°06'12
morning max el	15011 Feb 21 18:33	25° ≈ 25'45	18°58'55	asc. node	15012 Feb 04 18:25	7° ≈ 37'01	
C	15011 Feb 25 16:17	0°) €			15012 Feb 19 04:44	0°) €	
morning set	15011 Mar 10 05:27	21°) 57'44		morning set	15012 Feb 22 11:00	6°) €33'06	
morning sec	15011 Mar 14 07:20	0°Υ		morning sec	13012100 22 11.00	0 7(33 00	
	13011 1411 11 07.20	0 1		superior conj	15012 Mar 01 04:19	22°)(17'47	0°57'25
superior conj	15011 Mar 18 17:20	8° Y 33'30	0°31'06	minimum elong	15012 Mar 01 04:15	22°\(\)\(\)\(\)\(\)	0°57'15
minimum elong	15011 Mar 18 19:13	8° Υ 42'28	0°30'44	minimum clong	15012 Mar 05 02:22	22 γ (30 30	0 37 13
		15° Υ 39'48	0 30 44	may Earth dist		3° Υ 38'00	1.36835 AU
desc. node	15011 Mar 22 12:22		1 20001 ATT	max. Earth dist.	15012 Mar 07 00:07	6° Υ 11'19	1.30633 AU
max. Earth dist.	15011 Mar 25 17:23	21° Υ 28'11	1.39081 AU	desc. node	15012 Mar 08 08:53		
evening rise	15011 Mar 29 13:21	28° Y ′09'15		evening rise	15012 Mar 10 18:12	10° Ƴ 33'29	
	15011 Mar 30 15:24	0° B			15012 Mar 22 07:18	0° B	
	15011 Apr 19 04:03	0°Ⅱ 15°Ⅱ	2.402.712.7		15012 Apr 13 15:48	0°II	0.500.015
evening max el	15011 May 03 16:12	17° Ⅱ 42'44	24°25'02	evening max el	15012 Apr 15 05:48	1° Ⅱ 36′26	25°39'56
retrograde	15011 May 15 03:34	24° ∏ 25'41		retrograde	15012 Apr 27 16:05	8° Ⅱ 46'21	
asc. node	15011 May 16 17:46	24° Ⅱ 14'44		asc. node	15012 May 02 15:01	7° Ⅱ 05'42	
evening set	15011 May 20 16:25	22° I 105'09		evening set	15012 May 03 16:05	6° Ⅱ 17'32	
min. Earth dist.	15011 May 25 05:43	16° Ⅱ 51′29	0.68583 AU	min. Earth dist.	15012 May 07 22:20	1° Ⅱ 39'59	0.67691 AU
inferior conj	15011 May 26 04:21	15° ∏ 35′20	2°30'47	inferior conj	15012 May 09 09:43	29° 8 47'00	1°56'36
minimum elong	15011 May 26 02:20	15° Ⅱ 42'10	2°29'23	minimum elong	15012 May 09 07:34	29° 8 53'53	1°55'09

	15012 May 09 05:40	30°R ∀		morning rise	15013 Apr 29 08:08	8° 8 11'29	
morning rise	15012 May 14 23:35	23° 8 56'48		direct	15013 May 02 08:13	7° 8 21'26	
direct	15012 May 18 09:54	22° 8 49'23		morning max el	15013 May 08 17:35	10° 8 43'13	18°16'19
morning max el	15012 May 25 04:52	26° 8 29'43	18°57'01	desc. node	15013 May 22 07:19	29° 8 33'33	
Č	15012 May 28 08:53	0° I I			15013 May 22 14:00	0°II	
desc. node	15012 Jun 04 10:26	9° Ⅱ 40′13		morning set	15013 May 28 09:29	9° Ⅱ 15'17	
greatest brilliancy	15012 Jun 07 12:50	14° Ⅱ 17'39	-0.7m	C	15013 Jun 10 12:17	0°ഇ	
morning set	15012 Jun 17 03:49	29° Ⅱ 04′26					
	15012 Jun 17 18:10	0ංම		superior conj	15013 Jun 12 19:27	3° © 35'41	-2°04'54
max. Earth dist.	15012 Jul 01 06:46	21° © 01'54	1.45673 AU	minimum elong	15013 Jun 12 12:42	3° 5 09'19	2°05'32
				max. Earth dist.	15013 Jun 14 03:12	5° 5 39'39	1.45937 AU
superior conj	15012 Jul 03 10:55	24°526'11	-2°13'54	evening rise	15013 Jun 28 20:15	28°534'23	
minimum elong	15012 Jul 03 11:28	24°5528'24	2°14'51		15013 Jun 29 18:14	$0^{\circ}\Omega$	
	15012 Jul 06 23:42	0 $^{\circ}\Omega$		greatest brilliancy	15013 Jul 09 10:09	14° Ω 57'03	-0.8m
evening rise	15012 Jul 18 12:29	18° Ω 27'18		asc. node	15013 Jul 16 11:07	25° Ω 11'15	
	15012 Jul 25 15:59	0° m			15013 Jul 20 07:34	0° m)	
asc. node	15012 Jul 29 14:22	6° Mp 11′00		evening max el	15013 Jul 21 19:31	1° m)35'15	19°01'35
evening max el	15012 Aug 07 08:52	17° m 47'36	18°24'48	retrograde	15013 Jul 28 14:50	5° m 19'50	
retrograde	15012 Aug 13 18:49	21° m 13'26		evening set	15013 Aug 01 01:51	4° m 10'35	
evening set	15012 Aug 16 20:32	20° m 20'49			15013 Aug 05 07:12	30°R Ω	
inferior conj	15012 Aug 22 15:53	14° m 48'43	2°19'39	inferior conj	15013 Aug 06 13:35	28° Ω 24'10	2°49'57
minimum elong	15012 Aug 22 18:13	14° Mp 41'47	2°18'42	minimum elong	15013 Aug 06 15:21	28° Ω 18'32	2°49'04
min. Earth dist.	15012 Aug 24 20:36	12° m 12'55	0.64954 AU	min. Earth dist.	15013 Aug 08 04:01	26° Ω 21'16	0.66656 AU
morning rise	15012 Aug 28 14:35	8° Mp 26'44		morning rise	15013 Aug 12 04:07	21° Ω 58′26	
desc. node	15012 Aug 31 08:02	6° Mp 41'22		direct	15013 Aug 18 07:50	19° Ω 20'56	
direct	15012 Sep 04 02:31	5° Mp 49'29	27017117	desc. node	15013 Aug 18 05:30	19° Ω 20'58	26011112
morning max el	15012 Sep 17 15:10	13° Mp 44'28 0° <u>₽</u>	27°15'16	morning max el	15013 Aug 31 02:35	26° Ω 57'14	26°11'12
	15012 Sep 30 19:27 15012 Oct 19 04:31	0° M			15013 Sep 02 22:57	0ം ⊽ 0ംൂമ	
marning sat	15012 Oct 19 04.31 15012 Oct 23 02:12	0 แน 7° M L24'54		maming got	15013 Sep 24 10:31 15013 Oct 06 01:08	0 <u>₽</u> 20° ₽ 08'23	
morning set asc. node	15012 Oct 25 02.12	12°M32'36		morning set max. Earth dist.	15013 Oct 00 01.08 15013 Oct 09 20:15	20 ≗ 08 23 27° £ 21'16	1.34977 AU
max. Earth dist.	15012 Oct 23 10:19 15012 Oct 27 11:42	16°M13'16	1.33196 AU	max. Earth dist.	15013 Oct 09 20:13	0°M	1.349// AO
max. Earth dist.	13012 Oct 27 11.42	10 11613 10	1.33190 AU	asc. node	15013 Oct 11 04:42 15013 Oct 12 12:58	2°M40'13	
superior conj	15012 Oct 31 09:47	24°M26'04	0°51'16	ase. node	13013 Oct 12 12.30	2 110-10 13	
minimum elong	15012 Oct 31 07:35	24°M14'22	0°51'38	superior conj	15013 Oct 15 06:20	8°ML11'10	0°24'58
minimum crong	15012 Nov 03 00:05	0° √	0 3130	minimum elong	15013 Oct 15 04:58	8°ML04'10	0°25'14
evening rise	15012 Nov 07 11:42	9° ∡ ³38'36		evening rise	15013 Oct 22 20:21	23°M59'12	
<i>8</i>	15012 Nov 17 22:21	0°ප		<i>y</i>	15013 Oct 25 18:38	0° ∡ ¹	
desc. node	15012 Nov 27 04:49	12° ප 58'30		evening max el	15013 Nov 10 14:16	24° ₹ 56′28	20°42'17
evening max el	15012 Nov 28 18:38	14° ප 36'08	22°14'36	•	15013 Nov 14 02:01	27° ∡ 52'58	
retrograde	13012 NOV 20 10.30			desc. node	13013 NOV 14 02.01	Z/ X 3Z 30	
retrograde	15012 Nov 28 18:38 15012 Dec 11 11:20	20° ප 53'16	22 1130	desc. node	15013 Nov 14 02.01 15013 Nov 18 06:58	27 メ ・32 38	
evening set			22 1130	retrograde			
-	15012 Dec 11 11:20	20° ප් 53'16			15013 Nov 18 06:58	0°ჳ	
evening set	15012 Dec 11 11:20 15012 Dec 14 23:53	20° ප් 53'16 20° ප් 25'55	0.54550 AU	retrograde	15013 Nov 18 06:58 15013 Nov 21 21:40	0°る 0°る33'49	
evening set min. Earth dist.	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18	20°ප්53'16 20°ප්25'55 16°ප්49'20	0.54550 AU -5°59'21	retrograde	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24	0°る 0°る33'49 0°る19'42	-5°16'43
evening set min. Earth dist. inferior conj	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07	20°පි53'16 20°පි25'55 16°පි49'20 16°පි32'47	0.54550 AU -5°59'21	retrograde evening set	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59	0°る 0°る33'49 0°る19'42 30°Rメ	-5°16'43 5°13'48
evening set min. Earth dist. inferior conj minimum elong	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07	20° ්ට 53'16 20° ්ට 25'55 16° ට 49'20 16° ට 32'47 16° ට 35'35	0.54550 AU -5°59'21	retrograde evening set inferior conj	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22	0°る 0°る33'49 0°る19'42 30°Rメ 26°メ26'04	
evening set min. Earth dist. inferior conj minimum elong morning rise	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23	20°පි53'16 20°පි25'55 16°පි49'20 16°පි32'47 16°පි35'35 12°පි45'37	0.54550 AU -5°59'21	retrograde evening set inferior conj minimum elong	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08	0°중 0°중33'49 0°중19'42 30°Ŗ코 26°코26'04 26°코39'21 25°코47'50 22°코30'27	5°13'48
evening set min. Earth dist. inferior conj minimum elong morning rise direct	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45	20°පි53'16 20°පි25'55 16°පි49'20 16°පි32'47 16°පි35'35 12°පි45'37 12°පි20'16	0.54550 AU -5°59'21 5°58'18	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56	0°පි33'49 0°පි19'42 30°8* 26° \$\frac{2}{2}6'04 26° \$\frac{3}{2}9'21 25° \$\frac{4}{4}7'50 22° \$\frac{3}{2}30'27 21° \$\frac{4}{2}9'20	5°13'48
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08	20°♂53'16 20°♂25'55 16°♂49'20 16°♂32'47 16°♂35'35 12°♂45'37 12°♂20'16 18°♂08'44 24°♂09'28 0°≈	0.54550 AU -5°59'21 5°58'18	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23	0°중33'49 0°중19'42 30°8째 26°¾26'04 26°¾39'21 25°¾47'50 22°¾30'27 21°¾49'20 28°록17'11	5°13'48
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42	20°る53'16 20°る25'55 16°る49'20 16°る32'47 16°る35'35 12°る45'37 12°る20'16 18°る08'44 24°る09'28 0°≈ 21°≈16'13	0.54550 AU -5°59'21 5°58'18	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27	0°중33'49 0°중19'42 30°₨₰ 26°₰26'04 26°₰3'9'21 25°₰47'50 22°₰30'27 21°₰49'20 28°₰17'11 0°중	5°13'48 0.54559 AU
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08	20°♂53'16 20°♂25'55 16°♂49'20 16°♂32'47 16°♂35'35 12°♂45'37 12°♂20'16 18°♂08'44 24°♂09'28 0°≈	0.54550 AU -5°59'21 5°58'18	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01	0°♂33'49 0°♂33'49 0°♂19'42 30°₨ぷ 26°ぷ26'04 26°ぷ39'21 25°ぷ47'50 22°ぷ30'27 21°ぷ49'20 28°ぷ17'11 0°♂ 11°♂45'48	5°13'48 0.54559 AU
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光	0.54550 AU -5°59'21 5°58'18 21°36'14	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35	0°♂33'49 0°♂33'49 0°♂19'42 30°₹₰ 26°₰26'04 26°₰39'21 25°₰47'50 22°₰30'27 21°₰49'20 28°₰17'11 0°♂ 11°♂45'48 0°≈	5°13'48 0.54559 AU
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46	20°る53'16 20°る25'55 16°る49'20 16°る32'47 16°る35'35 12°る45'37 12°る20'16 18°る08'44 24°る09'28 0°≈ 21°≈16'13 0°米	0.54550 AU -5°59'21 5°58'18 21°36'14	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01	0°♂33'49 0°♂33'49 0°♂19'42 30°₨ぷ 26°ぷ26'04 26°ぷ39'21 25°ぷ47'50 22°ぷ30'27 21°ぷ49'20 28°ぷ17'11 0°♂ 11°♂45'48	5°13'48 0.54559 AU
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光 6°光27'47 6°光40'22	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24	0°云33'49 0°云19'42 30°戌ズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02	5°13'48 0.54559 AU 23°22'48
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.	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光 6°光27'47 6°光40'22 15°光30'39	0.54550 AU -5°59'21 5°58'18 21°36'14	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24	0°云33'49 0°云33'49 0°云19'42 30°戌ズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02	5°13'48 0.54559 AU 23°22'48 1°30'08
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	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光 6°光27'47 6°光40'22 15°光30'39 23°光36'39	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24	0°云33'49 0°云33'49 0°云19'42 30°戌ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42
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.	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光 6°光27'47 6°光40'22 15°光30'39 23°光36'39 26°光36'07	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 05:34 15014 Jan 28 07:14 15014 Jan 31 06:11	0°云33'49 0°云33'49 0°云19'42 30°戌ズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34	5°13'48 0.54559 AU 23°22'48 1°30'08
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	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 23 05:26 15013 Feb 25 01:52	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光 6°光27'47 6°光40'22 15°光30'39 23°光36'39 26°光36'07 0°Ƴ	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15	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.	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 05:34 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17	0°云33'49 0°云33'49 0°云19'42 30°Rズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°米	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42
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 desc. node	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Feb 25 01:52 15013 Feb 25 01:52 15013 Feb 25 01:52	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°升 6°升27'47 6°升40'22 15°升30'39 23°升36'39 26°升36'07 0°Y 0°Y	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU	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	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 02 19:08 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 05:34 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 05 00:56	0°云33'49 0°云33'49 0°云19'42 30°尽ズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°兴 7°兴10'18	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42
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 desc. node evening max el	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Mar 15 22:35 15013 Mar 28 19:40	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云20'16 18°云08'44 24°云09'28 0°≈ 21°≈16'13 0°光 6°光27'47 6°光40'22 15°光30'39 23°光36'07 0°Ƴ 0°엉 15°엉22'40	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU	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.	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 05:34 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 05 00:56 15014 Feb 10 02:01	0°云33'49 0°云33'49 0°云19'42 30°ʀズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°升 7°升10'18 16°升50'04	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42
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 desc. node evening max el retrograde	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Mar 15 22:35 15013 Mar 28 19:40 15013 Apr 10 23:09	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°※ 21°≈16'13 0°光 6°光27'47 6°光40'22 15°光30'39 23°光36'37 0°Ƴ 0°℧ 15°℧22'40 22°℧47'48	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU	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 desc. node	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 05:34 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 05 00:56 15014 Feb 10 02:01 15014 Feb 17 15:47	0°ጜ33'49 0°ጜ33'49 0°ጜ33'49 26° \$\mathref{2}\text{30°R}\text{\$\mathref{X}\$} 26° \$\mathref{X}\text{26'04} 26° \$\mathref{X}\text{30'27} 21° \$\mathref{X}\text{49'20} 28° \$\mathref{X}\text{17'11} 0°\text{5} 11°\text{545'48} 0°\text{\$\mathref{X}\$} 6°\text{\$\text{20'102}} 20°\$\text{\$\end{\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42 1.33132 AU
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 desc. node evening max el retrograde evening set	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Mar 15 22:35 15013 Mar 28 19:40 15013 Apr 10 23:09 15013 Apr 17 09:03	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°※ 21°※16'13 0°光 6°光27'47 6°光40'22 15°光30'39 23°光36'39 26°光36'07 0°℃ 0°齿 15°♂22'40 22°♂47'48 20°♂5'55	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU	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	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 01 02:01 15014 Feb 10 02:01 15014 Feb 17 15:47 15014 Mar 11 08:55	0°る33'49 0°る33'49 0°る19'42 30°₨ぷ 26°ぷ26'04 26°ぷ39'21 25°ぷ47'50 22°ぷ30'27 21°ぷ49'20 28°ぷ17'11 0°る 11°る45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°ℋ 7°升10'18 16°升50'04 0°Ƴ 28°Ŷ51'22	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42
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 desc. node evening max el retrograde evening set asc. node	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Mar 15 22:35 15013 Mar 28 19:40 15013 Apr 10 23:09 15013 Apr 17 09:03 15013 Apr 19 12:22	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°※ 21°※16'13 0°光 6°升27'47 6°升40'22 15°升30'39 23°升36'39 26°升36'07 0°Ƴ 0°℧ 15°℧22'40 22°℧47'48 20°℧15'35 18°℧17'21	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU 26°41'26	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 desc. node evening max el	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 05 00:56 15014 Feb 10 02:01 15014 Feb 17 15:47 15014 Mar 11 08:55 15014 Mar 12 14:15	0°る33'49 0°る33'49 0°る19'42 30°₨ぷ 26°ぷ26'04 26°ぷ39'21 25°ぷ47'50 22°ぷ30'27 21°ぷ49'20 28°ぷ17'11 0°る 11°る45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°升 7°升10'18 16°升50'04 0°Ƴ 28°Ƴ51'22 0°엉	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42 1.33132 AU
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 desc. node evening max el retrograde evening set asc. node min. Earth dist.	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Feb 05 20:42 15013 Feb 05 20:42 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Mar 15 22:35 15013 Mar 28 19:40 15013 Apr 10 23:09 15013 Apr 17 09:03 15013 Apr 19 12:22 15013 Apr 21 09:33	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°※ 21°※16'13 0°光 6°升27'47 6°升40'22 15°升30'39 23°升36'39 26°升36'07 0°Ƴ 0°엉 15°엉22'40 22°엉47'48 20°엉15'35 18°엉12'46	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU	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 desc. node evening max el retrograde	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 05 00:56 15014 Feb 10 02:01 15014 Feb 17 15:47 15014 Mar 11 08:55 15014 Mar 12 14:15 15014 Mar 24 23:57	0°云33'49 0°云33'49 0°云19'42 30°戌ズ 26°ズ26'04 26°ズ39'21 25°ズ47'50 22°ズ30'27 21°ズ49'20 28°ズ17'11 0°云 11°云45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°ዧ 7°ዃ10'18 16°ዃ50'04 0°Ƴ 28°♈51'22 0°엉 6°엉21'39	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42 1.33132 AU
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 desc. node evening max el retrograde evening set asc. node	15012 Dec 11 11:20 15012 Dec 14 23:53 15012 Dec 23 01:18 15012 Dec 23 13:07 15012 Dec 23 11:07 15012 Dec 31 23:23 15013 Jan 04 08:16 15013 Jan 16 09:57 15013 Jan 21 15:45 15013 Jan 25 15:08 15013 Feb 05 20:42 15013 Feb 09 23:46 15013 Feb 13 01:25 15013 Feb 13 03:50 15013 Feb 17 11:30 15013 Feb 21 15:12 15013 Feb 23 05:26 15013 Feb 25 01:52 15013 Mar 15 22:35 15013 Mar 28 19:40 15013 Apr 10 23:09 15013 Apr 17 09:03 15013 Apr 19 12:22	20°云53'16 20°云25'55 16°云49'20 16°云32'47 16°云35'35 12°云45'37 12°云20'16 18°云08'44 24°云09'28 0°※ 21°※16'13 0°光 6°升27'47 6°升40'22 15°升30'39 23°升36'39 26°升36'07 0°Ƴ 0°℧ 15°℧22'40 22°℧47'48 20°℧15'35 18°℧17'21	0.54550 AU -5°59'21 5°58'18 21°36'14 1°17'04 1°17'15 1.34800 AU 26°41'26	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 desc. node evening max el	15013 Nov 18 06:58 15013 Nov 21 21:40 15013 Nov 24 07:24 15013 Nov 25 15:59 15013 Dec 03 04:22 15013 Dec 04 06:56 15013 Dec 11 06:52 15013 Dec 15 15:58 15013 Dec 28 22:23 15013 Dec 30 15:27 15014 Jan 08 13:01 15014 Jan 18 11:35 15014 Jan 21 08:24 15014 Jan 28 07:14 15014 Jan 31 06:11 15014 Feb 01 12:17 15014 Feb 05 00:56 15014 Feb 10 02:01 15014 Feb 17 15:47 15014 Mar 11 08:55 15014 Mar 12 14:15	0°る33'49 0°る33'49 0°る19'42 30°₨ぷ 26°ぷ26'04 26°ぷ39'21 25°ぷ47'50 22°ぷ30'27 21°ぷ49'20 28°ぷ17'11 0°る 11°る45'48 0°≈ 6°≈01'02 20°≈55'10 21°≈04'08 27°≈22'34 0°升 7°升10'18 16°升50'04 0°Ƴ 28°Ƴ51'22 0°엉	5°13'48 0.54559 AU 23°22'48 1°30'08 1°30'42 1.33132 AU

	15014 Apr 04 21:29	30° ₹ Υ			15015 Feb 11 15:26	$0^{\circ}\Upsilon$	
asc. node	15014 Apr 04 21:29 15014 Apr 06 09:48	28° Y 21'44		evening max el	15015 Feb 21 19:59	11° Υ 51'01	27°35'09
	15014 Apr 06 09.48 15014 Apr 07 01:44	28 γ 21 44 27° γ 38'21	0°12'35	•		11 γ 31 01 19° γ 18'19	27 33 09
inferior conj minimum elong	15014 Apr 07 01:44 15014 Apr 07 01:22	27 γ 38 21 27° γ 39'18	0°12'33 0°12'06	retrograde evening set	15015 Mar 07 17:43 15015 Mar 14 14:09	19 1 18 19 16° Y 59'14	
transit middle	15014 Apr 07 01:22	27° Y 39'18	0°12'06	min. Earth dist.		10 γ 59 14 13° γ 55'17	0.62607 AU
	*	27° Y 44'45	0°12'06		15015 Mar 18 08:17	13° γ 35°17 11° γ ′04'51	
transit begin	15014 Apr 06 23:22			inferior conj	15015 Mar 21 06:52		
transit end	15014 Apr 07 03:23	27° Y 33'52		minimum elong	15015 Mar 21 08:50	11°Υ00'05	0°5/41
morning rise	15014 Apr 13 11:31	22°\bar{\gamma}13'40		asc. node	15015 Mar 24 07:15	8° Υ 20'01	
direct	15014 Apr 16 02:23	21° Y 38'09	1.50.5010.5	morning rise	15015 Mar 28 06:21	5°Υ56'29	
morning max el	15014 Apr 22 10:18	24° Y ′53'50	17°52'37	direct	15015 Mar 30 13:26	5° Υ 32'01	1504604
	15014 Apr 26 17:22	0°8		morning max el	15015 Apr 06 04:04	8°Υ53'13	17°46'24
desc. node	15014 May 09 04:05	19° 8 44'09			15015 Apr 20 05:37	0°8	
morning set	15014 May 09 18:55	20° 8 45'58		morning set	15015 Apr 22 04:51	3° 8 26'19	
	15014 May 15 08:39	Π \circ 0		desc. node	15015 Apr 26 00:47	10° 8 07'00	
superior conj	15014 May 23 12:48	13° Ⅱ 14'24	-1°38'10	superior conj	15015 May 04 03:07	23° 8 53'08	-1°01'29
minimum elong	15014 May 23 04:02	12° Ⅱ 39'27		minimum elong	15015 May 04 03:07	23° 8 28'36	
max. Earth dist.	15014 May 27 23:16	12 H 3927 20° H 15'57	1.45448 AU	minimum ciong	15015 May 07 20:19	0°Π	1 01 23
max. Earm dist.	15014 May 27 25.16 15014 Jun 03 05:06	20 п 13 37	1.43446 AU	mov Earth dist	•	0 <u>П</u> 4° П 35'19	1 44270 AII
				max. Earth dist.	15015 May 10 16:30		1.44270 AU
evening rise	15014 Jun 08 10:25	8°502'07	0.6	evening rise	15015 May 18 22:21	17° Ⅱ 32'19	
greatest brilliancy	15014 Jun 23 03:42	0° Ω 07'48	-0.6m		15015 May 27 03:42	0.20 0.20	21001102
_	15014 Jun 23 01:33	0 ° Ω		evening max el	15015 Jun 18 00:14	29°5518'24	21°01'02
asc. node	15014 Jul 03 07:58	13° Ω 37'47		_	15015 Jun 18 17:17	0 ° Ω	
evening max el	15014 Jul 05 00:51	15° Ω 26'18	19°54'26	asc. node	15015 Jun 20 04:54	1° Ω 19'24	
retrograde	15014 Jul 12 13:28	19° Ω 41'50		retrograde	15015 Jun 26 12:29	4° Ω 13'57	
evening set	15014 Jul 16 10:21	18° Ω 15'16		evening set	15015 Jun 30 19:57	2° Ω 30′15	
inferior conj	15014 Jul 21 17:40	12° Ω 16′04	3°06'03		15015 Jul 03 07:02	30° ₹ ∽	
minimum elong	15014 Jul 21 18:31	12° Ω 13′12	3°05'11	inferior conj	15015 Jul 06 01:37	26° © 19'48	3°09'57
min. Earth dist.	15014 Jul 22 18:00	10° Q 53′58	0.67927 AU	minimum elong	15015 Jul 06 01:29	26° © 20'15	3°09'02
morning rise	15014 Jul 27 02:16	5° Ω 51'35		min. Earth dist.	15015 Jul 06 12:24	25° 5 42'23	0.68735 AU
direct	15014 Aug 01 19:18	3° Ω 21'37		morning rise	15015 Jul 11 06:46	19° © 59'52	
desc. node	15014 Aug 05 02:57	4° Ω 03'59		direct	15015 Jul 16 11:53	17° © 43'33	
morning max el	15014 Aug 13 13:31	10° Ω 24'23	24°49'48	desc. node	15015 Jul 23 00:18	20° © 25'58	
	15014 Aug 29 03:38	0° m)		morning max el	15015 Jul 27 00:26	23° © 59'41	23°20'47
	15014 Sep 17 02:23	0∘ 亚			15015 Aug 01 08:45	$0^{\circ}\Omega$	
morning set	15014 Sep 18 07:23	2° ₽ 07'00			15015 Aug 22 12:57	0° m y	
max. Earth dist.	15014 Sep 21 20:46	8° ≏ 30'18	1.37161 AU	morning set	15015 Aug 30 16:34	13° Mp 10'30	
	-			max. Earth dist.	15015 Sep 03 18:52	20° mp 08'37	1.39543 AU
superior conj	15014 Sep 28 16:33	21° ≏ 25'42	-0°06'30		15015 Sep 09 08:08	0∘ ⊽	
minimum elong	15014 Sep 28 16:57	21° ≏ 27'40	0°06'10		•		
behind sun begin	15014 Sep 28 10:49	20° ≙ 57'40		superior conj	15015 Sep 11 12:40	4° ჲ 01'09	-0°41'36
behind sun end	15014 Sep 28 23:06	21° ≏ 57'43		minimum elong	15015 Sep 11 15:46	4° ≙ 15'29	0°41'06
asc. node	15014 Sep 29 09:35	22° ₽ 49'10		asc. node	15015 Sep 16 06:10	12° Ω 56'03	
	15014 Oct 03 00:09	0°M		evening rise	15015 Sep 20 21:49	21° ≏ 54'19	
evening rise	15014 Oct 07 00:40	8°MJ06'45		5 / 4 · · · · · · · · · · · · · · · · · ·	15015 Sep 25 03:37	0°M	
	15014 Oct 19 02:31	0° ∡ 7		evening max el	15015 Oct 06 23:28	18°ML00'05	18°39'53
evening max el	15014 Oct 24 00:14	6° ₹ 03'22	19°29'58	retrograde	15015 Oct 15 04:17	22°M08'27	10 37 33
desc. node	15014 Oct 31 23:19	10° × 44'56	1, 2, 30	evening set	15015 Oct 17 02:24	21°M55'37	
retrograde	15014 Nov 02 16:22	10° ₹ 1130		desc. node	15015 Oct 18 20:41	21°M22'43	
evening set	15014 Nov 04 14:02	10° × ³³ 43'19		inferior conj	15015 Oct 25 03:22	17°M30'24	-2°00'29
inferior conj	15014 Nov 13 05:59	6° х 43 17	3°46'50	minimum elong	15015 Oct 24 22:28	17°M39'33	
minimum elong	15014 Nov 12 20:47	6° × 57' 52' 18		min. Earth dist.	15015 Oct 24 22:28 15015 Oct 28 06:31	15°M10'51	0.57181 AU
min. Earth dist.	15014 Nov 12 20.47 15014 Nov 15 15:52	5° × 04'42	0.55493 AU	morning rise	15015 Nov 01 15:12	12°M30'10	0.37181 AU
	15014 Nov 21 01:30	2° x 14'00	0.55495 AU	direct	15015 Nov 07 15:42	12 1103010 11°M00'48	
morning rise							26941125
direct	15014 Nov 26 08:36	1° 🗷 10'57	25010150	morning max el	15015 Nov 21 21:21	18°M26'45	26°41'35
morning max el	15014 Dec 10 07:32	8° √ 11'41	25°10'59	1	15015 Dec 01 14:05	0° √ 7	
asc. node	15014 Dec 26 10:11	0°る10'17		asc. node	15015 Dec 13 07:14	19° ∡ 10'44	
	15014 Dec 26 07:50	0°る			15015 Dec 18 18:50	0°る	
morning set	15015 Jan 05 20:13	20°る41'59		morning set	15015 Dec 21 06:21	5° る 14'04	
	15015 Jan 10 02:08	0° ≈		superior conj	15015 Dec 28 01:14	20°る13'08	1037'21
gunarier con:	15015 Ion 10 14:14	504.420100	1026152				
superior conj	15015 Jan 12 14:14	5°≈32'28	1°36'53	minimum elong	15015 Dec 28 00:49	20°る10'47	1°38'28
minimum elong	15015 Jan 12 14:53	5°≈36'03	1°37'43	max. Earth dist.	15015 Dec 28 14:23	21° る 26'34	1.31240 AU
max. Earth dist.	15015 Jan 14 07:53	9°≈21'24	1.31927 AU	avanin	15016 Jan 01 11:15	0°≈ 5°2210!29	
evening rise	15015 Jan 19 20:18	21° ≈ 06'48		evening rise	15016 Jan 03 22:41	5° ≈ 19'28	
	15015 T 04 07 15	001/		J 1	15016 T 14 10 04	26022112	
desc. node	15015 Jan 24 07:16 15015 Jan 27 22:40	0° ∺ 6° ∺ 47'51		desc. node	15016 Jan 14 19:24 15016 Jan 16 22:25	26°≈22'13 0°) €	

evening max el	15016 Feb 04 02:33	24°)(08'54	27°15'00	desc. node	15016 Dec 31 16:12	15° ≈ 24'30	
evening max er	15016 Feb 12 04:18	0° Υ	27 13 00	dese. Hode	15017 Jan 10 21:27	0° \	
retrograde	15016 Feb 18 02:45	1° Y ′27'02		evening max el	15017 Jan 16 01:55		26°19'48
C	15016 Feb 23 19:52	30° ₹		retrograde	15017 Jan 30 01:05	12°) 41′54	
evening set	15016 Feb 24 20:38	29° ¥ 26′12		evening set	15017 Feb 05 09:01	11°) 05'44	
min. Earth dist.	15016 Feb 28 17:01	26°) 41′20	0.60402 AU	min. Earth dist.	15017 Feb 09 15:22	8°) 28'34	0.58222 AU
inferior conj	15016 Mar 02 21:28	23° ¥ 59′17	-2°20'45	inferior conj	15017 Feb 12 17:51	6°) 11'46	-3°48'34
minimum elong	15016 Mar 03 02:39	23°) 48′14	2°18'31	minimum elong	15017 Feb 13 02:12	5° ¥ 56′24	3°45'19
asc. node	15016 Mar 10 04:43	19° ∺ 15′09		morning rise	15017 Feb 20 22:30	1°) 43′40	
morning rise	15016 Mar 10 12:00	19° ∺ 09'51		direct	15017 Feb 22 22:24	1° ¥ 30′15	
direct	15016 Mar 12 13:31	18°) 52′46		asc. node	15017 Feb 25 02:07	1°) 46′38	
morning max el	15016 Mar 19 19:24	22° ∺ 30′18	17°58'34	morning max el	15017 Mar 03 04:31	5°) 34′25	18°30'41
	15016 Mar 25 15:29	0° Y			15017 Mar 18 13:21	0° Y	
morning set	15016 Apr 04 09:08	16° Ƴ 57'06		morning set	15017 Mar 19 02:19	1° Y 02'11	
desc. node	15016 Apr 11 21:23	0° 8 37'00				••	
	15016 Apr 11 13:07	0° 8		superior conj	15017 Mar 28 04:00	18° Y 16′10	0°13'01
				minimum elong	15017 Mar 28 04:53	18° Y ′20′18	0°12'39
superior conj	15016 Apr 14 17:05	5° 8 36'19		behind sun begin	15017 Mar 28 00:32	18° Y ′00′09	
minimum elong	15016 Apr 14 15:06	5° 8 27'40		behind sun end	15017 Mar 28 09:15	18° Y ′40′25	
max. Earth dist.	15016 Apr 22 05:41	18° 8 24'47	1.42524 AU	desc. node	15017 Mar 29 17:58	21° Y 10'30	
evening rise	15016 Apr 27 23:05	27° 8 41'15		T	15017 Apr 03 16:45	0°8	1 40204 177
	15016 Apr 29 10:12	0° Ⅱ		max. Earth dist.	15017 Apr 04 14:37	1° 8 34'51	1.40394 AU
	15016 May 19 20:27	0°95	22017127	evening rise	15017 Apr 08 20:02	8° 8 44'17 0°Ⅱ	
evening max el asc. node	15016 May 30 18:26 15016 Jun 06 01:56	13°5010'54 18°501'04	22°17'36	evening max el	15017 Apr 22 10:00 15017 May 13 09:16	0 Ⅱ 27°Ⅱ04'26	22020146
retrograde	15016 Jun 09 10:07	18°950'23		evening max er	15017 May 15 09.16 15017 May 16 14:52	27 п 04 20	23 38 40
evening set	15016 Jun 14 04:49	16°950'35		asc. node	15017 May 10 14.32 15017 May 23 23:02	3° © 25'34	
inferior conj	15016 Jun 19 11:19	10°930'38	3°02'57	retrograde	15017 May 23 25:02 15017 May 24 05:03	3°925'51	
minimum elong	15016 Jun 19 10:17	10°934'16	3°01'51	evening set	15017 May 24 03:03	1°9511'53	
min. Earth dist.	15016 Jun 19 08:57	10°938'55	0.69061 AU	evening set	15017 May 30 17:17	30°RII	
morning rise	15016 Jun 24 15:33	4°9517'26	0.07001710	min. Earth dist.	15017 Jun 03 05:32	•	0.68898 AU
direct	15016 Jun 29 08:15	2°9518'59		inferior conj	15017 Jun 03 20:49	24° I I44'52	2°45'32
morning max el	15016 Jul 08 13:50	7°9542'41	21°53'09	minimum elong	15017 Jun 03 19:04	24° I I50'53	2°44'14
desc. node	15016 Jul 08 21:33	8°902'11		morning rise	15017 Jun 09 02:43	18° Ⅱ 39'49	
	15016 Jul 25 20:14	$0^{\circ}\Omega$		direct	15017 Jun 13 07:07	17° Ⅱ 01'23	
morning set	15016 Aug 10 01:31	23° Ω 11'15		morning max el	15017 Jun 21 08:50	21° Ⅲ 36′23	20°34'01
-	15016 Aug 14 06:37	0° m		desc. node	15017 Jun 25 18:43	26° Ⅲ 33'19	
max. Earth dist.	15016 Aug 15 21:07	2° m/38'45	1.41845 AU		15017 Jun 28 11:29	0ಂಣ	
					15017 Jul 19 01:07	$0^{\circ}\Omega$	
superior conj	15016 Aug 23 14:19	15° m 47'33	-1°17'30	morning set	15017 Jul 20 12:46	2° Ω 17'25	
minimum elong	15016 Aug 23 20:26	16°M)14'18	1°16'58	max. Earth dist.	15017 Jul 29 06:19	16° Ω 02'34	1.43794 AU
	15016 Aug 31 12:10	0∘ ⊽					
asc. node	15016 Sep 02 02:45	2° ჲ 57'13		superior conj	15017 Aug 04 17:26	26° Ω 35'45	
evening rise	15016 Sep 03 08:09	5° ₽ 12'36		minimum elong	15017 Aug 05 01:02	27° Ω 07'20	1°49'09
	15016 Sep 18 17:07	0°M₊			15017 Aug 06 18:22	0° m)	
evening max el	15016 Sep 19 07:56	0° M 38′16	18°11'03	evening rise	15017 Aug 17 03:02	17° m 49'36	
retrograde	15016 Sep 26 11:26	4° ™ 17'06		asc. node	15017 Aug 19 23:19	22° m 48'11	
evening set	15016 Sep 28 15:34	3°M57'26			15017 Aug 24 03:47	0∘ ⊽	10001150
desc. node	15016 Oct 04 18:06	0°M11'51		evening max el	15017 Sep 02 21:19		18°01'53
infonia	15016 Oct 04 23:43	30° ₹ Ω	0000100	retrograde	15017 Sep 09 10:25	17° ♀ 09'57 16° ♀ 39'49	
inferior conj	15016 Oct 05 22:32	29° £ 10'49		evening set	15017 Sep 11 22:21		0956129
minimum elong min. Earth dist.	15016 Oct 05 21:45 15016 Oct 09 04:56	29° £ 12'32 26° £ 21'08		inferior conj minimum elong	15017 Sep 18 12:50 15017 Sep 18 14:26	11° ♀ 33'32 11° ♀ 29'32	
morning rise	15016 Oct 13 00:35	20 = 21 08 23° £ 36'05	0.39322 AU	min. Earth dist.	15017 Sep 18 14:20 15017 Sep 21 12:52		0.61613 AU
direct	15016 Oct 19 12:11	23 ⊆ 30 03 21° ⊆ 40′23		desc. node	15017 Sep 21 12:32 15017 Sep 21 15:35	8° £ 27'47	0.01013 AU
morning max el	15016 Oct 19 12.11 15016 Nov 02 19:07	21 △ 40 23 29° △ 24'51	27°39'46	morning rise	15017 Sep 21 15.55 15017 Sep 25 03:50	8 2 2747 5° 2 32'35	
morning max cr	15016 Nov 03 09:17	0°M	27 37 40	direct	15017 Oct 01 19:53	3° ⊆ 14'38	
	15016 Nov 24 13:18	0° ⊼ ¹		morning max el	15017 Oct 16 00:05	11° ⊆ 11'22	27°59'04
asc. node	15016 Nov 29 04:11	8° × ⁷ 37'39			15017 Oct 10 00:05	0°M	_, J) UT
morning set	15016 Dec 04 13:03	19° ∡ ′33'10		asc. node	15017 Nov 16 01:02	28°M22'50	
<i>3</i>	15016 Dec 09 08:20	0°ਰ			15017 Nov 16 20:26	0° ∡ 7	
max. Earth dist.	15016 Dec 10 22:25	3°₹32'06	1.31086 AU	morning set	15017 Nov 18 14:17	3° ∡ ³33'34	
				max. Earth dist.	15017 Nov 24 04:01	15° ∡ ¹27'30	1.31473 AU
superior conj	15016 Dec 11 12:43	4° る 52'05	1°32'13				
minimum elong	15016 Dec 11 11:21	4° る 44'22	1°33'06	superior conj	15017 Nov 25 22:46	19° ∡ °23′05	1°20'59
evening rise	15016 Dec 18 05:53	19° る 43'06		minimum elong	15017 Nov 25 20:42	19° ∡ °11'38	1°21'41
	15016 Dec 23 04:50	0° ≈			15017 Nov 30 17:43	ರ∘ರ	

	15017 D 02 15.51	4° る 11'43			15010 N 17 02-40	100.741103	
evening rise	15017 Dec 02 15:51			evening rise	15018 Nov 17 02:48	18°♂41'02 0°舌	
1 1-	15017 Dec 16 03:47	0°≈ 3°≈ • 41150		JJ.	15018 Nov 22 13:58		
desc. node	15017 Dec 18 13:06	3°≈41'59	24054120	desc. node	15018 Dec 05 10:07	20°る58'29	22012100
evening max el	15017 Dec 28 16:41	16° ≈ 10'17	24°54'38	evening max el	15018 Dec 10 02:17	26° る 11'25	23°13'08
retrograde	15018 Jan 11 11:10	23° ≈ 03'44		_	15018 Dec 14 19:39	0° ≈	
evening set	15018 Jan 16 23:36	21° ≈ 55'54		retrograde	15018 Dec 23 08:34	2° ≈ 46′07	
min. Earth dist.	15018 Jan 22 04:38	19° ≈ 10'39	0.56310 AU	evening set	15018 Dec 27 15:35	2°≈06'07	
inferior conj	15018 Jan 24 17:23	17° ≈ 33'38	-5°08'06		15019 Jan 01 12:28	30°Ŗる	
minimum elong	15018 Jan 25 02:12	17° ≈ 19'32	5°05'23	min. Earth dist.	15019 Jan 03 12:21	28° る 53'22	0.54960 AU
morning rise	15018 Feb 02 07:07	13° ≈ 27'10		inferior conj	15019 Jan 04 21:13	28° る 05'57	-5°55'58
direct	15018 Feb 04 12:09	13° ≈ 13'32		minimum elong	15019 Jan 05 00:34	28° පි 01'06	5°54'49
asc. node	15018 Feb 11 23:31	16° ≈ 01'55		morning rise	15019 Jan 13 11:04	24° る 15'14	
morning max el	15018 Feb 14 03:19	17° ≈ 54'01	19°24'47	direct	15019 Jan 16 06:53	23° る 56'16	
	15018 Feb 22 23:45	0° ∀		morning max el	15019 Jan 27 12:16	29° る 19'59	20°42'03
morning set	15018 Mar 03 04:16	15° ¥ 29'00		morning max or	15019 Jan 28 04:28	0°≈	20 12 03
morning sec	15018 Mar 10 10:53	0° Υ		asc. node	15019 Jan 29 20:53	0 ~ 1° ≈ 49'41	
	13016 Wiai 10 10.33	0 1					
				morning set	15019 Feb 15 11:49	0°) €08'14	
superior conj	15018 Mar 11 07:25	1° Y 40′20	0°43'05		15019 Feb 15 10:14	0° ∀	
minimum elong	15018 Mar 11 09:45	1° Y 51'40	0°42'46				
desc. node	15018 Mar 16 14:30	11° Ƴ 43'45		superior conj	15019 Feb 22 23:07	15°) 36′51	1°06'35
max. Earth dist.	15018 Mar 17 20:57	14° Ƴ 03′27	1.38108 AU	minimum elong	15019 Feb 23 01:43	15° ∺ 50′09	1°06'33
evening rise	15018 Mar 21 13:51	20° Y '40'24		max. Earth dist.	15019 Feb 28 04:49	26°) 02′09	1.35921 AU
	15018 Mar 27 01:42	0° ႘			15019 Mar 02 06:38	$0^{\circ}\mathbf{Y}$	
	15018 Apr 16 10:33	0°II		desc. node	15019 Mar 03 11:02	2°Υ12'56	
evening max el	15018 Apr 25 22:43	10° ∏ 58'29	24°58'04	evening rise	15019 Mar 04 01:57	3°Y22'00	
retrograde	15018 May 07 20:16	17° Ⅱ 54'19	24 30 04	evening rise	15019 Mar 20 01:03	0°8	
•	•						26000117
asc. node	15018 May 10 20:14	17° Ⅱ 16'06		evening max el	15019 Apr 08 12:12	24° 8 49'11	26°08'17
evening set	15018 May 13 14:06	15° Ⅱ 29'26			15019 Apr 14 21:12	Π $^{\circ}0$	
min. Earth dist.	15018 May 18 00:07	10° Ⅲ 31'34	0.68257 AU	retrograde	15019 Apr 21 06:44	2° Ⅱ 07'57	
inferior conj	15018 May 19 04:16	8° Ⅱ 58'47	2°17'39		15019 Apr 26 23:29	30° ₹ 8	
minimum elong	15018 May 19 02:08	9° Ⅱ 05'51	2°16'12	evening set	15019 Apr 27 11:10	29° 8 36'44	
morning rise	15018 May 24 14:27	3° Ⅲ 03′01		asc. node	15019 Apr 27 17:32	29° 8 23'17	
direct	15018 May 28 07:05	1° Ⅱ 44'46		min. Earth dist.	15019 May 01 14:41	25° 8 14'19	0.67164 AU
morning max el	15018 Jun 04 11:13	5° Ⅱ 41'31	19°28'05	inferior conj	15019 May 03 07:37	23° 8 07'20	1°38'38
desc. node	15018 Jun 12 15:46	15° Ⅱ 44'50		minimum elong	15019 May 03 05:35	23° 8 13'39	1°37'16
greatest brilliancy	15018 Jun 17 02:14	22° I 106'58	-0.7m	morning rise	15019 May 09 00:48	17° 8 22'01	1 37 10
greatest orimancy	15018 Jun 22 08:54	0°95	-0.7111	direct	15019 May 12 06:31	16° 8 22'29	
					•		10027144
morning set	15018 Jun 29 15:52	11° © 07'11		morning max el	15019 May 18 20:37	19° 8 53'42	18°37'44
	15018 Jul 11 19:35	0 ° Ω			15019 May 26 21:14	Π $^{\circ}0$	
max. Earth dist.	15018 Jul 11 21:28	0° Ω 07'22	1.45177 AU	desc. node	15019 May 30 12:42	5° Ⅱ 25'18	
				morning set	15019 Jun 09 07:14	20° Ⅱ 35'32	
superior conj	15018 Jul 15 21:19	6° Ω 26′50	-2°09'52		15019 Jun 15 07:35	0 \circ ∞	
minimum elong	15018 Jul 16 01:57	6° Ω 45'18	2°10'33	max. Earth dist.	15019 Jun 24 16:05	14° © 35'31	1.45869 AU
evening rise	15018 Jul 30 01:21	29° Ω 33'09					
	15018 Jul 30 07:49	0° m)		superior conj	15019 Jun 25 08:42	15°5540'21	-2°12'35
asc. node	15018 Aug 06 19:58	12° m 24'44		minimum elong	15019 Jun 25 05:51	15° © 29'15	2°13'30
evening max el	15018 Aug 17 11:59	-	18°11'15		15019 Jul 04 12:02	$0^{\circ}\Omega$	
o voiming main or	15018 Aug 21 04:19	0∘ ⊽	10 11 10	evening rise	15019 Jul 10 23:00	10° Ω 13'37	
retrograde	15018 Aug 23 20:35	ი∘ ჲ 37'58		greatest brilliancy	15019 Jul 18 07:31	21° Ω 54'11	-0.9m
•	•	29° m 54'22		greatest oriniancy	15019 Jul 23 13:31	0° Mp	-0.7111
evening set	15018 Aug 26 17:03			1		•	
	15018 Aug 26 12:25	30°R, M)	1054140	asc. node	15019 Jul 24 16:40	1° m/40'21	10020122
inferior conj	15018 Sep 01 18:22	24° Mp 31'04	1°54'40	evening max el	15019 Aug 01 00:49	10° m 59'42	18°38'23
minimum elong	15018 Sep 01 20:44	24° Mp 24'23	1°53'46	retrograde	15019 Aug 07 13:55	14° Mp 32'12	
min. Earth dist.	15018 Sep 04 06:52	21° m)41'47	0.63807 AU	evening set	15019 Aug 10 19:25	13°My32'51	
morning rise	15018 Sep 07 22:37	18° m 13'54		inferior conj	15019 Aug 16 11:08	7° № 54'37	2°34'20
desc. node	15018 Sep 08 13:04	17° m 47'07		minimum elong	15019 Aug 16 13:17	7° Mp48′00	2°33'25
direct	15018 Sep 14 13:20	15° m) 41'04		min. Earth dist.	15019 Aug 18 09:53	5° m 31'14	0.65726 AU
morning max el	15018 Sep 28 09:42	23° m 40'59	27°40'34	morning rise	15019 Aug 22 06:05	1° m 30'04	
<i>3</i> 2-	15018 Oct 04 01:45	0∘ ⊽		<i>5</i>	15019 Aug 24 09:34	30°R Ω	
	15018 Oct 24 03:42	0° ™		desc. node	15019 Aug 26 10:34	29° Ω 09'11	
morning set		บาน 17° M L09'58		direct	_		
morning set	15018 Nov 02 07:43			uncei	15019 Aug 28 14:55	28° Ω 51'22	
asc. node	15018 Nov 02 21:50	18°M20'38	1.00411 : **		15019 Sep 02 05:03	0° m/y	26050126
max. Earth dist.	15018 Nov 07 03:18	27° M .04'20	1.32411 AU	morning max el	15019 Sep 10 20:58	6° m 41'05	26°50'38
	15018 Nov 08 12:21	0° ∡ ¹			15019 Sep 28 21:27	0∘ ⊽	
					15019 Oct 16 11:12	0°M₊	
superior conj	15018 Nov 10 05:26	3° ∡ ¹41'17	1°03'50	morning set	15019 Oct 16 14:27	0°M15'31	
minimum elong	15018 Nov 10 03:06	3° ∡ °28'41	1°04'18	max. Earth dist.	15019 Oct 20 17:11	8°M19'17	1.33893 AU

asc. node	15019 Oct 20 18:33	8°M26'10		superior conj	15020 Oct 07 23:06	1° M .14'29	0°12'13
				minimum elong	15020 Oct 07 22:21	1° M 10'47	0°12'29
superior conj	15019 Oct 25 06:28	17° M 40'49	0°40'48	behind sun begin	15020 Oct 07 18:23	0°M50'50	
minimum elong	15019 Oct 25 04:31	17° M 30'36	0°41'06	behind sun end	15020 Oct 08 02:20	1° M 30'45	
	15019 Oct 31 01:43	0° ∡ ¹		evening rise	15020 Oct 15 20:00	17°M22'29	
evening rise	15019 Nov 01 12:53	3° ∡ ¹06′27			15020 Oct 22 05:07	0° ∡ ¹	
	15019 Nov 16 08:45	8°0		evening max el	15020 Nov 02 17:31	16° ∡ ¹55'18	20°08'51
evening max el	15019 Nov 21 15:49	6° ප 15'41	21°33'18	desc. node	15020 Nov 08 04:29	20° ∡ 58′26	
desc. node	15019 Nov 22 07:15	6° る 52'41		retrograde	15020 Nov 13 07:59	22° ∡ 12′06	
retrograde	15019 Dec 03 20:06	12° る 17'26		evening set	15020 Nov 15 10:51	22° ∡ ¹00′26	
evening set	15019 Dec 06 19:27	11° る 57'19		inferior conj	15020 Nov 24 07:22	18° ∡ '03'15	-4°42'39
inferior conj	15019 Dec 15 13:18	8° る 05'49	-5°48'35	minimum elong	15020 Nov 23 21:16	18° ∡ 18'18	4°38'57
minimum elong	15019 Dec 15 07:31	8° ප 13'55	5°46'56	min. Earth dist.	15020 Nov 26 00:52	17° ∡ ¹01'18	0.54855 AU
min. Earth dist.	15019 Dec 15 18:12	7° る 58'56	0.54435 AU	morning rise	15020 Dec 02 06:50	13° ∡ 757'51	
morning rise	15019 Dec 23 20:10	4° る 17'10		direct	15020 Dec 07 02:05	13° ∡ 07'49	
direct	15019 Dec 27 15:12	3° ₹ 45'51		morning max el	15020 Dec 20 16:32	19° ∡ 50′25	24°09'38
morning max el	15020 Jan 09 06:52	9° る 52'39	22°20'13		15020 Dec 29 04:57	0°₹	
asc. node	15020 Jan 16 18:12	18° る 52'06		asc. node	15021 Jan 02 15:26	6° ප 51'01	
	15020 Jan 23 11:59	0° ≈		morning set	15021 Jan 14 10:37	29° る 37'14	
morning set	15020 Jan 30 22:39	14° ≈ 53′18			15021 Jan 14 14:52	0° ≈	
superior conj	15020 Feb 06 23:36	29° ≈ 55'59	1°23'23	superior conj	15021 Jan 21 05:57	14° ≈ 28′30	1°33'44
minimum elong	15020 Feb 07 01:45	0°) €07'20	1°23'45	minimum elong	15021 Jan 21 07:12	14° ≈ 35'19	1°34'26
	15020 Feb 07 00:22	0° ∀		max. Earth dist.	15021 Jan 23 16:56	19° ≈ 47'47	1.32566 AU
max. Earth dist.	15020 Feb 10 18:56	7° ¥ 52′22	1.34035 AU	evening rise	15021 Jan 28 19:05	0°) 24′56	
evening rise	15020 Feb 15 04:52	16°) 40′13			15021 Jan 28 14:10	0° ∀	
desc. node	15020 Feb 18 07:36	22°) (34′21		desc. node	15021 Feb 04 04:13	12°) 42′23	
	15020 Feb 22 10:39	0° Y			15021 Feb 14 11:02	0° Y	
	15020 Mar 13 10:52	9° 8		evening max el	15021 Mar 03 14:50	21° Y 48'35	27°31'26
evening max el	15020 Mar 21 02:00	8° 8 29'55	27°01'49	retrograde	15021 Mar 17 09:14	29° Ƴ 17'41	
retrograde	15020 Apr 03 11:27	15° 8 58'56		evening set	15021 Mar 24 04:21	26° Ƴ 52'04	
evening set	15020 Apr 10 00:42	13° 8 27'14		min. Earth dist.	15021 Mar 27 23:28	23° Y 33'08	0.63809 AU
asc. node	15020 Apr 13 14:54	10° 8 01'04		inferior conj	15021 Mar 30 16:21	20° Ƴ 45'35	-0°15'57
min. Earth dist.	15020 Apr 13 23:10	9° 8 38'11	0.65664 AU	minimum elong	15021 Mar 30 16:51	20° Ƴ 44'17	0°16'00
inferior conj	15020 Apr 16 04:34	7° 8 05'25	0°47'42	asc. node	15021 Mar 31 12:19	19° Ƴ 54'17	
minimum elong	15020 Apr 16 03:20	7° と 08'57	0°46'45	morning rise	15021 Apr 06 07:41	15° Ƴ 27'10	
morning rise	15020 Apr 22 07:30	1° 8 32'20		direct	15021 Apr 08 19:06	14° Ƴ 56'41	
direct	15020 Apr 25 03:27	0° ႘ 48'55		morning max el	15021 Apr 15 04:46	18° Ƴ 13'22	17°47'45
morning max el	15020 May 01 11:19	4° 8 07'00	18°04'06		15021 Apr 23 21:19	$_{0\circ}$ 8	
desc. node	15020 May 16 09:33	25° 8 26'58		morning set	15021 May 01 21:12	13° 8 22'50	
	15020 May 19 04:52	$\Pi^{\circ}0$		desc. node	15021 May 03 06:18	15° 8 43'21	
morning set	15020 May 20 00:40	1° Ⅲ 20′22			15021 May 11 19:03	Π °0	
		—					
superior conj	15020 Jun 03 18:58	24° Ⅱ 57'12		superior conj	15021 May 14 20:12	4° Ⅱ 58'28	
minimum elong	15020 Jun 03 10:33	24° Ⅱ 24'09		minimum elong	15021 May 14 12:17	4° Ⅱ 26'24	
max. Earth dist.	15020 Jun 06 12:11		1.45817 AU	max. Earth dist.	15021 May 20 07:35	13° Ⅱ 44'39	1.45028 AU
	15020 Jun 07 00:16	0.2		evening rise	15021 May 30 08:48	29° Ⅱ 22'39	
evening rise	15020 Jun 19 21:43	19° © 59'16			15021 May 30 18:34	0°©	
	15020 Jun 26 10:04	0° Ω		_	15021 Jun 20 06:06	0°Ω	
greatest brilliancy	15020 Jul 02 13:06	9° Ω 15'34	-0.7m	asc. node	15021 Jun 27 10:18	8° Ω 36'36	
asc. node	15020 Jul 10 13:27	20° Ω 27'32		evening max el	15021 Jun 27 12:20	8° Ω 41'41	20°21'21
evening max el	15020 Jul 14 09:27	24° Ω 49'38	19°22'17	retrograde	15021 Jul 05 10:08	13° Ω 12'53	
retrograde	15020 Jul 21 11:13	28° Ω 45'47		evening set	15021 Jul 09 11:33	11° Ω 38'47	
evening set	15020 Jul 25 02:22	27° Ω 29'16		inferior conj	15021 Jul 14 17:50	5° Ω 34'44	
inferior conj	15020 Jul 30 11:52	21° Ω 37'33	2°58'21	minimum elong	15021 Jul 14 18:16	5° Ω 33'15	3°08'13
minimum elong	15020 Jul 30 13:16	21°Ω32'58	2°57'28	min. Earth dist.	15021 Jul 15 12:18	4° Ω 31'30	0.68330 AU
min. Earth dist.	15020 Jul 31 20:21	19° Ω 51′03	0.67256 AU		15021 Jul 19 04:41	30° ₹ 5	
morning rise	15020 Aug 04 23:35	15° Ω 11'56		morning rise	15021 Jul 20 00:41	29°5512'10	
direct	15020 Aug 10 23:08	12° Ω 36'29		direct	15021 Jul 25 12:50	26°5947'24	
desc. node	15020 Aug 12 08:02	12° Ω 43'41	0.500.000	desc. node	15021 Jul 30 05:25	28°9511'57	
morning max el	15020 Aug 23 07:58	20° Ω 00'09	25°38'02		15021 Aug 01 21:19	0° Ω	
	15020 Aug 31 21:37	0° my		morning max el	15021 Aug 05 18:36	3° Ω 30'51	24°12'25
	15020 Sep 21 00:21	0∘ ⊽			15021 Aug 26 01:38	0° m/y	
morning set	15020 Sep 28 06:50	12° Ω 41'19		morning set	15021 Sep 10 04:40	24° m 17'57	
max. Earth dist.	15020 Oct 01 21:33	19° £ 23'35	1.35867 AU		15021 Sep 13 10:49	0∘ ⊽	
asc. node	15020 Oct 06 15:12	28° ≏ 35'07		max. Earth dist.	15021 Sep 13 20:38	0° ≙ 43'46	1.38166 AU
	15020 Oct 07 08:14	0°M					

	15021 G 21 02 52	140 0 14110	0021102		15022 0 02 16 27	2 (0 m, 2012 0	0056157
superior conj	15021 Sep 21 03:53	14° £ 14'18		superior conj	15022 Sep 03 16:37	26° m) 29'28	
minimum elong	15021 Sep 21 05:20	14° £ 21'13	0°20'37	minimum elong	15022 Sep 03 21:01	26° Mp 49'24	0°56'24
asc. node	15021 Sep 23 11:48	18° ≏ 44'05			15022 Sep 05 14:49	0∘ ⊽	
	15021 Sep 29 04:53	0° M		asc. node	15022 Sep 10 08:21	8° ≏ 48'47	
evening rise	15021 Sep 29 21:42	1°M23'14		evening rise	15022 Sep 13 14:43	14° ≏ 59'33	
evening max el	15021 Oct 16 09:31	28°M24'22	19°05'56		15022 Sep 21 20:01	0° M	
	15021 Oct 18 03:38	0° ⊼		evening max el	15022 Sep 29 13:05	10°M39'14	18°25'06
retrograde	15021 Oct 25 09:27	2° ∡ ¹55'44		retrograde	15022 Oct 07 06:03	14°M33'52	
desc. node	15021 Oct 26 01:48	2° ∡ ¹54'16		evening set	15022 Oct 09 06:10	14° M ₊18'42	
evening set	15021 Oct 27 06:25	2° ∡ ¹44'47		desc. node	15022 Oct 12 23:12	12° M 39'44	
	15021 Nov 02 11:04	30°RM₊		inferior conj	15022 Oct 16 23:30	9° ™ 44'08	-1°17'00
inferior conj	15021 Nov 04 16:44	28°M30'55	-3°01'58	minimum elong	15022 Oct 16 20:31	9° ™ 50'05	1°15'16
minimum elong	15021 Nov 04 09:09	28°M43'51	2°58'22	min. Earth dist.	15022 Oct 20 05:21	7° M ₀09'25	0.58049 AU
min. Earth dist.	15021 Nov 07 11:36	26°M37'06	0.56139 AU	morning rise	15022 Oct 24 07:22	4° M 28′09	
morning rise	15021 Nov 12 09:16	23°M52'28		direct	15022 Oct 30 13:07	2°M47'34	
direct	15021 Nov 18 00:27	22°M38'50		morning max el	15022 Nov 13 20:16	10°M22'26	27°10'55
morning max el	15021 Dec 02 02:56	29°M50'08	25°52'41	C	15022 Nov 28 23:17	0° ∡ ¹	
Ü	15021 Dec 02 07:02	0° ₹ ¹		asc. node	15022 Dec 07 09:35	14° √ 45'12	
asc. node	15021 Dec 20 12:35	25° х 32'33		morning set	15022 Dec 14 06:53	28° х 42'44	
uov. nouv	15021 Dec 20 12:30	0°る		morning out	15022 Dec 14 21:18	0°る	
morning set	15021 Dec 29 21:58	14° る 15'22			13022 Bec 11 21:10	° O	
morning set	13021 Dec 2) 21.30	14 013 22		superior conj	15022 Dec 21 03:18	13° る 48'33	1°35'59
superior conj	15022 Jan 05 15:51	29° る 07'57	1°37'52	minimum elong	15022 Dec 21 03:18 15022 Dec 21 02:27	13°る43'48	1°36'56
minimum elong	15022 Jan 05 16:03	29° る 09'01	1°38'47	max. Earth dist.	15022 Dec 21 02:27 15022 Dec 21 04:56	13°る57'42	1.31109 AU
minimum elong		29 3 0901 0° ≈	1 364/			13 3 3742 28° 3 46'53	1.51109 AU
E d E d	15022 Jan 06 01:14		1 21501 ATT	evening rise	15022 Dec 27 22:25		
max. Earth dist.	15022 Jan 06 21:18	1°≈51'13	1.31581 AU		15022 Dec 28 12:10	0° ≈	
evening rise	15022 Jan 12 17:45	14°≈29'11		desc. node	15023 Jan 08 21:39	21°≈53'24	
	15022 Jan 20 15:26	0° ∀			15023 Jan 13 22:26	0° \	
desc. node	15022 Jan 22 00:53	2° ∺ 31'15		evening max el	15023 Jan 27 03:54		26°55'33
	15022 Feb 09 16:48	0° Υ		retrograde	15023 Feb 10 03:58	23°) 42′00	
evening max el	15022 Feb 14 00:19	4° Ƴ 31'47	27°30'41	evening set	15023 Feb 16 18:47	21° ¥ 50′36	
retrograde	15022 Feb 27 23:04	11° Y 54'54		min. Earth dist.	15023 Feb 20 17:59		0.59461 AU
evening set	15022 Mar 06 19:27	9° Ƴ 42'38		inferior conj	15023 Feb 23 23:01	16° ∺ 37'18	-2°57'57
min. Earth dist.	15022 Mar 10 13:55	6° Ƴ 48'07	0.61690 AU	minimum elong	15023 Feb 24 05:39	16°) €24'00	2°55'09
inferior conj	15022 Mar 13 15:43	3° Y 59′23	-1°32'09	morning rise	15023 Mar 03 19:56	11° ∺ 57′09	
minimum elong	15022 Mar 13 18:58	3° Y 51'55	1°30'48	asc. node	15023 Mar 05 07:12	11°) 43′13	
asc. node	15022 Mar 18 09:46	0° Ƴ 09'34		direct	15023 Mar 05 20:07	11°) 42′07	
	15022 Mar 18 16:05	30°₽)		morning max el	15023 Mar 13 11:11	15°) 29′28	18°09'43
morning rise	15022 Mar 20 21:33	28°) € 58'46			15023 Mar 23 12:17	$0^{\circ}\mathbf{\Upsilon}$	
direct	15022 Mar 23 02:05	28°) (37'46		morning set	15023 Mar 29 01:59	10° Ƴ 13'58	
	15022 Mar 27 08:37	$0^{\circ}\mathbf{\Upsilon}$		desc. node	15023 Apr 06 23:33	26° Ƴ 41'59	
morning max el	15022 Mar 29 21:53	2° Y '04'10	17°49'15		•		
morning set	15022 Apr 14 15:37	26° Y 26′32		superior conj	15023 Apr 07 20:06	28° Y 14′20	-0°07'00
Ü	15022 Apr 16 15:28	0°8		minimum elong	15023 Apr 07 19:31	28° Ƴ 11'44	0°07'16
desc. node	15022 Apr 20 02:57	6° 8 09'41		behind sun begin	15023 Apr 07 12:40	27° Y ′41′04	
	r			behind sun end	15023 Apr 08 02:21	28° Y ′42'20	
superior conj	15022 Apr 25 20:36	16° 8 04'40	-0°44'53	ouma san una	15023 Apr 08 19:46	0°8	
minimum elong	15022 Apr 25 16:25	15° 8 46'54		max. Earth dist.	15023 Apr 15 10:48	11° 8 27'31	1.41648 AU
max. Earth dist.	15022 May 02 23:39		1.43587 AU	evening rise	15023 Apr 20 09:34	19° 8 36'56	1.11010110
max. Earth dist.	15022 May 04 06:48	0°Ⅱ	1.43307 710	evening rise	15023 Apr 26 23:38	0°Ⅱ	
evening rise	15022 May 10 00:38	9° П 05'26			15023 May 18 07:57	0.ಂ ೧ H	
evening rise	15022 May 10 00:38	0°99		evening max el	15023 May 24 01:34	6°925'37	22051152
avanina may al	15022 Way 23 22:38 15022 Jun 10 09:13	22° © 33'11	21922142	asc. node	•	12° © 05'40	22 31 33
evening max el			21 32 42		15023 Jun 01 04:18		
asc. node	15022 Jun 14 07:15	25°954'26		retrograde	15023 Jun 03 05:31	12°524'15	
retrograde	15022 Jun 19 08:45	27°547'20		evening set	15023 Jun 08 05:06	10°5518'02	0.60046.477
evening set	15022 Jun 23 21:00	25°956'20		min. Earth dist.	15023 Jun 13 04:38	4°\$22'01	0.69046 AU
inferior conj	15022 Jun 29 02:44	19°5541'26	3°08'18	inferior conj	15023 Jun 13 12:34	3°954'27	2°56'50
minimum elong	15022 Jun 29 02:11	19° © 43'19	3°07'18	minimum elong	15023 Jun 13 11:12	3°959'14	2°55'39
min. Earth dist.	15022 Jun 29 07:46	19° © 23'51	0.68928 AU		15023 Jun 16 11:45	30°RⅡ	
morning rise	15022 Jul 04 07:11	13° © 24'21		morning rise	15023 Jun 18 17:11	27° Ⅱ 44'27	
direct	15022 Jul 09 06:57	11° © 15'31		direct	15023 Jun 23 04:30	25° Ⅱ 54'34	
desc. node	15022 Jul 17 02:44	15° © 07'56			15023 Jun 30 22:08	0 \circ \odot	
morning max el	15022 Jul 19 06:19	17° © 09'24	22°43'01	morning max el	15023 Jul 01 21:52	0° © 57'09	21°18'06
	15022 Jul 29 21:27	0 ° Ω		desc. node	15023 Jul 03 23:56	3° 5 09'39	
	15022 Aug 19 02:47	0° ™			15023 Jul 23 15:35	0 $^{\circ}\Omega$	
morning set	15022 Aug 22 03:41	4° m 54′50		morning set	15023 Aug 02 02:30	14° Ω 29'44	
max. Earth dist.	15022 Aug 26 20:15	12° m 43'49	1.40544 AU	max. Earth dist.	15023 Aug 09 00:53	25° Ω 35'32	1.42726 AU

	15023 Aug 11 17:08	0° m)		morning set	15024 Jul 11 07:51	23°521'43	
					15024 Jul 15 14:49	0°N	
superior conj	15023 Aug 16 08:58	7° Mp 51'03		max. Earth dist.	15024 Jul 21 12:17	9° 81 16'25	1.44462 AU
minimum elong	15023 Aug 16 16:04		1°31'27		15024 1 1 27 01 50	100 012150	1050140
evening rise	15023 Aug 27 19:03	28° m, 01'19		superior conj	15024 Jul 27 01:58	18°Ω13'58 18°Ω42'36	
asc. node	15023 Aug 28 04:55	28° m) 45'47		minimum elong	15024 Jul 27 09:00		2°00'03
	15023 Aug 28 21:23	0° 亞	10004152		15024 Aug 03 04:40	0° M)	
evening max el retrograde	15023 Sep 13 00:05	23° ♀ 30'57 27° ♀ 01'37	18°04'53	evening rise asc. node	15024 Aug 09 05:46 15024 Aug 14 01:32	10° Mp 16'24	
Č	15023 Sep 19 20:20 15023 Sep 22 03:33	27 ≥ 01 37 26° ♀ 38'02		asc. node	Č	18° ™ 30'59 0° ₽	
evening set inferior conj	15023 Sep 22 03:33 15023 Sep 29 03:13	20 ≗ 38 02 21° £ 43'04	0°13'33	evening max el	15024 Aug 21 04:23 15024 Aug 26 14:29	0 <u>≈</u> 6° Ω 49'40	18°03'45
minimum elong	15023 Sep 29 03:40	21° ⊆ 43'04 21° ⊆ 42'02	0°13'38	retrograde	15024 Aug 20 14.29 15024 Sep 02 00:26	10° ⊆ 10'13	16 03 43
transit middle	15023 Sep 29 03:40 15023 Sep 29 03:40	21° ⊆ 42'02	0°13'38	evening set	15024 Sep 02 00:20 15024 Sep 04 15:59	9° £ 34'39	
	•	21° ⊆ 42'02 21° ⊆ 46'10	0 13 38	inferior conj	•	9 = 34 39 4° £ 21'06	1°23'34
transit begin transit end	15023 Sep 29 01:52 15023 Sep 29 05:27	21° 2 46 10 21° 2 37'52		minimum elong	15024 Sep 11 00:27 15024 Sep 11 02:32		1°22'51
desc. node	15023 Sep 29 03.27 15023 Sep 29 20:38	21° ⊆ 3732 21° ⊆ 02'29		min. Earth dist.	15024 Sep 11 02.32 15024 Sep 13 20:07	4 = 13 33 1° ⊆ 23'44	0.62571 AU
min. Earth dist.	15023 Scp 29 20.38 15023 Oct 02 07:56	18° Ω 46'22	0.60290 AU	mm. Earm dist.	15024 Sep 15 26:07	30°RM)	0.02371 AU
morning rise	15023 Oct 02 07:30 15023 Oct 06 00:34	15° ⊆ 55'43	0.00290 AU	desc. node	15024 Sep 15 18:05	29° m/34'24	
direct	15023 Oct 10 00:54	13° ⊆ 3343		morning rise	15024 Sep 17 10:47	28° m) 12'19	
morning max el	15023 Oct 26 21:22	21° ⊆ 4929	27°52'48	direct	15024 Sep 24 03:08	25° m) 46'42	
morning max ci	15023 Nov 03 04:27	0°M	27 32 40	direct	15024 Oct 03 23:15	ე° 亞	
	15023 Nov 22 00:36	0° ∡ 7		morning max el	15024 Oct 08 04:24	ა 3° _ 46'03	27055132
asc. node	15023 Nov 24 06:30	4° ∡ ⁷ 20′27		morning max ci	15024 Oct 08 04.24 15024 Oct 27 18:56	0°M	21 33 32
morning set	15023 Nov 28 11:31	12° x 54'27		asc. node	15024 Nov 10 03:20	24°ML11'36	
max. Earth dist.	15023 Nov 28 11:31 15023 Dec 04 12:13	25° х 59'03	1.31176 AU	morning set	15024 Nov 10 03:20	26°M45'22	
max. Earth dist.	13023 DCC 04 12.13	23 🗡 3903	1.31170 AC	morning set	15024 Nov 12 23:33	20 11 6 43 22	
superior conj	15023 Dec 05 14:24	28° ∡ ¹24'47	1°28'12	max. Earth dist.	15024 Nov 16 15:26	0 x ⁴ 7° x ⁴46'41	1.31797 AU
minimum elong	15023 Dec 05 12:41		1°29'01	max. Earth dist.	13024 1107 10 13.20	/ 🗴 4041	1.31/9/ AU
minimum ciong	15023 Dec 06 07:28	20×1313 0°る	1 2901	superior conj	15024 Nov 18 23:18	12° ∡ ′51′25	1°14'28
evening rise	15023 Dec 12 07:00	13° る 12'58		minimum elong	15024 Nov 18 21:04	12°×31'23	1°15'03
evening rise	15023 Dec 12 07:00 15023 Dec 20 14:22	0°≈		evening rise	15024 Nov 18 21:04 15024 Nov 25 17:38	27° х 42'45	1 13 03
desc. node	15023 Dec 26 18:30	0 ∞ 10°≈38'20		evening rise	15024 Nov 26 19:12	27 メ 1 2 1 3	
evening max el	15024 Jan 08 23:32	10 ≈38 20 27°≈31'57	25946441	desc. node	15024 Nov 20 15:12 15024 Dec 12 15:27	28° る 32'25	
evening max er	15024 Jan 11 19:46	0° ₩	23 40 41	desc. node	15024 Dec 12 15:27 15024 Dec 13 16:54	0°≈	
retrograde	15024 Jan 22 21:47	4°) 33'44		evening max el	15024 Dec 20 11:37		24°12'38
evening set	15024 Jan 28 22:25	3° ₩ 09'26		retrograde	15025 Jan 03 02:18	14°≈36'17	24 12 30
min. Earth dist.	15024 Feb 02 12:28	0°) 30'49	0.57353 AU	evening set	15025 Jan 08 03:07	13°≈41'02	
mm. Latti dist.		30°R≈	0.57555710	•	15025 Jan 13 23:15		
						10°∞46'26	0.55651 AT
inferior coni	15024 Feb 03 06:36	•	-4°24'34	min. Earth dist.		10°≈46'26 0°≈20'57	0.55651 AU -5°33'49
inferior conj	15024 Feb 05 10:46	28° ≈ 29'11		inferior conj	15025 Jan 16 01:34	9° ≈ 29'57	-5°33'49
minimum elong	15024 Feb 05 10:46 15024 Feb 05 19:51	28°≈29'11 28°≈13'26		inferior conj minimum elong	15025 Jan 16 01:34 15025 Jan 16 08:53	9°≈29'57 9°≈18'50	-5°33'49
minimum elong morning rise	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11	28°≈29'11 28°≈13'26 24°≈10'33		inferior conj minimum elong morning rise	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28	9°≈29'57 9°≈18'50 5°≈30'51	-5°33'49
minimum elong morning rise direct	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43		inferior conj minimum elong morning rise direct	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37	-5°33'49
minimum elong morning rise direct asc. node	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20	4°21'18	inferior conj minimum elong morning rise direct asc. node	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58	-5°33'49 5°31'49
minimum elong morning rise direct	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38		inferior conj minimum elong morning rise direct	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23	-5°33'49 5°31'49
minimum elong morning rise direct asc. node morning max el	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0°¥	4°21'18	inferior conj minimum elong morning rise direct asc. node morning max el	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥	-5°33'49 5°31'49
minimum elong morning rise direct asc. node	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩ 29'38	4°21'18	inferior conj minimum elong morning rise direct asc. node	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23	-5°33'49 5°31'49
minimum elong morning rise direct asc. node morning max el	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0°¥	4°21'18	inferior conj minimum elong morning rise direct asc. node morning max el morning set	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02	-5°33'49 5°31'49 19°54'41
minimum elong morning rise direct asc. node morning max el morning set	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩ 29'38	4°21'18	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02	-5°33'49 5°31'49 19°54'41 0°53'51
minimum elong morning rise direct asc. node morning max el morning set	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ¥ 24° ¥29'38 0° ♀ 11° ♀14'45	4°21'18 18°50'52 0°26'31	inferior conj minimum elong morning rise direct asc. node morning max el morning set	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02	-5°33'49 5°31'49 19°54'41
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ¥ 29'38 0° Ŷ 11° Ŷ 14'45 11° Ŷ 22'38	4°21'18 18°50'52	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°₩ 9°₩03'02 24°₩53'56 25°₩06'41 0°Ψ	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ŷ 11° Ŷ'14'45 11° Ŷ'22'38 17° Ŷ15'50	4°21'18 18°50'52 0°26'31 0°26'09	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04 15025 Mar 10 00:23	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41	-5°33'49 5°31'49 19°54'41 0°53'51
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ'14'45 11° Ψ'22'38 17° Ψ'15'50 24° Ψ17'42	4°21'18 18°50'52 0°26'31	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04 15025 Mar 10 00:23 15025 Mar 10 16:40	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41 0°♀ 6°♀32'02 7°♀47'50	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° ¥'14'45 11° ¥'22'38 17° ¥'15'50 24° ¥'17'42 0° ₩	4°21'18 18°50'52 0°26'31 0°26'09	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist.	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 13 17:46	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41 0°♀ 6°♀32'02 7°♀47'50 13°♀20'49	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 15:40	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ14'45 11° Ψ22'38 17° Ψ15'50 24° Ψ17'42 0° ₩ 1° ₩33'47	4°21'18 18°50'52 0°26'31 0°26'09	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41 0°Y 6°Y32'02 7°Y47'50 13°Y20'49 0°♥	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38
minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Apr 19 07:01	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ŷ 11° Ŷ14'45 11° Ŷ22'38 17° Ŷ15'50 24° Ŷ17'42 0° ℧ 1° ℧03'47 0° Ⅱ	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Apr 14 05:43	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41 0°Y 6°Y32'02 7°Y47'50 13°Y20'49 0°¥ 0°H	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU
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	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 21 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Apr 19 07:01 15024 May 05 15:36	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ¥ 24° ¥29'38 0° Y 11° Y 14'45 11° Y 22'38 17° Y 15'50 24° Y 17'42 0° ℧ 1° ℧ 3'47 0° ℿ 20° ℿ19'38	4°21'18 18°50'52 0°26'31 0°26'09	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41 0°Y 6°Y32'02 7°Y47'50 13°Y20'49 0°♥	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU
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	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 21 16:17 15024 Mar 21 10:49 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 90 15:36 15024 May 05 15:36 15024 May 16 23:04	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ¥ 24° ¥29'38 0° Y 11° Y 14'45 11° Y 22'38 17° Y 15'50 24° Y 17'42 0° ℧ 1° ℧ 03'47 0° Ⅲ 20° Ⅲ 19'38 26° Ⅲ 57'15	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0°¥ 9°¥03'02 24°¥53'56 25°¥06'41 0°Y 6°Y32'02 7°Y47'50 13°Y20'49 0°₩ 0°Ⅲ 4°Ⅲ13'36 11°Ⅲ19'55	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU
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	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 90 15:36 15024 May 05 15:36 15024 May 16 23:04 15024 May 18 01:27	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ¥ 24° ¥29'38 0° Y 11° Y 14'45 11° Y 22'38 17° Y 15'50 24° Y 17'42 0° ℧ 1° ℧ 3'47 0° ℿ 20° ℿ19'38	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ¥ 9° ¥03'02 24° ¥53'56 25° ¥06'41 0° Y 6° Y32'02 7° Y47'50 13° Y20'49 0° ¥ 0° ¶ 4° ¶13'36	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU
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 evening set	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 90 7:01 15024 May 15 15:36 15024 May 16 23:04 15024 May 18 01:27 15024 May 22 10:13	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ŷ 11° Ŷ14'45 11° Ŷ22'38 17° Ŷ15'50 24° Ŷ17'42 0° ℧ 1° ℧03'47 0° ℿ 20° ℿ19'38 26° 爪57'15 26° 爪52'00 24° ∏38'25	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42 15025 May 06 10:45	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 4° Щ13'36 11° Щ19'55 9° ∭58'32 8° ∭52'01	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27
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 evening set min. Earth dist.	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 16:17 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 19 07:01 15024 May 15 15:36 15024 May 16 23:04 15024 May 18 01:27 15024 May 22 10:13 15024 May 27 00:46	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ŷ 11° Ŷ14'45 11° Ŷ22'38 17° Ŷ15'50 24° Ŷ17'42 0° ℧ 1° ℧03'47 0° Ⅲ 20° Ⅲ19'38 26° Ⅲ57'15 26° Ⅲ52'00 24° Ⅲ38'25 19° Ⅲ19'14	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42 15025 May 06 10:45 15025 May 10 17:57	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 0° Ⅲ 4° Ⅲ13'36 11° Ⅲ19'55 9° Ⅲ58'32 8° Ⅲ52'01 4° ∭09'16	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27
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 evening set min. Earth dist. inferior conj	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 16:17 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 95 15:36 15024 May 16 23:04 15024 May 18 01:27 15024 May 22 10:13 15024 May 27 00:46 15024 May 27 21:28	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ14'45 11° Ψ22'38 17° Ψ15'50 24° Ψ17'42 0° ₩ 1° ₩303'47 0° Ⅲ 20° Ⅲ19'38 26° Ⅲ57'15 26° Ⅲ52'00 24° Ⅲ38'25 19° Ⅲ19'14	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU 2°35'00	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42 15025 May 06 10:45 15025 May 10 17:57 15025 May 12 03:27	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 0° Ⅲ 4° Ⅲ13'36 11° Ⅲ19'55 9° Ⅲ58'32 8° Ⅲ52'01 4° Ⅲ09'16 2° Ⅲ21'24	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27
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 evening set min. Earth dist. inferior conj minimum elong	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 31 15:40 15024 Mar 95 15:36 15024 May 16 23:04 15024 May 16 23:04 15024 May 27 10:13 15024 May 27 00:46 15024 May 27 21:28 15024 May 27 19:30	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Υ 14'45 11° Υ 22'38 17° Υ 15'50 24° Υ 17'42 0° ₩ 1° ₩ 303'47 0° Ⅲ 20° Ⅲ 19'38 26° Ⅲ 55'15 26° Ⅲ 52'00 24° Ⅲ 38'25 19° Ⅲ 19'14 18° Ⅲ 15'53	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU	inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set min. Earth dist.	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 10 16:40 15025 Mar 23 14:20 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 May 04 22:42 15025 May 06 10:45 15025 May 10 17:57 15025 May 12 03:27 15025 May 12 01:17	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 0° Ⅲ 4° Ⅲ13'36 11° Ⅲ19'55 9° Ⅲ58'32 8° Ⅲ52'01 4° Ⅲ09'16 2° Ⅲ21'24 2° Ⅲ28'23	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27
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 evening set min. Earth dist. inferior conj minimum elong morning rise	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 16:17 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 31 07:01 15024 Mar 31 07:01	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ14'45 11° Ψ22'38 17° Ψ15'50 24° Ψ17'42 0° ₩ 1° 803'47 0° Ⅲ 20° Ⅲ19'38 26° Ⅲ57'15 26° Ⅲ52'00 24° Ⅲ38'25 19° Ⅲ19'14 18° Ⅲ09'14 18° Ⅲ09'14 18° Ⅲ07'42	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU 2°35'00	inferior conj minimum elong morning rise direct asc. node morning max el morning set 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	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 May 04 22:42 15025 May 06 10:45 15025 May 10 17:57 15025 May 12 03:27 15025 May 12 01:17 15025 May 14 00:35	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 0° Ⅲ 4° Ⅲ13'36 11° Ⅲ19'55 9° Ⅲ58'32 8° Ⅲ52'01 4° Ⅲ09'16 2° Ⅲ21'24 2° Ⅲ28'23 30° №	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27
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 evening set min. Earth dist. inferior conj minimum elong morning rise direct	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 31 5:40 15024 Mar 16 23:04 15024 May 16 23:04 15024 May 27 10:13 15024 May 27 00:46 15024 May 27 21:28 15024 May 27 19:30 15024 Jun 02 04:50 15024 Jun 06 04:07	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ14'45 11° Ψ22'38 17° Ψ15'50 24° Ψ17'42 0° ₩ 1° 803'47 0° Ⅲ 20° Ⅲ19'38 26° Ⅲ57'15 26° Ⅲ52'00 24° Ⅲ38'25 19° Ⅲ19'14 18° Ⅲ09'14 18° Ⅲ09'14 18° Ⅲ07'42 10° Ⅲ37'52	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU 2°35'00 2°33'39	inferior conj minimum elong morning rise direct asc. node morning max el morning set 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	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42 15025 May 04 10:45 15025 May 10 17:57 15025 May 12 03:27 15025 May 12 03:27 15025 May 14 00:35 15025 May 17 16:16	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 0° Ⅲ 4° Ⅲ13'36 11° Ⅲ19'55 9° 爪58'32 8° ╟52'01 4° Ⅲ09'16 2° Ⅲ21'24 2° Ⅲ28'23 30° № 26° ₩29'43	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27
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 evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 16:17 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 31 15:40 15024 Mar 95 15:36 15024 May 16 23:04 15024 May 17 15:27 15024 May 27 10:13 15024 May 27 10:13 15024 May 27 10:28 15024 May 27 19:30 15024 Jun 02 04:50 15024 Jun 06 04:07 15024 Jun 13 19:50	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ14'45 11° Ψ22'38 17° Ψ15'50 24° Ψ17'42 0° ℧ 1° ℧03'47 0° Ⅲ 20° Ⅲ19'38 26° Ⅲ57'15 26° Ⅲ52'00 24° Ⅲ38'25 19° Ⅲ19'14 18° Ⅲ09'14 18° Ⅲ09'14 18° Ⅲ07'42 10° Ⅲ37'52 14° Ⅲ55'25	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU 2°35'00	inferior conj minimum elong morning rise direct asc. node morning max el morning set 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	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 06 14:04 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42 15025 May 06 10:45 15025 May 10 17:57 15025 May 12 03:27 15025 May 12 03:27 15025 May 14 00:35 15025 May 17 16:16 15025 May 21 04:14	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 4° Щ13'36 11° Щ19'55 9° ∭58'32 8° ∭52'01 4° ∭09'16 2° ∭21'24 2° ∭28'23 30° № 26° ₩29'43 25° ₩19'29	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27 0.67854 AU 2°02'29 2°01'03
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 evening set min. Earth dist. inferior conj minimum elong morning rise direct	15024 Feb 05 10:46 15024 Feb 05 19:51 15024 Feb 13 20:11 15024 Feb 15 20:58 15024 Feb 20 04:38 15024 Feb 24 16:31 15024 Feb 26 07:28 15024 Mar 11 23:22 15024 Mar 14 18:48 15024 Mar 20 14:37 15024 Mar 20 16:17 15024 Mar 23 20:06 15024 Mar 27 17:49 15024 Mar 31 00:41 15024 Mar 31 00:41 15024 Mar 31 15:40 15024 Mar 31 5:40 15024 Mar 16 23:04 15024 May 16 23:04 15024 May 27 10:13 15024 May 27 00:46 15024 May 27 21:28 15024 May 27 19:30 15024 Jun 02 04:50 15024 Jun 06 04:07	28°≈29'11 28°≈13'26 24°≈10'33 23°≈57'43 24°≈59'20 28°≈16'38 0° ₩ 24° ₩29'38 0° Ψ 11° Ψ14'45 11° Ψ22'38 17° Ψ15'50 24° Ψ17'42 0° ₩ 1° 803'47 0° Ⅲ 20° Ⅲ19'38 26° Ⅲ57'15 26° Ⅲ52'00 24° Ⅲ38'25 19° Ⅲ19'14 18° Ⅲ09'14 18° Ⅲ09'14 18° Ⅲ07'42 10° Ⅲ37'52	4°21'18 18°50'52 0°26'31 0°26'09 1.39426 AU 24°13'09 0.68683 AU 2°35'00 2°33'39	inferior conj minimum elong morning rise direct asc. node morning max el morning set 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	15025 Jan 16 01:34 15025 Jan 16 08:53 15025 Jan 24 16:28 15025 Jan 27 02:35 15025 Feb 06 02:02 15025 Feb 06 09:46 15025 Feb 19 14:30 15025 Feb 24 04:06 15025 Mar 03 23:46 15025 Mar 04 02:20 15025 Mar 04 02:20 15025 Mar 10 00:23 15025 Mar 10 16:40 15025 Mar 13 17:46 15025 Mar 23 14:20 15025 Mar 23 14:20 15025 Apr 14 05:43 15025 Apr 18 05:13 15025 Apr 30 12:16 15025 May 04 22:42 15025 May 04 10:45 15025 May 10 17:57 15025 May 12 03:27 15025 May 12 03:27 15025 May 14 00:35 15025 May 17 16:16	9°≈29'57 9°≈18'50 5°≈30'51 5°≈15'37 9°≈55'58 10°≈14'23 0° ₩ 9° ₩03'02 24° ₩53'56 25° ₩06'41 0° Ψ 6° Ψ32'02 7° Ψ47'50 13° Ψ20'49 0° ₩ 0° Ⅲ 4° Ⅲ13'36 11° Ⅲ19'55 9° 爪58'32 8° ╟52'01 4° Ⅲ09'16 2° Ⅲ21'24 2° Ⅲ28'23 30° № 26° ₩29'43	-5°33'49 5°31'49 19°54'41 0°53'51 0°53'38 1.37164 AU 25°29'27

daga mada	15025 Jun 06 19:05	11° ∏ 23'59		marning sat	15026 May 21 15:29	12° ∏ 20′26	
desc. node	15025 Jun 06 18:05 15025 Jun 10 02:12	11° Щ 23′39 16° Щ 19'49	-0.7m	morning set	15026 May 31 15:28 15026 Jun 11 20:10	12° щ 20′26	
greatest brilliancy	15025 Jun 10 02:12	10 п 1949	-U. /III		13020 Juli 11 20.10	0 39	
morning set	15025 Jun 20 13:44	2°\$21'00		superior conj	15026 Jun 16 06:10	6°\$54'10	2007/32
max. Earth dist.	15025 Jul 04 05:32	23°534'04	1.45570 AU	minimum elong	15026 Jun 16 00:17	6°931'14	
max. Earth dist.	13023 Jul 04 03.32	23 393404	1.43370 AU	max. Earth dist.	15026 Jun 17 01:44		1.45942 AU
superior conj	15025 Jul 06 21:25	27° © 44'54	-2°13'30	max. Earth dist.	15026 Jul 01 01:21	0°Ω	1.43942 AU
minimum elong	15025 Jul 06 23:10	27°951'46		evening rise	15026 Jul 02 05:07	1° Ω 48'39	
minimum clong	15025 Jul 08 07:41	0°Ω	2 1723	greatest brilliancy	15026 Jul 12 00:34	17° Ω 05'27	-0.8m
evening rise	15025 Jul 21 17:49	21°Ω33'00		asc. node	15026 Jul 18 18:56	27°Ω03'42	0.0111
evening rise	15025 Jul 26 22:17	0° m)		asc. node	15026 Jul 20 23:53	0° m)	
asc. node	15025 Jul 31 22:12	7° m) 59'00		evening max el	15026 Jul 24 16:04	4° m) 12'43	18°55'01
evening max el	15025 Aug 10 04:45	20° m) 25'55	18°20'42	retrograde	15026 Jul 31 09:33	7° m) 53'53	10 23 01
retrograde	15025 Aug 16 14:02	23° m 50'09	10 20 .2	evening set	15026 Aug 03 19:06	6° Mp 47'15	
evening set	15025 Aug 19 14:24	22° m/59'52		inferior conj	15026 Aug 09 07:45	1° m/02'48	2°46'17
inferior conj	15025 Aug 25 11:10	17° m) 29'54	2°13'37	minimum elong	15026 Aug 09 09:38	0° mp 56'51	2°45'23
minimum elong	15025 Aug 25 13:33	17° m) 22'57	2°12'40		15026 Aug 10 03:29	30°RΩ	
min. Earth dist.	15025 Aug 27 17:54	14° mp 50'16	0.64668 AU	min. Earth dist.	15026 Aug 11 00:19	28° Ω 54'21	0.66428 AU
morning rise	15025 Aug 31 11:16	11° m) 08'57		morning rise	15026 Aug 14 23:21	24° Ω 37'07	
desc. node	15025 Sep 02 15:36	9° m 41'04		desc. node	15026 Aug 20 13:04	22° Ω 00'41	
direct	15025 Sep 07 00:01	8° m/32'41		direct	15026 Aug 21 04:25	21° Ω 59'08	
morning max el	15025 Sep 20 14:52	16° m) 29'06	27°22'46	morning max el	15026 Sep 03 02:25	29° Ω 39'31	26°22'01
	15025 Oct 01 19:52	0∘ <u>⊽</u>			15026 Sep 03 10:28	0° m)	
	15025 Oct 20 14:21	0°M.			15026 Sep 25 17:04	0∘ <u>v</u>	
morning set	15025 Oct 25 22:59	10° M ₀08'38		morning set	15026 Oct 09 00:04	22° ≏ 58'02	
asc. node	15025 Oct 28 00:05	14° M .12'41		Ü	15026 Oct 12 16:16	0°M₊	
max. Earth dist.	15025 Oct 30 11:04	19° M .13'53	1.32977 AU	max. Earth dist.	15026 Oct 12 21:01	0°M23'17	1.34685 AU
				asc. node	15026 Oct 14 20:48	4° ™ 19'54	
superior conj	15025 Nov 03 03:51	27° M 01'47	0°54'47				
minimum elong	15025 Nov 03 01:36	26° ™ 49'44	0°55'09	superior conj	15026 Oct 18 01:39	10°M50'38	0°29'19
	15025 Nov 04 13:02	0° ⊼ ¹		minimum elong	15026 Oct 18 00:06	10°M42'39	0°29'35
evening rise	15025 Nov 10 04:26	12° ∡ 10'35		evening rise	15026 Oct 25 13:32	26°M32'26	
C	15025 Nov 19 03:33	აი		C	15026 Oct 27 05:33	0° ∡ ¹	
desc. node	15025 Nov 29 12:31	15° පි 16'16		evening max el	15026 Nov 13 15:22	28° ∡ 01'43	20°54'50
evening max el	15025 Dec 01 21:37	17° る 47'04	22°29'31	S	15026 Nov 15 19:58	ರ°ರ	
retrograde	15025 Dec 14 18:12	24° る 09'15		desc. node	15026 Nov 16 09:40	0° る 26'49	
evening set	15025 Dec 18 11:35	23° る 38'52		retrograde	15026 Nov 25 04:33	3° ප 45'51	
min. Earth dist.	15025 Dec 26 05:20	20° ප 09'03	0.54627 AU	evening set	15026 Nov 27 17:16	3°₹30'32	
inferior conj	15025 Dec 26 22:53	19° る 44'23	-6°00'26	-	15026 Dec 05 22:12	30°R. ✓	
minimum elong	15025 Dec 26 22:20	19° る 45'09	5°59'29	inferior conj	15026 Dec 06 13:49	29° х 37'46	-5°26'50
morning rise	15026 Jan 04 10:16	15° る 56'57		minimum elong	15026 Dec 06 05:14	29° ₹ 50′00	5°24'15
direct	15026 Jan 07 15:36	15° る 33'28		min. Earth dist.	15026 Dec 07 10:55	29° ∡ 07'40	0.54495 AU
morning max el	15026 Jan 19 12:11	21° る 15'26	21°21'39	morning rise	15026 Dec 14 17:23	25° ∡ ¹44'34	
asc. node	15026 Jan 23 23:24	26° る 16'58		direct	15026 Dec 18 22:48	25° х 06′15	
	15026 Jan 26 15:46	0° ≈			15026 Dec 30 10:06	0° ප	
morning set	15026 Feb 08 13:21	23° ≈ 45′29		morning max el	15027 Jan 01 01:58	1° る 29'00	23°06'30
	15026 Feb 11 12:33	0°)		asc. node	15027 Jan 10 20:41	13° る 44'33	
					15027 Jan 19 22:32	0° ≈	
superior conj	15026 Feb 15 19:36	9° ∺ 00'49		morning set	15027 Jan 24 00:52	8° ≈ 30′13	
minimum elong	15026 Feb 15 22:05	9° ∺ 13'42	1°14'38				
max. Earth dist.	15026 Feb 20 10:54	18° ¥ 26′18	1.35077 AU	superior conj	15027 Jan 30 22:52	23° ≈ 26′07	1°28'33
evening rise	15026 Feb 24 12:35	26°) 18'40		minimum elong	15027 Jan 31 00:40	23° ≈ 35'46	1°29'04
desc. node	15026 Feb 25 13:14	28°) 14' 02		max. Earth dist.	15027 Feb 03 04:15		1.33345 AU
	15026 Feb 26 12:11	0° Υ			15027 Feb 03 01:04	0° ∀	
	15026 Mar 17 00:16	0°8		evening rise	15027 Feb 07 20:37	9° ¥ 48'16	
evening max el	15026 Mar 31 19:00	18° 8 01'30	26°33'27	desc. node	15027 Feb 12 09:49	18° ¥ 29'57	
retrograde	15026 Apr 13 20:16	25° 8 25'17			15027 Feb 18 22:50	0° Υ	
evening set	15026 Apr 20 04:53	22° 8 53'01			15027 Mar 12 18:58	0°8	
asc. node	15026 Apr 21 20:02	21° 8 24'31		evening max el	15027 Mar 14 08:21	1° 8 33'21	27°17'44
min. Earth dist.	15026 Apr 24 06:05	18° 8 45'20	0.66582 AU	retrograde	15027 Mar 27 22:13	9° 8 04'01	
inferior conj	15026 Apr 26 04:25	16° 8 26'16	1°18'35	evening set	15027 Apr 03 14:33	6° 8 33'39	
minimum elong	15026 Apr 26 02:37	16° 8 31'40	1°17'19	min. Earth dist.	15027 Apr 07 11:11	2° 8 58'17	0.64912 AU
morning rise	15026 May 02 01:25	10° 8 46'03		asc. node	15027 Apr 08 17:26	1° 8 35'56	
direct	15026 May 05 02:56	9° 8 53'37		inferior conj	15027 Apr 09 21:50	0° 8 17'23	0°22'19
morning max el	15026 May 11 13:15	13° 8 17'20	18°21'20	minimum elong	15027 Apr 09 21:13	0° 8 19'05	0°21'40
	15026 May 23 19:57	0°П			15027 Apr 10 04:09	30°₹ Υ	
desc. node	15026 May 24 15:00	1° Ⅱ 14′20		morning rise	15027 Apr 16 05:46	24° Y 50'33	

direct	15027 Apr 18 21:52	24° Y 13'08		morning rise	15028 Mar 30 02:04	8° Y 36'25	
morning max el	15027 Apr 25 05:34	27° Y 29'07	17°55'03	direct	15028 Apr 01 10:11	8° Y 10'33	
	15027 Apr 27 12:42	$_{0\circ}$ 8		morning max el	15028 Apr 07 23:18	11° Y 30'21	17°46'10
desc. node	15027 May 11 11:48	21° 8 22'48			15028 Apr 20 13:51	0°8	
morning set	15027 May 12 20:50	23° 8 39'28		morning set	15028 Apr 24 03:28	6° 8 10'22	
Ü	15027 May 16 17:06	0° I I		desc. node	15028 Apr 27 08:32	11° 8 44'03	
		-			те то		
superior conj	15027 May 26 21:15	16° Ⅱ 26'16	-1°43'05	superior conj	15028 May 06 08:01	26° 8 54'43	-1°07'21
minimum elong	15027 May 26 12:24	15° I I51'05		minimum elong	15028 May 06 01:32	26° 8 27'57	
_	•	22° II 46'53		minimum clong	•	20 Ο 2737	1 0/13
max. Earth dist.	15027 May 30 21:42		1.45566 AU	n d ti	15028 May 08 05:08		1 44400 411
	15027 Jun 04 12:43	0°©		max. Earth dist.	15028 May 12 15:25	7° Ⅱ 09'15	1.44488 AU
evening rise	15027 Jun 11 21:01	11° © 19'39		evening rise	15028 May 21 08:11	20° ∏ 46′27	
	15027 Jun 24 05:25	0 $^{\circ}$ Ω			15028 May 27 09:53	0	
greatest brilliancy	15027 Jun 26 04:39	2° Ω 53'16	-0.6m		15028 Jun 18 02:56	$0 {\circ} \Omega$	
asc. node	15027 Jul 05 15:44	15° Ω 35'54		evening max el	15028 Jun 19 22:32	1° Ω 55'15	20°50'23
evening max el	15027 Jul 07 22:15	18° Ω 03′22	19°45'37	asc. node	15028 Jun 21 12:37	3° Ω 24'49	
retrograde	15027 Jul 15 07:55	22° Ω 13'41		retrograde	15028 Jun 28 06:53	6° Ω 44'09	
evening set	15027 Jul 19 03:15	20° Ω 49'47		evening set	15028 Jul 02 12:45	5° Ω 03'00	
inferior conj	15027 Jul 24 11:02	14°Ω52'30	3°04'24	8	15028 Jul 06 23:25	30°Rூ	
minimum elong	15027 Jul 24 12:02	14° Ω 49'09	3°03'32	inferior conj	15028 Jul 07 18:31	28°954'13	3°10'04
min. Earth dist.	15027 Jul 25 13:30	$13^{\circ}\Omega 23'48$	0.67769 AU	minimum elong	15028 Jul 07 18:32	28°954'10	3°09'09
			0.07709 AU	Č			
morning rise	15027 Jul 29 20:22	8° Ω 27'29		min. Earth dist.	15028 Jul 08 07:18	28°509'58	0.68649 AU
direct	15027 Aug 04 15:07	5° Ω 55'49		morning rise	15028 Jul 13 00:01	22° © 33'31	
desc. node	15027 Aug 07 10:30	6° Ω 26′10		direct	15028 Jul 18 07:01	20°514'46	
morning max el	15027 Aug 16 13:22	13° Ω 04'42	25°02'33	desc. node	15028 Jul 24 07:53	22° © 34'22	
	15027 Aug 30 06:12	0° m y		morning max el	15028 Jul 29 00:02	26° © 38'09	23°34'06
	15027 Sep 18 11:33	0∘ ত			15028 Aug 01 02:46	$0^{\circ}\Omega$	
morning set	15027 Sep 21 09:05	5° ≙ 04'10			15028 Aug 22 19:44	0° m ∕	
max. Earth dist.	15027 Sep 24 22:14	11° ≏ 29'38	1.36817 AU	morning set	15028 Sep 01 21:37	16° Mp 16'04	
	•			max. Earth dist.	15028 Sep 05 20:15	23° Mp 01'41	1.39186 AU
superior conj	15027 Oct 01 13:39	24° ₽ 10'28	-0°01'27		15028 Sep 09 18:26	0∘ <u>⊽</u>	
minimum elong	15027 Oct 01 13:43	24° £ 10'46	0°01'07		10020 Sep 05 10.20	v —	
behind sun begin	15027 Oct 01 13:43	23° £ 38'54	0 01 07	superior conj	15028 Sep 13 12:08	6° £ 52'15	0°36'00
behind sun end	15027 Oct 01 07:14				*		
		24° Ω 42'43		minimum elong	15028 Sep 13 14:46	7° Ω 04'35	0°35′39
asc. node	15027 Oct 01 17:26	24° ₽ 29'08		asc. node	15028 Sep 17 13:59	14° △ 36'20	
	15027 Oct 04 11:51	0° M ₊		evening rise	15028 Sep 22 17:02	24° △ 33'13	
evening rise	15027 Oct 09 18:39	10°M42'22			15028 Sep 25 12:43	0° M	
	15027 Oct 20 02:21	0° ∡ ¹		evening max el	15028 Oct 08 20:44	20°M51'26	18°45'59
evening max el	15027 Oct 26 23:14	9° ∡ '01'42	19°39'21	retrograde	15028 Oct 17 06:07	25° ™ 05'15	
desc. node	15027 Nov 03 06:54	13° ∡ ³38'59		evening set	15028 Oct 19 03:47	24°M53'00	
retrograde	15027 Nov 05 21:06	13° ∡ 58'45		desc. node	15028 Oct 20 04:14	24°M36'52	
evening set	15027 Nov 07 19:38	13° ∡ ⁴48'14		inferior conj	15028 Oct 27 07:18	20°M30'52	-2°16'28
inferior conj	15027 Nov 16 13:09	9° ∡ ′45′08	-4°02'14	minimum elong	15028 Oct 27 01:41	20°M41'06	2°13'34
minimum elong	15027 Nov 16 03:33	10° ∡ ′00′14	3°58'14	min. Earth dist.	15028 Oct 30 08:48	18° M ₊17'33	0.56893 AU
min. Earth dist.	15027 Nov 18 19:20	8° ∡ 19'59	0.55300 AU	morning rise	15028 Nov 03 20:25	15°M36'25	
morning rise	15027 Nov 24 09:40	5° х ¹26'35	***************************************	direct	15028 Nov 09 18:49	14°M11'06	
direct	15027 Nov 29 13:52	4° ×7 26'59		morning max el	15028 Nov 23 23:40	21°M33'18	26°20'53
morning max el	15027 Nov 29 15.52 15027 Dec 13 10:59	4 x ·26 39 11° x 23'31	24°55'30	morning max ci	15028 Nov 23 23.40 15028 Dec 01 09:14	21 11633 18 0° x ⁷	20 27 33
morning max ei		0°る	4 JJ JU	aga nada	15028 Dec 01 09:14 15028 Dec 14 14:57	0° x ′ 20° x ′58'46	
	15027 Dec 27 12:56			asc. node			
asc. node	15027 Dec 28 17:52	2°る02'58			15028 Dec 19 06:16	0°る	
morning set	15028 Jan 08 12:45	23° る 12'06		morning set	15028 Dec 22 23:14	7° る 45'38	
	15028 Jan 11 15:34	0° ≈				_	
				superior conj	15028 Dec 29 17:45	22° る 42'46	
superior conj	15028 Jan 15 06:59	8° ≈ 02'29	1°36'14	minimum elong	15028 Dec 29 17:29	22° る 41'19	1°38'45
minimum elong	15028 Jan 15 07:48	8° ≈ 06'57	1°37'03	max. Earth dist.	15028 Dec 30 11:03	24° る 19'16	1.31313 AU
max. Earth dist.	15028 Jan 17 04:58	12° ≈ 14′21	1.32074 AU		15029 Jan 02 00:34	0° ≈	
evening rise	15028 Jan 22 14:44	23° ≈ 42′05		evening rise	15029 Jan 05 16:13	7° ≈ 52'37	
	15028 Jan 25 18:10	0° ∀		desc. node	15029 Jan 16 03:06	28°≈08'40	
desc. node	15028 Jan 30 06:26	8° ¥ 30'31			15029 Jan 17 04:44	0° ∀	
	15028 Feb 12 14:32	0°Υ		evening max el	15029 Feb 06 03:24	27° ¥ 03′00	27°20'12
evening max el	15028 Feb 24 19:57	14° Υ 38'16	27°35'15	t thing must be	15029 Feb 09 13:33	0°Υ	2. 2012
•	15028 Feb 24 19.37 15028 Mar 09 17:06	22° Υ 06'25	_ 1 JJ 1J	ratrograda	15029 Feb 09 13:33 15029 Feb 20 03:18	4° Υ 22'15	
retrograde				retrograde			
evening set	15028 Mar 16 13:16	19° Y 45′28	0.62022.433	evening set	15029 Feb 26 22:01	2°Υ18'21	
min. Earth dist.	15028 Mar 20 07:33		0.62923 AU		15029 Mar 02 03:45	30° ₹ ₩	0.60730 :::
inferior conj	15028 Mar 23 04:45	13° Y 47'33		min. Earth dist.	15029 Mar 02 17:48		0.60739 AU
minimum elong	15028 Mar 23 06:18	13° Y 43'44	0°46'18	inferior conj	15029 Mar 05 21:42	26°) 47′02	
asc. node	15028 Mar 25 14:50	11° Y 30'20		minimum elong	15029 Mar 06 02:22	26°) 36′54	2°05'43

asc. node	15029 Mar 12 12:16	22° 升 12'53		morning rise	15030 Feb 23 23:46	4°) 34'41	
morning rise	15029 Mar 13 09:59	21°) 54'28		direct	15030 Feb 25 23:38	4° ∺ 20'56	
direct	15029 Mar 15 12:12	21°) 36'27		asc. node	15030 Feb 27 09:44	4° ¥ 28'12	
morning max el	15029 Mar 22 15:09	25°) 10'46	17°55'32	morning max el	15030 Mar 06 01:28	8° ¥ 20'15	18°24'35
	15029 Mar 26 15:35	0°Υ			15030 Mar 19 23:39	0° Υ	
morning set	15029 Apr 07 05:21	19° Ƴ 34'26		morning set	15030 Mar 21 20:53	3° Υ '34'57	
morning set	•	0° 8		morning set	13030 Wai 21 20.33	3 1 34 37	
	15029 Apr 12 23:22	_			15020 16 21 02 22	210000007	0007157
desc. node	15029 Apr 14 05:10	2° 8 13'01		superior conj	15030 Mar 31 02:33	21° Υ '00'07	0°07'57
				minimum elong	15030 Mar 31 03:06	21° Y 02'40	0°07'35
superior conj	15029 Apr 17 18:30	8° 8 28'08		behind sun begin	15030 Mar 30 20:41	20° Ƴ 33'12	
minimum elong	15029 Apr 17 15:58	8° 8 17'09	0°28'35	behind sun end	15030 Mar 31 09:31	21° Y 32'03	
max. Earth dist.	15029 Apr 25 05:25	21° 8 04'18	1.42816 AU	desc. node	15030 Apr 01 01:43	22° Ƴ 45'56	
	15029 Apr 30 18:11	Π $\circ 0$			15030 Apr 05 02:53	8° 0	
evening rise	15029 May 01 06:17	0° Ⅱ 47'51		max. Earth dist.	15030 Apr 07 15:01	4° 8 20'43	1.40724 AU
	15029 May 20 22:18	0 \circ \odot		evening rise	15030 Apr 12 00:01	11° 8 42'06	
evening max el	15029 Jun 02 17:25	15°5647'42	22°05'46		15030 Apr 23 15:44	$\Pi^{\circ}0$	
asc. node	15029 Jun 08 09:35	20°516'39		evening max el	15030 May 16 08:32	29° Ⅱ 40'37	23°26'38
retrograde	15029 Jun 12 04:46	21°520'24		Ü	15030 May 16 16:23	0°9	
evening set	15029 Jun 16 21:50	19° 5 22'46		asc. node	15030 May 26 06:40	5° 9 54'00	
inferior conj	15029 Jun 22 04:03	13°S04'09	3°04'41	retrograde	15030 May 27 00:13	5°956'21	
minimum elong	15029 Jun 22 03:09	13° 9 07'21	3°03'37	evening set	15030 Jun 01 04:52	3°9344'11	
Č	15029 Jun 22 03:36			evening set		30°RⅡ	
min. Earth dist.		13°905'45	0.69043 AU	i matara	15030 Jun 04 13:51		0.60050 441
morning rise	15029 Jun 27 08:17	6°549'58		min. Earth dist.	15030 Jun 06 00:17	28° Ⅱ 04'09	0.68950 AU
direct	15029 Jul 02 02:50	4°548'43		inferior conj	15030 Jun 06 13:43	27° Ⅱ 17'57	2°48'51
desc. node	15029 Jul 11 05:11	10° © 00'50		minimum elong	15030 Jun 06 12:03	27° Ⅱ 23'40	2°47'36
morning max el	15029 Jul 11 12:53	10°©19'58	22°05'53	morning rise	15030 Jun 11 19:12	21° Ⅱ 11'41	
	15029 Jul 27 00:17	$0^{\circ}\Omega$		direct	15030 Jun 16 01:22	19° Ⅱ 30′20	
morning set	15029 Aug 13 10:14	26° Ω 26′15		morning max el	15030 Jun 24 06:59	24° Ⅱ 12'09	20°45'07
	15029 Aug 15 15:06	0° m		desc. node	15030 Jun 28 02:22	28° Ⅲ 24'38	
max. Earth dist.	15029 Aug 18 21:54	5° Mp 24'42	1.41519 AU		15030 Jun 29 09:28	0 \circ \odot	
					15030 Jul 20 08:06	$0^{\circ}\Omega$	
superior conj	15029 Aug 26 16:49	18° m) 46'35	-1°12'10	morning set	15030 Jul 24 00:13	5° Ω 39'07	
minimum elong	15029 Aug 26 22:30	19° m 11'43	1°11'38	max. Earth dist.	15030 Aug 01 06:07	18° Ω 41'13	1.43535 AU
	15029 Sep 01 22:11	0∘ ত					
asc. node	15029 Sep 04 10:32	4° £ 38′29		superior conj	15030 Aug 07 23:27	29° Ω 43'27	-1°44'58
evening rise	15029 Sep 06 05:16	7° £ 56'38		minimum elong	15030 Aug 08 07:02	0° mp 15'14	1°44'47
S	15029 Sep 19 05:57	0°M₊		Ü	15030 Aug 08 03:24	0° m)	
evening max el	15029 Sep 22 04:04	3°M23'46	18°14'02	evening rise	15030 Aug 20 02:49	20° m 40'36	
retrograde	15029 Sep 29 10:41	7°ML06'17		asc. node	15030 Aug 22 07:06	24° m/31'05	
evening set	15029 Oct 01 13:43	6°M47'52		use. Houe	15030 Aug 25 10:25	0° ⊽	
desc. node	15029 Oct 07 01:40	3°M38'46		evening max el	15030 Fag 25 16:25 15030 Sep 05 16:57	ა — 16° ჲ 27'52	18°02'01
inferior conj	15029 Oct 07 01:40 15029 Oct 08 23:20	2°M04'12	0026115	retrograde	15030 Sep 03 10:37 15030 Sep 12 07:38	19° ≏ 52'48	10 02 01
-		2°M06'59		•	-	19 = 32 48 19° £ 24'30	
minimum elong	15029 Oct 08 22:01		0 33 17	evening set	15030 Sep 14 18:16		0045140
· P d II ·	15029 Oct 11 09:27	30°R ≏	0.50006.444	inferior conj	15030 Sep 21 11:03	14° £ 21'00	0°45'48
min. Earth dist.	15029 Oct 12 05:52	29° £ 17'53	0.58986 AU	minimum elong	15030 Sep 21 12:24	14° £ 17'41	0°45'27
morning rise	15029 Oct 16 02:56	26° £ 34'08		desc. node	15030 Sep 23 23:09	11° ≙ 53'17	
direct	15029 Oct 22 13:13	24° Ω 42'21		min. Earth dist.	15030 Sep 24 12:28	11° ≏ 21'42	0.61273 AU
	15029 Nov 03 04:51	0°M₊		morning rise	15030 Sep 28 03:41	8° ≏ 23'08	
morning max el	15029 Nov 05 20:18	2°M24'12	27°33'32	direct	15030 Oct 04 19:23	6° ഫ 08'03	
	15029 Nov 25 20:34	0° ∡ ¹		morning max el	15030 Oct 19 00:29	14° ഫ 03'50	27°58'40
asc. node	15029 Dec 01 11:57	10° ≯ 22'06			15030 Oct 31 21:03	0° M ₊	
morning set	15029 Dec 07 06:34	22° 尽 06'41		asc. node	15030 Nov 18 08:50	0° ≯ 04'42	
	15029 Dec 10 21:53	8°0			15030 Nov 18 07:53	0° ∡ ¹	
				morning set	15030 Nov 21 08:47	6° ∡ 10′06	
superior conj	15029 Dec 14 05:15	7° る 21'51	1°33'24	max. Earth dist.	15030 Nov 27 01:21	18° ∡ ¹22'25	1.31377 AU
minimum elong	15029 Dec 14 04:01	7° る 14'53	1°34'19				
max. Earth dist.	15029 Dec 13 19:09	6° ප 25'16	1.31078 AU	superior conj	15030 Nov 28 15:40	21° х 54'12	1°23'05
evening rise	15029 Dec 20 22:48	22° る 14'29		minimum elong	15030 Nov 28 13:41	21° ∡ ¹43'10	
<i>5</i>	15029 Dec 24 15:49	0°≈			15030 Dec 02 07:06	0°る	
desc. node	15030 Jan 02 23:53	17°≈16'05		evening rise	15030 Dec 02 07:00 15030 Dec 05 08:29	6° る 42'23	
2050. HOGO	15030 Jan 11 13:25	0° \		5 (5 min 5 1 1 5 C	15030 Dec 03 08:29	0° ≈	
evening max el	15030 Jan 19 03:56	8° ∺ 37'06	26°30'03	desc. node	15030 Dec 17 07:38 15030 Dec 20 20:47	0 ∞ 5°≈41'14	
retrograde	15030 Jan 19 03.36 15030 Feb 02 03:15	8 X 3706 15° X 45'06	20 30 03	evening max el	15030 Dec 20 20.47 15030 Dec 31 19:52	3 ≈41 14 19°≈18'43	25°08'49
-				-			43 0049
evening set	15030 Feb 08 13:21	14°) 04'48	0.50520 411	retrograde	15031 Jan 14 15:35	26°≈14'43	
min. Earth dist.	15030 Feb 12 17:28		0.58539 AU	evening set	15031 Jan 20 07:30	25°≈02'31	0.56561 433
inferior conj	15030 Feb 15 21:01	9° ₩ 05'53		min. Earth dist.	15031 Jan 25 08:01	22°≈19'37	
minimum elong	15030 Feb 16 04:58	8° ¥ 50'55	3°32'15	inferior conj	15031 Jan 27 23:46	20° ≈ 35'46	-4°5/'30

minimum elong	15031 Jan 28 08:50	20° ≈ 20′59	4°54'36	inferior conj	15032 Jan 08 06:16	1° ≈ 15′00	-5°51'52
morning rise	15031 Feb 05 12:42	16° ≈ 26′24		minimum elong	15032 Jan 08 10:51	1° ≈ 08'18	5°50'34
direct	15031 Feb 07 16:15	16° ≈ 13'10			15032 Jan 10 10:39	30°Ŗ₹	
asc. node	15031 Feb 14 07:11	18° ≈ 28′28		morning rise	15032 Jan 16 20:40	27° る 22'24	
morning max el	15031 Feb 17 02:11	20° ≈ 47'45	19°15'17	direct	15032 Jan 19 13:32	27° る 04'40	
C	15031 Feb 24 03:52	0°) €			15032 Jan 27 17:51	0° ≈	
morning set	15031 Mar 05 21:47	17° ¥ 59′22		morning max el	15032 Jan 30 13:23	2° ≈ 22'07	20°29'05
8	15031 Mar 11 22:46	$0^{\circ}\Upsilon$		asc. node	15032 Feb 01 04:36	4° ≈ 03'17	
	1000111111111111122.10	• •		use. noue	15032 Feb 16 21:59	0° ∀	
superior conj	15031 Mar 14 03:53	4° Y 18'56	0°38'55	morning set	15032 Feb 18 04:44	2°) 37'16	
minimum elong	15031 Mar 14 06:04	4°Υ29'32		morning set	13032100 10 04.44	2 /(3/10	
desc. node	15031 Mar 14 00:04	13° Υ 19'32	0 3833	superior coni	15022 Eab 25 19:01	18° ₩ 11'13	1902/25
		15 γ 1932 16° Υ 54'47	1.38446 AU	superior conj	15032 Feb 25 18:01	18°\(\frac{1}{1}\)132	1°03'23
max. Earth dist.	15031 Mar 20 21:25		1.38440 AU	minimum elong	15032 Feb 25 20:39		
evening rise	15031 Mar 24 14:56	23° Y 31'08		max. Earth dist.	15032 Mar 02 04:40	28° ¥ 56'13	1.36233 AU
	15031 Mar 28 10:24	0°8			15032 Mar 02 18:01	0° Υ	
	15031 Apr 17 10:26	Π °0		desc. node	15032 Mar 04 18:48	3° Y ′49′29	
evening max el	15031 Apr 28 22:03	13° ∏ 34'33	24°46'37	evening rise	15032 Mar 06 00:35	6° Y 06'44	
retrograde	15031 May 10 16:09	20° Ⅱ 26′18			15032 Mar 20 06:36	0 \circ 8	
asc. node	15031 May 13 03:53	19° ∏ 59'47		evening max el	15032 Apr 10 11:34	27° 8 26'15	25°58'41
evening set	15031 May 16 08:16	18° Ⅱ 02'46			15032 Apr 13 06:55	Π \circ 0	
min. Earth dist.	15031 May 20 19:23	12° ∏ 59′25	0.68381 AU	retrograde	15032 Apr 23 03:26	4° Ⅱ 42'20	
inferior conj	15031 May 21 21:37	11° Ⅱ 32'16	2°22'35	evening set	15032 Apr 29 06:19	2° Ⅱ 11'53	
minimum elong	15031 May 21 19:31	11° Ⅲ 39'17	2°21'10	asc. node	15032 Apr 29 01:12	2° Ⅱ 22'22	
morning rise	15031 May 27 07:00	5° Ⅱ 34'57			15032 May 01 12:32	30° ₹ 8	
direct	15031 May 31 01:17	4° Ⅱ 13'48		min. Earth dist.	15032 May 03 10:45	27° 8 44'08	0.67358 AU
morning max el	15031 Jun 07 08:16	8° Ⅱ 15'42	19°36'55	inferior conj	15032 May 05 01:44	25° 8 41'53	1°45'21
desc. node	15031 Jun 14 23:27	17° ∏ 30'43	1, 2000	minimum elong	15032 May 04 23:39	25° 8 48'26	1°43'56
greatest brilliancy	15031 Jun 20 01:05	24° I I43'17	-0.6m	morning rise	15032 May 10 17:41	19° 8 54'46	1 13 30
greatest offinality	15031 Jun 23 14:40	0°95	-0.0111	direct	15032 May 14 01:00	18° 8 52'32	
morning got	15031 Jul 03 03:13	14° © 27'29			•		18°44'06
morning set				morning max el	15032 May 20 16:39	0°Ⅱ	18 44 00
E d E d	15031 Jul 13 03:39	0°Ω	1 45014 411	1 1	15032 May 26 22:36		
max. Earth dist.	15031 Jul 14 20:12	2 8 6 39 33	1.45014 AU	desc. node	15032 May 31 20:25	7° Ⅱ 07'11	0.0
				greatest brilliancy	15032 Jun 04 11:52	12° Ⅱ 40'07	-0.8m
superior conj	15031 Jul 19 06:36	9° Ω 42'11		morning set	15032 Jun 11 15:34	23° ∏ 46′30	
minimum elong	15031 Jul 19 12:03	10° Ω 04'01	2°08'20		15032 Jun 15 15:24	0 \circ	
	15031 Jul 31 16:04	0° m ⁄		max. Earth dist.	15032 Jun 26 14:18	17° © 04'26	1.45816 AU
evening rise	15031 Aug 02 04:32	2° TD 32'34					
asc. node	15031 Aug 09 03:44	14° m 09'54		superior conj	15032 Jun 27 19:38	18° © 58'59	-2°13'29
	15031 Aug 20 09:42	0∘ ⊽		minimum elong	15032 Jun 27 18:00	18° 9 52'34	2°14'26
evening max el	15031 Aug 20 07:39	29° m 54'59	18°08'43		15032 Jul 04 20:03	$0^{\circ}\Omega$	
retrograde	15031 Aug 26 16:22	3° ≙ 15'46		evening rise	15032 Jul 13 05:54	13° £ 22′06	
evening set	15031 Aug 29 11:30	2° ₽ 34'23		greatest brilliancy	15032 Jul 19 07:38	23° Ω 04'42	-0.9m
	15031 Sep 01 23:00	30°R, ™			15032 Jul 23 17:20	0° m	
inferior conj	15031 Sep 04 14:34	27° mp 13'37	1°47'04	asc. node	15032 Jul 26 00:25	3° m 29'01	
minimum elong	15031 Sep 04 16:54	27° m 07'08	1°46'12	evening max el	15032 Aug 02 20:59	13° Mp 36'46	18°33'17
min. Earth dist.	15031 Sep 07 05:02	24° m/21'35	0.63497 AU	retrograde	15032 Aug 09 08:48	17° m) 06'36	
morning rise	15031 Sep 10 20:21	20° m 58'15		evening set	15032 Aug 12 12:57	16° m) 09'41	
desc. node	15031 Sep 10 20:39	20° m 57'39		inferior conj	15032 Aug 18 05:53	10° mp 33'38	2°29'23
direct	15031 Sep 17 11:40	18° m) 26'52		minimum elong	15032 Aug 18 08:07	10° m/26'52	
morning max el	15031 Oct 01 09:32	26° Mp 27'18	27°45'27	min. Earth dist.	15032 Aug 20 06:46	8° M) 05'36	0.65464 AU
morning max ci	15031 Oct 04 17:05	20 m/27 18 0° Ω	21 4321	morning rise	15032 Aug 24 02:07	4° My 09'53	0.03404 AC
		0° m .		desc. node	-		
	15031 Oct 25 11:52				15032 Aug 27 18:08	1° Mp 59'32	
morning set	15031 Nov 05 03:35	19°M50'23		direct	15032 Aug 30 12:08	1° Mp 31'27	26050145
asc. node	15031 Nov 05 05:38	20°M00'44		morning max el	15032 Sep 12 20:35	9° m/23'18	26°59'45
max. Earth dist.	15031 Nov 10 01:41	0° ₹ 01'30	1.32231 AU		15032 Sep 29 01:23	0∘ ⊽	
	15031 Nov 10 01:24	0° ∡ ¹			15032 Oct 16 22:06	0° M ₊	
				morning set	15032 Oct 18 12:08	3° M ₀01′06	
superior conj	15031 Nov 12 23:01	6° ≯ 14'40	1°06'50	asc. node	15032 Oct 22 02:22	10°M05'25	
minimum elong	15031 Nov 12 20:41	6° ∡ 02'03	1°07'20	max. Earth dist.	15032 Oct 22 17:05	11° M .19'41	1.33639 AU
evening rise	15031 Nov 19 19:26	21° ≯ 11'43					
	15031 Nov 24 00:17	5°0		superior conj	15032 Oct 27 01:05	20°M17'39	0°44'41
desc. node	15031 Dec 07 17:47	23° る 08'07		minimum elong	15032 Oct 26 23:01	20°MJ06'49	0°45'00
evening max el	15031 Dec 13 05:51	29° る 23'03	23°28'41	-	15032 Oct 31 14:22	0° ∡ ¹	
-	15031 Dec 13 21:32	0° ≈		evening rise	15032 Nov 03 05:48	5° ∡ ³38'16	
retrograde	15031 Dec 26 14:53	6° ≈ 01'16		5 -	15032 Nov 16 06:04	0°ಕ	
•						-	
evening ser	15031 Dec 31 02:36	5°≈17'33		desc. node	15032 Nov 23 14:53	9° ठ 16'18	
evening set min. Earth dist.	15031 Dec 31 02:36 15032 Jan 06 16:33	5°≈17'33 2°≈10'03	0.55109 AU	desc. node evening max el	15032 Nov 23 14:53 15032 Nov 23 18:14	9° る 16'18 9° る 24'33	21°47'25

. 1	15022 D 06 02 05	150721146		. 1	15022 31 16 14 06	250 721100	
retrograde	15032 Dec 06 03:05	15°₹31'46		retrograde	15033 Nov 16 14:06	25° 🗷 21'00	
evening set	15032 Dec 09 06:54	15° る 09'23	5050111	evening set	15033 Nov 18 19:06	25° ₹ 08'36	1055100
inferior conj	15032 Dec 17 23:17	11°る17'43		inferior conj	15033 Nov 27 16:02	21° 🖈 12'51	
minimum elong	15032 Dec 17 18:45	11° る 24'03	5°52'21	minimum elong	15033 Nov 27 06:06	21° × ⁷ 27'29	
min. Earth dist.	15032 Dec 17 22:23	11° る 18'59	0.54456 AU	min. Earth dist.	15033 Nov 29 04:31	20° ∡ 19'12 −	0.54737 AU
morning rise	15032 Dec 26 07:22	7° る 29'57		morning rise	15033 Dec 05 16:33	17° ∡ 11′20	
direct	15032 Dec 29 22:52	7° る 00'48		direct	15033 Dec 10 08:24	16° ≯ 24'31	
morning max el	15033 Jan 11 09:50	13° る 01'26	22°04'32	morning max el	15033 Dec 23 20:12	23° ∡ 01'53	23°53'19
asc. node	15033 Jan 18 01:55	20° ප් 55'16			15033 Dec 30 00:05	0°ಕ	
	15033 Jan 23 19:02	0° ≈		asc. node	15034 Jan 04 23:09	8° る 46'20	
morning set	15033 Feb 01 15:11	17° ≈ 21'34			15034 Jan 16 03:28	0°≈	
	15033 Feb 07 13:34	0° ∀		morning set	15034 Jan 17 03:05	2° ≈ 05'49	
superior conj	15033 Feb 08 17:22	2° ∺ 27'07	1°21'14	superior conj	15034 Jan 23 22:58	16° ≈ 57'44	1°32'34
minimum elong	15033 Feb 08 19:37	2° ∺ 38'57	1°21'32	minimum elong	15034 Jan 24 00:22	17° ≈ 05′21	1°33'13
max. Earth dist.	15033 Feb 12 17:47	10°) (46′47	1.34294 AU	max. Earth dist.	15034 Jan 26 14:40	22° ≈ 40'58	1.32754 AU
evening rise	15033 Feb 17 01:29	19° ∺ 19'43			15034 Jan 30 02:35	0° ₩	
desc. node	15033 Feb 19 15:22	24°) (12′03		evening rise	15034 Jan 31 14:11	3° ₭ 00'34	
	15033 Feb 22 20:04	0 ° $\mathbf{\gamma}$		desc. node	15034 Feb 06 11:58	14° ∺ 22'15	
	15033 Mar 14 08:15	$6^{\circ}B$			15034 Feb 15 15:57	0 ° $\mathbf{\Upsilon}$	
evening max el	15033 Mar 24 01:28	11° 8 09'08	26°55'11	evening max el	15034 Mar 06 14:29	24° Ƴ 31'41	27°28'50
retrograde	15033 Apr 06 08:57	18° 8 36'52			15034 Mar 13 15:09	$_{0\circ}$ 8	
evening set	15033 Apr 12 21:04	16° 8 04'55		retrograde	15034 Mar 20 07:45	2° 8 01'15	
asc. node	15033 Apr 15 22:33	13° 8 11'08			15034 Mar 26 11:26	30° ₹Ƴ	
min. Earth dist.	15033 Apr 16 20:14	12° 8 11'05	0.65916 AU	evening set	15034 Mar 27 02:21	29° Y 34'10	
inferior conj	15033 Apr 18 23:48	9° 8 41'39	0°56'17	min. Earth dist.	15034 Mar 30 21:47	26° Ƴ 11'13	0.64103 AU
minimum elong	15033 Apr 18 22:24	9° 8 45'44	0°55'13	inferior conj	15034 Apr 02 13:08	23° Y 25'00	-0°05'26
morning rise	15033 Apr 25 01:06	4° 8 06'32		minimum elong	15034 Apr 02 13:18	23° Y 24'33	0°05'40
direct	15033 Apr 27 22:28	3° 8 20'49		transit middle	15034 Apr 02 13:18	23° Y ′24'33	0°05'40
morning max el	15033 May 04 06:40	6° 8 39'56	18°07'58	transit begin	15034 Apr 02 10:24	23° Y 32'14	
desc. node	15033 May 18 17:16	27° 8 05'50	10 0,00	transit end	15034 Apr 02 16:13	23° Y 16'53	
desc. node	15033 May 20 12:34	0°II		asc. node	15034 Apr 02 19:57	23° Y '07'04	
morning set	15033 May 23 04:47	4° Ⅱ 19'01		morning rise	15034 Apr 09 02:28	18° Y ′04'21	
morning sec	13033 May 23 0 1.17	. 11701		direct	15034 Apr 11 15:06	17° Υ 32'08	
superior conj	15033 Jun 07 04:50	28° Ⅱ 11'51	1°50'05	morning max el	15034 Apr 17 23:55	20° Υ 48'08	17°49'06
minimum elong	15033 Jun 06 20:53	27° Ⅱ 40'39		morning max ci	15034 Apr 25 01:42	0°8	17 47 00
minimum clong	13033 Juli 00 20.33	4/ 4037					
	15022 Jun 09 09:29	0.00	1 0,02	morning sot	•	_	
may Earth dist	15033 Jun 08 08:28	0°ಅ		morning set	15034 May 04 21:35	16° 8 11'06	
max. Earth dist.	15033 Jun 09 10:38	1°542'18	1.45875 AU	morning set desc. node	15034 May 04 21:35 15034 May 05 14:02	16° 8 11'06 17° 8 20'32	
max. Earth dist. evening rise	15033 Jun 09 10:38 15033 Jun 23 07:30	1°542'18 23°514'16		•	15034 May 04 21:35	16° 8 11'06	
evening rise	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34	1°542'18 23°514'16 0°€	1.45875 AU	desc. node	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01	16° 8 11'06 17° 8 20'32 0°П	1920/4/
evening rise greatest brilliancy	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18	1°542'18 23°514'16 0°€ 11°€32'56		desc. node	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09	16° 8 11'06 17° 8 20'32 0°П 8°П05'06	
evening rise greatest brilliancy asc. node	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega_32'56 22°\$\Omega_20'54	1.45875 AU -0.7m	desc. node superior conj minimum elong	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52	16°႘311'06 17°႘20'32 0°Ⅲ 8°Ⅲ05'06 7°Ⅲ31'40	1°28'41
evening rise greatest brilliancy	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$25'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55	1.45875 AU	desc. node	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29	16°811'06 17°820'32 0°П 8°П05'06 7°П31'40 16°П16'50	
evening rise greatest brilliancy asc. node evening max el	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega\$22'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$	1.45875 AU -0.7m	desc. node superior conj minimum elong max. Earth dist.	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58	16°811'06 17°820'32 0°П 8°П05'06 7°П31'40 16°П16'50 0°©	1°28'41
evening rise greatest brilliancy asc. node evening max el retrograde	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega\$25'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$1°\$\Omega\$17'40	1.45875 AU -0.7m	desc. node superior conj minimum elong	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22	16°\(\delta\)11'06 17°\(\delta\)20'32 0°\(\mathbb{I}\) 8°\(\mathbb{I}\)05'06 7°\(\mathbb{I}\)31'40 16°\(\mathbb{I}\)16'50 0°\(\omega\) 2°\(\omega\)38'40	1°28'41
evening rise greatest brilliancy asc. node evening max el	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$10"\$\Omega\$17'40 0°\$\Omega\$03'40	1.45875 AU -0.7m	desc. node superior conj minimum elong max. Earth dist. evening rise	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49	16°\delta11'06 17°\delta20'32 0°\PI 8°\PI05'06 7°\PI31'40 16°\PI16'50 0°\delta 2°\delta38'40 0°\Lambda	1°28'41
evening rise greatest brilliancy asc. node evening max el retrograde evening set	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$ 1°\$\Omega\$17'40 0°\$\Omega\$3'8\$\Omega\$	1.45875 AU -0.7m 19°14'45	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00	16°♥11'06 17°♥20'32 0°Ⅲ 8°Ⅲ05'06 7°Ⅲ31'40 16°Ⅲ16'50 0°☞ 2°ℱ38'40 0°Ω 10°Ω36'33	1°28'41 1.45189 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 27 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\mathbf{m}\$ 1°\$\mathbf{m}\$17'40 0°\$\mathbf{m}\$03'40 30°\$\omega\$\Omega\$24°\$\Omega\$13'49	1.45875 AU -0.7m 19°14'45 2°55'35	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05	16° 811'06 17° 820'32 0° Π 8° Π05'06 7° Π31'40 16° Π16'50 0° Θ 2° \$38'40 0° Ω 10° Ω36'33 11° Ω17'42	1°28'41 1.45189 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$10'740 0°\$\Omega\$3'40 30°\$\Omega\$24°\$\Omega\$13'49 24°\$\Omega\$850	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31	16° 811'06 17° 820'32 0° Π 8° Π05'06 7° Π31'40 16° Π16'50 0° \$\text{2}\$ 2° \$\text{3}8'40 0° \$\text{0}\$ 10° \$\text{0}36'33 11° \$\text{0}17'42 15° \$\text{0}43'13	1°28'41 1.45189 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 21:29 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega_32'56 22°\$\Omega_20'54 27°\$\Omega_25'55 0°\$\Omega_1\$ 1°\$\Omega_17'40 0°\$\Omega_03'40 30°\$\Omega_2\$ 24°\$\Omega_13'49 24°\$\Omega_08'50 22°\$\Omega_21'30	1.45875 AU -0.7m 19°14'45 2°55'35	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21	16° 811'06 17° 820'32 0° Π 8° Π05'06 7° Π31'40 16° Π16'50 0° © 2° © 38'40 0° Ω 10° Ω36'33 11° Ω17'42 15° Ω43'13 14° Ω11'41	1°28'41 1.45189 AU 20°11'38
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega_32'56 22°\$\Omega_20'54 27°\$\Omega_25'55 0°\$\Omega_1\$\text{"m} 17'40 0°\$\Omega_03'40 30°\$\Omega_24°\$\Omega_13'49 24°\$\Omega_08'50 22°\$\Omega_21'30 17°\$\Omega_48'09	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56	16° 811'06 17° 820'32 0° Π 8° Π05'06 7° Π31'40 16° Π16'50 0° © 2° © 38'40 0° Ω 10° Ω36'33 11° Ω17'42 15° Ω43'13 14° Ω11'41 8° Ω09'16	1°28'41 1.45189 AU 20°11'38 3°08'12
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$ 1°\$\Omega\$17'40 0°\$\Omega\$03'40 30°\$\Omega\$0 24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° © 2° © 38'40 0° \(\Omega\) 10° \(\Omega\) 33'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$32'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$ 1°\$\Omega\$17'40 0°\$\Omega\$3'40 30°\$\R\$\Omega\$24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° © 2° © 38'40 0° \(\Omega\) 10° \(\Omega\) 33'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16 6° \(\Omega\) 59'26	1°28'41 1.45189 AU 20°11'38 3°08'12
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$ 1°\$\Omega\$17'40 0°\$\Omega\$03'40 30°\$\Omega\$0 24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° 9 2° 938'40 0° \(\Omega\) 10° \(\Omega\) 33'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16 6° \(\Omega\) 59'26 1° \(\Omega\) 45'59	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$32'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$ 1°\$\Omega\$17'40 0°\$\Omega\$3'40 30°\$\Omega\$0 24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36 22°\$\Omega\$40'06 0°\$\Omega\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° © 2° © 38'40 0° \(\Omega\) 10° \(\Omega\) 33'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16 6° \(\Omega\) 59'26	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 14 15:36 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Sep 02 07:30	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$10'740 0°\$\Omega\$03'40 30°\$\Omega\$24°\$\Omega\$03'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36 22°\$\Omega\$40'06 0°\$\Omega\$0	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU	superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 17 10:56 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° 9 2° 938'40 0° \(\Omega\) 10° \(\Omega\) 336'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16 6° \(\Omega\) 59'26 1° \(\Omega\) 45'59 30° R\$ 29° \(\Omega\) 919'22	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$32'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$ 1°\$\Omega\$17'40 0°\$\Omega\$3'40 30°\$\Omega\$0 24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36 22°\$\Omega\$40'06 0°\$\Omega\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37	16°&11'06 17°&20'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° © 2° © 38'40 0° \(\Omega\) 10° \(\Omega\) 33'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16 6° \(\Omega\) 59'26 1° \(\Omega\) 45'59 30° R©	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21
evening rise 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	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 14 15:36 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Sep 02 07:30	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$10'740 0°\$\Omega\$03'40 30°\$\Omega\$24°\$\Omega\$03'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36 22°\$\Omega\$40'06 0°\$\Omega\$0	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 17 10:56 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° 9 2° 938'40 0° \(\Omega\) 10° \(\Omega\) 336'33 11° \(\Omega\) 17'42 15° \(\Omega\) 43'13 14° \(\Omega\) 11'41 8° \(\Omega\) 09'16 8° \(\Omega\) 07'16 6° \(\Omega\) 59'26 1° \(\Omega\) 45'59 30° R\$ 29° \(\Omega\) 919'22	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21
evening rise 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	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Sep 22 08:27 15033 Oct 01 06:50	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$10'740 0°\$\Omega\$03'40 30°\$\Omega\$0 24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36 22°\$\Omega\$40'06 0°\$\Omega\$ 0°\$\Omega\$ 15°\$\Omega\$33'06	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 28 08:12 15034 Jul 31 13:10	16°\begin{align*} 16°\begin{align*} 17°\begin{align*} 20'\text{31}'\text{40} 16°\text{116'\text{50}} 0°\text{50} 2°\text{538'\text{40}} 0°\text{\$\Omega\$} 10°\text{\$\Omega\$33'\text{33}} 11°\text{\$\Omega\$17'\text{42}} 15°\text{\$\Omega\$43'\text{13}} 14°\text{\$\Omega\$11'\text{41}} 8°\text{\$\Omega\$09'\text{16}} 6°\text{\$\Omega\$59'\text{26}} 1°\text{\$\Omega\$45'\text{59}} 30°\text{\$\text{80}} 29°\text{\$\Omega\$19'\text{22}} 0°\text{\$\Omega\$}	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU
evening rise 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.	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 07:07 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Sep 22 08:27 15033 Oct 01 06:50 15033 Oct 04 22:52	1°\$42'18 23°\$14'16 0°\$\Omega\$ 11°\$\Omega\$2'56 22°\$\Omega\$20'54 27°\$\Omega\$25'55 0°\$\Omega\$10'140 0°\$\Omega\$03'40 30°\$\Omega\$24°\$\Omega\$13'49 24°\$\Omega\$08'50 22°\$\Omega\$21'30 17°\$\Omega\$48'09 15°\$\Omega\$11'51 15°\$\Omega\$14'36 22°\$\Omega\$40'06 0°\$\Omega\$ 15°\$\Omega\$33'06 22°\$\Omega\$24'56	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 31 13:10 15034 Aug 01 13:00	16°\begin{align*} 16°\begin{align*} 17°\begin{align*} 20'\text{31} 8°\text{\$\pi\$05'06} 7°\text{\$\pi\$11'40} 16°\text{\$\pi\$16'50} 0°\text{\$\pi\$} 2°\text{\$\pi\$38'40} 0°\text{\$\Omega\$} 10°\text{\$\Omega\$33'33} 11°\text{\$\Omega\$17'42} 15°\text{\$\Omega\$43'13} 14°\text{\$\Omega\$11'41} 8°\text{\$\Omega\$09'16} 8°\text{\$\Omega\$07'16} 6°\text{\$\Omega\$59'26} 1°\text{\$\Omega\$45'59} 30°\text{\$\pi\$} 29°\text{\$\pi\$19'22} 0°\text{\$\Omega\$} 0°\text{\$\Omega\$27'11}	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU
evening rise 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.	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Oct 01 06:50 15033 Oct 04 22:52 15033 Oct 08 22:59	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega_32'56 22°\$\Omega_20'54 27°\$\Omega_25'55 0°\$\Omega_10'740 0°\$\Omega_3'40 30°\$\Omega_24'\$\Omega_13'49 24°\$\Omega_13'49 15°\$\Omega_11'51 15°\$\Omega_14'36 0°\$\Omega_15°\$\Omega_33'06 22°\$\Omega_24'56 0°\$\Omega_13'53	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 22 08:37 15034 Jul 28 08:12 15034 Jul 31 13:10 15034 Aug 01 13:00 15034 Aug 08 18:25	16°\text{811'06} 17°\text{820'32} 0°\T 8°\T05'06 7°\T31'40 16°\T16'50 0°\text{9} 2°\text{\$38'40} 0°\Lambda 10°\Lambda36'33 11°\Lambda17'42 15°\Lambda43'13 14°\Lambda11'41 8°\Lambda09'16 8°\Lambda07'16 6°\Lambda5'59 30°\text{\$\text{8}\$} 29°\text{\$\text{\$9}\$}19'22 0°\Lambda 0°\Lambda27'11 6°\Lambda09'42	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU
evening rise 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.	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Oct 01 06:50 15033 Oct 04 22:52 15033 Oct 08 22:59	1°\$42'18 23°\$14'16 0°\$Ω 11°\$\Omega_32'56 22°\$\Omega_20'54 27°\$\Omega_25'55 0°\$\Omega_10'740 0°\$\Omega_3'40 30°\$\Omega_24'\$\Omega_13'49 24°\$\Omega_13'49 15°\$\Omega_11'51 15°\$\Omega_14'36 0°\$\Omega_15°\$\Omega_33'06 22°\$\Omega_24'56 0°\$\Omega_13'53	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 31 13:10 15034 Aug 01 13:00 15034 Aug 08 18:25 15034 Aug 07 06:38	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° © 2° © 38'40 0° \(\Omega\$ 10° \(\Omega\$ 336'33 11° \(\Omega\$ 17'42 15° \(\Omega\$ 43'13 14° \(\Omega\$ 11'41 8° \(\Omega\$ 09'16 8° \(\Omega\$ 07'16 6° \(\Omega\$ 59'26 1° \(\Omega\$ 445'59 30° \(\Omega\$ 0° \(\Omega\$ 22'111 6° \(\Omega\$ 09'42 0° \(\Omega\$ 0° \(\Omega\$ 0° \(\Omega\$ 27'111	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU
evening rise 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	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 14 15:36 15033 Aug 26 07:42 15033 Sep 01 18:52 15033 Oct 01 06:50 15033 Oct 04 22:52 15033 Oct 08 20:11	1°\$42'18 23°\$14'16 0°\$Ω 11°\$Ω32'56 22°\$Ω20'54 27°\$Ω25'55 0°\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57 1.35550 AU	desc. node superior conj minimum elong max. Earth dist. evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 31 13:10 15034 Aug 01 13:00 15034 Aug 08 18:25 15034 Aug 07:39	16° 811'06 17° 820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° 9 2° 938'40 0° \(\Omega\$ 10° \(\Omega\$ 336'33 11° \(\Omega\$ 11'42 15° \(\Omega\$ 43'13 14° \(\Omega\$ 11'41 8° \(\Omega\$ 09'16 8° \(\Omega\$ 07'16 6° \(\Omega\$ 59'26 1° \(\Omega\$ 45'59 30° \(\Sigma\$ 29° \(\Omega\$ 19'22 0° \(\Omega\$ 0° \(\Omega\$ 27'11 6° \(\Omega\$ 09'42 0° \(\Omega\$ 17'25	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU
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	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 15 19:19 15033 Aug 16:08 15033 Aug 17 18:15 15033 Aug 18:15 15034	1°\$42'18 23°\$14'16 0°\$Ω 11°\$Ω32'56 22°\$Ω20'54 27°\$Ω25'55 0°\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57 1.35550 AU	desc. node superior conj minimum elong max. Earth dist. evening rise 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	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 28 08:12 15034 Aug 01 13:00 15034 Aug 01 13:00 15034 Aug 07:39 15034 Sep 13 07:39 15034 Sep 14 20:48	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° S 2° S38'40 0° A 10° A36'33 11° A17'42 15° A43'13 14° A11'41 8° A09'16 8° A07'16 6° A59'26 1° A45'59 30° RS 29° S19'22 0° A 0° A27'11 6° A09'42 0° ID 27° ID 17'25 0° \$\infty\$	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU
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	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 05:36 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 07 18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 15 19:19 15033 Aug 16:08 15033 Aug 17 18:15 15033 Aug 18:52 15033 Oct 08:22:52 15033 Oct 08 22:59 15033 Oct 08 20:11	1°\$42'18 23°\$14'16 0°\$Ω 11°\$Ω32'56 22°\$Ω20'54 27°\$Ω25'55 0°\$\$\$\$\$0°\$\$\$\$00'\$\$\$\$00'\$\$40 30°\$\$\$\$\$Ω 24°\$\$Ω3'49 24°\$\$\$Ω8'50 22°\$\$\$Ω21'30 17°\$\$\$Ω48'09 15°\$\$\$Ω11'51 15°\$\$\$Ω14'36 22°\$\$\$\$Ω40'06 0°\$\$\$\$\$\$\$0°\$\$\$\$\$\$0°\$\$\$\$\$\$\$\$\$\$0°\$\$\$\$\$\$\$\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57 1.35550 AU	desc. node superior conj minimum elong max. Earth dist. evening rise 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	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 08 04:31 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 28 08:12 15034 Aug 01 13:00 15034 Aug 01 13:00 15034 Aug 07:39 15034 Sep 13 07:39 15034 Sep 14 20:48	16°811'06 17°820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° S 2° S38'40 0° A 10° A36'33 11° A17'42 15° A43'13 14° A11'41 8° A09'16 8° A07'16 6° A59'26 1° A45'59 30° RS 29° S19'22 0° A 0° A27'11 6° A09'42 0° ID 27° ID 17'25 0° \$\infty\$	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU 24°25'36
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 evening rise	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 21:29 15033 Aug 02 07:07 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 04 07:18:15 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 15:36 15033 Aug 16:08 15033 Aug 17:19 15033 Aug 18:15 15033 Aug 18:52 15033 Oct 10 18:52 15033 Oct 08 22:59 15033 Oct 08 22:59 15033 Oct 10 19:06 15033 Oct 10 19:06 15033 Oct 10 19:06 15033 Oct 10 18:07 15033 Oct 11 18:07	1°\$42'18 23°\$14'16 0°\$Ω 11°\$Ω32'56 22°\$Ω20'54 27°\$Ω25'55 0°\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57 1.35550 AU	desc. node superior conj minimum elong max. Earth dist. evening rise 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.	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 28 08:12 15034 Jul 31 13:10 15034 Aug 01 13:00 15034 Aug 01 13:00 15034 Aug 07:39 15034 Sep 14 20:48 15034 Sep 16 22:21	16° 811'06 17° 820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° 9 2° 938'40 0° Ω 10° Ω36'33 11° Ω17'42 15° Ω43'13 14° Ω11'41 8° Ω09'16 8° Ω07'16 6° Ω59'26 1° Ω45'59 30° № 29° 919'22 0° Ω 0° Ω27'11 6° Ω09'42 0° II 27° III 17'25 0° Ω 3° Ω40'48	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU 24°25'36 1.37814 AU -0°15'46
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	15033 Jun 09 10:38 15033 Jun 23 07:30 15033 Jun 27 16:34 15033 Jul 05 06:18 15033 Jul 12 21:10 15033 Jul 17 06:21 15033 Jul 20 08:55 15033 Jul 24 05:39 15033 Jul 27 19:22 15033 Jul 27 19:22 15033 Aug 02 07:07 15033 Aug 02 07:07 15033 Aug 03 16:08 15033 Aug 03 16:08 15033 Aug 13 19:19 15033 Aug 14 15:36 15033 Aug 15 19:19 15033 Aug 16:08 15033 Aug 17 18:15 15033 Aug 18:15 15033 Aug 18:52 15033 Aug 19:19 15033 Aug 19:19 15033 Aug 19:19 15033 Aug 19:19 15033 Aug 10 19:19 15033 Aug 10 18:52 15033 Oct 01 06:50 15033 Oct 01 06:50 15033 Oct 08 22:59 15033 Oct 10 19:06 15033 Oct 10 19:06 15033 Oct 10 19:06 15033 Oct 10 19:06 15033 Oct 10 18:07 15033 Oct 18 13:28 15033 Oct 23 13:40	1°\$42'18 23°\$14'16 0°\$Ω 11°\$Ω32'56 22°\$Ω20'54 27°\$Ω25'55 0°\$\$\$\$0°\$\$\$\$00'\$\$\$00'\$\$40 30°\$\$\$\$Ω 24°\$\$Ω13'49 24°\$\$Ω8'50 22°\$\$\$Ω21'30 17°\$\$Ω48'09 15°\$\$Ω11'51 15°\$\$Ω14'36 22°\$\$\$Ω40'06 0°\$\$\$\$00'\$\$\$\$\$00'\$\$\$\$\$00'\$\$\$\$\$\$00'\$\$\$\$\$\$00'\$\$\$\$\$\$	1.45875 AU -0.7m 19°14'45 2°55'35 2°54'42 0.67054 AU 25°49'57 1.35550 AU 0°16'53 0°17'10	desc. node superior conj minimum elong max. Earth dist. evening rise 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	15034 May 04 21:35 15034 May 05 14:02 15034 May 13 04:01 15034 May 18 03:09 15034 May 17 18:52 15034 May 23 06:29 15034 Jun 01 01:58 15034 Jun 02 19:22 15034 Jun 21 06:49 15034 Jun 29 18:00 15034 Jun 30 10:05 15034 Jul 12 04:21 15034 Jul 17 10:56 15034 Jul 17 10:56 15034 Jul 17 11:31 15034 Jul 18 07:25 15034 Jul 22 18:21 15034 Jul 25 08:37 15034 Jul 28 08:12 15034 Jul 28 08:12 15034 Jul 31 13:10 15034 Aug 01 13:00 15034 Aug 01 13:00 15034 Aug 01 13:00 15034 Aug 07:39 15034 Sep 14 20:48 15034 Sep 16 22:21	16° 811'06 17° 820'32 0° II 8° II 05'06 7° II 31'40 16° II 16'50 0° 9 2° 938'40 0° Ω 10° Ω36'33 11° Ω17'42 15° Ω43'13 14° Ω11'41 8° Ω09'16 6° Ω59'26 1° Ω45'59 30° № 29° 919'22 0° Ω 0° Ω27'11 6° Ω09'42 0° III 27° III 17'25 0° Ω 3° Ω40'48	1°28'41 1.45189 AU 20°11'38 3°08'12 3°07'21 0.68200 AU 24°25'36 1.37814 AU -0°15'46

behind sun end asc. node	15034 Sep 24 04:58 15034 Sep 25 19:34	17° £ 15'31 20° £ 22'51		superior conj minimum elong	15035 Sep 06 17:13 15035 Sep 06 21:10	29° m, 22'39 29° m, 40'37	
	15034 Sep 30 16:09	0°M		_	15035 Sep 07 01:24	0० ⊽	
evening rise	15034 Oct 02 16:06	3° ™ 59'11		asc. node	15035 Sep 12 16:08	10° ≏ 28'22	
	15034 Oct 18 02:16	0°×7	10012152	evening rise	15035 Sep 16 10:38	17° △ 39'30	
evening max el	15034 Oct 19 07:37	1° 🗷 18'10	19°13'52		15035 Sep 23 01:51	0°M	10020152
desc. node retrograde	15034 Oct 28 09:22 15034 Oct 28 13:07	5° х 56′05 5° х 56′09		evening max el retrograde	15035 Oct 02 09:44 15035 Oct 10 06:41	13°M26'53 17°M26'09	18°29'53
evening set	15034 Oct 28 13:07 15034 Oct 30 10:06	5° × 45'30		evening set	15035 Oct 10 00.41 15035 Oct 12 05:59	17 IIC2009	
inferior conj	15034 Nov 07 22:32	1° х 334′28	-3°18'05	desc. node	15035 Oct 12 05:39	15°M59'42	
minimum elong	15034 Nov 07 14:20	1° × ⁷ 48'11		inferior conj	15035 Oct 20 02:02	12°M40'44	-1°32'18
8	15034 Nov 10 07:03	30°RM		minimum elong	15035 Oct 19 22:23	12° M 47'51	1°30'13
min. Earth dist.	15034 Nov 10 14:31	29° M 47'49	0.55900 AU	min. Earth dist.	15035 Oct 23 07:13	10°ML10'53	0.57733 AU
morning rise	15034 Nov 15 16:08	27° M 01'20		morning rise	15035 Oct 27 11:17	7° M 30'07	
direct	15034 Nov 21 04:31	25°M51'32		direct	15035 Nov 02 15:19	5°M53′25	
	15034 Dec 01 18:08	0° ∡		morning max el	15035 Nov 16 22:08	13°M25'34	27°01'25
morning max el	15034 Dec 05 06:01	2° ₹ 59'12 -	25°38'33		15035 Nov 30 01:40	0° ∡ ¹	
asc. node	15034 Dec 22 20:16	27° ∡ *22'03		asc. node	15035 Dec 09 17:19	16° ∡ ¹30'56	
	15034 Dec 24 07:00	0°る			15035 Dec 16 10:00	0°る	
morning set	15035 Jan 01 14:36	16°る45'02 0°≈		morning set	15035 Dec 17 00:01	1° る 14'42	
	15035 Jan 07 15:03	0°∞		aumorior coni	15025 Dag 22 10:40	16° る 17'51	1°36'41
superior conj	15035 Jan 08 08:27	1° ≈ 36'33	1°37'39	superior conj minimum elong	15035 Dec 23 19:49 15035 Dec 23 19:07	16°る1/31	1°36'41 1°37'37
minimum elong	15035 Jan 08 08:49	1°≈38'31	1°38'31	max. Earth dist.	15035 Dec 24 01:30	16° ろ 49'39	1.31142 AU
max. Earth dist.	15035 Jan 09 18:09	4°≈42'53	1.31691 AU	max. Larm dist.	15035 Dec 30 00:56	0°≈	1.311 42 AO
evening rise	15035 Jan 15 11:44	17°≈02'08	1.51071110	evening rise	15035 Dec 30 15:39	1°≈18'42	
	15035 Jan 22 01:06	0° ∀		desc. node	15036 Jan 11 05:20	23° ≈ 41'13	
desc. node	15035 Jan 24 08:37	4°) 14'19			15036 Jan 15 01:06	0° ∀	
	15035 Feb 10 08:06	0 ° Υ		evening max el	15036 Jan 30 05:11	19°) 24′55	27°03'03
evening max el	15035 Feb 17 00:31	7° Y ′20'36	27°32'57	retrograde	15036 Feb 13 05:26	26°) 40′28	
retrograde	15035 Mar 02 22:57	14° Y '45'23		evening set	15036 Feb 19 21:26	24°) 45′38	
evening set	15035 Mar 09 19:31	12° Ƴ 30'30		min. Earth dist.	15036 Feb 23 19:29	22° ∺ 04'20	0.59790 AU
min. Earth dist.	15035 Mar 13 13:43	9° Ƴ 32'58	0.62011 AU	inferior conj	15036 Feb 27 00:29	19° ∺ 27'20	
inferior conj	15035 Mar 16 14:33	6° Y 43'14		minimum elong	15036 Feb 27 06:37		2°42'00
minimum elong	15035 Mar 16 17:19	6° Y 36'44	1°18'46	morning rise	15036 Mar 05 19:13	14°) 43′56	
asc. node	15035 Mar 20 17:24	3°Υ14'36 1°Υ39'56		asc. node	15036 Mar 06 14:51	14°) 33'54	
morning rise direct	15035 Mar 23 18:08 15035 Mar 25 23:31	1° γ ′39′36 1° γ ′17′48		direct	15036 Mar 07 19:44	14° ¥ 28'18 18° ¥ 12'02	18°05'24
morning max el	15035 Mar 25 25:31 15035 Apr 01 17:20	4° Υ 42'07	17017155	morning max el	15036 Mar 15 07:27 15036 Mar 23 19:10	18°π12'02 0°Υ	18-05-24
morning set	15035 Apr 01 17.20 15035 Apr 17 13:08	4 1 42 07 29° Υ ′06'55	17 47 55	morning set	15036 Mar 30 21:29	12° Υ 48'47	
morning set	15035 Apr 17 13:00 15035 Apr 18 01:07	0°8		desc. node	15036 Apr 08 07:20	28° Y 17'16	
desc. node	15035 Apr 22 10:43	7° 8 45'42			15036 Apr 09 06:16	0°8	
	Γ				r	. •	
superior conj	15035 Apr 29 00:03	19° 8 01'48	-0°50'49	superior conj	15036 Apr 09 20:17	1° 8 02'25	-0°12'31
minimum elong	15035 Apr 28 19:15	18° 8 41'35	0°50'47	minimum elong	15036 Apr 09 19:14	0° 8 57'44	0°12'46
	15035 May 05 15:32	Π °0		behind sun begin	15036 Apr 09 14:32	0° 8 36'51	
max. Earth dist.	15035 May 05 22:59	0° Ⅱ 30′07	1.43836 AU	behind sun end	15036 Apr 09 23:55	1° 8 18'36	
evening rise	15035 May 13 09:33	12° Ⅱ 16′18		max. Earth dist.	15036 Apr 17 10:40	14° 8 08'30	1.41962 AU
	15035 May 25 03:40	0°©		evening rise	15036 Apr 22 15:29	22° 8 39'39	
evening max el	15035 Jun 13 07:47	25°509'15	21°21'23		15036 Apr 27 07:03	0°II	
asc. node	15035 Jun 16 14:56	28°503'11			15036 May 18 05:31	0°©	22920140
retrograde	15035 Jun 20 06:42 15035 Jun 22 03:18	0°Ω 0°Ω16'55		evening max el asc. node	15036 May 26 00:43 15036 Jun 02 11:58	9° © 01'38 14° © 25'40	22°39'49
renograde	15035 Jun 22 03.18 15035 Jun 23 22:04	30°RS		retrograde	15036 Jun 02 11.38 15036 Jun 05 00:27	14 923 40 14°953'44	
evening set	15035 Jun 26 13:52	28°\$28'26		evening set	15036 Jun 09 22:17	12°933'44	
inferior conj	15035 Jul 01 19:31	22° © 14'59	3°09'04	inferior conj	15036 Jun 15 05:22	6°927'21	2°59'14
minimum elong	15035 Jul 01 19:08	22°5016'21	3°08'07	minimum elong	15036 Jun 15 04:07	6°931'45	2°58'05
min. Earth dist.	15035 Jul 02 02:33	21° © 50'29	0.68872 AU	min. Earth dist.	15036 Jun 14 23:24	6°5548'09	0.69062 AU
morning rise	15035 Jul 07 00:10	15° © 56'48		morning rise	15036 Jun 20 09:48	0°ഇ16'08	
direct	15035 Jul 12 01:46	13° 5 45'20		-	15036 Jun 20 17:48	30°RⅡ	
desc. node	15035 Jul 19 10:21	17° © 11'26		direct	15036 Jun 24 22:59	28° Ⅲ 23'11	
morning max el	15035 Jul 22 05:50	19° 5 47'12	22°56'08		15036 Jun 29 14:41	0°©	
	15035 Jul 30 21:45	$0^{\circ}\Omega$		morning max el	15036 Jul 03 20:34	3° © 33'11	21°30'08
	15035 Aug 20 10:37	0° m)		desc. node	15036 Jul 05 07:38	5°904'28	
morning set	15035 Aug 25 10:17	8° m 03'42			15036 Jul 23 21:26	0°N	
max. Earth dist.	15035 Aug 29 21:16	15° Mp 32'33	1.40196 AU	morning set	15036 Aug 04 12:34	17° Ω 47'22	1 40 407 111
				max. Earth dist.	15036 Aug 11 00:54	28~ 31 16'12	1.42427 AU

	15036 Aug 12 02:07	0° m		morning set	15037 Jul 14 19:43	26° © 43'52 0° Ω	
superior conj	15036 Aug 18 12:55	10° m 53'03	1°26'51	max. Earth dist.	15037 Jul 16 22:29 15037 Jul 24 11:43		1.44242 AU
minimum elong	15036 Aug 18 19:42	10 mg 22'20		max. Earth dist.	1303/Jul 24 11.43	11 0632 10	1.44242 AU
minimum ciong	15036 Aug 29 06:48	0° <u>Ω</u>	1 2024	superior conj	15037 Jul 30 09:32	21° Ω 25'24	-1°56'19
evening rise	15036 Aug 29 17:11	o — 0° ≏ 47'12		minimum elong	15037 Jul 30 16:53	21°Ω55'32	
asc. node	15036 Aug 29 12:41	0° ჲ 26'48		minimum ciong	15037 Aug 04 13:35	0° m)	1 30 20
evening max el	15036 Sep 14 19:57	26° ⊆ 14'00	18°06'40	evening rise	15037 Aug 04 15:55 15037 Aug 12 06:56	13° m) 10'45	
retrograde	15036 Sep 21 18:31	29° Ω 47'10	10 00 10	asc. node	15037 Aug 16 09:18	20° m/ 14'26	
evening set	15036 Sep 24 00:37	29° ₽ 25'02		use. Houe	15037 Aug 22 06:27	0° م	
inferior conj	15036 Oct 01 02:48	24° £ 33'01	0°01'06	evening max el	15037 Aug 22 00:27 15037 Aug 29 10:08	o — 9° ≏ 29'45	18°02'42
minimum elong	15036 Oct 01 02:51	24° Ω 32'55	0°01'24	retrograde	15037 Sep 04 20:55	12° ♀ 50'55	10 02 12
transit middle	15036 Oct 01 02:51	24° £ 32'55	0°01'24	evening set	15037 Sep 04 20:33	12° ⊆ 17'16	
transit begin	15036 Sep 30 23:31	24° △ 40'29	0 0124	inferior conj	15037 Sep 07 11:14 15037 Sep 13 21:45	7° ⊆ 06'10	1°14'17
transit end	15036 Oct 01 06:11	24° - 4029 24° - 25'19		minimum elong	15037 Sep 13 23:41	7° ⊆ 01'08	1°13'38
desc. node	15036 Oct 01 04:12	24° £ 29′50		min. Earth dist.	15037 Sep 15 25:41 15037 Sep 16 19:01	4° 2 07'48	0.62243 AU
min. Earth dist.	15036 Oct 04 08:19	21° △ 38'19	0.59948 AU	desc. node	15037 Sep 18 01:42	2° 2 54'34	0.02243 AO
morning rise	15036 Oct 04 08:19	18° Ω 49'59	0.57740 AU	morning rise	15037 Sep 18 01:42 15037 Sep 20 09:42	0° £ 59'59	
direct	15036 Oct 08 01:49	16° ⊆ 49'39		morning risc	15037 Sep 20 09:42 15037 Sep 21 23:41	30°RM)	
morning max el	15036 Oct 14 13.22 15036 Oct 28 22:02		27°49'06	direct	15037 Sep 21 23:41 15037 Sep 27 02:05	28° Mg 36'55	
morning max er	15036 Nov 02 20:31	0°M	27 49 00	direct	15037 Sep 27 02:03	0° ⊽	
	15036 Nov 02 20:31 15036 Nov 22 10:11	0 IIL 0° √ 1					27957120
1-	15036 Nov 25 14:16	6° ₹ ¹03'13		morning max el	15037 Oct 11 04:24	6° £ 35'16 0° I L	27 37 30
asc. node morning set		15° ₹ 28'53		asc. node	15037 Oct 29 00:03	25°M52'15	
max. Earth dist.	15036 Nov 30 05:25 15036 Dec 06 09:03	28° x '28 33	1 21120 ATT		15037 Nov 12 11:07 15037 Nov 14 04:46	29°M23'00	
max. Earm dist.		0°る	1.31130 AU	morning set		29 IIG23 00 0° √ 1	
	15036 Dec 06 21:13	0.0		E4h di-4	15037 Nov 14 11:58		1 21 <i>(</i> 72 AII
	1502 (D 07 07:05	00755100	1°29'46	max. Earth dist.	15037 Nov 19 13:11	10° ∡ ′42'30	1.31673 AU
superior conj minimum elong	15036 Dec 07 07:05	0°る55'02 0°る46'06	1°30'37		15027 N 21 16-26	15° ∡ ¹23'07	101755
evening rise	15036 Dec 07 05:29 15036 Dec 13 23:47	15° る 43'52	1 30 37	superior conj minimum elong	15037 Nov 21 16:26 15037 Nov 21 14:15	15° x ' 23' 07' 15° x ' 11'03	1°16'55 1°17'34
evening rise	15036 Dec 13 23:47 15036 Dec 20 23:21	13 ℃ 43 32			15037 Nov 21 14.13 15037 Nov 28 10:14	0° る 13'11	1 1/34
desc. node	15036 Dec 20 23.21 15036 Dec 28 02:09	0 ≈ 12°≈32'29		evening rise	15037 Nov 28 10:14 15037 Nov 28 07:47	0 3 1311	
desc. node	15030 Dec 28 02:09	0°)		desc. node	15037 Nov 28 07.47 15037 Dec 14 23:05	0°≈34'59	
evening max el	15037 Jan 10 10:33	0°) 36'55	25°58'55	desc. Hode	15037 Dec 14 23:05	0 ∞3439 0°≈	
retrograde	15037 Jan 25 00:55	7° ¥ 40′15	23 36 33	evening max el	15037 Dec 14 15:29 15037 Dec 23 15:09	0 ~ 11° ≈ 00'14	24°27'36
evening set	15037 Jan 31 04:15	6° X 11'50		retrograde	15038 Jan 06 07:17	17°≈48'52	24 27 30
min. Earth dist.	15037 Feb 04 15:22	3° ¥ 34′00	0.57651 AU	evening set	15038 Jan 11 12:23	16° ≈ 49'18	
inferior conj	15037 Feb 07 15:21	1° ¥ 26'48		min. Earth dist.	15038 Jan 17 02:53	13°≈58'26	0.55868 AU
minimum elong	15037 Feb 08 00:15	1° X 11'03		inferior conj	15038 Jan 19 09:08	12° ≈ 34'39	
mmmum viong	15037 Feb 09 17:37	30°R≈	. 00 .2	minimum elong	15038 Jan 19 17:07	12° ≈ 22'18	5°23'14
morning rise	15037 Feb 15 23:14	27° ≈ 04'46		morning rise	15038 Jan 27 23:51	8°≈33'06	0 23 1 .
direct	15037 Feb 17 23:32	26°≈51'50		direct	15038 Jan 30 08:00	8° ≈ 18'32	
asc. node	15037 Feb 21 12:20	27° ≈ 34'03		asc. node	15038 Feb 08 09:45	12° ≈ 16'04	
	15037 Feb 25 09:32	0° ∀		morning max el	15038 Feb 09 09:27	13° ≈ 10'46	19°43'44
morning max el	15037 Feb 26 14:13	1° ¥ 05'28	18°43'17		15038 Feb 20 23:23	0° ∀	
morning set	15037 Mar 14 17:29	27°) €01'00		morning set	15038 Feb 26 21:18	11°) 32′22	
3	15037 Mar 16 06:16	0° Υ					
				superior conj	15038 Mar 06 19:27	27° ¥ 29'57	0°50'07
superior conj	15037 Mar 23 12:14	13° Y ′55'46	0°21'48	minimum elong	15038 Mar 06 21:57	27°) 42′17	0°49'52
minimum elong	15037 Mar 23 13:39	14° Y ′02'26	0°21'26		15038 Mar 08 02:02	0° Υ	
desc. node	15037 Mar 26 03:53	18° Ƴ 50'55		max. Earth dist.	15038 Mar 13 00:49	9° Y 25'13	1.37493 AU
max. Earth dist.	15037 Mar 30 18:15	27° Y °05'22	1.39769 AU	desc. node	15038 Mar 13 00:24	9° Ƴ 23'19	
	15037 Apr 01 10:27	0°8		evening rise	15038 Mar 16 17:41	16° Y ′08′13	
evening rise	15037 Apr 03 18:24	3° 8 58'16			15038 Mar 24 22:02	0°8	
	15037 Apr 20 11:10	$\Pi^{\circ}0$			15038 Apr 14 23:48	Π° 0	
evening max el	15037 May 08 15:04	22° Ⅱ 55'48	24°01'14	evening max el	15038 Apr 21 04:38	6° Ⅱ 50′00	25°18'43
retrograde	15037 May 19 18:30	29° Ⅱ 27'49		retrograde	15038 May 03 08:24	13° Ⅱ 52'43	
asc. node	15037 May 20 09:08	29° Ⅲ 26′12		asc. node	15038 May 07 06:24	12° Ⅱ 48'36	
evening set	15037 May 25 03:59	27° Ⅱ 10'42		evening set	15038 May 09 05:18	11° Ⅲ 25'43	
min. Earth dist.	15037 May 29 19:46	21° Ⅱ 46′07	0.68767 AU	min. Earth dist.	15038 May 13 13:28	6° Ⅱ 37'47	0.68006 AU
inferior conj	15037 May 30 14:33	20° Ⅱ 42'16	2°39'01	inferior conj	15038 May 14 21:06	4° Ⅱ 55'04	2°08'11
minimum elong	15037 May 30 12:39	20° Ⅱ 48'43	2°37'41	minimum elong	15038 May 14 18:56	5° Ⅱ 02'07	2°06'44
morning rise	15037 Jun 04 21:21	14° Ⅱ 39'27		_	15038 May 19 03:35	30° ₹ 8	
direct	15037 Jun 08 22:26	13° Ⅱ 06'33		morning rise	15038 May 20 08:56	29° 8 01'59	
morning max el	15037 Jun 16 17:28	17° Ⅱ 29'56	20°14'15	direct	15038 May 23 22:33	27° 8 48'56	
desc. node	15037 Jun 22 04:47	23° Ⅱ 47'59			15038 May 29 02:01	Π °0	
	15037 Jun 26 19:33	0		morning max el	15038 May 30 21:50	1° Ⅱ 37'03	19°12'26

desc. node	15038 Jun 09 01:48	13° Ⅲ 08′02		morning set	15039 Jun 03 22:02	15° Ⅱ 26'40	
greatest brilliancy	15038 Jun 12 17:28	18° Ⅲ 28′29	-0.7m		15039 Jun 13 04:08	0 \circ \odot	
	15038 Jun 20 08:02	0 \circ \circ					
morning set	15038 Jun 24 00:09	5° © 38'28		superior conj	15039 Jun 19 16:59	10°9512'28	-2°09'45
max. Earth dist.	15038 Jul 07 04:25	26°906'16	1.45447 AU	minimum elong	15039 Jun 19 12:06	9° 9 53'24	2°10'33
man, Darvir dige.	15038 Jul 09 15:50	0°Ω	1.10, 110	max. Earth dist.	15039 Jun 20 00:02	10°939'58	1.45935 AU
	15056 Jul 09 15.50	0 86		max. Earm dist.	15039 Jul 20 00:02 15039 Jul 02 08:52	0°Ω	1.43933 AU
	15000 1 1 10 05 10	10.00000	2012126				
superior conj	15038 Jul 10 07:42	1° Ω 02'38		evening rise	15039 Jul 05 13:27	5° Ω 00'59	
minimum elong	15038 Jul 10 10:34	1° Ω 13'57	2°13'27	greatest brilliancy	15039 Jul 14 13:50	19° Ω 08'51	-0.8m
evening rise	15038 Jul 24 22:39	24° Ω 36'58		asc. node	15039 Jul 21 02:40	28° Ω 54'26	
	15038 Jul 28 05:21	0° m y			15039 Jul 21 21:27	0° m y	
asc. node	15038 Aug 03 05:57	9° m 45'40		evening max el	15039 Jul 27 12:26	6° Mp 49′22	18°48'50
evening max el	15038 Aug 13 00:37	23° Mp 04'00	18°17'00	retrograde	15039 Aug 03 04:16	10°Mp27'21	
retrograde	15038 Aug 19 09:28	26° m 26'59		evening set	15039 Aug 06 12:21	9° m 23'19	
evening set	15038 Aug 22 08:26	25° m) 39'05		inferior conj	15039 Aug 12 02:01	3° m)40'59	2°42'17
inferior conj	15038 Aug 28 06:44	20° m/11'18	2°07'11	minimum elong	15039 Aug 12 04:00	3° m/ 34'45	2°41'22
minimum elong	15038 Aug 28 09:07	20° m) 04'23	2°06'14	min. Earth dist.	15039 Aug 12 04:00 15039 Aug 13 20:44	1° m) 27'04	0.66191 AU
•	•			min. Earm dist.	-	-	0.00191 AU
min. Earth dist.	15038 Aug 30 15:28	17° Tp 28'06	0.64375 AU		15039 Aug 15 01:53	30°R€	
morning rise	15038 Sep 03 08:14	13° m 51'30		morning rise	15039 Aug 17 18:44	27° Ω 15'29	
desc. node	15038 Sep 04 23:13	12° m 43'28		desc. node	15039 Aug 22 20:42	24° Ω 42′23	
direct	15038 Sep 09 21:44	11° Mp 16'20		direct	15039 Aug 24 01:07	24° Ω 37'05	
morning max el	15038 Sep 23 14:40	19° m 14'09	27°29'35		15039 Sep 03 14:53	0° m)	
	15038 Oct 02 18:39	0∘ ⊽		morning max el	15039 Sep 06 02:10	2° mp 21'14	26°32'25
	15038 Oct 21 23:51	0° M .			15039 Sep 26 23:07	0∘ ⊽	
morning set	15038 Oct 28 19:31	12°M51'04		morning set	15039 Oct 11 22:38	25° ≏ 46'22	
asc. node	15038 Oct 30 07:52	15°M52'14		morning sec	15039 Oct 14 03:43	0°M	
		22°M13'19	1.32770 AU	may Earth dist	15039 Oct 14 03:43 15039 Oct 15 21:30	3°M24'27	1 24200 ATT
max. Earth dist.	15038 Nov 02 10:13	22 11613 19	1.32//0 AU	max. Earth dist.			1.34398 AU
				asc. node	15039 Oct 17 04:32	5° ™ 58'53	
superior conj	15038 Nov 05 21:47	29°M36'23	0°58'08				
minimum elong	15038 Nov 05 19:29	29°M24'03	0°58'34	superior conj	15039 Oct 20 20:45	13°M29'05	0°33'32
	15038 Nov 06 02:11	0° ∡ ¹		minimum elong	15039 Oct 20 19:02	13°M20'12	0°33'49
evening rise	15038 Nov 12 21:09	14° ∡ ′41′46		evening rise	15039 Oct 28 06:36	29° M 04'57	
	15038 Nov 20 10:42	0° ろ			15039 Oct 28 17:07	0° ∡ ¹	
desc. node	15038 Dec 01 20:08	17° る 30'57			15039 Nov 15 14:30	0°ರ	
evening max el	15038 Dec 05 00:44	20° る 57'35	22°44'36	evening max el	15039 Nov 16 16:48	1° る 07'51	21°07'52
retrograde	15038 Dec 18 01:00	27° る 24'31	22 1130	desc. node	15039 Nov 18 17:17	2° る 57'42	21 0/32
evening set	15038 Dec 21 23:09	26°る50'56		retrograde	15039 Nov 28 11:32	6° る 58'29	
•			0.54500.411	Č .			
min. Earth dist.	15038 Dec 29 09:23	23° る 27'28		evening set	15039 Dec 01 03:38	6°る41'44	
inferior conj	15038 Dec 30 08:28	22° る 54'47		inferior conj	15039 Dec 09 23:27	2° ろ 49'40	
minimum elong	15038 Dec 30 09:21	22° る 53'31	5°59'12	minimum elong	15039 Dec 09 15:43	3° ⋜ 00'38	
morning rise	15039 Jan 07 20:52	19° る 06'39		min. Earth dist.	15039 Dec 10 15:01	2° る 27'39	0.54452 AU
direct	15039 Jan 10 22:41	18° る 44'55			15039 Dec 15 08:48	30°R. ✓	
morning max el	15039 Jan 22 14:07	24° る 20'31	21°07'28	morning rise	15039 Dec 18 04:08	28° ∡ ¹58′26	
asc. node	15039 Jan 26 07:06	28° る 25'39		direct	15039 Dec 22 05:53	28° х 22'43	
	15039 Jan 27 12:22	0° ≈ ≈			15039 Dec 28 18:55	0°ჳ	
morning set	15039 Feb 11 06:02	26° ≈ 14'12		morning max el	15040 Jan 04 05:26	4° ප් 40'15	22°50'13
morning sec	15039 Feb 13 01:13	0°) €		asc. node	15040 Jan 13 04:22	15° る 44'31	22 30 13
	13037100 13 01.13	٠ ٨		asc. node	15040 Jan 21 08:43	0° ≈	
aunaries cos:	15020 Eak 10 12:55	11°) 33'48	1011147	marning act	15040 Jan 21 08:43	0°≈ 10°≈58'57	
superior conj	15039 Feb 18 13:55			morning set	15040 Jan 26 17:18	10°≈38'37	
minimum elong	15039 Feb 18 16:28	11°) (46'54					
max. Earth dist.	15039 Feb 23 10:22	21° ∺ 21′09	1.35362 AU	superior conj	15040 Feb 02 16:14		1°26'50
evening rise	15039 Feb 27 10:14	29° ₭ 00'56		minimum elong	15040 Feb 02 18:10	26° ≈ 07'16	1°27'17
desc. node	15039 Feb 27 20:56	29° ∺ 50′52			15040 Feb 04 14:00	0° ∀	
	15039 Feb 27 22:54	0° Y		max. Earth dist.	15040 Feb 06 02:25	3° ¥ 10′32	1.33572 AU
	15039 Mar 18 03:18	0°B		evening rise	15040 Feb 10 16:29	12° ¥ 26′29	
evening max el	15039 Apr 03 18:15	20° 8 39'15	26°24'59	desc. node	15040 Feb 14 17:29	20° 米 08'39	
retrograde	15039 Apr 16 17:16	28° 8 01'38			15040 Feb 20 06:41	0° Υ	
evening set	15039 Apr 23 00:31	25° 8 29'32			15040 Mar 12 06:47	0°8	
=	-	_		ovening mas1		4° 8 14'15	27012142
asc. node	15039 Apr 24 03:43	24° 8 29'20	0.66700 411	evening max el	15040 Mar 16 07:43		21 1242
min. Earth dist.	15039 Apr 27 02:27	21° 8 16'49	0.66798 AU	retrograde	15040 Mar 29 20:15	11° 8 44'47	
inferior conj	15039 Apr 28 22:56	19° 8 01'42	1°26'04	evening set	15040 Apr 05 11:32	9° 8 13'46	
minimum elong	15039 Apr 28 21:02	19° 8 07'28	1°24'45	min. Earth dist.	15040 Apr 09 08:44	5° 8 33'43	0.65182 AU
morning rise	15039 May 04 18:33	13° 8 19'44		asc. node	15040 Apr 10 01:05	4° 8 48'51	
direct	15039 May 07 21:31	12° 8 24'55		inferior conj	15040 Apr 11 17:36	2° 8 55'19	0°31'41
morning max el	15039 May 14 08:59	15° 8 50'55	18°26'42	minimum elong	15040 Apr 11 16:45	2° 8 57'43	0°30'55
-	15039 May 25 01:08	$\Pi^{\circ}0$		-	15040 Apr 14 12:04	30° ₽ Υ	
desc. node	15039 May 26 22:43	2° I 55'11		morning rise	15040 Apr 17 23:44	27° Y ′26'16	
	1.10, 20 22.13				22.1.1.p. 1/ 20.17	0 10	

	direct	15040 Apr 20 17:08 15040 Apr 26 23:21	26° Ƴ 46'51 0° ႘		morning rise direct	15041 Apr 01 21:27 15041 Apr 04 06:40	11° Υ 15'17 10° Υ 47'53	
Second 1900 May 19 2214 20 20 20 20 20 20 20 2	•	-		17°57'50	morning max el	1		17°46'20
Superior conj 1500 May 17 01.28 0.71			23° 8 01'19				_	
Superior comp 15404 May 29 16-64 19°E18818 14°F144 14°F144 14°F144 14°F144 15°F144 15°F1	morning set	•	_		•	•	_	
minimum of max. Earth dis. 1900 Jun of 1903 1915 9°TI0393 1479 Zero max. Earth dist 1900 Jun of 1903 1976 2000 Jun of 1903 1900 Jun of 1903 1903 Jun of 1903		15040 May 17 01:28	Π $^{\circ}$ 0		desc. node	15041 Apr 29 16:13	13° 8 20'50	
minimum of max. Earth dis. 1900 Jun of 1903 1915 9°TI0393 1479 Zero max. Earth dist 1900 Jun of 1903 1976 2000 Jun of 1903 1900 Jun of 1903 1903 Jun of 1903	superior coni	15040 May 20, 06:04	100Π38/38	1047'43	superior coni	150/11 May 00 13:22	200\\$57!17	1013'07
Max. Earth dist		•				•		
1949 1949	•	•			minimum clong	-	_	1 1237
Second 1990 M 14 07.25 14°23814 180 1901 180 1902 180 1903 180 1903 180 1903 180 1903 180 1903 180 1903 180 1903 180 1903 180 1903 180	max. Lartii dist.			1.43070 AC	may Farth dist	,		1 44691 AII
1900 1900 1910 1912 1914	evening rise					,		1.11071710
generate brillance 1900 du 0 20 225 272275 9.6 1900	evening rise				evening rise	,		
Secondary 1590 0 1 0 0 1 0 2 2 20 1 7 2 1 2 2 0 0 1 1	greatest brilliancy			-0.6m				
Powering max of 1900 bit 1922 2072 3975 1937 100 200 200 2072 2073 2073 2074 2				0.0111	evening max el			20°40'01
Performance 1504 Jul 17 2216 247,04505 evening set 1504 Jul 10 10.13 97,01545 evening set 1504 Jul 10 50.532 77,02558 inferior conj 1504 Jul 10 10.16 17,02554 379955 inferior conj 1504 Jul 10 11.26 17,02555 379554 inferior conj 1504 Jul 11 10 11.26 17,02555 379554 inferior conj 1504 Jul 11 10 11.26 17,02555 379554 inferior conj 1504 Jul 11 10 11.26 17,02555 37954 inferior conj 1504 Jul 11 10 12 17,02555 379564 inferior conj 1504 Jul 11 10 12 17,02555 379564 inferior conj 1504 Jul 11 10 12 17,02555 inferior conj 1504 Jul 11 12 15 1722 25 25 2795673 inferior conj 1504 Jul 11 13 13 13 13 13 13 1				19°37'10	•			
Second 1504 Dut 20 2016 23°422376	•	15040 Jul 17 02:16	24° Ω 45'05		retrograde	15041 Jul 01 01:13	9° Ω 14'40	
inferior conj 15040 Jul 26 04.27 7.92.2810 3.902.26 inferior conj 15041 Jul 10 11.36 1.92.8813 3.909.55 minimum elong 15040 Jul 13 14.33 1.92.881	•	15040 Jul 20 20:06			•	15041 Jul 05 05:32		
min Earth dist. 15040 Jul 27 09.01 15/25/23 0.67598 AU min. Earth dist. 15041 Jul 1 1 0.213 0/Q.3755 0.68549 AU direct 15040 Aug 80 11.02 8°4/2979 morning rise 15041 Jul 1 5 17.22 25°50731 desc. node 15040 Aug 80 18.08 8°4/2979 direct 15041 Jul 1 5 17.22 25°50731 morning max el 15040 Aug 30 07.40 0°P morning max el 15040 Aug 30 07.40 0°P morning max el 15040 Sep 18 20.28 23°47304 mox. Earth dist. 15040 Sep 23 10.18 7°2.5954 morning set 15040 Sep 10 10.13 26°5.537 0°3.42 15041 Jul 1 3 12.340 29°9.6158 23°47304 superior conj 15040 Oct 03 10.25 26°5.537 0°332 15041 Jul 1 3 12.340 25°9.6537 138830 AU behind sun end 15040 Oct 03 10.25 26°5.530 0°352 15040 Jul 1 3 18.23 25°9.6237 0°302 evening rise 15040 Oct 03 10.25 27°5.62207 morning set 15040 Sep 16 11.11 9°4.2214 0°3042 behind sun end 15040 Oct 03 10.25 27°5.62200 15°8.2000	•	15040 Jul 26 04:27	17° Ω 28'30	3°02'26	-	15041 Jul 10 11:26	1° Ω 28'54	3°09'55
Montrogrise 15040 Aug 08 11-02 8°42059 moming rise 15041 Jul 1 1 13-17 30°425 moming max el 15040 Aug 08 18:08 8°42059 moming max el 15040 Aug 18 13-07 15744'31 25°151'0 desc. node 15041 Jul 2 1 0:21 22°234'31 27°34'31 15040 Aug 18 13-07 15040 Aug 18 13-07 15040 Aug 07 07 0 70	minimum elong	15040 Jul 26 05:35	17° Ω 24'42	3°01'36	minimum elong	15041 Jul 10 11:36	1° Ω 28′20	3°09'02
diece	min. Earth dist.	15040 Jul 27 09:01	15° Q 53′23	0.67598 AU	min. Earth dist.	15041 Jul 11 02:13	0° Ω 37'55	0.68549 AU
desc. node 15040 Aug 18 13.07 15°24041 2°1510 desc. node 15041 Jul 21 0.213 2°25675 2°3675 2°37100 15040 Aug 18 13.07 15°4041 12°1510 desc. node 15041 Jul 31 23.40 2°753105 2°37100 15040 Aug 10 16.25 0°40 15040 Sep 18 20 20 20 20 1018 7°45954 15041 Aug 40 16.25 0°40 15041 Aug 40 16.25 0°40 A	morning rise	15040 Jul 31 14:33	11° Ω 03′10			15041 Jul 11 13:17	30° ₹ 5	
moming max el 15040 Aug 18 13-07 15√04/31 25°1510 desc. node 15041 Jul 26 15-32 24°26487 25°1658 25°4730 25°400 Aug 30 0°40 0°40 15040 Aug 10 131 23/40 25°26168 25°4730 25°47	direct	15040 Aug 06 11:02	8° Ω 29'59		morning rise	15041 Jul 15 17:22	25° © 07'31	
15040 Aug 30 07.40 0°Pg 15040 Aug 30 07.40 0°Pg 15040 Sep 18 07.40 15040 Sep 18 07.40 15040 Sep 18 07.40 15040 Sep 23 10.18 7°Pg 5954 15041 Aug 24 01.61 15041 Aug 24 01.61 15041 Aug 24 01.62 0°Pg 10.70 15041 Aug 24 01.61 15041 Sep 11 04.35 0°Pg 10.70 15040 Cet 03 10.12 15040 Cet 03 03.57 15040 Cet 03 03.	desc. node	15040 Aug 08 18:08	8° Ω 50'16		direct	15041 Jul 21 02:13	22°5546'31	
15040 Sep 18 20.28 0°£ 1.3647 Sep 1.5041 Sep 0.20 cop 1.9 Tip 2.0 cop 1.5041 Sep 0.20 cop 1.5041 Sep	morning max el	15040 Aug 18 13:07	15° Ω 44'31	25°15'10	desc. node	15041 Jul 26 15:32	24°5544'57	
max. Earth dist. 15040 Sep 2s 10.18 7°.Δeys" 1.640 F5A 1.640 Sep 2c 2s.3s 14°.Δeys" 1.640 F5A 1.6		15040 Aug 30 07:40	0° m		morning max el	15041 Jul 31 23:40	29°516'58	23°47'30
Superior conj 15040 Sep 26 23:39 48°Δ2930 136475 AU morning set 15041 Sep 05 02.08 19°Mp 20°2 138830 AU 15041 Sep 08 21:49 25°Mp 637 138830 AU 15041 Sep 08 21:49 25°Mp 637 138830 AU 15040 Oct 03 10:25 26°Δ5431 0°0334 0°0334 15040 Oct 03 03:57 26°Δ2303 0°0522 15040 Oct 03 03:57 27°Δ2402 15040 Oct 03 16:25 27°Δ2402 15040 Oct 03 16:25 27°Δ2402 15040 Oct 03 03:57 15°Mp 172 15°Mp		15040 Sep 18 20:28	0∘ ⊽			15041 Aug 01 16:25	$0^{\circ}\Omega$	
superior conj 15040 Oct 03 10:54 26 % 54:73 0°03/34 max. Earth dist. 15040 Sep 11 043 25 % 56:37 3.8830 AU minimum clong 15040 Oct 03 10:11 26 % 54:303 0°0352 ************************************	morning set	15040 Sep 23 10:18	7° ≙ 59'54			15041 Aug 24 01:58	0° ™	
Superior conj 15040 Oct 03 10.25 26° 4581/3 0°03/34 Superior conj 15041 Sep 11 04.35 0° 42 Superior conj 15041 Sep 16 11.11 9° 42° 34 0° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30.15 26° 42° 20° 30° 30° 30° 30° 30° 30° 30° 30° 30° 3	max. Earth dist.	15040 Sep 26 23:39	14° ≏ 29'30	1.36475 AU	morning set	15041 Sep 05 02:08	19° m 20'29	
behind sun begin 15040 Oct 03 10:11 26°£3730 0°03/52 15041 Sep 16 11:11 9°£42′34 0°30/42 15040 Sep 16 15041 Sep 16 11:11 9°£42′34 0°30/42 15040 Sep 16 15041 Sep 16 15:13 9°£42′34 0°30/15 15040 Sep 16 15:04 Sep 16 15:					max. Earth dist.	15041 Sep 08 21:49	25° m 56'37	1.38830 AU
Behind sun begin 15040 Oct 03 03:57 26°-\$22'07 superior conj 15041 Sep 16 11:11 9°-\$42'34 0-30'042 behind sun end 15040 Oct 03 01:05 27°-\$24'02 minimum elong 15041 Sep 16 11:11 9°-\$42'34 0-30'15 asc. node 15040 Oct 04 23:39 26°-\$26'31 78'-\$27'31 15040 Oct 04 23:39 26°-\$26'31 78'-\$27'31 15040 Oct 04 23:39 0°-\$1. cvening rise 15041 Sep 25 12:03 27°-\$211'49 cvening rise 15040 Oct 10 12:27 13°*11.723 cvening max el 15041 Oct 20 05'42 0°-\$2" evening max el 15041 Oct 20 05'42 23°-\$2" 14'32 16°-\$23'01 cvening set 15041 Oct 20 15'42 27°-\$11.51 17°-\$30'01 cvening set 15041 Oct 20 15'46 27°-\$11.81*4 23°-\$11.81*4	superior conj	15040 Oct 03 10:25	26° ≏ 54'13	0°03'34		15041 Sep 11 04:35	0∘ ⊽	
Behind sun end 15040 Oct 03 16-25 27°£24'02 sac. node 15041 Sep 16 13-23 9°£52'56 0°30'15 sac. node 15041 Sep 19 21-34 16°£16'8 sac. node 15040 Oct 11 12-27 13°£11'723 sac. node 15041 Sep 26 22-31 27°£11'49 sac. node 15041 Sep 26 22-31 27°£11'49 sac. node 15041 Sep 26 22-31 0°£16'8 sac. node 15040 Oct 28 22-34 12°₹0'15'15 19°49'15 sevening max el 15041 Oct 12 0 82-82 38°£10'33'4 18°52'33 sac. node 15040 Nov 04 14'32 16°₹3'80'1 sevening set 15041 Oct 20 08-28 38°£10'33'4 18°52'33 sac. node 15040 Nov 18 20'47 12°₹5'33 49°17'08 minimum elong 15040 Nov 18 20'47 12°₹5'33 49°17'08 minimum elong 15040 Nov 18 10'53 13°₹3'62'3 50°5128 AU minimum elong 15041 Nov 02 11'44 21°£12'55 0.56619 AU minimum elong 15040 Nov 18 20'47 12°₹5'33 49°17'08 minimum elong 15040 Nov 20 21'53 11°₹3'62'3 24°39'39 morning max el 15040 Nov 20 21'53 14°₹3'53'2 24°39'39 sac. node 15041 Nov 20 21'44 17°£12'43 34°£13'12 morning max el 15041 Nov 20 21'44 17°£12'43 34°£13'12 morning max el 15040 Nov 20 18'18 8°₹3'93'51 morning max el 15040 Nov 20 18'18 8°₹3'93'51 morning max el 15040 Nov 20 18'18 8°₹3'93'51 morning max el 15041 Nov 20 11'44 17°£2'43 34°£13'12	-	15040 Oct 03 10:11	26° ჲ 53'03	0°03'52				
asc. node	_	15040 Oct 03 03:57	26° ≏ 22'07				9° ≏ 42'34	-0°30'42
evening rise					C	-		0°30'15
Pevening rise 15040 Oct 1 1 12:27 13°M1723 evening max el 15041 Oct 1 1 18:14 23°M1354 18°52'33 Pevening max el 15040 Oct 2 8 22:34 12°×70'115 19°49'15 retrograde 15041 Oct 2 0 68:28 28°M.03'34 Pevening set 15040 Nov 0 4 14:32 16°×73'01 evening set 15041 Oct 2 0 68:28 28°M.03'34 Pevening set 15040 Nov 0 8 02:11 17°×70'50'4 desc. node 15041 Oct 2 0 15:35 27°M.48'32 Pevening set 15040 Nov 10 0 1:58 16°×73'51'3 desc. node 15041 Oct 2 0 11:53 27°M.48'32 Pevening set 15040 Nov 10 0 1:58 16°×73'51'3 desc. node 15041 Oct 30 11:46 22°M13'32 Pevening set 15040 Nov 18 10:53 13°×708'49 4°13'12 minimum elong 15041 Nov 0 7 02:07 18°M.43'56 Perming rise 15040 Nov 18 10:53 13°×708'49 4°13'12 minimum elong 15041 Nov 0 7 02:07 18°M.43'56 Perming rise 15040 Nov 12 02:05 11.93'35'32 24°39'39 direct 15041 Nov 0 7 02:07 18°M.43'56 Perming max el 15040 Dec 10 19:33 7°×73'33'3 morning max el 15041 Nov 12 02:11 17°M.22'43 Perming set 15040 Dec 10 19:33 7°×73'33'3 morning max el 15041 Dec 10 123:59 0°×7 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 10 123:59 0°×7 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°541'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan 10 05:14 25°641'42 morning set 15041 Dec 20 17:04 10°517'00 Perming set 15041 Jan	asc. node							
evening max el 15040 Oct 20 05:42 0°\$\frac{2}{\text{Pol} \color 1} 19°49'15 19°49'15 19°49'15 19°49'15 15041 Oct 20 08:28 28°\text{R.03'34} 18°52'33 18°52'34 18°52'					evening rise			
evening max el desc. node 15040 Nov 04 14:32 16*30'01 cevening set 15041 Oct 22 08:28 28*\\$03'34 cevening set 15041 Oct 22 08:46 27*\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$	evening rise					•		
evening set 15040 Nov 04 14:32 16°\$30'01 evening set 15041 Oct 22 05:46 27°\$					Č			18°52'33
cevening set 15040 Nov 08 02:11 17° x05'04 desc. node 15041 Oct 22 11:53 27° πL48'32 cevening set 15040 Nov 10 01:58 16° x54'17 inferior conj 15041 Oct 30 11:46 23° mL32'38 2°32'37 inferior conj 15040 Nov 18 20:47 12° x5'333 4°1708 minimum elong 15041 Oct 30 05:26 23° mL43'52 2°29'26 minimum elong 15040 Nov 18 10:53 13° x08'49 4°13'12 minimam elong 15040 Nov 10 01:18 12° x5'36'23 0.55128 AU minimum elong 15041 Nov 07 02:07 18° mL43'56 0.56619 AU minimam elong 15040 Nov 10 01:19 12° mL23'53 0.5619 AU morning rise 15040 Nov 10 01:19 13° x3'32 24°39'39 morning max el 15040 Dec 15 14:30 14° x3'35'2 24°39'39 asc. node 15041 Dec 10 10:33 3° x5'62'7 asc. node 15040 Dec 15 14:30 14° x3'35'2 24°39'39 asc. node 15041 Dec 10 10:35 0° x 25° x4'12'5 asc. node 15040 Dec 30 01:33 3° x5'62'7 asc. node 15041 Dec 10 10:35 0° x 25° x4'12'5 asc. node 15041 Jan 10 05:14 25° x4'14'2 morning set 15041 Dec 10 10:35 0° x 22° x4'12'5 asc. node 15041 Jan 10 05:14 25° x4'14'2 morning set 15041 Dec 20 17:04 0° x 37'58 asc. node 15041 Jan 10 05:14 25° x4'14'2 morning set 15041 Dec 20 17:04 0° x 37'58 37'	•			19°49'15	•			
Sevening set 15040 Nov 10 01:58 16°\$54'17 15040 Cet 30 11:46 23°™32'38 22°32'37 16°16'10' conj 15040 Nov 18 20:47 12°\$53'33 4°17'08 minimum elong 15041 Oct 30 05:26 23°™43'54 2°29'26 minimum elong 15040 Nov 18 10:53 13°\$708'49 4°13'12 min. Earth dist. 15041 Nov 02 11:14 21°™25'55 0.56619 AU min. Earth dist. 15041 Nov 02 11:14 21°™25'55 0.56619 AU min. Earth dist. 15040 Nov 26 18:18 8°\$₹39'51 direct 15041 Nov 07 02:07 18°™43'56 18°™43'56 direct 15041 Nov 12 22:11 17°™22'43 direct 15040 Dec 01 19:33 7°\$₹43'37 morning max el 15040 Dec 15 14:30 14°\$₹35'32 24°39'39 15041 Dec 16 23:59 0°\$₹ 38c. node 15040 Dec 30 01:33 3°\$56'27 morning set 15041 Dec 20 17:04 0°\$₹ 10°\$₹17:00 15041 Jan 10 05:14 25°\$₹11'42 morning set 15041 Dec 20 17:04 0°\$₹ 10°\$₹17:00 10°\$₹17:00 15041 Jan 11 0 05:14 25°\$₹11'42 morning set 15041 Dec 20 17:04 0°\$₹ 1°38'53 minimum elong 15041 Jan 17 00:45 10°\$\$₹37:11 1°35'28 minimum elong 15042 Jan 01 10:11 25°\$₹11'50 1°38'53 minimum elong 15041 Jan 19 02:12 15°\$\$₹07:19 1.32237 AU evening rise 15042 Jan 03 14:04 0°\$\$\$ 1°38'53 1°38'53 1°38'14 1°5041 Jan 19 02:12 15°\$\$\$\$ 0°\$\$\$ 1°38'53 1					•			
minferior conj 15040 Nov 18 20:47 12°₹53'33 4°17'08 minimum elong 15041 Oct 30 05:26 23°π¼3'54 2°29'26 minimum elong 15040 Nov 20 18 10:53 13° ₹08'49 4°13'12 min. Earth dist. 15041 Nov 02 11:14 21°π¼25'55 0.56619 AU morning rise 15040 Nov 20 22:50 11°₹36'23 0.55128 AU morning rise 15041 Nov 07 02:07 18°π¼35'62 morning max el 15040 Dec 16 19:33 7° ₹43'37 morning max el 15040 Dec 15 14:30 14°₹35'32 24°39'39 15041 Dec 10 22:59 0° ₹ asc. node 15040 Dec 27 16:06 0° ₹ asc. node 15040 Dec 30 01:33 3°₹56'27 morning set 15041 Dec 10 20:59 0° ₹ asc. node 15041 Jan 10 05:14 25°₹41'42 morning set 15041 Dec 20 17:04 0° ₹ asc. node 15041 Jan 10 05:14 25°₹41'42 morning set 15041 Dec 20 17:04 0° ₹ asc. node 15041 Jan 10 05:14 0° ≈ superior conj 15042 Jan 01 10:11 0° 7° 25° 51:23 1° 37'88 O' 8	•							2022127
minimum elong minimum elong min. Earth dist. 15040 Nov 2 11:14 15040 Nov 2 12:55 17.3 × 30.849 4°13'12 min. Earth dist. 15040 Nov 2 11:14	Č			4017100				
min. Earth dist.	-				_			
morning rise 15040 Nov 26 18:18 8°₹39'51 direct 15041 Nov 12 22:11 17°πL22'43 direct 15040 Dec 01 19:33 7°₹43'37 morning max el 15041 Dec 01 23:59 0°₹ 15040 Dec 27 16:06 0°€ asc. node 15041 Dec 16 22:39 22°\$747'25 asc. node 15040 Dec 27 16:06 0°€ asc. node 15041 Dec 01 23:59 0°₹ asc. node 15041 Dec 01 23:59 0°₹ asc. node 15040 Dec 27 16:06 0°€ morning set 15041 Jan 10 05:14 25°€41'42 morning set 15041 Dec 20 17:04 0°€ morning set 15041 Jan 10 05:14 25°€41'42 morning set 15041 Dec 25 16:04 10°€17'00 15041 Jan 12 04:51 0°≈ superior conj 15042 Jan 01 10:17 25°€12'23 1°37'58 superior conj 15041 Jan 17 00:45 10°≈32'11 1°35'28 minimum elong 15042 Jan 01 10:11 25°€11'50 1°38'53 minimum elong 15041 Jan 17 00:45 10°≈37'31 1°36'14 max. Earth dist. 15042 Jan 02 07:47 27°€12'07 1.31398 AU max. Earth dist. 15041 Jan 26 05:32 0°¾ desc. node 15042 Jan 03 14:04 0°≈ evening rise 15042 Jan 18 10:49 29°≈54'24 desc. node 15041 Jan 26 05:32 0°¾ desc. node 15042 Jan 18 10:49 29°≈54'24 desc. node 15041 Jan 12 16:09 24°¶52'52 evening max el 15042 Feb 09 04:08 29°§56'03 27°24'37 evening set 15041 Mar 12 16:09 24°¶52'52 retrograde 15042 Mar 01 23:05 5°¶0'39 min. Earth dist. 15042 Mar 01 23:05 5°¶0'39 min. Earth dist. 15042 Mar 01 23:05 5°¶0'39 min. Earth dist. 15042 Mar 01 25:05 15042 Mar 01 23:05 5°¶0'39 min. Earth dist. 15042 Mar 01 23:05 25°¶0'39 devening set 15041 Mar 23 06:33 19°¶1'838 0.63236 AU min. Earth dist. 15042 Mar 08 09:57 30°₹€ 25°¶0'34 4°§54'51 4°§54'5	•							0.30019 AU
direct 15040 Dec 01 19:33 7° × 43'37 morning max el 15041 Nov 27 02:13 24° 11.40'59 26° 17'27 morning max el 15040 Dec 15 14:30 14° × 35'32 24° 39'39 asc. node 15041 Dec 01 23:59 0° × asc. node 15040 Dec 27 16:06 0° ♥ asc. node 15041 Dec 16 22:39 22° × 47'25 asc. node 15041 Dan 10 05:14 25° ♥ 41'42 morning set 15041 Dec 20 17:04 0° ♥ 15041 Jan 10 05:14 25° ♥ 41'42 morning set 15041 Dec 25 16:04 10° ♥ 17'00 15041 Jan 12 04:51 0° ∞ superior conj 15042 Jan 01 10:17 25° ₱ 12'23 1° 37'58 superior conj 15041 Jan 16 23:46 10° ∞ 37'31 1° 35'28 minimum elong 15042 Jan 01 10:11 25° ₱ 11'50 1° 38'53 minimum elong 15041 Jan 19 02:12 15° ∞ 07'19 1.32237 AU max. Earth dist. 15042 Jan 03 14:04 0° ∞ evening rise 15041 Jan 24 09:18 26° ∞ 17'25 evening rise 15042 Jan 08 09:52 10° ∞ 26'01 desc. node 15041 Jan 31 14:06 10° × 12'04 desc. node 15042 Jan 18 10:49 29° ∞ 54'24 desc. node 15041 Feb 12 15:43 0° ♥ evening max el 15042 Feb 09 04:08 29° × 56'03 27° 24'37 evening max el 15041 Feb 26 19:49 17° × 24'14 27° 34'35 retrograde 15042 Feb 09 05:48 0° × 16'09 evening set 15041 Mar 19 12:00 22° × 30'14 evening set 15042 Mar 01 23:05 5° × 09'09'39 minimum elong 15041 Mar 23 06:33 19° × 18'38 0.63236 AU min. Earth dist. 15042 Mar 08 09:57 30° × 16'51 minimum elong 15041 Mar 26 03:26 16° × 26'11 0° 35'14 inferior conj 15042 Mar 08 09:57 30° × 14'51 minimum elong 15041 Mar 26 03:26 16° × 26'11 0° 35'14 inferior conj 15042 Mar 08 21:35 29° × 34'04 -1° 54'51 15041 Mar 26 03:26 16° × 26'11 10° 35'14 inferior conj 15042 Mar 08 21:35 29° × 34'04 -1° 54'51 15041 Mar 26 03:26 16° × 26'11 10° 35'14 inferior conj 15042 Mar 08 21:35 29° × 34'04 -1° 54'51 15041 Mar 26 03:26 16° × 26'11 10° 35'14 inferior conj 15042 Mar 08 21:35 29° × 34'04 -1° 54'51				0.33128 AU	=			
morning max el 15040 Dec 15 14:30	-							26°17'27
asc. node 15040 Dec 27 16:06 0°€ asc. node 15041 Dec 16 22:39 22° x² 47'25 15041 Dec 20 17:04 0°€ 15041 Dec 20 17:04 0°€ 15041 Jan 10 05:14 25° ₹41'42 morning set 15041 Dec 25 16:04 10° ₹17'00 15041 Jan 12 04:51 0°≈ 15041 Jan 16 23:46 10°≈32'11 1°35'28 minimum elong 15042 Jan 01 10:11 25° ₹11'50 1°38'53 15041 Jan 17 00:45 10°≈32'11 1°35'28 minimum elong 15042 Jan 01 10:11 25° ₹11'50 1°38'53 15041 Jan 17 00:45 10°≈37'31 1°36'14 max. Earth dist. 15042 Jan 03 14:04 0°≈ 15041 Jan 19 02:12 15°≈07'19 1.32237 AU evening rise 15042 Jan 03 14:04 0°≈ 15041 Jan 26 05:32 0°\€ desc. node 15042 Jan 18 10:49 29°≈54'24 desc. node 15041 Jan 31 14:06 10°\€12'04 40°\€12 40°\€12 40°\€12 40°\€12 40°\€12 40°\€14				24°39'39	morning max cr			20 1727
asc. node 15040 Dec 30 01:33 3°\sigma 566'27 morning set 15041 Jan 10 05:14 25°\sigma 41'42 morning set 15041 Jan 10 05:14 25°\sigma 41'42 morning set 15041 Dec 25 16:04 10°\sigma 17'00 15041 Jan 12 04:51 0°\sigma 15041 Jan 12 04:51 0°\sigma 15041 Jan 12 04:51 0°\sigma 15041 Jan 16 23:46 10°\sigma 32'11 1°35'28 minimum elong 15042 Jan 01 10:11 25°\sigma 11'50 1°38'53 minimum elong 15041 Jan 17 00:45 10°\sigma 37'31 1°36'14 max. Earth dist. 15042 Jan 02 07:47 27°\sigma 12'07 1.31398 AU max. Earth dist. 15041 Jan 19 02:12 15°\sigma 07'19 1.32237 AU evening rise 15042 Jan 03 14:04 0°\sigma 29°\sigma 54'24 evening rise 15041 Jan 14 06 05:32 0°\tau 4 09:18 26°\sigma 17'25 evening rise 15042 Jan 18 10:49 29°\sigma 54'24 evening max el 15041 Feb 12 15:43 0°\sigma 15041 Feb 12 15:43 0°\sigma 15042 Feb 09 05:48 0°\sigma 15041 Feb 12 15:43 0°\sigma 15042 Feb 09 05:48 0°\si	morning max or			2. 3737	asc. node			
morning set 15041 Jan 10 05:14 25°₹41'42 morning set 15041 Dec 25 16:04 10°₹17'00 15041 Jan 12 04:51 0°≈ superior conj 15042 Jan 01 10:17 25°₹12'23 1°37'58 superior conj 15041 Jan 16 23:46 10°≈32'11 1°35'28 minimum elong 15042 Jan 01 10:11 25°₹11'50 1°38'53 minimum elong 15041 Jan 17 00:45 10°≈37'31 1°36'14 max. Earth dist. 15042 Jan 02 07:47 27°₹12'07 1.31398 AU max. Earth dist. 15041 Jan 19 02:12 15°≈07'19 1.32237 AU evening rise 15042 Jan 03 14:04 0°≈ evening rise 15041 Jan 24 09:18 26°≈17'25 evening rise 15042 Jan 08 09:52 10°≈26'01 evening max el 15041 Jan 31 14:06 10° ★12'04 evening max el 15042 Feb 09 04:08 29° ★54'24 evening max el 15041 Feb 12 15:43 0°Ψ evening max el 15042 Feb 09 05:48 0°Ψ evening set 15042 Feb 09 05:48	asc. node				use. Itsue			
15041 Jan 12 04:51 0° ≈					morning set			
superior conj 15041 Jan 16 23:46 10°≈32'11 1°35'28 minimum elong 15042 Jan 01 10:17 25°₹12'23 1°37'58 minimum elong 15041 Jan 17 00:45 10°≈37'31 1°36'14 max. Earth dist. 15041 Jan 17 00:45 10°≈37'31 1°36'14 max. Earth dist. 15041 Jan 19 02:12 15°≈07'19 1.32237 AU evening rise 15041 Jan 24 09:18 26°≈17'25 evening rise 15042 Jan 08 09:52 10°≈26'01 15042 Jan 08 09:52 10°≈26'01 15041 Jan 26 05:32 0° ★ desc. node 15042 Jan 18 10:49 29°≈54'24 desc. node 15042 Jan 18 12:05 0° ★ evening max el 15041 Feb 12 15:43 0° ♀ evening max el 15042 Feb 09 04:08 29° ★56'03 27°24'37 evening set 15041 Mar 12 16:09 24° ♀52'52 retrograde 15042 Feb 09 05:48 0° ♀ retrograde 15041 Mar 19 12:00 22° ♀30'14 evening set 15042 Mar 01 23:05 5° ♀09'39 min. Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15041 Mar 26 03:26 16° ♀26'01 16° ♀26'01 16° ♀26'01 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 15042 Mar 08 09:57 30° ₹ πin Earth dist. 1504	5							
minimum elong max. Earth dist. 15041 Jan 17 00:45 10°≈37'31 1°36'14 max. Earth dist. 15042 Jan 02 07:47 27°₹12'07 1.31398 AU 15042 Jan 03 14:04 0°≈ evening rise 15041 Jan 19 02:12 15°≈07'19 1.32237 AU evening rise 15042 Jan 03 14:04 0°≈ evening rise 15041 Jan 24 09:18 26°≈17'25 evening rise 15042 Jan 18 10:49 29°≈54'24 desc. node 15042 Jan 18 10:49 29°≈54'24 desc. node 15042 Jan 18 12:05 0° ★ evening max el 15041 Feb 12 15:43 0° ↑ evening max el 15041 Feb 26 19:49 17° ↑ 24'14 27°34'35 retrograde 15042 Feb 09 05:48 0° ↑ retrograde 15041 Mar 12 16:09 24° ↑ 52'52 retrograde 15042 Feb 23 03:39 7° ↑ 16'31 evening set 15041 Mar 19 12:00 22° ↑ 30'14 evening set 15042 Mar 01 23:05 5° ↑ 09'39 min. Earth dist. 15041 Mar 23 06:33 19° ↑ 18'38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2° ↑ 20'06 0.61071 AU inferior conj 15041 Mar 26 03:26 16° ↑ 26'11 0°35'14 inferior conj 15042 Mar 08 21:35 29° ★ 34'04 -1°54'51					superior conj	15042 Jan 01 10:17	25° る 12'23	1°37'58
max. Earth dist. 15041 Jan 19 02:12 15°≈07′19 1.32237 AU evening rise 15042 Jan 03 14:04 0°≈ evening rise 15041 Jan 24 09:18 26°≈17′25 evening rise 15042 Jan 08 09:52 10°≈26′01 evening rise 15041 Jan 26 05:32 0° ★ desc. node 15042 Jan 18 10:49 29°≈54′24 evening max el 15041 Feb 12 15:43 0° ♥ evening max el 15042 Feb 09 04:08 29° ★ 56′03 27°24′37 evening max el 15041 Feb 26 19:49 17° ♥ 24′14 27°34′35 retrograde 15042 Feb 09 05:48 0° ♥ evening set 15041 Mar 12 16:09 24° ♥ 52′52 retrograde 15042 Feb 23 03:39 7° ♥ 16′31 evening set 15041 Mar 19 12:00 22° ♥ 30′14 evening set 15042 Mar 01 23:05 5° ♥ 09′39 min. Earth dist. 15041 Mar 23 06:33 19° ♥ 18′38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2° ♥ 20′06 0.61071 AU inferior conj 15041 Mar 26 03:26 16° ♥ 29′05 -0°35′32 15042 Mar 08 09:57 30° ₹ ★ 10° ₹ 1	superior conj	15041 Jan 16 23:46	10° ≈ 32'11	1°35'28	minimum elong	15042 Jan 01 10:11	25° る 11'50	1°38'53
evening rise 15041 Jan 24 09:18 26°≈17'25 evening rise 15042 Jan 08 09:52 10°≈26'01 15041 Jan 26 05:32 0°	minimum elong	15041 Jan 17 00:45	10° ≈ 37'31	1°36'14	max. Earth dist.	15042 Jan 02 07:47	27° る 12'07	1.31398 AU
desc. node 15041 Jan 26 05:32 0° ★ desc. node 15042 Jan 18 10:49 29° ≈ 54'24 desc. node 15041 Jan 31 14:06 10° ★ 12'04 evening max el 15041 Feb 12 15:43 0° ♥ evening max el 15042 Feb 09 04:08 29° ★ 56'03 27° 24'37 evening max el 15041 Feb 26 19:49 17° ♥ 24'14 27° 34'35 15042 Feb 09 05:48 0° ♥ retrograde 15041 Mar 12 16:09 24° ♥ 52'52 retrograde 15042 Feb 23 03:39 7° ♥ 16'31 evening set 15041 Mar 19 12:00 22° ♥ 30'14 evening set 15042 Mar 01 23:05 5° ♥ 09'39 min. Earth dist. 15041 Mar 23 06:33 19° ♥ 18'38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2° ♥ 20'06 0.61071 AU inferior conj 15041 Mar 26 03:26 16° ♥ 29'05 -0°35'32 15042 Mar 08 09:57 30° ₹ ★ 1° 54'51 15042 Mar 08 21:35 29° ★ 34'04 -1°54'51 15042 Mar 08 21:35 20° ★ 34'04 -1°54'51 15042 Mar 08	max. Earth dist.	15041 Jan 19 02:12	15° ≈ 07'19	1.32237 AU		15042 Jan 03 14:04	0°≈	
desc. node 15041 Jan 31 14:06 10° ★ 12'04 evening max el 15042 Jan 18 12:05 0° ★ 15041 Feb 12 15:43 0° ♥ evening max el 15042 Feb 09 04:08 29° ★ 56'03 27°24'37 15042 Feb 09 05:48 0° ♥ 15041 Feb 15042	evening rise	15041 Jan 24 09:18	26° ≈ 17′25		evening rise	15042 Jan 08 09:52	10° ≈ 26′01	
evening max el 15041 Feb 12 15:43 0°°Y evening max el 15042 Feb 09 04:08 29°\(\frac{1}{5}6'03\) 27°24'37 evening max el 15041 Feb 26 19:49 17°\(\frac{1}{2}2'14\) 27°34'35 15042 Feb 09 05:48 0°°Y retrograde 15041 Mar 12 16:09 24°\(\frac{1}{2}5'52'52\) retrograde evening set 15041 Mar 19 12:00 22°\(\frac{1}{2}3'01'4\) evening set 15042 Mar 01 23:05 5°\(\frac{1}{2}0'02'30'4\) min. Earth dist. 15041 Mar 23 06:33 19°\(\frac{1}{1}8'18\) 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2°\(\frac{1}{2}0'02'06\) 0.61071 AU inferior conj 15041 Mar 26 03:26 16°\(\frac{1}{2}2'01'1\) 0°35'14 inferior conj 15042 Mar 08 21:35 29°\(\frac{1}{3}3'03\) 27°24'37		15041 Jan 26 05:32	0° ∀		desc. node	15042 Jan 18 10:49	29° ≈ 54'24	
evening max el 15041 Feb 26 19:49 17°°\tag{24'14} 27°34'35 15042 Feb 09 05:48 0°\tag{50'} retrograde 15041 Mar 12 16:09 24°\tag{52'52} retrograde 15042 Feb 23 03:39 7°\tag{16'31} evening set 15041 Mar 19 12:00 22°\tag{30'}14 evening set 15042 Mar 01 23:05 5°\tag{90'}39' min. Earth dist. 15041 Mar 23 06:33 19°\tag{18'}18'38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2°\tag{20'}0'06 0.61071 AU inferior conj 15041 Mar 26 03:26 16°\tag{20'}26'11 0°\tag{51'}14 inferior conj 15042 Mar 08 09:57 30°\tag{18'}H	desc. node	15041 Jan 31 14:06				15042 Jan 18 12:05	0° ∀	
retrograde 15041 Mar 12 16:09 24°Y52'52 retrograde 15042 Feb 23 03:39 7°Y16'31 evening set 15041 Mar 19 12:00 22°Y30'14 evening set 15042 Mar 01 23:05 5°Y09'39 min. Earth dist. 15041 Mar 23 06:33 19°Y18'38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2°Y20'06 0.61071 AU inferior conj 15041 Mar 26 02:17 16°Y29'05 -0°35'32 15042 Mar 08 09:57 30°R H minimum elong 15041 Mar 26 03:26 16°Y26'11 0°35'14 inferior conj 15042 Mar 08 21:35 29° H 34'04 -1°54'51		15041 Feb 12 15:43			evening max el	15042 Feb 09 04:08		27°24'37
evening set 15041 Mar 19 12:00 22° \(\gamma\)30'14 evening set 15042 Mar 01 23:05 5° \(\gamma\)09'39 min. Earth dist. 15041 Mar 23 06:33 19° \(\gamma\)18'38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2° \(\gamma\)20'06 0.61071 AU inferior conj 15041 Mar 26 02:17 16° \(\gamma\)29'05 -0°35'32 15042 Mar 08 09:57 30° \(\gamma\)4 minimum elong 15041 Mar 26 03:26 16° \(\gamma\)26'11 0°35'14 inferior conj 15042 Mar 08 21:35 29° \(\gamma\)3'4'04 -1°54'51	evening max el	15041 Feb 26 19:49		27°34'35		15042 Feb 09 05:48		
min. Earth dist. 15041 Mar 23 06:33 19° \$\cdot 18:38 0.63236 AU min. Earth dist. 15042 Mar 05 18:19 2° \$\cdot 20:06 0.61071 AU inferior conj 15041 Mar 26 02:17 16° \$\cdot 29:05 -0^{\circ 35}\$ 30 \circ 8 \cdot 15042 Mar 08 09:57 30° \$\cdot 8 \cdot 15042 Mar 08 09:57 \ 30 \circ 8 \cdot 15042 Mar 08 09:57 \ 30 \cdot 15042 Mar 08	•				-			
inferior conj 15041 Mar 26 02:17 16° Y 29'05 -0° 35'32 15042 Mar 08 09:57 30° R \times minimum elong 15041 Mar 26 03:26 16° Y 26'11 0°35'14 inferior conj 15042 Mar 08 21:35 29° \times 34'04 -1° 54'51	•				Č			
minimum elong 15041 Mar 26 03:26 16° Y 26'11 0°35'14 inferior conj 15042 Mar 08 21:35 29° X 34'04 -1°54'51					min. Earth dist.			0.61071 AU
· · · · · · · · · · · · · · · · · · ·								
asc. node 15041 Mar 27 22:30 14° Y'41'06 minimum elong 15042 Mar 09 01:44 29° ★24'52 1°53'04	=			0°35'14	,			
	asc. node	15041 Mar 27 22:30	14 ~\Y ′41′06		mınımum elong	15042 Mar 09 01:44	29° H 24'52	1°53'04

asc. node	15042 Mar 14 19:57	25°) 13′06		morning rise	15043 Feb 27 00:35	7° ¥ 25'32	
morning rise	15042 Mar 16 07:36	24°) ₹38'33		direct	15043 Mar 01 00:27	7°) 11′24	
direct	15042 Mar 18 10:35	24° ∺ 19'32		asc. node	15043 Mar 01 17:26	7° ∺ 13'14	
morning max el	15042 Mar 25 10:49	27° ∺ 50'51	17°52'58	morning max el	15043 Mar 08 22:17	11° 米 06′12	18°18'59
	15042 Mar 27 10:05	0 ° $\mathbf{\gamma}$			15043 Mar 21 09:11	0° Y	
morning set	15042 Apr 10 01:54	22° Y 12'57		morning set	15043 Mar 24 15:44	6° Y 09′10	
	15042 Apr 14 09:27	0° 8					
desc. node	15042 Apr 16 12:52	3° 8 49'10		superior conj	15043 Apr 03 01:36	23° Y 46'13	0°02'42
				minimum elong	15043 Apr 03 01:46	23° Y 47′00	0°02'23
superior conj	15042 Apr 20 20:25	11° 8 21'43		behind sun begin	15043 Apr 02 18:28	23° Y 13'45	
minimum elong	15042 Apr 20 17:19	11° 8 08'21	0°34'22	behind sun end	15043 Apr 03 09:04	24° Y 20′10	
max. Earth dist.	15042 Apr 28 05:12	_	1.43094 AU	desc. node	15043 Apr 03 09:28	24° Y ′21′58	
	15042 May 02 02:19	0°II			15043 Apr 06 13:00	0° 8	
evening rise	15042 May 04 13:59	3° Ⅱ 56′08		max. Earth dist.	15043 Apr 10 15:24	7° 8 06'33	1.41050 AU
	15042 May 22 01:07	0°95		evening rise	15043 Apr 15 04:34	14° 8 42'11	
evening max el	15042 Jun 05 16:19	18°9524'54	21°54'01		15043 Apr 24 21:49	0°II	
asc. node	15042 Jun 10 17:19	22° © 31'07			15043 May 17 03:19	0°€	
retrograde	15042 Jun 14 23:24	23°950'57		evening max el	15043 May 19 07:48	2°517'32	23°14'26
evening set	15042 Jun 19 14:49	21°955'33		asc. node	15043 May 28 14:26	8°521'04	
inferior conj	15042 Jun 24 20:49	15°538'14	3°06'10	retrograde	15043 May 29 19:24	8°527'29	
minimum elong	15042 Jun 24 20:02	15°540'57	3°05'09	evening set	15043 Jun 03 22:17	6°9517'16	
min. Earth dist.	15042 Jun 24 22:16	15°533'10	0.69016 AU	inferior conj	15043 Jun 09 06:36	29° ∏ 51'51	2°51'57
morning rise	15042 Jun 30 01:05	9° © 23'03		minimum elong	15043 Jun 09 05:02	29° Ⅱ 57'15	2°50'43
direct	15042 Jul 04 21:29	7°519'08		min. Earth dist.	15043 Jun 08 19:05	0°531'41	0.68994 AU
desc. node	15042 Jul 13 12:49	12°501'22	22210145		15043 Jun 09 04:15	30°RⅡ	
morning max el	15042 Jul 14 12:07	12°958'06	22°18'45	morning rise	15043 Jun 14 11:44	23° I I44'18	
	15042 Jul 28 03:26	0°N		direct	15043 Jun 18 19:40	22° I I00'00	2005/125
morning set	15042 Aug 16 18:27	29° Ω 40′21		morning max el	15043 Jun 27 05:21	26° Ⅱ 48'58	20°56'27
79 of 18 o	15042 Aug 16 23:19	0° m/y	1 41100 177	desc. node	15043 Jun 30 10:01	0°917'38	
max. Earth dist.	15042 Aug 21 22:55	8° mp 12'30	1.41189 AU		15043 Jun 30 03:58	0°©	
	15040 4 20 10 40	2107 4420	1006145		15043 Jul 21 14:39	0°N	
superior conj	15042 Aug 29 18:49	21° Mp 44'38		morning set	15043 Jul 27 11:25	9° Ω 00'51	1 42264 444
minimum elong	15042 Aug 30 00:04	22° m/08'00	1°06'14	max. Earth dist.	15043 Aug 04 05:57	21° Ω 20'52	1.43264 AU
	15042 Sep 03 08:18	0° ⊽			15043 Aug 09 12:18	0° m)	
asc. node	15042 Sep 06 18:18	6° £ 19'43			15042 4 11 04 57	20m 50120	1040100
evening rise	15042 Sep 09 02:05	10° £ 40'14		superior conj	15043 Aug 11 04:57	2° m/50'28	
	15042 Sep 20 02:53	0°M	10017106	minimum elong	15043 Aug 11 12:26	3° My 22'04	1°40'11
evening max el	15042 Sep 25 00:19	6°M10'09	18°17'26	evening rise	15043 Aug 23 02:10	23° m/31'03	
retrograde	15042 Oct 02 10:19	9°M56'42		asc. node	15043 Aug 24 14:54	26° m 14'15	
evening set	15042 Oct 04 12:17	9°M39'30			15043 Aug 26 17:56	0∘ ⊽	10002125
desc. node	15042 Oct 09 09:18	7°M04'43	0050125	evening max el	15043 Sep 08 12:38	19° £ 10'19	18-02-35
inferior conj minimum elong	15042 Oct 12 00:35 15042 Oct 11 22:43	4°M58'52 5°M02'46	-0°30′25 0°49′11	retrograde evening set	15043 Sep 15 05:06	22° ♀ 37'03 22° ♀ 10'31	
min. Earth dist.			0.58655 AU	•	15043 Sep 17 14:29		0°34'41
IIIII. Eartii dist.	15042 Oct 15 07:04 15042 Oct 18 11:36	2 IIL16 14 30°R ≏	0.38033 AU	inferior conj	15043 Sep 24 09:37 15043 Sep 24 10:41	17° ♀ 09'57 17° ♀ 07'24	0°34'29
marning risa		30 K== 29° £ 33'34		minimum elong desc. node	15043 Sep 26 06:46	17 ≥ 07 24 15° ⊆ 20'37	0 34 29
morning rise direct	15042 Oct 19 05:42 15042 Oct 25 14:29	29 ≗ 33 34 27° £ 45'43		min. Earth dist.	15043 Sep 27 12:19	13 ≥ 2037 14° ₽ 11'05	0.60929 AU
direct	15042 Nov 02 00:14	0°M		morning rise	15043 Sep 27 12.19 15043 Oct 01 03:54	14 ⊆ 11 03 11° ⊆ 15'28	0.00929 AU
morning max el	15042 Nov 02 00.14 15042 Nov 08 21:44	5°M25'08	27°26'28	direct	15043 Oct 07 03:34 15043 Oct 07 19:13	9° ₽ 03'20	
morning max ci	15042 Nov 27 02:41	0° ⊀ 7	27 20 20	morning max el	15043 Oct 22 01:00	16° ≏ 58'04	27057128
asc. node	15042 Nov 27 02:41 15042 Dec 03 19:40	12° × 707'03		morning max cr	15043 Nov 01 20:35	0°M	27 37 28
morning set	15042 Dec 03 15:40 15042 Dec 10 00:01	24° × 40'25			15043 Nov 19 18:43	0° ⊼	
morning sec	15042 Dec 10 00:01	0°る		asc. node	15043 Nov 20 16:35	1° × 7'47'29	
	13042 Dec 12 11.12	° O		morning set	15043 Nov 24 03:11	8° × ⁷ 47'18	
superior conj	15042 Dec 16 21:50	9° ප 52'01	1°34'27	max. Earth dist.	15043 Nov 29 22:34		1.31291 AU
minimum elong	15042 Dec 16 20:43	9° る 45'50		max. Earth dist.	13043 NOV 29 22.34	21 × 1/32	1.31291 AU
max. Earth dist.	15042 Dec 16 15:53		1.31076 AU	superior conj	15043 Dec 01 08:33	24° ∡ ¹26'15	1°25'02
evening rise	15042 Dec 23 15:51	9 3 1843 24° 3 46'32	1.510/0110	minimum elong	15043 Dec 01 06:40		1°25'49
- 1 - 11111	15042 Dec 26 03:20	24 O 40 32 0° ≈		minimum clong	15043 Dec 03 20:30	24 × 13 43	1 23 77
desc. node	15043 Jan 05 07:36	0 ≈ 19°≈07'22		evening rise	15043 Dec 03 20:30 15043 Dec 08 01:12	0 0 9° る 14'10	
desc. Houe	15043 Jan 12 09:17	19 ≈ 0722 0° ∀		Creming 1150	15043 Dec 08 01.12 15043 Dec 18 13:04	9°≈	
evening max el	15043 Jan 22 05:47	11° X 38'04	26°30'40	desc. node	15043 Dec 18 13.04 15043 Dec 23 04:28	0 ≈ 7°≈40'09	
retrograde	15043 Jan 22 05:47 15043 Feb 05 05:19	18° H 48'06	20 JJ40	evening max el	15044 Jan 03 22:58	7°≈40'09 22°≈27'27	25°22'35
evening set	15043 Feb 03 03.19 15043 Feb 11 17:19	17° H 03'45		retrograde	15044 Jan 17 19:45	22 ≈2727 29°≈25'48	43 44 33
min. Earth dist.	15043 Feb 11 17:19 15043 Feb 15 19:27		0.58855 AU	evening set	15044 Jan 17 19:45 15044 Jan 23 14:56	29°≈25'48 28°≈09'18	
inferior conj	15043 Feb 13 19:27 15043 Feb 18 23:47	11° H 59'50		min. Earth dist.	15044 Jan 28 11:23	28°≈09'18 25°≈28'17	0.56827 AU
minimum elong	15043 Feb 18 23:47 15043 Feb 19 07:18	11° X 39'30 11° X 45'22		inferior conj	15044 Jan 28 11:23 15044 Jan 31 05:46	25°≈28'17 23°≈37'52	
mmmum ciong	13073 FCU 17 U/.18	11 / 43 44	5 1705	microi conj	15077 Jan 51 05.40	∠s ~ s13∠	7 70 17

minimum elong	15044 Jan 31 14:57	23° ≈ 22'34	4°43'11	inferior conj	15045 Jan 10 15:01	4° ≈ 24'11	
morning rise	15044 Feb 08 17:40	19° ≈ 25′25		minimum elong	15045 Jan 10 20:42	4°≈15'46	5°45'00
direct	15044 Feb 10 20:00	19° ≈ 12'27		morning rise	15045 Jan 19 05:48	0° ≈ 29'27	
asc. node	15044 Feb 16 14:52	20°≈58'13		direct	15045 Jan 21 20:02	0°≈12'44	
morning max el	15044 Feb 20 00:47	23°≈41'23	19°06'14	morning max el	15045 Feb 01 14:07	5° ≈ 23'48	20°16'32
	15044 Feb 25 04:30	0° ∀		asc. node	15045 Feb 02 12:15	6°≈19'25	
morning set	15044 Mar 07 15:28	20°) (30′50			15045 Feb 17 09:01	0° \	
	15044 Mar 12 10:28	0 ° Υ		morning set	15045 Feb 19 21:40	5°) €07'05	
	15044 M 16 00:20	6° Ƴ 58'59	0924125		15045 E-1- 27, 12:05	200 1 46141	1800107
superior conj	15044 Mar 16 00:38	7° Υ '08'43	0°34'35 0°34'14	superior conj	15045 Feb 27 13:05	20°\(\frac{4}{46}\)'41 20°\(\frac{1}{59}\)'53	1°00'07 0°59'59
minimum elong	15044 Mar 16 02:40	14° Υ 55'44	0-34-14	minimum elong	15045 Feb 27 15:42	20° Υ 39'33	0-39-39
desc. node max. Earth dist.	15044 Mar 20 06:00	14° γ 35°44 19° γ 45'33	1.38789 AU	max. Earth dist.	15045 Mar 04 05:27 15045 Mar 05 04:38	0° γ 1° Υ 50'46	1.36555 AU
	15044 Mar 22 21:48	19 1 43 33 26° Υ 23'38	1.36/69 AU	desc. node		5° Υ 26'21	1.30333 AU
evening rise	15044 Mar 26 16:27	0° 8			15045 Mar 07 02:32	8° Y 52'53	
	15044 Mar 28 19:17	0°U		evening rise	15045 Mar 08 23:31	8° 1 52 53	
avanina may al	15044 Apr 17 11:35	0 <u>н</u> 16° П 11'11	24°35'02		15045 Mar 21 12:40	0°I	
evening max el	15044 Apr 30 21:25	16 Д 11111 22° Д 58'25	24 33 02		15045 Apr 13 09:24	0°П03'53	25949146
retrograde	15044 May 12 11:57	22°П38'25 22°П41'26		evening max el	15045 Apr 13 10:59	0°Щ03°33 7°Щ16'46	25-48-46
asc. node	15044 May 14 11:37	20° I I36'26		retrograde asc. node	15045 Apr 25 23:56	5° П 19'34	
evening set min. Earth dist.	15044 May 18 02:20 15044 May 22 14:36	20°Щ36°26 15°Щ27'30	0.68497 AU		15045 May 01 08:53 15045 May 02 01:16	3°Щ19'34 4°Щ47'10	
	•	13 П 2/30 14° П 06'13	0.08497 AU 2°27'18	evening set	•	4 114/10 30°R と	
inferior conj	15044 May 23 14:54	14°Щ06°13		i. Fauth diet	15045 May 06 11:10	30° ₹Ο 0° ∏ 14'09	0.67540.411
minimum elong	15044 May 23 12:50	8° П 07'21	2°25'53	min. Earth dist.	15045 May 06 06:39	28° 8 16'48	0.67540 AU 1°51'46
morning rise	15044 May 28 23:31 15044 Jun 01 19:30	6° П 43'13		inferior conj minimum elong	15045 May 07 19:42 15045 May 07 17:34	28° 8 23'33	1°50'20
direct		10° Д 50'27	10947104	•	•	28° 6 23'33	1-30-20
morning max el desc. node	15044 Jun 09 05:26 15044 Jun 16 07:07	10° Д 30′27 19° Д 17′51	19°46'04	morning rise direct	15045 May 13 10:29	21° 8 22'58	
		19 П 1/31 27° П 56'03	-0.6m		15045 May 16 19:25	25° 8 00'23	18°50'52
greatest brilliancy	15044 Jun 22 09:52 15044 Jun 23 19:38	27 п 3603	-0.0111	morning max el	15045 May 23 12:46 15045 May 27 21:05	23 3 00 23 0° Ⅱ	18 30 32
morning got	15044 Jul 05 14:45	17° © 48'53		desc. node	15045 Jun 03 04:05	0 <u>П</u> 8° П 50'11	
morning set	15044 Jul 13 11:28	17 948 33 0°Ω			15045 Jun 06 04:14	8 Д 3011 13° Д 21'33	-0.8m
max. Earth dist.	15044 Jul 16 18:53		1.44834 AU	greatest brilliancy morning set	15045 Jun 15 00:26	15 Ⅲ 21 55 26° Ⅲ 59'54	-0.8111
max. Earth dist.	13044 Jul 10 16.33	3 8612 20	1.44634 AU	morning set	15045 Jun 16 22:49	20 H 3934	
superior conj	15044 Jul 21 15:26	12° Ω 57'10	2005!16	max. Earth dist.	15045 Jun 29 12:44		1.45743 AU
minimum elong	15044 Jul 21 13:20	$13^{\circ}\Omega 21'52$		max. Earm dist.	13043 Juli 29 12.44	19 5933 00	1.43743 AU
minimum ciong	15044 Aug 01 00:24	0°m)	2 03 44	superior conj	15045 Jul 01 06:25	22°©18'13	-2°13'55
evening rise	15044 Aug 04 07:07	5° Mp 31'09		minimum elong	15045 Jul 01 06:00	22°516'34	
asc. node	15044 Aug 10 11:31	15° Mp 55'24		minimum clong	15045 Jul 06 03:55	0°Ω	2 1432
asc. Houc	15044 Aug 10 11:31 15044 Aug 19 19:48	0° Ω		evening rise	15045 Jul 16 12:13	16° Ω 30'05	
evening max el	15044 Aug 22 03:18		18°06'37	evening rise	15045 Jul 24 22:11	0°m)	
retrograde	15044 Aug 28 12:16	5° £ 55'07	10 0037	asc. node	15045 Jul 28 08:11	5° Mp 17'54	
evening set	15044 Aug 31 06:07	5° ≏ 15'51		evening max el	15045 Aug 05 17:02	16° M) 14'54	18°28'33
inferior conj	15044 Sep 06 11:01	29° m 57'37	1°39'01	retrograde	15045 Aug 12 03:44	19° m) 42'23	10 20 33
minimum elong	15044 Sep 06 13:17	29° m 51'26	1°38'12	evening set	15045 Aug 15 06:35	18° m) 47'49	
minimum ciong	15044 Sep 06 10:08	30°R, m)	1 30 12	inferior conj	15045 Aug 11 00:35	13° m) 13'55	2°24'00
min. Earth dist.	15044 Sep 09 03:24	27° mp 03'18	0.63178 AU	minimum elong	15045 Aug 21 03:05	13° m) 07'02	2°23'04
desc. node	15044 Sep 12 04:16	24° Mp 11'54	0.03176 AC	min. Earth dist.	15045 Aug 23 03:44	10° mp 41'35	0.65193 AU
morning rise	15044 Sep 12 18:21	23° mp 44'22		morning rise	15045 Aug 26 22:20	6° m 51'03	0.03173 AC
direct	15044 Sep 19 10:09	21° mg 14'43		desc. node	15045 Aug 30 01:44	4° m ₀ 53'46	
morning max el	15044 Oct 03 09:20	29° m) 15'08	27°49'40	direct	15045 Sep 02 09:26	4° Mg 13'11	
morning max cr	15044 Oct 04 03:00	0° <u>م</u>	27 4740	morning max el	15045 Sep	12° Mp 06'47	27°08'19
	15044 Oct 25 19:04	0° m .		morning max er	15045 Sep 30 03:57	0° ⊽	27 00 17
morning set	15044 Nov 06 23:12	22°M31'15			15045 Oct 18 08:29	0° ™	
asc. node	15044 Nov 06 13:22	21°M41'44		morning set	15045 Oct 21 09:25	5°M46'25	
ase. Hode	15044 Nov 10 14:06	0° × 7		asc. node	15045 Oct 24 10:04	11°M45'12	
max. Earth dist.	15044 Nov 11 23:53	2° × 759'31	1.32066 AU	max. Earth dist.	15045 Oct 25 16:46	14°M20'44	1.33400 AU
max. Dartii dist.	130111107 11 23.33	2 7 37 31	1.52000110	max. Earth dist.	13013 000 23 10.10	11 11020 11	1.55 100 110
superior conj	15044 Nov 14 16:28	8° ∡ ¹48'49	1°09'41	superior conj	15045 Oct 29 19:26	22°M54'35	0°48'26
minimum elong	15044 Nov 14 10:28	8° × ⁷ 36'15	1°10'14	minimum elong	15045 Oct 29 17:17	22°M43'13	0°48'46
-				Ciong	15045 Nov 02 03:02	0° √	J .5 10
evening rice		ງຊ∘ <i>⊾</i> 7⊿ຊ'ຊ1			120721101 04 02.04	· ^	
evening rise	15044 Nov 21 12:03	23° ₹ 43'31		evening rice		80710125	
_	15044 Nov 21 12:03 15044 Nov 24 11:11	8°0		evening rise	15045 Nov 05 22:35	8° ⊀ 10'35 0° ₹	
desc. node	15044 Nov 21 12:03 15044 Nov 24 11:11 15044 Dec 09 01:27	0°ප 25°ප17'00		-	15045 Nov 05 22:35 15045 Nov 17 07:06	8°0	
desc. node	15044 Nov 21 12:03 15044 Nov 24 11:11 15044 Dec 09 01:27 15044 Dec 12 21:31	0°る 25°る17'00 0°≈	23°44'11	desc. node	15045 Nov 05 22:35 15045 Nov 17 07:06 15045 Nov 25 22:32	0°ಕ 11°ಕ38'14	22°01'51
desc. node	15044 Nov 21 12:03 15044 Nov 24 11:11 15044 Dec 09 01:27 15044 Dec 12 21:31 15044 Dec 15 09:30	0°る 25°る17'00 0°≈ 2°≈35'46	23°44'11	desc. node evening max el	15045 Nov 05 22:35 15045 Nov 17 07:06 15045 Nov 25 22:32 15045 Nov 26 20:51	0°ප් 11°ප්38'14 12°ප්34'43	22°01'51
desc. node evening max el retrograde	15044 Nov 21 12:03 15044 Nov 24 11:11 15044 Dec 09 01:27 15044 Dec 12 21:31 15044 Dec 15 09:30 15044 Dec 28 20:53	0°පි 25°පි17'00 0°≈ 2°≈35'46 9°≈16'58	23°44'11	desc. node evening max el retrograde	15045 Nov 05 22:35 15045 Nov 17 07:06 15045 Nov 25 22:32 15045 Nov 26 20:51 15045 Dec 09 10:00	0°පි 11°පි38'14 12°පි34'43 18°පි47'12	22°01'51
desc. node	15044 Nov 21 12:03 15044 Nov 24 11:11 15044 Dec 09 01:27 15044 Dec 12 21:31 15044 Dec 15 09:30	0° ರ 25° ರ 17'00 0°≈ 2°≈35'46 9°≈16'58 8°≈29'25	23°44'11 0.55281 AU	desc. node evening max el	15045 Nov 05 22:35 15045 Nov 17 07:06 15045 Nov 25 22:32 15045 Nov 26 20:51	0°ප් 11°ප්38'14 12°ප්34'43	

minimum elong min. Earth dist. morning rise	15045 Dec 21 06:01 15045 Dec 21 02:27 15045 Dec 29 18:29	14° ට 34'24 14° ට 39'24 10° ට 42'41	5°56'15 0.54500 AU	minimum elong min. Earth dist. morning rise	15046 Nov 30 15:22 15046 Dec 02 08:15 15046 Dec 09 02:33	24° 🖈 37'43 23° 🖈 38'20 20° 🖈 25'35	5°04'27 0.54634 AU
direct morning max el asc. node	15046 Jan 02 06:26 15046 Jan 14 12:28 15046 Jan 20 09:33	10°පි15'37 16°පි09'48 23°පි00'17	21°49'12	direct morning max el	15046 Dec 13 14:49 15046 Dec 26 23:50 15046 Dec 30 13:17	19°፟፟፟፟፟፟፟፟፟፟741'54 26°፟፟፟፟፟፟714'09 0°፟፟፟፟፟፟፟	23°36'58
morning set	15046 Jan 25 00:00 15046 Feb 04 07:44 15046 Feb 09 02:34	0° ≈ 19° ≈ 50'34 0° 米		asc. node morning set	15047 Jan 07 06:47 15047 Jan 17 15:23 15047 Jan 19 19:32	10° ජ 43'14 0°≈ 4°≈35'18	
	15046 F-k 11 11.12	49 V 50112	1010150		15047 I 26 16:04	1002015	1°31'16
superior conj minimum elong	15046 Feb 11 11:13 15046 Feb 11 13:34	4°) 59'13 5°) 11'29	1°18'58 1°19'11	superior conj minimum elong	15047 Jan 26 16:04 15047 Jan 26 17:37	19°≈28'15 19°≈36'38	1°31'51
max. Earth dist.	15046 Feb 15 16:49	13°) (42'13	1.34561 AU	max. Earth dist.	15047 Jan 29 12:33	25°≈35'19	1.32950 AU
evening rise	15046 Feb 19 22:21	22° ∺ 00'30			15047 Jan 31 15:05	0° ∀	
desc. node	15046 Feb 21 23:04	25° ¥ 50′02		evening rise	15047 Feb 03 09:29	5°) 37'41	
	15046 Feb 24 05:45	0° Ƴ		desc. node	15047 Feb 08 19:40	16° ¥ 02'26	
	15046 Mar 15 07:27	0°8	2 (0 40)02		15047 Feb 16 21:38	0°Υ 25°Ω1 452	0.500.510.0
evening max el	15046 Mar 27 00:52 15046 Apr 09 06:14	13° 8 48'42 21° 8 15'04	26°48'03	evening max el	15047 Mar 09 14:03 15047 Mar 12 16:19	27° Y 14'53 0° と	27°25'30
retrograde evening set	15046 Apr 15 17:12	18° 8 42'56		retrograde	15047 Mar 23 06:09	4° 8 44'57	
asc. node	15046 Apr 18 06:13	16° 8 20'39		evening set	15047 Mar 30 00:04	2° 8 16'32	
min. Earth dist.	15046 Apr 19 17:05	14° 8 44'18	0.66158 AU	Č	15047 Apr 01 15:42	30° Ŗ ♈	
inferior conj	15046 Apr 21 18:48	12° 8 18'22	1°04'33	min. Earth dist.	15047 Apr 02 19:52	28° Y '49'26	0.64394 AU
minimum elong	15046 Apr 21 17:15	12° 8 22'58	1°03'24	inferior conj	15047 Apr 05 09:38	26° Y ′04'46	0°04'47
morning rise	15046 Apr 27 18:32	6° 8 41'23		minimum elong	15047 Apr 05 09:30	26° Y °05'07	0°04'24
direct	15046 Apr 30 17:22	5° 8 53'20	10012110	transit middle	15047 Apr 05 09:30	26°\bar{V}05'07 26°\bar{V}13'05	0°04'24
morning max el desc. node	15046 May 07 02:06 15046 May 21 00:57	9° 8 13'43 28° 8 45'51	18°12'18	transit begin transit end	15047 Apr 05 06:32 15047 Apr 05 12:28	26°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	
desc. node	15046 May 21 19:33	0°Ⅱ		asc. node	15047 Apr 05 12:28 15047 Apr 05 03:37	26°\bar{\gamma}20'57	
morning set	15046 May 26 09:33	7° Ⅱ 20'32		morning rise	15047 Apr 11 21:02	20° Y 41'59	
S	15046 Jun 09 16:27	0ಂತಾ		direct	15047 Apr 14 10:54	20° Y ′07'59	
				morning max el	15047 Apr 20 19:07	23° Y 23'38	17°50'51
superior conj	15046 Jun 10 15:04	1°528'30			15047 Apr 26 03:36	0°8	
minimum elong	15046 Jun 10 07:43		2°03'00	morning set	15047 May 07 22:30	19° 8 01'39	
max. Earth dist.	15046 Jun 12 09:09	4°©12'58 26°©29'40	1.45915 AU	desc. node	15047 May 07 21:43	18° ႘ 58'26 0°Ⅱ	
evening rise	15046 Jun 26 17:01 15046 Jun 28 23:13	26° 9 2940			15047 May 14 12:44	0-Щ	
greatest brilliancy	15046 Jul 07 22:22	13° Ω 47'01	-0.7m	superior conj	15047 May 21 10:41	11° Ⅱ 14'06	-1°34'03
asc. node	15046 Jul 15 04:55	24° Ω 14'18		minimum elong	15047 May 21 02:06	10° Ⅲ 39'41	
evening max el	15046 Jul 20 03:05	0° Mp 02'56	19°07'32	max. Earth dist.	15047 May 26 05:14	18° Ⅲ 49′00	1.45339 AU
	15046 Jul 20 01:54	0° m			15047 Jun 02 09:25	0 \circ 60	
retrograde	15046 Jul 27 00:09	3° m 50'41		evening rise	15047 Jun 06 06:01	5° © 55'43	
evening set	15046 Jul 30 12:26	2° m/39'13		greatest brilliancy	15047 Jun 21 02:47	28°5511'37	-0.6m
inferior conj	15046 Aug 02 09:56 15046 Aug 04 23:26	30°RΩ 26°Ω51'10	2052/30	asc. node	15047 Jun 22 08:57 15047 Jul 02 01:45	0° Ω 12° Ω 35'59	
minimum elong	15046 Aug 05 01:05	$26^{\circ}\Omega 45'49$	2°51'37	evening max el	15047 Jul 02 01:43	$13^{\circ}\Omega 54'09$	20°02'12
min. Earth dist.	15046 Aug 06 12:03	24° Ω 53'09	0.66844 AU	retrograde	15047 Jul 10 22:54	18° Ω 14'10	20 02 12
morning rise	15046 Aug 10 13:05	20° Ω 25'28		evening set	15047 Jul 14 21:09	16° Ω 45'16	
direct	15046 Aug 16 15:35	17° Ω 48'29		inferior conj	15047 Jul 20 04:06	10° Ω 44'32	3°07'04
desc. node	15046 Aug 16 23:13	17° Ω 48'53		minimum elong	15047 Jul 20 04:50	10° Ω 42'02	3°06'13
morning max el	15046 Aug 29 07:25	25° Ω 21'06	26°01'32	min. Earth dist.	15047 Jul 21 02:39	9° Ω 28'03	0.68061 AU
	15046 Sep 02 13:14	0 ்⊽ 0° ™		morning rise	15047 Jul 25 12:09	4°Ω20'31	
morning set	15046 Sep 23 15:53 15046 Oct 04 06:24	0 <u>₽</u> 24'22		direct desc. node	15047 Jul 31 03:42 15047 Aug 03 20:39	1° Ω 52'07 2° Ω 44'58	
max. Earth dist.	15046 Oct 07 24:00	25° £ 27′00	1.35240 AU	morning max el	15047 Aug 03 20:39	8° Ω 49'12	24°38'38
	15046 Oct 10 07:56	0° M ,			15047 Aug 28 10:49	0° m)	
asc. node	15046 Oct 11 06:43	1°ML53'07		morning set	15047 Sep 16 10:10	0° ჲ 16′03	
					15047 Sep 16 06:29	0० ⊽	
superior conj	15046 Oct 13 14:49	6°M36'08	0°21'27	max. Earth dist.	15047 Sep 19 23:59	6° ≏ 38'37	1.37460 AU
minimum elong	15046 Oct 13 13:37	6°M30'00	0°21'43		15047.0 06.00.00	100 2 45:5 :	0010127
evening rise	15046 Oct 21 06:47	22°M29'43		superior conj	15047 Sep 26 23:27	19° Ω 45'54	
evening max el	15046 Oct 24 23:12 15046 Nov 08 18:12	0° द्र ⁷ 23° द्र ⁷ 00'22	20°31'47	minimum elong behind sun begin	15047 Sep 27 00:08 15047 Sep 26 18:54	19° £ 49'13 19° £ 23'52	U-10/14
desc. node	15046 Nov 12 19:43	25 x · 00 22 26° x 19'09	20 314/	behind sun begin	15047 Sep 26 18.34 15047 Sep 27 05:21	19 ≗ 23 32 20° ₽ 14'37	
retrograde	15046 Nov 19 20:30	28° × ⁷ 31'31		asc. node	15047 Sep 28 03:19	22° ⊆ 01'54	
evening set	15046 Nov 22 03:56	28° ∡ 18'15			15047 Oct 02 03:38	0° M ₊	
inferior conj	15046 Dec 01 01:00	24° ∡ ¹23'44	-5°07'37	evening rise	15047 Oct 05 10:20	6° ™ 35′01	

	15047 Oct 18 15:52	0° ∡ ¹		evening rise	15048 Sep 18 06:20	20° ₽ 19'19	
avanina may al	15047 Oct 18 15:32 15047 Oct 22 06:00	4° ∡ 13'42	10022122	evening rise	15048 Sep 23 09:14	20 = 1919 0° ™	
evening max el			19°22'22				10025107
desc. node	15047 Oct 30 17:02	8° \$755'18		evening max el	15048 Oct 04 06:39	16°M16'05	18°35'07
retrograde	15047 Oct 31 17:11	8° ₹ 58'24		retrograde	15048 Oct 12 07:45	20°M20'10	
evening set	15047 Nov 02 14:27	8° ∡ ¹47'55 −		evening set	15048 Oct 14 06:22	20° ™ 06'44	
inferior conj	15047 Nov 11 04:50	4° ∡ ³39'47		desc. node	15048 Oct 16 14:25	19° ™ 17'45	
minimum elong	15047 Nov 10 20:03	4° ≯ 754'08	3°30'10	inferior conj	15048 Oct 22 05:05	15° ™ 38'50	-1°47'48
min. Earth dist.	15047 Nov 13 17:40	3° ∡ ′00′29	0.55671 AU	minimum elong	15048 Oct 22 00:45	15° M 47'05	1°45'26
morning rise	15047 Nov 18 23:26	0° ∡ 11'53		min. Earth dist.	15048 Oct 25 09:17	13°ML14'22	0.57428 AU
	15047 Nov 19 11:57	30°₽ M		morning rise	15048 Oct 29 15:42	10°M33'48	
direct	15047 Nov 24 09:01	29°M05'46		direct	15048 Nov 04 17:56	9° ™ 00'58	
	15047 Nov 29 05:35	0° ∡ 7		morning max el	15048 Nov 19 00:10	16°M29'58	26°51'07
morning max el	15047 Dec 08 09:17	6° ∡ 09'50	25°23'57	•	15048 Nov 30 01:50	0° ∡ ¹	
asc. node	15047 Dec 25 03:56	29° ∡ 12'54		asc. node	15048 Dec 11 01:00	18° ∡ 17′08	
	15047 Dec 25 14:32	0°る			15048 Dec 16 22:19	0°ਰ	
morning set	15048 Jan 04 07:14	19° る 15'28		morning set	15048 Dec 18 17:05	3° る 46'32	
morning sec	15048 Jan 09 04:41	0°≈		morning sec	13010 Dec 10 17.03	3 0 10 32	
	13040 Juli 07 04.41	0 ∼		gunariar agni	15049 Dag 25 12:20	18° る 47'19	1027112
:	15048 Jan 11 01:07	490 000115	1027117	superior conj	15048 Dec 25 12:20	18° る 44'17	1°38'09
superior conj		4°≈06'15	1°37'16	minimum elong	15048 Dec 25 11:47		
minimum elong	15048 Jan 11 01:38	4°≈09'08	1°38'07	max. Earth dist.	15048 Dec 25 22:03	19° る 41'37	1.31189 AU
max. Earth dist.	15048 Jan 12 15:07	7° ≈ 35'46	1.31812 AU		15048 Dec 30 13:58	0° ≈	
evening rise	15048 Jan 18 05:52	19° ≈ 36′29		evening rise	15049 Jan 01 09:00	3° ≈ 51′00	
	15048 Jan 23 11:13	0° ∀		desc. node	15049 Jan 12 13:04	25° ≈ 28'41	
desc. node	15048 Jan 26 16:19	5° ¥ 57'36			15049 Jan 15 05:24	0° ∀	
	15048 Feb 11 02:55	0 ° Υ		evening max el	15049 Feb 01 06:19	22° ∺ 20'49	27°09'47
evening max el	15048 Feb 20 00:38	10° Ƴ 09'18	27°34'26	retrograde	15049 Feb 15 06:36	29°) 37'51	
retrograde	15048 Mar 04 22:44	17° Y 35'35		evening set	15049 Feb 21 23:40	27° ¥ 39'46	
evening set	15048 Mar 11 19:16	15° Y 18′20		min. Earth dist.	15049 Feb 25 20:47	24° ¥ 56'34	0.60122 AU
min. Earth dist.	15048 Mar 15 13:23	12° Y °17'27	0.62334 AU	inferior conj	15049 Mar 01 01:33	22°) 16'40	
inferior conj	15048 Mar 18 13:04	9° Υ 27'08		minimum elong	15049 Mar 01 07:10	22°\(\)(04'56	
minimum elong	15048 Mar 18 15:23	9° Υ 21'36	1°06'55	morning rise	15049 Mar 08 18:03	17° ¥ 30'00	2 20 30
asc. node		6° Υ 22'04	1 00 33	asc. node		17° ∺ 27'11	
	15048 Mar 22 01:04	6 1 22 04 4° Υ 21'07		direct	15049 Mar 08 22:31	17 € 2711	
morning rise	15048 Mar 25 14:26				15049 Mar 10 19:03		10001120
direct	15048 Mar 27 20:42	3° Y 57'46		morning max el	15049 Mar 18 03:32	20°) 53'54	18°01'29
morning max el	15048 Apr 03 12:44	7° Y ′20′18	17°46'56		15049 Mar 25 00:09	0° Υ	
	15048 Apr 18 10:17	0°8		morning set	15049 Apr 02 17:12	15° Y ′24'26	
morning set	15048 Apr 19 11:02	1° 8 48'50		desc. node	15049 Apr 10 15:02	29° Y 52'24	
desc. node	15048 Apr 23 18:24	9° 8 21'58			15049 Apr 10 16:44	9° 8	
superior conj	15048 May 01 04:01	22° 8 00'49	-0°56'45	superior conj	15049 Apr 12 20:52	3° 8 51'40	-0°18'09
minimum elong	15048 Apr 30 22:36	21° 8 38'11	0°56'40	minimum elong	15049 Apr 12 19:19	3° 8 44'49	0°18'21
	15048 May 06 00:16	Π° 0		max. Earth dist.	15049 Apr 20 10:25	16° 8 48'44	1.42269 AU
max. Earth dist.	15048 May 07 22:07	3° Ⅱ 05'18	1.44076 AU	evening rise	15049 Apr 25 21:51	25° 8 43'41	
evening rise	15048 May 15 18:49	15° Ⅱ 28'39		Č	15049 Apr 28 14:43	0°II	
	15048 May 25 09:10	0.ಪ			15049 May 19 05:05	0°©	
evening max el	15048 Jun 15 06:16	27° © 45'49	21°10'18	evening max el	15049 May 28 23:53	11° © 38'08	22°27'50
asc. node	15048 Jun 17 22:42	0°Ω10'59	21 10 16	asc. node	15049 Jun 04 19:45	16°9544'15	22 27 30
asc. Houc		0° Ω				17°523'29	
. 1	15048 Jun 17 17:12			retrograde	15049 Jun 07 19:17		
retrograde	15048 Jun 23 21:52	2° Ω 46'56		evening set	15049 Jun 12 15:26	15°9521'45	2001124
evening set	15048 Jun 28 06:45	1° Ω 01'01		inferior conj	15049 Jun 17 22:11	9° © 00'41	3°01'24
	15048 Jun 29 09:25	30°ષ્		minimum elong	15049 Jun 17 21:03	9° 5 04'39	3°00'17
inferior conj	15048 Jul 03 12:23	24° 5 349'09	3°09'39	min. Earth dist.	15049 Jun 17 18:10	9° 5 014'42	0.69066 AU
minimum elong	15048 Jul 03 12:08	24° © 50'00	3°08'43	morning rise	15049 Jun 23 02:29	2° © 48'21	
min. Earth dist.	15048 Jul 03 21:26	24°9517'40	0.68805 AU	direct	15049 Jun 27 17:33	0° © 52'24	
morning rise	15048 Jul 08 17:17	18° © 29'56		morning max el	15049 Jul 06 19:24	6° ॐ 09'44	21°42'25
direct	15048 Jul 13 20:46	16° © 15'50		desc. node	15049 Jul 07 15:14	7° 5 00'33	
desc. node	15048 Jul 20 17:59	19° © 16'51			15049 Jul 25 02:38	$0^{\circ}\Omega$	
morning max el	15048 Jul 24 05:26	22° © 25'31	23°09'20	morning set	15049 Aug 07 22:14	21° Ω 04'26	
	15048 Jul 30 20:07	0°Ω			15049 Aug 13 10:54	0° m)	
	15048 Aug 20 18:02	0° mp		max. Earth dist.	15049 Aug 14 01:15	0°Mo59'04	1.42120 AU
marning sat	15070 Aug 20 10.02			max. Earm uist.	13077 Aug 14 01.13	∪ ily3704	1.72120 AU
morning set	15048 Aug 27 16:22	0 mm 1 1 1 1 1 1					
	15048 Aug 27 16:22	11° Mp 11'42	1 20044 433		15040 4 21 16 25	120m. 540.4	1001142
max. Earth dist.	15048 Aug 31 22:23	18° Mp 22'47	1.39844 AU	superior conj	15049 Aug 21 16:25	13° m 54'24	
max. Earth dist.	•		1.39844 AU	superior conj minimum elong	15049 Aug 21 22:51	14° m 22'23	
	15048 Aug 31 22:23 15048 Sep 07 11:52	18° M 22'47 0° <u>₽</u>		minimum elong	15049 Aug 21 22:51 15049 Aug 30 16:29	14° M 22'23 0° <u>Ω</u>	
superior conj	15048 Aug 31 22:23 15048 Sep 07 11:52 15048 Sep 08 17:27	18° m 22'47 0° Ω 2° Ω 15'21	-0°46′01	minimum elong	15049 Aug 21 22:51 15049 Aug 30 16:29 15049 Aug 31 20:31	14° m 22'23	
	15048 Aug 31 22:23 15048 Sep 07 11:52	18° M 22'47 0° <u>₽</u>	-0°46′01	minimum elong	15049 Aug 21 22:51 15049 Aug 30 16:29	14° M 22'23 0° <u>Ω</u>	
superior conj	15048 Aug 31 22:23 15048 Sep 07 11:52 15048 Sep 08 17:27	18° m 22'47 0° Ω 2° Ω 15'21	-0°46′01	minimum elong	15049 Aug 21 22:51 15049 Aug 30 16:29 15049 Aug 31 20:31	14° M 22'23 0° <u>∩</u> 2° <u>∩</u> 08'09	1°21'13

page 242

15051 Jul 13 17:38

superior conj

4°Ω19'24 -2°11'17

minimum elong	15051 Jul 13 21:31	4° Ω 34'49	2°12'02	minimum elong	15052 Jun 22 00:04	13° © 15'46	2°12'22
evening rise	15051 Jul 28 02:51	27°Ω39'01	2 12 02	max. Earth dist.	15052 Jun 21 22:12	13°908'32	1.45910 AU
evening rise	15051 Jul 29 12:57	0° m)		max. Earth dist.	15052 Jul 02 16:42	0°Ω	1.43910 AO
asc. node	15051 Jul 29 12:37 15051 Aug 05 13:45	11° Mp 31'48		evening rise	15052 Jul 07 21:15	8° Ω 11'29	
	•		10012142	•		21°Ω04'45	0.0
evening max el	15051 Aug 15 20:19	25° Mp 41'43	18°13'43	greatest brilliancy	15052 Jul 16 01:17 15052 Jul 21 22:11		-0.8m
retrograde	15051 Aug 22 04:59	29° Mp 03'45		1-		0° m)	
evening set	15051 Aug 25 02:35	28° m 18'13	2000117	asc. node	15052 Jul 22 10:25	0° Mp 44'15	10042104
inferior conj	15051 Aug 31 02:28	22° m 52'46	2°00'17	evening max el	15052 Jul 29 08:41	9° Mp 25'41	18°43'04
minimum elong	15051 Aug 31 04:51	22° m/45'57	1°59'23	retrograde	15052 Aug 04 22:59	13° Mp 00'38	
min. Earth dist.	15051 Sep 02 13:13	20° mp 06'11	0.64073 AU	evening set	15052 Aug 08 05:40	11° Mp 59'10	2027156
morning rise	15051 Sep 06 05:26	16° Mp 34'17		inferior conj	15052 Aug 13 20:25	6° Mp 19'02	2°37'56
desc. node	15051 Sep 07 06:46	15° Mp 48'28		minimum elong	15052 Aug 13 22:30	6° Mp 12'34	2°37'01
direct	15051 Sep 12 19:37	14° m 00'19		min. Earth dist.	15052 Aug 15 17:19	3° m/59'53	0.65944 AU
morning max el	15051 Sep 26 14:29	21° m 59'24	27°35'47		15052 Aug 19 11:29	30°R€	
	15051 Oct 03 15:17	0∘ 亚		morning rise	15052 Aug 19 14:19	29° £ 53′56	
	15051 Oct 23 08:53	0° M ₊		desc. node	15052 Aug 24 04:16	27° Ω 26'43	
morning set	15051 Oct 31 15:47	15°M32'43		direct	15052 Aug 25 22:01	27° Ω 15'19	
asc. node	15051 Nov 01 15:37	17° M 31'49			15052 Sep 02 05:15	0° m)	
max. Earth dist.	15051 Nov 05 09:05	25°M12'06	1.32569 AU	morning max el	15052 Sep 08 01:51	5° Mp 02'42	26°42'24
	15051 Nov 07 15:19	0° ∡ ⊓			15052 Sep 27 04:32	0∘ ⊽	
				morning set	15052 Oct 13 20:51	28° ≏ 33'25	
superior conj	15051 Nov 08 15:33	2° ∡ 10′23	1°01'23		15052 Oct 14 15:00	0° M	
minimum elong	15051 Nov 08 13:14	1° ∡ 57′53	1°01'50	max. Earth dist.	15052 Oct 17 21:46	6° ™ 25′05	1.34121 AU
evening rise	15051 Nov 15 13:48	17° ∡ 12'39		asc. node	15052 Oct 18 12:18	7° M 37'49	
	15051 Nov 21 19:15	0°ಕ					
desc. node	15051 Dec 04 03:49	19° る 43'59		superior conj	15052 Oct 22 15:38	16°M06'39	0°37'39
evening max el	15051 Dec 08 04:02	24° る 08'35	22°59'57	minimum elong	15052 Oct 22 13:47	15° ™ 56'59	0°37'56
	15051 Dec 17 03:36	0° ≈			15052 Oct 29 05:13	0° ∡ ¹	
retrograde	15051 Dec 21 07:41	0° ≈ 39'57		evening rise	15052 Oct 29 23:35	1° ∡ ³36′52	
evening set	15051 Dec 25 10:39	0° ≈ 02'57			15052 Nov 15 00:26	0°ප	
	15051 Dec 25 14:39	30°Ŗる		evening max el	15052 Nov 18 18:38	4° る 15'02	21°21'23
min. Earth dist.	15052 Jan 01 13:31	26° る 45'26	0.54837 AU	desc. node	15052 Nov 20 00:57	5° る 25'59	
inferior conj	15052 Jan 02 17:57	26° る 04'49	-5°58'27	retrograde	15052 Nov 30 18:38	10°る11'44	
minimum elong	15052 Jan 02 20:13	26° る 01'33	5°57'26	evening set	15052 Dec 03 14:31	9° ට 53'17	
morning rise	15052 Jan 11 07:13	22° る 15'28		inferior conj	15052 Dec 12 09:20	6° ප 01'40	-5°43'23
direct	15052 Jan 14 05:41	21° る 55'20		minimum elong	15052 Dec 12 02:36	6° ප 11'08	5°41'29
morning max el	15052 Jan 25 15:49	27° る 24'36	20°53'38	min. Earth dist.	15052 Dec 12 19:13	5° る 47'46	0.54433 AU
	15052 Jan 28 02:35	0° ≈		morning rise	15052 Dec 20 15:11	2° る 11'59	
asc. node	15052 Jan 28 14:42	0° ≈ 35'36		direct	15052 Dec 24 13:20	1° る 38'40	
morning set	15052 Feb 13 22:44	28° ≈ 42'37		morning max el	15053 Jan 06 08:48	7° る 50'39	22°34'00
	15052 Feb 14 13:38	0° ∀		asc. node	15053 Jan 14 12:00	17° る 45'06	
					15053 Jan 21 17:58	0° ≈	
superior conj	15052 Feb 21 08:25	14° 米 06′55	1°08'56	morning set	15053 Jan 28 09:45	13° ≈ 27′05	
minimum elong	15052 Feb 21 11:00	14° ∺ 20′10	1°08'56				
max. Earth dist.	15052 Feb 26 09:53	24° ₩ 15′04	1.35659 AU	superior conj	15053 Feb 04 09:45	28° ≈ 27'31	1°24'57
	15052 Feb 29 09:59	0° Y		minimum elong	15053 Feb 04 11:48	28° ≈ 38′26	1°25'21
evening rise	15052 Mar 01 08:11	1° Y 43'35			15053 Feb 05 03:10	0° ∀	
desc. node	15052 Mar 01 04:41	1° Y 27'23		max. Earth dist.	15053 Feb 08 00:49	6° ₩ 04'05	1.33816 AU
	15052 Mar 18 07:31	0° 8		evening rise	15053 Feb 12 12:39	15° ₩ 04'49	
evening max el	15052 Apr 05 17:29	23° 8 16'10	26°16'06	desc. node	15053 Feb 16 01:16	21°) 46′53	
	15052 Apr 15 06:19	$\Pi^{\circ}0$			15053 Feb 20 15:20	0° Y	
retrograde	15052 Apr 18 14:09	0°Ⅲ36'46			15053 Mar 12 23:22	0° 8	
	15052 Apr 21 17:04	30° ₹ 8		evening max el	15053 Mar 19 07:08	6° 8 54'01	27°07'06
evening set	15052 Apr 24 19:55	28° 8 05'03		retrograde	15053 Apr 01 18:07	14° 8 23'56	
asc. node	15052 Apr 25 11:20	27° 8 31'46		evening set	15053 Apr 08 08:18	11° 8 52'29	
min. Earth dist.	15052 Apr 28 22:40	23° 8 47'10	0.67004 AU	asc. node	15053 Apr 12 08:42	8° 8 00'37	
inferior conj	15052 Apr 30 17:16	21° 8 36'15	1°33'14	min. Earth dist.	15053 Apr 12 06:10	8° 8 07'37	0.65443 AU
minimum elong	15052 Apr 30 15:17	21° 8 42'21	1°31'53	inferior conj	15053 Apr 14 13:11	5° 8 32'07	0°40'47
morning rise	15052 May 06 11:33	15° 8 52'30		minimum elong	15053 Apr 14 12:06	5° 8 35'10	0°39'54
direct	15052 May 09 15:59	14° 8 55'10		morning rise	15053 Apr 20 17:33	0° 8 00'52	
morning max el	15052 May 16 04:47	18° 8 23'49	18°32'25		15053 Apr 20 18:15	30° ₹Ƴ	
	15052 May 25 05:17	Π $^{\circ}$ 0		direct	15053 Apr 23 12:18	29° Y 19'20	
desc. node	15052 May 28 06:21	4° Ⅱ 35'46			15053 Apr 26 07:03	9° 8	
morning set	15052 Jun 06 05:11	18° Ⅲ 34′04		morning max el	15053 Apr 29 20:01	2° 8 36'40	18°01'03
	15052 Jun 13 12:08	0ංම		desc. node	15053 May 15 03:12	24° 8 39'26	
				morning set	15053 May 18 02:16	29° 8 29'25	
superior conj	15052 Jun 22 03:51	13°930'34	-2°11'30	-	15053 May 18 09:46	Π°	
-							

superior conj	15053 Jun 01 15:21	22° I 51'42		superior conj	15054 May 12 19:21	3° I 100'55	
minimum elong	15053 Jun 01 06:41	22° I 17'35		minimum elong	15054 May 12 11:49	2° Ⅲ 30′11	1°18'41
max. Earth dist.	15053 Jun 04 18:16	27° Ⅱ 45'50	1.45755 AU	max. Earth dist.	15054 May 18 13:12	12° Ⅱ 15′09	1.44877 AU
	15053 Jun 06 04:37	0° ©		evening rise	15054 May 28 04:30	27° Ⅱ 16′05	
evening rise	15053 Jun 17 17:42	17°952'19			15054 May 29 23:25	0°99	
	15053 Jun 25 15:53	0° Ω			15054 Jun 19 16:16	0°€	
greatest brilliancy	15053 Jun 30 22:22	7° Ω 54'20	-0.7m	evening max el	15054 Jun 25 18:46	7° Ω 08'38	20°29'50
asc. node	15053 Jul 09 07:12	19° Ω 27'43	10020101	asc. node	15054 Jun 26 04:04	7° Ω 31'32	
evening max el	15053 Jul 12 16:38	23° Ω 16′20	19°29'01	retrograde	15054 Jul 03 19:35	11° Ω 44'52	
retrograde	15053 Jul 19 20:39	$27^{\circ}\Omega 16'30$ $25^{\circ}\Omega 57'50$		evening set	15054 Jul 07 22:21	10°Ω08'37 4°Ω03'13	2000122
evening set	15053 Jul 23 13:01	$25^{\circ} \Omega 04'28$	2900114	inferior conj	15054 Jul 13 04:27	$4^{\circ} \Omega 03^{\circ} 13$ $4^{\circ} \Omega 02^{\circ} 08$	3°09'32 3°08'39
inferior conj minimum elong	15053 Jul 28 21:58 15053 Jul 28 23:15	20° Ω 00'12	3°00'14 2°59'22	minimum elong min. Earth dist.	15054 Jul 13 04:45	3°Ω05'36	0.68439 AU
min. Earth dist.	15053 Jul 30 04:39	$18^{\circ}\Omega 23'08$	0.67419 AU	mm. Earm dist.	15054 Jul 13 21:13 15054 Jul 16 06:11	30°R©	0.08439 AU
morning rise	15053 Jul 30 04.39 15053 Aug 03 08:56	13° Ω 38'56	0.07419 AU	morning rise	15054 Jul 18 10:52	აი ჯუ 27°9541'10	
direct	15053 Aug 09 07:06	13° Ω 04'26		direct	15054 Jul 23 21:29	25°9518'07	
desc. node	15053 Aug 09 07:00 15053 Aug 11 01:43	11° Ω 16'34		desc. node	15054 Jul 28 23:07	26°956'48	
morning max el	15053 Aug 21 12:51	18° Ω 24'04	25°27'33	desc. node	15054 Aug 01 23:12	0°Ω	
morning max ci	15053 Aug 21 12:51 15053 Aug 31 07:52	0°m	23 21 33	morning max el	15054 Aug 01 23:12 15054 Aug 03 23:24		24°00'53
	15053 Nag 51 07:32 15053 Sep 20 05:12	0∘ ⊽		morning max er	15054 Aug 25 07:54	0° m)	24 00 33
morning set	15053 Sep 26 11:05	ა — 10° ჲ 53'44		morning set	15054 Sep 08 06:09	22° Mp 22'47	
max. Earth dist.	15053 Sep 30 01:00	17° £ 29'20	1.36147 AU	max. Earth dist.	15054 Sep 11 23:36	28° m 52'20	1.38478 AU
asc. node	15053 Oct 05 08:57	27° £ 47'10	1.50117110	max. Earth dist.	15054 Sep 12 14:49	0° ⊽	1.50170710
ase. noue	10000 000 00 00.07	27 — 10			1000 : 50р 12 1	~	
superior conj	15053 Oct 06 06:56	29° ₽ 36'35	0°08'25	superior conj	15054 Sep 19 09:53	12° £ 30'58	-0°25'19
minimum elong	15053 Oct 06 06:25	29° ₽ 33'57	0°08'43	minimum elong	15054 Sep 19 11:40	12° ₽ 39'23	0°24'53
behind sun begin	15053 Oct 06 01:04	29° ♀ 07'16		asc. node	15054 Sep 22 05:33	17° £ 55'40	
behind sun end	15053 Oct 06 11:45	0°ML00'41		evening rise	15054 Sep 28 06:53	29° ≏ 49'00	
	15053 Oct 06 11:37	0° M .		· ·	15054 Sep 28 09:07	0° M .	
evening rise	15053 Oct 14 06:09	15°M51'22		evening max el	15054 Oct 14 15:54	26°MJ36'02	18°59'30
	15053 Oct 21 11:41	0° ∡ ¹		•	15054 Oct 19 04:50	0° ∡ ¹	
evening max el	15053 Oct 31 22:13	15° ∡ ¹01'00	19°59'34	retrograde	15054 Oct 23 11:15	1° ∡ ¹01'54	
desc. node	15053 Nov 06 22:11	19° ∡ 17′03		desc. node	15054 Oct 24 19:31	0° ∡ 756′05	
retrograde	15053 Nov 11 07:38	20° ∡ 11'40		evening set	15054 Oct 25 08:19	0° ∡ 750'37	
evening set	15053 Nov 13 08:58	20° √ 00′27			15054 Oct 27 23:28	30°RM₊	
inferior conj	15053 Nov 22 04:48	16° ₹ 01'44	-4°31'28	inferior conj	15054 Nov 02 16:41	26°MJ34'17	-2°48'46
minimum elong	15053 Nov 21 18:43	16° ∡ 16'58	4°27'38	minimum elong	15054 Nov 02 09:40	26°M46'31	2°45'21
min. Earth dist.	15053 Nov 24 02:24	14° ∡ ¹52'41	0.54977 AU	min. Earth dist.	15054 Nov 05 13:50	24°M34'22	0.56357 AU
morning rise	15053 Nov 30 03:20	11° ₹ ′52'38		morning rise	15054 Nov 10 08:12	21°M51'10	
direct	15053 Dec 05 01:28	10° ₹ 759'43		direct	15054 Nov 16 01:43	20°M34'03	
morning max el	15053 Dec 18 18:03	17° ∡ ¹46'39	24°23'35	morning max el	15054 Nov 30 04:59	27°M48'33	26°04'28
	15053 Dec 28 17:03	0°ಕ			15054 Dec 02 08:49	0° ∡ ¹	
asc. node	15054 Jan 01 09:14	5° ⋜ 49'54		asc. node	15054 Dec 19 06:23	24° ∡ ³35'50	
morning set	15054 Jan 12 21:44	28° る 10'17			15054 Dec 22 03:20	0° ろ	
	15054 Jan 13 18:04	0° ≈		morning set	15054 Dec 28 08:52	12° る 47'21	
	150541 10 16 20	120 - 01107	102.422		15055 1 04 02 52	270741106	1027157
superior conj	15054 Jan 19 16:39	13°≈01'06		superior conj	15055 Jan 04 02:52	27°る41'06	1°37'57
minimum elong	15054 Jan 19 17:47	13°≈07'16	1°35'17	minimum elong	15055 Jan 04 02:56	27° る 41'27	1°38'53
max. Earth dist.	15054 Jan 21 23:37 15054 Jan 27 04:05	17°≈59'44	1.32410 AU	max. Earth dist.	15055 Jan 05 04:38	0°≈04'18	1.31488 AU
evening rise	15054 Jan 27 17:29	28°≈52'17 0°) €		avanina risa	15055 Jan 05 03:52 15055 Jan 11 03:40	0° ≈ 12° ≈ 58'47	
desc. node	15054 Jan 27 17.29 15054 Feb 02 21:53	0 X 11° ¥ 52'43		evening rise	15055 Jan 19 20:30	12 ≈3847 0° ∺	
desc. Hode	15054 Feb 13 18:44	11 γ (3243		desc. node	15055 Jan 20 18:34	1° ¥ 38'57	
avaning may al	15054 Mar 01 19:40	20° Υ '08'44	27°33'15	desc. node	15055 Feb 09 10:51	1 γ (3837	
evening max el retrograde	15054 Mar 15 15:02	20 1 08 44 27° Υ 37'43	27 33 13	evening max el	15055 Feb 12 04:43	2° Υ 47'18	27°28'18
evening set	15054 Mar 22 10:31	25° Υ 13'29		retrograde	15055 Feb 26 03:50	10° Υ 09'12	27 28 18
min. Earth dist.	15054 Mar 26 05:21	21° Υ '57'59	0.63542 AU	evening set	15055 Mar 04 23:50	7° Υ 59'23	
inferior conj	15054 Mar 28 23:34	19° Υ '09'22		min. Earth dist.	15055 Mar 08 18:36	5° Υ 07'18	0.61402 AU
minimum elong	15054 Mar 29 00:21	19° Υ 07'23	0°24'24	inferior conj	15055 Mar 11 21:09	2° Υ 19'38	
asc. node	15054 Mar 30 06:08	17° Υ 52'31	J 2 1 2 T	minimum elong	15055 Mar 12 00:48	2° Υ 11'24	
morning rise	15054 Apr 04 16:38	13° Υ 53'03			15055 Mar 14 14:08	2 11124 30°R ∺	1 10 30
direct	15054 Apr 07 03:02	13° Υ 24'00		asc. node	15055 Mar 17 03:36	28° ₩ 15'01	
morning max el	15054 Apr 07 03:02 15054 Apr 13 13:35	16° Υ 41'27	17°46'58	morning rise	15055 Mar 19 04:54	27° H 21'21	
	15054 Apr 23 04:08	0°8		direct	15055 Mar 21 08:42	27° \ 01'17	
morning set	15054 Apr 30 01:58	11° 8 40'51			15055 Mar 27 17:49	0° Υ	
desc. node	15054 May 01 23:57	14° 8 57'15		morning max el	15055 Mar 28 06:27	0° Υ 29'50	17°50'48
				•			
	15054 May 10 23:08	Π \circ 0		morning set	15055 Apr 12 22:47	24° Y 51'33	

desc. node	15055 Apr 15 19:32 15055 Apr 18 20:36	0° と 5° と 24'43		superior conj minimum elong behind sun begin	15056 Apr 05 00:59 15056 Apr 05 00:45 15056 Apr 04 17:22	26° Y 32'23 26° Y 31'19 25° Y 57'55	
superior conj	15055 Apr 23 22:53	14° 8 15'56		behind sun end	15056 Apr 05 08:09	27° Y ′04'38	
minimum elong	15055 Apr 23 19:11	14° 8 00'08	0°40'12		15056 Apr 06 23:23	0°8	
max. Earth dist.	15055 May 01 04:55	26° 8 21'48	1.43364 AU	max. Earth dist.	15056 Apr 12 15:31	9° 8 49'50	1.41375 AU
evening rise	15055 May 03 10:54 15055 May 07 22:06	0° Ц 7° Ц 04'38		evening rise	15056 Apr 17 09:34 15056 Apr 25 04:38	17° 8 42'30 0° Ⅱ	
evening rise	15055 May 23 05:04	7 до 4 38			15056 May 16 19:56	0°©	
evening max el	15055 Jun 08 15:06	21° © 00'59	21°42'25	evening max el	15056 May 21 06:59	4°953'13	23°02'17
asc. node	15055 Jun 13 01:03	24°9542'48	21 .220	asc. node	15056 May 29 22:08	10°9544'46	25 02 17
retrograde	15055 Jun 17 18:03	26°\$20'30		retrograde	15056 May 31 14:29	10° © 57'14	
evening set	15055 Jun 22 07:47	24°527'24		evening set	15056 Jun 05 15:37	8° 5 49'06	
inferior conj	15055 Jun 27 13:36	18° © 11'21	3°07'25	inferior conj	15056 Jun 10 23:26	2° © 24'37	2°54'45
minimum elong	15055 Jun 27 12:58	18° © 13'36	3°06'25	minimum elong	15056 Jun 10 21:59	2° © 29'41	2°53'34
min. Earth dist.	15055 Jun 27 16:58	17° © 59'35	0.68977 AU	min. Earth dist.	15056 Jun 10 13:51	2° © 57'52	0.69027 AU
morning rise	15055 Jul 02 17:58	11°955'09			15056 Jun 12 18:01	30°RⅡ	
direct	15055 Jul 07 16:10	9°548'36		morning rise	15056 Jun 16 04:16	26° Ⅱ 15'43	
desc. node	15055 Jul 15 20:25	14° © 02'10 15° © 35'31	22021142	direct	15056 Jun 20 13:59	24° Ⅱ 28'26 29° Ⅱ 24'44	2190750
morning max el	15055 Jul 17 11:29 15055 Jul 29 05:54	0°Ω	22 31 42	morning max el	15056 Jun 29 03:48 15056 Jun 29 17:42	29 п 24 44 0° ©	21 07 39
	15055 Aug 18 07:33	0° m)		desc. node	15056 Jul 01 17:37	2° © 10'23	
morning set	15055 Aug 20 02:07	2° m 52'00		dese. Hode	15056 Jul 21 21:07	0°Ω	
max. Earth dist.	15055 Aug 24 23:57	11° m) 00'05	1.40849 AU	morning set	15056 Jul 29 22:13	12° Ω 20'32	
	Č	•		max. Earth dist.	15056 Aug 06 05:40	23° Ω 59'46	1.42978 AU
superior conj	15055 Sep 01 20:20	24° Mp 40'18	-1°01'21		15056 Aug 09 21:20	0° m)	
minimum elong	15055 Sep 02 01:07	25° m 01'49	1°00'48				
	15055 Sep 04 18:46	0∘ ⊽		superior conj	15056 Aug 13 09:52	5° m 55'08	-1°35'46
asc. node	15055 Sep 09 02:08	7° ≏ 59'58		minimum elong	15056 Aug 13 17:11	6°M)26'12	1°35'25
evening rise	15055 Sep 11 22:35	13° Ω 21'57		evening rise	15056 Aug 25 01:04	26° Mp 19'24	
	15055 Sep 21 04:33	0°M	10021110	asc. node	15056 Aug 25 22:43	27° m 56'22	
evening max el retrograde	15055 Sep 27 20:41 15055 Oct 05 10:20	8°ጤ56'18 12°ጤ47'07	18°21'19	evening max el	15056 Aug 27 02:21 15056 Sep 10 08:21	0° ჲ 21° ჲ 52'37	18°03'37
evening set	15055 Oct 07 11:15	12°M31'03		retrograde	15056 Sep 17 02:47	21° ⊆ 3237 25° ⊆ 21'22	16 03 37
desc. node	15055 Oct 11 16:54	10°M28'17		evening set	15056 Sep 19 10:57	24° £ 56'30	
inferior conj	15055 Oct 15 02:15	7°M53'38	-1°04'58	inferior conj	15056 Sep 26 08:31	19° ≏ 58'56	0°23'04
minimum elong	15055 Oct 14 23:47	7°M58'40	1°03'27	minimum elong	15056 Sep 26 09:15	19° ≙ 57'12	0°23'02
min. Earth dist.	15055 Oct 18 08:30	5°M15′05	0.58326 AU	desc. node	15056 Sep 27 14:19	18° ≏ 48'07	
morning rise	15055 Oct 22 08:50	2°M33'17		min. Earth dist.	15056 Sep 29 12:22	17° ≏ 01'02	0.60585 AU
direct	15055 Oct 28 16:04	0° M 49′19		morning rise	15056 Oct 03 04:26	14° ഫ 08'12	
morning max el	15055 Nov 11 23:21		27°18'34	direct	15056 Oct 09 19:15	11° ≏ 59'07	
,	15055 Nov 28 07:44	0° ₹ ¹		morning max el	15056 Oct 24 01:30	19° ≏ 52'18	27°55'21
asc. node	15055 Dec 06 03:23	13° ₹ 51'52 27° ₹ 13'06			15056 Nov 01 17:55 15056 Nov 20 05:10	0°M 0° <i>⊼</i> 7	
morning set	15055 Dec 12 17:22 15055 Dec 14 00:25	0°る		asc. node	15056 Nov 22 00:18	3° х¹ 29'47	
	13033 Dec 14 00.23	0 0		morning set	15056 Nov 25 21:20	11° x ² 22'56	
superior conj	15055 Dec 19 14:22	12° る 21'25	1°35'23	max. Earth dist.	15056 Dec 01 19:33		1.31223 AU
minimum elong	15055 Dec 19 13:24	12° පි 16'02	1°36'18				
max. Earth dist.	15055 Dec 19 12:32	12° る 11'12	1.31085 AU	superior conj	15056 Dec 03 01:19	26° ₹ '57'04	1°26'53
evening rise	15055 Dec 26 08:56	27° る 17'57		minimum elong	15056 Dec 02 23:31	26° х 47′05	1°27'39
	15055 Dec 27 15:29	0° ≈			15056 Dec 04 10:08	0°ಕ	
desc. node	15056 Jan 07 15:20	20°≈57'10		evening rise	15056 Dec 09 17:54	11° る 45'00	
. ,	15056 Jan 13 08:21	0°) {	26040125		15056 Dec 18 20:12	0° ≈	
evening max el	15056 Jan 25 07:23 15056 Feb 08 07:13	14°) 37'03 21°) 49'14	26°48'35	desc. node	15056 Dec 24 12:10	9°≈36'54 25°≈34'00	25°35'47
retrograde evening set	15056 Feb 14 20:50	20° H 01'01		evening max el	15057 Jan 06 01:49 15057 Jan 11 17:46	23 ≈ 34 00 0° ∺	23 33 47
min. Earth dist.	15056 Feb 18 21:17		0.59179 AU	retrograde	15057 Jan 19 23:30	2° ∺ 34'19	
inferior conj	15056 Feb 22 02:07	14°) 52'00		evening set	15057 Jan 25 21:40	1°) 13′39	
minimum elong	15056 Feb 22 09:10	14° ¥ 38′09		Č	15057 Jan 28 07:17	30°R≈	
morning rise	15056 Mar 01 00:52	10°) 14'36		min. Earth dist.	15057 Jan 30 14:32	28° ≈ 34'04	0.57105 AU
direct	15056 Mar 03 00:50	10° ∺ 00′02		inferior conj	15057 Feb 02 11:09	26° ≈ 37′28	-4°34'29
asc. node	15056 Mar 03 01:04	10° ∺ 00′02		minimum elong	15057 Feb 02 20:20	26° ≈ 21'51	4°31'18
morning max el	15056 Mar 10 18:56	13° ¥ 50′39	18°13'46	morning rise	15057 Feb 10 21:50	22° ≈ 21'45	
	15056 Mar 21 18:02	0°Υ 0°Ω42156		direct	15057 Feb 12 23:13	22°≈08'55	
morning set	15056 Mar 26 10:45	8°Y42'56		asc. node	15057 Feb 17 22:28	23°≈28'48	10057142
desc. node	15056 Apr 04 17:11	25° Y 57'07		morning max el	15057 Feb 21 22:59 15057 Feb 25 00:26	26°≈32'26 0° 米	18°57'43
					1303/ Feb 23 00:26	υ π	

morning set	15057 Mar 10 09:14	23° ¥ 01'26		morning set	15058 Feb 22 14:41	7°){ 36′22	
morning set	15057 Mar 10 09:14 15057 Mar 13 22:15	25 π 01 26		morning set	13038 Feb 22 14.41	/ Ж3022	
	13037 14141 13 22.13	0 1		superior conj	15058 Mar 02 08:19	23° ¥ 21'57	0°56'40
superior conj	15057 Mar 18 21:37	9° Y 38'33	0°30'09	minimum elong	15058 Mar 02 10:55	23°) 34'56	0°56'29
minimum elong	15057 Mar 18 23:28	9° Ƴ 47'18	0°29'46	_	15058 Mar 05 17:10	0 ° Υ	
desc. node	15057 Mar 22 13:46	16° Ƴ 31'08		max. Earth dist.	15058 Mar 08 04:47	4° Y 44'43	1.36878 AU
max. Earth dist.	15057 Mar 25 22:05	22° Y '34'16	1.39133 AU	desc. node	15058 Mar 09 10:19	7° Y 02'47	
evening rise	15057 Mar 29 18:19	29° Y 16′05		evening rise	15058 Mar 11 22:46	11° Y 39'12	
	15057 Mar 30 04:38	0°8			15058 Mar 22 19:26	0°8	
	15057 Apr 18 14:11	0°Щ			15058 Apr 13 20:09	0°Щ	
evening max el	15057 May 03 20:46		24°23'21	evening max el	15058 Apr 16 10:24	2° ∏ 41'04	25°38'32
retrograde	15057 May 15 07:36	25° Ⅱ 29'15		retrograde	15058 Apr 28 20:14	9° ∏ 50'31	
asc. node	15057 May 16 19:17	25° Ⅱ 19'41		asc. node	15058 May 03 16:30	8° Ⅱ 14'15	
evening set	15057 May 20 20:14	23° Ⅱ 08'56 17° Ⅱ 54'28	0.69601 ATT	evening set	15058 May 04 20:02	7° П 21'48 2° П 43'34	0 (7712 AII
min. Earth dist.	15057 May 25 09:42 15057 May 26 08:03	1/°Щ34°28 16°Щ39'12	0.68601 AU 2°31'42	min. Earth dist. inferior conj	15058 May 09 02:24 15058 May 10 13:32	2°Щ43°34 0°Щ51'17	0.67713 AU 1°57'55
minimum elong	15057 May 26 06:03	16° Ⅱ 3912	2°30'20	minimum elong	15058 May 10 13:32 15058 May 10 11:23	0° П 51'17	1°56'29
morning rise	15057 May 31 15:58	10° Ⅱ 38'53	2 30 20	minimum ciong	15058 May 10 11:25	30°R 8	1 302)
direct	15057 Jun 04 13:43	9° Ⅱ 11'41		morning rise	15058 May 16 03:14	25° 8 00'52	
morning max el	15057 Jun 12 02:42	13° Ⅲ 24'25	19°55'34	direct	15058 May 19 13:47	23° 8 53'02	
desc. node	15057 Jun 18 14:44	21° I I04'50		morning max el	15058 May 26 09:02		18°58'04
	15057 Jun 25 00:01	0°99		C	15058 May 28 15:30	0°II	
morning set	15057 Jul 09 02:24	21°9510'06		desc. node	15058 Jun 05 11:45	10° Ⅱ 33'26	
-	15057 Jul 14 19:20	$0^{\circ}\Omega$		greatest brilliancy	15058 Jun 08 15:46	15° Ⅱ 16′26	-0.7m
max. Earth dist.	15057 Jul 19 17:45	7° Ω 45'39	1.44638 AU	morning set	15058 Jun 18 09:55	0° 5 14'49	
					15058 Jun 18 06:05	0 \circ \odot	
superior conj	15057 Jul 24 23:48	16° Ω 10′26	-2°02'25	max. Earth dist.	15058 Jul 02 11:21	22° © 06'16	1.45658 AU
minimum elong	15057 Jul 25 06:29	16° Ω 37'31	2°02'44				
	15057 Aug 02 09:04	0° m)		superior conj	15058 Jul 04 17:05	25° © 36'52	
evening rise	15057 Aug 07 09:08	8° m/27'39		minimum elong	15058 Jul 04 17:53	25° © 39'59	2°14'48
asc. node	15057 Aug 12 19:18	17° m 39'53			15058 Jul 07 11:57	0°N	
·	15057 Aug 20 15:10	0∘ ⊽	10004154	evening rise	15058 Jul 19 18:00	19° Ω 36'23	
evening max el	15057 Aug 24 22:55	5° £ 14'08	18°04'54	4.	15058 Jul 26 04:07	0° Mp 7° Mp 0.514.4	
retrograde	15057 Aug 31 08:19 15057 Sep 03 00:55	8° ♀ 34'30 7° ♀ 57'15		asc. node evening max el	15058 Jul 30 15:57	7° Mp 05'44	18°24'10
evening set inferior conj	15057 Sep 03 00.33 15057 Sep 09 07:43	2° 2 41'33	1°30'32	retrograde	15058 Aug 08 12:59 15058 Aug 14 22:49	18° m 52'36 22° m 18'09	16 24 10
minimum elong	15057 Sep 09 09:53	2° <u>•</u> 35'44	1°29'46	evening set	15058 Aug 14 22:49 15058 Aug 18 00:20	21° m) 25'55	
minimum crong	15057 Sep 11 20:15	30°R, MD	1 25 10	inferior conj	15058 Aug 23 19:54	15° m 54'06	2°18'17
min. Earth dist.	15057 Sep 12 01:54	29° m/45'26	0.62854 AU	minimum elong	15058 Aug 23 22:14	15° m 47'09	
desc. node	15057 Sep 14 11:48	27° m/28'09		min. Earth dist.	15058 Aug 26 00:52		0.64915 AU
morning rise	15057 Sep 15 16:39	26° m 30'39		morning rise	15058 Aug 29 18:49	9° m 32'14	
direct	15057 Sep 22 08:49	24° Mp 03'03		desc. node	15058 Sep 01 09:17	7° m 50'34	
	15057 Oct 04 05:14	0∘ ⊽		direct	15058 Sep 05 06:50	6°M 55'11	
morning max el	15057 Oct 06 09:08	2° ჲ 02'59	27°53'07	morning max el	15058 Sep 18 19:48		27°16'19
	15057 Oct 27 01:37	0° M			15058 Oct 01 05:23	0∘ ⊽	
asc. node	15057 Nov 08 21:06	23°M22'25			15058 Oct 19 18:37	0° M	
morning set	15057 Nov 09 18:33	25°M10'36		morning set	15058 Oct 24 06:25	8°M30'21	
E d F d	15057 Nov 12 02:44	0° ₹ ⁷	1 21017 ATT	asc. node	15058 Oct 26 17:51	13°M24'54	1 22160 411
max. Earth dist.	15057 Nov 14 21:53	5° ≯ 56′25	1.31917 AU	max. Earth dist.	15058 Oct 28 16:15	1/*11620'58	1.33169 AU
superior conj	15057 Nov 17 09:46	11° ∡ '21'48	1°12'26	superior conj	15058 Nov 01 13:37	25°M30'23	0°52'02
minimum elong	15057 Nov 17 07:30	11° × ²¹ 40	1°12'59	minimum elong	15058 Nov 01 13:37	25°M18'36	
evening rise	15057 Nov 24 04:37	26° × 14'29	1 1237	minimum ciong	15058 Nov 03 15:56	0° ₹	0 32 24
	15057 Nov 25 22:51	0°ප		evening rise	15058 Nov 08 15:20	10° ∡ 742'18	
desc. node	15057 Dec 11 09:07	27° ට 23'14		<i>Q</i> 11	15058 Nov 18 11:01	5°0	
	15057 Dec 13 08:32	0° ≈		desc. node	15058 Nov 28 06:11	13° る 57'29	
evening max el	15057 Dec 18 13:07	5° ≈ 47'12	23°59'31	evening max el	15058 Nov 29 23:41	15° る 45'05	22°16'37
retrograde	15058 Jan 01 02:25	12° ≈ 31'02		retrograde	15058 Dec 12 16:53	22° る 02'49	
evening set	15058 Jan 05 23:20	11° ≈ 39′26		evening set	15058 Dec 16 06:09	21° පි 35'00	
min. Earth dist.	15058 Jan 12 00:35		0.55471 AU	inferior conj	15058 Dec 24 19:03	17° る 41'44	
inferior conj	15058 Jan 13 23:17	7° ≈ 31'14		minimum elong	15058 Dec 24 17:19	17° ප් 44'11	
minimum elong	15058 Jan 14 05:55	7° ≈ 21'16	5°38'14	min. Earth dist.	15058 Dec 24 06:31		0.54559 AU
morning rise	15058 Jan 22 14:14	3°≈34'11		morning rise	15059 Jan 02 05:31	13°る54'32	
direct	15058 Jan 25 02:07	3°≈18'21	2000 412.7	direct	15059 Jan 05 13:52	13° る 29'27	21024117
morning max el	15058 Feb 04 14:24	8°≈22'55	20*04'3/	morning max el	15059 Jan 17 14:54	19° る 17'06	21~34.15
asc. node	15058 Feb 04 19:50	8° ≈ 36'13 0°) €		asc. node	15059 Jan 22 17:11	25°る06'29 0°≈	
	15058 Feb 18 19:25	υπ			15059 Jan 26 02:34	U 🌤	

morning set	15059 Feb 07 00:19	22° ≈ 19'35			15059 Dec 30 17:16	8°0	
	15059 Feb 10 15:29	0° ∀		asc. node	15060 Jan 09 14:29	12° る 41'40	
aumorior coni	15050 Eab 14 05:14	70 W 21140	1916121	marning sat	15060 Jan 19 02:41	0°≈ 7°0 004!57	
superior conj minimum elong	15059 Feb 14 05:14 15059 Feb 14 07:40	7°) (31'40 7°) (44'19	1°16'31 1°16'42	morning set	15060 Jan 22 12:01	7° ≈ 04'57	
max. Earth dist.	15059 Feb 18 16:04	, , , , , , , , ,	1.34833 AU	superior conj	15060 Jan 29 09:18	21° ≈ 59'20	1°29'47
evening rise	15059 Feb 22 19:28	24°) (41'51	1.5 1055 110	minimum elong	15060 Jan 29 10:59	22°≈08'27	1°30'20
desc. node	15059 Feb 24 06:52	27° ¥ 28′01		max. Earth dist.	15060 Feb 01 10:36	28° ≈ 30'07	1.33160 AU
	15059 Feb 25 15:52	0° Y			15060 Feb 02 03:45	0°)	
	15059 Mar 16 08:20	0°8		evening rise	15060 Feb 06 05:01	8° 升 15′32	
evening max el	15059 Mar 30 00:14	16° 8 27'50	26°40'24	desc. node	15060 Feb 11 03:27	17°) 42′40	
retrograde	15059 Apr 12 03:27	23° 8 52'55			15060 Feb 18 04:13	0° Υ	
evening set	15059 Apr 18 13:11	21° 8 20'40		evening max el	15060 Mar 11 13:32	29° Y ′57′19	27°21'31
asc. node	15059 Apr 20 13:50	19° 8 29'05	0.66201 ATT		15060 Mar 11 14:39	0° と 7° と 27'46	
min. Earth dist. inferior conj	15059 Apr 22 13:45 15059 Apr 24 13:39	1/° 8 54'53	0.66391 AU 1°12'34	retrograde evening set	15060 Mar 25 04:26 15060 Mar 31 21:34	4° 8 58'12	
minimum elong	15059 Apr 24 11:58	14° 8 59'57	1°11'21	min. Earth dist.	15060 Apr 04 17:46	1° 8 26'44	0.64679 AU
morning rise	15059 Apr 30 11:53	9° 8 16'10	1 1121	asc. node	15060 Apr 04 17:46	29° Y 34'55	0.04077710
direct	15059 May 03 12:11	8° 8 25'45		use. Hode	15060 Apr 06 02:03	30°R Y	
morning max el	15059 May 09 21:40	11° 8 47'45	18°17'01	inferior conj	15060 Apr 07 05:54	28° Ƴ 43'55	0°14'44
desc. node	15059 May 23 08:40	0° Ⅲ 26′22		minimum elong	15060 Apr 07 05:29	28° Y 45'03	0°14'11
	15059 May 23 01:58	$\Pi^{\circ}0$		transit middle	15060 Apr 07 05:29	28° Ƴ 45′03	0°14'11
morning set	15059 May 29 15:01	10° Ⅱ 24′08		transit begin	15060 Apr 07 04:04	28° Ƴ 48'54	
	15059 Jun 11 00:25	0 \circ \odot		transit end	15060 Apr 07 06:54	28° Ƴ 41'12	
				morning rise	15060 Apr 13 15:24	23° Y 18'58	
superior conj	15059 Jun 14 01:37	4°5546'14		direct	15060 Apr 16 06:29	22°43'10	
minimum elong	15059 Jun 13 19:01	4°520'29		morning max el	15060 Apr 22 14:20	25° Y 58'51	17°52'57
max. Earth dist.	15059 Jun 15 07:43 15059 Jun 30 02:13	6° © 43'45 29° © 44'27	1.45942 AU	desc. node	15060 Apr 26 02:01	0°8 20°836'50	
evening rise	15059 Jun 30 02:13	29 9344 27 0°Ω		morning set	15060 May 09 05:29 15060 May 09 23:54	20 8 53'28	
greatest brilliancy	15059 Jul 10 13:26	15° Ω 57'30	-0.8m	morning set	15060 May 14 21:20	0° Ⅱ	
asc. node	15059 Jul 17 12:41	26°Ω06'46	0.0111		13000 May 11 21.20	• 1	
	15059 Jul 20 13:28	0° m)		superior conj	15060 May 23 18:42	14° Ⅱ 24'26	-1°39'09
evening max el	15059 Jul 22 23:42	2°m/39'50	19°00'37	minimum elong	15060 May 23 09:55	13° Ⅱ 49′26	1°39'10
retrograde	15059 Jul 29 18:46	6° Mg 23′55		max. Earth dist.	15060 May 28 03:48	21° Ⅱ 20′19	1.45471 AU
evening set	15059 Aug 02 05:34	5° Mp 15'02			15060 Jun 02 17:02	0ං ම	
	15059 Aug 07 07:41	30°R Ω		evening rise	15060 Jun 08 16:38	9°512'52	
inferior conj	15059 Aug 07 17:26	29° Ω 28'53	2°49'06		15060 Jun 22 12:15	0 ° Ω	
minimum elong	15059 Aug 07 19:13	29° Ω 23'11	2°48'13	greatest brilliancy	15060 Jun 23 08:34	1° Ω 13'53	-0.6m
min. Earth dist.	15059 Aug 09 08:10	27° Ω 25'11 23° Ω 03'08	0.66627 AU	asc. node evening max el	15060 Jul 03 09:30	14° Ω 34'32 16° Ω 30'52	19°53'06
morning rise desc. node	15059 Aug 13 08:08 15059 Aug 19 06:47	$20^{\circ}\Omega 25'47$		retrograde	15060 Jul 05 05:10 15060 Jul 12 17:20	10 δ l 30 32 20° Ω 45'33	19 33 00
direct	15059 Aug 19 00:47 15059 Aug 19 12:00	$20^{\circ}\Omega 25'36$		evening set	15060 Jul 16 14:01	19° Ω 19'22	
morning max el	15059 Sep 01 07:13	28° Ω 02'29	26°12'42	inferior conj	15060 Jul 21 21:23	13° Ω 20'26	3°05'39
	15059 Sep 03 03:59	0° m)		minimum elong	15060 Jul 21 22:16	13° Ω 17′28	3°04'47
	15059 Sep 24 22:50	0∘ ⊽		min. Earth dist.	15060 Jul 22 22:02	11° Ω 57'21	0.67911 AU
morning set	15059 Oct 07 05:39	21° ≏ 14'38		morning rise	15060 Jul 27 06:07	6° Ω 55'48	
max. Earth dist.	15059 Oct 11 00:59	28° ჲ 29'03	1.34933 AU	direct	15060 Aug 01 23:22	4° Ω 25'39	
	15059 Oct 11 19:36	0° M ₊		desc. node	15060 Aug 05 04:14	5° Ω 05'09	
asc. node	15059 Oct 13 14:33	3°M32'39		morning max el	15060 Aug 13 18:09	11° Ω 29'16	24°51'31
	15050 0-4 16 10:20	9° M .16'04	0925152		15060 Aug 28 14:03	0° m)	
superior conj minimum elong	15059 Oct 16 10:20 15059 Oct 16 08:56	9°116104 9°11608'51	0°25'53 0°26'10	morning set	15060 Sep 16 15:50 15060 Sep 18 12:16	0° 죠 3° 요 14'06	
evening rise	15059 Oct 24 00:03	25°M ₀ 03'11	0 20 10	max. Earth dist.	15060 Sep 18 12:10 15060 Sep 22 01:33	9° £ 37'24	1.37110 AU
evening rise	15059 Oct 26 09:39	0° ⊼		max. Earth dist.	13000 БСР 22 01.33) — 3/24	1.5/110710
evening max el	15059 Nov 11 19:05	26° ₹ 05'08	20°44'05	superior conj	15060 Sep 28 20:48	22° £ 31'11	-0°05'29
desc. node	15059 Nov 15 03:21	28° ₹ '55'37		minimum elong	15060 Sep 28 21:09	22° ჲ 32'50	
	15059 Nov 16 20:18	0°₹		behind sun begin	15060 Sep 28 14:52	22° ჲ 02'07	
retrograde	15059 Nov 23 03:18	1° る 43'28		behind sun end	15060 Sep 29 03:25	23° ჲ 03'37	
evening set	15059 Nov 25 13:30	1° る 29'09		asc. node	15060 Sep 29 11:10	23° ≏ 41'39	
	15059 Nov 29 22:39	30°₽ ∡ 7			15060 Oct 02 15:16	0° M ₊	
inferior conj	15059 Dec 04 10:21	27° ∡ ³35'42		evening rise	15060 Oct 07 04:28	9° M 10'55	
minimum elong	15059 Dec 04 01:14	27° х 48'49		avanie 1	15060 Oct 18 12:46	0° ∡ 7 7°. 7 10/50	10021110
min. Earth dist. morning rise	15059 Dec 05 12:11 15059 Dec 12 12:58	26° ₹ 58'34 23° ₹ 40'27	0.54547 AU	evening max el desc. node	15060 Oct 24 04:45 15060 Nov 01 00:37	7° ∡ 10'59 11° ∡ 151'47	19°31'19
direct	15059 Dec 12 12:38 15059 Dec 16 21:34	23° x '40'27 22° x '59'44		retrograde	15060 Nov 01 00:37 15060 Nov 02 21:41	11° x '31'47	
	10000 DCC 10 21.34	44 A J744		renograde	12000 1101 02 21.41	12 🗡 0221	
morning max el	15059 Dec 30 03:35	29° ∡ ¹26'57	23°20'31	evening set	15060 Nov 04 19:30	11° × 751'54	

evening set

desc. node

inferior conj

15061 Oct 17 07:13

15061 Oct 18 21:58

15061 Oct 25 08:34

 23° ML 03'03

22°MJ33'46

18°MJ38'17 -2°03'34

evening set

desc. node

inferior conj

15062 Sep 29 19:52

15062 Oct 05 19:24

15062 Oct 07 03:13

5°ML03'17

1°M24'59

0°M17'02 -0°25'11

minimum elong	15062 Oct 07 02:20	0° ™ 18'58	0°24'25	evening set	15063 Sep 13 02:21	17° ≏ 44'52	
	15062 Oct 07 11:02	30°R Ω		inferior conj	15063 Sep 19 17:11	12° ≏ 38'54	0°54'16
min. Earth dist.	15062 Oct 10 09:38	27° ≏ 27'49	0.59279 AU	minimum elong	15063 Sep 19 18:44	12° ≏ 35'03	0°53'49
morning rise	15062 Oct 14 05:27	24° ≏ 42'58		min. Earth dist.	15063 Sep 22 17:23	9° ॒ 39'38	0.61570 AU
direct	15062 Oct 20 16:56	22° ₽ 47'44		desc. node	15063 Sep 22 16:52	9° ≙ 40'54	
	15062 Nov 03 10:42	0° M		morning rise	15063 Sep 26 08:24	6° ჲ 38′22	
morning max el	15062 Nov 03 23:52	0°M31'46	27°39'00	direct	15063 Oct 03 00:25	4° ≙ 20'47	
	15062 Nov 25 02:49	0° ∡ ¹		morning max el	15063 Oct 17 04:45	12° ≏ 17'20	27°59'03
asc. node	15062 Nov 30 05:45	9° ∡ ³30′23			15063 Oct 31 06:28	0° M	
morning set	15062 Dec 05 16:49	20° ∡ ³36′54		asc. node	15063 Nov 17 02:36	29°M14'56	
	15062 Dec 10 00:33	ರ∘ರ			15063 Nov 17 11:38	0° ∡ 7	
max. Earth dist.	15062 Dec 12 02:35	4° る 38'28	1.31078 AU	morning set	15063 Nov 19 18:10	4° ∡ °37′28	
				max. Earth dist.	15063 Nov 25 08:15	16° ∡ ³33'44	1.31454 AU
superior conj	15062 Dec 12 16:18	5° る 55'12	1°32'30				
minimum elong	15062 Dec 12 14:58	5° る 47'40	1°33'22	superior conj	15063 Nov 27 02:25	20° ∡ ¹26′13	1°21'28
evening rise	15062 Dec 19 09:30	20° る 46'29		minimum elong	15063 Nov 27 00:21	20° ∡ 14'51	1°22'10
	15062 Dec 23 19:47	0° ≈			15063 Dec 01 09:53	0°ಕ	
desc. node	15063 Jan 01 17:33	16° ≈ 18′28		evening rise	15063 Dec 03 19:27	5° る 14'47	
	15063 Jan 11 04:09	0° ∀			15063 Dec 16 15:47	0° ≈	
evening max el	15063 Jan 17 06:55		26°21'26	desc. node	15063 Dec 19 14:27	4° ≈ 37'10	
retrograde	15063 Jan 31 06:08	13° ¥ 50′26		evening max el	15063 Dec 29 21:49	17° ≈ 19′05	24°56'46
evening set	15063 Feb 06 14:20	12°) 13'44		retrograde	15064 Jan 12 16:30	24° ≈ 13′00	
min. Earth dist.	15063 Feb 10 20:20		0.58259 AU	evening set	15064 Jan 18 05:26	23° ≈ 04'34	
inferior conj	15063 Feb 13 23:02	7° ¥ 19'05		min. Earth dist.	15064 Jan 23 09:49	20° ≈ 19'42	0.56336 AU
minimum elong	15063 Feb 14 07:19	7°) €03'47	3°42'53	inferior conj	15064 Jan 25 22:59	18° ≈ 41'45	
morning rise	15063 Feb 22 03:26	2° ¥ 50'35		minimum elong	15064 Jan 26 07:52	18° ≈ 27'30	5°03'32
direct	15063 Feb 24 03:16	2°) 37′09		morning rise	15064 Feb 03 12:40	14° ≈ 34'55	
asc. node	15063 Feb 26 03:36	2°) √51'29		direct	15064 Feb 05 17:23	14°≈21'24	
morning max el	15063 Mar 04 08:47	6°) (40′39	18°29'48	asc. node	15064 Feb 13 01:01	17°≈03'19	
	15063 Mar 19 03:47	0°Υ 2° 20 ° (12°		morning max el	15064 Feb 15 07:53	19° ≈ 01'08	19°23'28
morning set	15063 Mar 20 06:13	2° Y 06'28			15064 Feb 23 12:17	0°) {	
	15062 Mar. 20, 00:27	19° Ƴ 22'05	0011150	morning set	15064 Mar 03 08:02	16°) 32'49 0° Υ	
superior conj	15063 Mar 29 08:27	19° Y 25'54	0°11'58		15064 Mar 10 01:48	0-1	
minimum elong	15063 Mar 29 09:17 15063 Mar 29 04:21	19° γ 23'34 19° γ 03'06	0°11'36	aumariar aani	15064 Mar. 11, 11,27	2° Y '45'22	0°42'11
behind sun begin behind sun end	15063 Mar 29 14:13	19 1 03 00 19° Y 48'40		superior conj minimum elong	15064 Mar 11 11:37 15064 Mar 11 13:54	2°Y56'33	0°4211 0°41'52
desc. node	15063 Mar 30 19:21	22° Υ '02'12		desc. node	15064 Mar 16 15:54	12° Υ 35'13	0 41 32
desc. node	15063 Apr 04 06:17	0°8		max. Earth dist.	15064 Mar 18 01:46	12 γ 33 13 15° Υ 10'35	1.38156 AU
max. Earth dist.	15063 Apr 05 19:26		1.40441 AU	evening rise	15064 Mar 21 18:41	21° Υ 47'07	1.36130 AC
evening rise	15063 Apr 10 01:15	9° 8 52'06	1.40441 710	evening rise	15064 Mar 26 14:31	0°8	
evening rise	15063 Apr 22 21:08	0°Ⅱ			15064 Apr 15 19:15	0°II	
evening max el	15063 May 14 13:50	28° Ⅱ 09'13	23°36'59	evening max el	15064 Apr 26 03:17	12° Ⅱ 02'54	24°56'23
evening max er	15063 May 16 12:51	0°95	25 50 57	retrograde	15064 May 08 00:20	18° I I58'09	2. 3023
retrograde	15063 May 25 09:01	4° 5 29'45		asc. node	15064 May 10 21:42	18° Ⅲ 22'39	
asc. node	15063 May 25 00:30	4° 5 29'12		evening set	15064 May 13 17:58	16° Ⅲ 33'25	
evening set	15063 May 30 15:09	2° © 15'59		min. Earth dist.	15064 May 18 04:07	11° Ⅱ 34'47	0.68283 AU
8	15063 Jun 01 19:55	30°R Ⅱ		inferior conj	15064 May 19 08:00	10° Ⅱ 02'45	2°18'45
min. Earth dist.	15063 Jun 04 09:27	26° Ⅱ 40'38	0.68912 AU	minimum elong	15064 May 19 05:52	10° Ⅱ 09'49	2°17'19
inferior conj	15063 Jun 05 00:29	25° Ⅱ 49'05	2°46'15	morning rise	15064 May 24 18:05	4° Ⅱ 06'45	
minimum elong	15063 Jun 04 22:45	25° Ⅲ 55'02	2°44'59	direct	15064 May 28 10:57	2° Ⅱ 48′05	
morning rise	15063 Jun 10 06:20	19° Ⅱ 43'51		morning max el	15064 Jun 04 15:28	6° Ⅱ 45'29	19°29'13
direct	15063 Jun 14 10:58	18° Ⅲ 05′00		desc. node	15064 Jun 12 17:07	16° Ⅲ 38′22	
morning max el	15063 Jun 22 13:15	22° Ⅱ 40'56	20°35'31	greatest brilliancy	15064 Jun 17 06:41	23° Ⅱ 10′59	-0.7m
desc. node	15063 Jun 26 20:02	27° Ⅲ 28′20			15064 Jun 21 20:28	0 \circ \mathfrak{S}	
	15063 Jun 28 20:10	0 \circ \odot		morning set	15064 Jun 29 22:02	12° © 17'11	
	15063 Jul 19 12:57	$0^{\circ}\Omega$			15064 Jul 11 07:56	0 $^{\circ}$ Ω	
morning set	15063 Jul 21 19:00	3° £ 28′05		max. Earth dist.	15064 Jul 12 01:51	1° Ω 10′29	1.45160 AU
max. Earth dist.	15063 Jul 30 10:59	17° Ω 07'21	1.43765 AU				
				superior conj	15064 Jul 16 03:13	7° Ω 36′02	
superior conj	15063 Aug 05 22:56	27° Ω 44'23		minimum elong	15064 Jul 16 08:01	7° Ω 55'10	2°10'10
minimum elong	15063 Aug 06 06:33	28° Ω 16′04	1°48'21		15064 Jul 29 20:46	0° ™	
	15063 Aug 07 07:27	0° ™		evening rise	15064 Jul 30 06:27	0° ™ 40'16	
evening rise	15063 Aug 18 07:41	18° m 55'56		asc. node	15064 Aug 06 21:28	13° m 17'57	
asc. node	15063 Aug 21 00:51	23° m/41'08		evening max el	15064 Aug 17 15:59	28° m/20'32	18°10'53
	15063 Aug 24 16:36	0∘ ত			15064 Aug 19 13:57	0∘ ত	
evening max el	15063 Sep 04 01:19	14° ≙ 51'10	18°01'50	retrograde	15064 Aug 24 00:37	1° ≏ 41'51	
retrograde	15063 Sep 10 14:37	18° ≏ 14'43		evening set	15064 Aug 26 20:52	0° ჲ 58'36	

	15064 Aug 29 10:22	2.00 p. m/s		asa nada	15065 Jul 24 19:10	20 m 2 4110	
inforior coni	15064 Aug 28 10:23 15064 Sep 01 22:26	30°RM) 25°M)35'38	1°53'03	asc. node	15065 Jul 24 18:10 15065 Aug 01 04:55	2° Mp 34'10 12° Mp 03'21	18°37'38
inferior conj minimum elong	15064 Sep 01 22.26 15064 Sep 02 00:48	25° m) 28'59	1°52'10	evening max el retrograde	15065 Aug 07 04.33	12 m/03 21 15° m/35'25	16 3/36
min. Earth dist.	15064 Sep 02 00.48 15064 Sep 04 11:13	23 m/28 39 22°m/45'58	0.63763 AU	evening set	15065 Aug 10 23:07	13 m/3525 14° m/36'26	
	15064 Sep 08 02:54	19° m) 18'43	0.03703 AU	•	•	8° m 58'31	2°33'15
morning rise desc. node	15064 Sep 08 02.34 15064 Sep 08 14:21	19 my 1843 18° my 57'20		inferior conj minimum elong	15065 Aug 16 15:01	8° Mp 51'52	
	1	•		U	15065 Aug 16 17:11		
direct	15064 Sep 14 17:41	16° Mp 46'04	27041110	min. Earth dist.	15065 Aug 18 14:05	6° Mp 34'27	0.65690 AU
morning max el	15064 Sep 28 14:17	24° Mp 46'05	27°41'19	morning rise	15065 Aug 22 10:09	2° Mp 34'03	
	15064 Oct 03 08:39	ია ო 0∘ ত		desc. node	15065 Aug 26 11:52	0° m 15'15	
	15064 Oct 23 17:09	0°M		t' .	15065 Aug 27 16:19	30°R Ω	
morning set	15064 Nov 02 11:49	18°M14'36		direct	15065 Aug 28 19:09	29° Ω 55'25	
asc. node	15064 Nov 02 23:22	19°M12'28	1 22201 177		15065 Aug 29 22:33	0° Mp	26051155
max. Earth dist.	15064 Nov 07 07:44	28°M11'10	1.32381 AU	morning max el	15065 Sep 11 01:32	7° Mp 45'27	26°51'55
	15064 Nov 08 04:14	0° ∡ ¹			15065 Sep 28 08:54	0∘ ⊽	
				_	15065 Oct 16 01:53	0° M ₊	
superior conj	15064 Nov 10 09:12	4° ∡ ¹44'55 _	1°04'29	morning set	15065 Oct 16 18:46	1°M20'22	
minimum elong	15064 Nov 10 06:53	4° ∡ ³32'19	1°04'58	asc. node	15065 Oct 20 20:04	9° M ₊17'31	
evening rise	15064 Nov 17 06:26	19° ∡ ⁴44'17		max. Earth dist.	15065 Oct 20 21:47	9°M26'09	1.33857 AU
	15064 Nov 22 04:48	0°ಕ					
desc. node	15064 Dec 05 11:28	21° る 55'46		superior conj	15065 Oct 25 10:22	18°M44'30	0°41'37
evening max el	15064 Dec 10 07:28	27° る 20'38	23°15'23	minimum elong	15065 Oct 25 08:23	18°M34'08	0°41'56
	15064 Dec 13 09:21	0° ≈			15065 Oct 30 17:33	0° ∡ ¹	
retrograde	15064 Dec 23 14:10	3° ≈ 55'49		evening rise	15065 Nov 01 16:31	4° ₮ 09'21	
evening set	15064 Dec 27 21:52	3° ≈ 15'17			15065 Nov 15 18:12	8°0	
min. Earth dist.	15065 Jan 03 17:40	0° ≈ 03'16	0.54976 AU	evening max el	15065 Nov 21 20:47	7° る 23'48	21°35'15
	15065 Jan 03 19:56	30°Ŗる		desc. node	15065 Nov 22 08:35	7° る 52'15	
inferior conj	15065 Jan 05 03:10	29° る 14'51	-5°55'24	retrograde	15065 Dec 04 01:41	13° පි 26'11	
minimum elong	15065 Jan 05 06:46	29° る 09'39	5°54'15	evening set	15065 Dec 07 01:42	13° る 05'43	
morning rise	15065 Jan 13 17:09	25° る 23'52		inferior conj	15065 Dec 15 19:17	9° ට 14'14	-5°49'39
direct	15065 Jan 16 12:30	25° පි 05'06		minimum elong	15065 Dec 15 13:42	9° ප 22'03	5°48'04
	15065 Jan 27 05:13	0° ≈		min. Earth dist.	15065 Dec 15 23:26	9° ට 08'25	0.54437 AU
morning max el	15065 Jan 27 17:10	0° ≈ 28'06	20°40'15	morning rise	15065 Dec 24 02:20	5° ರ 25'42	
asc. node	15065 Jan 29 22:24	2° ≈ 48'11		direct	15065 Dec 27 20:54	4° ට 54'39	
	15065 Feb 15 01:37	0° \		morning max el	15066 Jan 09 11:56	11° ට 00'42	22°18'04
morning set	15065 Feb 15 15:32	1°) 11'41		asc. node	15066 Jan 16 19:43	19°る47'50	22 10 0 .
morning sec	13003100 13 13.32	1 /(11 11		use. Houe	15066 Jan 23 01:51	0°≈	
superior conj	15065 Feb 23 03:06	16°) 41′04	1°05'53	morning set	15066 Jan 31 02:16	15°≈55'49	
minimum elong	15065 Feb 23 05:43	16°) ₹54'22	1°05'51	morning sec	15066 Feb 06 16:17	0° ∺	
max. Earth dist.	15065 Feb 28 09:31	27° H 09'10	1.35965 AU		13000100 00 10.17	0 /	
max. Earth dist.	15065 Mar 01 21:12	27 γ (09 10	1.55905 AU	superior conj	15066 Feb 07 03:23	0° ¥ 58'54	1°22'56
desc. node	15065 Mar 03 12:27	3° Υ '04'19		minimum elong	15066 Feb 07 05:33	1° H 10'21	1°23'16
		4° Υ 27'41		max. Earth dist.		8°\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;	1.34067 AU
evening rise	15065 Mar 04 06:28 15065 Mar 19 12:31	0°8			15066 Feb 10 23:25	8 ₹3830 17°¥44'21	1.54007 AU
avanina may al	15065 Apr 08 16:47	25° 8 53'37	26906152	evening rise	15066 Feb 15 09:03	23°\(\frac{17}{25}\)'22	
evening max el	•	23 O 33 37 0° Ⅱ	20 00 33	desc. node	15066 Feb 18 09:01 15066 Feb 22 00:21	23 π 23 22 0° Υ	
. 1	15065 Apr 13 11:24						
retrograde	15065 Apr 21 10:58	3° I 12'00			15066 Mar 13 18:57	0°8	27001100
evening set	15065 Apr 27 15:11	0° Ⅱ 40′53		evening max el	15066 Mar 22 06:37	9° 8 34'22	27°01'00
asc. node	15065 Apr 27 19:01	0° Ⅱ 32'51		retrograde	15066 Apr 04 15:49	17° 8 03'20	
i matri	15065 Apr 28 09:47	30°R 8	0.67107.411	evening set	15066 Apr 11 04:54	14° 8 31'36	
min. Earth dist.	15065 May 01 18:48	26° 8 17'44	0.67197 AU	asc. node	15066 Apr 14 16:24	11° 8 12'32	0.65607.411
inferior conj	15065 May 03 11:29	24° 8 11'21	1°40'10	min. Earth dist.	15066 Apr 15 03:27	10° 8 41'56	0.65697 AU
minimum elong	15065 May 03 09:26	24° 8 17'43	1°38'46	inferior conj	15066 Apr 17 08:37	8° 8 09'34	0°49'37
morning rise	15065 May 09 04:29	18° 8 25'46		minimum elong	15066 Apr 17 07:21	8° 8 13'13	0°48'37
direct	15065 May 12 10:27	17° 8 25'49		morning rise	15066 Apr 23 11:17	2° 8 36'12	
morning max el	15065 May 19 00:44	20° 8 57'25	18°38'33	direct	15066 Apr 26 07:27	1° 8 52'27	
	15065 May 26 07:42	0°II		morning max el	15066 May 02 15:21	5° 8 10'39	18°04'39
desc. node	15065 May 30 14:05	6° Ⅱ 17'54		desc. node	15066 May 17 10:57	26° 8 18'56	
morning set	15065 Jun 09 13:02	21° Ⅱ 44′16			15066 May 19 17:32	$\Pi^{\circ}0$	
	15065 Jun 14 19:52	0 \circ		morning set	15066 May 21 05:58	2° Ⅱ 27'46	
max. Earth dist.	15065 Jun 24 20:28	15° © 38'16	1.45866 AU			_	
				superior conj	15066 Jun 05 01:03	26° Ⅱ 06'49	-1°56'06
superior conj	15065 Jun 25 14:51	16°549'59		minimum elong	15066 Jun 04 16:43	25° Ⅱ 34'05	
minimum elong	15065 Jun 25 12:13	16°539'44	2°13'43	max. Earth dist.	15066 Jun 07 16:43	0°916'15	1.45827 AU
	15065 Jul 04 00:27	$0^{\circ}\Omega$			15066 Jun 07 12:34	0 \circ \odot	
evening rise	15065 Jul 11 04:38	11° Ω 21'56		evening rise	15066 Jun 21 03:51	21° 5 09'03	
greatest brilliancy	15065 Jul 18 09:40	22° Ω 49'17	-0.9m		15066 Jun 26 21:54	$0^{\circ}\Omega$	
	15065 Jul 23 00:47	0° m		greatest brilliancy	15066 Jul 03 16:45	10° Ω 16'42	-0.7m

asc. node	15066 Jul 11 14:57	21° Ω 22'44		minimum elong	15067 May 15 17:54	5° ∏ 34'32	1°24'17
evening max el	15066 Jul 15 13:42	25°Ω53'35	19°21'08	max. Earth dist.	15067 May 21 12:14	14° ∏ 48'31	1.45053 AU
retrograde	15066 Jul 22 15:05	29° Ω 49'01	17 21 00	max. Earth dist.	15067 May 31 06:33	0°95	1.43033 710
evening set	15066 Jul 26 06:02	28° Ω 32'52		evening rise	15067 May 31 15:01	0°932'25	
inferior conj	15066 Jul 31 15:38	22° Ω 41'23	2°57'40	evening rise	15067 Jun 20 15:37	0°Ω	
minimum elong	15066 Jul 31 17:04	22°Ω36'43	2°56'49	asc. node	15067 Jun 28 11:49	9° Ω 33'09	
min. Earth dist.	15066 Aug 02 00:25	20° Ω 54'04	0.67232 AU	evening max el	15067 Jun 28 16:42	9° Ω 45'27	20°19'51
morning rise	15066 Aug 06 03:31	16° Ω 15'44	0.07232710	retrograde	15067 Jul 06 13:59	14°Ω15'43	20 1731
direct	15066 Aug 12 03:16	13° Ω 40'12		evening set	15067 Jul 10 15:11	12° Ω 41'59	
desc. node	15066 Aug 13 09:20	13° Ω 46'14		inferior conj	15067 Jul 15 21:31	6°Ω38'10	3°08'49
morning max el	15066 Aug 24 12:35	21°Ω04'26	25°39'39	minimum elong	15067 Jul 15 21:59	6° Ω 36'34	3°07'58
morning max cr	15066 Sep 01 06:11	0° m)	23 37 37	min. Earth dist.	15067 Jul 16 16:17	5°Ω33'57	0.68319 AU
	15066 Sep 21 13:26	0∘ ত الأ		morning rise	15067 Jul 21 04:28	0° Ω 15'25	0.00317710
morning set	15066 Sep 29 11:27	ა _ 13° ჲ 46'50		morning rise	15067 Jul 21 11:34	30°R95	
max. Earth dist.	15066 Oct 03 02:19	20° ₽ 30'14	1.35826 AU	direct	15067 Jul 26 16:50	27°950'27	
asc. node	15066 Oct 07 16:44	29° ₽ 26'21	1.55020710	desc. node	15067 Jul 31 06:44	29°9511'06	
asc. node	15066 Oct 07 23:29	0°M		desc. Hode	15067 Aug 01 14:47	0°Ω	
	13000 000 07 23.27	o liu		morning max el	15067 Aug 06 23:13	4° Ω 34'46	24°14'10
superior conj	15066 Oct 09 03:10	2°M18'34	0°13'11	morning max cr	15067 Aug 06 23:13	0°m)	24 14 10
minimum elong	15066 Oct 09 02:23	2°M14'35	0°13'18	morning set	15067 Sep 11 09:40	25° m) 24'07	
behind sun begin	15066 Oct 08 22:56	1°M57'15	0 13 20	morning set	15067 Sep 11 05:40 15067 Sep 14 00:49	23 m/2∓07 0° <u>ი</u>	
behind sun end	15066 Oct 09 05:50	2°M31'56		max. Earth dist.	15067 Sep 14 00:45		1.38122 AU
evening rise	15066 Oct 16 23:42	18°M25'24		max. Lartii dist.	13007 Sep 13 01.23	1 =4722	1.36122 AO
evening rise	15066 Oct 22 19:19	0° √		superior conj	15067 Sep 22 08:13	15° ≏ 18'43	-0°19'59
evening max el	15066 Nov 03 22:09	18°×7'02'07	20°10'22	minimum elong	15067 Sep 22 09:35	15° ≏ 25'15	
desc. node	15066 Nov 09 05:48	22° x ² 01'23	_, _,	asc. node	15067 Sep 24 13:20	19° ₽ 35'07	
retrograde	15066 Nov 14 13:24	23°×719'51		use. Houe	15067 Sep 29 20:03	0° M	
evening set	15066 Nov 16 16:37	23°×7'08'04		evening rise	15067 Oct 01 01:31	2°M26'08	
inferior conj	15066 Nov 25 13:09	19° × 711'04	-4°45'02	evening max el	15067 Oct 17 13:49	29°M29'41	19°07'00
minimum elong	15066 Nov 25 03:05	19° ∡ °26'04	4°41'24	Z .	15067 Oct 18 02:15	0° ∡ ¹	
min. Earth dist.	15066 Nov 27 06:00	18° ∡ 10'13	0.54839 AU	retrograde	15067 Oct 26 14:32	4° ∡ °02'01	
morning rise	15066 Dec 03 12:43	15° х 06′14		desc. node	15067 Oct 27 03:05	4° ∡ °01'09	
direct	15066 Dec 08 07:34	14° ∡ 16'36		evening set	15067 Oct 28 11:29	3° ∡ 751′07	
morning max el	15066 Dec 21 21:39	20° ∡ ¹58'26	24°07'25	Č	15067 Nov 05 08:56	30°RM	
S	15066 Dec 29 14:37	ರ°0		inferior conj	15067 Nov 05 22:05	29°M37'39	-3°05'00
asc. node	15067 Jan 03 16:57	7°る45'02		minimum elong	15067 Nov 05 14:24	29°M50'45	3°01'21
	15067 Jan 15 06:49	0° ≈		min. Earth dist.	15067 Nov 08 16:36	27° M 44'47	0.56102 AU
morning set	15067 Jan 15 14:12	0° ≈ 39'32		morning rise	15067 Nov 13 14:42	25°M00'00	
				direct	15067 Nov 19 05:33	23°M46'52	
superior conj	15067 Jan 22 09:36	15° ≈ 30'51	1°33'30		15067 Dec 02 07:02	0° ∡ ¹	
minimum elong	15067 Jan 22 10:53	15° ≈ 37'51	1°34'10	morning max el	15067 Dec 03 07:57	0° ∡ ¹57'44	25°50'51
max. Earth dist.	15067 Jan 24 21:14	20° ≈ 53′27	1.32588 AU	asc. node	15067 Dec 21 14:05	26° ₹ ¹25'32	
	15067 Jan 29 05:38	0° ∀			15067 Dec 23 12:36	8°0	
evening rise	15067 Jan 29 23:02	1° ¥ 28′15		morning set	15067 Dec 31 01:35	15° る 18'04	
desc. node	15067 Feb 05 05:36	13°) 33′30					
	15067 Feb 14 22:49	0° Y		superior conj	15068 Jan 06 19:27	0° ≈ 10′26	1°37'51
evening max el	15067 Mar 04 19:28	22° Y 53'24	27°31'13	minimum elong	15068 Jan 06 19:41	0° ≈ 11'42	1°38'44
	15067 Mar 15 18:12	$0^{\circ}S$			15068 Jan 06 17:34	0° ≈	
retrograde	15067 Mar 18 13:45	0° 8 22'42		max. Earth dist.	15068 Jan 08 01:32	2° ≈ 57'13	1.31590 AU
	15067 Mar 21 06:49	30° Ŗ ♈		evening rise	15068 Jan 13 21:33	15° ≈ 32'22	
evening set	15067 Mar 25 08:47	27° Y ′56'54			15068 Jan 21 05:36	0° ∀	
min. Earth dist.	15067 Mar 29 03:55	24° Y 37′29	0.63845 AU	desc. node	15068 Jan 23 02:15	3°) €23'03	
inferior conj	15067 Mar 31 20:38	21° Y ′50′00			15068 Feb 09 22:51	0°Υ	
minimum elong	15067 Mar 31 21:03	21° Y 48'53	0°13'50	evening max el	15068 Feb 15 05:03	5° Y 37'36	27°31'08
transit middle	15067 Mar 31 21:03	21° Y 48'53	0°13'50	retrograde	15068 Feb 29 03:47	13° Υ 01'03	
transit begin	15067 Mar 31 19:29	21° Y 52'58		evening set	15068 Mar 07 00:10	10° Y 48′26	0.61724.444
transit end	15067 Mar 31 22:38	21° Y 44'48		min. Earth dist.	15068 Mar 10 18:35	7° Υ 53'31	0.61734 AU
asc. node	15067 Apr 01 13:50	21° Y 05'37		inferior conj	15068 Mar 13 20:17	5°Υ04'33	
morning rise	15067 Apr 07 11:38	16° ℃ 31'19		minimum elong	15068 Mar 13 23:27	4°Υ57'16	1°28'21
direct	15067 Apr 09 23:15	16° Y '00'34 19° Y '17'07	170/7/57	asc. node	15068 Mar 18 11:15	1° Y 19'01 0° Y 03'33	
morning max el	15067 Apr 16 08:46	0° ႘	17°47'57	morning rise	15068 Mar 21 01:47	0°7′03′33 30° ₹	
morning set	15067 Apr 24 09:24 15067 May 03 01:57	14° 8 28'35		direct	15068 Mar 21 06:28 15068 Mar 23 06:26	30°₹ ⊀ 29° ¥ 42'24	
desc. node	15067 May 03 01:57 15067 May 04 07:41	14° 8 28'33		uncci	15068 Mar 25 05:45	29° π 42′24 0° Υ	
desc. Houc	15067 May 04 07.41 15067 May 12 08:03	16 O 34 44 0° Ⅱ		morning max el	15068 Mar 30 01:56	3° Υ 08'27	17°49'03
	1500/ May 12 00.05	V Д		morning set	15068 Apr 14 19:57	27° Υ 31'03	11 77 03
superior conj	15067 May 16 01:53	6° Ⅱ 06'51	-1°24'23	morning set	15068 Apr 16 05:21	0° 8	
2-F 2-101 4011)	10.01.00						

desc. node	15068 Apr 20 04:21	7° 8 00'43		minimum elong behind sun begin	15069 Apr 08 00:04 15069 Apr 07 17:31	29° Υ 16'17 28° Υ 46'55	0°08'23
superior conj	15068 Apr 26 01:48	17° 8 11'38	-0°46'04	behind sun end	15069 Apr 08 06:38	29° Y '45'35	
minimum elong	15068 Apr 25 21:30	16° 8 53'23			15069 Apr 08 09:51	0°8	
max. Earth dist.	15068 May 03 04:20	28° 8 58'23	1.43625 AU	max. Earth dist.	15069 Apr 15 15:22	12° 8 31'18	1.41692 AU
	15068 May 03 19:34	0°Щ		evening rise	15069 Apr 20 14:59	20° 8 43'47	
evening rise	15068 May 10 06:36	10° Ⅱ 14'15		<i>5</i>	15069 Apr 26 11:50	0°II	
<i>8</i> 11	15068 May 23 09:42	0ಂತಾ			15069 May 17 15:57	0ಂತಾ	
evening max el	15068 Jun 10 13:43	23° © 36'56	21°31'00	evening max el	15069 May 24 06:07	7° © 29'01	22°50'13
asc. node	15068 Jun 14 08:45	26°\$52'50		asc. node	15069 Jun 01 05:48	13° 5 06'18	
retrograde	15068 Jun 19 12:39	28°950'04		retrograde	15069 Jun 03 09:29	13° © 26'47	
evening set	15068 Jun 24 00:41	26°959'24		evening set	15069 Jun 08 08:50	11°9520'50	
inferior conj	15068 Jun 29 06:23	20°5544'42	3°08'24	inferior conj	15069 Jun 13 16:14	4°957'27	2°57'22
minimum elong	15068 Jun 29 05:52	20°5946'28	3°07'26	minimum elong	15069 Jun 13 14:53	5°902'09	2°56'12
min. Earth dist.	15068 Jun 29 11:42	20°926'07	0.68926 AU	min. Earth dist.	15069 Jun 13 08:36	5° © 24'01	0.69047 AU
morning rise	15068 Jul 04 10:52	14°927'25	0.000,20110	Time Darwi Gibt.	15069 Jun 17 13:55	30°RⅡ	0.000 17 110
direct	15068 Jul 09 10:53	12°9518'14		morning rise	15069 Jun 18 20:49	28° II 47'16	
desc. node	15068 Jul 17 04:04	16°504'38		direct	15069 Jun 23 08:23	26° I I56'56	
morning max el	15068 Jul 19 10:55	18° © 13'16	22°44'47	direct	15069 Jun 29 21:53	0°95	
morning max ci	15068 Jul 29 07:04	0°Ω	22 44 47	morning max el	15069 Jul 02 02:22	2° © 00'39	21°19'49
	15068 Aug 18 15:26	0° mp		desc. node	15069 Jul 02 02:22 15069 Jul 04 01:18	4°504'28	21 1949
morning got	•	6° Mp 02'37		desc. Hode	15069 Jul 23 03:13	0°Ω	
morning set max. Earth dist.	15068 Aug 22 09:15 15068 Aug 27 00:59	13° Mp 48'36	1 40500 ATT	marning sat		15° Ω 39'19	
max. Earm dist.	13008 Aug 27 00.39	13 11/48 30	1.40500 AU	morning set	15069 Aug 02 08:38	26°Ω39'47	1 42604 ATT
	150(0 0 02 21-22	270 m 25106	0055152	max. Earth dist.	15069 Aug 09 05:34		1.42684 AU
superior conj	15068 Sep 03 21:22	27° m 35'06 27° m 54'41			15069 Aug 11 06:17	0° m)	
minimum elong	15068 Sep 04 01:42		0-55/20		150(0 A 1(14.1(00 m	1920154
1-	15068 Sep 05 05:13	0∘ ত 40/03		superior conj	15069 Aug 16 14:16	8° m 58'30	
asc. node	15068 Sep 10 09:53	9° Ω 40'03		minimum elong	15069 Aug 16 21:19		1°30'29
evening rise	15068 Sep 13 18:48	16° Ω 03'15		evening rise	15069 Aug 27 23:32	29° m, 06'30	
	15068 Sep 21 08:59	0°M,	10005141	asc. node	15069 Aug 28 06:27	29° m/37'42	
evening max el	15068 Sep 29 17:12	11°M43'44	18°25'41		15069 Aug 28 11:23	0° ⊽	10005103
retrograde	15068 Oct 07 10:42	15°M39'00		evening max el	15069 Sep 13 04:10	24° £ 35'26	18°05'03
evening set	15068 Oct 09 10:41	15°M23'59		retrograde	15069 Sep 20 00:44	28° Ω 06'27	
desc. node	15068 Oct 13 00:28	13°M50'30	1010150	evening set	15069 Sep 22 07:46	27° Ω 43'06	0011100
inferior conj	15068 Oct 17 04:24	10°M49'53		inferior conj	15069 Sep 29 07:48	22° △ 48'31	0°11'00
minimum elong	15068 Oct 17 01:18	10°M56'05	1°18'08	minimum elong	15069 Sep 29 08:10	22° ₽ 47'40	0°11'09
min. Earth dist.	15068 Oct 20 10:11	8° ™ 15'49	0.58005 AU	transit middle	15069 Sep 29 08:10	22° ≏ 47'40	0°11'09
morning rise	15068 Oct 24 12:25	5° ™ 34'42		transit begin	15069 Sep 29 05:46	22° ♀ 53'14	
direct	15068 Oct 30 18:00	3°M54'35		transit end	15069 Sep 29 10:35	22° △ 42'05	
morning max el	15068 Nov 14 01:06	11°M29'06	27°09'44	desc. node	15069 Sep 29 21:56	22° Ω 15'43	
	15068 Nov 28 11:11	0° ∡ 7		min. Earth dist.	15069 Oct 02 12:38	19° ≏ 52'08	0.60245 AU
asc. node	15068 Dec 07 11:06	15° ∡ 37′20		morning rise	15069 Oct 06 05:23	17° ≏ 01'50	
morning set	15068 Dec 14 10:34	29° ∡ ¹45'32		direct	15069 Oct 12 19:35	14° ≏ 56'01	
	15068 Dec 14 13:17	0°₹		morning max el	15069 Oct 27 02:06	22° Ω 47'10	27°52'17
					15069 Nov 02 12:19	0° ™	
superior conj	15068 Dec 21 06:52	14° ろ 50'53		_	15069 Nov 21 15:08	0° ∡ 7	
minimum elong	15068 Dec 21 06:03	14°る46'20		asc. node	15069 Nov 24 08:02	5° ∡ 12'04	
max. Earth dist.	15068 Dec 21 09:05	15°る03'20	1.31108 AU	morning set	15069 Nov 28 15:20	13° ₹ 57'35	1 211 50 177
evening rise	15068 Dec 28 02:05	29° る 49'36		max. Earth dist.	15069 Dec 04 16:25	27° ∡ ¹04'39	1.31170 AU
	15068 Dec 28 04:02	0° ≈					
desc. node	15069 Jan 08 22:58	22°≈45'43		superior conj	15069 Dec 05 18:01	29° ∡ 127'14	
	15069 Jan 13 09:45	0°) {		minimum elong	15069 Dec 05 16:20	29° ∡ 17'50	1°29'22
evening max el	15069 Jan 27 08:43	17°) (34'33	26°56'41		15069 Dec 05 23:54	0° ろ	
retrograde	15069 Feb 10 08:50	24°) (48'42		evening rise	15069 Dec 12 10:37	14° る 15'29	
evening set	15069 Feb 16 23:48	22°) 56'53			15069 Dec 20 04:39	0° ≈	
min. Earth dist.	15069 Feb 20 22:51		0.59505 AU	desc. node	15069 Dec 26 19:48	11° ≈ 31'37	
inferior conj	15069 Feb 24 03:54	17°) 42'46		evening max el	15070 Jan 09 04:33		25°48'26
minimum elong	15069 Feb 24 10:27	17°) €29'37	2°52'37		15070 Jan 10 16:11	0°) {	
morning rise	15069 Mar 04 00:32	13°) €02'11		retrograde	15070 Jan 23 02:54	5°) (41'11	
asc. node	15069 Mar 05 08:42	12°) (48'47		evening set	15070 Jan 29 03:52	4°) €16'23	
direct	15069 Mar 06 00:45	12°) 47′05		min. Earth dist.	15070 Feb 02 17:31	1°) 37′51	0.57392 AU
morning max el	15069 Mar 13 15:19	16°) 33′53	18°09'04		15070 Feb 05 02:02	30°R≈	
	15069 Mar 23 01:47	0°Υ		inferior conj	15070 Feb 05 16:04	29° ≈ 35'27	
morning set	15069 Mar 29 05:59	11° Υ 17'02		minimum elong	15070 Feb 06 01:07	29°≈19'42	4°19'01
desc. node	15069 Apr 07 00:56	27° Y '32'20		morning rise	15070 Feb 14 01:19	25°≈16'21	
				direct	15070 Feb 16 01:58	25°≈03'31	
superior conj	15069 Apr 08 00:45	29° Ƴ 19'18	-0~08'06	asc. node	15070 Feb 20 06:08	26° ≈ 01'14	

morning max el	15070 Feb 24 20:51	29° ≈ 21'45	18°49'47	morning max el	15071 Feb 07 14:23	11° ≈ 20′33	19°53'12
	15070 Feb 25 12:00	0° ∀			15071 Feb 20 04:59	0° ∀	
morning set	15070 Mar 13 03:10	25°) 32′07		morning set	15071 Feb 25 07:49	10°) €05'36	
	15070 Mar 15 09:54	0 ° Υ					
				superior conj	15071 Mar 05 03:50	25° ¥ 57'31	0°53'03
superior conj	15070 Mar 21 18:54	12° Ƴ 18'36	0°25'33	minimum elong	15071 Mar 05 06:23	26°) (10′10	0°52'50
minimum elong	15070 Mar 21 20:31	12° Y ′26′14	0°25'10		15071 Mar 07 05:07	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	15070 Mar 24 21:29	18° Ƴ 05'59		max. Earth dist.	15071 Mar 11 05:09	7° Ƴ 38'17	1.37205 AU
max. Earth dist.	15070 Mar 28 22:29	25° Y ′22'28	1.39473 AU	desc. node	15071 Mar 11 18:02	8° Ƴ 38'13	
	15070 Mar 31 14:17	0°8		evening rise	15071 Mar 14 22:25	14° Y 26'03	
evening rise	15070 Apr 01 20:38	2° 8 09'24		evening rise	15071 Mar 24 02:53	0°8	
e vennig rise	15070 Apr 19 17:49	0°Ⅱ			15071 Apr 14 12:05	0°II	
evening max el	15070 May 06 20:11	21° ∏ 22'58	24°11'32	evening max el	15071 Apr 14 12:03	5° П 17'32	25027157
•	-		24 11 32	•			23 2131
retrograde	15070 May 18 03:06	27° Ⅱ 59'47		retrograde	15071 May 01 16:24	12° Ⅱ 23'24	
asc. node	15070 May 19 02:57	27° I 55'30		asc. node	15071 May 06 00:12	11° Ⅱ 05'55	
evening set	15070 May 23 14:02	25° Ⅱ 41'09		evening set	15071 May 07 14:41	9° ∏ 55'34	
min. Earth dist.	15070 May 28 04:44	20° Ⅱ 21'14	0.68695 AU	min. Earth dist.	15071 May 11 22:01	5° Ⅱ 12'08	0.67879 AU
inferior conj	15070 May 29 01:10	19° Ⅱ 12'06	2°35'56	inferior conj	15071 May 13 07:15	3° Ⅱ 24'57	
minimum elong	15070 May 28 23:13	19° Ⅱ 18'42	2°34'34	minimum elong	15071 May 13 05:05	3° Ⅱ 31′58	2°02'22
morning rise	15070 Jun 03 08:27	13° Ⅱ 10′23			15071 May 16 02:28	30° ₹ 8	
direct	15070 Jun 07 08:00	11° Ⅱ 40′06		morning rise	15071 May 18 19:55	27° 8 33'04	
morning max el	15070 Jun 15 00:10	15° Ⅲ 58′28	20°05'28	direct	15071 May 22 08:08	26° 8 22'24	
desc. node	15070 Jun 20 22:27	22° Ⅲ 52'42		morning max el	15071 May 29 05:27	0° Ⅱ 06'57	19°05'38
	15070 Jun 26 03:31	0°ಅ		•	15071 May 29 02:35	$\Pi^{\circ}0$	
morning set	15070 Jul 12 14:10	24° © 31'33		desc. node	15071 Jun 07 19:28	12° ∏ 16'44	
	15070 Jul 16 03:09	$0^{\circ}\Omega$		greatest brilliancy	15071 Jun 11 05:44	17° Ⅱ 19'57	-0.7m
max. Earth dist.	15070 Jul 22 16:55		1.44432 AU	greatest simule)	15071 Jun 19 13:15	0.ಪ	0.7111
max. Earth dist.	13070 Jul 22 10.33	10 862000	1.44432710	morning set	15071 Jun 21 19:54	3° © 30'33	
superior conj	15070 Jul 28 07:42	19° Ω 22'22	1050/11	max. Earth dist.	15071 Jul 05 10:04		1.45558 AU
				max. Earm dist.	130/1 Jul 03 10.04	24 503/12	1.43336 AU
minimum elong	15070 Jul 28 14:49	19° Ω 51'21	1°59′23		15051 1 1 00 02 22	200654110	2012122
	15070 Aug 03 17:57	0° m/y		superior conj	15071 Jul 08 03:32	28°554'19	
evening rise	15070 Aug 10 10:40	11° m 22'33		minimum elong	15071 Jul 08 05:30	29° 5 02'02	2°14'15
asc. node	15070 Aug 15 03:03	19° m 23'17			15071 Jul 08 20:12	$0^{\circ}\Omega$	
	15070 Aug 21 15:23	0∘ ⊽		evening rise	15071 Jul 22 23:14	22° Ω 40′36	
evening max el	15070 Aug 27 18:33	7° ≙ 53'38	18°03'34		15071 Jul 27 10:58	0° m y	
retrograde	15070 Sep 03 04:36	11° ≏ 14'16		asc. node	15071 Aug 01 23:42	8° Mp 52′04	
evening set	15070 Sep 05 19:58	10° ≏ 38'59		evening max el	15071 Aug 11 08:51	21° m 29'33	18°20'09
inferior conj	15070 Sep 12 04:45	5° ≏ 25'45	1°21'37	retrograde	15071 Aug 17 18:04	24° m 53'36	
minimum elong	15070 Sep 12 06:48	5° ≏ 20'20	1°20'55	evening set	15071 Aug 20 18:13	24° m 03'42	
min. Earth dist.	15070 Sep 15 00:37	2° ≏ 28'18	0.62528 AU	inferior conj	15071 Aug 26 15:13	18° m 33'59	2°12'12
desc. node	15070 Sep 16 19:26	0° Ω 46'12		minimum elong	15071 Aug 26 17:36	18° m) 27'02	2°11'16
	15070 Sep 17 17:07	30°R, m)		min. Earth dist.	15071 Aug 28 22:13	15° m 53'53	0.64629 AU
morning rise	15070 Sep 17 17:07	29° m 17'20		morning rise	15071 Sep 01 15:31	12° my 13'11	0.04027710
direct	15070 Sep 25 07:40	26° m 52'06		desc. node	15071 Sep 03 16:57	10° Mp 49'23	
direct	15070 Oct 03 16:31	0° ⊽		direct	*	9° My 37'06	
			27055147		15071 Sep 08 04:22		27022144
morning max el	15070 Oct 09 09:03	4° £ 51'12	2/°55'4/	morning max el	15071 Sep 21 19:29	17° mp 33'41	2/23/44
	15070 Oct 28 07:24	0°M			15071 Oct 02 05:33	0∘ ⊽	
asc. node	15070 Nov 11 04:51	25°M02'38			15071 Oct 21 04:31	0° M	
morning set	15070 Nov 12 13:44	27° ™ 48'43		morning set	15071 Oct 27 03:11	11°M12'56	
	15070 Nov 13 15:17	0° ∡ 7		asc. node	15071 Oct 29 01:37	15° ™ 03'42	
max. Earth dist.	15070 Nov 17 19:45	8° ∡ 52′24	1.31781 AU	max. Earth dist.	15071 Oct 31 15:36	20° ™ 20′25	1.32946 AU
superior conj	15070 Nov 20 03:00	13° ∡ ′53'54	1°15'00	superior conj	15071 Nov 04 07:41	28° ™ 05′00	0°55'31
minimum elong	15070 Nov 20 00:46	13° ∡ ⁴41'38	1°15'37	minimum elong	15071 Nov 04 05:25	27° M 52'52	0°55'54
evening rise	15070 Nov 26 21:14	28° ∡ ¹45'01		•	15071 Nov 05 05:07	0° ∡ ¹	
C	15070 Nov 27 11:10	აი		evening rise	15071 Nov 11 08:05	13° ∡ 13'17	
desc. node	15070 Dec 13 16:47	29° පි 27'14		<i>3</i> 21	15071 Nov 19 17:12	0°ెవ	
dese. Hode	15070 Dec 14 02:08	0°≈		desc. node	15071 Nov 30 13:51	16° ප 13'52	
evening max el	15070 Dec 14 02:08	0 ≈ 8°≈58'03	24°14'44	evening max el	15071 Nov 30 13:31 15071 Dec 03 02:44	18°る55'22	22021120
•			4 14 14	•			22 31 38
retrograde	15071 Jan 04 07:39	15°≈44'25		retrograde	15071 Dec 15 23:49	25°る18'12	
evening set	15071 Jan 09 09:04	14° ≈ 48'36	0.5565== :==	evening set	15071 Dec 19 17:56	24°₹47'19	0.54555
min. Earth dist.	15071 Jan 15 04:26	11° ≈ 54'30	0.55675 AU	min. Earth dist.	15071 Dec 27 10:36	21° る 18'25	0.54637 AU
inferior conj	15071 Jan 17 07:16	10° ≈ 37'07		inferior conj	15071 Dec 28 04:53	20° ප් 52'41	
minimum elong	15071 Jan 17 14:42	10° ≈ 25'45	5°30'26	minimum elong	15071 Dec 28 04:35	20° る 53'05	5°59'38
morning rise	15071 Jan 25 22:12	6° ≈ 37'41		morning rise	15072 Jan 05 16:27	17° る 05'10	
direct	15071 Jan 28 07:57	6° ≈ 22'36		direct	15072 Jan 08 21:14	16° පි 41'58	
asc. node	15071 Feb 07 03:32	10° ≈ 54'51		morning max el	15072 Jan 20 17:09	22° る 23'09	21°19'39

		_				_	
asc. node	15072 Jan 25 00:55	27° る 13'49		direct	15072 Dec 19 04:29	26° ∡ 16′04	
	15072 Jan 27 01:58	0° ≈			15072 Dec 29 04:11	0°₹	
morning set	15072 Feb 09 16:59	24° ≈ 48′06		morning max el	15073 Jan 01 07:12	2° る 38'12	23°04'08
	15072 Feb 12 04:21	0°) €		asc. node	15073 Jan 10 22:11	14° る 40'05	
					15073 Jan 19 13:30	0° ≈	
superior conj	15072 Feb 16 23:28	10°) 04'02	1°13'55	morning set	15073 Jan 24 04:29	9° ≈ 33'16	
minimum elong	15072 Feb 17 01:57	10°) 16'57	1°14'02	morning set	13073 3411 24 04.27	7 70 33 10	
C		19° X 32'39			15072 I 21 02-26	24920125	1020111
max. Earth dist.	15072 Feb 21 15:30		1.35116 AU	superior conj	15073 Jan 31 02:36	24°≈29'25	1°28'11
evening rise	15072 Feb 25 16:55	27° ¥ 23'14		minimum elong	15073 Jan 31 04:26	24° ≈ 39'13	1°28'40
desc. node	15072 Feb 26 14:34	29° ∺ 04'32			15073 Feb 02 16:47	0° ∀	
	15072 Feb 27 02:32	0 ° Υ		max. Earth dist.	15073 Feb 03 08:43	1°) €23′28	1.33379 AU
	15072 Mar 16 10:50	9° 8		evening rise	15073 Feb 08 00:43	10° ¥ 52'38	
evening max el	15072 Mar 31 23:33	19° 8 05'27	26°32'15	desc. node	15073 Feb 12 11:09	19° ∺ 21′00	
retrograde	15072 Apr 14 00:31	26° 8 29'06			15073 Feb 18 11:50	$0^{\circ}\mathbf{Y}$	
evening set	15072 Apr 20 08:57	23° 8 56'51			15073 Mar 11 23:01	0°8	
asc. node	15072 Apr 21 21:33	22° 8 34'29		evening max el	15073 Mar 14 12:55	2° 8 37'49	27°16'59
min. Earth dist.	-	19° 8 48'30	0.66617 AU	-	15073 Mar 28 02:36	10° 8 08'29	27 10 39
	15072 Apr 24 10:13	_		retrograde		_	
inferior conj	15072 Apr 26 08:19	17° 8 29'54	1°20'14	evening set	15073 Apr 03 18:46	7° 8 38'01	
minimum elong	15072 Apr 26 06:30	17° 8 35'23	1°18'58	min. Earth dist.	15073 Apr 07 15:30	4° 8 01'59	0.64955 AU
morning rise	15072 May 02 05:07	11° 8 49'28		asc. node	15073 Apr 08 18:57	2° 8 47'11	
direct	15072 May 05 06:52	10° 8 56'41		inferior conj	15073 Apr 10 01:54	1° 8 21'23	0°24'18
morning max el	15072 May 11 17:18	14° 8 20'39	18°22'03	minimum elong	15073 Apr 10 01:14	1° 8 23'14	0°23'38
Č	15072 May 23 07:55	Π° 0		C	15073 Apr 11 07:53	30° ₹ Υ	
desc. node	15072 May 24 16:22	2° I 106'11		morning rise	15073 Apr 16 09:34	25° Y ′54'14	
morning set	15072 May 31 21:02	13° Ⅲ 28'11		direct	15073 Apr 19 01:52	25°Υ16'32	
morning set	•				•		1.505.510.2
	15072 Jun 11 08:36	0° ©		morning max el	15073 Apr 25 09:31	28° Y 32'33	17°55'23
					15073 Apr 26 18:54	0°8	
superior conj	15072 Jun 16 12:18	8° © 03'25	-2°08'00	desc. node	15073 May 11 13:08	22° 8 14'04	
minimum elong	15072 Jun 16 06:36	7° 5 641'10	2°08'44	morning set	15073 May 13 01:46	24° 8 45'30	
max. Earth dist.	15072 Jun 17 06:09	9° © 13'00	1.45947 AU		15073 May 16 06:03	$\Pi^{\circ}0$	
	15072 Jun 30 13:43	$0^{\circ}\Omega$					
evening rise	15072 Jul 02 10:57	2° Ω 57'07		superior conj	15073 May 27 03:05	17° Ⅲ 34'48	-1°43'59
greatest brilliancy	15072 Jul 12 03:43	18° Ω 04'10	-0.8m	minimum elong	15073 May 26 18:14	16° Ⅱ 59'39	1°44'04
asc. node	15072 Jul 18 20:26	27° Ω 57'36	0.0111	max. Earth dist.	15073 May 31 02:05	23° ∏ 49'31	1.45583 AU
asc. Houe				max. Earm dist.	•	23 π 4931	1.43363 AU
	15072 Jul 20 08:34	0° m)			15073 Jun 04 00:59		
evening max el	15072 Jul 24 20:11	5° Mp 15'52	18°54'07	evening rise	15073 Jun 12 03:06	12° © 28'48	
retrograde	15072 Jul 31 13:26	8° Mp 56'34			15073 Jun 23 16:44	0 $^{\circ}$ Ω	
evening set	15072 Aug 03 22:46	7° m 50'18		greatest brilliancy	15073 Jun 26 09:04	3° Ω 56'48	-0.6m
inferior conj	15072 Aug 09 11:34	2° m 06'10	2°45'22	asc. node	15073 Jul 05 17:15	16° Ω 31'22	
minimum elong	15072 Aug 09 13:28	2° Mp 00'09	2°44'29	evening max el	15073 Jul 08 02:29	19° Ω 06'48	19°44'24
min. Earth dist.	15072 Aug 11 04:27	29° Ω 56′53	0.66395 AU	retrograde	15073 Jul 15 11:44	23° Ω 16′20	
	15072 Aug 11 03:27	30°RΩ		evening set	15073 Jul 19 06:52	21° Ω 52'49	
morning rise	15072 Aug 15 03:20	25° Ω 40'27		inferior conj	15073 Jul 24 14:43	15°Ω55'49	3°03'54
desc. node	15072 Aug 15 05:20 15072 Aug 20 14:26	23° Ω 04'37		minimum elong	15073 Jul 24 15:45	15° Ω 52'21	3°03'04
				•			
direct	15072 Aug 21 08:34	23° Ω 02'27		min. Earth dist.	15073 Jul 25 17:29	14° Ω 26'10	0.67746 AU
	15072 Sep 02 13:33	0° m y		morning rise	15073 Jul 30 00:10	9° Ω 30'43	
morning max el	15072 Sep 03 07:01	0° Mp 43′27	26°23'31	direct	15073 Aug 04 19:10	6° Ω 58'51	
	15072 Sep 25 05:25	0∘ ⊽		desc. node	15073 Aug 07 11:51	7° Ω 26′52	
morning set	15072 Oct 09 04:33	24° ₽ 03'16		morning max el	15073 Aug 16 17:57	14° Ω 08'35	25°04'19
	15072 Oct 12 07:17	0° M .			15073 Aug 29 16:25	0° m)	
max. Earth dist.	15072 Oct 13 01:44	1°MJ30'10	1.34638 AU		15073 Sep 18 01:03	0∘ <mark>⊽</mark>	
asc. node	15072 Oct 14 22:18	5° M ₁0'57		morning set	15073 Sep 21 13:53	6° Ω 10'15	
use. Houe	13072 000 11 22:10	3 1101037		max. Earth dist.	15073 Sep 25 03:00	12° Ω 36'00	1.36768 AU
	15072 0 + 10 05 20	110 M 54124	0020112	max. Earth dist.	13073 Sep 23 03.00	12 = 30 00	1.30708 AU
superior conj	15072 Oct 18 05:39	11°M.54'34	0°30'13				
minimum elong	15072 Oct 18 04:03	11°M46'22	0°30'29	superior conj	15073 Oct 01 17:50	25° Ω 14'57	
evening rise	15072 Oct 25 17:13	27°M35'29		minimum elong	15073 Oct 01 17:51	25° ≏ 14'58	0°00'06
	15072 Oct 26 20:59	0° ∡ ¹		behind sun begin	15073 Oct 01 11:27	24° ≏ 43'28	
evening max el	15072 Nov 13 20:16	29° х ¹09'53	20°56'44	behind sun end	15073 Oct 02 00:15	25° ≏ 46'34	
	15072 Nov 14 17:16	ರ∘ರ		asc. node	15073 Oct 01 18:54	25° ≙ 20'10	
desc. node	15072 Nov 16 11:01	1° る 28'14			15073 Oct 04 03:08	0° M	
retrograde	15072 Nov 25 10:16	4° る 55'00		evening rise	15073 Oct 09 22:24	11°M45'35	
evening set	15072 Nov 27 23:30	4°る39'28			15073 Oct 09 22:24 15073 Oct 19 14:21	0° ⊼ ¹	
•			5070126	avanina ma1			19°40'44
inferior conj	15072 Dec 06 19:53	0° る 46'53		evening max el	15073 Oct 27 03:46	10° √ 08'31	19 40 44
minimum elong	15072 Dec 06 11:27	0°る58'54		desc. node	15073 Nov 03 08:17	14° 🗷 44'12	
min. Earth dist.	15072 Dec 07 16:12	0° る 17'56	0.54485 AU	retrograde	15073 Nov 06 02:26	15° ∡ ¹06'31	
	15072 Dec 08 04:52	30°Ŗ ⋌ 7		evening set	15073 Nov 08 01:10	14° ₹ 55'57	
morning rise	15072 Dec 14 23:36	26° ∡ ¹54'00		inferior conj	15073 Nov 16 18:51	10° ₹ 53'13	-4°05'03

minimum elong	15073 Nov 16 09:11	11° ₹ 08'23	4°01'03	min. Earth dist.	15074 Oct 31 13:44	19° M. 25'27	0.56858 AU
min. Earth dist.	15073 Nov 19 00:28	9°×729'10	0.55274 AU	morning rise	15074 Nov 05 01:44	16°M44'17	0.50050110
morning rise	15073 Nov 24 15:27	6° ₹ 35'25		direct	15074 Nov 10 23:53	15° ™ 19'27	
direct	15073 Nov 29 19:18	5° х 36'14		morning max el	15074 Nov 25 04:37	22°M41'02	26°28'15
morning max el	15073 Dec 13 16:07	12° ₹ 32'10	24°53'20	C	15074 Dec 01 17:10	0° ∡ ⊓	
C	15073 Dec 27 01:18	5°0		asc. node	15074 Dec 15 16:25	21° ₹ '51'36	
asc. node	15073 Dec 28 19:21	2° る 56'53			15074 Dec 19 21:28	8°0	
morning set	15074 Jan 08 16:22	24° る 15'03		morning set	15074 Dec 24 02:54	8°₹48'48	
	15074 Jan 11 07:44	0° ≈					
				superior conj	15074 Dec 30 21:21	23° る 45'38	1°37'51
superior conj	15074 Jan 15 10:37	9° ≈ 05'22	1°36'05	minimum elong	15074 Dec 30 21:07	23° る 44'23	1°38'47
minimum elong	15074 Jan 15 11:28	9° ≈ 10'01	1°36'52	max. Earth dist.	15074 Dec 31 15:14	25° る 25'23	1.31319 AU
max. Earth dist.	15074 Jan 17 09:14	13° ≈ 20′35	1.32095 AU		15075 Jan 02 16:45	0° ≈	
evening rise	15074 Jan 22 18:37	24° ≈ 45'49		evening rise	15075 Jan 06 19:58	8° ≈ 56'04	
	15074 Jan 25 09:07	0° ∀		desc. node	15075 Jan 17 04:29	29° ≈ 01'11	
desc. node	15074 Jan 30 07:47	9°) €22'06			15075 Jan 17 17:55	0°) {	25020150
	15074 Feb 12 00:44	0°Υ 15° Ω 13335	2502511.4	evening max el	15075 Feb 07 08:13	28°) €09'40	27°20'59
evening max el	15074 Feb 25 00:35	15° Y 43'35	27°35'14		15075 Feb 09 09:19	0°Υ 5° 003 20110	
retrograde	15074 Mar 10 21:40	23°Υ11'53 20°Υ50'46		retrograde	15075 Feb 21 08:05	5° Y 29'10 3° Y 24'55	
evening set min. Earth dist.	15074 Mar 17 17:46	20°γ′50′46 17° γ ′42′31	0.62967 AU	evening set	15075 Feb 28 02:52	3°γ24'55 0° Υ 37'29	0.60781 AU
	15074 Mar 21 12:05 15074 Mar 24 09:06	17 γ 42 31 14° γ 52'19		min. Earth dist.	15075 Mar 03 22:34 15075 Mar 04 16:17	0 13/29 30°R ∺	0.00781 AU
inferior conj minimum elong	15074 Mar 24 10:34	14 γ 32 19 14° γ 48'41	0°44'01	inferior conj	15075 Mar 04 10.17	30 KA 27°¥52'58	2005/08
asc. node	15074 Mar 26 16:21	12° Y 41'01	0 44 01	minimum elong	15075 Mar 07 02:25	27°) 43'01	
morning rise	15074 Mar 31 06:06	9° Υ 40'50		asc. node	15075 Mar 13 13:48	23° H 21'24	2 03 12
direct	15074 Apr 02 14:22	9° Υ 14'45		morning rise	15075 Mar 14 14:22	23° \ 00'00	
morning max el	15074 Apr 09 03:16	12° Υ 34'19	17°46'08	direct	15075 Mar 16 16:40	22°) 41'52	
	15074 Apr 21 03:03	0°8	1, 1000	morning max el	15075 Mar 23 19:14	26°) 15'44	17°55'09
morning set	15074 Apr 25 07:57	7° 8 15'25		3	15075 Mar 27 00:35	0° Υ	
desc. node	15074 Apr 28 09:51	12° 8 35'06		morning set	15075 Apr 08 09:31	20° Y ′39'03	
	1			C	15075 Apr 13 13:17	0°8	
superior conj	15074 May 07 13:23	28° 8 02'18	-1°08'28	desc. node	15075 Apr 15 06:29	3° 8 04'10	
minimum elong	15074 May 07 06:48	27° 8 35'08	1°08'21				
	15074 May 08 18:01	Π °0		superior conj	15075 Apr 18 23:26	9° 8 34'55	-0°29'39
max. Earth dist.	15074 May 13 19:53	8° Ⅱ 12'45	1.44517 AU	minimum elong	15075 Apr 18 20:47	9° 8 23'28	0°29'45
evening rise	15074 May 22 14:12	21° Ⅱ 55'46		max. Earth dist.	15075 Apr 26 10:08	22° 8 09'27	1.42857 AU
	15074 May 27 21:30	0 \circ ∞			15075 May 01 06:34	Π °0	
	15074 Jun 18 08:45	0 ° Ω		evening rise	15075 May 02 12:01	1° Ⅱ 56'37	
evening max el	15074 Jun 21 02:56	2° Ω 59'25	20°48'52		15075 May 21 08:22	0°9	
asc. node	15074 Jun 22 14:09	4°Ω22'37		evening max el	15075 Jun 03 21:56		22°04'02
retrograde	15074 Jun 29 10:44	7° Ω 47'21		asc. node	15075 Jun 09 11:08	21°5516'44	
evening set	15074 Jul 03 16:23	6°£06'32	2000150	retrograde	15075 Jun 13 08:39	22°523'42	
inferior conj	15074 Jul 08 22:09	29°558'02	3°09'59	evening set	15075 Jun 18 01:30	20°526'21	2004150
minimum elong	15074 Jul 08 22:12 15074 Jul 08 21:35	29°557'52 30°RS	3°09'05	inferior conj minimum elong	15075 Jun 23 07:41 15075 Jun 23 06:48	14°507'56 14°511'01	3°04'59 3°03'56
min. Earth dist.	15074 Jul 08 21:33	30 k≌ 29° © 12'46	0.68637 AU	min. Earth dist.	15075 Jun 23 07:30	14°908'34	0.69046 AU
morning rise	15074 Jul 14 03:44	23°937'12	0.08037 AC	morning rise	15075 Jun 28 11:55	7°953'35	0.09040 AU
direct	15074 Jul 19 10:59	21°5518'10		direct	15075 Jul 03 06:44	5° © 51'59	
desc. node	15074 Jul 25 09:12	23°532'54		desc. node	15075 Jul 12 06:29	10°957'15	
morning max el	15074 Jul 30 04:37	27° © 42'32	23°35'58	morning max el	15075 Jul 12 17:25	11° © 24'17	22°07'36
C	15074 Aug 01 08:28	$0^{\circ}\Omega$		C	15075 Jul 27 10:50	$0^{\circ}\Omega$	
	15074 Aug 23 07:38	0° m/y		morning set	15075 Aug 14 15:58	27° Ω 35'11	
morning set	15074 Sep 03 02:52	17° m 23'47		C	15075 Aug 16 03:51	0° ™	
max. Earth dist.	15074 Sep 07 01:05	24° Mp 08'00	1.39142 AU	max. Earth dist.	15075 Aug 20 02:39	6° m 30'01	1.41479 AU
	15074 Sep 10 08:28	0∘ ⊽					
				superior conj	15075 Aug 27 21:44	19° m 53'23	-1°11'09
superior conj	15074 Sep 14 16:39	7° ≏ 58'05	-0°35'03	minimum elong	15075 Aug 28 03:20	20° m 18'13	1°10'35
minimum elong	15074 Sep 14 19:13	8° ≏ 10'02	0°34'34		15075 Sep 02 12:23	0∘ ⊽	
asc. node	15074 Sep 18 15:29	15° ≏ 28′03		asc. node	15075 Sep 05 12:04	5° ≏ 30'40	
evening rise	15074 Sep 23 20:59	25° ≙ 37'17		evening rise	15075 Sep 07 09:27	9° ഫ 01'23	
	15074 Sep 26 03:15	0° M			15075 Sep 19 14:51	0° M	
evening max el	15074 Oct 10 00:59	21°M57'13	18°46'49	evening max el	15075 Sep 23 08:08	4°M28'44	18°14'27
retrograde	15074 Oct 18 11:01	26°M11'50		retrograde	15075 Sep 30 15:12	8°M11'49	
evening set	15074 Oct 20 08:38	25°M59'39		evening set	15075 Oct 02 18:05	7°M53'36	
desc. node	15074 Oct 21 05:36	25°M46'16	2010/22	desc. node	15075 Oct 08 03:00	4°M51'18	0020100
inferior conj	15074 Oct 28 12:30	21°M37'53		inferior conj	15075 Oct 10 04:04	3°M10'19	
minimum elong	15074 Oct 28 06:45	21°M48'19	2 10 34	minimum elong	15075 Oct 10 02:40	3°M₁3'19	0 3/39

min. Earth dist.	15075 Oct 13 10:36	0°M24'31	0.58940 AU	inferior conj	15076 Sep 21 15:27	15° ≏ 26'37	0°43'33
	15075 Oct 13 22:53	30° ŖΩ		minimum elong	15076 Sep 21 16:44	15° ≏ 23'27	0°43'14
morning rise	15075 Oct 17 07:51	27° ≏ 40'57		desc. node	15076 Sep 24 00:29	13° ≏ 06'38	
direct	15075 Oct 23 17:59	25° ≏ 49'40		min. Earth dist.	15076 Sep 24 17:02	12° ≏ 27'24	0.61224 AU
	15075 Nov 03 00:06	0° M.		morning rise	15076 Sep 28 08:18	9° ≏ 29'14	
morning max el	15075 Nov 07 01:06	3°M31'12	27°32'43	direct	15076 Oct 04 23:58	7° ≏ 14'31	
	15075 Nov 26 09:40	0° ∡ ¹		morning max el	15076 Oct 19 05:09	15° ≏ 10'11	27°58'36
asc. node	15075 Dec 02 13:25	11° ∡ 14'29			15076 Oct 31 07:20	0° M	
morning set	15075 Dec 08 10:21	23° ∡ 10'35			15076 Nov 17 22:48	0° ∡	
	15075 Dec 11 14:02	8°0		asc. node	15076 Nov 18 10:18	0° ∡ ¹56'55	
				morning set	15076 Nov 21 12:40	7° ∡ 14'31	
superior conj	15075 Dec 15 08:53	8° る 25'12	1°33'39	max. Earth dist.	15076 Nov 27 05:37	19° ∡ ′29'21	1.31360 AU
minimum elong	15075 Dec 15 07:40	8° る 18'24	1°34'34				
max. Earth dist.	15075 Dec 14 23:22	7° る 31'55	1.31069 AU	superior conj	15076 Nov 28 19:19	22° х 57'51	1°23'31
evening rise	15075 Dec 22 02:29	23° ප 18'10		minimum elong	15076 Nov 28 17:21	22° ∡ ¹46'55	1°24'16
•	15075 Dec 25 07:01	0° ≈			15076 Dec 01 23:15	0°ರ	
desc. node	15076 Jan 04 01:16	18° ≈ 10′08		evening rise	15076 Dec 05 12:07	7° る 46'00	
	15076 Jan 11 21:46	0°) €		C	15076 Dec 16 20:16	0° ≈	
evening max el	15076 Jan 20 08:56	9°){ 45'27	26°31'35	desc. node	15076 Dec 20 22:10	6° ≈ 36'44	
retrograde	15076 Feb 03 08:19	16°) 53′52		evening max el	15077 Jan 01 00:59	20° ≈ 27'47	25°10'50
evening set	15076 Feb 09 18:39	15° ¥ 13'03		retrograde	15077 Jan 14 20:53	27° ≈ 24'11	
min. Earth dist.	15076 Feb 13 22:30		0.58577 AU	evening set	15077 Jan 20 13:15	26° ≈ 11'24	
inferior conj	15076 Feb 17 02:10	10° X 13'25		min. Earth dist.	15077 Jan 25 13:11	23° ≈ 28'46	0.56594 AU
minimum elong	15076 Feb 17 10:03		3°29'43	inferior conj	15077 Jan 28 05:19	21°≈44'00	
morning rise	15076 Feb 25 04:41	5°) (30'35	3 27 43	minimum elong	15077 Jan 28 14:25		4°52'36
direct	15076 Feb 27 04:30	5° ¥ 28′02		morning rise	15077 Feb 05 18:09	17°≈34'13	7 32 30
asc. node	15076 Feb 28 11:13	5°) 33′57		direct	15077 Feb 07 21:29	17°≈21'04	
morning max el	15076 Mar 06 05:46	9° \ 26'42	18°23'47	asc. node	15077 Feb 07 21:29 15077 Feb 14 08:40	17 ≈21 04 19°≈30'29	
morning max ci	15076 Mar 19 13:52	9 γ (2042)	10 2547	morning max el	15077 Feb 17 06:42	21°≈54'56	19°14'00
morning sat	15076 Mar 22 00:53	4° Υ 39'38		morning max ci	15077 Feb 23 15:12	0° ∺	19 14 00
morning set	130/6 Iviai 22 00.33	4 1 39 36		marning act	15077 Mar 06 01:35	0 X 19° ¥ 03'18	
gumariar agni	15076 Mar. 21, 07:10	22° Y ′06'34	0°06'50	morning set		19 χ 03 18	
superior conj	15076 Mar 31 07:10	22° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0°06'29		15077 Mar 11 13:42	0-1	
minimum elong	15076 Mar 31 07:38	21° Y $38'09$	0.06.29		15077.14 14 00 07	5° Ƴ 24'08	0020100
behind sun begin	15076 Mar 31 00:58			superior conj	15077 Mar 14 08:07	5° Υ 34'32	0°38'00
behind sun end	15076 Mar 31 14:19	22° Υ 39'18		minimum elong	15077 Mar 14 10:17	3° γ 34 32 14° Υ 10'57	0°37'39
desc. node	15076 Apr 01 03:05	23° Ƴ 37'31		desc. node	15077 Mar 18 23:39		1 20405 444
D d C	15076 Apr 04 16:31	0°8	1 40774 411	max. Earth dist.	15077 Mar 21 02:09	18° Υ 01'24	1.38495 AU
max. Earth dist.	15076 Apr 07 19:53	5° 8 27'21	1.40774 AU	evening rise	15077 Mar 24 19:49	24° Y 37'59	
evening rise	15076 Apr 12 05:24	12° 8 50'26			15077 Mar 27 23:23	0° B	
	15076 Apr 23 03:06	0° I			15077 Apr 16 19:43	0°П	
	15076 May 15 19:15	0°©		evening max el	15077 Apr 29 02:38	14° Ⅱ 39'10	24°44'59
evening max el	15076 May 16 13:07	0° © 45'17	23°24'48	retrograde	15077 May 10 20:15	21° Ⅲ 30′18	
asc. node	15076 May 26 08:13	6° © 57'05		asc. node	15077 May 13 05:25	21° Ⅱ 06'01	
retrograde	15076 May 27 04:12	7° © 00'08		evening set	15077 May 16 12:09	19° Ⅱ 06'58	
evening set	15076 Jun 01 08:37	4°9548'12		min. Earth dist.	15077 May 20 23:24	14° Ⅲ 02'51	0.68402 AU
	15076 Jun 05 12:50	30°Ŗ Ⅱ		inferior conj	15077 May 22 01:22	12° Ⅲ 36'30	2°23'40
min. Earth dist.	15076 Jun 06 04:15	29° ∏ 07'21	0.68966 AU	minimum elong	15077 May 21 23:16	12° Ⅱ 43'29	2°22'15
inferior conj	15076 Jun 06 17:24	28° ∏ 22'04	2°49'33	morning rise	15077 May 27 10:38	6° Ⅱ 38'58	
minimum elong	15076 Jun 06 15:45	28° ∏ 27'44	2°48'17	direct	15077 May 31 05:10	5° Ⅱ 17'23	
morning rise	15076 Jun 11 22:51	22° I 15'35		morning max el	15077 Jun 07 12:33	9° Ⅱ 20'01	19°38'08
direct	15076 Jun 16 05:15	20° Ⅲ 33'50		desc. node	15077 Jun 15 00:48	18° Ⅱ 24'43	
morning max el	15076 Jun 24 11:26	25° Ⅱ 16'37	20°46'36	greatest brilliancy	15077 Jun 20 06:05	25° Ⅱ 49'36	-0.6m
desc. node	15076 Jun 28 03:42	29° ∏ 19'43			15077 Jun 23 01:55	0 \circ	
	15076 Jun 28 17:03	0ಂತಾ		morning set	15077 Jul 03 09:29	15° © 38'09	
	15076 Jul 19 19:52	0 ° Ω			15077 Jul 12 15:50	0 \circ Ω	
morning set	15076 Jul 24 06:22	6° Ω 49'22		max. Earth dist.	15077 Jul 15 00:40	3° Ω 43'24	1.44992 AU
max. Earth dist.	15076 Aug 01 10:40	19° Ω 45'27	1.43503 AU				
	15076 Aug 07 16:29	0° m		superior conj	15077 Jul 19 12:29	10° Ω 51'55	
				minimum elong	15077 Jul 19 18:05	11° Ω 14'20	2°07'53
superior conj	15076 Aug 08 04:50	0° ™ 51'38			15077 Jul 31 04:59	0° m	
minimum elong	15076 Aug 08 12:26	1° Mp 23'27	1°43'56	evening rise	15077 Aug 02 09:35	3° Mp 40'08	
evening rise	15076 Aug 20 07:23	21°Mp46'34		asc. node	15077 Aug 09 05:17	15°M)03'42	
asc. node	15076 Aug 22 08:39	25° m 23'58			15077 Aug 19 12:46	0∘ ত	
	15076 Aug 24 23:39	0∘ ⊽		evening max el	15077 Aug 20 11:41	0° ჲ 59'42	18°08'24
evening max el	15076 Sep 05 20:57	17° ≏ 32'31	18°02'05	retrograde	15077 Aug 26 20:26	4° ≏ 20'27	
retrograde	15076 Sep 12 11:54	20° ≙ 57'45		evening set	15077 Aug 29 15:22	3° ≏ 39'24	
evening set	15076 Sep 14 22:20	20° ≏ 29'44			15077 Sep 03 05:12	30°R, Mp	

inferior conj	15077 Sep 04 18:42	28° m 18'59	1°45'20	evening max el	15078 Aug 04 01:05	14° m) 41'18	18°32'32
minimum elong	15077 Sep 04 18:42	28° m) 12'34	1°44'29	retrograde	15078 Aug 10 12:43	18° M) 10'44	18 32 32
min. Earth dist.	15077 Sep 07 21:01 15077 Sep 07 09:27	25° My 26'38	0.63451 AU	evening set	15078 Aug 13 16:40	17° M) 14'10	
desc. node	15077 Sep 10 22:00	22° m 09'07	0.05451710	inferior conj	15078 Aug 19 09:48	11° m ₂ 38'25	2°28'09
morning rise	15077 Sep 11 00:42	22° m/03'55		minimum elong	15078 Aug 19 12:02	11° my 30'25	2°27'14
direct	15077 Sep 17 16:04	19° m) 32'48		min. Earth dist.	15078 Aug 21 10:57	9° m 09'47	0.65431 AU
morning max el	15077 Oct 01 14:09	27° m) 33'14	27°46'05	morning rise	15078 Aug 25 06:14	5° m) 14'45	0.00 101 110
morning man er	15077 Oct 03 22:03	0° 0	27 .000	desc. node	15078 Aug 28 19:29	3° m/07'01	
	15077 Oct 25 00:54	0° M ,		direct	15078 Aug 31 16:24	2° m/36'25	
morning set	15077 Nov 05 07:38	20°M55'29		morning max el	15078 Sep 14 01:08	10° m) 28'27	27°00'53
asc. node	15077 Nov 05 07:07	20°M52'57			15078 Sep 29 12:14	0∘ ⊽	_,
	15077 Nov 09 17:05	0° ∡ ¹			15078 Oct 17 12:30	0°M₊	
max. Earth dist.	15077 Nov 10 06:05	1° ₹ '09'00	1.32206 AU	morning set	15078 Oct 19 16:21	4°ML06'16	
				asc. node	15078 Oct 23 03:51	10°M57'14	
superior conj	15077 Nov 13 02:44	7° ∡ 18'47	1°07'28	max. Earth dist.	15078 Oct 23 21:34	12°M26'41	1.33607 AU
minimum elong	15077 Nov 13 00:25	7° ∡ ¹06'10	1°07'58				
evening rise	15077 Nov 19 23:02	22° ∡ 15′28		superior conj	15078 Oct 28 04:54	21° M 21'41	0°45'29
•	15077 Nov 23 15:20	0°ರ		minimum elong	15078 Oct 28 02:49	21°M10'44	0°45'48
desc. node	15077 Dec 07 19:09	24° る 05'35		C	15078 Nov 01 06:09	0° ∡ ¹	
	15077 Dec 12 21:43	0° ≈		evening rise	15078 Nov 04 09:22	6° ∡ ¹41'35	
evening max el	15077 Dec 13 11:02	0° ≈ 32'38	23°30'53	C	15078 Nov 16 17:00	8°0	
retrograde	15077 Dec 26 20:24	7° ≈ 11'10		desc. node	15078 Nov 24 16:15	10° ප 16'05	
evening set	15077 Dec 31 08:47	6° ≈ 26'54		evening max el	15078 Nov 24 23:12	10° る 33'18	21°49'27
min. Earth dist.	15078 Jan 06 21:49	3° ≈ 20'04	0.55131 AU	retrograde	15078 Dec 07 08:38	16° る 41'13	
inferior conj	15078 Jan 08 12:08	2° ≈ 24'01	-5°51'04	evening set	15078 Dec 10 13:09	16° る 18'26	
minimum elong	15078 Jan 08 16:56	2°≈17'00	5°49'44	inferior conj	15078 Dec 19 05:14	12° る 26'48	-5°54'33
Č	15078 Jan 12 21:51	30°Ŗる		minimum elong	15078 Dec 19 00:57	12° る 32'48	5°53'14
morning rise	15078 Jan 17 02:39	28° ට 31'04		min. Earth dist.	15078 Dec 19 03:36	12° る 29'06	0.54457 AU
direct	15078 Jan 19 19:05	28° ප 13'30		morning rise	15078 Dec 27 13:30	8° る 39'07	
	15078 Jan 26 04:08	0° ≈		direct	15078 Dec 31 04:30	8° ප 10'16	
morning max el	15078 Jan 30 18:10	3° ≈ 30'11	20°27'19	morning max el	15079 Jan 12 14:49	14° る 10'08	22°02'27
asc. node	15078 Feb 01 06:03	5° ≈ 02'17		asc. node	15079 Jan 19 03:22	21° る 51'59	
	15078 Feb 16 13:06	0°) €			15079 Jan 24 07:58	0° ≈	
morning set	15078 Feb 18 08:23	3°) 40′47		morning set	15079 Feb 02 18:47	18° ≈ 25′04	
					15079 Feb 08 05:17	0°) €	
superior conj	15078 Feb 25 21:59	19° ¥ 15′35	1°02'44				
minimum elong	15078 Feb 26 00:36	19° ¥ 28'52	1°02'37	superior conj	15079 Feb 09 21:08	3° ∺ 31′03	1°20'46
	15078 Mar 03 08:38	0° Y		minimum elong	15079 Feb 09 23:24	3°) 42′59	1°21'02
max. Earth dist.	15078 Mar 03 09:18	0° Y 03'14	1.36277 AU	max. Earth dist.	15079 Feb 13 22:17	11° ¥ 54'05	1.34326 AU
desc. node	15078 Mar 05 20:11	4° Υ 41′00		evening rise	15079 Feb 18 05:42	20° ∺ 24'59	
evening rise	15078 Mar 07 05:05	7° Ƴ 12'37		desc. node	15079 Feb 20 16:44	25°) €03'54	
	15078 Mar 20 18:16	9° 8			15079 Feb 23 09:43	0 ° Υ	
evening max el	15078 Apr 11 16:10	28° 8 31'09	25°57'20		15079 Mar 14 16:52	9° 8	
	15078 Apr 13 05:49	$0^{\circ}\Pi$		evening max el	15079 Mar 25 06:04	12° 8 14'42	26°54'17
retrograde	15078 Apr 24 07:39	5° Ⅱ 46'51		retrograde	15079 Apr 07 13:17	19° 8 42'22	
evening set	15078 Apr 30 10:18	3° Ⅱ 16'30		evening set	15079 Apr 14 01:14	17° 8 10'24	
asc. node	15078 Apr 30 02:43	3° Ⅱ 31'55		asc. node	15079 Apr 17 00:03	14° 8 23'31	
	15078 May 03 15:06	30° ₹ 8		min. Earth dist.	15079 Apr 18 00:29	13° 8 15'56	0.65948 AU
min. Earth dist.	15078 May 04 14:52	28° 8 48'02	0.67384 AU	inferior conj	15079 Apr 20 03:48	10° 8 46'55	0°58'06
inferior conj	15078 May 06 05:35	26° 8 46'25	1°46'47	minimum elong	15079 Apr 20 02:22	10° 8 51'07	0°57'02
minimum elong	15078 May 06 03:29	26° 8 53'02	1°45'23	morning rise	15079 Apr 26 04:51	5° 8 11'33	
morning rise	15078 May 11 21:21	20° 8 59'05		direct	15079 Apr 29 02:28	4° 8 25'28	
direct	15078 May 15 04:54	19° 8 56'25		morning max el	15079 May 05 10:43	7° 8 44'43	18°08'36
morning max el	15078 May 21 20:47	23° 8 31'05	18°45'02	desc. node	15079 May 19 18:36	27° 8 58'42	
	15078 May 27 07:55	0°II			15079 May 21 00:48	0°II	
desc. node	15078 Jun 01 21:45	8° I I00'26		morning set	15079 May 24 10:12	5° Ⅱ 27'54	
greatest brilliancy	15078 Jun 05 01:29	12° Ⅱ 47'51	-0.8m			_	
morning set	15078 Jun 12 21:29	24° Ⅱ 56'25		superior conj	15079 Jun 08 11:02	29° Ⅲ 22'50	
pp. 18 - 29	15078 Jun 16 03:25	0°95	1 45010 177	minimum elong	15079 Jun 08 03:11	28° Ⅱ 52'05	2°00'14
max. Earth dist.	15078 Jun 27 18:49	18°908'30	1.45810 AU	ge - at - 44	15079 Jun 08 20:31	0°95	1.45006 : **
	4 = 0 = 0 = -			max. Earth dist.	15079 Jun 10 15:13	2°546'54	1.45886 AU
superior conj	15078 Jun 29 01:49	20° © 09'38		evening rise	15079 Jun 24 13:40	24°525'10	
minimum elong	15078 Jun 29 00:24	20°904'06	2°14'33		15079 Jun 28 04:18	0°Ω	
	15078 Jul 05 08:16	0° Ω		greatest brilliancy	15079 Jul 06 09:50	12° Ω 34'27	-0.7m
evening rise	15078 Jul 14 11:31	14° Ω 31'18		asc. node	15079 Jul 13 22:44	23° Ω 16'56	
_	15078 Jul 24 04:55	0° Mp		evening max el	15079 Jul 18 10:34	28° Ω 30'41	19°13'35
asc. node	15078 Jul 27 01:58	4° Mg 23'42			15079 Jul 20 01:49	0° m)	

retrograde	15079 Jul 25 09:31	2°Mp21'45		evening rise	15080 Jun 03 01:32	3°5549'08	
evening set	15079 Jul 28 23:02	1°Mp08'06			15080 Jun 20 16:46	0 $^{\circ}\Omega$	
	15079 Jul 30 08:37	30° R Ω		asc. node	15080 Jun 29 19:34	11° Ω 33'51	
inferior conj	15079 Aug 03 09:22	25° Ω 18′29	2°54'50	evening max el	15080 Jun 30 14:25	12° Ω 22'17	20°10'14
minimum elong	15079 Aug 03 10:56	25° Ω 13′25	2°53'58	retrograde	15080 Jul 08 08:23	16° Ω 46'57	
min. Earth dist.	15079 Aug 04 20:13	23° Ω 25′20	0.67033 AU	evening set	15080 Jul 12 07:59	15° Ω 15'47	
morning rise	15079 Aug 08 22:12	18° Ω 52'45		inferior conj	15080 Jul 17 14:37	9° Ω 13'35	3°07'55
direct	15079 Aug 14 23:26	16° Ω 16′25		minimum elong	15080 Jul 17 15:14	9° Ω 11′29	3°07'03
desc. node	15079 Aug 15 16:56	16° Ω 18'27		min. Earth dist.	15080 Jul 18 11:24	8° Ω 02'47	0.68184 AU
morning max el	15079 Aug 27 12:17	23° Ω 45′08	25°51'29	morning rise	15080 Jul 22 22:08	2° Ω 50'09	
	15079 Sep 02 02:15	0° m/		direct	15080 Jul 28 12:13	0° Ω 23'21	
	15079 Sep 22 21:09	0∘ ⊽		desc. node	15080 Aug 01 14:19	1° Ω 27'40	
morning set	15079 Oct 02 11:23	° – 16° ≏ 39'05		morning max el	15080 Aug 08 23:04	7° Ω 14'40	24°27'24
max. Earth dist.	15079 Oct 02 11:23 15079 Oct 06 03:34	23° £ 32'04	1.35509 AU	morning max ci	•	0°m)	24 27 24
max. Earm dist.			1.33309 AU		15080 Aug 26 17:36		
	15079 Oct 09 11:15	0°M,		morning set	15080 Sep 13 12:39	28° m/24'50	
asc. node	15079 Oct 10 00:30	1°M05'46			15080 Sep 14 10:27	0∘ ⊽	
				max. Earth dist.	15080 Sep 17 03:12	4° ≙ 47'54	1.37765 AU
superior conj	15079 Oct 11 23:08	5°M00'03	0°17'50				
minimum elong	15079 Oct 11 22:06	4° M 54'49	0°18'06	superior conj	15080 Sep 24 06:11	18° ഫ 06'03	-0°14'43
evening rise	15079 Oct 19 17:08	20°M59'30		minimum elong	15080 Sep 24 07:09	18° ≙ 10'46	0°14'20
	15079 Oct 24 04:11	0° ∡ ¹		behind sun begin	15080 Sep 24 04:00	17° ≏ 55'31	
evening max el	15079 Nov 06 22:22	21° ₹ '04'40	20°21'40	behind sun end	15080 Sep 24 10:19	18° ≏ 26′02	
desc. node	15079 Nov 11 13:27	24° ≯ ⁴43'09		asc. node	15080 Sep 25 21:06	21° ≏ 15′02	
retrograde	15079 Nov 17 19:32	26° х 29′38			15080 Sep 30 07:11	0° M .	
evening set	15079 Nov 20 00:55	26° ∡ 17'07		evening rise	15080 Oct 02 19:57	5°ML03'25	
inferior conj	15079 Nov 28 21:50	22° х 21'36	-4°57'53	<i>5</i>	15080 Oct 17 07:50	0° ∡ ¹	
minimum elong	15079 Nov 28 11:56	22° х 36'08	4°54'28	evening max el	15080 Oct 19 12:00	2° × 125'05	19°15'00
min. Earth dist.	15079 Nov 30 09:38	21° × ⁷ 29'01	0.54717 AU	desc. node	15080 Oct 28 10:44	7° ₹ 103'43	17 13 00
morning rise	15079 Dec 06 22:26	18° × 20'37	0.54/1/ AU	retrograde	15080 Oct 28 10:44 15080 Oct 28 18:18	7° × 704'01	
				•			
direct	15079 Dec 11 13:50	17° 🗷 34'14	22051100	evening set	15080 Oct 30 15:18	6° ₹ 53'24	2021107
morning max el	15079 Dec 25 01:18	24° ₹ 11'01	23°51'08	inferior conj	15080 Nov 08 04:01	2° 🖈 42'48	
_	15079 Dec 30 07:34	0° ろ		minimum elong	15080 Nov 07 19:42	2° ∡ 56'39	3°17'18
asc. node	15080 Jan 06 00:36	9° る 41'30		min. Earth dist.	15080 Nov 10 19:35	0° ∡ 757'10	0.55865 AU
	15080 Jan 16 18:59	0° ≈			15080 Nov 12 08:08	30°RML	
morning set	15080 Jan 18 06:40	3° ≈ 09′25		morning rise	15080 Nov 15 21:41	28°M10'28	
				direct	15080 Nov 21 09:46	27° M 01'07	
superior conj	15080 Jan 25 02:37	18° ≈ 01'26	1°32'17		15080 Nov 30 07:38	0° ∡ ¹	
minimum elong	15080 Jan 25 04:03	18° ≈ 09'14	1°32'55	morning max el	15080 Dec 05 11:06	4° ₮ 08'22	25°36'36
max. Earth dist.	15080 Jan 27 19:02	23° ≈ 48'17	1.32776 AU	asc. node	15080 Dec 22 21:44	28° ₰ 16'07	
	15080 Jan 30 17:55	0° ∀			15080 Dec 23 20:45	5°0	
evening rise	15080 Feb 01 18:09	4°) €05'17		morning set	15081 Jan 01 18:14	17° る 48'58	
desc. node	15080 Feb 07 13:18	15°) 14′25		3	15081 Jan 07 07:11	0° ≈	
dese. node	15080 Feb 16 03:50	0°Υ			100010411 07 07.11		
evening max el	15080 Mar 06 19:06	25° Υ 37'33	27°28'27	superior conj	15081 Jan 08 12:04	2° ≈ 40'16	1°37'34
evening max er	15080 Mar 12 01:37	23 † 37 33	21 2021	minimum elong	15081 Jan 08 12:04 15081 Jan 08 12:28	2°≈42'27	1°38'26
. 1		3° 8 07'15		•			
retrograde	15080 Mar 20 12:13			max. Earth dist.	15081 Jan 09 22:25	5°≈50'08	1.31704 AU
evening set	15080 Mar 27 06:42	0° 8 39'58		evening rise	15081 Jan 15 15:33	18°≈06'34	
	15080 Mar 28 03:30	30°₹ Υ			15081 Jan 21 15:18	0°)	
min. Earth dist.	15080 Mar 31 02:10	27° Υ 16'29	0.64145 AU	desc. node	15081 Jan 24 09:59	5° ₩ 07'10	
inferior conj	15080 Apr 02 17:20	24° Ƴ 30′24			15081 Feb 09 15:26	0° Υ	
minimum elong	15080 Apr 02 17:27	24° Ƴ 30′07	0°03'32	evening max el	15081 Feb 17 05:11	8° Y 27′06	27°33'13
transit middle	15080 Apr 02 17:27	24° Ƴ 30′07	0°03'32	retrograde	15081 Mar 03 03:36	15° Ƴ 52'11	
transit begin	15080 Apr 02 14:25	24° Y 38'08		evening set	15081 Mar 10 00:08	13° Y 37'00	
transit end	15080 Apr 02 20:28	24° Y 22'07		min. Earth dist.	15081 Mar 13 18:20	10° Ƴ 38'59	0.62058 AU
asc. node	15080 Apr 02 21:27	24° Y 19'32		inferior conj	15081 Mar 16 19:02	7° Ƴ 49'03	-1°17'24
morning rise	15080 Apr 09 06:22	19° Ƴ 09'27		minimum elong	15081 Mar 16 21:43	7° Ƴ 42'45	1°16'20
direct	15080 Apr 11 19:12	18° Ƴ 36'58		asc. node	15081 Mar 20 18:52	4° Υ 25'12	
morning max el	15080 Apr 18 03:54	21°Υ′52'51	17°49'20	morning rise	15081 Mar 23 22:19	2° Υ 45'23	
	15080 Apr 16 03:34 15080 Apr 24 12:43	0°8	., ., 20	direct	15081 Mar 26 03:49	2°Υ23'06	
morning set	_	17° 8 17'51				5° Υ 47'03	17°47'43
morning set	15080 May 05 02:22			morning max el	15081 Apr 01 21:20		1/4/43
desc. node	15080 May 05 15:20	18° 8 12'32		morning set	15081 Apr 17 17:27	0° 8 12'04	
	15080 May 12 16:47	$\Pi^{\circ}0$			15081 Apr 17 14:43	0°8	
				desc. node	15081 Apr 22 12:01	8° 8 37'08	
superior conj	15080 May 18 08:53	9° Ⅱ 14′26					
minimum elong	15080 May 18 00:32	8° Ⅱ 40'49		superior conj	15081 Apr 29 05:13	20° 8 09'21	
max. Earth dist.	15080 May 23 11:02	17° Ⅱ 21'14	1.45214 AU	minimum elong	15081 Apr 29 00:18	19° 8 48'40	0°51'56
	15080 May 31 13:49	0°€			15081 May 05 04:10	Π °0	

superior conj

minimum elong

behind sun begin

15082 Apr 11 01:00

15082 Apr 10 23:51

15082 Apr 10 20:00

2°**8**08'37 -0°13'40

0°13'54

2°803'30

1°846'22

direct

asc. node

15083 Feb 19 04:28

15083 Feb 22 13:45

15083 Feb 25 03:31

27°≈58'16

28°≈37'12

0°)

morning max el	15083 Feb 27 18:31	2° ₩ 11'16	18°42'20	asc. node	15084 Feb 09 11:11	13°≈16'21	
morning set	15083 Mar 15 21:20	28°\(\)\(\)\(\)\(\)\(\)\(\)	16 42 20	morning max el	15084 Feb 10 14:06	13 ≈1021 14°≈18'05	19°42'14
morning set	15083 Mar 16 21:04	28 γ (04 42 0° γ		morning max er	15084 Feb 21 13:10	0° \	19 42 14
	13063 Wai 10 21.04	0 1		morning set	15084 Feb 28 01:03	12° ¥ 35'56	
aumariar aani	15083 Mar 24 16:36	15° Ƴ 00'59	0°20'48	morning set	13084 Feb 28 01.03	12 大3330	
superior conj		15 Υ 00 39 15° Υ 07'21	0°20'25	aumorior comi	15094 Mar 06 22:25	28° ¥ 34'33	0°49'18
minimum elong	15083 Mar 24 17:58	19° Y 42'02	0-20-25	superior conj	15084 Mar 06 23:35	28° X 34'33 28° X 46'47	
desc. node	15083 Mar 27 05:15		1 20012 ATT	minimum elong	15084 Mar 07 02:03	28°π46'47 0°Υ	0°49'01
max. Earth dist.	15083 Mar 31 23:04	28° Y 11'42	1.39813 AU	T d F d	15084 Mar 07 16:58		1 27520 ATT
	15083 Apr 01 23:57	0°8		max. Earth dist.	15084 Mar 13 05:37	10° Y 32'12	1.37539 AU
evening rise	15083 Apr 04 23:30	5° 8 05'22		desc. node	15084 Mar 13 01:49	10° Υ 14'37	
	15083 Apr 20 21:59	0°П		evening rise	15084 Mar 16 22:25	17° Y 14′28	
evening max el	15083 May 09 19:40	24° Ⅱ 00'16	23°59'30		15084 Mar 24 10:37	0° 8	
	15083 May 18 03:14	0 \circ			15084 Apr 14 07:12	0°П	
retrograde	15083 May 20 22:30	0° © 31'27		evening max el	15084 Apr 21 09:13	7° Ⅱ 54'24	25°17'05
asc. node	15083 May 21 10:39	0° © 30'20		retrograde	15084 May 03 12:30	14° Ⅱ 56'36	
	15083 May 23 13:35	30°Ŗ Ⅱ		asc. node	15084 May 07 07:52	13° Ⅱ 55'59	
evening set	15083 May 26 07:46	28° Ⅱ 14'29		evening set	15084 May 09 09:12	12° Ⅱ 29'43	
min. Earth dist.	15083 May 30 23:44	22° Ⅱ 49'10	0.68783 AU	min. Earth dist.	15084 May 13 17:29	7° Ⅱ 41'03	0.68033 AU
inferior conj	15083 May 31 18:15	21° Ⅱ 46′11	2°39'51	inferior conj	15084 May 15 00:51	5° Ⅱ 59'02	
minimum elong	15083 May 31 16:22	21° Ⅱ 52'35	2°38'32	minimum elong	15084 May 14 22:42	6° Ⅱ 06′05	2°07'57
morning rise	15083 Jun 06 00:58	15° Ⅱ 43'10		morning rise	15084 May 20 12:34	0° Ⅱ 05'45	
direct	15083 Jun 10 02:19	14° Ⅱ 09'50			15084 May 20 15:59	30° ₹႘	
morning max el	15083 Jun 17 21:50	18° Ⅲ 34′02	20°15'41	direct	15084 May 24 02:25	28° 8 52'17	
desc. node	15083 Jun 23 06:04	24° Ⅱ 42'06			15084 May 27 17:25	Π°	
	15083 Jun 27 05:33	0 ° \mathfrak{S}		morning max el	15084 May 31 02:02	2° Ⅱ 40'57	19°13'31
morning set	15083 Jul 16 02:00	27° 9 54'16		desc. node	15084 Jun 09 03:06	14° Ⅱ 01′02	
_	15083 Jul 17 10:35	$0^{\circ}\Omega$		greatest brilliancy	15084 Jun 12 21:12	19° Ⅱ 29'49	-0.7m
max. Earth dist.	15083 Jul 25 16:17	12° Ω 56′16	1.44215 AU		15084 Jun 19 19:53	0°ಲ	
				morning set	15084 Jun 24 06:18	6°€48'23	
superior conj	15083 Jul 31 15:09	22° Ω 34'01	-1°55'38	max. Earth dist.	15084 Jul 07 08:52	27° © 09'25	1.45436 AU
minimum elong	15083 Jul 31 22:34	23° Ω 04'24			15084 Jul 09 04:15	$0^{\circ}\Omega$	
8	15083 Aug 05 02:44	0° m)					
evening rise	15083 Aug 13 11:42	14° m) 17'02		superior conj	15084 Jul 10 13:43	2°Ω12'02	-2°12'25
asc. node	15083 Aug 17 10:53	21° mp 07'28		minimum elong	15084 Jul 10 16:47	2° Ω 24'08	
ase. Hode	15083 Aug 22 18:19	ე∘ <u>ი</u>		evening rise	15084 Jul 25 03:55	25° Ω 44'22	2 13 13
evening max el	15083 Aug 30 14:10	0 — 10° — 34'06	18°02'36	evening rise	15084 Jul 27 18:08	0° m)	
retrograde	15083 Sep 06 01:07	13° ⊆ 55'25	10 02 30	asc. node	15084 Aug 03 07:31	10° mp 39'04	
evening set	15083 Sep 08 05:13	13° ⊆ 22'04		evening max el	15084 Aug 13 04:37	24° m 07'35	18°16'30
inferior conj	15083 Sep 08 13:13 15083 Sep 15 02:02	8° £ 11'16	1012112	retrograde	15084 Aug 19 13:26	27° m) 30'26	18 10 30
minimum elong	15083 Sep 15 02:02 15083 Sep 15 03:56		1°11'36	evening set	15084 Aug 22 12:12	26° m/42'53	
min. Earth dist.	•		0.62195 AU	inferior conj	Č	-	2°05'40
	15083 Sep 17 23:30	5° Ω 12'52	0.02193 AU	,	15084 Aug 28 10:44	21° Th 15'24	
desc. node	15083 Sep 19 03:01	4° Ω 07'05		minimum elong	15084 Aug 28 13:07	21° mp 08'30	2°04'46
morning rise	15083 Sep 21 14:13	2° Ω 05'30		min. Earth dist.	15084 Aug 30 19:45	18° m 31'41	0.64332 AU
11	15083 Sep 25 22:18	30°R, M)		morning rise	15084 Sep 03 12:27	14° m 55'45	
direct	15083 Sep 28 06:36	29° m/42'49		desc. node	15084 Sep 05 00:30	13° TQ 52'16	
	15083 Sep 30 16:42	0∘ ⊽	0.55.55.4.6	direct	15084 Sep 10 02:02	12° m) 20'46	25020122
morning max el	15083 Oct 12 09:03	7° ≏ 41'01	27°57'46	morning max el	15084 Sep 23 19:15	20° Mp 18'47	27°30'32
	15083 Oct 29 11:55	0°M			15084 Oct 02 03:29	ი∘ ত	
asc. node	15083 Nov 13 12:38	26° ™ 44'08			15084 Oct 21 13:44	0°M,	
morning set	15083 Nov 15 08:44	0° ∡ ¹27'20		morning set	15084 Oct 28 23:40	13°M 55'37	
	15083 Nov 15 03:24	0° ∡		asc. node	15084 Oct 30 09:24	16° M 43'46	
max. Earth dist.	15083 Nov 20 17:32	11° ∡ ⁴49'20	1.31651 AU	max. Earth dist.	15084 Nov 02 14:43		1.32734 AU
					15084 Nov 05 18:09	0° ∡ ¹	
superior conj	15083 Nov 22 20:09	16° ∡ ¹26'37	1°17'28				
minimum elong	15083 Nov 22 17:58	16° ∡ 14'37	1°18'06	superior conj	15084 Nov 06 01:34	0° ∡ ′39'52	0°58'52
	15083 Nov 28 23:44	0°₹		minimum elong	15084 Nov 05 23:16	0° ∡ ¹27'29	0°59'16
evening rise	15083 Nov 29 13:52	1° る 16'34		evening rise	15084 Nov 13 00:44	15° ∡ ¹44'47	
	15083 Dec 14 23:46	0° ≈			15084 Nov 20 00:49	0°₹	
desc. node	15083 Dec 16 00:30	1° ≈ 30'58		desc. node	15084 Dec 01 21:31	18° る 28'59	
evening max el	15083 Dec 24 20:22	12° ≈ 09′26	24°29'47	evening max el	15084 Dec 05 05:55	22° る 06'41	22°46'53
retrograde	15084 Jan 07 12:40	18° ≈ 58′25		retrograde	15084 Dec 18 06:40	28° る 34'17	
evening set	15084 Jan 12 18:23	17° ≈ 58'13		evening set	15084 Dec 22 05:35	28° පි 00'10	
min. Earth dist.	15084 Jan 18 08:07	15° ≈ 07'50	0.55895 AU	min. Earth dist.	15084 Dec 29 14:41	24° る 37'36	0.54735 AU
inferior conj	15084 Jan 20 14:53	13° ≈ 43'04	-5°23'55	inferior conj	15084 Dec 30 14:32	24° る 03'47	-6°00'00
minimum elong	15084 Jan 20 22:59	13° ≈ 30'30	5°21'37	minimum elong	15084 Dec 30 15:41	24° る 02'09	5°59'03
morning rise	15084 Jan 29 05:37	9° ≈ 41'09		morning rise	15085 Jan 08 03:06	20°る15'29	
direct	15084 Jan 31 13:25	9° ≈ 26'43		direct	15085 Jan 11 04:24	19° ප 54'01	

	15005 I 22 10:07	250=220147	21905127		15005 D 10 21-20	2005.7	
morning max el	15085 Jan 22 19:07	25° ♂ 28'47	21°05'26	1: 4	15085 Dec 18 21:20	30°₹ ⋌ ¹	
asc. node	15085 Jan 26 08:33	29° る 23'08		direct	15085 Dec 22 11:34	29° メ 32'00 0°る	
	15085 Jan 26 20:19	0°≈ 27°≈ ≈17'0€			15085 Dec 25 23:50	5°る48'51	22947155
morning set	15085 Feb 11 09:39 15085 Feb 12 16:52	27°≈17'06 0°) €		morning max el asc. node	15086 Jan 04 10:36	16° る 39'46	22-47-55
	15085 Feb 12 16:52	υ π		asc. node	15086 Jan 13 05:50	0°≈	
superior conj	15085 Feb 18 17:48	12°) 37′20	1°11'10	morning set	15086 Jan 20 23:21 15086 Jan 26 20:54	0°≈ 12°≈01'36	
minimum elong	15085 Feb 18 20:21	12 X 57 20 12° X 50′28	1°11'13	morning set	15000 Jan 20 20.54	12 ≈01 30	
max. Earth dist.	15085 Feb 23 14:59	22°\f27'40	1.35407 AU	superior conj	15086 Feb 02 19:59	26° ≈ 59'54	1°26'25
evening rise	15085 Feb 27 14:36	0° Υ 05'47	1.55407 AO	minimum elong	15086 Feb 02 21:56	20 ≈3734 27°≈10'20	
desc. node	15085 Feb 27 22:21	0° Υ 41'52		minimum clong	15086 Feb 04 05:51	0° ₩	1 2031
dese. node	15085 Feb 27 13:22	0° Υ		max. Earth dist.	15086 Feb 06 06:52	1 1 1	1.33607 AU
	15085 Mar 17 14:18	0°8		evening rise	15086 Feb 10 20:37	13° ¥ 30'33	1.55007 110
evening max el	15085 Apr 03 22:48	21° 8 43'06	26°23'43	desc. node	15086 Feb 14 18:55	20°) 59'47	
retrograde	15085 Apr 16 21:29	29° 8 05'16	20 23 .3	dose. node	15086 Feb 19 20:02	0°Υ	
evening set	15085 Apr 23 04:32	26° 8 33'10			15086 Mar 12 12:53	0°8	
asc. node	15085 Apr 24 05:11	25° 8 38'56		evening max el	15086 Mar 17 12:17	5° 8 18'24	27°11'57
min. Earth dist.	15085 Apr 27 06:34	22° 8 19'46	0.66830 AU	retrograde	15086 Mar 31 00:38	12° 8 48'55	
inferior conj	15085 Apr 29 02:48	20° 8 05'11	1°27'38	evening set	15086 Apr 06 15:45	10° 8 17'51	
minimum elong	15085 Apr 29 00:53	20° 8 11'01	1°26'19	min. Earth dist.	15086 Apr 10 13:03	6° 8 37'07	0.65220 AU
morning rise	15085 May 04 22:13	14° 8 22'58		asc. node	15086 Apr 11 02:33	6° 8 00'04	
direct	15085 May 08 01:23	13° 8 27'47		inferior conj	15086 Apr 12 21:40	3° 8 59'03	0°33'40
morning max el	15085 May 14 13:02	16° 8 54'08	18°27'27	minimum elong	15086 Apr 12 20:46	4° 8 01'35	0°32'51
	15085 May 24 12:41	0°II			15086 Apr 16 20:34	30°RƳ	
desc. node	15085 May 27 00:01	3° Ⅱ 47'00		morning rise	15086 Apr 19 03:32	28° Y ′29'42	
morning set	15085 Jun 04 03:39	16° Ⅲ 34'41		direct	15086 Apr 21 21:08	27° Y ′49'58	
	15085 Jun 12 16:30	0°©			15086 Apr 26 22:57	0°8	
				morning max el	15086 Apr 28 04:45	1° 8 06'35	17°58'14
superior conj	15085 Jun 19 23:08	11° 5 21'58	-2°10'07	desc. node	15086 May 13 20:51	23° 8 52'28	
minimum elong	15085 Jun 19 18:27	11° 5 03'41	2°10'56	morning set	15086 May 16 04:17	27° 8 40'02	
max. Earth dist.	15085 Jun 20 04:28	11° © 42'44	1.45933 AU	S	15086 May 17 14:24	0°II	
	15085 Jul 01 21:14	$0^{\circ}\Omega$,		
evening rise	15085 Jul 05 19:15	6° Ω 09'38		superior conj	15086 May 30 11:59	20° Ⅱ 47'15	-1°48'34
greatest brilliancy	15085 Jul 14 16:50	20° Ω 07′22	-0.8m	minimum elong	15086 May 30 03:11	20° Ⅲ 12′28	1°48'45
asc. node	15085 Jul 21 04:12	29° Ω 48'42		max. Earth dist.	15086 Jun 03 00:21	26° Ⅱ 19'06	1.45683 AU
	15085 Jul 21 07:24	0° m y			15086 Jun 05 08:54	0°9	
evening max el	15085 Jul 27 16:33	7° m 52'55	18°47'58	evening rise	15086 Jun 15 13:32	15° 5 °45'26	
retrograde	15085 Aug 03 08:08	11° Mp 30'26			15086 Jun 24 21:51	0 $^{\circ}\Omega$	
evening set	15085 Aug 06 16:01	10° m 26'47		greatest brilliancy	15086 Jun 29 06:46	6° Ω 30′25	-0.7m
inferior conj	15085 Aug 12 05:50	4° M 44'46	2°41'18	asc. node	15086 Jul 08 00:59	18° Ω 27'43	
minimum elong	15085 Aug 12 07:50	4° m 38'29	2°40'23	evening max el	15086 Jul 10 23:44	21° Ω 43′25	19°35'57
min. Earth dist.	15085 Aug 14 00:53	2° m 30'05	0.66157 AU	retrograde	15086 Jul 18 06:07	25° Ω 47'49	
	15085 Aug 16 04:50	30° ₽ Ω		evening set	15086 Jul 21 23:44	24° Ω 26′56	
morning rise	15085 Aug 17 22:44	28° Ω 19'16		inferior conj	15086 Jul 27 08:10	18° Ω 31'54	3°01'55
desc. node	15085 Aug 22 21:57	25° Ω 47'20		minimum elong	15086 Jul 27 09:20	18° Ω 27'59	3°01'04
direct	15085 Aug 24 05:18	25° Ω 40'53		min. Earth dist.	15086 Jul 28 13:03	16° Ω 55'52	0.67577 AU
	15085 Sep 02 13:29	0° m		morning rise	15086 Aug 01 18:25	12° Ω 06′29	
morning max el	15085 Sep 06 06:45	~	26°33'51	direct	15086 Aug 07 15:06	9° Ω 33'09	
	15085 Sep 26 11:08	0∘ ত		desc. node	15086 Aug 09 19:24	9° Ω 51'27	
morning set	15085 Oct 12 03:01	26° ≏ 51'26		morning max el	15086 Aug 19 17:41	16° Ω 48'20	25°16'51
	15085 Oct 13 18:35	0°M₊			15086 Aug 30 17:24	0° ™	
max. Earth dist.	15085 Oct 16 02:09	4° ጤ 31'15	1.34357 AU		15086 Sep 19 09:53	0∘ ত	
asc. node	15085 Oct 17 06:05	6° ™ 50′18		morning set	15086 Sep 24 15:01	9° ≏ 05'21	
				max. Earth dist.	15086 Sep 28 04:22	15° ≏ 35'28	1.36434 AU
superior conj	15085 Oct 21 00:41	14°M32'51	0°34'24	asc. node	15086 Oct 04 02:42	26° ≏ 59'21	
minimum elong	15085 Oct 20 22:56	14°M23'48	0°34'42				
evening rise	15085 Oct 28 10:15	0° ∡ 107'51		superior conj	15086 Oct 04 14:34	27° Ω 58'10	0°04'33
	15085 Oct 28 08:45	0° ∡ ¹		minimum elong	15086 Oct 04 14:16	27° £ 56'39	0°04'52
	15085 Nov 14 19:00	0°る	21000110	behind sun begin	15086 Oct 04 08:08	27° £ 26'17	
evening max el	15085 Nov 16 21:42	2°る15'55	21°09'48	behind sun end	15086 Oct 04 20:23	28° £ 27'05	
desc. node	15085 Nov 18 18:38	3°る58'22			15086 Oct 05 15:00	0°M	
retrograde	15085 Nov 28 17:13	8°る07'22		evening rise	15086 Oct 12 16:11	14°M20'00	
evening set	15085 Dec 01 09:52	7°る50'21	5025110		15086 Oct 20 18:53	0° ₹ ¹	10050125
inferior conj	15085 Dec 10 05:30	3°る58'24		evening max el	15086 Oct 30 03:05	13°×707'17	19°50'37
minimum elong	15085 Dec 09 21:55	4°る09'07		desc. node	15086 Nov 05 15:52	17° х 33'39	
min. Earth dist.	15085 Dec 10 20:17	3° る 37'29	0.54447 AU	retrograde	15086 Nov 09 07:28	18° ∡ 12'00	
morning rise	15085 Dec 18 10:20	0° る 07'23		evening set	15086 Nov 11 07:29	18° ∡ '01'09	

inferior conj	15086 Nov 20 02:25	14° ₹ 00'44	-4°19'49	minimum elong	15087 Oct 31 10:32	24°M50'16	2°32'24
minimum elong	15086 Nov 19 16:29	14° ∤ 16'01	4°15'53	min. Earth dist.	15087 Nov 03 16:10	22°M32'59	0.56582 AU
min. Earth dist.	15086 Nov 22 03:56	12° ∡ ⁴44'35	0.55105 AU	morning rise	15087 Nov 08 07:26	19° M 50'55	
morning rise	15086 Nov 28 00:01	9° ∡ ¹47'43		direct	15087 Nov 14 03:15	18°MJ30'12	
direct	15086 Dec 03 00:55	8° × 751'53		morning max el	15087 Nov 28 07:10	25°M47'57	26°15'49
morning max el	15086 Dec 16 19:34	15° ∡ ′43'11	24°37'34	· ·	15087 Dec 02 06:14	0° ∡ ¹	
morning man vi	15086 Dec 28 03:46	0°ප	2.373.	asc. node	15087 Dec 18 00:09	23° х 39'45	
asc. node	15086 Dec 31 03:02	4° ろ 49'49		use. Hode	15087 Dec 21 08:07	0°る	
		4 04949 26° る 44'06				11°る19'28	
morning set	15087 Jan 11 08:51			morning set	15087 Dec 26 19:43	11-01928	
	15087 Jan 12 21:03	0° ≈				_	
				superior conj	15088 Jan 02 13:53		1°37'58
superior conj	15087 Jan 18 03:26	11° ≈ 34'37	1°35'16	minimum elong	15088 Jan 02 13:49	26° る 14'12	1°38'54
minimum elong	15087 Jan 18 04:26	11° ≈ 40′08	1°36'02	max. Earth dist.	15088 Jan 03 12:00	28° る 17'42	1.31402 AU
max. Earth dist.	15087 Jan 20 06:29	16° ≈ 13′06	1.32253 AU		15088 Jan 04 06:26	0° ≈	
evening rise	15087 Jan 25 13:14	27° ≈ 20'46		evening rise	15088 Jan 09 13:38	11° ≈ 28'51	
•	15087 Jan 26 20:46	0° \			15088 Jan 19 01:47	0° ₩	
desc. node	15087 Feb 01 15:32	11°) €03'32		desc. node	15088 Jan 19 12:13	0°) 46′22	
dose. Hode	15087 Feb 13 02:40	0°Υ		dese. node	15088 Feb 09 07:31	0°Υ	
avanina may al	15087 Feb 28 00:30	18° Y ′29'27	27024122	arranina may al	15088 Feb 10 08:55	1° Υ 02'01	27°25'18
evening max el			27 34 33	evening max el		8° Y 22'49	27 23 18
retrograde	15087 Mar 13 20:46	25° Y 58'15		retrograde	15088 Feb 24 08:24		
evening set	15087 Mar 20 16:32	23° Y 35'25		evening set	15088 Mar 02 03:54	6° Y 15'34	
min. Earth dist.	15087 Mar 24 11:06	20° Y 23′20	0.63277 AU	min. Earth dist.	15088 Mar 05 23:04	3° Y 25'42	0.61114 AU
inferior conj	15087 Mar 27 06:39	17° Ƴ 33'47	-0°33'10	inferior conj	15088 Mar 09 02:17	0° Ƴ 39'21	-1°52'17
minimum elong	15087 Mar 27 07:43	17° Ƴ 31'05	0°32'56	minimum elong	15088 Mar 09 06:20	0° Ƴ 30′21	1°50'34
asc. node	15087 Mar 28 23:57	15° Ƴ 52'24			15088 Mar 09 20:07	30° ₹ ₩	
morning rise	15087 Apr 03 01:30	12° Ƴ 19'39		asc. node	15088 Mar 14 21:25	26° ∺ 21'42	
direct	15087 Apr 05 10:54	11° Y ′52'00		morning rise	15088 Mar 16 11:57	25°) 43′29	
morning max el	15087 Apr 11 22:28	15° Y 10'20	17°46'24	direct	15088 Mar 18 15:04	25°) 24'19	
morning man vi	15087 Apr 22 10:19	0°8	1, 1021	morning max el	15088 Mar 25 14:55		17°52'39
morning set	*	10° 8 00'30		morning max cr	15088 Mar 26 15:51	0°Υ	17 3237
morning set	15087 Apr 28 07:05	_		. ,			
desc. node	15087 Apr 30 17:36	14° 8 11'53		morning set	15088 Apr 10 06:09	23° Y 17'05	
	15087 May 10 03:03	Π $^{\circ}$ 0			15088 Apr 13 23:30	0° 8	
		_		desc. node	15088 Apr 16 14:16	4° 8 39'51	
superior conj	15087 May 10 18:55	1° Ⅱ 05'07					
minimum elong	15087 May 10 11:48	0° Ⅲ 35'54	1°14'07	superior conj	15088 Apr 21 01:28	12° 8 28'03	
max. Earth dist.	15087 May 16 18:52	10° Ⅱ 46′08	1.44721 AU	minimum elong	15088 Apr 20 22:15	12° 8 14'12	0°35'33
evening rise	15087 May 26 00:20	25° Ⅱ 10′26		max. Earth dist.	15088 Apr 28 09:56	24° 8 48'06	1.43137 AU
	15087 May 29 04:17	0 \circ \odot			15088 May 01 15:02	Π°	
	15087 Jun 19 03:20	$0^{\circ}\Omega$		evening rise	15088 May 04 19:47	5° Ⅱ 04'15	
evening max el	15087 Jun 24 01:07	5° Ω 35'49	20°38'29		15088 May 21 11:48	0 \circ \odot	
asc. node	15087 Jun 24 21:51	6° Ω 25'57		evening max el	15088 Jun 05 20:49	19° 5 28'14	21°52'19
retrograde	15087 Jul 02 05:05	10° Ω 17'15		asc. node	15088 Jun 10 18:50	23°929'46	
evening set	15087 Jul 06 09:11	8° Ω 38'54		retrograde	15088 Jun 15 03:19	24°953'17	
inferior conj	15087 Jul 11 15:06	2°Ω32'04	3°09'47	evening set	15088 Jun 19 18:30	22°958'09	
		$2^{\circ}\Omega_{32'04}$ $2^{\circ}\Omega_{31'23}$	3°08'54	-		16°9541'01	3°06'25
minimum elong	15087 Jul 11 15:18			inferior conj	15088 Jun 25 00:28		
min. Earth dist.	15087 Jul 12 06:11	1° Ω 40'07	0.68541 AU	minimum elong	15088 Jun 24 23:44	16°5543'38	3°05'24
	15087 Jul 13 11:49	30° ₹ 5		min. Earth dist.	15088 Jun 25 02:12	16° © 34'58	0.69017 AU
morning rise	15087 Jul 16 21:08	26° © 10'32		morning rise	15088 Jun 30 04:46	10° © 25'40	
direct	15087 Jul 22 06:13	23° 5 49'18		direct	15088 Jul 05 01:24	8° 5 21'24	
desc. node	15087 Jul 27 16:48	25° © 43'06		desc. node	15088 Jul 13 14:07	12° © 57'01	
	15087 Aug 01 20:02	$0^{\circ}\Omega$		morning max el	15088 Jul 14 16:41	14° © 01'28	22°20'28
morning max el	15087 Aug 02 04:17	0° Ω 20'40	23°49'17		15088 Jul 27 13:55	$0^{\circ}\Omega$	
	15005 1 01 10 51	0° m)			15000 A 16 12 11	0° m)	
morning set	15087 Aug 24 13:54	V III			15088 Aug 16 12:11	V III	
	•	-		morning set	•	0° Mp 48'10	
max. Earth dist.	15087 Sep 06 07:17	20° m/27'00	1.38787 AU	morning set max. Earth dist.	15088 Aug 17 00:08		1.41143 AU
•	15087 Sep 06 07:17 15087 Sep 10 02:39	20° m/27'00 27° m/02'08	1.38787 AU	•	•	0° Mp 48'10	1.41143 AU
•	15087 Sep 06 07:17	20° m/27'00	1.38787 AU	max. Earth dist.	15088 Aug 17 00:08 15088 Aug 22 03:38	0° m/48'10 9° m/16'51	
max. Earth dist.	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45	20° m/27′00 27° m/02′08 0° <u>Ω</u>		max. Earth dist.	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41	0° m, 48'10 9° m, 16'51 22° m, 50'24	-1°05'44
max. Earth dist.	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39	20° № 27'00 27° № 02'08 0° Ω 10° Ω 47'16	-0°29'38	max. Earth dist.	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27	-1°05'44
max. Earth dist. superior conj minimum elong	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46	20° M 27'00 27° M 02'08 0° Ω 10° Ω 47'16 10° Ω 57'14	-0°29'38	max. Earth dist. superior conj minimum elong	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω	-1°05'44
max. Earth dist. superior conj minimum elong asc. node	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17	20° M 27'00 27° M 02'08 0° Ω 10° Ω47'16 10° Ω57'14 17° Ω07'28	-0°29'38	max. Earth dist. superior conj minimum elong asc. node	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12	-1°05'44
max. Earth dist. superior conj minimum elong	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57	20° m/27'00 27° m/02'08 0° Ω 10° Ω47'16 10° Ω57'14 17° Ω07'28 28° Ω14'50	-0°29'38	max. Earth dist. superior conj minimum elong	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω 11'12 11° Ω 44'04	-1°05'44
max. Earth dist. superior conj minimum elong asc. node evening rise	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57 15087 Sep 27 13:28	20° M27'00 27° M02'08 0° Ω 10° Ω47'16 10° Ω57'14 17° Ω07'28 28° Ω14'50 0° M	-0°29'38 0°29'10	max. Earth dist. superior conj minimum elong asc. node evening rise	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15 15088 Sep 19 14:01	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12 11° Ω44'04 0° M	-1°05'44 1°05'11
max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57 15087 Sep 27 13:28 15087 Oct 12 22:29	20° M 27'00 27° M 02'08 0° Ω 10° Ω 47'16 10° Ω 57'14 17° Ω 07'28 28° Ω 14'50 0° M 24° M 48'48	-0°29'38	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15 15088 Sep 19 14:01 15088 Sep 25 04:26	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12 11° Ω44'04 0° m 7° m/14'37	-1°05'44
max. Earth dist. superior conj minimum elong asc. node evening rise	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57 15087 Sep 27 13:28	20° m27'00 27° m02'08 0° Ω 10° Ω47'16 10° Ω57'14 17° Ω07'28 28° Ω14'50 0° M 24° M48'48 29° M09'19	-0°29'38 0°29'10	max. Earth dist. superior conj minimum elong asc. node evening rise	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15 15088 Sep 19 14:01	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12 11° Ω44'04 0° m 7° m/14'37 11° m/01'49	-1°05'44 1°05'11
max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57 15087 Sep 27 13:28 15087 Oct 12 22:29	20° M 27'00 27° M 02'08 0° Ω 10° Ω 47'16 10° Ω 57'14 17° Ω 07'28 28° Ω 14'50 0° M 24° M 48'48	-0°29'38 0°29'10	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15 15088 Sep 19 14:01 15088 Sep 25 04:26	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12 11° Ω44'04 0° m 7° m/14'37	-1°05'44 1°05'11
max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57 15087 Sep 27 13:28 15087 Oct 12 22:29 15087 Oct 21 13:23	20° m27'00 27° m02'08 0° Ω 10° Ω47'16 10° Ω57'14 17° Ω07'28 28° Ω14'50 0° M 24° M48'48 29° M09'19	-0°29'38 0°29'10	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15 15088 Sep 19 14:01 15088 Sep 25 04:26 15088 Oct 02 14:58	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12 11° Ω44'04 0° m 7° m/14'37 11° m/01'49	-1°05'44 1°05'11
max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde evening set	15087 Sep 06 07:17 15087 Sep 10 02:39 15087 Sep 11 18:45 15087 Sep 17 15:39 15087 Sep 17 17:46 15087 Sep 20 23:17 15087 Sep 26 15:57 15087 Sep 27 13:28 15087 Oct 12 22:29 15087 Oct 21 13:23 15087 Oct 23 10:41	20° m27'00 27° m02'08 0° Ω 10° Ω47'16 10° Ω57'14 17° Ω07'28 28° Ω14'50 0° m 24° m48'48 29° m09'19 28° M.57'39	-0°29'38 0°29'10 18°53'26	max. Earth dist. superior conj minimum elong asc. node evening rise evening max el retrograde evening set	15088 Aug 17 00:08 15088 Aug 22 03:38 15088 Aug 29 23:41 15088 Aug 30 04:51 15088 Sep 02 22:42 15088 Sep 06 19:53 15088 Sep 09 06:15 15088 Sep 19 14:01 15088 Sep 25 04:26 15088 Oct 02 14:58 15088 Oct 04 16:45	0° m/48'10 9° m/16'51 22° m/50'24 23° m/13'27 0° Ω 7° Ω11'12 11° Ω44'04 0° m 7° m.14'37 11° m.01'49 10° m.44'49	-1°05'44 1°05'11 18°17'59

minimum elong	15088 Oct 12 03:27	6° ™ 08'44	0°51'50	evening set	15089 Sep 17 18:35	23° ≏ 14'51	
min. Earth dist.	15088 Oct 12 03:27 15088 Oct 15 11:52	3°M22'35	0.58607 AU	inferior conj	15089 Sep 17 18:33 15089 Sep 24 14:04	18° £ 14'42	0°32'20
morning rise	15088 Oct 15 11:32 15088 Oct 19 10:42	0°M40'04	0.38007 AU	minimum elong	15089 Sep 24 14:04 15089 Sep 24 15:04	18° 2 12'18	0°32'10
morning rise		0 IIC40 04 30°Ŗ Ω		desc. node	-	16° £ 33'14	0 32 10
Ji	15088 Oct 20 18:48			min. Earth dist.	15089 Sep 26 08:04		0.60882 AU
direct	15088 Oct 25 19:20	28° Ω 52'41			15089 Sep 27 16:55	15° £ 15'59	0.00882 AU
	15088 Oct 30 23:37	0°M	27025120	morning rise	15089 Oct 01 08:33	12° £ 20'45	
morning max el	15088 Nov 09 02:34	6°M31'47	21°25'29	direct	15089 Oct 07 23:49	10° ⊆ 09'00	27057112
1	15088 Nov 26 15:29	0° 🔏 50103		morning max el	15089 Oct 22 05:39	18° ഫ 03'30	27°57'13
asc. node	15088 Dec 03 21:10	12° 🗷 59'03			15089 Nov 01 06:20	0°M	
morning set	15088 Dec 10 03:46	25° ∡ '43'29			15089 Nov 19 09:38	0° ∕ 7 20. 7 30040	
	15088 Dec 12 03:23	0°₹		asc. node	15089 Nov 20 18:05	2° × ⁷ 38'48	
	15000 D 17 01 26	100=54122	1024141	morning set	15089 Nov 24 07:00	9° × 750'17	1 21200 ATT
superior conj	15088 Dec 17 01:26	10°る54'33	1°34'41	max. Earth dist.	15089 Nov 30 02:46	22° ∡ 23′22	1.31280 AU
minimum elong	15088 Dec 17 00:22	10°る48'32			15000 D 01 12 00	250 720020	1025120
max. Earth dist.	15088 Dec 16 20:05	10°る24'37	1.31074 AU	superior conj	15089 Dec 01 12:09	25° 🗷 28'29	1°25'28
evening rise	15088 Dec 23 19:32	25° ⋜ 49'23		minimum elong	15089 Dec 01 10:17	25° х 18′04	1°26'13
	15088 Dec 25 18:56	0° ≈			15089 Dec 03 12:54	0°る	
desc. node	15089 Jan 05 09:00	20°≈00'23		evening rise	15089 Dec 08 04:48	10°る16'24	
	15089 Jan 11 19:09	0°) (+ 415°	26044104		15089 Dec 18 02:38	0° ≈	
evening max el	15089 Jan 22 10:42	12°) (44'59	26°41'01	desc. node	15089 Dec 23 05:51	8°≈34'01	25024125
retrograde	15089 Feb 05 10:18	19°) ₹55'24		evening max el	15090 Jan 04 03:59	23° ≈ 34'41	25°24'27
evening set	15089 Feb 11 22:29	18°) 10′33			15090 Jan 14 06:05	0°) {	
min. Earth dist.	15089 Feb 16 00:24	15°) € 32'42	0.58899 AU	retrograde	15090 Jan 18 00:55	0°) 33′18	
inferior conj	15089 Feb 19 04:50	13°) €05'51			15090 Jan 21 19:54	30°R≈	
minimum elong	15089 Feb 19 12:16	12°) €51'31	3°16'32	evening set	15090 Jan 23 20:28	29°≈16'16	
morning rise	15089 Feb 27 05:22	8°) (31′09		min. Earth dist.	15090 Jan 28 16:27	26°≈35'25	0.56861 AU
direct	15089 Mar 01 05:13	8° ¥ 16'58		inferior conj	15090 Jan 31 11:08	24°≈44'12	
asc. node	15089 Mar 01 18:52	8°) 18'10	10010114	minimum elong	15090 Jan 31 20:19	24°≈28'50	4°41'06
morning max el	15089 Mar 09 02:31	12°) 11'10	18°18'14	morning rise	15090 Feb 08 22:54	20°≈31'17	
. ,	15089 Mar 20 23:22	0°Υ 7°Υ12'28		direct	15090 Feb 11 01:02	20°≈18'23	
morning set	15089 Mar 24 19:42	/* Y 12/28		asc. node	15090 Feb 16 16:18	21°≈59'02	10005105
	15000 4 02 06.12	24° Ƴ 51'19	0°01'37	morning max el	15090 Feb 20 05:10	24°≈46'40 0°) €	19°05'05
superior conj minimum elong	15089 Apr 03 06:12 15089 Apr 03 06:18	24 γ 51 19 24° γ 51'45	0°01'16	morning set	15090 Feb 24 14:30 15090 Mar 08 19:14	0 X 21° ¥ 33'21	
behind sun begin	15089 Apr 03 00.18 15089 Apr 02 22:56	24 γ 31 43 24° Υ 18'16	0 01 10	morning set	15090 Mar 13 01:38	21 γ (3321 0° γ	
behind sun end	15089 Apr 03 13:39	25° Y 25'09			13090 Wai 13 01.36	0 1	
desc. node	15089 Apr 03 10:52	25° Υ 12'31		superior conj	15090 Mar 17 04:52	8° Υ '02'52	0°33'41
dese. Hode	15089 Apr 06 02:59	0°8		minimum elong	15090 Mar 17 04:52	8° Υ 12'24	0°33'18
max. Earth dist.	15089 Apr 10 20:07		1.41098 AU	desc. node	15090 Mar 21 07:26	15° Υ 46'16	0 33 10
evening rise	15089 Apr 15 09:57	15° 8 49'09	1.11070710	max. Earth dist.	15090 Mar 24 02:29	20° Υ 50'48	1.38833 AU
e vennig 1150	15089 Apr 24 09:43	0°Ⅱ		evening rise	15090 Mar 27 21:20	27° Y ′29'19	1.50055110
	15089 May 16 09:07	0 . ಹ		evening rise	15090 Mar 29 08:39	0°8	
evening max el	15089 May 19 12:22	3°520'54	23°12'41		15090 Apr 17 21:39	0°II	
asc. node	15089 May 28 15:55	9°\$22'25	23 12 11	evening max el	15090 May 02 02:00	17° Ⅱ 14'58	24°33'25
retrograde	15089 May 29 23:22	9°\$29'59		retrograde	15090 May 13 16:02	24° I I01'33	2.3320
evening set	15089 Jun 04 02:02	7° © 20'01		asc. node	15090 May 15 13:05	23° II 46'23	
inferior conj	15089 Jun 09 10:16	0°954'44	2°52'33	evening set	15090 May 19 06:11	21° II 39'45	
minimum elong	15089 Jun 09 08:44	1°500'03	2°51'20	min. Earth dist.	15090 May 23 18:35	16° Ⅲ 30'04	0.68512 AU
min. Earth dist.	15089 Jun 08 23:01	1° © 33'37	0.69004 AU	inferior conj	15090 May 24 18:37	15° Ⅱ 09'38	2°28'18
	15089 Jun 10 02:09	30°RⅡ		minimum elong	15090 May 24 16:34	15° Ⅱ 16'31	
morning rise	15089 Jun 14 15:22	24° ∏ 46'56		morning rise	15090 May 30 03:07	9° Ⅱ 10'33	2 200.
direct	15089 Jun 18 23:32	23° I I02'15		direct	15090 Jun 02 23:22	7° Ⅱ 45'57	
morning max el	15089 Jun 27 09:48	27° I 52'13	20°57'59	morning max el	15090 Jun 10 09:45	11° Ⅱ 54'00	19°47'25
8	15089 Jun 29 10:11	0.ಪ		desc. node	15090 Jun 17 08:27	20° Ⅱ 11'11	
desc. node	15089 Jun 30 11:21	1° © 11'43			15090 Jun 24 06:51	0ಂತಾ	
	15089 Jul 21 02:35	$0^{\circ}\Omega$		morning set	15090 Jul 06 21:07	18° © 59'10	
morning set	15089 Jul 27 17:32	10° Ω 09'53		•	15090 Jul 13 23:49	$0^{\circ}\Omega$	
max. Earth dist.	15089 Aug 04 10:30	22° Ω 24′10	1.43227 AU	max. Earth dist.	15090 Jul 17 23:28		1.44811 AU
	15089 Aug 09 01:35	0° m)					
				superior conj	15090 Jul 22 21:20	14° Ω 06′12	-2°04'47
superior conj	15089 Aug 11 10:16	3° Mp 57'28	-1°39'36	minimum elong	15090 Jul 23 03:35	14° Ω 31'25	2°05'11
minimum elong	15089 Aug 11 17:45	4° ١) 29'01	1°39'18		15090 Aug 01 13:35	0° m	
evening rise	15089 Aug 23 06:41	24°M 35'51		evening rise	15090 Aug 05 12:09	6° ™ 37'50	
asc. node	15089 Aug 24 16:28	27° Mp 06'05		asc. node	15090 Aug 11 13:04	16°M)48'12	
	15089 Aug 26 07:40	0∘ ⊽			15090 Aug 20 03:44	0∘ ⊽	
evening max el	15089 Sep 08 16:39	20° £ 14'05	18°02'42	evening max el	15090 Aug 23 07:20	3° ჲ 38′26	18°06'17
retrograde	15089 Sep 15 09:23	23° ≏ 41'08		retrograde	15090 Aug 29 16:21	6° ჲ 58'49	

ovening set	15090 Sep 01 09:59	6° ₽ 19'53		evening max el	15091 Aug 06 21:07	17° m) 18'30	18°27'50
evening set inferior conj	15090 Sep 07 05:39	1° £ 01'59	1°37'12	retrograde	15091 Aug 00 21:07 15091 Aug 13 07:40	20° m) 45'39	16 2/ 30
minimum elong	15090 Sep 07 15:11 15090 Sep 07 17:26	0° £ 55'52	1°36'24	evening set	15091 Aug 15 07.40 15091 Aug 16 10:18	19° m) 51'25	
minimum elong	-	30°RM)	1 30 24	-	•	-•	2°22'44
: E 4 E 4	15090 Sep 08 13:54	•	0.62127.411	inferior conj	15091 Aug 22 04:44	14° Mp 17'47	
min. Earth dist.	15090 Sep 10 07:49	28° Mp 07'26	0.63137 AU	minimum elong	15091 Aug 22 07:02	14° Mp 10'53	2°21'49
desc. node	15090 Sep 13 05:32	25° m/22'52		min. Earth dist.	15091 Aug 24 07:58	11° m/44'54	0.65160 AU
morning rise	15090 Sep 13 22:45	24° m 49'03		morning rise	15091 Aug 28 02:29	7° m 55'02	
direct	15090 Sep 20 14:38	22° Mp 19'41		desc. node	15091 Aug 31 03:01	6° m 00'58	
	15090 Oct 04 05:53	0∘ ⊽		direct	15091 Sep 03 13:42	5° m 17'19	
morning max el	15090 Oct 04 13:56	0° ჲ 19'58	27°50'08	morning max el	15091 Sep 17 00:44	13° mp 11'02	27°09'24
	15090 Oct 26 08:05	0° M ₊			15091 Sep 30 14:35	0∘ ⊽	
asc. node	15090 Nov 07 14:54	22°M33'00			15091 Oct 18 22:55	0° M	
morning set	15090 Nov 08 03:11	23°M34'48		morning set	15091 Oct 22 13:38	6°M50'43	
	15090 Nov 11 05:56	0° ∡ ¹		asc. node	15091 Oct 25 11:38	12°M36'32	
max. Earth dist.	15090 Nov 13 04:11	4° ∡ ¹05'17	1.32044 AU	max. Earth dist.	15091 Oct 26 21:16	15°M26'58	1.33364 AU
							
superior conj	15090 Nov 15 20:09	9° ∡ ′51′28	1°10'18	superior conj	15091 Oct 30 23:15	23°M57'47	0°49'12
minimum elong	15090 Nov 15 17:51	9° ∡ 38'54	1°10'50	minimum elong	15091 Oct 30 21:06	23°M46'19	0°49'33
evening rise	15090 Nov 22 15:37	24° ∡ ¹45'49			15091 Nov 02 19:02	0° ∡ ¹	
	15090 Nov 25 02:45	0°ಕ		evening rise	15091 Nov 07 02:11	9° ∡ 13'10	
desc. node	15090 Dec 10 02:48	26° る 12'42			15091 Nov 17 19:23	0°ರ	
	15090 Dec 13 02:50	0° ≈		desc. node	15091 Nov 26 23:51	12° る 36'51	
evening max el	15090 Dec 16 14:38	3° ≈ 43′50	23°46'22	evening max el	15091 Nov 28 01:54	13° る 43'05	22°04'00
retrograde	15090 Dec 30 02:17	10° ≈ 25′21		retrograde	15091 Dec 10 15:37	19° る 56'22	
evening set	15091 Jan 03 19:18	9° ≈ 37'14		evening set	15091 Dec 14 00:50	19° る 30'59	
min. Earth dist.	15091 Jan 10 01:53	6° ≈ 35'13	0.55303 AU	inferior conj	15091 Dec 22 15:14	15° る 38'43	-5°58'03
inferior conj	15091 Jan 11 20:46	5° ≈ 31'41	-5°45'30	minimum elong	15091 Dec 22 12:19	15° る 42'47	5°56'55
minimum elong	15091 Jan 12 02:39	5° ≈ 22'58	5°43'57	min. Earth dist.	15091 Dec 22 07:42	15° る 49'14	0.54501 AU
morning rise	15091 Jan 20 11:38	1° ≈ 36′36		morning rise	15091 Dec 31 00:43	11° る 51'30	
direct	15091 Jan 23 01:28	1° ≈ 20'03		direct	15092 Jan 03 12:07	11° る 24'45	
morning max el	15091 Feb 02 18:48	6° ≈ 30'19	20°14'53	morning max el	15092 Jan 15 17:31	17° ප 18'10	21°47'05
asc. node	15091 Feb 03 13:42	7° ≈ 17'35		asc. node	15092 Jan 21 11:02	23° る 56'55	
	15091 Feb 18 00:03	0° ₩			15092 Jan 25 12:11	0° ≈	
morning set	15091 Feb 21 01:18	6° ₩ 09'31		morning set	15092 Feb 05 11:20	20°≈53'35	
S				Č	15092 Feb 09 18:22	0°) €	
superior conj	15091 Feb 28 17:02	21° ¥ 50′01	0°59'23				
minimum elong	15091 Feb 28 19:38	22° ₭ 03'09	0°59'14	superior conj	15092 Feb 12 15:02	6°){ 02'44	1°18'26
Č	15091 Mar 04 20:21	$0^{\circ}\Upsilon$		minimum elong	15092 Feb 12 17:23	6°) 15′05	1°18'39
max. Earth dist.	15091 Mar 06 09:17	2° Y 56'48	1.36595 AU	max. Earth dist.	15092 Feb 16 21:25		1.34597 AU
desc. node	15091 Mar 08 03:56	6° Y 17'06		evening rise	15092 Feb 21 02:36	23°) €05'20	
evening rise	15091 Mar 10 04:01	9° Ƴ 57'49		desc. node	15092 Feb 23 00:29	26°) (41'25	
e vennig 115e	15091 Mar 22 00:49	0°8		dese. Hode	15092 Feb 24 19:44	0°Υ	
	15091 Apr 13 12:30	0°II			15092 Mar 14 17:01	0°8	
evening max el	15091 Apr 14 15:33	1° Ⅱ 07'57	25°47'23	evening max el	15092 Mar 27 05:28	14° 8 53'22	26°46'59
retrograde	15091 Apr 27 04:05	8° Ц 20'28	23 47 23	retrograde	15092 Apr 09 10:32	22° 8 19'36	20 40 37
asc. node	15091 May 02 10:20	6° Ⅱ 28'00		evening set	15092 Apr 15 21:19	19° 8 47'25	
evening set	15091 May 02 10:20 15091 May 03 05:13	5° П 50'59		asc. node	•	_	
min. Earth dist.					15007 Apr 19 07/-/0		
iiiii. Eartii tiist.	15001 Mov 07 10:44	1° ∏ 17'11	0.67565 ATT		15092 Apr 18 07:40	17° 8 31'57	0.66105 ATT
	15091 May 07 10:44	1° Ⅱ 17'14	0.67565 AU	min. Earth dist.	15092 Apr 19 21:17	15° 8 48'09	0.66195 AU
inforior coni	15091 May 08 11:08	30° ₹ 8		min. Earth dist. inferior conj	15092 Apr 19 21:17 15092 Apr 21 22:46	15° 8 48'09 13° 8 22'39	1°06'21
inferior conj	15091 May 08 11:08 15091 May 08 23:30	30°R と 29° と 20'35	1°53'10	min. Earth dist. inferior conj minimum elong	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11	15° 8 48'09 13° 8 22'39 13° 8 27'21	
minimum elong	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22	30°R と 29° と 20'35 29° と 27'22		min. Earth dist. inferior conj minimum elong morning rise	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16	15°848'09 13°822'39 13°827'21 7°845'26	1°06'21
minimum elong morning rise	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07	30°R 8 29° 8 20'35 29° 8 27'22 23° 8 31'33	1°53'10	min. Earth dist. inferior conj minimum elong morning rise direct	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01	1°06'21 1°05'10
minimum elong morning rise direct	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18	30°R8 29°820'35 29°827'22 23°831'33 22°826'06	1°53'10 1°51'44	min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08	15°\dash(09) 13°\dash(22'39) 13°\dash(27'21) 7°\dash(5'26) 6°\dash(5'7'01) 10°\dash(17'34)	1°06'21
minimum elong morning rise	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54	30°R& 29°&20'35 29°&27'22 23°&31'33 22°&26'06 26°&03'58	1°53'10	min. Earth dist. inferior conj minimum elong morning rise direct	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18	15°\dash(39) 13°\dash(22'39) 13°\dash(27'21) 7°\dash(5'26) 6°\dash(5'7'01) 10°\dash(17'34) 29°\dash(38'02)	1°06'21 1°05'10
minimum elong morning rise direct morning max el	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅱ	1°53'10 1°51'44	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50	15°\delta48'09 13°\delta22'39 13°\delta27'21 7°\delta45'26 6°\delta57'01 10°\delta17'34 29°\delta38'02 0°\delta	1°06'21 1°05'10
minimum elong morning rise direct morning max el desc. node	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅲ 9°Ⅲ42'49	1°53'10 1°51'44 18°51'54	min. Earth dist. inferior conj minimum elong morning rise direct morning max el	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°Ⅲ 8°Ⅲ28'30	1°06'21 1°05'10
minimum elong morning rise direct morning max el desc. node greatest brilliancy	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅲ 9°Ⅲ42'49 14°Ⅲ18'38	1°53'10 1°51'44	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50	15°\delta48'09 13°\delta22'39 13°\delta27'21 7°\delta45'26 6°\delta57'01 10°\delta17'34 29°\delta38'02 0°\delta	1°06'21 1°05'10
minimum elong morning rise direct morning max el desc. node	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°∏ 9°∏42'49 14°∏18'38 28°∏09'27	1°53'10 1°51'44 18°51'54	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°用 8°用28'30 0°9	1°06'21 1°05'10 18°12'55
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 17 10:59	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°8'03'58 0°II 9°II42'49 14°II18'38 28°II09'27 0°€	1°53'10 1°51'44 18°51'54 -0.8m	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45	15°\delta48'09 13°\delta22'39 13°\delta27'21 7°\delta45'26 6°\delta57'01 10°\delta17'34 29°\delta38'02 0°\Pi 8°\Pi28'30 0°\delta 2°\delta38'23	1°06'21 1°05'10 18°12'55 -2°03'03
minimum elong morning rise direct morning max el desc. node greatest brilliancy	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°∏ 9°∏42'49 14°∏18'38 28°∏09'27	1°53'10 1°51'44 18°51'54	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°Ⅲ 8°Ⅲ28'30 0°9 2°938'23 2°9310'10	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 17 10:59 15091 Jun 30 17:15	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°II 9°II42'49 14°II18'38 28°II09'27 0°\$ 20°\$38'26	1°53'10 1°51'44 18°51'54 -0.8m	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°11 8°1128'30 0°5 2°538'23 2°510'10 5°516'25	1°06'21 1°05'10 18°12'55 -2°03'03
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 30 17:15	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅲ 9°Ⅲ42'49 14°Ⅲ18'38 28°Ⅲ09'27 0°\$ 20°\$38'26	1°53'10 1°51'44 18°51'54 -0.8m 1.45738 AU -2°13'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41 15092 Jun 26 23:03	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°11 8°1128'30 0°9 2°938'23 2°910'10 5°916'25 27°939'18	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 17 10:59 15091 Jun 30 17:15	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°II 9°II42'49 14°II18'38 28°II09'27 0°\$ 20°\$38'26 23°\$28'09 23°\$27'24	1°53'10 1°51'44 18°51'54 -0.8m 1.45738 AU -2°13'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°11 8°1128'30 0°55 2°538'23 2°510'10 5°516'25 27°539'18 0°\$	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 30 17:15	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅲ 9°Ⅲ42'49 14°Ⅲ18'38 28°Ⅲ09'27 0°© 20°©38'26 23°©28'09 23°©27'24 0°Ω	1°53'10 1°51'44 18°51'54 -0.8m 1.45738 AU -2°13'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist.	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41 15092 Jun 26 23:03	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°11 8°1128'30 0°55 2°538'23 2°510'10 5°516'25 27°539'18 0°0 14°047'18	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 30 17:15 15091 Jul 02 12:38 15091 Jul 02 12:38	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°II 9°II42'49 14°II18'38 28°II09'27 0°\$ 20°\$38'26 23°\$28'09 23°\$27'24	1°53'10 1°51'44 18°51'54 -0.8m 1.45738 AU -2°13'58	min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set superior conj minimum elong max. Earth dist. evening rise	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41 15092 Jun 26 23:03 15092 Jun 28 11:17	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°11 8°1128'30 0°55 2°538'23 2°510'10 5°516'25 27°539'18 0°\$	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37 1.45924 AU
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 17 10:59 15091 Jun 30 17:15 15091 Jul 02 12:38 15091 Jul 02 12:38 15091 Jul 06 16:21	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅲ 9°Ⅲ42'49 14°Ⅲ18'38 28°Ⅲ09'27 0°© 20°©38'26 23°©28'09 23°©27'24 0°Ω	1°53'10 1°51'44 18°51'54 -0.8m 1.45738 AU -2°13'58	min. Earth dist. 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	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41 15092 Jun 26 23:03 15092 Jun 28 11:17 15092 Jul 08 01:47	15°848'09 13°822'39 13°827'21 7°845'26 6°857'01 10°817'34 29°838'02 0°11 8°1128'30 0°55 2°538'23 2°510'10 5°516'25 27°539'18 0°0 14°047'18	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37 1.45924 AU
minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	15091 May 08 11:08 15091 May 08 23:30 15091 May 08 21:22 15091 May 14 14:07 15091 May 17 23:18 15091 May 24 16:54 15091 May 28 05:11 15091 Jun 04 05:25 15091 Jun 07 06:53 15091 Jun 16 06:29 15091 Jun 17 10:59 15091 Jun 30 17:15 15091 Jul 02 12:38 15091 Jul 02 12:38 15091 Jul 06 16:21 15091 Jul 06 16:21 15091 Jul 17 17:47	30°R8 29°820'35 29°827'22 23°831'33 22°826'06 26°803'58 0°Ⅲ 9°Ⅲ42'49 14°Ⅲ18'38 28°Ⅲ09'27 0°\$ 20°\$38'26 23°\$28'09 23°\$27'24 0°\$ 17°\$38'20	1°53'10 1°51'44 18°51'54 -0.8m 1.45738 AU -2°13'58	min. Earth dist. 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	15092 Apr 19 21:17 15092 Apr 21 22:46 15092 Apr 21 21:11 15092 Apr 27 22:16 15092 Apr 30 21:20 15092 May 07 06:08 15092 May 21 02:18 15092 May 21 07:50 15092 May 26 14:59 15092 Jun 09 04:45 15092 Jun 10 21:13 15092 Jun 10 14:00 15092 Jun 12 13:41 15092 Jun 26 23:03 15092 Jun 28 11:17 15092 Jul 08 01:47 15092 Jul 15 06:26	15° 848'09 13° 822'39 13° 827'21 7° 845'26 6° 857'01 10° 817'34 29° 838'02 0° II 8° II 28'30 0° 9 2° 938'23 2° 910'10 5° 916'25 27° 939'18 0° \(\Omega\) 14° \(\Omega\) 47'18 25° \(\Omega\) 09'10	1°06'21 1°05'10 18°12'55 -2°03'03 2°03'37 1.45924 AU

max. Earth dist.

15093 May 26 09:40

15093 Jun 01 21:31

19°**I**52'14 1.45357 AU

0ಂತಾ

15094 May 06 13:02

15094 May 09 02:35

max. Earth dist.

 $0^{\circ}\Pi$

4°**I**109'05 1.44107 AU

		—					
evening rise	15094 May 17 00:45	16° Ⅱ 37'47		max. Earth dist.	15095 Apr 21 15:11	17° 8 54'38	1.42311 AU
	15094 May 25 20:30	0		evening rise	15095 Apr 27 03:30	26° 8 52'44	
evening max el	15094 Jun 16 10:42	28° © 50'08	21°08'47		15095 Apr 29 02:48	Π $^{\circ}0$	
	15094 Jun 17 15:52	$0^{\circ}\Omega$			15095 May 19 14:13	0 \circ \odot	
asc. node	15094 Jun 19 00:10	1° Ω 09′20		evening max el	15095 May 30 04:26	12° © 43'01	22°26'04
retrograde	15094 Jun 25 01:45	3° Ω 50′18		asc. node	15095 Jun 05 21:12	17°5545'21	
evening set	15094 Jun 29 10:24	2° Ω 04'44		retrograde	15095 Jun 08 23:12	18° © 27'17	
3	15094 Jul 01 12:36	30°Rூ		evening set	15095 Jun 13 19:08	16°925'50	
inferior conj	15094 Jul 04 16:02	25°953'08	3°09'41	inferior conj	15095 Jun 19 01:49	10°904'58	3°01'48
·				3			
minimum elong	15094 Jul 04 15:49	25°\$53'52	3°08'46	minimum elong	15095 Jun 19 00:43	10°508'50	3°00'42
min. Earth dist.	15094 Jul 05 01:23	25° © 20'37	0.68794 AU	min. Earth dist.	15095 Jun 18 22:05	10° © 17'59	0.69072 AU
morning rise	15094 Jul 09 20:59	19° © 33'46		morning rise	15095 Jun 24 06:08	3° © 52'27	
direct	15094 Jul 15 00:43	17° © 19'20		direct	15095 Jun 28 21:28	1° © 56'06	
desc. node	15094 Jul 21 19:19	20° © 14'57		morning max el	15095 Jul 07 23:55	7° © 14'27	21°44'06
morning max el	15094 Jul 25 10:01	23°930'07	23°11'12	desc. node	15095 Jul 08 16:35	7°\$57'00	
•	15094 Jul 31 03:56	$0^{\circ}\Omega$			15095 Jul 25 13:33	$0^{\circ}\Omega$	
	15094 Aug 21 06:09	0° m)		morning set	15095 Aug 09 04:06	22° Ω 14'09	
morning set	15094 Aug 28 21:48	12° Mp 20'15		morning sec	15095 Aug 13 23:40	0°m	
•	-	-	1 20700 ATT	E 4 E 4	_	~	1 42001 ATT
max. Earth dist.	15094 Sep 02 03:13	19° m 29'15	1.39798 AU	max. Earth dist.	15095 Aug 15 05:56	2° Mp 04'21	1.42081 AU
	15094 Sep 08 01:56	0∘ ⊽					
				superior conj	15095 Aug 22 21:27	15° Mp 01'58	
superior conj	15094 Sep 09 22:07	3° ≏ 21'55	-0°44'54	minimum elong	15095 Aug 23 03:49	15° m 29'41	1°20'13
minimum elong	15094 Sep 10 01:30	3° ₽ 37'29	0°44'23		15095 Aug 31 06:30	0∘ ত	
asc. node	15094 Sep 15 01:28	13° ഫ 00'33		asc. node	15095 Sep 01 22:01	3° ჲ 00'43	
evening rise	15094 Sep 19 10:23	21° ≏ 24'01		evening rise	15095 Sep 02 19:16	4° £ 38'05	
	15094 Sep 23 23:08	0°M			15095 Sep 18 18:38	0°M	
evening max el	15094 Oct 05 10:52	17°M22'09	18°35'51	evening max el	15095 Sep 18 10:50 15095 Sep 18 20:01	0°M03'27	1.000000
•			10 33 31	•			18 09 09
retrograde	15094 Oct 13 12:34	21°M26'56		retrograde	15095 Sep 25 21:30	3°M39'57	
evening set	15094 Oct 15 11:06	21°M13'35		evening set	15095 Sep 28 02:22	3° ™ 19′23	
desc. node	15094 Oct 17 15:43	20°M28'45			15095 Oct 03 14:02	30° Ŗ Ω	
inferior conj	15094 Oct 23 10:11	16° ™ 46'07	-1°50'51	desc. node	15095 Oct 04 13:08	29° ♀ 10'54	
minimum elong	15094 Oct 23 05:44	16°M54'35	1°48'25	inferior conj	15095 Oct 05 07:29	28° ≏ 30'37	-0°14'28
min. Earth dist.	15094 Oct 26 14:14	14°M22'26	0.57391 AU	minimum elong	15095 Oct 05 07:00	28° ≏ 31'42	0°13'54
morning rise	15094 Oct 30 20:57	11° M 41'54		transit middle	15095 Oct 05 07:00	28° £ 31'42	0°13'54
direct	15094 Nov 05 22:59	10°ML09'32		transit begin	15095 Oct 05 05:16	28° £ 35'33	0 130.
	15094 Nov 20 05:06	17°M37'58	26°49'37	transit end	15095 Oct 05 08:44	28° ⊆ 27'52	
morning max el			20 49 3 /				0.50565.411
_	15094 Nov 30 11:49	0° ∡ 7		min. Earth dist.	15095 Oct 08 13:36	25° △ 38'52	0.59565 AU
asc. node	15094 Dec 12 02:33	19° ∡ 10′22		morning rise	15095 Oct 12 08:19	22° ≏ 52'43	
	15094 Dec 17 13:50	0°ಕ		direct	15095 Oct 18 20:50	20° ≏ 54'07	
morning set	15094 Dec 19 20:47	4° る 50'04		morning max el	15095 Nov 02 03:37	28° ≏ 40'23	27°43'50
					15095 Nov 03 11:07	0° M	
superior conj	15094 Dec 26 15:57	19° る 50'30	1°37'19		15095 Nov 24 08:40	0° ∡ ¹	
minimum elong	15094 Dec 26 15:27	19° ප් 47'41	1°38'14	asc. node	15095 Nov 28 23:30	8° ≯ 38'58	
max. Earth dist.	15094 Dec 27 02:13	20°る47'54	1.31193 AU	morning set	15095 Dec 04 02:58	19° ∡ 06'57	
max. Earth dist.	15094 Dec 31 05:59	0°≈	1.511/5/10	morning sec	15095 Dec 09 03:10	0° る	
				E 4 E 4			1 21002 ATT
evening rise	15095 Jan 02 12:45	4°≈54'40		max. Earth dist.	15095 Dec 10 10:03	2° る 51'53	1.31092 AU
desc. node	15095 Jan 13 14:26	26° ≈ 21'38				_	
	15095 Jan 15 17:48	0° ∀		superior conj	15095 Dec 11 03:21	4° る 28'31	1°31'30
evening max el	15095 Feb 02 11:11	23°) €28'04	27°10'47	minimum elong	15095 Dec 11 01:54	4° る 20'25	1°32'22
	15095 Feb 12 05:20	0° Y		evening rise	15095 Dec 17 20:17	19° る 18'38	
retrograde	15095 Feb 16 11:30	0° Ƴ 45'22			15095 Dec 22 24:00	0° ≈	
_	15095 Feb 20 14:55	30° ₹		desc. node	15095 Dec 31 11:14	15° ≈ 20'01	
evening set	15095 Feb 23 04:38	28°) 46′56			15096 Jan 10 20:59	0°) €	
min. Earth dist.	15095 Feb 27 01:38	26° ∺ 03'29	0.60160 AU	evening max el	15096 Jan 15 09:41	4° ¥ 49'11	26°12'00
		23° H 23'10		•		11°) 54'17	20 12 09
inferior conj	15095 Mar 02 06:23			retrograde	15096 Jan 29 08:45		
minimum elong	15095 Mar 02 11:53	23°) 11'37	2°26'24	evening set	15096 Feb 04 14:55	10° ∺ 21'13	
morning rise	15095 Mar 09 22:33	18° ¥ 36′05		min. Earth dist.	15096 Feb 08 23:02	7°) 43′55	
asc. node	15095 Mar 09 24:00	18°) ₹35′08		inferior conj	15096 Feb 12 00:40	5°) 30′42	
direct	15095 Mar 11 23:36	18° ¥ 19′36		minimum elong	15096 Feb 12 09:14	5° ∺ 15′09	3°53'29
morning max el	15095 Mar 19 07:40	21° ¥ 59′27	18°01'01	morning rise	15096 Feb 20 06:38	1°) €04'56	
-	15095 Mar 25 11:44	0° Υ		direct	15096 Feb 22 06:35	0°) 51'46	
morning set	15095 Apr 03 21:20	16° Y ′29'23		asc. node	15096 Feb 24 21:28	1° ¥ 15'36	
morning sec	15095 Apr 03 21:20 15095 Apr 11 06:34	0° 8		morning max el	15096 Mar 01 15:56	4°) €59'34	18°35'20
dono 15 - 4 -	-			morning max er			10 33 20
desc. node	15095 Apr 11 16:26	0° 8 44'17			15096 Mar 17 07:53	0°Υ 0° Υ 3.7122	
				morning set	15096 Mar 17 15:38	0° Ƴ 37'22	
superior conj	15095 Apr 14 01:43	4° 8 58'42					
minimum elong	15095 Apr 14 00:04	4° 8 51'24	0°19'31	superior conj	15096 Mar 26 14:36	17° Ƴ 43'51	0°15'55

minimum elong	15096 Mar 26 15:41	17° Ƴ 48'50	0°15'32	superior conj	15097 Mar 09 19:32	1° Ƴ 11'58	0°45'22
behind sun begin	15096 Mar 26 14:08	17° Υ '41'38	0 13 32	minimum elong	15097 Mar 09 21:55	1° Υ 23'39	0°45'05
behind sun end	15096 Mar 26 17:13	17° Y ′56'02		desc. node	15097 Mar 15 09:31	11° Y ′50'30	
desc. node	15096 Mar 28 12:59	21° Y °17'41		max. Earth dist.	15097 Mar 16 06:04	13° Y °25'08	1.37872 AU
	15096 Apr 02 09:53	0°B		evening rise	15097 Mar 19 22:44	20° Y ′03′26	
max. Earth dist.	15096 Apr 02 23:38	0° 8 59'50	1.40155 AU	<i>8</i>	15097 Mar 25 18:50	0°8	
evening rise	15096 Apr 07 02:47	8° 8 01'56			15097 Apr 15 04:47	0°II	
Ü	15096 Apr 21 02:56	0°II		evening max el	15097 Apr 24 08:32	10° Ⅱ 30′52	25°06'03
evening max el	15096 May 11 19:04	26° Ⅲ 36'57	23°47'23	retrograde	15097 May 06 08:29	17° Ⅱ 29'24	
Ü	15096 May 15 14:39	0°©		asc. node	15097 May 09 15:34	16° Ⅱ 43'36	
retrograde	15096 May 22 17:47	3° © 02'23		evening set	15097 May 12 03:34	15° Ⅱ 03'34	
asc. node	15096 May 22 18:20	3° © 02'22		min. Earth dist.	15097 May 16 12:49	10° Ⅱ 09'36	0.68173 AU
evening set	15096 May 28 01:23	0°9547'06		inferior conj	15097 May 17 18:20	8° Ⅱ 32'52	
Ü	15096 May 28 21:38	30°R Ⅱ		minimum elong	15097 May 17 16:11	8° Ⅱ 39'56	2°13'19
inferior conj	15096 Jun 02 11:13	24° Ⅱ 19'34	2°43'32	morning rise	15097 May 23 05:08	2° Ⅱ 38′09	
minimum elong	15096 Jun 02 09:25	24° Ⅲ 25'43	2°42'15	direct	15097 May 26 20:36	1° Ⅱ 21'54	
min. Earth dist.	15096 Jun 01 18:36	25° Ⅱ 16'24	0.68861 AU	morning max el	15097 Jun 02 22:47	5° Ⅱ 15'08	19°21'49
morning rise	15096 Jun 07 17:27	18° Ⅱ 15'21		desc. node	15097 Jun 11 10:47	15° ∏ 46'14	
direct	15096 Jun 11 20:34	16° Ⅲ 39'02		greatest brilliancy	15097 Jun 15 14:38	21° II 46'59	-0.7m
morning max el	15096 Jun 19 19:38	21° I I09'22	20°26'12	greatest orimaney	15097 Jun 21 02:07	0°95	0.7111
desc. node	15096 Jun 24 13:44	26° I I32'11	20 20 12	morning set	15097 Jun 27 17:07	10° © 07'36	
dese. Hode	15096 Jun 27 06:07	0°95		max. Earth dist.	15097 Jul 10 07:40	29°9542'05	1.45295 AU
	15096 Jul 17 17:50	0°€		max. Earth dist.	15097 Jul 10 07:40	29 3 42 03	1.43293 AU
mamina aat	15096 Jul 17 17:30 15096 Jul 18 13:41	1° Ω 16'32			1309/Jul 10 12.13	0 86	
morning set max. Earth dist.		15°Ω33'33	1 42001 ATT	aumorior aoni	15007 Iul 12 22:27	5° Ω 29'26	2011100
max. Earth dist.	15096 Jul 27 15:52	15-8633.33	1.43981 AU	superior conj	15097 Jul 13 23:37		
	15006 1 00 00 01	250 0 4 400	1051110	minimum elong	15097 Jul 14 03:42	5° Ω 45'36	2°11'43
superior conj	15096 Aug 02 22:04	25° Ω 44'09		evening rise	15097 Jul 28 08:03	28° Ω 47'05	
minimum elong	15096 Aug 03 05:38	26° Ω 15′26	1°51'45		15097 Jul 29 01:41	0° m)	
	15096 Aug 05 11:37	0° m		asc. node	15097 Aug 05 15:14	12° m 25'38	
evening rise	15096 Aug 15 12:15	17° m) 10'12		evening max el	15097 Aug 16 00:20	26° Mp 46'13	18°13'15
asc. node	15096 Aug 18 18:37	22° m 50'50			15097 Aug 21 03:31	0∘ ত	
	15096 Aug 22 23:15	0∘ ⊽		retrograde	15097 Aug 22 08:58	0° 亚 08'08	
evening max el	15096 Sep 01 09:43	13° ≏ 14'43	18°01'58		15097 Aug 23 14:18	30°R, Mp	
retrograde	15096 Sep 07 21:50	16° ≏ 37'08		evening set	15097 Aug 25 06:21	29° m 22'57	
evening set	15096 Sep 10 10:39	16° ≏ 05'41		inferior conj	15097 Aug 31 06:29	23° m 57'50	1°58'46
inferior conj	15096 Sep 16 23:36	10° ≙ 57'26	1°02'24	minimum elong	15097 Aug 31 08:52	23° m 51'03	1°57'51
minimum elong	15096 Sep 17 01:19	10° ≙ 53'05	1°01'52	min. Earth dist.	15097 Sep 02 17:31	21° m 10'49	0.64031 AU
min. Earth dist.	15096 Sep 19 22:35	7° ≏ 58'24	0.61860 AU	morning rise	15097 Sep 06 09:40	17° m 39'32	
desc. node	15096 Sep 20 10:36	7° ₽ 29'40		desc. node	15097 Sep 07 08:05	16° M 58'41	
morning rise	15096 Sep 23 13:24	4° ♀ 54'25		direct	15097 Sep 12 23:56	15° M 05'46	
direct	15096 Sep 30 05:38	2° ₽ 34'25		morning max el	15097 Sep 26 19:03	23° Mg 05'00	27°36'36
morning max el	15096 Oct 14 09:09	10° ≏ 31'45	27°58'52		15097 Oct 02 22:49	0∘ ত	
	15096 Oct 29 15:15	0° M			15097 Oct 22 22:21	0° M	
asc. node	15096 Nov 14 20:21	28°M25'32		morning set	15097 Oct 31 19:52	16° M 37'45	
	15096 Nov 15 15:12	0° ∡ ¹		asc. node	15097 Nov 01 17:07	18°M23'56	
morning set	15096 Nov 17 03:29	3° ∡ ¹04'55		max. Earth dist.	15097 Nov 05 13:30	26° M ₊19'23	1.32540 AU
max. Earth dist.	15096 Nov 22 15:07	14° ∡ ¹45'25	1.31538 AU		15097 Nov 07 07:07	0° ∡ ¹	
superior conj	15096 Nov 24 13:08	18° ∡ 58′25	1°19'45	superior conj	15097 Nov 08 19:17	3° ∡ 14'22	1°02'04
minimum elong	15096 Nov 24 11:01	18° ∡ ¹46'45	1°20'26	minimum elong	15097 Nov 08 16:58	3° ∡ 01'49	1°02'31
_	15096 Nov 29 12:42	0° ට		evening rise	15097 Nov 15 17:22	18° ∡ 16'10	
evening rise	15096 Dec 01 06:26	3°₹47'32		C	15097 Nov 21 09:44	0°ರ	
Ü	15096 Dec 15 00:39	0° ≈		desc. node	15097 Dec 04 05:08	20° ප් 41'52	
desc. node	15096 Dec 17 08:08	3° ≈ 32'33		evening max el	15097 Dec 08 09:09	25° ප 17'56	23°02'09
evening max el	15096 Dec 26 23:44	15° ≈ 19'20	24°44'29	3	15097 Dec 14 15:16	0° ≈	
retrograde	15097 Jan 09 17:21	22°≈10'58		retrograde	15097 Dec 21 13:14	1° ≈ 49'48	
evening set	15097 Jan 15 03:04	21°≈06'19		evening set	15097 Dec 25 16:54	1°≈12'18	
min. Earth dist.	15097 Jan 20 11:34	18° ≈ 19'07	0.56127 AU	3. J	15097 Dec 28 20:26	1 ~12 10 30°Rる	
inferior conj	15097 Jan 22 21:57	16° ≈ 47'10		min. Earth dist.	15097 Dec 28 20.20 15098 Jan 01 18:45	•	0.54853 AU
minimum elong	15097 Jan 22 21.37 15097 Jan 23 06:33		5°11'59	inferior conj	15098 Jan 02 23:51	27° る 13'54	
morning rise	15097 Jan 23 06.33	10 ≈33 30 12°≈42'40	J 11 J7	minimum elong	15098 Jan 02 25.31 15098 Jan 03 02:23	27° ろ 10'17	
•				_	15098 Jan 03 02:23 15098 Jan 11 13:17	27°610°17 23° 6 24'20	5 5/05
direct	15097 Feb 02 18:17	12°≈28'47		morning rise			
asc. node	15097 Feb 10 18:52	15°≈39'36	10021152	direct	15098 Jan 14 11:14	23° る 04'26	20051146
morning max el	15097 Feb 12 13:24	17°≈13'46	19°31'53	morning max el	15098 Jan 25 20:41	28° る 32'57	2013146
	15097 Feb 21 19:49	0°) €			15098 Jan 27 06:54	0°≈	
morning set	15097 Mar 01 18:20	15°) €06'04		asc. node	15098 Jan 28 16:12	1°≈34'06	
	15097 Mar 09 04:52	0° Y		morning set	15098 Feb 14 02:23	29° ≈ 46′10	

	15098 Feb 14 05:03	0°) €		asc. node	15099 Jan 15 13:30	18° ප් 41'27	
	15000 F 1 21 12 10	1501/11110	1000116		15099 Jan 22 07:59	0° ≈	
superior conj	15098 Feb 21 12:19			morning set	15099 Jan 29 13:22	14° ≈ 30'32	
minimum elong	15098 Feb 21 14:54	15°) €24'27	1°08'16		15000 F 1 05 12 20	200 - 21121	100420
max. Earth dist.	15098 Feb 26 14:29		1.35700 AU	superior conj	15099 Feb 05 13:30	29° ≈ 31'21	1°24'32
	15098 Mar 01 00:25	0°Υ 2° Ω 10101		minimum elong	15099 Feb 05 15:34	29° ≈ 42'22	1°24'54
desc. node	15098 Mar 02 06:04	2° Υ 19'01		E d E	15099 Feb 05 18:53	0°) {	1 22045 444
evening rise	15098 Mar 02 12:35	2° Y 49'17		max. Earth dist.	15099 Feb 09 05:15	7°) €11'10	1.33845 AU
	15098 Mar 18 18:39	0°8	2 (21 1152	evening rise	15099 Feb 13 16:47	16°) €09'51	
evening max el	15098 Apr 06 22:03	24° 8 21'06	26°14'52	desc. node	15099 Feb 17 02:38	22°) €38'44	
	15098 Apr 14 02:13	0°П			15099 Feb 21 04:40	0° Υ	
retrograde	15098 Apr 19 18:24	1° Ⅱ 41'31			15099 Mar 13 06:26	0°8	27006120
	15098 Apr 24 21:14	30° ₹ 8		evening max el	15099 Mar 20 11:45	7° 8 59'34	27°06'20
evening set	15098 Apr 25 23:58	29° 8 09'50		retrograde	15099 Apr 02 22:32	15° 8 29'28	
asc. node	15098 Apr 26 12:51	28° 8 42'12		evening set	15099 Apr 09 12:33	12° 8 57'59	
min. Earth dist.	15098 Apr 30 02:49	24° 8 51'15	0.67031 AU	asc. node	15099 Apr 13 10:14	9° 8 13'12	
inferior conj	15098 May 01 21:09	22° 8 40'55	1°34'48	min. Earth dist.	15099 Apr 13 10:29	9° 8 12'30	0.65479 AU
minimum elong	15098 May 01 19:09	22° 8 47'05	1°33'26	inferior conj	15099 Apr 15 17:16	6° 8 37'19	0°42'43
morning rise	15098 May 07 15:14	16° 8 56'54		minimum elong	15099 Apr 15 16:09	6° 8 40'30	0°41'48
direct	15098 May 10 19:54	15° 8 59'12		morning rise	15099 Apr 21 21:23	1° 8 05'47	
morning max el	15098 May 17 08:54	19° 8 28'15	18°33'16	direct	15099 Apr 24 16:21	0° 8 23'54	
	15098 May 25 16:00	Π °0		morning max el	15099 May 01 00:04	3° 8 41'18	18°01'31
desc. node	15098 May 29 07:44	5° Ⅱ 29'00		desc. node	15099 May 16 04:34	25° 8 32'03	
morning set	15098 Jun 07 10:59	19° ∏ 43'44			15099 May 18 22:18	Π °0	
	15098 Jun 14 00:12	0₀ ௐ		morning set	15099 May 19 07:28	0°Ⅱ37'21	
superior conj	15098 Jun 23 10:06	14° © 41'32	-2°11'48	superior conj	15099 Jun 02 21:22	24° ∏ 01'51	-1°52'52
minimum elong	15098 Jun 23 06:31		2°12'40	minimum elong	15099 Jun 02 12:47		1°53'08
max. Earth dist.	15098 Jun 23 02:41		1.45905 AU	max. Earth dist.	15099 Jun 05 22:46	28° II 49'54	1.45770 AU
max. Darm dist.	15098 Jul 03 04:49	0°Ω	1.13703710	max. Earth dist.	15099 Jun 06 16:42	0°95	1.13770710
evening rise	15098 Jul 09 03:04	9° Ω 21'25		evening rise	15099 Jun 18 23:50	19° © 02'45	
greatest brilliancy	15098 Jul 17 03:59	22°Ω03'08	-0.8m	evening rise	15099 Jun 26 03:25	0°Ω	
greatest offinancy	15098 Jul 22 08:45	0° m)	0.0111	greatest brilliancy	15099 Jul 02 02:19	8° Ω 57'08	-0.7m
asc. node	15098 Jul 23 11:57	1° mp 39'23		asc. node	15099 Jul 10 08:44	20°Ω23'47	0.7111
evening max el	15098 Jul 30 12:50	10° m/30'34	18°42'13	evening max el	15099 Jul 10 08:44 15099 Jul 13 20:54	$20^{\circ} \Omega 20'54$	19°27'50
retrograde	15098 Aug 06 02:55	14° m 05'03	10 42 15	retrograde	15099 Jul 21 00:32	28° Ω 20'18	1) 2/30
evening set	15098 Aug 09 09:23	13° m) 03'58		evening set	15099 Jul 24 16:42	27° Ω 01'59	
inferior conj	15098 Aug 15 00:18	7° m) 24'08	2°36'51	inferior conj	15099 Jul 30 01:45	21°Ω08'54	2°59'35
minimum elong	15098 Aug 15 00:18	7° m) 17'38	2°35'57	minimum elong	15099 Jul 30 03:04	21° Ω 04'32	
min. Earth dist.	15098 Aug 16 21:31	5° m) 04'18		min. Earth dist.	15099 Jul 31 08:44	$19^{\circ}\Omega 26'41$	0.67398 AU
morning rise	15098 Aug 10 21:31 15098 Aug 20 18:24	0° m 59'05	0.03712 AU	morning rise	15099 Aug 04 12:51	$19^{\circ}02041$ $14^{\circ}\Omega43'17$	0.07376 AC
morning risc	15098 Aug 20 16:24 15098 Aug 22 01:27	30°RΩ		direct	15099 Aug 10 11:13	12°Ω08'42	
desc. node	15098 Aug 25 05:35	28° Ω 33'32		desc. node	15099 Aug 10 11:13 15099 Aug 12 03:03	$12^{\circ}\Omega 19'18$	
direct	15098 Aug 27 02:16	$28^{\circ}\Omega 20'29$		morning max el	15099 Aug 22 17:27	$19^{\circ}\Omega 28'54$	25°29'10
direct	15098 Sep 01 15:51	0° m)		morning max cr	15099 Aug 31 16:42	0° m)	23 27 10
morning max el	15098 Sep 09 06:27	6° Mp 08'10	26943141		15099 Sep 20 18:13	0∘ ত الم	
morning max ci	15098 Sep 27 15:58	0∘ ⊽	20 43 41	morning set	15099 Sep 27 15:46	0 = 12° £ 00'06	
morning set	15098 Oct 15 01:11	ა _ 29° ჲ 39'08		max. Earth dist.	15099 Oct 01 05:46	18° ≏ 36'31	1.36103 AU
morning set	15098 Oct 15 01:11 15098 Oct 15 05:35	29 = 3908 0° ™		asc. node	15099 Oct 01 03:40 15099 Oct 06 10:28	28° ♀ 39'05	1.50105 AU
max. Earth dist.	15098 Oct 19 02:20	7°M32'25	1.34086 AU	asc. node	13077 Oct 00 10.20	20 = 37 03	
asc. node	15098 Oct 19 02.20 15098 Oct 19 13:49	8°M29'50	1.54000 AU	superior conj	15099 Oct 07 11:04	0° M 41'31	0°09'24
450. HOUC	13070 000 19 13.49	0 HG273U		minimum elong	15099 Oct 07 11:04 15099 Oct 07 10:29	0°M38'36	0°09'42
superior conj	15098 Oct 23 19:32	17° M .11'05	0°38'29	behind sun begin	15099 Oct 07 10:25 15099 Oct 07 05:25	0°M13'17	0 0742
minimum elong	15098 Oct 23 17:39	17°ML01'15		behind sun end	15099 Oct 07 05:23	1°M03'57	
mmmum ciong	15098 Oct 29 20:52	0° ∡ ¹	0 3041	ochina sun ena	15099 Oct 07 13:33 15099 Oct 07 02:45	0°M	
evening rise	15098 Oct 31 03:13	2° × ⁷ 40'26		evening rise	15099 Oct 07 02:43 15099 Oct 15 09:53	16°M55'05	
evening rise	15098 Nov 15 08:16	0°る		evening rise	15099 Oct 22 01:22	0° ∡ ⊓	
evening max el	15098 Nov 19 23:31	5° る 23'35	21°23'16	evening max el	15099 Nov 02 02:49	16° ∡ ¹08'33	20°01'03
desc. node	15098 Nov 19 25.31 15098 Nov 21 02:16	5 3 25 33 6° 3 26'32	21 2J 10	desc. node	15099 Nov 02 02.49 15099 Nov 07 23:30	10 x · 08 33 20° x 21′25	20 01 03
retrograde	15098 Nov 21 02:10 15098 Dec 02 00:11	11°る21'01		retrograde	15099 Nov 12 13:01	20 x 21 23 21° x 20'12	
evening set	15098 Dec 02 00.11 15098 Dec 04 20:41	11 3 2101		evening set	15099 Nov 12 13.01 15099 Nov 14 14:39	21°×'2012 21°×'08'53	
inferior conj	15098 Dec 04 20.41 15098 Dec 13 15:17	7°る10'45	-5°//120	inferior conj	15099 Nov 14 14.39 15099 Nov 23 10:33	21 x · 08 33 17° x 10′27	_/\°3/\'\\1
minimum elong	15098 Dec 13 15:17 15098 Dec 13 08:45	7° る 1043 7° る 19'58		minimum elong	15099 Nov 23 10:33 15099 Nov 23 00:28	17° x '10'27 17° x' 25'41	4°30'14
min. Earth dist.		6° ろ 57'52	0.54430 AU	mini. Earth dist.		1/° x '23'41 16° x '02'30	0.54953 AU
min. Earth dist.	15098 Dec 14 00:27 15098 Dec 21 21:18	3°る3/32	0.5 44 50 AU	morning rise	15099 Nov 25 07:32 15099 Dec 01 09:10	13°×'02'30	0.34733 AU
direct		2°る48'15		direct		13° x '02'02 12° x '09'32	
	15098 Dec 25 18:57	2°648'15 8° る 59'34	22021151		15099 Dec 06 06:55	12° x '09'32 18° x '55'51	24021127
morning max el	15099 Jan 07 13:52	0 03934	22 3131	morning max el	15099 Dec 19 23:11	10 X.22.21	24°21'27

	15099 Dec 29 03:15	0°ჳ		morning max el	15100 Dec 01 09:59	28°M.57'07	26002140
asc. node	15100 Jan 02 10:44	6° 云 44'52		morning max cr	15100 Dec 01 09:39	28 11 3 7 07	20 02 40
morning set	15100 Jan 02 10:44 15100 Jan 14 01:22	0 34432 29° る 14'05		asc. node	15100 Dec 02 11:51 15100 Dec 20 07:52	25° × ⁷ 29'30	
morning set	15100 Jan 14 09:54	0°≈		ase. Houe	15100 Dec 20 07:32 15100 Dec 22 17:49	0°₹	
	15100 3411 11 07.51	0 / 0 /		morning set	15100 Dec 29 12:31	0 3 13° る 50'55	
superior conj	15100 Jan 20 20:20	14° ≈ 04'55	1°34'20	morning sec	10100 200 27 12.51	15 00000	
minimum elong	15100 Jan 20 21:30	14° ≈ 11'17	1°35'02	superior conj	15101 Jan 05 06:28	28° る 44'24	1°37'57
max. Earth dist.	15100 Jan 23 04:00	19° ≈ 07'12	1.32429 AU	minimum elong	15101 Jan 05 06:34	28° る 44'58	1°38'51
evening rise	15100 Jan 28 08:03	29° ≈ 57'06		8	15101 Jan 05 20:04	0° ≈	
<i>8</i> 21	15100 Jan 28 08:38	0° ∀		max. Earth dist.	15101 Jan 06 08:52	1° ≈ 11'03	1.31500 AU
desc. node	15100 Feb 03 23:15	12°) 45′07		evening rise	15101 Jan 12 07:27	14° ≈ 02'45	
	15100 Feb 14 05:54	0° Υ		Č	15101 Jan 20 10:21	0°) €	
evening max el	15100 Mar 03 00:22	21° Y °15'07	27°33'03	desc. node	15101 Jan 21 19:55	2°) 31′28	
retrograde	15100 Mar 16 19:35	28° Ƴ 44'11			15101 Feb 09 15:24	0° Υ	
evening set	15100 Mar 23 14:59	26° Ƴ 19'45		evening max el	15101 Feb 13 09:24	3° Y ′53'37	27°28'44
min. Earth dist.	15100 Mar 27 09:52	23° Y 03'44	0.63586 AU	retrograde	15101 Feb 27 08:30	11° Y 15'49	
inferior conj	15100 Mar 30 03:54	20° Y 15′11	-0°22'12	evening set	15101 Mar 06 04:31	9° Y 05'40	
minimum elong	15100 Mar 30 04:37	20° Y 13′23	0°22'09	min. Earth dist.	15101 Mar 09 23:14	6° Y 13′11	0.61448 AU
asc. node	15100 Mar 31 07:38	19° Y 05'09		inferior conj	15101 Mar 13 01:42	3° Y 25'16	-1°39'37
morning rise	15100 Apr 05 20:39	14° Y 58'31		minimum elong	15101 Mar 13 05:16	3° Y 17'13	1°38'09
direct	15100 Apr 08 07:15	14° Y 29'13			15101 Mar 17 06:15	30° ₹ ₩	
morning max el	15100 Apr 14 17:37	17° Ƴ 46′27	17°47'04	asc. node	15101 Mar 18 05:05	29°) 24′27	
	15100 Apr 23 16:21	0° 8		morning rise	15101 Mar 20 09:08	28° ¥ 26′37	
morning set	15100 May 01 06:40	12° 8 47'21		direct	15101 Mar 22 13:04	28° ∺ 06′24	
desc. node	15100 May 03 01:21	15° 8 49'30			15101 Mar 27 14:30	$0^{\circ}\Upsilon$	
	15100 May 11 11:56	Π °0		morning max el	15101 Mar 29 10:28	1° Y ′34'32	17°50'33
				morning set	15101 Apr 14 03:02	25° Y 56'19	
superior conj	15100 May 14 00:58	4° Ⅱ 09'55	-1°19'54		15101 Apr 16 09:23	$0^{\circ}S$	
minimum elong	15100 May 13 17:21	3° Ⅱ 38′53	1°19'47	desc. node	15101 Apr 19 22:00	6° 8 16'13	
max. Earth dist.	15100 May 19 17:49	13° Ⅱ 19'44	1.44909 AU				
evening rise	15100 May 29 10:41	28° Ⅱ 26′24		superior conj	15101 Apr 25 03:57	15° 8 23'02	
	15100 May 30 11:10	0ංම		minimum elong	15101 Apr 25 00:08	15° 8 06'45	
	15100 Jun 20 01:04	0 ° Ω		max. Earth dist.	15101 May 02 09:30	_	1.43402 AU
evening max el	15100 Jun 26 23:10		20°28'21		15101 May 03 23:29	0°Щ	
asc. node	15100 Jun 27 05:36	8° Ω 28'57		evening rise	15101 May 09 03:56	8° Ⅱ 13'32	
retrograde	15100 Jul 04 23:28	12° Ω 48'19			15101 May 23 15:48	0° ©	
evening set	15100 Jul 09 02:01	11° Ω 12'24		evening max el	15101 Jun 09 19:34		21°40'46
inferior conj	15100 Jul 14 08:08	5° Ω 07'12	3°09'18	asc. node	15101 Jun 14 02:33	25°5642'03	
minimum elong	15100 Jul 14 08:29	5° Ω 06'00	3°08'27	retrograde	15101 Jun 18 21:57	27°523'48	
min. Earth dist.	15100 Jul 15 01:12	4° Ω 08'38	0.68428 AU	evening set	15101 Jun 23 11:27	25°931'00	2007120
	15100 Jul 18 08:19	30°R≌		inferior conj	15101 Jun 28 17:15	19°55'10	3°07'38
morning rise	15100 Jul 19 14:39	28°545'01		minimum elong	15101 Jun 28 16:38	19° © 17'17 19° © 02'23	3°06'38
direct desc. node	15100 Jul 25 01:30	26° © 21'44 27° © 56'17		min. Earth dist.	15101 Jun 28 20:54		0.68972 AU
desc. node	15100 Jul 30 00:28 15100 Aug 01 21:55	27 3 36 17 0° Ω		morning rise direct	15101 Jul 03 21:38 15101 Jul 08 20:05	12° © 58'45 10° © 51'52	
morning max el	15100 Aug 01 21:33 15100 Aug 05 04:02	3° Ω 00'04	24002140	desc. node	15101 Jul 16 21:48	10 3 51 32	
morning max cr	15100 Aug 05 04:02 15100 Aug 25 19:22	0°m)	24 02 40	morning max el	15101 Jul 18 16:04	16°939'57	22033131
morning set	15100 Aug 25 15:22 15100 Sep 09 11:16	23° m/30'08		morning max cr	15101 Jul 29 15:39	0°Ω	22 33 31
max. Earth dist.	15100 Sep 05 11:10 15100 Sep 13 04:25	29° m 58'51	1.38429 AU		15101 Aug 18 20:02	0° mp	
max. Dartii dist.	15100 Sep 13 04:41	0ಂ ರ	1.50 (2) 110	morning set	15101 Aug 21 07:46	4° m) 00'55	
	13100 Sep 13 01.11	~ —		max. Earth dist.	15101 Aug 26 04:44	12° mg 05'49	1.40801 AU
superior conj	15100 Sep 20 14:19	13° ≏ 36'37	-0°24'15			'4' ** '	
minimum elong	15100 Sep 20 16:01	13° ≏ 44'40		superior conj	15101 Sep 03 01:10	25° m/47'06	-1°00'18
asc. node	15100 Sep 23 07:04	18° ≏ 47'36		minimum elong	15101 Sep 03 05:52	26° m) 08'15	
evening rise	15100 Sep 29 10:47	0°M53'07		8	15101 Sep 05 08:56	0∘ ⊽	
8	15100 Sep 29 00:00	0° M ,		asc. node	15101 Sep 10 03:39	8° ჲ 52'09	
evening max el	15100 Oct 15 20:14	27° M 42'30	19°00'32	evening rise	15101 Sep 13 02:44	14° ≏ 26'49	
	15100 Oct 18 12:33	0° ∡ 7		U -	15101 Sep 21 16:42	0°M	
retrograde	15100 Oct 24 16:19	2° ∡ ′09'17		evening max el	15101 Sep 29 00:50	10°ML01'54	18°21'54
desc. node	15100 Oct 25 20:50	2° ∡ 04'44		retrograde	15101 Oct 06 15:01	13°M53'24	
evening set	15100 Oct 26 13:23	1° ∡ ′58′03		evening set	15101 Oct 08 15:48	13° M 37'30	
-	15100 Oct 31 09:25	30°RM₊		desc. node	15101 Oct 12 18:14	11° M 40'42	
inferior conj	15100 Nov 03 22:02	27°M42'05	-2°51'53	inferior conj	15101 Oct 16 07:12	9°M00'31	-1°07'56
minimum elong	15100 Nov 03 14:53	27°M54'29	2°48'24	minimum elong	15101 Oct 16 04:36	9° ™ 05'47	1°06'20
min. Earth dist.	15100 Nov 06 18:49	25°M43'10	0.56319 AU	min. Earth dist.	15101 Oct 19 13:22	6°M22'36	0.58282 AU
morning rise	15100 Nov 11 13:39	22°M59'48		morning rise	15101 Oct 23 13:56	3° M 40′56	
direct	15100 Nov 17 06:52	21°M43'09		direct	15101 Oct 29 20:58	1°M57'26	

nage	270
Dago	4/0

morning max el	15101 Nov 13 04:13	9°M34'05	27°17'22
	15101 Nov 28 19:48	0° ∡ ¹	
asc. node	15101 Dec 07 04:54	14° ∡ ⁴44'37	
morning set	15101 Dec 13 21:04	28° х 16′38	
	15101 Dec 14 16:21	ರ°0	
superior conj	15101 Dec 20 17:57	13° る 24'25	1°35'33
minimum elong	15101 Dec 20 17:01	13° る 19'13	1°36'29
max. Earth dist.	15101 Dec 20 16:42	13° る 17'27	1.31087 AU
evening rise	15101 Dec 27 12:37	28° පි 21'16	
	15101 Dec 28 07:10	0° ≈	
desc. node	15102 Jan 08 16:39	21° ≈ 50′07	
	15102 Jan 13 19:04	0°) €	