

superior conj	1899 Feb 27 15:28	8°♄51'17	-1°-48'-18	superior conj	1900 Feb 09 20:46	20°♁41'35	-2°-2'-13
minimum elong	1899 Feb 27 19:35	9°♄10'39	1°47'56	minimum elong	1900 Feb 09 23:03	20°♁51'45	2°02'09
evening rise	1899 Mar 08 20:42	26°♄36'47			1900 Feb 15 00:04	0°♄	
	1899 Mar 10 14:40	0°♄		evening rise	1900 Feb 20 05:52	9°♄44'21	
asc. node	1899 Mar 13 00:14	4°♄33'55		asc. node	1900 Feb 27 21:17	23°♄37'22	
evening max el	1899 Mar 25 04:08	22°♄54'41	18°45'24		1900 Mar 03 21:21	0°♄	
retrograde	1899 Apr 02 06:16	26°♄51'02		evening max el	1900 Mar 08 11:13	5°♄37'45	18°16'28
evening set	1899 Apr 04 12:05	26°♄34'02		retrograde	1900 Mar 15 13:22	9°♄09'58	
inferior conj	1899 Apr 12 08:17	22°♄12'29	2°08'54	evening set	1900 Mar 18 00:48	8°♄44'59	
minimum elong	1899 Apr 12 12:15	22°♄05'08	2°07'45	inferior conj	1900 Mar 25 03:20	4°♄02'04	3°08'30
min. Earth dist.	1899 Apr 15 15:48	19°♄46'32	0.57446 AU	minimum elong	1900 Mar 25 06:41	3°♄54'49	3°07'52
morning rise	1899 Apr 20 08:04	17°♄00'46		min. Earth dist.	1900 Mar 28 13:15	1°♄06'22	0.59499 AU
desc. node	1899 Apr 20 08:52	16°♄59'53			1900 Mar 29 23:07	30°♄	
direct	1899 Apr 25 21:41	15°♄44'44		morning rise	1900 Apr 01 08:54	28°♄23'59	
morning max el	1899 May 10 05:58	23°♄16'26	26°14'56	desc. node	1900 Apr 07 05:55	26°♄32'28	
	1899 May 16 06:45	0°♄		direct	1900 Apr 07 18:51	26°♄31'41	
	1899 Jun 03 18:10	0°♄			1900 Apr 17 01:05	0°♄	
morning set	1899 Jun 07 18:28	8°♄12'17		morning max el	1900 Apr 22 02:47	4°♄18'18	27°19'14
asc. node	1899 Jun 08 23:32	10°♄46'19			1900 May 11 00:14	0°♄	
				morning set	1900 May 23 03:07	22°♄56'41	
superior conj	1899 Jun 14 19:16	23°♄27'35	0°58'04		1900 May 26 10:51	0°♄	
minimum elong	1899 Jun 14 17:05	23°♄15'37	0°57'40	asc. node	1900 May 26 20:34	0°♄52'33	
max. Earth dist.	1899 Jun 15 06:36	24°♄29'54	1.32347 AU	max. Earth dist.	1900 May 29 18:59	7°♄17'21	1.32192 AU
	1899 Jun 17 18:58	0°♄					
evening rise	1899 Jun 21 19:22	8°♄34'13		superior conj	1900 May 30 06:59	8°♄23'21	0°35'37
	1899 Jul 03 01:01	0°♄		minimum elong	1900 May 30 05:28	8°♄15'02	0°35'18
desc. node	1899 Jul 17 08:10	20°♄51'19		evening rise	1900 Jun 06 04:36	23°♄23'22	
evening max el	1899 Jul 22 14:20	26°♄29'11	26°59'43		1900 Jun 09 09:23	0°♄	
	1899 Jul 26 19:07	0°♄			1900 Jun 27 09:13	0°♄	
retrograde	1899 Aug 05 12:19	3°♄43'02		desc. node	1900 Jul 04 05:10	7°♄46'27	
evening set	1899 Aug 12 12:27	1°♄32'37		evening max el	1900 Jul 04 12:54	8°♄05'01	26°02'02
	1899 Aug 14 18:24	30°♄		retrograde	1900 Jul 18 12:54	15°♄15'08	
min. Earth dist.	1899 Aug 16 04:36	28°♄52'11	0.61008 AU	evening set	1900 Jul 24 20:11	13°♄39'10	
inferior conj	1899 Aug 19 09:10	26°♄08'06	-4°-27'-17	min. Earth dist.	1900 Jul 29 01:27	11°♄02'51	0.58947 AU
minimum elong	1899 Aug 19 13:58	25°♄57'44	4°26'26	inferior conj	1900 Aug 01 08:27	8°♄35'58	-4°-54'-32
morning rise	1899 Aug 26 18:31	21°♄17'16		minimum elong	1900 Aug 01 10:29	8°♄32'08	4°54'25
direct	1899 Aug 29 03:29	20°♄54'41		morning rise	1900 Aug 09 04:16	4°♄08'25	
asc. node	1899 Sep 04 22:46	24°♄07'26		direct	1900 Aug 11 15:10	3°♄48'13	
morning max el	1899 Sep 05 07:18	24°♄27'43	18°01'31	morning max el	1900 Aug 19 15:12	7°♄37'53	18°31'30
	1899 Sep 09 20:12	0°♄		asc. node	1900 Aug 22 19:48	11°♄13'01	
morning set	1899 Sep 21 02:25	19°♄23'44			1900 Sep 03 00:39	0°♄	
	1899 Sep 26 20:39	0°♄		morning set	1900 Sep 04 18:00	3°♄18'33	
superior conj	1899 Oct 01 04:50	7°♄47'11	1°16'27	superior conj	1900 Sep 13 16:48	20°♄24'38	1°35'48
minimum elong	1899 Oct 01 09:14	8°♄06'37	1°15'59	minimum elong	1900 Sep 13 19:42	20°♄38'07	1°35'36
max. Earth dist.	1899 Oct 08 19:11	20°♄49'10	1.42007 AU		1900 Sep 18 23:18	0°♄	
desc. node	1899 Oct 13 07:32	28°♄12'42		max. Earth dist.	1900 Sep 21 01:24	3°♄40'13	1.40037 AU
	1899 Oct 14 10:17	0°♄		evening rise	1900 Sep 25 08:38	11°♄00'21	
evening rise	1899 Oct 14 16:44	0°♄25'43		desc. node	1900 Sep 30 04:32	18°♄54'03	
	1899 Nov 03 11:28	0°♄			1900 Oct 07 08:22	0°♄	
greatest brilliancy	1899 Nov 11 20:43	11°♄01'02	-0.3m	evening max el	1900 Oct 30 04:51	29°♄55'55	23°46'15
evening max el	1899 Nov 16 14:49	16°♄21'12	22°26'16		1900 Oct 30 06:29	0°♄	
retrograde	1899 Nov 26 06:59	22°♄06'12		retrograde	1900 Nov 09 23:37	6°♄17'13	
evening set	1899 Nov 30 19:53	20°♄17'20		evening set	1900 Nov 15 01:58	4°♄10'59	
asc. node	1899 Dec 01 21:59	19°♄18'11			1900 Nov 18 20:38	30°♄	
inferior conj	1899 Dec 06 05:26	13°♄54'52	1°26'08	asc. node	1900 Nov 18 19:02	0°♄05'17	
minimum elong	1899 Dec 06 03:36	14°♄01'14	1°25'25	min. Earth dist.	1900 Nov 19 23:24	28°♄30'22	0.67723 AU
min. Earth dist.	1899 Dec 06 02:53	14°♄03'42	0.67820 AU	inferior conj	1900 Nov 20 12:35	27°♄45'29	0°35'33
morning rise	1899 Dec 11 11:11	7°♄41'56		minimum elong	1900 Nov 20 11:45	27°♄48'20	0°35'12
direct	1899 Dec 16 01:08	5°♄49'25		morning rise	1900 Nov 25 21:43	21°♄37'04	
morning max el	1899 Dec 25 09:12	11°♄19'23	22°10'26	direct	1900 Nov 29 21:34	20°♄07'10	
greatest brilliancy	1899 Dec 30 00:09	16°♄30'36	-0.3m	morning max el	1900 Dec 08 03:07	24°♄53'03	20°50'24
	1900 Jan 09 02:10	0°♄			1900 Dec 12 15:03	0°♄	
desc. node	1900 Jan 09 06:46	0°♄16'24		greatest brilliancy	1900 Dec 13 20:21	1°♄32'46	-0.5m
morning set	1900 Jan 27 11:30	27°♄59'36		desc. node	1900 Dec 27 03:48	20°♄22'45	
	1900 Jan 28 17:11	0°♄			1901 Jan 02 12:27	0°♄	
max. Earth dist.	1900 Feb 02 01:54	7°♄13'17	1.40988 AU	morning set	1901 Jan 06 16:18	6°♄25'50	

max. Earth dist.	1901 Jan 15 06:38	20°☿06'06	1.42885 AU		1901 Dec 26 09:31	0°☿	
	1901 Jan 21 06:30	0°♊		max. Earth dist.	1901 Dec 28 18:21	3°☿44'51	1.44291 AU
superior conj	1901 Jan 22 02:44	1°♊25'08	-2°-3'-31	superior conj	1902 Jan 02 06:08	10°☿55'59	-1°-47'-26
minimum elong	1901 Jan 22 00:38	1°♊16'18	2°03'29	minimum elong	1902 Jan 01 22:45	10°☿26'17	1°46'54
evening rise	1901 Feb 03 00:13	22°♊07'58		evening rise	1902 Jan 13 19:35	0°♊	
	1901 Feb 07 10:35	0°♋			1902 Jan 15 23:21	3°♊38'32	
asc. node	1901 Feb 14 18:19	12°♋08'53		asc. node	1902 Feb 01 15:58	0°♋	
evening max el	1901 Feb 19 22:32	18°♋42'06	18°07'16	evening max el	1902 Feb 01 15:21	29°♊58'08	
retrograde	1901 Feb 26 12:18	22°♋05'59		retrograde	1902 Feb 03 11:04	1°♋59'27	18°17'16
evening set	1901 Mar 01 04:45	21°♋31'40		retrograde	1902 Feb 09 22:18	5°♋28'19	
inferior conj	1901 Mar 07 17:09	16°♋27'26	3°37'40	evening set	1902 Feb 12 19:45	4°♋43'42	
minimum elong	1901 Mar 07 18:35	16°♋23'52	3°37'33		1902 Feb 18 07:09	30°♊	
min. Earth dist.	1901 Mar 10 18:14	13°♋26'43	0.61636 AU	inferior conj	1902 Feb 18 21:40	29°♊19'41	3°43'29
morning rise	1901 Mar 14 05:47	10°♋32'02		minimum elong	1902 Feb 18 21:12	29°♊20'58	3°43'29
direct	1901 Mar 21 02:30	8°♋07'30		min. Earth dist.	1902 Feb 21 08:34	26°♊35'43	0.63593 AU
desc. node	1901 Mar 25 02:57	8°♋52'29		morning rise	1902 Feb 24 20:53	23°♊14'08	
morning max el	1901 Apr 04 06:06	16°♋01'55	27°48'16	direct	1902 Mar 03 18:51	20°♊29'06	
	1901 Apr 15 17:10	0°♌		desc. node	1902 Mar 11 23:59	23°♊36'33	
	1901 May 03 13:58	0°♍		morning max el	1902 Mar 17 14:01	28°♊24'17	27°40'04
morning set	1901 May 07 07:21	7°♍25'25			1902 Mar 19 03:04	0°♋	
max. Earth dist.	1901 May 13 05:25	19°♍55'46	1.32422 AU		1902 Mar 19 03:04	0°♌	
asc. node	1901 May 13 17:35	21°♍01'50		morning set	1902 Apr 09 12:07	0°♌	
					1902 Apr 21 04:49	21°♌30'40	
superior conj	1901 May 14 17:23	23°♍11'28	0°10'28		1902 Apr 25 08:41	0°♍	
minimum elong	1901 May 14 16:54	23°♍08'49	0°10'21	max. Earth dist.	1902 Apr 26 09:44	2°♍11'19	1.33057 AU
behind sun begin	1901 May 14 13:00	22°♍47'32		superior conj	1902 Apr 29 00:43	7°♍46'13	0°-16'-35
behind sun end	1901 May 14 20:49	23°♍30'07		minimum elong	1902 Apr 29 01:32	7°♍50'35	0°16'25
	1901 May 17 20:08	0°♎		asc. node	1902 Apr 30 14:38	11°♍10'12	
evening rise	1901 May 21 16:02	8°♎15'42		evening rise	1902 May 06 03:48	23°♍04'50	
	1901 Jun 01 23:35	0°♏			1902 May 09 12:09	0°♎	
evening max el	1901 Jun 16 04:40	18°♏56'55	24°38'44	evening max el	1902 May 28 18:34	29°♎27'02	23°03'22
desc. node	1901 Jun 21 02:11	22°♏56'06			1902 May 29 08:28	0°♏	
retrograde	1901 Jun 30 02:52	25°♏59'56		desc. node	1902 Jun 07 23:12	5°♏44'45	
evening set	1901 Jul 05 04:10	25°♏02'18		retrograde	1902 Jun 11 04:42	6°♏08'32	
min. Earth dist.	1901 Jul 10 15:47	22°♏11'41	0.57019 AU	evening set	1902 Jun 14 17:59	5°♏40'50	
inferior conj	1901 Jul 13 11:58	20°♏21'27	-4°-51'-6	min. Earth dist.	1902 Jun 22 03:50	2°♏21'29	0.55570 AU
minimum elong	1901 Jul 13 08:57	20°♏26'22	4°50'53	inferior conj	1902 Jun 23 20:04	1°♏22'59	-4°-3'-31
morning rise	1901 Jul 21 17:29	16°♏15'46		minimum elong	1902 Jun 23 12:38	1°♏33'49	4°01'55
direct	1901 Jul 24 08:17	15°♏56'44			1902 Jun 26 06:27	30°♎	
morning max el	1901 Aug 02 14:26	20°♏15'26	19°22'39	morning rise	1902 Jul 02 10:19	27°♎30'11	
asc. node	1901 Aug 09 16:50	29°♏12'57		direct	1902 Jul 05 06:26	27°♎11'02	
	1901 Aug 10 04:45	0°♐			1902 Jul 13 09:32	0°♏	
morning set	1901 Aug 19 18:15	17°♐38'59		morning max el	1902 Jul 16 02:48	2°♏12'30	20°34'54
	1901 Aug 25 22:24	0°♑		asc. node	1902 Jul 27 13:52	17°♏54'48	
					1902 Aug 02 21:22	0°♐	
superior conj	1901 Aug 27 21:46	3°♑53'10	1°44'42	morning set	1902 Aug 04 00:24	2°♐17'46	
minimum elong	1901 Aug 27 22:45	3°♑57'56	1°44'40	superior conj	1902 Aug 11 14:57	17°♐58'51	1°45'02
max. Earth dist.	1901 Sep 03 05:08	15°♑51'08	1.37986 AU	minimum elong	1902 Aug 11 14:17	17°♐55'29	1°45'00
evening rise	1901 Sep 07 00:35	22°♑42'20		max. Earth dist.	1902 Aug 16 11:59	27°♐42'02	1.36100 AU
	1901 Sep 11 06:21	0°♒			1902 Aug 17 16:34	0°♑	
desc. node	1901 Sep 17 01:31	9°♒26'22		evening rise	1902 Aug 20 13:32	5°♑24'59	
	1901 Oct 01 04:35	0°♓		desc. node	1902 Sep 03 22:33	29°♑44'48	
evening max el	1901 Oct 12 16:51	13°♓33'37	25°03'31		1902 Sep 04 02:30	0°♒	
retrograde	1901 Oct 24 12:10	20°♓24'14		evening max el	1902 Sep 25 04:48	27°♒13'07	26°10'36
evening set	1901 Oct 30 04:51	18°♓01'36			1902 Sep 28 07:22	0°♓	
min. Earth dist.	1901 Nov 03 17:57	12°♓55'32	0.67295 AU	retrograde	1902 Oct 07 20:00	4°♓22'21	
inferior conj	1901 Nov 04 17:49	11°♓37'18	0°-19'-10	evening set	1902 Oct 14 02:45	1°♓46'46	
minimum elong	1901 Nov 04 18:18	11°♓35'43	0°18'58		1902 Oct 15 23:38	30°♒	
asc. node	1901 Nov 05 16:04	10°♓24'54		min. Earth dist.	1902 Oct 18 08:16	27°♒16'45	0.66532 AU
morning rise	1901 Nov 10 08:19	5°♓35'45		inferior conj	1902 Oct 19 19:20	25°♒28'09	-1°-16'-34
direct	1901 Nov 13 19:42	4°♓26'07		minimum elong	1902 Oct 19 21:21	25°♒21'54	1°15'44
morning max el	1901 Nov 21 04:52	8°♓37'28	19°42'38	asc. node	1902 Oct 23 13:05	21°♒15'15	
greatest brilliancy	1901 Nov 29 03:58	18°♓31'40	-0.6m	morning rise	1902 Oct 25 17:01	19°♒36'13	
	1901 Dec 06 23:38	0°♈		direct	1902 Oct 28 18:06	18°♒43'15	
desc. node	1901 Dec 14 00:48	10°♈45'25		morning max el	1902 Nov 04 13:43	22°♒30'19	18°49'52
morning set	1901 Dec 16 12:39	14°♈36'10					

	1902 Nov 10 15:08	0°♁		desc. node	1903 Nov 17 18:54	22°♁02'21	
morning set	1902 Nov 26 01:34	23°♁42'17					
	1902 Nov 30 01:30	0°♁		superior conj	1903 Nov 21 14:56	28°♁07'42	0°-25'-29
desc. node	1902 Nov 30 21:51	1°♁20'01		minimum elong	1903 Nov 21 11:38	27°♁54'42	0°25'04
max. Earth dist.	1902 Dec 11 10:56	17°♁53'38	1.45045 AU		1903 Nov 22 19:22	0°♁	
				max. Earth dist.	1903 Nov 24 06:04	2°♁16'41	1.45062 AU
superior conj	1902 Dec 12 12:21	19°♁33'31	-1°-12'-35	evening rise	1903 Dec 08 01:24	23°♁51'02	
minimum elong	1902 Dec 12 03:58	19°♁00'33	1°11'38		1903 Dec 12 00:14	0°♁	
	1902 Dec 19 03:01	0°♁		greatest brilliancy	1903 Dec 23 21:17	18°♁06'33	-0.7m
evening rise	1902 Dec 27 23:44	14°♁11'27		evening max el	1904 Jan 01 06:08	28°♁53'30	19°30'29
	1903 Jan 06 19:31	0°♁			1904 Jan 02 09:25	0°♁	
evening max el	1903 Jan 17 22:19	15°♁24'27	18°45'28	asc. node	1904 Jan 06 09:25	2°♁40'01	
asc. node	1903 Jan 19 12:23	16°♁53'09		retrograde	1904 Jan 08 11:56	3°♁04'19	
retrograde	1903 Jan 24 15:15	19°♁09'30		evening set	1904 Jan 11 22:19	1°♁55'21	
evening set	1903 Jan 27 18:29	18°♁13'26			1904 Jan 14 03:47	30°♁	
inferior conj	1903 Feb 02 12:59	12°♁31'34	3°32'09	inferior conj	1904 Jan 17 11:54	25°♁57'59	3°08'07
minimum elong	1903 Feb 02 11:11	12°♁37'04	3°31'55	minimum elong	1904 Jan 17 09:24	26°♁06'09	3°07'34
min. Earth dist.	1903 Feb 04 08:23	10°♁19'08	0.65220 AU	min. Earth dist.	1904 Jan 18 16:32	24°♁24'36	0.66449 AU
morning rise	1903 Feb 08 02:44	6°♁20'24		morning rise	1904 Jan 22 19:45	19°♁43'52	
direct	1903 Feb 14 18:20	3°♁29'32		direct	1904 Jan 28 23:48	17°♁00'21	
desc. node	1903 Feb 26 21:02	10°♁09'18		morning max el	1904 Feb 10 08:55	24°♁21'32	25°51'33
morning max el	1903 Feb 27 23:40	11°♁14'34	26°58'33	desc. node	1904 Feb 13 18:06	28°♁00'22	
	1903 Mar 14 21:52	0°♁			1904 Feb 15 10:59	0°♁	
morning set	1903 Apr 02 00:25	0°♁		morning set	1904 Mar 07 08:05	0°♁	
max. Earth dist.	1903 Apr 04 16:21	5°♁02'11		max. Earth dist.	1904 Mar 17 13:48	17°♁47'41	
	1903 Apr 09 04:12	13°♁53'53	1.34141 AU		1904 Mar 21 11:04	25°♁06'02	1.35688 AU
					1904 Mar 23 23:34	0°♁	
superior conj	1903 Apr 13 02:52	22°♁00'42	0°-44'-29	superior conj	1904 Mar 26 21:20	5°♁47'44	-1°-11'-49
minimum elong	1903 Apr 13 05:06	22°♁12'26	0°44'04	minimum elong	1904 Mar 27 00:53	6°♁05'38	1°11'14
	1903 Apr 16 21:51	0°♁		asc. node	1904 Apr 03 08:44	21°♁06'29	
asc. node	1903 Apr 17 11:41	1°♁13'08		evening rise	1904 Apr 03 20:41	22°♁07'29	
evening rise	1903 Apr 20 14:01	7°♁44'10			1904 Apr 07 19:13	0°♁	
	1903 May 02 13:36	0°♁		evening max el	1904 Apr 21 20:31	21°♁18'14	20°11'33
evening max el	1903 May 10 14:09	10°♁06'24	21°30'44	retrograde	1904 May 02 09:34	26°♁24'18	
retrograde	1903 May 22 19:39	16°♁05'31		evening set	1904 May 04 10:36	26°♁13'39	
evening set	1903 May 25 06:14	15°♁52'00		desc. node	1904 May 11 17:15	23°♁16'38	
desc. node	1903 May 25 20:14	15°♁44'56		inferior conj	1904 May 13 11:25	22°♁15'04	0°-30'-43
inferior conj	1903 Jun 03 15:25	11°♁51'44	-2°-29'-35	minimum elong	1904 May 13 09:59	22°♁17'11	0°30'11
minimum elong	1903 Jun 03 08:44	12°♁01'06	2°27'24	min. Earth dist.	1904 May 15 05:01	21°♁13'28	0.55238 AU
min. Earth dist.	1903 Jun 03 15:57	11°♁50'59	0.54924 AU	morning rise	1904 May 22 07:02	17°♁56'20	
morning rise	1903 Jun 12 11:47	7°♁55'17		direct	1904 May 26 05:57	17°♁22'20	
direct	1903 Jun 15 17:24	7°♁32'28		morning max el	1904 Jun 08 20:41	24°♁03'12	23°46'37
morning max el	1903 Jun 28 03:52	13°♁25'15	22°05'24		1904 Jun 14 06:23	0°♁	
	1903 Jul 10 13:08	0°♁		asc. node	1904 Jun 30 08:00	26°♁43'34	
asc. node	1903 Jul 14 10:55	7°♁07'39			1904 Jul 01 22:14	0°♁	
morning set	1903 Jul 19 10:12	17°♁07'37		morning set	1904 Jul 02 21:48	2°♁03'22	
	1903 Jul 25 12:11	0°♁					
superior conj	1903 Jul 26 16:28	2°♁29'18	1°38'27	superior conj	1904 Jul 09 23:31	17°♁15'52	1°26'16
minimum elong	1903 Jul 26 14:42	2°♁19'57	1°38'19	minimum elong	1904 Jul 09 21:11	17°♁03'18	1°25'59
max. Earth dist.	1903 Jul 30 03:04	9°♁38'25	1.34544 AU	max. Earth dist.	1904 Jul 12 03:36	21°♁55'00	1.33381 AU
evening rise	1903 Aug 03 18:41	18°♁54'30			1904 Jul 16 00:26	0°♁	
	1903 Aug 09 17:51	0°♁		evening rise	1904 Jul 17 11:43	2°♁58'49	
desc. node	1903 Aug 21 19:35	19°♁41'43			1904 Aug 01 13:25	0°♁	
	1903 Aug 29 05:36	0°♁		desc. node	1904 Aug 07 16:35	9°♁08'02	
evening max el	1903 Sep 07 17:10	10°♁46'47	26°59'59	evening max el	1904 Aug 20 04:40	24°♁02'49	27°24'23
retrograde	1903 Sep 20 22:22	18°♁03'49			1904 Aug 28 08:17	0°♁	
evening set	1903 Sep 27 17:23	15°♁21'26		retrograde	1904 Sep 02 18:37	1°♁20'30	
min. Earth dist.	1903 Oct 01 15:54	11°♁28'17	0.65417 AU		1904 Sep 07 20:25	30°♁	
inferior conj	1903 Oct 03 15:03	9°♁13'15	-2°-14'-56	evening set	1904 Sep 09 21:56	28°♁40'30	
minimum elong	1903 Oct 03 18:38	9°♁02'56	2°13'35	min. Earth dist.	1904 Sep 13 14:36	25°♁22'20	0.63949 AU
morning rise	1903 Oct 09 21:28	3°♁34'03		inferior conj	1904 Sep 16 02:27	22°♁46'57	-3°-11'-43
asc. node	1903 Oct 10 10:08	3°♁20'01		minimum elong	1904 Sep 16 07:20	22°♁34'14	3°10'10
direct	1903 Oct 12 14:40	2°♁53'50		morning rise	1904 Sep 22 18:52	17°♁24'05	
morning max el	1903 Oct 19 03:31	6°♁26'03	18°13'34	direct	1904 Sep 25 06:46	16°♁53'01	
	1903 Nov 04 04:56	0°♁		asc. node	1904 Sep 26 07:12	16°♁58'16	
morning set	1903 Nov 06 19:17	4°♁15'33		morning max el	1904 Oct 01 19:35	20°♁18'44	17°54'30

	1904 Oct 09 01:51	0°♁		morning max el	1905 Sep 15 11:02	4°♎02'06	17°53'31
morning set	1904 Oct 18 16:04	16°♁07'25		morning set	1905 Oct 01 09:52	28°♎59'30	
	1904 Oct 26 20:16	0°♎			1905 Oct 01 23:17	0°♁	
superior conj	1904 Oct 31 10:23	7°♎34'29	0°21'45	superior conj	1905 Oct 12 08:39	18°♁21'03	0°59'55
minimum elong	1904 Oct 31 12:45	7°♎44'08	0°21'25	minimum elong	1905 Oct 12 13:13	18°♁40'33	0°59'21
desc. node	1904 Nov 03 15:55	12°♎48'36			1905 Oct 19 07:45	0°♎	
max. Earth dist.	1904 Nov 06 00:25	16°♎34'39	1.44349 AU	max. Earth dist.	1905 Oct 19 14:43	0°♎28'28	1.42999 AU
	1904 Nov 14 13:47	0°♎		desc. node	1905 Oct 21 12:56	3°♎35'50	
evening rise	1904 Nov 16 11:46	2°♎57'23		evening rise	1905 Oct 26 22:19	12°♎09'22	
	1904 Dec 04 14:14	0°♎			1905 Nov 07 16:27	0°♎	
greatest brilliancy	1904 Dec 08 08:00	5°♎08'47	-0.5m	greatest brilliancy	1905 Nov 22 09:21	20°♎21'31	-0.4m
evening max el	1904 Dec 14 08:50	12°♎23'28	20°30'13	evening max el	1905 Nov 27 05:51	25°♎54'07	21°41'35
retrograde	1904 Dec 22 09:50	17°♎07'56			1905 Dec 02 04:46	0°♎	
asc. node	1904 Dec 23 06:28	17°♎03'48		retrograde	1905 Dec 06 06:57	1°♎17'11	
evening set	1904 Dec 26 05:03	15°♎44'32			1905 Dec 10 00:57	30°♎	
inferior conj	1904 Dec 31 15:45	9°♎34'29	2°34'20	asc. node	1905 Dec 10 03:30	29°♎55'30	
minimum elong	1904 Dec 31 13:08	9°♎43'23	2°33'33	evening set	1905 Dec 10 12:51	29°♎37'52	
min. Earth dist.	1905 Jan 01 07:10	8°♎42'05	0.67275 AU	inferior conj	1905 Dec 15 22:23	23°♎18'37	1°52'53
morning rise	1905 Jan 05 20:45	3°♎19'17		minimum elong	1905 Dec 15 20:08	23°♎26'24	1°52'04
direct	1905 Jan 11 10:25	0°♎52'22		min. Earth dist.	1905 Dec 16 02:03	23°♎05'57	0.67721 AU
morning max el	1905 Jan 22 17:22	7°♎36'20	24°28'43	morning rise	1905 Dec 21 03:10	17°♎04'10	
desc. node	1905 Jan 30 15:09	16°♎46'33		direct	1905 Dec 26 01:35	14°♎58'45	
	1905 Feb 09 05:35	0°♎		morning max el	1906 Jan 05 02:55	20°♎56'44	23°00'13
morning set	1905 Feb 27 15:33	29°♎31'10		greatest brilliancy	1906 Jan 09 21:52	26°♎17'44	-0.3m
	1905 Feb 27 22:07	0°♎			1906 Jan 12 20:56	0°♎	
max. Earth dist.	1905 Mar 03 08:46	6°♎08'48	1.37628 AU	desc. node	1906 Jan 17 12:12	6°♎12'14	
					1906 Feb 02 12:04	0°♎	
superior conj	1905 Mar 10 04:46	18°♎57'31	-1°-36'-28	morning set	1906 Feb 08 15:29	9°♎57'35	
minimum elong	1905 Mar 10 09:02	19°♎18'07	1°35'57	max. Earth dist.	1906 Feb 13 04:00	17°♎36'35	1.39770 AU
	1905 Mar 15 19:33	0°♎			1906 Feb 20 03:32	0°♎	
evening rise	1905 Mar 18 21:21	6°♎07'13		superior conj	1906 Feb 20 21:01	1°♎20'05	-1°-55'-25
asc. node	1905 Mar 21 05:47	10°♎44'50		minimum elong	1906 Feb 21 00:39	1°♎36'46	1°55'12
	1905 Apr 01 18:19	0°♎		evening rise	1906 Mar 02 13:11	19°♎36'16	
evening max el	1905 Apr 04 14:17	3°♎08'47	19°10'59		1906 Mar 08 02:10	0°♎	
retrograde	1905 Apr 13 11:35	7°♎27'00		asc. node	1906 Mar 08 02:48	0°♎02'56	
evening set	1905 Apr 15 14:18	7°♎13'26		evening max el	1906 Mar 18 17:22	15°♎34'57	18°30'34
inferior conj	1905 Apr 23 21:31	3°♎02'10	1°19'05	retrograde	1906 Mar 26 08:03	19°♎19'24	
minimum elong	1905 Apr 24 00:31	2°♎57'04	1°18'04	evening set	1906 Mar 28 16:08	18°♎59'22	
min. Earth dist.	1905 Apr 26 20:01	1°♎03'29	0.56443 AU	inferior conj	1906 Apr 05 04:27	14°♎28'51	2°38'18
	1905 Apr 28 12:43	30°♎		minimum elong	1906 Apr 05 08:26	14°♎20'57	2°37'19
desc. node	1905 Apr 28 14:18	29°♎57'39		min. Earth dist.	1906 Apr 08 14:43	11°♎47'06	0.58285 AU
morning rise	1905 May 02 06:38	28°♎09'29		morning rise	1906 Apr 12 20:30	9°♎04'18	
direct	1905 May 07 05:35	27°♎12'30		desc. node	1906 Apr 15 11:21	8°♎01'59	
	1905 May 15 20:06	0°♎		direct	1906 Apr 18 19:32	7°♎33'06	
morning max el	1905 May 21 11:06	4°♎29'37	25°25'33	morning max el	1906 May 03 04:47	15°♎12'58	26°46'17
	1905 Jun 08 18:00	0°♎			1906 May 15 03:10	0°♎	
morning set	1905 Jun 17 09:35	16°♎59'16			1906 May 31 22:49	0°♎	
asc. node	1905 Jun 17 05:04	16°♎35'28		morning set	1906 Jun 01 19:50	1°♎49'33	
	1905 Jun 23 09:54	0°♎		asc. node	1906 Jun 04 02:05	6°♎37'49	
superior conj	1905 Jun 24 09:51	2°♎11'07	1°09'29	superior conj	1906 Jun 08 21:33	17°♎08'27	0°48'55
minimum elong	1905 Jun 24 07:29	1°♎58'09	1°09'07	minimum elong	1906 Jun 08 19:37	16°♎57'45	0°48'32
max. Earth dist.	1905 Jun 25 11:22	4°♎30'32	1.32607 AU	max. Earth dist.	1906 Jun 08 22:59	17°♎16'21	1.32226 AU
evening rise	1905 Jul 01 13:08	17°♎27'13			1906 Jun 14 19:24	0°♎	
	1905 Jul 07 22:07	0°♎		evening rise	1906 Jun 15 20:09	2°♎10'49	
desc. node	1905 Jul 25 13:35	27°♎51'15			1906 Jun 30 21:27	0°♎	
	1905 Jul 27 06:51	0°♎		desc. node	1906 Jul 12 10:36	15°♎32'54	
evening max el	1905 Aug 02 12:54	6°♎47'54	27°18'14	evening max el	1906 Jul 15 15:20	18°♎50'12	26°38'56
retrograde	1905 Aug 16 08:22	14°♎03'41		retrograde	1906 Jul 29 14:38	26°♎03'29	
evening set	1905 Aug 23 12:46	11°♎38'12		evening set	1906 Aug 05 09:15	24°♎06'15	
min. Earth dist.	1905 Aug 27 02:53	8°♎48'03	0.62152 AU	min. Earth dist.	1906 Aug 09 04:57	21°♎30'04	0.60126 AU
inferior conj	1905 Aug 30 02:36	6°♎02'31	-4°-2'-53	inferior conj	1906 Aug 12 11:57	18°♎50'27	-4°-41'-45
minimum elong	1905 Aug 30 07:54	5°♎50'14	4°01'37	minimum elong	1906 Aug 12 15:55	18°♎42'25	4°41'14
morning rise	1905 Sep 06 05:46	0°♎59'28		morning rise	1906 Aug 20 01:54	14°♎09'49	
direct	1905 Sep 08 15:01	0°♎34'32		direct	1906 Aug 22 11:16	13°♎48'34	
asc. node	1905 Sep 13 04:16	2°♎08'03					

morning max el	1906 Aug 29 22:39	17°♁27'20	18°11'48	inferior conj	1907 Jul 25 03:07	1°♁01'36	-4°-57'-45
asc. node	1906 Aug 31 01:19	18°♁35'48		minimum elong	1907 Jul 25 03:12	1°♁01'26	4°57'46
	1906 Sep 07 21:54	0°♁			1907 Jul 26 14:36	30°♁	
morning set	1906 Sep 14 18:50	12°♁34'56		morning rise	1907 Aug 02 03:08	26°♁43'41	
	1906 Sep 24 03:26	0°♁		direct	1907 Aug 04 15:18	26°♁24'14	
					1907 Aug 12 16:20	0°♁	
superior conj	1906 Sep 24 08:23	0°♁22'21	1°26'03	morning max el	1907 Aug 13 03:15	0°♁25'06	18°50'37
minimum elong	1906 Sep 24 12:16	0°♁39'55	1°25'40	asc. node	1907 Aug 17 22:21	6°♁06'19	
max. Earth dist.	1906 Oct 01 23:16	13°♁42'37	1.41191 AU	morning set	1907 Aug 29 14:32	26°♁41'49	
evening rise	1906 Oct 07 00:55	22°♁07'06			1907 Aug 31 06:54	0°♁	
desc. node	1906 Oct 08 09:55	24°♁20'23					
	1906 Oct 11 23:37	0°♁		superior conj	1907 Sep 07 04:16	13°♁23'25	1°40'44
	1906 Nov 01 19:33	0°♁		minimum elong	1907 Sep 07 06:20	13°♁33'18	1°40'37
greatest brilliancy	1906 Nov 04 11:03	3°♁19'07	-0.2m	max. Earth dist.	1907 Sep 14 03:32	26°♁13'48	1.39162 AU
evening max el	1906 Nov 09 21:51	9°♁26'30	23°00'08		1907 Sep 16 06:56	0°♁	
retrograde	1906 Nov 20 01:40	15°♁28'12		evening rise	1907 Sep 18 03:17	3°♁11'13	
evening set	1906 Nov 24 20:01	13°♁32'01		desc. node	1907 Sep 25 06:56	14°♁58'34	
asc. node	1906 Nov 27 00:33	11°♁20'14			1907 Oct 05 04:36	0°♁	
inferior conj	1906 Nov 30 05:51	7°♁07'29	1°05'15	evening max el	1907 Oct 23 10:52	23°♁02'57	24°19'53
minimum elong	1906 Nov 30 04:24	7°♁12'30	1°04'40	retrograde	1907 Nov 03 16:40	29°♁37'49	
min. Earth dist.	1906 Nov 29 22:45	7°♁32'01	0.67818 AU	evening set	1907 Nov 09 00:57	27°♁24'41	
morning rise	1906 Dec 05 12:46	0°♁55'58		min. Earth dist.	1907 Nov 13 18:50	21°♁58'17	0.67585 AU
	1906 Dec 06 22:06	30°♁		asc. node	1907 Nov 13 21:35	21°♁49'04	
direct	1906 Dec 09 20:28	29°♁13'18		inferior conj	1907 Nov 14 12:25	20°♁59'09	0°12'46
	1906 Dec 12 23:49	0°♁		minimum elong	1907 Nov 14 12:07	21°♁00'12	0°12'39
morning max el	1906 Dec 18 16:50	4°♁24'11	21°35'01	transit begin	1907 Nov 14 10:24	21°♁05'59	
greatest brilliancy	1906 Dec 23 15:54	10°♁02'24	-0.4m	transit end	1907 Nov 14 13:50	20°♁54'26	
desc. node	1907 Jan 04 09:12	26°♁05'55		morning rise	1907 Nov 19 23:35	14°♁53'03	
	1907 Jan 07 00:55	0°♁		direct	1907 Nov 23 17:56	13°♁32'00	
morning set	1907 Jan 19 10:15	19°♁00'53		morning max el	1907 Dec 01 13:55	18°♁01'57	20°19'43
	1907 Jan 26 05:00	0°♁		greatest brilliancy	1907 Dec 08 02:31	25°♁49'38	-0.5m
max. Earth dist.	1907 Jan 26 03:34	29°♁54'02	1.41838 AU		1907 Dec 11 03:37	0°♁	
				desc. node	1907 Dec 22 06:13	16°♁19'49	
superior conj	1907 Feb 02 16:58	12°♁43'05	-2°-4'-36	morning set	1907 Dec 29 08:17	27°♁10'34	
minimum elong	1907 Feb 02 17:42	12°♁46'15	2°04'38		1907 Dec 31 03:57	0°♁	
	1907 Feb 12 08:38	0°♁		max. Earth dist.	1908 Jan 08 11:06	13°♁06'48	1.43559 AU
evening rise	1907 Feb 13 16:33	2°♁26'01					
asc. node	1907 Feb 22 23:50	18°♁54'00		superior conj	1908 Jan 14 11:44	22°♁55'42	-1°-59'-2
evening max el	1907 Mar 02 02:41	28°♁28'29	18°10'14	minimum elong	1908 Jan 14 07:16	22°♁37'14	1°58'51
	1907 Mar 03 20:52	0°♁			1908 Jan 18 17:22	0°♁	
retrograde	1907 Mar 08 22:19	1°♁55'18		evening rise	1908 Jan 27 03:12	14°♁27'28	
evening set	1907 Mar 11 11:52	1°♁26'36			1908 Feb 05 04:24	0°♁	
	1907 Mar 14 04:59	30°♁		asc. node	1908 Feb 09 20:52	7°♁08'53	
inferior conj	1907 Mar 18 07:58	26°♁34'52	3°24'09	evening max el	1908 Feb 13 14:56	11°♁39'35	18°09'19
minimum elong	1907 Mar 18 10:34	26°♁28'53	3°23'47	retrograde	1908 Feb 20 02:21	15°♁03'42	
min. Earth dist.	1907 Mar 21 15:19	23°♁33'40	0.60413 AU	evening set	1908 Feb 22 21:00	14°♁25'01	
morning rise	1907 Mar 25 05:58	20°♁48'16		inferior conj	1908 Feb 29 04:31	9°♁12'19	3°42'34
direct	1907 Mar 31 21:51	18°♁40'47		minimum elong	1908 Feb 29 05:06	9°♁10'47	3°42'33
desc. node	1907 Apr 02 08:23	18°♁46'30		min. Earth dist.	1908 Mar 03 00:00	6°♁16'28	0.62504 AU
morning max el	1907 Apr 15 04:25	26°♁32'22	27°36'08	morning rise	1908 Mar 06 11:00	3°♁12'14	
	1907 Apr 18 10:42	0°♁		direct	1908 Mar 13 09:32	0°♁37'07	
	1907 May 08 15:23	0°♁		desc. node	1908 Mar 19 05:26	2°♁11'59	
morning set	1907 May 17 02:52	16°♁28'29		morning max el	1908 Mar 27 09:42	8°♁32'23	27°49'12
asc. node	1907 May 21 23:06	26°♁46'12			1908 Apr 12 22:48	0°♁	
	1907 May 23 10:39	0°♁			1908 Apr 29 19:00	0°♁	
max. Earth dist.	1907 May 23 10:50	0°♁01'02	1.32234 AU	morning set	1908 Apr 30 04:30	0°♁48'01	
				max. Earth dist.	1908 May 05 19:05	12°♁30'57	1.32640 AU
superior conj	1907 May 24 08:57	2°♁02'15	0°25'15				
minimum elong	1907 May 24 07:50	1°♁56'08	0°25'00	superior conj	1908 May 07 18:16	16°♁45'32	0°00'-49
evening rise	1907 May 31 06:34	17°♁02'29		minimum elong	1908 May 07 18:18	16°♁45'45	0°00'50
	1907 Jun 06 16:43	0°♁		behind sun begin	1908 May 07 13:08	16°♁17'41	
	1907 Jun 27 08:05	0°♁		behind sun end	1908 May 07 23:29	17°♁13'49	
evening max el	1907 Jun 27 10:48	0°♁06'32	25°29'11	asc. node	1908 May 07 20:09	16°♁55'44	
desc. node	1907 Jun 29 07:37	1°♁47'46			1908 May 13 20:52	0°♁	
retrograde	1907 Jul 11 11:17	7°♁14'58		evening rise	1908 May 14 18:21	1°♁54'22	
evening set	1907 Jul 17 06:56	5°♁55'44			1908 May 30 04:34	0°♁	
min. Earth dist.	1907 Jul 21 22:55	3°♁15'07	0.58085 AU	evening max el	1908 Jun 08 01:09	10°♁46'11	23°58'48

desc. node	1908 Jun 15 04:39	16°☾01'58		desc. node	1909 Jun 02 01:42	27°♁40'39	
retrograde	1908 Jun 21 19:46	17°☾41'34		retrograde	1909 Jun 02 16:03	27°♁41'28	
evening set	1908 Jun 26 05:41	16°☾58'35		evening set	1909 Jun 05 16:21	27°♁21'26	
min. Earth dist.	1908 Jul 02 11:52	13°☾57'16	0.56327 AU	min. Earth dist.	1909 Jun 13 23:18	23°♁46'22	0.55190 AU
inferior conj	1908 Jul 04 22:01	12°☾28'00	-4°-36'-54	inferior conj	1909 Jun 14 23:20	23°♁12'25	-3°-28'-37
minimum elong	1908 Jul 04 16:46	12°☾36'07	4°36'11	minimum elong	1909 Jun 14 15:27	23°♁23'35	3°26'28
morning rise	1908 Jul 13 07:20	8°☾29'01		morning rise	1909 Jun 23 16:46	19°♁20'50	
direct	1908 Jul 16 00:22	8°☾09'59		direct	1909 Jun 26 16:25	19°♁00'40	
morning max el	1908 Jul 25 21:55	12°☾45'29	19°50'51	morning max el	1909 Jul 08 05:14	24°♁22'45	21°11'33
asc. node	1908 Aug 03 19:22	24°☾25'14			1909 Jul 13 06:04	0°☾	
	1908 Aug 06 23:47	0°♁		asc. node	1909 Jul 21 16:25	13°☾21'13	
morning set	1908 Aug 12 17:36	11°♁10'50		morning set	1909 Jul 28 01:31	25°☾54'54	
					1909 Jul 30 00:39	0°♁	
superior conj	1908 Aug 20 14:55	27°♁08'48	1°45'46	superior conj	1909 Aug 04 11:59	11°♁25'55	1°42'59
minimum elong	1908 Aug 20 15:08	27°♁09'55	1°45'46	minimum elong	1909 Aug 04 10:47	11°♁19'42	1°42'56
	1908 Aug 22 01:31	0°♁		max. Earth dist.	1909 Aug 08 18:19	20°♁05'29	1.35392 AU
max. Earth dist.	1908 Aug 26 08:09	8°♁14'05	1.37157 AU	evening rise	1909 Aug 13 01:03	28°♁23'44	
evening rise	1908 Aug 30 04:43	15°♁20'15			1909 Aug 13 21:32	0°♁	
	1908 Sep 07 18:14	0°♁		desc. node	1909 Aug 29 01:01	25°♁36'07	
desc. node	1908 Sep 11 03:58	5°♁25'50			1909 Sep 01 00:05	0°♁	
	1908 Sep 28 19:36	0°♁		evening max el	1909 Sep 17 11:01	20°♁20'40	26°34'14
evening max el	1908 Oct 04 22:56	6°♁42'57	25°33'48	retrograde	1909 Sep 30 08:34	27°♁34'06	
retrograde	1908 Oct 17 03:10	13°♁42'00		evening set	1909 Oct 06 21:05	24°♁54'28	
evening set	1908 Oct 23 01:59	11°♁13'30		min. Earth dist.	1909 Oct 10 23:29	20°♁40'30	0.66101 AU
min. Earth dist.	1908 Oct 27 11:52	6°♁22'37	0.67015 AU	inferior conj	1909 Oct 12 15:39	18°♁39'59	-1°-41'-19
inferior conj	1908 Oct 28 16:21	4°♁51'20	0°-43'-14	minimum elong	1909 Oct 12 18:21	18°♁31'53	1°40'15
minimum elong	1908 Oct 28 17:27	4°♁47'45	0°42'46	asc. node	1909 Oct 17 15:40	13°♁33'04	
asc. node	1908 Oct 30 18:37	2°♁15'24		morning rise	1909 Oct 18 16:53	12°♁53'21	
	1908 Nov 01 22:44	30°♁		direct	1909 Oct 21 14:21	12°♁06'16	
morning rise	1908 Nov 03 09:41	28°♁53'30		morning max el	1909 Oct 28 06:12	15°♁45'38	18°32'28
direct	1908 Nov 06 16:32	27°♁51'13			1909 Nov 07 18:06	0°♁	
	1908 Nov 11 17:53	0°♁		morning set	1909 Nov 17 10:00	15°♁21'24	
morning max el	1908 Nov 13 18:53	1°♁50'38	19°18'16	desc. node	1909 Nov 25 00:17	27°♁26'58	
greatest brilliancy	1908 Nov 23 12:41	14°♁27'53	-0.7m		1909 Nov 26 14:59	0°♁	
	1908 Dec 03 17:54	0°♁		superior conj	1909 Dec 03 06:49	10°♁28'59	0°-53'-25
morning set	1908 Dec 07 09:17	5°♁38'46		minimum elong	1909 Dec 03 00:04	10°♁02'31	0°52'36
desc. node	1908 Dec 08 03:15	6°♁48'32		max. Earth dist.	1909 Dec 03 20:24	11°♁22'22	1.45142 AU
max. Earth dist.	1908 Dec 21 01:56	27°♁03'35	1.44704 AU		1909 Dec 15 16:33	0°♁	
	1908 Dec 22 22:31	0°♁		evening rise	1909 Dec 19 07:32	5°♁44'23	
					1910 Jan 03 21:28	0°♁	
superior conj	1908 Dec 24 04:53	2°♁00'36	-1°-34'-46	evening max el	1910 Jan 10 13:15	8°♁28'24	19°02'33
minimum elong	1908 Dec 23 20:15	1°♁26'16	1°33'59	asc. node	1910 Jan 13 14:58	11°♁05'16	
evening rise	1909 Jan 07 17:03	25°♁34'43		retrograde	1910 Jan 17 10:53	12°♁23'37	
	1909 Jan 10 09:00	0°♁		evening set	1910 Jan 20 16:57	11°♁22'12	
asc. node	1909 Jan 26 17:55	24°♁37'13		inferior conj	1910 Jan 26 09:03	5°♁33'08	3°23'18
evening max el	1909 Jan 27 03:18	25°♁01'31	18°27'04	minimum elong	1910 Jan 26 06:53	5°♁39'59	3°22'56
retrograde	1909 Feb 02 15:51	28°♁35'46		min. Earth dist.	1910 Jan 27 21:55	3°♁36'56	0.65792 AU
evening set	1909 Feb 05 15:43	27°♁46'15			1910 Jan 31 02:44	30°♁	
inferior conj	1909 Feb 11 14:07	22°♁14'09	3°40'29	morning rise	1910 Jan 31 19:52	29°♁20'15	
minimum elong	1909 Feb 11 13:00	22°♁17'22	3°40'24	direct	1910 Feb 07 06:52	26°♁31'23	
min. Earth dist.	1909 Feb 13 18:18	19°♁42'36	0.64334 AU		1910 Feb 15 13:10	0°♁	
morning rise	1909 Feb 17 08:52	16°♁05'58		morning max el	1910 Feb 20 04:41	4°♁08'13	26°32'38
direct	1909 Feb 24 04:54	13°♁17'02		desc. node	1910 Feb 20 23:30	4°♁56'23	
desc. node	1909 Mar 06 02:28	17°♁46'59			1910 Mar 11 21:34	0°♁	
morning max el	1909 Mar 09 18:45	21°♁08'29	27°26'07	morning set	1910 Mar 28 04:19	27°♁53'52	
	1909 Mar 17 11:31	0°♁			1910 Mar 29 06:52	0°♁	
	1909 Apr 06 01:27	0°♁		max. Earth dist.	1910 Apr 01 09:38	6°♁03'41	1.34747 AU
morning set	1909 Apr 13 22:10	14°♁40'07					
max. Earth dist.	1909 Apr 18 19:50	24°♁34'18	1.33470 AU	superior conj	1910 Apr 05 22:52	15°♁15'57	0°-56'-16
	1909 Apr 21 10:00	0°♁		minimum elong	1910 Apr 06 01:42	15°♁30'34	0°55'45
superior conj	1909 Apr 21 23:39	1°♁12'25	0°-28'-23	asc. node	1910 Apr 11 14:16	27°♁01'49	
minimum elong	1909 Apr 22 01:05	1°♁19'57	0°28'06		1910 Apr 13 00:28	0°♁	
asc. node	1909 Apr 24 17:12	7°♁02'18		evening rise	1910 Apr 13 14:41	1°♁13'44	
evening rise	1909 Apr 29 05:43	16°♁40'21			1910 Apr 30 15:54	0°♁	
	1909 May 05 21:46	0°♁		evening max el	1910 May 02 16:08	2°♁06'40	20°54'54
evening max el	1909 May 20 16:29	21°♁15'51	22°22'44				

retrograde	1910 May 14 05:30	7°II44'19		evening rise	1911 Mar 28 19:08	15°Y27'58	
evening set	1910 May 16 09:52	7°II33'02		asc. node	1911 Mar 29 11:20	16°Y49'32	
desc. node	1910 May 19 22:42	6°II31'24			1911 Apr 05 09:04	0°8	
inferior conj	1910 May 25 17:07	3°II35'11	-1°-40'-9	evening max el	1911 Apr 15 03:32	13°835'30	19°43'24
minimum elong	1910 May 25 12:24	3°II41'53	1°38'29	retrograde	1911 Apr 24 23:09	18°819'49	
min. Earth dist.	1910 May 26 11:46	3°II08'41	0.54933 AU	evening set	1911 Apr 26 23:50	18°808'34	
	1910 Jun 01 23:39	30°8		inferior conj	1911 May 05 17:50	14°806'19	0°18'43
morning rise	1910 Jun 03 14:18	29°831'25		minimum elong	1911 May 05 18:39	14°805'02	0°18'25
direct	1910 Jun 07 01:50	29°805'18		desc. node	1911 May 06 19:45	13°825'46	
	1910 Jun 12 00:14	0°II		min. Earth dist.	1911 May 08 01:54	12°839'07	0.55646 AU
morning max el	1910 Jun 20 02:24	5°II19'38	22°47'56	morning rise	1911 May 14 10:01	9°833'18	
	1910 Jul 07 03:28	0°8		direct	1911 May 18 18:36	8°851'01	
asc. node	1910 Jul 08 13:30	2°845'09		morning max el	1911 Jun 01 17:31	15°850'03	24°29'55
morning set	1910 Jul 12 12:18	10°848'29			1911 Jun 13 01:26	0°II	
				asc. node	1911 Jun 25 10:33	22°II28'45	
superior conj	1910 Jul 19 16:13	26°804'58	1°33'54	morning set	1911 Jun 27 00:09	25°II45'04	
minimum elong	1910 Jul 19 14:08	25°853'54	1°33'43		1911 Jun 28 23:59	0°8	
	1910 Jul 21 12:38	0°8					
max. Earth dist.	1910 Jul 22 13:22	2°809'26	1.33992 AU	superior conj	1911 Jul 04 00:55	10°856'31	1°19'41
evening rise	1910 Jul 27 11:44	12°809'49		minimum elong	1911 Jul 03 22:30	10°843'27	1°19'20
	1910 Aug 06 04:37	0°8		max. Earth dist.	1911 Jul 05 17:06	14°834'01	1.32998 AU
desc. node	1910 Aug 15 22:02	15°821'55		evening rise	1911 Jul 11 08:43	26°826'00	
	1910 Aug 27 06:42	0°8			1911 Jul 13 03:20	0°8	
evening max el	1910 Aug 30 23:01	3°848'03	27°13'46		1911 Jul 30 13:41	0°8	
retrograde	1910 Sep 13 08:37	11°806'51		desc. node	1911 Aug 02 19:03	4°832'03	
evening set	1910 Sep 20 07:51	8°823'47		evening max el	1911 Aug 13 09:24	16°852'41	27°25'49
min. Earth dist.	1910 Sep 24 03:29	4°846'14	0.64832 AU	retrograde	1911 Aug 27 02:25	24°810'20	
inferior conj	1910 Sep 26 08:09	2°821'13	-2°-39'-25	evening set	1911 Sep 03 07:04	21°834'58	
minimum elong	1910 Sep 26 12:21	2°809'37	2°37'56	min. Earth dist.	1911 Sep 06 22:01	18°829'43	0.63216 AU
	1910 Sep 28 13:20	30°8		inferior conj	1911 Sep 09 15:08	15°848'21	-3°-34'-28
morning rise	1910 Oct 02 18:43	26°848'50		minimum elong	1911 Sep 09 20:21	15°835'23	3°32'58
asc. node	1910 Oct 04 12:42	26°816'58		morning rise	1911 Sep 16 12:05	10°833'24	
direct	1910 Oct 05 09:16	26°813'04		direct	1911 Sep 18 22:23	10°805'25	
morning max el	1910 Oct 11 21:23	29°841'38	18°03'20	asc. node	1911 Sep 21 09:44	10°835'03	
	1910 Oct 12 04:36	0°8		morning max el	1911 Sep 25 13:32	13°831'17	17°51'45
morning set	1910 Oct 29 15:48	26°830'03			1911 Oct 06 20:49	0°8	
	1910 Oct 31 18:09	0°8		morning set	1911 Oct 11 22:16	8°849'40	
desc. node	1910 Nov 11 21:20	18°811'41					
				superior conj	1911 Oct 23 20:57	29°820'04	0°39'20
superior conj	1910 Nov 12 14:33	19°820'34	0°-4'-50	minimum elong	1911 Oct 24 00:42	29°835'40	0°38'49
minimum elong	1910 Nov 12 13:57	19°818'10	0°04'45		1911 Oct 24 06:33	0°8	
behind sun begin	1910 Nov 12 03:43	18°837'15		desc. node	1911 Oct 29 18:22	8°858'56	
behind sun end	1910 Nov 13 00:11	19°859'02		max. Earth dist.	1911 Oct 30 07:31	9°851'54	1.43843 AU
max. Earth dist.	1910 Nov 16 15:08	25°844'02	1.44840 AU	evening rise	1911 Nov 08 09:23	24°809'00	
	1910 Nov 19 08:12	0°8			1911 Nov 12 04:56	0°8	
evening rise	1910 Nov 29 01:13	15°805'59		greatest brilliancy	1911 Dec 02 09:47	29°809'10	-0.5m
	1910 Dec 08 18:22	0°8			1911 Dec 03 01:44	0°8	
greatest brilliancy	1910 Dec 17 14:17	12°859'39	-0.6m	evening max el	1911 Dec 07 19:18	5°828'30	20°59'28
evening max el	1910 Dec 24 18:58	21°857'50	19°54'11	retrograde	1911 Dec 16 06:10	10°829'00	
asc. node	1910 Dec 31 12:00	26°818'34		asc. node	1911 Dec 18 09:01	10°803'58	
retrograde	1911 Jan 01 08:26	26°822'36		evening set	1911 Dec 20 05:38	8°859'12	
evening set	1911 Jan 04 22:15	25°807'52		inferior conj	1911 Dec 25 15:40	2°845'02	2°17'36
inferior conj	1911 Jan 10 10:23	19°804'40	2°54'50	minimum elong	1911 Dec 25 13:09	2°853'41	2°16'47
minimum elong	1911 Jan 10 07:46	19°813'23	2°54'10	min. Earth dist.	1911 Dec 26 02:00	2°809'29	0.67509 AU
min. Earth dist.	1911 Jan 11 09:15	17°848'28	0.66847 AU		1911 Dec 27 16:35	30°8	
morning rise	1911 Jan 15 16:38	12°849'34		morning rise	1911 Dec 30 20:15	26°829'51	
direct	1911 Jan 21 14:44	10°812'07		direct	1912 Jan 05 03:33	24°811'23	
morning max el	1911 Feb 02 13:37	17°819'48	25°17'34		1912 Jan 15 07:15	0°8	
desc. node	1911 Feb 07 20:33	23°813'22		morning max el	1912 Jan 15 21:59	0°836'37	23°51'10
	1911 Feb 13 04:03	0°8		desc. node	1912 Jan 25 17:36	12°818'20	
	1911 Mar 04 21:14	0°8			1912 Feb 07 02:24	0°8	
morning set	1911 Mar 10 18:11	10°815'39		morning set	1912 Feb 20 09:44	21°828'53	
max. Earth dist.	1911 Mar 14 11:46	17°807'15	1.36470 AU	max. Earth dist.	1912 Feb 24 07:04	28°815'27	1.38527 AU
					1912 Feb 25 06:32	0°8	
superior conj	1911 Mar 20 13:06	28°848'30	-1°-22'-45				
minimum elong	1911 Mar 20 17:04	29°808'08	1°22'11	superior conj	1912 Mar 02 14:44	11°840'43	-1°-45'-24
	1911 Mar 21 03:30	0°8		minimum elong	1912 Mar 02 18:57	12°800'40	1°45'01

evening rise	1912 Mar 11 16:28	29°♄16'13		minimum elong	1913 Feb 13 01:44	23°♁51'54	2°00'43
	1912 Mar 12 01:26	0°♃			1913 Feb 16 10:43	0°♄	
asc. node	1912 Mar 15 08:22	6°♃20'33		evening rise	1913 Feb 23 03:27	12°♄29'39	
evening max el	1912 Mar 28 01:47	25°♃43'27	18°51'22	asc. node	1913 Mar 02 05:23	25°♄28'09	
retrograde	1912 Apr 05 08:26	29°♃44'47			1913 Mar 04 22:35	0°♃	
evening set	1912 Apr 07 13:27	29°♃28'44		evening max el	1913 Mar 11 07:55	8°♃22'22	18°19'28
inferior conj	1912 Apr 15 12:30	25°♃09'59	1°56'50	retrograde	1913 Mar 18 12:57	11°♃57'21	
minimum elong	1912 Apr 15 16:19	25°♃03'04	1°55'42	evening set	1913 Mar 20 23:31	11°♃33'42	
min. Earth dist.	1912 Apr 18 18:14	22°♃50'35	0.57172 AU	inferior conj	1913 Mar 28 04:28	6°♃53'52	3°01'31
desc. node	1912 Apr 22 16:46	20°♃28'30		minimum elong	1913 Mar 28 08:02	6°♃46'18	3°00'48
morning rise	1912 Apr 23 14:52	20°♃03'08		min. Earth dist.	1913 Mar 31 14:49	4°♃01'05	0.59180 AU
direct	1912 Apr 29 00:53	18°♃52'19		morning rise	1913 Apr 04 12:45	1°♃18'59	
morning max el	1912 May 13 08:33	26°♃20'22	26°02'51		1913 Apr 07 15:02	30°♄	
	1912 May 16 19:54	0°♃		desc. node	1913 Apr 09 13:48	29°♄36'29	
	1912 Jun 05 05:10	0°♂		direct	1913 Apr 10 20:05	29°♄32'13	
morning set	1912 Jun 10 11:29	10°♂39'25			1913 Apr 14 02:49	0°♃	
asc. node	1912 Jun 11 07:37	12°♂26'02		morning max el	1913 Apr 25 04:33	7°♃17'08	27°11'47
					1913 May 12 06:15	0°♃	
superior conj	1912 Jun 17 12:02	25°♂53'40	1°01'12	morning set	1913 May 25 20:36	25°♃25'39	
minimum elong	1912 Jun 17 09:48	25°♂41'21	1°00'48		1913 May 28 00:30	0°♂	
max. Earth dist.	1912 Jun 18 02:58	27°♂15'36	1.32404 AU	asc. node	1913 May 29 04:40	2°♂31'33	
	1912 Jun 19 09:00	0°♁					
evening rise	1912 Jun 24 12:51	11°♁02'24		superior conj	1913 Jun 01 23:49	10°♂50'01	0°39'13
	1912 Jul 04 09:00	0°♁		minimum elong	1913 Jun 01 22:10	10°♂41'00	0°38'53
desc. node	1912 Jul 19 16:03	22°♁51'44		max. Earth dist.	1913 Jun 01 15:21	10°♂03'25	1.32189 AU
evening max el	1912 Jul 25 15:41	29°♁21'30	27°05'35	evening rise	1913 Jun 08 21:35	25°♂50'25	
	1912 Jul 26 08:13	0°♄			1913 Jun 10 21:31	0°♁	
retrograde	1912 Aug 08 12:58	6°♄35'32			1913 Jun 28 05:37	0°♁	
evening set	1912 Aug 15 14:37	4°♄20'54		desc. node	1913 Jul 06 13:04	10°♁00'10	
min. Earth dist.	1912 Aug 19 05:58	1°♄38'25	0.61312 AU	evening max el	1913 Jul 07 15:17	11°♁04'26	26°12'30
	1912 Aug 21 03:21	30°♁		retrograde	1913 Jul 21 15:03	18°♁15'23	
inferior conj	1912 Aug 22 09:26	28°♁53'30	-4°-21'-25	evening set	1913 Jul 28 01:49	16°♁33'33	
minimum elong	1912 Aug 22 14:26	28°♁42'30	4°20'27	min. Earth dist.	1913 Aug 01 04:00	13°♁58'02	0.59250 AU
morning rise	1912 Aug 29 17:11	23°♁59'21		inferior conj	1913 Aug 04 11:27	11°♁27'11	-4°-52'-6
direct	1912 Sep 01 02:11	23°♁36'10		minimum elong	1913 Aug 04 14:05	11°♁22'09	4°51'54
asc. node	1912 Sep 07 06:48	26°♁19'29		morning rise	1913 Aug 12 05:46	6°♁56'20	
morning max el	1912 Sep 08 03:38	27°♁07'26	17°58'47	direct	1913 Aug 14 16:14	6°♁35'53	
	1912 Sep 10 17:07	0°♄		morning max el	1913 Aug 22 12:38	10°♁22'13	18°25'46
morning set	1912 Sep 23 23:08	22°♄02'00		asc. node	1913 Aug 25 03:51	13°♁15'56	
	1912 Sep 28 07:27	0°♂			1913 Sep 04 10:58	0°♄	
				morning set	1913 Sep 07 13:11	5°♄52'42	
superior conj	1912 Oct 04 06:28	10°♂39'17	1°12'31				
minimum elong	1912 Oct 04 10:59	10°♂59'03	1°11'59	superior conj	1913 Sep 16 15:31	23°♄08'37	1°33'35
max. Earth dist.	1912 Oct 11 19:39	23°♂30'54	1.42279 AU	minimum elong	1913 Sep 16 18:42	23°♄23'17	1°33'19
desc. node	1912 Oct 15 15:21	29°♂45'24			1913 Sep 20 10:03	0°♂	
	1912 Oct 15 18:58	0°♄		max. Earth dist.	1913 Sep 24 02:37	6°♂29'11	1.40341 AU
evening rise	1912 Oct 18 01:10	3°♄36'28		evening rise	1913 Sep 28 13:34	14°♂01'44	
	1912 Nov 04 14:46	0°♄		desc. node	1913 Oct 02 12:22	20°♂28'05	
greatest brilliancy	1912 Nov 14 21:01	13°♄41'38	-0.3m		1913 Oct 08 14:53	0°♄	
evening max el	1912 Nov 19 14:06	19°♄00'02	22°14'33		1913 Oct 30 18:07	0°♄	
retrograde	1912 Nov 29 02:15	24°♄39'14		evening max el	1913 Nov 02 04:35	2°♄34'18	23°34'16
evening set	1912 Dec 03 13:19	22°♄52'48		retrograde	1913 Nov 12 19:28	8°♄50'46	
asc. node	1912 Dec 04 06:02	22°♄16'30		evening set	1913 Nov 17 19:45	6°♄47'02	
inferior conj	1912 Dec 08 22:50	16°♄31'05	1°33'21	asc. node	1913 Nov 21 03:04	3°♄12'37	
minimum elong	1912 Dec 08 20:52	16°♄37'53	1°32'36	min. Earth dist.	1913 Nov 22 18:28	1°♄01'24	0.67761 AU
min. Earth dist.	1912 Dec 08 21:50	16°♄34'30	0.67805 AU	inferior conj	1913 Nov 23 06:07	0°♄21'34	0°43'31
morning rise	1912 Dec 14 04:15	10°♄17'49		minimum elong	1913 Nov 23 05:07	0°♄25'01	0°43'06
direct	1912 Dec 18 20:24	8°♄21'58			1913 Nov 23 12:26	30°♄	
morning max el	1912 Dec 28 08:48	13°♄58'54	22°23'10	morning rise	1913 Nov 28 14:37	24°♄12'19	
greatest brilliancy	1913 Jan 01 22:33	19°♄05'52	-0.3m	direct	1913 Dec 02 16:26	22°♄39'16	
	1913 Jan 10 05:20	0°♂		morning max el	1913 Dec 11 01:40	27°♄31'20	21°01'34
desc. node	1913 Jan 11 14:36	1°♂56'58			1913 Dec 13 08:51	0°♄	
	1913 Jan 30 01:44	0°♁		greatest brilliancy	1913 Dec 16 13:26	3°♄52'11	-0.5m
morning set	1913 Jan 30 21:08	1°♁18'43		desc. node	1913 Dec 29 11:37	22°♄00'14	
max. Earth dist.	1913 Feb 05 03:48	10°♁03'59	1.40678 AU		1914 Jan 03 19:20	0°♂	
				morning set	1914 Jan 10 05:05	9°♂53'01	
superior conj	1913 Feb 12 23:00	23°♁39'41	-2°00'-48	max. Earth dist.	1914 Jan 18 07:10	22°♂47'46	1.42629 AU

	1914 Jan 22 15:51	0°♁		morning set	1914 Dec 20 01:03	18°♁00'57	
superior conj	1914 Jan 25 08:40	4°♁33'22	-2°-4'-21	max. Earth dist.	1914 Dec 27 17:40	0°♁	
minimum elong	1914 Jan 25 07:22	4°♁27'53	2°04'21		1914 Dec 31 17:37	6°♁19'29	1.44122 AU
evening rise	1914 Feb 06 00:15	25°♁00'09		superior conj	1915 Jan 05 16:02	14°♁15'04	-1°-51'-7
	1914 Feb 08 19:11	0°♁		minimum elong	1915 Jan 05 09:20	13°♁47'54	1°50'41
asc. node	1914 Feb 17 02:24	14°♁04'57			1915 Jan 15 04:28	0°♁	
evening max el	1914 Feb 22 18:46	21°♁23'52	18°07'26	evening rise	1915 Jan 19 02:31	6°♁39'06	
retrograde	1914 Mar 01 09:48	24°♁48'12			1915 Feb 02 10:33	0°♁	
evening set	1914 Mar 04 01:28	24°♁15'26		asc. node	1915 Feb 03 23:26	2°♁01'29	
inferior conj	1914 Mar 10 15:45	19°♁14'24	3°34'53	evening max el	1915 Feb 06 07:20	4°♁40'03	18°14'39
minimum elong	1914 Mar 10 17:29	19°♁10'08	3°34'43	retrograde	1915 Feb 12 18:23	8°♁07'20	
min. Earth dist.	1914 Mar 13 18:38	16°♁12'45	0.61321 AU	evening set	1915 Feb 15 15:03	7°♁24'21	
morning rise	1914 Mar 17 06:41	13°♁20'54		inferior conj	1915 Feb 21 18:20	2°♁03'19	3°43'50
direct	1914 Mar 24 02:24	11°♁00'28		minimum elong	1915 Feb 21 18:08	2°♁03'52	3°43'49
desc. node	1914 Mar 27 10:50	11°♁31'44			1915 Feb 23 15:04	30°♁	
morning max el	1914 Apr 07 07:01	18°♁54'41	27°46'21	min. Earth dist.	1915 Feb 24 07:35	29°♁15'35	0.63317 AU
	1914 Apr 16 16:06	0°♁		morning rise	1915 Feb 27 19:18	25°♁59'02	
	1914 May 05 00:58	0°♁		direct	1915 Mar 06 17:41	23°♁15'57	
morning set	1914 May 10 01:39	9°♁57'26		desc. node	1915 Mar 14 07:52	25°♁56'32	
max. Earth dist.	1914 May 16 02:16	22°♁43'59	1.32358 AU		1915 Mar 19 08:46	0°♁	
asc. node	1914 May 16 01:42	22°♁40'53		morning max el	1915 Mar 20 14:21	1°♁11'47	27°43'34
					1915 Apr 10 19:22	0°♁	
superior conj	1914 May 17 10:33	25°♁39'56	0°14'26	morning set	1915 Apr 24 00:20	24°♁07'14	
minimum elong	1914 May 17 09:53	25°♁36'19	0°14'17		1915 Apr 26 21:40	0°♁	
behind sun begin	1914 May 17 07:39	25°♁24'09		max. Earth dist.	1915 Apr 29 07:43	5°♁03'52	1.32931 AU
behind sun end	1914 May 17 12:06	25°♁48'30					
	1914 May 19 10:03	0°♁		superior conj	1915 May 01 18:29	10°♁17'39	0°-12'-23
evening rise	1914 May 24 08:49	10°♁42'50		minimum elong	1915 May 01 19:05	10°♁20'54	0°12'16
	1914 Jun 03 05:53	0°♁		behind sun begin	1915 May 01 15:42	10°♁02'39	
evening max el	1914 Jun 19 07:50	22°♁01'59	24°52'20	behind sun end	1915 May 01 22:29	10°♁39'10	
desc. node	1914 Jun 23 10:06	25°♁28'12		asc. node	1915 May 02 22:45	12°♁50'04	
retrograde	1914 Jul 03 06:58	29°♁07'05		evening rise	1915 May 08 20:40	25°♁33'21	
evening set	1914 Jul 08 13:19	28°♁03'58			1915 May 10 23:47	0°♁	
min. Earth dist.	1914 Jul 13 19:12	25°♁16'25	0.57280 AU		1915 May 29 10:34	0°♁	
inferior conj	1914 Jul 16 18:01	23°♁19'32	-4°-54'-15	evening max el	1915 May 31 21:40	2°♁34'11	23°17'48
minimum elong	1914 Jul 16 15:51	23°♁23'09	4°54'09	desc. node	1915 Jun 10 07:08	8°♁40'51	
morning rise	1914 Jul 24 22:09	19°♁11'00		retrograde	1915 Jun 14 10:38	9°♁19'58	
direct	1914 Jul 27 12:10	18°♁51'56		evening set	1915 Jun 18 05:01	8°♁48'52	
morning max el	1914 Aug 05 13:23	23°♁05'37	19°13'43	min. Earth dist.	1915 Jun 25 07:32	5°♁34'32	0.55744 AU
	1914 Aug 11 06:30	0°♁		inferior conj	1915 Jun 27 04:51	4°♁27'48	-4°-13'-59
asc. node	1914 Aug 12 00:54	1°♁08'43		minimum elong	1915 Jun 26 21:50	4°♁38'10	4°12'36
morning set	1914 Aug 22 12:23	20°♁10'02		morning rise	1915 Jul 05 17:50	0°♁33'45	
	1914 Aug 27 10:46	0°♁		direct	1915 Jul 08 13:03	0°♁14'42	
				morning max el	1915 Jul 19 03:28	5°♁09'16	20°22'47
superior conj	1914 Aug 30 18:21	6°♁30'49	1°43'55	asc. node	1915 Jul 29 21:58	19°♁45'11	
minimum elong	1914 Aug 30 19:36	6°♁36'56	1°43'53		1915 Aug 04 09:00	0°♁	
max. Earth dist.	1914 Sep 06 06:11	18°♁44'25	1.38285 AU	morning set	1915 Aug 06 17:48	4°♁46'26	
evening rise	1914 Sep 10 02:07	25°♁34'23					
	1914 Sep 12 15:47	0°♁		superior conj	1915 Aug 14 09:57	20°♁31'31	1°45'26
desc. node	1914 Sep 19 09:25	11°♁02'23		minimum elong	1915 Aug 14 09:30	20°♁29'17	1°45'26
	1914 Oct 02 05:54	0°♁			1915 Aug 19 04:38	0°♁	
evening max el	1914 Oct 15 16:45	16°♁11'49	24°52'24	max. Earth dist.	1915 Aug 19 12:09	0°♁36'16	1.36368 AU
retrograde	1914 Oct 27 08:47	22°♁58'57		evening rise	1915 Aug 23 12:14	8°♁08'43	
evening set	1914 Nov 01 23:15	20°♁38'43			1915 Sep 05 09:02	0°♁	
min. Earth dist.	1914 Nov 06 13:33	15°♁27'15	0.67382 AU	desc. node	1915 Sep 06 06:27	1°♁23'15	
inferior conj	1914 Nov 07 11:47	14°♁13'49	0°-10'-36	evening max el	1915 Sep 28 04:45	29°♁51'42	26°01'35
minimum elong	1914 Nov 07 12:03	14°♁12'57	0°10'31		1915 Sep 28 08:11	0°♁	
transit begin	1914 Nov 07 09:57	14°♁19'54		retrograde	1915 Oct 10 17:22	6°♁58'37	
transit end	1914 Nov 07 14:09	14°♁06'00		evening set	1915 Oct 16 22:02	4°♁24'50	
asc. node	1914 Nov 08 00:06	13°♁33'15			1915 Oct 21 01:14	30°♁	
morning rise	1914 Nov 13 01:22	8°♁10'57		min. Earth dist.	1915 Oct 21 04:42	29°♁49'16	0.66668 AU
direct	1914 Nov 16 14:27	6°♁58'31		inferior conj	1915 Oct 22 14:00	28°♁05'07	-1°-7'-43
morning max el	1914 Nov 24 02:16	11°♁14'29	19°51'44	minimum elong	1915 Oct 22 15:47	27°♁59'33	1°07'00
greatest brilliancy	1914 Dec 01 15:14	20°♁30'43	-0.6m	asc. node	1915 Oct 25 21:10	24°♁15'27	
	1914 Dec 08 04:53	0°♁		morning rise	1915 Oct 28 10:29	22°♁11'26	
desc. node	1914 Dec 16 08:40	12°♁20'58		direct	1915 Oct 31 13:00	21°♁16'09	

morning max el	1915 Nov 07 10:08	25°♁06'10	18°56'41	morning set	1916 Nov 08 23:40	7°♁16'29	
	1915 Nov 11 14:08	0°♁		desc. node	1916 Nov 19 02:45	23°♁35'46	
morning set	1915 Nov 29 10:21	26°♁55'50			1916 Nov 23 03:40	0°♁	
	1915 Dec 01 09:18	0°♁					
desc. node	1915 Dec 03 05:42	2°♁54'09		superior conj	1916 Nov 24 02:19	1°♁29'25	0°-32'-56
max. Earth dist.	1915 Dec 14 09:51	20°♁25'49	1.44981 AU	minimum elong	1916 Nov 23 22:03	1°♁12'36	0°32'22
				max. Earth dist.	1916 Nov 26 05:07	4°♁49'22	1.45108 AU
superior conj	1915 Dec 16 00:38	22°♁58'32	-1°-18'-53	evening rise	1916 Dec 10 11:18	27°♁08'18	
minimum elong	1915 Dec 15 15:57	22°♁24'18	1°17'58		1916 Dec 12 07:13	0°♁	
	1915 Dec 20 11:14	0°♁		greatest brilliancy	1916 Dec 25 05:43	19°♁56'02	-0.7m
evening rise	1915 Dec 31 06:26	17°♁20'55			1917 Jan 01 17:07	0°♁	
	1916 Jan 08 01:22	0°♁		evening max el	1917 Jan 03 03:25	1°♁33'35	19°22'43
evening max el	1916 Jan 20 18:58	18°♁04'39	18°40'10	asc. node	1917 Jan 07 17:30	5°♁04'23	
asc. node	1916 Jan 21 20:28	19°♁05'51		retrograde	1917 Jan 10 06:49	5°♁39'58	
retrograde	1916 Jan 27 10:28	21°♁46'24		evening set	1917 Jan 13 16:04	4°♁32'56	
evening set	1916 Jan 30 12:50	20°♁52'02			1917 Jan 18 04:29	30°♁	
inferior conj	1916 Feb 05 08:16	15°♁12'44	3°34'45	inferior conj	1917 Jan 19 06:14	28°♁37'34	3°12'24
minimum elong	1916 Feb 05 06:37	15°♁17'41	3°34'34	minimum elong	1917 Jan 19 03:48	28°♁45'26	3°11'54
min. Earth dist.	1916 Feb 07 05:57	12°♁55'02	0.65004 AU	min. Earth dist.	1917 Jan 20 12:55	26°♁58'18	0.66296 AU
morning rise	1916 Feb 10 23:12	9°♁02'20		morning rise	1917 Jan 24 14:46	22°♁23'47	
direct	1916 Feb 17 16:11	6°♁11'29		direct	1917 Jan 30 20:43	19°♁38'38	
desc. node	1916 Feb 29 04:55	12°♁15'05		morning max el	1917 Feb 12 09:16	27°♁04'00	26°02'45
morning max el	1916 Mar 01 23:49	13°♁58'27	27°06'35		1917 Feb 15 03:21	0°♁	
	1916 Mar 15 00:08	0°♁		desc. node	1917 Feb 15 01:56	29°♁56'04	
	1916 Apr 02 11:00	0°♁			1917 Mar 08 15:34	0°♁	
morning set	1916 Apr 06 13:32	7°♁44'12		morning set	1917 Mar 20 13:20	20°♁37'11	
max. Earth dist.	1916 Apr 11 03:49	16°♁51'29	1.33951 AU	max. Earth dist.	1917 Mar 24 12:29	28°♁07'40	1.35435 AU
					1917 Mar 25 11:35	0°♁	
superior conj	1916 Apr 14 21:32	24°♁35'30	0°-40'-15				
minimum elong	1916 Apr 14 23:33	24°♁46'09	0°39'51	superior conj	1917 Mar 29 17:17	8°♁26'48	-1°-7'-47
	1916 Apr 17 11:00	0°♁		minimum elong	1917 Mar 29 20:39	8°♁43'56	1°07'14
asc. node	1916 Apr 18 19:48	2°♁54'06		asc. node	1917 Apr 05 16:50	22°♁49'01	
evening rise	1916 Apr 22 07:13	10°♁14'27		evening rise	1917 Apr 06 14:31	24°♁40'25	
	1916 May 02 16:14	0°♁			1917 Apr 09 05:43	0°♁	
evening max el	1916 May 12 15:58	13°♁10'14	21°43'52	evening max el	1917 Apr 24 20:26	24°♁15'32	20°22'08
retrograde	1916 May 25 02:33	19°♁16'31		retrograde	1917 May 05 15:47	29°♁29'47	
desc. node	1916 May 27 04:10	19°♁06'51		evening set	1917 May 07 17:17	29°♁19'08	
evening set	1916 May 27 16:10	19°♁01'43		desc. node	1917 May 14 01:10	26°♁56'02	
min. Earth dist.	1916 Jun 05 19:22	15°♁08'05	0.54964 AU	inferior conj	1917 May 16 20:08	25°♁21'10	0°-48'-48
inferior conj	1916 Jun 06 01:20	14°♁59'45	-2°-46'-13	minimum elong	1917 May 16 17:50	25°♁24'31	0°47'59
minimum elong	1916 Jun 05 18:08	15°♁09'50	2°43'57	min. Earth dist.	1917 May 18 08:04	24°♁28'41	0.55129 AU
morning rise	1916 Jun 14 21:06	11°♁05'14		morning rise	1917 May 25 16:28	21°♁06'55	
direct	1916 Jun 18 01:02	10°♁43'13		direct	1917 May 29 12:11	20°♁35'22	
morning max el	1916 Jun 30 06:01	16°♁27'57	21°50'57	morning max el	1917 Jun 11 23:40	27°♁09'29	23°31'27
	1916 Jul 10 18:17	0°♁			1917 Jun 14 18:14	0°♁	
asc. node	1916 Jul 15 19:02	8°♁54'03		asc. node	1917 Jul 02 16:05	28°♁26'53	
morning set	1916 Jul 21 03:09	19°♁35'02			1917 Jul 03 10:27	0°♁	
	1916 Jul 26 01:42	0°♁		morning set	1917 Jul 05 14:35	4°♁30'15	
superior conj	1916 Jul 28 10:23	4°♁58'44	1°39'50	superior conj	1917 Jul 12 16:44	19°♁43'24	1°28'27
minimum elong	1916 Jul 28 08:45	4°♁50'07	1°39'43	minimum elong	1917 Jul 12 14:28	19°♁31'08	1°28'10
max. Earth dist.	1916 Aug 01 02:01	12°♁31'24	1.34755 AU	max. Earth dist.	1917 Jul 15 01:11	24°♁44'42	1.33524 AU
evening rise	1916 Aug 05 15:13	21°♁31'54			1917 Jul 17 13:26	0°♁	
	1916 Aug 10 04:04	0°♁		evening rise	1917 Jul 20 06:40	5°♁31'35	
desc. node	1916 Aug 23 03:29	21°♁24'05			1917 Aug 02 19:31	0°♁	
	1916 Aug 29 04:52	0°♁		desc. node	1917 Aug 10 00:30	10°♁56'02	
evening max el	1916 Sep 09 17:10	13°♁27'09	26°54'05	evening max el	1917 Aug 23 04:48	26°♁46'27	27°22'35
retrograde	1916 Sep 22 20:27	20°♁43'12			1917 Aug 26 22:50	0°♁	
evening set	1916 Sep 29 13:55	18°♁01'21		retrograde	1917 Sep 05 17:37	4°♁04'28	
min. Earth dist.	1916 Oct 03 13:27	14°♁02'48	0.65606 AU	evening set	1917 Sep 12 20:10	1°♁23'14	
inferior conj	1916 Oct 05 10:44	11°♁51'29	-2°-6'-8		1917 Sep 14 12:12	30°♁	
minimum elong	1916 Oct 05 14:06	11°♁41'43	2°04'50	min. Earth dist.	1917 Sep 16 13:29	28°♁00'21	0.64190 AU
morning rise	1916 Oct 11 15:45	6°♁10'13		inferior conj	1917 Sep 18 23:31	25°♁27'19	-3°-3'-25
asc. node	1916 Oct 11 18:13	6°♁07'10		minimum elong	1917 Sep 19 04:16	25°♁14'49	3°01'51
direct	1916 Oct 14 10:01	5°♁28'16		morning rise	1917 Sep 25 14:25	20°♁01'58	
morning max el	1916 Oct 20 23:21	9°♁01'58	18°17'55	direct	1917 Sep 28 02:56	19°♁29'47	
	1916 Nov 04 12:25	0°♁		asc. node	1917 Sep 28 15:17	19°♁31'08	

morning max el	1917 Oct 04 15:17	22° \mathbb{M} 55'49	17°56'12	asc. node	1918 Sep 15 12:19	4° \mathbb{M} 27'58	
	1917 Oct 10 04:48	0° \mathbb{L}		morning max el	1918 Sep 18 07:03	6° \mathbb{M} 41'32	17°52'28
morning set	1917 Oct 21 16:44	18° \mathbb{L} 57'41			1918 Oct 03 08:59	0° \mathbb{L}	
	1917 Oct 28 05:23	0° \mathbb{M}		morning set	1918 Oct 04 07:48	1° \mathbb{L} 42'07	
superior conj	1917 Nov 03 18:17	10° \mathbb{M} 45'50	0°15'02	superior conj	1918 Oct 15 12:29	21° \mathbb{L} 20'37	0°54'54
minimum elong	1917 Nov 03 19:59	10° \mathbb{M} 52'43	0°14'48	minimum elong	1918 Oct 15 16:56	21° \mathbb{L} 39'31	0°54'19
behind sun begin	1917 Nov 03 15:50	10° \mathbb{M} 35'56			1918 Oct 20 16:47	0° \mathbb{M}	
behind sun end	1917 Nov 04 00:07	11° \mathbb{M} 09'31		max. Earth dist.	1918 Oct 22 14:32	3° \mathbb{M} 06'52	1.43237 AU
desc. node	1917 Nov 05 23:46	14° \mathbb{M} 21'44		desc. node	1918 Oct 23 20:48	5° \mathbb{M} 09'19	
max. Earth dist.	1917 Nov 08 23:44	19° \mathbb{M} 09'11	1.44498 AU	evening rise	1918 Oct 30 08:27	15° \mathbb{M} 25'39	
	1917 Nov 15 21:29	0° \mathbb{M}			1918 Nov 08 22:06	0° \mathbb{M}	
evening rise	1917 Nov 19 23:04	6° \mathbb{M} 17'22		greatest brilliancy	1918 Nov 25 05:35	22° \mathbb{M} 51'33	-0.4m
	1917 Dec 05 16:57	0° \mathbb{L}		evening max el	1918 Nov 30 04:41	28° \mathbb{M} 33'34	21°30'22
greatest brilliancy	1917 Dec 10 23:37	7° \mathbb{L} 25'02	-0.5m		1918 Dec 01 16:19	0° \mathbb{L}	
evening max el	1917 Dec 17 06:53	15° \mathbb{L} 03'15	20°20'27	retrograde	1918 Dec 09 02:05	3° \mathbb{L} 50'54	
retrograde	1917 Dec 25 04:44	19° \mathbb{L} 42'32		asc. node	1918 Dec 12 11:33	2° \mathbb{L} 47'15	
asc. node	1917 Dec 25 14:32	19° \mathbb{L} 41'36		evening set	1918 Dec 13 06:13	2° \mathbb{L} 14'09	
evening set	1917 Dec 28 22:30	18° \mathbb{L} 21'23			1918 Dec 15 13:03	30° \mathbb{M}	
inferior conj	1918 Jan 03 09:30	12° \mathbb{L} 12'54	2°39'57	inferior conj	1918 Dec 18 15:50	25° \mathbb{M} 56'01	1°59'35
minimum elong	1918 Jan 03 06:52	12° \mathbb{L} 21'49	2°39'12	minimum elong	1918 Dec 18 13:30	26° \mathbb{M} 04'05	1°58'46
min. Earth dist.	1918 Jan 04 02:45	11° \mathbb{L} 14'27	0.67177 AU	min. Earth dist.	1918 Dec 18 21:12	25° \mathbb{M} 37'28	0.67679 AU
morning rise	1918 Jan 08 14:44	5° \mathbb{L} 57'38		morning rise	1918 Dec 23 20:29	19° \mathbb{M} 41'14	
direct	1918 Jan 14 06:34	3° \mathbb{L} 27'54		direct	1918 Dec 28 21:10	17° \mathbb{M} 32'20	
morning max el	1918 Jan 25 17:52	10° \mathbb{L} 18'25	24°41'37	morning max el	1919 Jan 08 03:01	23° \mathbb{M} 37'44	23°13'18
desc. node	1918 Feb 01 22:58	18° \mathbb{L} 35'06		greatest brilliancy	1919 Jan 13 05:16	29° \mathbb{M} 20'24	-0.3m
	1918 Feb 10 09:24	0° \mathbb{M}			1919 Jan 13 18:13	0° \mathbb{L}	
	1918 Mar 01 07:52	0° \mathbb{M}		desc. node	1919 Jan 19 20:00	7° \mathbb{L} 55'34	
morning set	1918 Mar 02 18:26	2° \mathbb{M} 31'17			1919 Feb 03 19:27	0° \mathbb{M}	
max. Earth dist.	1918 Mar 06 11:14	9° \mathbb{M} 10'08	1.37321 AU	morning set	1919 Feb 11 22:34	13° \mathbb{M} 10'11	
				max. Earth dist.	1919 Feb 16 06:03	20° \mathbb{M} 31'05	1.39446 AU
superior conj	1918 Mar 13 02:36	21° \mathbb{M} 42'50	-1°-33'-1		1919 Feb 21 14:10	0° \mathbb{M}	
minimum elong	1918 Mar 13 06:49	22° \mathbb{M} 03'22	1°32'30	superior conj	1919 Feb 23 21:25	4° \mathbb{M} 13'19	-1°-53'-6
	1918 Mar 17 07:24	0° \mathbb{M}		minimum elong	1919 Feb 24 01:16	4° \mathbb{M} 31'09	1°52'49
evening rise	1918 Mar 21 16:16	8° \mathbb{M} 44'20		evening rise	1919 Mar 05 09:38	22° \mathbb{M} 18'32	
asc. node	1918 Mar 23 13:52	12° \mathbb{M} 30'07			1919 Mar 09 10:42	0° \mathbb{M}	
	1918 Apr 02 13:15	0° \mathbb{L}		asc. node	1919 Mar 10 10:54	1° \mathbb{M} 51'50	
evening max el	1918 Apr 07 12:34	6° \mathbb{L} 00'32	19°18'42	evening max el	1919 Mar 21 14:32	18° \mathbb{M} 22'29	18°35'21
retrograde	1918 Apr 16 15:28	10° \mathbb{L} 25'16		retrograde	1919 Mar 29 09:01	22° \mathbb{M} 10'45	
evening set	1918 Apr 18 17:26	10° \mathbb{L} 12'28		evening set	1919 Mar 31 16:15	21° \mathbb{M} 51'52	
inferior conj	1918 Apr 27 03:31	6° \mathbb{L} 03'45	1°04'08	inferior conj	1919 Apr 08 07:18	17° \mathbb{M} 24'37	2°28'29
minimum elong	1918 Apr 27 06:04	5° \mathbb{L} 59'32	1°03'17	minimum elong	1919 Apr 08 11:19	17° \mathbb{M} 16'48	2°27'26
min. Earth dist.	1918 Apr 29 22:49	4° \mathbb{L} 12'49	0.56210 AU	min. Earth dist.	1919 Apr 11 16:57	14° \mathbb{M} 47'51	0.57981 AU
desc. node	1918 Apr 30 22:10	3° \mathbb{L} 36'16		morning rise	1919 Apr 16 02:04	12° \mathbb{M} 04'17	
morning rise	1918 May 05 14:42	1° \mathbb{L} 16'04		desc. node	1919 Apr 17 19:12	11° \mathbb{M} 21'32	
direct	1918 May 10 09:46	0° \mathbb{L} 23'21		direct	1919 Apr 21 21:57	10° \mathbb{M} 38'25	
morning max el	1918 May 24 14:08	7° \mathbb{L} 36'27	25°11'43	morning max el	1919 May 06 07:03	18° \mathbb{M} 15'53	26°35'59
	1918 Jun 10 01:22	0° \mathbb{L}			1919 May 16 02:25	0° \mathbb{L}	
asc. node	1918 Jun 19 13:08	18° \mathbb{L} 16'59		morning set	1919 Jun 02 11:06	0° \mathbb{L}	
morning set	1918 Jun 20 02:25	19° \mathbb{L} 26'48		asc. node	1919 Jun 04 13:00	4° \mathbb{L} 18'18	
	1918 Jun 24 23:50	0° \mathbb{L}			1919 Jun 06 10:10	8° \mathbb{L} 18'09	
superior conj	1918 Jun 27 02:43	4° \mathbb{L} 38'14	1°12'19	superior conj	1919 Jun 11 14:20	19° \mathbb{L} 35'46	0°52'16
minimum elong	1918 Jun 27 00:19	4° \mathbb{L} 25'09	1°11'56	minimum elong	1919 Jun 11 12:17	19° \mathbb{L} 24'34	0°51'53
max. Earth dist.	1918 Jun 28 07:59	7° \mathbb{L} 17'46	1.32691 AU	max. Earth dist.	1919 Jun 11 19:10	20° \mathbb{L} 02'25	1.32256 AU
evening rise	1918 Jul 04 07:01	19° \mathbb{L} 57'19			1919 Jun 16 08:44	0° \mathbb{L}	
	1918 Jul 09 08:39	0° \mathbb{L}		evening rise	1919 Jun 18 13:22	4° \mathbb{L} 39'17	
desc. node	1918 Jul 27 21:30	29° \mathbb{L} 47'11			1919 Jul 02 02:02	0° \mathbb{L}	
	1918 Jul 28 01:27	0° \mathbb{M}		desc. node	1919 Jul 14 18:32	17° \mathbb{L} 39'34	
evening max el	1918 Aug 05 13:35	9° \mathbb{M} 37'02	27°21'16	evening max el	1919 Jul 18 17:04	21° \mathbb{L} 46'22	26°46'55
retrograde	1918 Aug 19 08:32	16° \mathbb{M} 53'37		retrograde	1919 Aug 01 16:02	29° \mathbb{L} 00'02	
evening set	1918 Aug 26 13:19	14° \mathbb{M} 25'00		evening set	1919 Aug 08 12:49	26° \mathbb{L} 57'58	
min. Earth dist.	1918 Aug 30 03:22	11° \mathbb{M} 31'25	0.62436 AU	min. Earth dist.	1919 Aug 12 07:00	24° \mathbb{L} 20'37	0.60434 AU
inferior conj	1918 Sep 02 01:32	8° \mathbb{M} 46'22	-3°-55'-47	inferior conj	1919 Aug 15 13:19	21° \mathbb{L} 39'00	-4°-37'-4
minimum elong	1918 Sep 02 06:52	8° \mathbb{M} 33'47	3°54'26	minimum elong	1919 Aug 15 17:38	21° \mathbb{L} 30'03	4°36'27
morning rise	1918 Sep 09 03:07	3° \mathbb{M} 40'15		morning rise	1919 Aug 23 01:40	16° \mathbb{L} 54'47	
direct	1918 Sep 11 12:30	3° \mathbb{M} 14'39					

direct	1919 Aug 25 10:48	16°♊33'09		minimum elong	1920 Jul 27 08:11	3°♊54'22	4°57'23
morning max el	1919 Sep 01 19:25	20°♊09'48	18°07'48		1920 Aug 02 22:10	30°♋	
asc. node	1919 Sep 02 09:22	20°♊44'41		morning rise	1920 Aug 04 05:54	29°♋34'32	
	1919 Sep 09 03:43	0°♌		direct	1920 Aug 06 17:37	29°♋14'49	
morning set	1919 Sep 17 14:51	15°♌12'01			1920 Aug 10 09:13	0°♌	
	1919 Sep 25 14:16	0°♍		morning max el	1920 Aug 15 01:12	3°♌11'38	18°43'31
				asc. node	1920 Aug 19 06:25	8°♌06'18	
superior conj	1919 Sep 27 08:42	3°♍11'30	1°22'51	morning set	1920 Aug 31 09:11	29°♌14'40	
minimum elong	1919 Sep 27 12:48	3°♍29'52	1°22'26		1920 Aug 31 18:29	0°♍	
max. Earth dist.	1919 Oct 04 23:49	16°♍27'02	1.41484 AU				
evening rise	1919 Oct 10 07:58	25°♍14'57		superior conj	1920 Sep 09 01:55	16°♎04'19	1°39'10
desc. node	1919 Oct 10 17:50	25°♍54'43		minimum elong	1920 Sep 09 04:17	16°♎15'31	1°39'01
	1919 Oct 13 07:25	0°♏		max. Earth dist.	1920 Sep 16 04:46	29°♎05'12	1.39467 AU
	1919 Nov 02 19:07	0°♐			1920 Sep 16 17:13	0°♏	
greatest brilliancy	1919 Nov 07 19:52	6°♐25'36	-0.3m	evening rise	1920 Sep 20 06:40	6°♏08'37	
evening max el	1919 Nov 12 21:25	12°♐06'04	22°48'15	desc. node	1920 Sep 26 14:53	16°♏34'11	
retrograde	1919 Nov 22 21:13	18°♐02'03			1920 Oct 05 09:27	0°♏	
evening set	1919 Nov 27 13:36	16°♐08'31		evening max el	1920 Oct 25 10:50	25°♏42'12	24°08'15
asc. node	1919 Nov 29 08:35	14°♐24'15			1920 Oct 30 12:40	0°♐	
inferior conj	1919 Dec 02 23:19	9°♐44'38	1°12'52	retrograde	1920 Nov 05 12:47	2°♐12'20	
minimum elong	1919 Dec 02 21:43	9°♐50'10	1°12'12	evening set	1920 Nov 10 18:59	0°♐01'38	
min. Earth dist.	1919 Dec 02 17:49	10°♐03'40	0.67827 AU		1920 Nov 10 19:45	30°♐	
morning rise	1919 Dec 08 05:46	3°♐32'31		asc. node	1920 Nov 15 05:38	24°♐58'40	
direct	1919 Dec 12 15:39	1°♐46'23		min. Earth dist.	1920 Nov 15 14:06	24°♐30'16	0.67641 AU
morning max el	1919 Dec 21 16:00	7°♐03'49	21°47'10	inferior conj	1920 Nov 16 06:09	23°♐36'05	0°21'03
greatest brilliancy	1919 Dec 26 11:41	12°♐30'49	-0.4m	minimum elong	1920 Nov 16 05:39	23°♐37'48	0°20'49
desc. node	1920 Jan 06 17:03	27°♐45'53		morning rise	1920 Nov 21 16:33	17°♐29'08	
	1920 Jan 08 05:55	0°♑		direct	1920 Nov 25 12:50	16°♐04'59	
morning set	1920 Jan 22 21:34	22°♑25'15		morning max el	1920 Dec 03 11:58	20°♐40'10	20°30'10
	1920 Jan 27 13:49	0°♒		greatest brilliancy	1920 Dec 09 17:15	28°♐01'54	-0.5m
max. Earth dist.	1920 Jan 29 04:41	2°♒40'39	1.41547 AU		1920 Dec 11 04:37	0°♑	
				desc. node	1920 Dec 23 14:06	17°♑57'20	
superior conj	1920 Feb 05 20:46	15°♒46'25	-2°-4'-5		1920 Dec 31 11:22	0°♒	
minimum elong	1920 Feb 05 22:06	15°♒52'17	2°04'03	morning set	1920 Dec 31 21:32	0°♒39'22	
	1920 Feb 13 18:41	0°♓		max. Earth dist.	1921 Jan 10 11:25	15°♒47'17	1.43338 AU
evening rise	1920 Feb 16 15:07	5°♓14'51					
asc. node	1920 Feb 25 07:56	20°♓47'35		superior conj	1921 Jan 16 19:32	26°♒10'00	-2°-1'-2
	1920 Mar 02 19:25	0°♈		minimum elong	1921 Jan 16 15:54	25°♒54'57	2°00'55
evening max el	1920 Mar 03 23:12	1°♈12'55	18°12'02		1921 Jan 19 02:28	0°♈	
retrograde	1920 Mar 10 20:51	4°♈41'13		evening rise	1921 Jan 29 04:34	17°♈24'11	
evening set	1920 Mar 13 09:42	4°♈13'49			1921 Feb 05 10:14	0°♈	
	1920 Mar 19 16:26	30°♈		asc. node	1921 Feb 11 04:58	9°♈08'29	
inferior conj	1920 Mar 20 07:59	29°♈25'13	3°19'06	evening max el	1921 Feb 15 11:12	14°♈21'45	18°08'12
minimum elong	1920 Mar 20 10:51	29°♈18'43	3°18'38	retrograde	1921 Feb 21 23:12	17°♈45'27	
min. Earth dist.	1920 Mar 23 16:27	26°♈25'24	0.60094 AU	evening set	1921 Feb 24 17:06	17°♈08'16	
morning rise	1920 Mar 27 08:35	23°♈41'28		inferior conj	1921 Mar 03 02:16	11°♈58'26	3°41'12
direct	1920 Apr 02 22:39	21°♈39'06		minimum elong	1921 Mar 03 03:09	11°♈56'10	3°41'09
desc. node	1920 Apr 03 16:13	21°♈40'34		min. Earth dist.	1921 Mar 05 23:46	9°♈00'33	0.62208 AU
morning max el	1920 Apr 17 05:40	29°♈28'59	27°30'56	morning rise	1921 Mar 09 10:50	5°♈59'54	
	1920 Apr 17 18:06	0°♉		direct	1921 Mar 16 08:55	3°♈28'18	
	1920 May 08 23:55	0°♊		desc. node	1921 Mar 21 13:15	4°♈43'13	
morning set	1920 May 18 20:37	18°♊59'03		morning max el	1921 Mar 30 10:19	11°♈23'13	27°49'36
asc. node	1920 May 23 07:13	28°♊25'52			1921 Apr 14 02:12	0°♉	
	1920 May 24 00:32	0°♋			1921 May 01 07:03	0°♊	
max. Earth dist.	1920 May 25 07:16	2°♋48'07	1.32212 AU	morning set	1921 May 02 23:15	3°♋21'52	
				max. Earth dist.	1921 May 08 16:25	15°♋21'21	1.32557 AU
superior conj	1920 May 26 01:53	4°♋30'16	0°29'00				
minimum elong	1920 May 26 00:37	4°♋23'19	0°28'45	superior conj	1921 May 10 11:38	19°♋15'16	0°03'15
evening rise	1920 Jun 01 23:25	19°♋30'06		minimum elong	1921 May 10 11:29	19°♋14'27	0°03'14
	1920 Jun 07 03:02	0°♌		behind sun begin	1921 May 10 06:25	18°♋46'55	
	1920 Jun 26 12:30	0°♍		behind sun end	1921 May 10 16:33	19°♋42'00	
evening max el	1920 Jun 29 13:40	3°♍09'15	25°41'10	asc. node	1921 May 10 04:17	18°♋35'19	
desc. node	1920 Jun 30 15:32	4°♍09'05			1921 May 15 10:09	0°♋	
retrograde	1920 Jul 13 14:05	10°♍18'12		evening rise	1921 May 17 11:09	4°♋22'19	
evening set	1920 Jul 19 14:02	8°♍53'09			1921 May 31 05:12	0°♌	
min. Earth dist.	1920 Jul 24 01:57	6°♍14'22	0.58381 AU	evening max el	1921 Jun 11 04:26	13°♌52'45	24°12'57
inferior conj	1920 Jul 27 07:21	3°♍55'52	-4°-57'-23	desc. node	1921 Jun 17 12:32	18°♌43'48	

retrograde	1921 Jun 25 00:26	20°♄51'00		desc. node	1922 Jun 04 09:33	0°♄47'51	
evening set	1921 Jun 29 15:53	20°♄03'05		retrograde	1922 Jun 05 22:38	0°♄53'18	
min. Earth dist.	1921 Jul 05 15:16	17°♄05'51	0.56557 AU	evening set	1922 Jun 09 03:15	0°♄30'52	
inferior conj	1921 Jul 08 05:17	15°♄29'02	-4°-43'-4		1922 Jun 10 22:13	30°♄	
minimum elong	1921 Jul 08 00:47	15°♄36'06	4°42'32	min. Earth dist.	1922 Jun 17 02:48	27°♄01'35	0.55303 AU
morning rise	1921 Jul 16 13:16	11°♄27'55		inferior conj	1922 Jun 18 08:46	26°♄18'53	-3°-42'-3
direct	1921 Jul 19 05:33	11°♄08'53		minimum elong	1922 Jun 18 00:55	26°♄30'06	3°40'03
morning max el	1921 Jul 28 21:31	15°♄38'08	19°40'37	morning rise	1922 Jun 27 01:09	22°♄27'22	
asc. node	1921 Aug 06 03:30	26°♄18'52		direct	1922 Jun 29 23:28	22°♄07'39	
	1921 Aug 08 07:42	0°♄		morning max el	1922 Jul 11 06:36	27°♄22'19	20°58'24
morning set	1921 Aug 15 11:21	13°♄41'01			1922 Jul 13 20:04	0°♄	
				asc. node	1922 Jul 24 00:34	15°♄09'57	
superior conj	1921 Aug 23 10:42	29°♄44'12	1°45'33	morning set	1922 Jul 30 18:40	28°♄23'08	
minimum elong	1921 Aug 23 11:11	29°♄46'37	1°45'32		1922 Jul 31 13:25	0°♄	
	1921 Aug 23 13:54	0°♄		superior conj	1922 Aug 07 06:28	13°♄57'20	1°43'51
max. Earth dist.	1921 Aug 29 09:07	11°♄09'27	1.37440 AU	minimum elong	1922 Aug 07 05:26	13°♄52'06	1°43'49
evening rise	1921 Sep 02 04:53	18°♄08'30		max. Earth dist.	1922 Aug 11 17:57	22°♄59'32	1.35629 AU
	1921 Sep 09 02:37	0°♄			1922 Aug 15 08:59	0°♄	
desc. node	1921 Sep 13 11:55	7°♄03'27		evening rise	1922 Aug 15 22:41	1°♄04'31	
	1921 Sep 29 16:01	0°♄		desc. node	1922 Aug 31 08:55	27°♄16'28	
evening max el	1921 Oct 07 22:52	9°♄21'36	25°23'26		1922 Sep 02 04:20	0°♄	
retrograde	1921 Oct 20 00:00	16°♄17'51		evening max el	1922 Sep 20 10:49	22°♄59'32	26°26'23
evening set	1921 Oct 25 20:43	13°♄51'17			1922 Oct 01 09:14	0°♄	
min. Earth dist.	1921 Oct 30 07:43	8°♄55'07	0.67121 AU	retrograde	1922 Oct 03 06:17	0°♄11'53	
inferior conj	1921 Oct 31 10:34	7°♄28'18	0°-34'-32		1922 Oct 05 01:45	30°♄	
minimum elong	1921 Oct 31 11:27	7°♄25'27	0°34'10	evening set	1922 Oct 09 16:50	27°♄33'27	
asc. node	1921 Nov 02 02:40	5°♄21'32		min. Earth dist.	1922 Oct 13 20:16	23°♄13'55	0.66257 AU
morning rise	1921 Nov 06 02:53	1°♄29'11		inferior conj	1922 Oct 15 10:40	21°♄17'23	-1°-32'-29
direct	1921 Nov 09 11:17	0°♄24'24		minimum elong	1922 Oct 15 13:08	21°♄09'55	1°31'29
morning max el	1921 Nov 16 15:51	4°♄27'39	19°26'31	asc. node	1922 Oct 19 23:44	16°♄28'02	
greatest brilliancy	1921 Nov 25 14:56	15°♄52'59	-0.7m	morning rise	1922 Oct 21 10:38	15°♄28'54	
	1921 Dec 05 00:28	0°♄		direct	1922 Oct 24 09:18	14°♄39'52	
desc. node	1921 Dec 10 11:10	8°♄24'13		morning max el	1922 Oct 31 02:21	18°♄21'46	18°38'14
morning set	1921 Dec 10 20:28	9°♄00'16			1922 Nov 08 22:32	0°♄	
max. Earth dist.	1921 Dec 24 01:20	29°♄38'37	1.44578 AU	morning set	1922 Nov 20 16:50	18°♄29'23	
	1921 Dec 24 06:45	0°♄		desc. node	1922 Nov 27 08:12	29°♄01'13	
					1922 Nov 27 23:05	0°♄	
superior conj	1921 Dec 27 16:10	5°♄23'40	-1°-39'-40	superior conj	1922 Dec 06 19:08	13°♄53'54	-1°00'-28
minimum elong	1921 Dec 27 07:51	4°♄50'29	1°38'59	minimum elong	1922 Dec 06 11:41	13°♄24'39	0°59'34
evening rise	1922 Jan 10 21:47	28°♄39'56		max. Earth dist.	1922 Dec 06 19:07	13°♄53'47	1.45121 AU
	1922 Jan 11 16:58	0°♄			1922 Dec 17 00:27	0°♄	
asc. node	1922 Jan 29 02:00	26°♄44'25		evening rise	1922 Dec 22 15:41	8°♄57'31	
evening max el	1922 Jan 29 23:40	27°♄42'02	18°23'11		1923 Jan 04 23:40	0°♄	
	1922 Feb 01 17:43	0°♄		evening max el	1923 Jan 13 10:06	11°♄08'26	18°56'13
retrograde	1922 Feb 05 11:36	1°♄14'12		asc. node	1923 Jan 15 23:00	13°♄22'30	
evening set	1922 Feb 08 10:35	0°♄26'25		retrograde	1923 Jan 20 05:59	14°♄59'59	
	1922 Feb 09 04:25	30°♄		evening set	1923 Jan 23 11:00	14°♄00'30	
inferior conj	1922 Feb 14 10:09	24°♄57'01	3°41'49	inferior conj	1923 Jan 29 03:53	8°♄13'55	3°26'41
minimum elong	1922 Feb 14 09:16	24°♄59'33	3°41'46	minimum elong	1923 Jan 29 01:50	8°♄20'19	3°26'22
min. Earth dist.	1922 Feb 16 16:40	22°♄20'53	0.64086 AU	min. Earth dist.	1923 Jan 30 19:02	6°♄11'49	0.65598 AU
morning rise	1922 Feb 20 06:23	18°♄49'37		morning rise	1923 Feb 03 15:39	2°♄01'30	
direct	1922 Feb 27 03:12	16°♄01'49			1923 Feb 06 15:36	30°♄	
desc. node	1922 Mar 08 10:19	20°♄00'41		direct	1923 Feb 10 04:20	29°♄11'39	
morning max el	1922 Mar 12 19:04	23°♄54'47	27°31'38		1923 Feb 13 23:24	0°♄	
	1922 Mar 18 06:32	0°♄		morning max el	1923 Feb 23 05:01	6°♄51'54	26°42'13
	1922 Apr 07 10:22	0°♄		desc. node	1923 Feb 23 07:22	6°♄57'51	
morning set	1922 Apr 16 18:19	17°♄18'41			1923 Mar 13 02:36	0°♄	
max. Earth dist.	1922 Apr 21 18:33	27°♄29'14	1.33317 AU		1923 Mar 30 18:09	0°♄	
	1922 Apr 22 23:19	0°♄		morning set	1923 Mar 31 02:29	0°♄39'28	
				max. Earth dist.	1923 Apr 04 10:03	9°♄03'43	1.34524 AU
superior conj	1922 Apr 24 17:45	3°♄44'52	0°-24'-9	superior conj	1923 Apr 08 18:04	17°♄52'48	0°-52'-4
minimum elong	1922 Apr 24 18:57	3°♄51'16	0°23'55	minimum elong	1923 Apr 08 20:42	18°♄06'25	0°51'35
asc. node	1922 Apr 27 01:19	8°♄42'26		asc. node	1923 Apr 13 22:21	28°♄43'19	
evening rise	1922 May 01 22:41	19°♄09'24			1923 Apr 14 12:58	0°♄	
	1922 May 07 07:03	0°♄					
evening max el	1922 May 23 19:01	24°♄21'30	22°36'47				
	1922 Jun 01 03:08	0°♄					

evening rise	1923 Apr 16 08:09	3°♄45'20		minimum elong	1924 Mar 22 13:39	1°♃49'35	1°18'20
	1923 May 01 05:18	0°♄		evening rise	1924 Mar 30 13:24	18°♃02'43	
evening max el	1923 May 05 17:10	5°♄08'16	21°07'07	asc. node	1924 Mar 30 19:22	18°♃32'55	
retrograde	1923 May 17 12:31	10°♄53'41			1924 Apr 05 16:23	0°♄	
evening set	1923 May 19 18:35	10°♄41'51		evening max el	1924 Apr 17 02:50	16°♄31'03	19°52'50
desc. node	1923 May 22 06:34	10°♄03'05		retrograde	1924 Apr 27 04:28	21°♄22'39	
inferior conj	1923 May 29 02:52	6°♄43'30	-1°-58'-9	evening set	1924 Apr 29 05:04	21°♄11'44	
minimum elong	1923 May 28 21:22	6°♄51'15	1°56'15	inferior conj	1924 May 08 01:37	17°♄11'06	0°01'26
min. Earth dist.	1923 May 29 15:14	6°♄26'03	0.54910 AU	minimum elong	1924 May 08 01:41	17°♄11'00	0°01'25
morning rise	1923 Jun 06 23:54	2°♄42'39		transit begin	1924 May 07 21:44	17°♄17'03	
direct	1923 Jun 10 09:10	2°♄17'52		transit end	1924 May 08 05:38	17°♄04'57	
morning max el	1923 Jun 23 05:07	8°♄24'54	22°32'49	desc. node	1924 May 08 03:35	17°♄08'05	
	1923 Jul 08 12:47	0°♄		min. Earth dist.	1924 May 10 04:59	15°♄52'44	0.55488 AU
asc. node	1923 Jul 10 21:37	4°♄30'08		morning rise	1924 May 16 19:12	12°♄43'16	
morning set	1923 Jul 15 05:07	13°♄15'26		direct	1924 May 21 00:21	12°♄04'05	
				morning max el	1924 Jun 03 20:37	18°♄57'02	24°14'50
superior conj	1923 Jul 22 09:47	28°♄33'32	1°35'38		1924 Jun 13 01:42	0°♄	
minimum elong	1923 Jul 22 07:48	28°♄23'02	1°35'28	asc. node	1924 Jun 26 18:39	24°♄10'51	
	1923 Jul 23 02:07	0°♄		morning set	1924 Jun 28 16:55	28°♄11'37	
max. Earth dist.	1923 Jul 25 11:31	5°♄00'16	1.34178 AU		1924 Jun 29 13:22	0°♄	
evening rise	1923 Jul 30 07:31	14°♄45'02					
	1923 Aug 07 13:33	0°♄		superior conj	1924 Jul 05 17:57	13°♄23'21	1°22'08
desc. node	1923 Aug 18 05:55	17°♄06'07		minimum elong	1924 Jul 05 15:33	13°♄10'24	1°21'48
	1923 Aug 27 22:30	0°♄		max. Earth dist.	1924 Jul 07 14:10	17°♄21'53	1.33127 AU
evening max el	1923 Sep 02 22:55	6°♄28'56	27°09'30	evening rise	1924 Jul 13 03:11	28°♄57'13	
retrograde	1923 Sep 16 07:09	13°♄47'23			1924 Jul 13 15:38	0°♄	
evening set	1923 Sep 23 04:59	11°♄04'22			1924 Jul 30 16:48	0°♄	
min. Earth dist.	1923 Sep 27 01:36	7°♄21'21	0.65043 AU	desc. node	1924 Aug 04 02:56	6°♄22'12	
inferior conj	1923 Sep 29 04:19	4°♄59'39	-2°-30'-48	evening max el	1924 Aug 15 09:48	19°♄38'00	27°25'59
minimum elong	1923 Sep 29 08:19	4°♄48'28	2°29'20	retrograde	1924 Aug 29 01:50	26°♄55'36	
	1923 Oct 04 11:52	30°♄		evening set	1924 Sep 05 06:08	24°♄18'27	
morning rise	1923 Oct 05 13:25	29°♄24'48		min. Earth dist.	1924 Sep 08 21:39	21°♄08'47	0.63479 AU
asc. node	1923 Oct 06 20:48	28°♄57'08		inferior conj	1924 Sep 11 12:55	18°♄29'20	-3°-26'-33
direct	1923 Oct 08 04:47	28°♄47'35		minimum elong	1924 Sep 11 18:02	18°♄16'23	3°25'01
	1923 Oct 11 22:23	0°♄		morning rise	1924 Sep 18 08:16	13°♄11'28	
morning max el	1923 Oct 14 17:04	2°♄17'21	18°06'30	direct	1924 Sep 20 19:04	12°♄42'27	
morning set	1923 Nov 01 18:23	29°♄25'11		asc. node	1924 Sep 22 17:51	13°♄01'11	
	1923 Nov 02 02:47	0°♄		morning max el	1924 Sep 27 09:14	16°♄08'08	17°52'17
desc. node	1923 Nov 14 05:13	19°♄44'43			1924 Oct 07 04:12	0°♄	
				morning set	1924 Oct 13 21:38	11°♄35'38	
superior conj	1923 Nov 16 00:32	22°♄37'35	0°-12'-6		1924 Oct 24 15:59	0°♄	
minimum elong	1923 Nov 15 23:01	22°♄31'31	0°11'54				
behind sun begin	1923 Nov 15 15:37	22°♄02'03		superior conj	1924 Oct 26 03:00	2°♄25'16	0°33'18
behind sun end	1923 Nov 16 06:25	23°♄00'57		minimum elong	1924 Oct 26 06:20	2°♄39'03	0°32'50
max. Earth dist.	1923 Nov 19 13:50	28°♄15'16	1.44929 AU	desc. node	1924 Oct 31 02:14	10°♄31'38	
	1923 Nov 20 16:26	0°♄		max. Earth dist.	1924 Nov 01 06:58	12°♄27'01	1.44033 AU
evening rise	1923 Dec 02 11:50	18°♄24'07		evening rise	1924 Nov 10 20:26	27°♄27'26	
	1923 Dec 10 00:18	0°♄			1924 Nov 12 12:08	0°♄	
greatest brilliancy	1923 Dec 20 03:11	15°♄06'06	-0.6m		1924 Dec 02 23:41	0°♄	
evening max el	1923 Dec 27 16:33	24°♄37'30	19°45'40	greatest brilliancy	1924 Dec 04 03:28	1°♄31'29	-0.5m
asc. node	1924 Jan 02 20:02	28°♄47'54		evening max el	1924 Dec 09 17:44	8°♄07'51	20°49'04
retrograde	1924 Jan 04 03:15	28°♄57'15		retrograde	1924 Dec 18 01:00	13°♄02'34	
evening set	1924 Jan 07 15:48	27°♄44'36		asc. node	1924 Dec 19 17:04	12°♄46'59	
inferior conj	1924 Jan 13 04:24	21°♄43'27	2°59'45	evening set	1924 Dec 21 22:59	11°♄34'59	
minimum elong	1924 Jan 13 01:49	21°♄52'00	2°59'08	inferior conj	1924 Dec 27 09:13	5°♄22'16	2°23'43
min. Earth dist.	1924 Jan 14 05:16	20°♄21'09	0.66713 AU	minimum elong	1924 Dec 27 06:39	5°♄31'03	2°22'54
morning rise	1924 Jan 18 11:08	15°♄28'39		min. Earth dist.	1924 Dec 27 21:19	4°♄40'50	0.67435 AU
direct	1924 Jan 24 11:24	12°♄48'49			1924 Dec 31 15:52	30°♄	
morning max el	1924 Feb 05 13:58	20°♄01'38	25°29'46	morning rise	1925 Jan 01 13:53	29°♄07'06	
desc. node	1924 Feb 10 04:24	25°♄05'47		direct	1925 Jan 06 23:27	26°♄45'32	
	1924 Feb 14 03:18	0°♄			1925 Jan 14 07:16	0°♄	
	1924 Mar 05 05:53	0°♄		morning max el	1925 Jan 17 22:15	3°♄17'18	24°04'23
morning set	1924 Mar 12 19:05	13°♄09'43		desc. node	1925 Jan 27 01:26	14°♄04'05	
max. Earth dist.	1924 Mar 16 13:38	20°♄09'05	1.36188 AU		1925 Feb 07 08:12	0°♄	
	1924 Mar 21 15:37	0°♄		morning set	1925 Feb 22 14:18	24°♄33'31	
					1925 Feb 25 16:53	0°♄	
superior conj	1924 Mar 22 09:49	1°♄30'29	-1°-18'-54	max. Earth dist.	1925 Feb 26 09:36	1°♄14'29	1.38210 AU

superior conj	1925 Mar 05 13:34	14°♄28'53	-1°-42'-22	morning set	1926 Feb 03 06:07	4°♁35'50	
minimum elong	1925 Mar 05 17:50	14°♄49'13	1°41'55	max. Earth dist.	1926 Feb 08 05:47	12°♁55'27	1.40362 AU
	1925 Mar 13 12:36	0°♃					
evening rise	1925 Mar 14 11:57	1°♃54'55		superior conj	1926 Feb 16 00:43	26°♁36'00	-1°-59'-9
asc. node	1925 Mar 17 16:24	8°♃06'28		minimum elong	1926 Feb 16 03:49	26°♁50'02	1°58'59
evening max el	1925 Mar 30 23:34	28°♃32'52	18°57'48		1926 Feb 17 21:30	0°♄	
	1925 Apr 01 15:21	0°♂		evening rise	1926 Feb 26 00:42	15°♄13'47	
retrograde	1925 Apr 08 11:03	2°♂39'45		asc. node	1926 Mar 04 13:26	27°♄17'54	
evening set	1925 Apr 10 15:16	2°♂24'35			1926 Mar 06 02:57	0°♃	
	1925 Apr 15 23:12	30°♃		evening max el	1926 Mar 14 04:43	11°♃07'22	18°22'59
inferior conj	1925 Apr 18 17:10	28°♃08'29	1°44'03	retrograde	1926 Mar 21 12:55	14°♃45'27	
minimum elong	1925 Apr 18 20:46	28°♃02'07	1°42'55	evening set	1926 Mar 23 22:36	14°♃23'07	
min. Earth dist.	1925 Apr 21 20:43	25°♃56'03	0.56908 AU	inferior conj	1926 Mar 31 06:03	9°♃46'30	2°53'54
desc. node	1925 Apr 25 00:37	24°♃00'07		minimum elong	1926 Mar 31 09:48	9°♃38'43	2°53'04
morning rise	1925 Apr 26 22:01	23°♃06'33		min. Earth dist.	1926 Apr 03 16:36	6°♃57'07	0.58857 AU
direct	1925 May 02 04:15	22°♃00'48		morning rise	1926 Apr 07 17:03	4°♃15'00	
morning max el	1925 May 16 11:17	29°♃25'03	25°50'16	desc. node	1926 Apr 11 21:38	2°♃44'20	
	1925 May 17 01:32	0°♂		direct	1926 Apr 13 21:35	2°♃33'46	
	1925 Jun 06 15:23	0°♄		morning max el	1926 Apr 28 06:31	10°♃17'08	27°03'38
morning set	1925 Jun 13 04:26	13°♄06'31			1926 May 13 10:53	0°♂	
asc. node	1925 Jun 13 15:42	14°♄06'02		morning set	1926 May 28 14:03	27°♂54'48	
					1926 May 29 13:51	0°♄	
superior conj	1925 Jun 20 04:51	28°♄19'49	1°04'15	asc. node	1926 May 31 12:45	4°♄10'46	
minimum elong	1925 Jun 20 02:33	28°♄07'13	1°03'51				
	1925 Jun 20 23:07	0°♁		superior conj	1926 Jun 04 16:40	13°♄17'03	0°42'46
max. Earth dist.	1925 Jun 20 23:26	0°♁01'43	1.32470 AU	minimum elong	1926 Jun 04 14:55	13°♄07'23	0°42'25
evening rise	1925 Jun 27 06:26	13°♁30'57		max. Earth dist.	1926 Jun 04 11:44	12°♄49'51	1.32193 AU
	1925 Jul 05 17:52	0°♂		evening rise	1926 Jun 11 14:40	28°♄17'58	
desc. node	1925 Jul 21 23:56	24°♂50'36			1926 Jun 12 10:08	0°♁	
	1925 Jul 26 11:46	0°♃			1926 Jun 29 05:01	0°♂	
evening max el	1925 Jul 28 16:52	2°♃12'51	27°10'41	desc. node	1926 Jul 08 20:57	12°♂11'43	
retrograde	1925 Aug 11 13:27	9°♃27'15		evening max el	1926 Jul 10 17:30	14°♂02'55	26°22'20
evening set	1925 Aug 18 16:20	7°♃08'35		retrograde	1926 Jul 24 17:05	21°♂14'46	
min. Earth dist.	1925 Aug 22 07:05	4°♃23'45	0.61611 AU	evening set	1926 Jul 31 06:57	19°♂27'15	
inferior conj	1925 Aug 25 09:20	1°♃38'21	-4°-15'-8	min. Earth dist.	1926 Aug 04 06:30	16°♂51'57	0.59558 AU
minimum elong	1925 Aug 25 14:29	1°♃26'48	4°14'04	inferior conj	1926 Aug 07 14:03	14°♂17'35	-4°-48'-59
	1925 Aug 27 06:28	30°♂		minimum elong	1926 Aug 07 17:13	14°♂11'24	4°48'42
morning rise	1925 Sep 01 15:30	26°♂41'00		morning rise	1926 Aug 15 06:53	9°♂43'22	
direct	1925 Sep 04 00:34	26°♂17'14		direct	1926 Aug 17 16:54	9°♂22'41	
asc. node	1925 Sep 09 14:55	28°♂33'35		morning max el	1926 Aug 25 09:56	13°♂06'03	18°20'27
morning max el	1925 Sep 10 23:53	29°♂46'58	17°56'33	asc. node	1926 Aug 27 11:58	15°♂20'23	
	1925 Sep 11 05:09	0°♃			1926 Sep 05 20:33	0°♃	
morning set	1925 Sep 26 20:12	24°♃41'24		morning set	1926 Sep 10 08:36	8°♃27'18	
	1925 Sep 29 18:04	0°♄					
superior conj	1925 Oct 07 08:42	13°♄33'22	1°08'15	superior conj	1926 Sep 19 14:41	25°♃53'43	1°31'06
minimum elong	1925 Oct 07 13:17	13°♄53'15	1°07'44	minimum elong	1926 Sep 19 18:08	26°♃09'29	1°30'48
max. Earth dist.	1925 Oct 14 20:06	26°♄12'15	1.42541 AU		1926 Sep 21 20:57	0°♄	
	1925 Oct 17 03:52	0°♃		max. Earth dist.	1926 Sep 27 03:39	9°♄16'25	1.40645 AU
desc. node	1925 Oct 17 23:16	1°♃18'25		evening rise	1926 Oct 01 19:05	17°♄04'32	
evening rise	1925 Oct 21 10:08	6°♃48'50		desc. node	1926 Oct 04 20:19	22°♄02'02	
	1925 Nov 05 18:54	0°♂			1926 Oct 09 21:58	0°♃	
greatest brilliancy	1925 Nov 17 19:52	16°♂18'10	-0.3m		1926 Oct 31 11:01	0°♂	
evening max el	1925 Nov 22 13:18	21°♂38'53	22°02'53	evening max el	1926 Nov 05 04:15	5°♂12'21	23°22'16
retrograde	1925 Dec 01 21:30	27°♂12'21		retrograde	1926 Nov 15 15:18	11°♂23'55	
evening set	1925 Dec 06 06:45	25°♂28'23		evening set	1926 Nov 20 13:30	9°♂22'46	
asc. node	1925 Dec 06 14:08	25°♂13'05		asc. node	1926 Nov 23 11:10	6°♂18'47	
inferior conj	1925 Dec 11 16:14	19°♂07'24	1°40'27	min. Earth dist.	1926 Nov 25 13:34	3°♂32'04	0.67791 AU
minimum elong	1925 Dec 11 14:10	19°♂14'35	1°39'40	inferior conj	1926 Nov 25 23:40	2°♂57'28	0°51'24
min. Earth dist.	1925 Dec 11 16:50	19°♂05'21	0.67785 AU	minimum elong	1926 Nov 25 22:29	3°♂01'30	0°50'55
morning rise	1925 Dec 16 21:24	12°♂53'46			1926 Nov 28 05:05	30°♃	
direct	1925 Dec 21 15:44	10°♂54'36		morning rise	1926 Dec 01 07:34	26°♃47'21	
morning max el	1925 Dec 31 08:35	16°♂38'45	22°36'01	direct	1926 Dec 05 11:22	25°♃11'03	
greatest brilliancy	1926 Jan 04 22:28	21°♂45'26	-0.3m		1926 Dec 13 20:38	0°♂	
	1926 Jan 11 07:27	0°♂		morning max el	1926 Dec 14 00:26	0°♂09'32	21°12'59
desc. node	1926 Jan 13 22:28	3°♂38'02		greatest brilliancy	1926 Dec 19 07:21	6°♂13'53	-0.4m
	1926 Jan 31 10:04	0°♁		desc. node	1926 Dec 31 19:32	23°♂37'59	
					1927 Jan 05 01:58	0°♂	

morning set	1927 Jan 13 17:35	13°☿19'11			1927 Dec 09 09:26	0°♁	
max. Earth dist.	1927 Jan 21 07:42	25°☿29'27	1.42360 AU	desc. node	1927 Dec 18 16:37	13°♁56'46	
	1927 Jan 24 01:13	0°♁		morning set	1927 Dec 23 13:48	21°♁26'36	
					1927 Dec 29 01:48	0°☿	
superior conj	1927 Jan 28 14:02	7°♁39'41	-2°-4'-48	max. Earth dist.	1928 Jan 03 17:08	8°☿55'00	1.43938 AU
minimum elong	1927 Jan 28 13:31	7°♁37'26	2°04'48				
evening rise	1927 Feb 08 23:53	27°♁50'52		superior conj	1928 Jan 09 01:28	17°☿32'41	-1°-54'-21
	1927 Feb 10 04:28	0°♁		minimum elong	1928 Jan 08 19:30	17°☿08'23	1°54'01
asc. node	1927 Feb 19 10:29	15°♁59'47			1928 Jan 16 13:35	0°♁	
evening max el	1927 Feb 25 15:04	24°♁05'49	18°08'04	evening rise	1928 Jan 22 05:13	9°♁38'13	
retrograde	1927 Mar 04 07:34	27°♁30'51			1928 Feb 03 10:22	0°♁	
evening set	1927 Mar 06 22:27	26°♁59'33		asc. node	1928 Feb 06 07:31	4°♁03'18	
inferior conj	1927 Mar 13 14:42	22°♁01'48	3°31'33	evening max el	1928 Feb 09 03:36	7°♁20'37	18°12'23
minimum elong	1927 Mar 13 16:44	21°♁56'53	3°31'19	retrograde	1928 Feb 15 14:35	10°♁46'27	
min. Earth dist.	1927 Mar 16 19:18	18°♁59'44	0.60999 AU	evening set	1928 Feb 18 10:33	10°♁05'00	
morning rise	1927 Mar 20 08:01	16°♁10'29		inferior conj	1928 Feb 24 15:15	4°♁46'56	3°43'41
direct	1927 Mar 27 02:33	13°♁54'19		minimum elong	1928 Feb 24 15:19	4°♁46'45	3°43'42
desc. node	1927 Mar 29 18:41	14°♁14'11		min. Earth dist.	1928 Feb 27 06:46	1°♁55'54	0.63040 AU
morning max el	1927 Apr 10 08:02	21°♁48'04	27°43'39		1928 Feb 29 05:59	30°♁	
	1927 Apr 17 12:24	0°♁		morning rise	1928 Mar 01 18:04	28°♁44'01	
	1927 May 06 11:28	0°♁		direct	1928 Mar 08 16:44	26°♁03'20	
morning set	1927 May 12 19:50	12°♁29'04		desc. node	1928 Mar 15 15:44	28°♁18'32	
asc. node	1927 May 18 09:47	24°♁19'43			1928 Mar 18 02:45	0°♁	
max. Earth dist.	1927 May 18 23:01	25°♁31'47	1.32301 AU	morning max el	1928 Mar 22 14:40	3°♁59'15	27°46'16
					1928 Apr 11 01:55	0°♁	
superior conj	1927 May 20 03:40	28°♁08'16	0°18'22	morning set	1928 Apr 25 19:34	26°♁42'07	
minimum elong	1927 May 20 02:50	28°♁03'43	0°18'11		1928 Apr 27 10:35	0°♁	
	1927 May 21 00:03	0°♁		max. Earth dist.	1928 May 01 05:25	7°♁54'42	1.32817 AU
evening rise	1927 May 27 01:38	13°♁09'59					
	1927 Jun 04 13:38	0°♁		superior conj	1928 May 03 12:06	12°♁47'46	0°-8'-13
evening max el	1927 Jun 22 10:59	25°♁06'38	25°05'39	minimum elong	1928 May 03 12:30	12°♁49'55	0°08'09
desc. node	1927 Jun 25 17:59	27°♁57'10		behind sun begin	1928 May 03 07:58	12°♁25'27	
	1927 Jun 28 19:33	0°♁		behind sun end	1928 May 03 17:02	13°♁14'25	
retrograde	1927 Jul 06 10:50	2°♁13'18		asc. node	1928 May 04 06:49	14°♁28'57	
evening set	1927 Jul 11 22:03	1°♁04'35		evening rise	1928 May 10 13:28	28°♁00'45	
	1927 Jul 14 04:08	30°♁			1928 May 11 12:07	0°♁	
min. Earth dist.	1927 Jul 16 22:37	28°♁19'48	0.57555 AU		1928 May 28 23:03	0°♁	
inferior conj	1927 Jul 19 23:41	26°♁16'38	-4°-56'-27	evening max el	1928 Jun 03 00:50	5°♁40'36	23°32'16
minimum elong	1927 Jul 19 22:21	26°♁18'54	4°56'25	desc. node	1928 Jun 11 14:57	11°♁32'09	
morning rise	1927 Jul 28 02:25	22°♁04'56		retrograde	1928 Jun 16 16:11	12°♁30'04	
direct	1927 Jul 30 15:42	21°♁45'48		evening set	1928 Jun 20 15:53	11°♁55'11	
morning max el	1927 Aug 08 12:08	25°♁54'46	19°05'09	min. Earth dist.	1928 Jun 27 11:07	8°♁45'40	0.55933 AU
	1927 Aug 12 03:43	0°♁		inferior conj	1928 Jun 29 13:14	7°♁30'52	-4°-23'-16
asc. node	1927 Aug 14 09:01	3°♁05'28		minimum elong	1928 Jun 29 06:45	7°♁40'34	4°22'07
morning set	1927 Aug 25 06:37	22°♁40'59		morning rise	1928 Jul 08 00:56	3°♁35'17	
	1927 Aug 28 23:07	0°♁		direct	1928 Jul 10 19:21	3°♁16'16	
				morning max el	1928 Jul 21 03:47	8°♁04'02	20°11'10
superior conj	1927 Sep 02 15:11	9°♁08'42	1°42'58	asc. node	1928 Jul 31 06:04	21°♁35'46	
minimum elong	1927 Sep 02 16:44	9°♁16'10	1°42'53		1928 Aug 04 20:00	0°♁	
max. Earth dist.	1927 Sep 09 07:12	21°♁36'12	1.38592 AU	morning set	1928 Aug 08 11:14	7°♁14'40	
evening rise	1927 Sep 13 04:06	28°♁27'14					
	1927 Sep 14 01:37	0°♁		superior conj	1928 Aug 16 05:05	23°♁03'59	1°45'43
desc. node	1927 Sep 21 17:21	12°♁37'46		minimum elong	1928 Aug 16 04:52	23°♁02'55	1°45'42
	1927 Oct 03 08:38	0°♁			1928 Aug 19 16:59	0°♁	
evening max el	1927 Oct 18 16:42	18°♁49'41	24°41'10	max. Earth dist.	1928 Aug 21 12:33	3°♁30'24	1.36640 AU
retrograde	1927 Oct 30 05:19	25°♁32'52		evening rise	1928 Aug 25 11:14	10°♁52'47	
evening set	1927 Nov 04 17:34	23°♁15'09			1928 Sep 05 16:20	0°♁	
min. Earth dist.	1927 Nov 09 09:06	17°♁58'21	0.67460 AU	desc. node	1928 Sep 07 14:21	3°♁00'49	
inferior conj	1927 Nov 10 05:42	16°♁49'51	0°-2'-9		1928 Sep 27 18:12	0°♁	
minimum elong	1927 Nov 10 05:46	16°♁49'41	0°02'09	evening max el	1928 Sep 30 04:44	2°♁29'43	25°52'12
transit begin	1927 Nov 10 03:02	16°♁58'45		retrograde	1928 Oct 12 14:32	9°♁34'02	
transit end	1927 Nov 10 08:29	16°♁40'37		evening set	1928 Oct 18 17:09	7°♁02'05	
asc. node	1927 Nov 10 08:13	16°♁41'31		min. Earth dist.	1928 Oct 23 00:59	2°♁21'04	0.66797 AU
morning rise	1927 Nov 15 18:23	10°♁45'46		inferior conj	1928 Oct 24 08:33	0°♁41'26	0°-58'-57
direct	1927 Nov 19 09:17	9°♁30'23		minimum elong	1928 Oct 24 10:05	0°♁36'35	0°58'18
morning max el	1927 Nov 26 23:50	13°♁51'07	20°01'11		1928 Oct 24 21:43	30°♁	
greatest brilliancy	1927 Dec 04 03:36	22°♁33'33	-0.6m	asc. node	1928 Oct 27 05:16	27°♁16'43	

morning rise	1928 Oct 30 03:53	24°♁46'10		morning max el	1929 Oct 23 19:16	11°♁37'24	18°22'38
direct	1928 Nov 02 07:52	23°♁48'29			1929 Nov 05 19:29	0°♁	
morning max el	1928 Nov 09 06:40	27°♁41'34	19°03'52	morning set	1929 Nov 12 04:40	10°♁18'34	
	1928 Nov 11 09:05	0°♁		desc. node	1929 Nov 21 10:40	25°♁09'01	
	1928 Dec 01 16:57	0°♁			1929 Nov 24 12:06	0°♁	
morning set	1928 Dec 01 19:47	0°♁11'02		superior conj	1929 Nov 27 14:02	4°♁51'30	0°-40'-18
desc. node	1928 Dec 04 13:39	4°♁28'26		minimum elong	1929 Nov 27 08:50	4°♁31'00	0°39'39
max. Earth dist.	1928 Dec 16 08:58	22°♁58'30	1.44902 AU	max. Earth dist.	1929 Nov 29 04:07	7°♁21'10	1.45139 AU
					1929 Dec 13 14:42	0°♁	
superior conj	1928 Dec 18 12:47	26°♁22'53	-1°-24'-54	evening rise	1929 Dec 13 20:46	0°♁23'52	
minimum elong	1928 Dec 18 03:57	25°♁48'00	1°23'59	greatest brilliancy	1929 Dec 27 11:03	21°♁32'33	-0.7m
	1928 Dec 20 19:37	0°♁			1930 Jan 02 10:25	0°♁	
evening rise	1929 Jan 02 12:39	20°♁28'56		evening max el	1930 Jan 06 00:33	4°♁12'43	19°15'17
	1929 Jan 08 08:09	0°♁		asc. node	1930 Jan 10 01:35	7°♁25'58	
evening max el	1929 Jan 22 15:33	20°♁44'26	18°35'10	retrograde	1930 Jan 13 01:46	8°♁14'59	
asc. node	1929 Jan 23 04:33	21°♁16'32		evening set	1930 Jan 16 09:53	7°♁09'54	
retrograde	1929 Jan 29 05:48	24°♁23'13		inferior conj	1930 Jan 22 00:40	1°♁16'36	3°16'29
evening set	1929 Feb 01 07:18	23°♁30'32		minimum elong	1930 Jan 21 22:19	1°♁24'08	3°16'02
inferior conj	1929 Feb 07 03:42	17°♁53'42	3°37'01		1930 Jan 23 00:30	30°♁	
minimum elong	1929 Feb 07 02:14	17°♁58'03	3°36'52	min. Earth dist.	1930 Jan 23 09:28	29°♁31'25	0.66131 AU
min. Earth dist.	1929 Feb 09 03:39	15°♁31'00	0.64783 AU	morning rise	1930 Jan 27 09:56	25°♁03'06	
morning rise	1929 Feb 12 19:55	11°♁44'04		direct	1930 Feb 02 17:43	22°♁16'32	
direct	1929 Feb 19 14:07	8°♁53'37		morning max el	1930 Feb 15 09:37	29°♁46'02	26°13'35
desc. node	1929 Mar 02 12:47	14°♁22'13			1930 Feb 17 15:08	0°♁	
morning max el	1929 Mar 04 23:58	16°♁42'11	27°13'58	desc. node	1930 Feb 17 09:51	1°♁52'37	
	1929 Mar 16 01:07	0°♁			1930 Mar 09 22:39	0°♁	
	1929 Apr 03 21:21	0°♁		morning set	1930 Mar 23 12:29	23°♁24'48	
morning set	1929 Apr 09 10:23	10°♁24'16			1930 Mar 26 23:36	0°♁	
max. Earth dist.	1929 Apr 14 03:08	19°♁47'23	1.33774 AU	max. Earth dist.	1930 Mar 27 13:42	1°♁08'32	1.35188 AU
superior conj	1929 Apr 17 16:00	27°♁08'43	0°-36'00	superior conj	1930 Apr 01 13:00	11°♁04'25	-1°-3'-43
minimum elong	1929 Apr 17 17:48	27°♁18'15	0°35'39	minimum elong	1930 Apr 01 16:12	11°♁20'43	1°03'10
	1929 Apr 19 00:23	0°♁		asc. node	1930 Apr 08 00:53	24°♁30'21	
asc. node	1929 Apr 21 03:51	4°♁33'47		evening rise	1930 Apr 09 08:15	27°♁12'17	
evening rise	1929 Apr 25 00:19	12°♁43'28			1930 Apr 10 17:05	0°♁	
	1929 May 03 21:34	0°♁		evening max el	1930 Apr 27 20:36	27°♁13'06	20°33'10
evening max el	1929 May 15 17:55	16°♁13'25	21°57'14		1930 May 01 05:31	0°♁	
retrograde	1929 May 28 09:17	22°♁26'43		retrograde	1930 May 08 22:19	2°♁35'41	
desc. node	1929 May 29 11:57	22°♁23'55		evening set	1930 May 11 00:31	2°♁24'57	
evening set	1929 May 31 02:20	22°♁10'21		desc. node	1930 May 16 08:59	0°♁33'31	
min. Earth dist.	1929 Jun 08 22:42	18°♁23'38	0.55020 AU		1930 May 17 11:06	30°♁	
inferior conj	1929 Jun 09 11:04	18°♁06'19	-3°-2'-6	inferior conj	1930 May 20 05:09	28°♁27'17	-1°-7'-7
minimum elong	1929 Jun 09 03:29	18°♁16'56	2°59'49	minimum elong	1930 May 20 01:59	28°♁31'53	1°05'58
morning rise	1929 Jun 18 06:06	14°♁13'19		min. Earth dist.	1930 May 21 11:12	27°♁43'55	0.55038 AU
direct	1929 Jun 21 08:28	13°♁52'02		morning rise	1930 May 29 01:59	24°♁17'08	
morning max el	1929 Jul 03 07:52	19°♁28'44	21°36'56	direct	1930 Jun 01 18:38	23°♁47'45	
	1929 Jul 11 21:07	0°♁			1930 Jun 14 20:09	0°♁	
asc. node	1929 Jul 18 03:07	10°♁40'17		morning max el	1930 Jun 15 02:39	0°♁15'06	23°16'17
morning set	1929 Jul 23 20:08	22°♁02'02			1930 Jul 04 22:10	0°♁	
	1929 Jul 27 15:12	0°♁		asc. node	1930 Jul 05 00:09	0°♁09'54	
superior conj	1929 Jul 31 04:24	7°♁27'58	1°41'05	morning set	1930 Jul 08 07:21	6°♁56'41	
minimum elong	1929 Jul 31 02:54	7°♁20'11	1°41'00				
max. Earth dist.	1929 Aug 04 01:11	15°♁24'31	1.34968 AU	superior conj	1930 Jul 15 10:02	22°♁10'43	1°30'29
evening rise	1929 Aug 08 11:59	24°♁09'31		minimum elong	1930 Jul 15 07:49	21°♁58'49	1°30'16
	1929 Aug 11 14:48	0°♁		max. Earth dist.	1930 Jul 17 22:54	27°♁34'16	1.33673 AU
desc. node	1929 Aug 25 11:19	23°♁05'14			1930 Jul 19 02:44	0°♁	
	1929 Aug 30 06:01	0°♁		evening rise	1930 Jul 23 01:48	8°♁04'23	
evening max el	1929 Sep 12 17:04	16°♁06'35	26°47'36		1930 Aug 04 02:39	0°♁	
retrograde	1929 Sep 25 18:24	23°♁21'41		desc. node	1930 Aug 12 08:19	12°♁42'19	
evening set	1929 Oct 02 10:12	20°♁40'29		evening max el	1930 Aug 26 04:49	29°♁28'49	27°20'07
min. Earth dist.	1929 Oct 06 10:45	16°♁36'33	0.65790 AU		1930 Aug 26 18:04	0°♁	
inferior conj	1929 Oct 08 06:13	14°♁28'57	-1°-57'-17	retrograde	1930 Sep 08 16:32	6°♁47'15	
minimum elong	1929 Oct 08 09:21	14°♁19'45	1°56'03	evening set	1930 Sep 15 18:06	4°♁05'03	
morning rise	1929 Oct 14 09:53	8°♁45'44		min. Earth dist.	1930 Sep 19 12:08	0°♁37'15	0.64422 AU
asc. node	1929 Oct 14 02:19	8°♁55'59			1930 Sep 20 02:16	30°♁	
direct	1929 Oct 17 05:15	8°♁02'02		inferior conj	1930 Sep 21 20:21	28°♁06'46	-2°-54'-57

minimum elong	1930 Sep 22 00:55	27° \mathring{M} 54'32	2°53'23	inferior conj	1931 Sep 05 00:09	11° \mathring{M} 28'34	-3°-48'-25
morning rise	1930 Sep 28 09:44	22° \mathring{M} 38'57		minimum elong	1931 Sep 05 05:29	11° \mathring{M} 15'45	3°47'01
direct	1930 Sep 30 22:53	22° \mathring{M} 05'36		morning rise	1931 Sep 12 00:07	6° \mathring{M} 19'22	
asc. node	1930 Sep 30 23:23	22° \mathring{M} 05'36		direct	1931 Sep 14 09:44	5° \mathring{M} 53'01	
morning max el	1930 Oct 07 11:01	25° \mathring{M} 32'18	17°58'20	asc. node	1931 Sep 17 20:26	6° \mathring{M} 48'40	
	1930 Oct 11 04:45	0° \mathring{M}		morning max el	1931 Sep 21 02:59	9° \mathring{M} 19'26	17°51'50
morning set	1930 Oct 24 17:54	21° \mathring{M} 48'47			1931 Oct 04 18:27	0° \mathring{M}	
	1930 Oct 29 14:35	0° \mathring{M}		morning set	1931 Oct 07 06:05	4° \mathring{M} 24'44	
superior conj	1930 Nov 07 02:49	13° \mathring{M} 58'28	0°08'07	superior conj	1931 Oct 18 16:52	24° \mathring{M} 20'52	0°49'34
minimum elong	1930 Nov 07 03:46	14° \mathring{M} 02'17	0°07'59	minimum elong	1931 Oct 18 21:08	24° \mathring{M} 38'52	0°49'01
behind sun begin	1930 Nov 06 18:42	13° \mathring{M} 25'42			1931 Oct 22 02:08	0° \mathring{M}	
behind sun end	1930 Nov 07 12:49	14° \mathring{M} 38'49		max. Earth dist.	1931 Oct 25 14:06	5° \mathring{M} 43'05	1.43460 AU
desc. node	1930 Nov 08 07:40	15° \mathring{M} 54'33		desc. node	1931 Oct 26 04:41	6° \mathring{M} 41'59	
max. Earth dist.	1930 Nov 11 22:52	21° \mathring{M} 42'13	1.44633 AU	evening rise	1931 Nov 02 18:52	18° \mathring{M} 41'58	
	1930 Nov 17 05:31	0° \mathring{M}			1931 Nov 10 04:27	0° \mathring{M}	
evening rise	1930 Nov 23 10:18	9° \mathring{M} 36'33		greatest brilliancy	1931 Nov 28 01:13	25° \mathring{M} 19'20	-0.4m
	1930 Dec 06 20:57	0° \mathring{M}			1931 Dec 02 00:00	0° \mathring{M}	
greatest brilliancy	1930 Dec 13 14:33	9° \mathring{M} 38'16	-0.6m	evening max el	1931 Dec 03 03:28	1° \mathring{M} 12'37	21°19'25
evening max el	1930 Dec 20 04:48	17° \mathring{M} 42'16	20°11'00	retrograde	1931 Dec 11 21:11	6° \mathring{M} 24'10	
retrograde	1930 Dec 27 23:38	22° \mathring{M} 16'28		asc. node	1931 Dec 14 19:41	5° \mathring{M} 36'18	
asc. node	1930 Dec 27 22:37	22° \mathring{M} 16'28		evening set	1931 Dec 15 23:37	4° \mathring{M} 49'55	
evening set	1930 Dec 31 15:59	20° \mathring{M} 57'35			1931 Dec 20 07:59	30° \mathring{M}	
inferior conj	1931 Jan 06 03:20	14° \mathring{M} 50'49	2°45'28	inferior conj	1931 Dec 21 09:21	28° \mathring{M} 33'05	2°06'11
minimum elong	1931 Jan 06 00:41	14° \mathring{M} 59'42	2°44'43	minimum elong	1931 Dec 21 06:57	28° \mathring{M} 41'24	2°05'20
min. Earth dist.	1931 Jan 06 22:30	13° \mathring{M} 46'12	0.67068 AU	min. Earth dist.	1931 Dec 21 16:27	28° \mathring{M} 08'33	0.67626 AU
morning rise	1931 Jan 11 08:51	8° \mathring{M} 35'32		morning rise	1931 Dec 26 13:55	22° \mathring{M} 18'03	
direct	1931 Jan 17 02:52	6° \mathring{M} 03'01		direct	1931 Dec 31 16:55	20° \mathring{M} 05'42	
morning max el	1931 Jan 28 18:25	12° \mathring{M} 59'59	24°54'24	morning max el	1932 Jan 11 03:12	26° \mathring{M} 18'16	23°26'29
desc. node	1931 Feb 04 06:54	20° \mathring{M} 24'21			1932 Jan 14 12:47	0° \mathring{M}	
	1931 Feb 11 12:27	0° \mathring{M}		greatest brilliancy	1932 Jan 16 22:00	2° \mathring{M} 51'06	-0.2m
	1931 Mar 02 17:28	0° \mathring{M}		desc. node	1932 Jan 22 03:56	9° \mathring{M} 39'31	
morning set	1931 Mar 05 20:50	5° \mathring{M} 29'30			1932 Feb 05 02:36	0° \mathring{M}	
max. Earth dist.	1931 Mar 09 13:37	12° \mathring{M} 11'28	1.37016 AU	morning set	1932 Feb 15 05:04	16° \mathring{M} 20'32	
				max. Earth dist.	1932 Feb 19 08:15	23° \mathring{M} 26'23	1.39122 AU
superior conj	1931 Mar 16 00:09	24° \mathring{M} 26'53	-1°-29'-27		1932 Feb 23 00:50	0° \mathring{M}	
minimum elong	1931 Mar 16 04:18	24° \mathring{M} 47'14	1°28'54	superior conj	1932 Feb 26 21:26	7° \mathring{M} 05'02	-1°-50'-33
	1931 Mar 18 19:31	0° \mathring{M}		minimum elong	1932 Feb 27 01:28	7° \mathring{M} 23'49	1°50'13
evening rise	1931 Mar 24 11:03	11° \mathring{M} 20'30		evening rise	1932 Mar 07 05:51	24° \mathring{M} 59'36	
asc. node	1931 Mar 25 21:55	14° \mathring{M} 14'15			1932 Mar 09 20:21	0° \mathring{M}	
	1931 Apr 03 13:38	0° \mathring{M}		asc. node	1932 Mar 11 18:58	3° \mathring{M} 39'26	
evening max el	1931 Apr 10 11:10	8° \mathring{M} 53'10	19°26'56	evening max el	1932 Mar 23 11:56	21° \mathring{M} 10'26	18°40'34
retrograde	1931 Apr 19 19:51	13° \mathring{M} 24'34		retrograde	1932 Mar 31 10:27	25° \mathring{M} 02'54	
evening set	1931 Apr 21 21:11	13° \mathring{M} 12'27		evening set	1932 Apr 02 16:53	24° \mathring{M} 45'04	
inferior conj	1931 Apr 30 10:08	9° \mathring{M} 06'11	0°48'29	inferior conj	1932 Apr 10 10:42	20° \mathring{M} 20'55	2°17'54
minimum elong	1931 Apr 30 12:08	9° \mathring{M} 02'56	0°47'47	minimum elong	1932 Apr 10 14:43	20° \mathring{M} 13'19	2°16'46
min. Earth dist.	1931 May 03 01:50	7° \mathring{M} 23'20	0.55997 AU	min. Earth dist.	1932 Apr 13 19:22	17° \mathring{M} 49'46	0.57690 AU
desc. node	1931 May 03 06:02	7° \mathring{M} 16'44		morning rise	1932 Apr 18 08:11	15° \mathring{M} 05'09	
morning rise	1931 May 08 23:13	4° \mathring{M} 23'36		desc. node	1932 Apr 19 03:06	14° \mathring{M} 44'39	
direct	1931 May 13 14:32	3° \mathring{M} 34'47		direct	1932 Apr 24 00:45	13° \mathring{M} 44'35	
morning max el	1931 May 27 17:19	10° \mathring{M} 43'24	24°57'20	morning max el	1932 May 08 09:28	21° \mathring{M} 19'05	26°24'55
	1931 Jun 11 07:27	0° \mathring{M}			1932 May 15 22:49	0° \mathring{M}	
asc. node	1931 Jun 21 21:12	19° \mathring{M} 57'51		morning set	1932 Jun 02 23:05	0° \mathring{M}	
morning set	1931 Jun 22 19:15	21° \mathring{M} 53'30		asc. node	1932 Jun 06 06:08	6° \mathring{M} 46'03	
	1931 Jun 26 13:49	0° \mathring{M}			1932 Jun 07 18:14	9° \mathring{M} 57'38	
superior conj	1931 Jun 29 19:38	7° \mathring{M} 04'43	1°15'02	superior conj	1932 Jun 13 07:09	22° \mathring{M} 02'19	0°55'33
minimum elong	1931 Jun 29 17:14	6° \mathring{M} 51'35	1°14'41	minimum elong	1932 Jun 13 05:02	21° \mathring{M} 50'40	0°55'09
max. Earth dist.	1931 Jul 01 04:39	10° \mathring{M} 04'16	1.32790 AU	max. Earth dist.	1932 Jun 13 15:25	22° \mathring{M} 47'51	1.32302 AU
evening rise	1931 Jul 07 01:04	22° \mathring{M} 27'04			1932 Jun 16 22:30	0° \mathring{M}	
	1931 Jul 10 19:56	0° \mathring{M}		evening rise	1932 Jun 20 06:43	7° \mathring{M} 07'20	
	1931 Jul 28 23:24	0° \mathring{M}			1932 Jul 02 08:16	0° \mathring{M}	
desc. node	1931 Jul 30 05:20	1° \mathring{M} 40'30		desc. node	1932 Jul 16 02:22	19° \mathring{M} 43'05	
evening max el	1931 Aug 08 14:09	12° \mathring{M} 24'12	27°23'31	evening max el	1932 Jul 20 18:43	24° \mathring{M} 40'40	26°54'06
retrograde	1931 Aug 22 08:33	19° \mathring{M} 41'25			1932 Jul 27 20:38	0° \mathring{M}	
evening set	1931 Aug 29 13:27	17° \mathring{M} 10'07		retrograde	1932 Aug 03 17:13	1° \mathring{M} 54'27	
min. Earth dist.	1931 Sep 02 03:41	14° \mathring{M} 12'40	0.62713 AU				

	1932 Aug 10 07:32	30°♁		evening max el	1933 Jul 02 16:25	6°♁10'42	25°52'38
evening set	1932 Aug 10 15:54	29°♁47'49		desc. node	1933 Jul 02 23:24	6°♁27'14	
min. Earth dist.	1932 Aug 14 08:53	27°♁08'57	0.60741 AU	retrograde	1933 Jul 16 16:37	13°♁20'12	
inferior conj	1932 Aug 17 14:17	24°♁25'52	-4°-31'-58	evening set	1933 Jul 22 20:39	11°♁49'15	
minimum elong	1932 Aug 17 18:54	24°♁16'05	4°31'13	min. Earth dist.	1933 Jul 27 04:50	9°♁11'59	0.58682 AU
morning rise	1932 Aug 25 01:03	19°♁38'03		inferior conj	1933 Jul 30 11:11	6°♁48'52	-4°-56'-17
direct	1932 Aug 27 10:02	19°♁15'57		minimum elong	1933 Jul 30 12:43	6°♁46'03	4°56'13
morning max el	1932 Sep 03 16:02	22°♁50'40	18°04'15	morning rise	1933 Aug 07 08:17	2°♁24'11	
asc. node	1932 Sep 03 17:28	22°♁54'10		direct	1933 Aug 09 19:32	2°♁04'12	
	1932 Sep 09 07:20	0°♁		morning max el	1933 Aug 17 22:58	5°♁57'06	18°36'52
morning set	1932 Sep 19 11:08	17°♁49'03		asc. node	1933 Aug 21 14:31	10°♁07'05	
	1932 Sep 26 01:15	0°♁			1933 Sep 02 05:44	0°♁	
				morning set	1933 Sep 03 04:01	1°♁47'44	
superior conj	1932 Sep 29 09:29	6°♁01'11	1°19'23				
minimum elong	1932 Sep 29 13:46	6°♁20'12	1°18'56	superior conj	1933 Sep 11 23:56	18°♁45'57	1°37'23
max. Earth dist.	1932 Oct 07 00:24	19°♁10'19	1.41767 AU	minimum elong	1933 Sep 12 02:36	18°♁58'26	1°37'11
desc. node	1932 Oct 12 01:43	27°♁28'04			1933 Sep 18 03:48	0°♁	
evening rise	1932 Oct 12 15:33	28°♁23'34		max. Earth dist.	1933 Sep 19 06:07	1°♁55'51	1.39773 AU
	1932 Oct 13 15:41	0°♁		evening rise	1933 Sep 23 10:35	9°♁07'06	
	1932 Nov 02 20:28	0°♁		desc. node	1933 Sep 28 22:44	18°♁08'42	
greatest brilliancy	1932 Nov 10 00:25	9°♁18'47	-0.3m		1933 Oct 06 15:04	0°♁	
evening max el	1932 Nov 14 20:58	14°♁45'21	22°36'23	evening max el	1933 Oct 28 10:43	28°♁20'51	23°56'26
retrograde	1932 Nov 24 16:40	20°♁35'24			1933 Oct 30 04:27	0°♁	
evening set	1932 Nov 29 07:09	18°♁44'26		retrograde	1933 Nov 08 08:48	4°♁46'15	
asc. node	1932 Nov 30 16:43	17°♁25'56		evening set	1933 Nov 13 12:55	2°♁37'56	
inferior conj	1932 Dec 04 16:47	12°♁21'17	1°20'18		1933 Nov 16 02:07	30°♁	
minimum elong	1932 Dec 04 15:02	12°♁27'18	1°19'37	asc. node	1933 Nov 17 13:45	28°♁07'01	
min. Earth dist.	1932 Dec 04 12:51	12°♁34'51	0.67828 AU	min. Earth dist.	1933 Nov 18 09:17	27°♁01'37	0.67691 AU
morning rise	1932 Dec 09 22:49	6°♁08'41		inferior conj	1933 Nov 18 23:47	26°♁12'24	0°29'09
direct	1932 Dec 14 10:54	4°♁19'05		minimum elong	1933 Nov 18 23:06	26°♁14'45	0°28'52
morning max el	1932 Dec 23 15:20	9°♁43'09	21°59'35	morning rise	1933 Nov 24 09:29	20°♁04'40	
greatest brilliancy	1932 Dec 28 08:14	15°♁00'51	-0.4m	direct	1933 Nov 28 07:41	18°♁37'24	
desc. node	1933 Jan 08 00:59	29°♁26'06		morning max el	1933 Dec 06 10:11	23°♁18'10	20°40'54
	1933 Jan 08 10:25	0°♁			1933 Dec 12 03:43	0°♁	
morning set	1933 Jan 25 08:22	25°♁47'39		greatest brilliancy	1933 Dec 12 08:43	0°♁16'10	-0.5m
	1933 Jan 27 22:39	0°♁		desc. node	1933 Dec 25 22:01	19°♁34'50	
max. Earth dist.	1933 Jan 31 06:09	5°♁28'34	1.41252 AU		1934 Jan 01 18:40	0°♁	
				morning set	1934 Jan 04 10:43	4°♁07'42	
superior conj	1933 Feb 08 00:03	18°♁47'39	-2°-3'-12	max. Earth dist.	1934 Jan 13 11:51	18°♁28'06	1.43104 AU
minimum elong	1933 Feb 08 01:56	18°♁56'00	2°03'10				
	1933 Feb 14 05:06	0°♁		superior conj	1934 Jan 20 02:41	29°♁22'00	-2°-2'-36
evening rise	1933 Feb 18 13:21	8°♁02'04		minimum elong	1934 Jan 19 23:55	29°♁10'23	2°02'32
asc. node	1933 Feb 26 16:02	22°♁39'38			1934 Jan 20 11:44	0°♁	
	1933 Mar 03 10:49	0°♁		evening rise	1934 Feb 01 05:27	20°♁19'07	
evening max el	1933 Mar 06 19:48	3°♁57'00	18°14'13		1934 Feb 06 17:24	0°♁	
retrograde	1933 Mar 13 19:43	7°♁27'12		asc. node	1934 Feb 13 13:04	11°♁06'31	
evening set	1933 Mar 16 07:50	7°♁01'07		evening max el	1934 Feb 18 07:26	17°♁03'24	18°07'30
inferior conj	1933 Mar 23 08:22	2°♁15'34	3°13'23	retrograde	1934 Feb 24 20:17	20°♁27'03	
minimum elong	1933 Mar 23 11:31	2°♁08'38	3°12'50	evening set	1934 Feb 27 13:24	19°♁51'26	
	1933 Mar 25 21:49	30°♁		inferior conj	1934 Mar 06 00:16	14°♁44'33	3°39'20
min. Earth dist.	1933 Mar 26 17:44	29°♁17'44	0.59775 AU	minimum elong	1934 Mar 06 01:27	14°♁41'33	3°39'17
morning rise	1933 Mar 30 11:38	26°♁34'47		min. Earth dist.	1934 Mar 08 23:43	11°♁44'57	0.61901 AU
direct	1933 Apr 05 23:35	24°♁37'49		morning rise	1934 Mar 12 11:00	8°♁47'38	
desc. node	1933 Apr 06 00:09	24°♁37'49		direct	1934 Mar 19 08:25	6°♁19'46	
	1933 Apr 17 15:27	0°♁		desc. node	1934 Mar 23 21:11	7°♁17'04	
morning max el	1933 Apr 20 07:06	2°♁25'56	27°24'59	morning max el	1934 Apr 02 11:03	14°♁14'29	27°49'19
	1933 May 10 07:42	0°♁			1934 Apr 15 04:14	0°♁	
morning set	1933 May 21 14:19	21°♁28'47		morning set	1934 May 02 18:45	0°♁	
	1933 May 25 14:27	0°♁		max. Earth dist.	1934 May 05 17:51	5°♁55'12	
asc. node	1933 May 25 15:18	0°♁04'36		asc. node	1934 May 11 13:38	18°♁11'19	1.32476 AU
max. Earth dist.	1933 May 28 03:44	5°♁34'41	1.32198 AU		1934 May 12 12:21	20°♁14'23	
				superior conj	1934 May 13 04:56	21°♁44'38	0°07'19
superior conj	1933 May 28 18:49	6°♁57'33	0°32'44	minimum elong	1934 May 13 04:36	21°♁42'47	0°07'14
minimum elong	1933 May 28 17:24	6°♁49'49	0°32'25	behind sun begin	1934 May 13 00:00	21°♁17'44	
evening rise	1933 Jun 04 16:21	21°♁57'21		behind sun end	1934 May 13 09:12	22°♁07'51	
	1933 Jun 08 14:12	0°♁			1934 May 16 23:43	0°♁	
	1933 Jun 27 01:12	0°♁					

evening rise	1934 May 20 03:56	6°♂50'05		evening rise	1935 May 04 15:36	21°♄38'22	
	1934 Jun 01 08:22	0°♄			1935 May 08 17:20	0°♂	
evening max el	1934 Jun 14 07:42	16°♄59'07	24°27'00	evening max el	1935 May 26 21:46	27°♂28'06	22°51'05
desc. node	1934 Jun 19 20:24	21°♄22'18			1935 May 29 19:26	0°♄	
retrograde	1934 Jun 28 04:57	24°♄00'07		desc. node	1935 Jun 06 17:26	3°♄51'22	
evening set	1934 Jul 03 01:50	23°♄07'00		retrograde	1935 Jun 09 05:06	4°♄05'29	
min. Earth dist.	1934 Jul 08 18:40	20°♄13'32	0.56800 AU	evening set	1935 Jun 12 14:18	3°♄40'21	
inferior conj	1934 Jul 11 12:12	18°♄29'20	-4°-48'-5	min. Earth dist.	1935 Jun 20 06:24	0°♄16'36	0.55438 AU
minimum elong	1934 Jul 11 08:30	18°♄35'15	4°47'44		1935 Jun 20 17:58	30°♂	
morning rise	1934 Jul 19 18:52	14°♄25'53		inferior conj	1935 Jun 21 18:04	29°♂25'15	-3°-54'-28
direct	1934 Jul 22 10:21	14°♄06'52		minimum elong	1935 Jun 21 10:23	29°♂36'20	3°52'40
morning max el	1934 Jul 31 20:55	18°♄30'14	19°30'43	morning rise	1935 Jun 30 09:18	25°♂33'17	
asc. node	1934 Aug 08 11:34	28°♄13'10		direct	1935 Jul 03 06:24	25°♂13'54	
	1934 Aug 09 13:49	0°♂			1935 Jul 13 22:22	0°♄	
morning set	1934 Aug 18 05:12	16°♂11'25		morning max el	1935 Jul 14 07:45	0°♄21'22	20°45'33
	1934 Aug 25 02:18	0°♄		asc. node	1935 Jul 26 08:36	16°♄59'09	
					1935 Aug 02 01:48	0°♂	
superior conj	1934 Aug 26 06:43	2°♄20'17	1°45'08	morning set	1935 Aug 02 11:53	0°♂51'39	
minimum elong	1934 Aug 26 07:29	2°♄24'00	1°45'07				
max. Earth dist.	1934 Sep 01 10:05	14°♄03'53	1.37734 AU	superior conj	1935 Aug 10 01:06	16°♂29'24	1°44'33
evening rise	1934 Sep 05 05:29	20°♄57'49		minimum elong	1935 Aug 10 00:17	16°♂25'11	1°44'32
	1934 Sep 10 11:29	0°♄		max. Earth dist.	1935 Aug 14 17:44	25°♂53'52	1.35881 AU
desc. node	1934 Sep 15 19:45	8°♄39'57			1935 Aug 16 20:39	0°♄	
	1934 Sep 30 14:46	0°♄		evening rise	1935 Aug 18 20:41	3°♄46'32	
evening max el	1934 Oct 10 22:43	11°♄59'31	25°12'46	desc. node	1935 Sep 02 16:45	28°♄55'54	
retrograde	1934 Oct 22 20:44	18°♄52'49			1935 Sep 03 09:33	0°♄	
evening set	1934 Oct 28 15:18	16°♄28'20		evening max el	1935 Sep 23 10:37	25°♄38'10	26°18'04
min. Earth dist.	1934 Nov 02 03:24	11°♄26'51	0.67222 AU		1935 Sep 28 15:52	0°♄	
inferior conj	1934 Nov 03 04:40	10°♄04'34	0°-25'-56	retrograde	1935 Oct 06 03:54	2°♄49'01	
minimum elong	1934 Nov 03 05:19	10°♄02'25	0°25'40	evening set	1935 Oct 12 12:23	0°♄12'03	
asc. node	1934 Nov 04 10:47	8°♄27'47			1935 Oct 12 18:03	30°♄	
morning rise	1934 Nov 08 19:59	4°♄04'09		min. Earth dist.	1935 Oct 16 16:55	25°♄46'53	0.66408 AU
direct	1934 Nov 12 05:58	2°♄56'49		inferior conj	1935 Oct 18 05:32	23°♄54'32	-1°-23'-37
morning max el	1934 Nov 19 12:56	7°♄04'13	19°35'00	minimum elong	1935 Oct 18 07:45	23°♄47'44	1°22'43
greatest brilliancy	1934 Nov 27 22:03	17°♄36'14	-0.6m	asc. node	1935 Oct 22 07:49	19°♄24'44	
	1934 Dec 06 06:42	0°♄		morning rise	1935 Oct 24 04:15	18°♄04'11	
desc. node	1934 Dec 12 19:02	9°♄59'35		direct	1935 Oct 27 04:11	17°♄13'05	
morning set	1934 Dec 14 08:01	12°♄22'26		morning max el	1935 Nov 02 22:33	20°♄57'44	18°44'19
	1934 Dec 25 14:59	0°♄			1935 Nov 10 01:24	0°♄	
max. Earth dist.	1934 Dec 27 00:35	2°♄12'54	1.44432 AU	morning set	1935 Nov 24 00:17	21°♄39'05	
					1935 Nov 29 07:05	0°♄	
superior conj	1934 Dec 31 02:54	8°♄44'55	-1°-44'-10	desc. node	1935 Nov 29 16:04	0°♄35'23	
minimum elong	1934 Dec 30 19:03	8°♄13'26	1°43'32	max. Earth dist.	1935 Dec 09 17:46	16°♄25'07	1.45084 AU
	1935 Jan 13 01:20	0°♄					
evening rise	1935 Jan 14 01:53	1°♄43'08		superior conj	1935 Dec 10 07:28	17°♄18'58	-1°-7'-16
asc. node	1935 Jan 31 10:05	28°♄50'10		minimum elong	1935 Dec 09 23:27	16°♄47'26	1°06'21
	1935 Feb 01 11:16	0°♄			1935 Dec 18 08:28	0°♄	
evening max el	1935 Feb 01 19:56	0°♄22'21	18°19'48	evening rise	1935 Dec 25 23:18	12°♄09'22	
retrograde	1935 Feb 08 07:25	3°♄52'40			1936 Jan 06 03:32	0°♄	
evening set	1935 Feb 11 05:34	3°♄06'36		evening max el	1936 Jan 16 06:51	13°♄48'36	18°50'15
	1935 Feb 15 03:02	30°♄		asc. node	1936 Jan 18 07:07	15°♄38'17	
inferior conj	1935 Feb 17 06:21	27°♄40'04	3°42'50	retrograde	1936 Jan 23 01:05	17°♄36'34	
minimum elong	1935 Feb 17 05:42	27°♄41'55	3°42'48	evening set	1936 Jan 26 05:07	16°♄38'57	
min. Earth dist.	1935 Feb 19 15:15	24°♄59'31	0.63823 AU	inferior conj	1936 Jan 31 22:51	10°♄54'55	3°29'48
morning rise	1935 Feb 23 04:10	21°♄33'33		minimum elong	1936 Jan 31 20:56	11°♄00'50	3°29'32
direct	1935 Mar 02 01:37	18°♄47'08		min. Earth dist.	1936 Feb 02 16:17	8°♄47'08	0.65398 AU
desc. node	1935 Mar 10 18:13	22°♄16'37		morning rise	1936 Feb 06 11:39	4°♄43'07	
morning max el	1935 Mar 15 19:23	26°♄41'30	27°36'32	direct	1936 Feb 13 01:57	1°♄52'33	
	1935 Mar 18 21:53	0°♄		desc. node	1936 Feb 25 15:15	9°♄01'00	
	1935 Apr 08 18:40	0°♄		morning max el	1936 Feb 26 05:13	9°♄35'40	26°51'15
morning set	1935 Apr 19 14:12	19°♄56'43			1936 Mar 13 06:40	0°♄	
	1935 Apr 24 12:29	0°♄			1936 Mar 31 05:08	0°♄	
max. Earth dist.	1935 Apr 24 16:59	0°♄23'35	1.33169 AU	morning set	1936 Apr 02 00:13	3°♄23'41	
				max. Earth dist.	1936 Apr 06 10:04	12°♄02'29	1.34315 AU
superior conj	1935 Apr 27 11:41	6°♄17'04	0°-19'-55				
minimum elong	1935 Apr 27 12:40	6°♄22'21	0°19'44	superior conj	1936 Apr 10 13:01	20°♄28'50	0°-47'-52
asc. node	1935 Apr 29 09:22	10°♄22'19		minimum elong	1936 Apr 10 15:26	20°♄41'25	0°47'24

	1936 Apr 15 01:45	0°♄		minimum elong	1937 Mar 25 09:56	4°♃30'03	1°14'25
asc. node	1936 Apr 15 06:25	0°♄24'36		evening rise	1937 Apr 02 07:31	20°♃36'55	
evening rise	1936 Apr 18 01:29	6°♄16'20		asc. node	1937 Apr 02 03:28	20°♃16'18	
	1936 May 01 01:30	0°♄			1937 Apr 07 01:09	0°♄	
evening max el	1936 May 07 18:28	8°♄10'33	21°19'38	evening max el	1937 Apr 20 02:21	19°♄27'20	20°02'40
retrograde	1936 May 19 19:26	14°♄03'25		retrograde	1937 Apr 30 10:03	24°♄26'35	
evening set	1936 May 22 03:42	13°♄50'48		evening set	1937 May 02 10:47	24°♄15'51	
desc. node	1936 May 23 14:26	13°♄31'05		desc. node	1937 May 10 11:29	20°♄49'43	
inferior conj	1936 May 31 12:37	9°♄51'34	-2°-15'-47	inferior conj	1937 May 11 09:44	20°♄16'28	0°-16'-11
minimum elong	1936 May 31 06:26	10°♄00'16	2°13'41	minimum elong	1937 May 11 08:59	20°♄17'35	0°15'56
min. Earth dist.	1936 May 31 18:39	9°♄43'06	0.54909 AU	transit begin	1937 May 11 08:53	20°♄17'45	
morning rise	1936 Jun 09 09:20	5°♄53'16		transit end	1937 May 11 09:06	20°♄17'25	
direct	1936 Jun 12 16:35	5°♄29'34		min. Earth dist.	1937 May 13 08:02	19°♄07'02	0.55346 AU
morning max el	1936 Jun 25 07:34	11°♄29'02	22°17'59	morning rise	1937 May 20 04:28	15°♄53'38	
	1936 Jul 08 20:47	0°♄		direct	1937 May 24 06:16	15°♄17'19	
asc. node	1936 Jul 12 05:40	6°♄15'15		morning max el	1937 Jun 06 23:40	22°♄03'52	23°59'47
morning set	1936 Jul 16 21:59	15°♄42'34			1937 Jun 13 22:28	0°♄	
	1936 Jul 23 15:39	0°♄		asc. node	1937 Jun 29 02:43	25°♄53'24	
					1937 Jul 01 02:21	0°♄	
superior conj	1936 Jul 24 03:28	1°♄02'30	1°37'14	morning set	1937 Jul 01 09:43	0°♄38'42	
minimum elong	1936 Jul 24 01:36	0°♄52'37	1°37'06				
max. Earth dist.	1936 Jul 27 09:55	7°♄51'52	1.34371 AU	superior conj	1937 Jul 08 11:05	15°♄50'49	1°24'28
evening rise	1936 Aug 01 03:33	17°♄21'11		minimum elong	1937 Jul 08 08:43	15°♄38'03	1°24'11
	1936 Aug 07 22:59	0°♄		max. Earth dist.	1937 Jul 10 11:28	20°♄10'57	1.33255 AU
desc. node	1936 Aug 19 13:46	18°♄49'40			1937 Jul 15 04:11	0°♄	
	1936 Aug 27 17:43	0°♄		evening rise	1937 Jul 15 21:51	1°♄29'27	
evening max el	1936 Sep 04 22:52	9°♄09'58	27°04'39		1937 Jul 31 21:07	0°♄	
retrograde	1936 Sep 18 05:33	16°♄27'48		desc. node	1937 Aug 06 10:47	8°♄11'54	
evening set	1936 Sep 25 01:54	13°♄45'05		evening max el	1937 Aug 18 10:11	22°♄23'35	27°25'29
min. Earth dist.	1936 Sep 28 23:32	9°♄56'35	0.65246 AU	retrograde	1937 Sep 01 01:08	29°♄41'11	
inferior conj	1936 Oct 01 00:19	7°♄38'25	-2°-22'-2	evening set	1937 Sep 08 04:57	27°♄02'26	
minimum elong	1936 Oct 01 04:06	7°♄27'41	2°20'38	min. Earth dist.	1937 Sep 11 21:03	23°♄48'16	0.63734 AU
morning rise	1936 Oct 07 07:58	2°♄01'11		inferior conj	1937 Sep 14 10:30	21°♄10'56	-3°-18'-26
asc. node	1936 Oct 08 04:53	1°♄40'09		minimum elong	1937 Sep 14 15:30	20°♄58'04	3°16'53
direct	1936 Oct 10 00:17	1°♄22'25		morning rise	1937 Sep 21 04:17	15°♄50'17	
morning max el	1936 Oct 16 12:48	4°♄53'26	18°10'07	direct	1937 Sep 23 15:38	15°♄20'12	
	1936 Nov 02 11:00	0°♄		asc. node	1937 Sep 25 01:56	15°♄30'26	
morning set	1936 Nov 03 21:38	2°♄22'46		morning max el	1937 Sep 30 05:00	18°♄45'50	17°53'17
desc. node	1936 Nov 15 13:04	21°♄18'06			1937 Oct 08 10:12	0°♄	
				morning set	1937 Oct 16 21:32	14°♄24'00	
superior conj	1936 Nov 18 11:06	25°♄56'47	0°-19'-29		1937 Oct 26 01:14	0°♄	
minimum elong	1936 Nov 18 08:37	25°♄46'54	0°19'09				
	1936 Nov 21 00:39	0°♄		superior conj	1937 Oct 29 09:48	5°♄33'30	0°26'58
max. Earth dist.	1936 Nov 21 12:38	0°♄47'11	1.45006 AU	minimum elong	1937 Oct 29 12:38	5°♄45'07	0°26'35
evening rise	1936 Dec 04 22:17	21°♄42'26		desc. node	1937 Nov 02 10:06	12°♄04'52	
	1936 Dec 10 06:40	0°♄		max. Earth dist.	1937 Nov 04 06:34	15°♄03'07	1.44212 AU
greatest brilliancy	1936 Dec 21 14:56	17°♄08'31	-0.7m		1937 Nov 13 19:25	0°♄	
evening max el	1936 Dec 29 14:03	27°♄17'36	19°37'22	evening rise	1937 Nov 14 07:43	0°♄47'22	
	1937 Jan 01 16:41	0°♄			1937 Dec 03 23:51	0°♄	
asc. node	1937 Jan 04 04:10	1°♄15'41		greatest brilliancy	1937 Dec 06 20:22	3°♄51'49	-0.5m
retrograde	1937 Jan 05 22:03	1°♄32'27		evening max el	1937 Dec 12 16:05	10°♄47'52	20°38'49
evening set	1937 Jan 09 09:26	0°♄21'47		retrograde	1937 Dec 20 19:54	15°♄36'57	
	1937 Jan 09 21:28	30°♄		asc. node	1937 Dec 22 01:13	15°♄28'36	
inferior conj	1937 Jan 14 22:32	24°♄22'42	3°04'28	evening set	1937 Dec 24 16:25	14°♄11'35	
minimum elong	1937 Jan 14 20:00	24°♄31'03	3°03'52	inferior conj	1937 Dec 30 02:52	8°♄00'17	2°29'40
min. Earth dist.	1937 Jan 16 01:26	22°♄54'23	0.66576 AU	minimum elong	1937 Dec 30 00:17	8°♄09'08	2°28'52
morning rise	1937 Jan 20 05:50	18°♄08'16		min. Earth dist.	1937 Dec 30 16:44	7°♄12'59	0.67356 AU
direct	1937 Jan 26 08:10	15°♄26'19		morning rise	1938 Jan 04 07:42	1°♄45'07	
morning max el	1937 Feb 07 14:18	22°♄43'45	25°41'36		1938 Jan 06 21:37	30°♄	
desc. node	1937 Feb 11 12:18	26°♄59'38		direct	1938 Jan 09 19:29	29°♄20'38	
	1937 Feb 14 00:26	0°♄			1938 Jan 12 22:30	0°♄	
	1937 Mar 06 14:06	0°♄		morning max el	1938 Jan 20 22:40	5°♄58'56	24°17'29
morning set	1937 Mar 15 19:28	16°♄02'12		desc. node	1938 Jan 29 09:21	15°♄51'15	
max. Earth dist.	1937 Mar 19 15:21	23°♄11'05	1.35918 AU		1938 Feb 08 13:17	0°♄	
	1937 Mar 23 03:41	0°♄		morning set	1938 Feb 25 18:16	27°♄36'43	
					1938 Feb 27 03:01	0°♄	
superior conj	1937 Mar 25 06:16	4°♄11'34	-1°-15'-1	max. Earth dist.	1938 Mar 01 12:14	4°♄14'56	1.37895 AU

superior conj	1938 Mar 08 12:02	17°♃16'16	-1°-39'-10	morning set	1939 Feb 06 14:30	7°♁52'07	
minimum elong	1938 Mar 08 16:19	17°♃36'50	1°38'41	max. Earth dist.	1939 Feb 11 07:50	15°♁48'32	1.40041 AU
	1938 Mar 15 00:02	0°♃					
evening rise	1938 Mar 17 07:15	4°♃33'22		superior conj	1939 Feb 19 01:59	29°♁31'51	-1°-57'-12
asc. node	1938 Mar 20 00:31	9°♃52'42		minimum elong	1939 Feb 19 05:25	29°♁47'28	1°57'01
	1938 Apr 01 13:24	0°♃			1939 Feb 19 08:09	0°♃	
evening max el	1938 Apr 02 21:33	1°♃23'26	19°04'43	evening rise	1939 Feb 28 21:43	17°♃57'57	
retrograde	1938 Apr 11 14:11	5°♃36'19		asc. node	1939 Mar 06 21:34	29°♃08'05	
evening set	1938 Apr 13 17:36	5°♃22'02			1939 Mar 07 09:14	0°♃	
inferior conj	1938 Apr 21 22:22	1°♃08'34	1°30'29	evening max el	1939 Mar 17 01:39	13°♃53'49	18°26'56
minimum elong	1938 Apr 22 01:40	1°♃02'51	1°29'24	retrograde	1939 Mar 24 13:17	17°♃35'16	
	1938 Apr 23 13:56	30°♃		evening set	1939 Mar 26 22:04	17°♃14'14	
min. Earth dist.	1938 Apr 24 23:19	29°♃03'26	0.56650 AU	inferior conj	1939 Apr 03 08:07	12°♃40'54	2°45'27
desc. node	1938 Apr 27 08:32	27°♃34'55		minimum elong	1939 Apr 03 12:00	12°♃33'01	2°44'32
morning rise	1938 Apr 30 05:34	26°♃11'36		min. Earth dist.	1939 Apr 06 18:36	9°♃55'27	0.58541 AU
direct	1938 May 05 07:54	25°♃10'42		morning rise	1939 Apr 10 21:50	7°♃13'03	
	1938 May 16 17:46	0°♃		desc. node	1939 Apr 14 05:35	5°♃56'59	
morning max el	1938 May 19 14:11	2°♃31'09	25°37'13	direct	1939 Apr 16 23:26	5°♃37'17	
	1938 Jun 08 00:32	0°♃		morning max el	1939 May 01 08:38	13°♃18'55	26°54'38
morning set	1938 Jun 15 21:23	15°♃34'24			1939 May 14 13:43	0°♃	
asc. node	1938 Jun 15 23:46	15°♃46'58			1939 May 31 02:45	0°♃	
	1938 Jun 22 13:09	0°♃		morning set	1939 May 31 07:23	0°♃24'12	
				asc. node	1939 Jun 02 20:49	5°♃50'45	
superior conj	1938 Jun 22 21:41	0°♃46'49	1°07'13	superior conj	1939 Jun 07 09:29	15°♃44'32	0°46'15
minimum elong	1938 Jun 22 19:21	0°♃33'59	1°06'49	minimum elong	1939 Jun 07 07:37	15°♃34'16	0°45'52
max. Earth dist.	1938 Jun 23 20:01	2°♃49'01	1.32539 AU	max. Earth dist.	1939 Jun 07 08:01	15°♃36'24	1.32208 AU
evening rise	1938 Jun 30 00:09	16°♃00'34			1939 Jun 13 23:01	0°♃	
	1938 Jul 07 03:21	0°♃		evening rise	1939 Jun 14 07:46	0°♃46'06	
desc. node	1938 Jul 24 07:50	26°♃48'49			1939 Jun 30 06:41	0°♃	
	1938 Jul 26 22:55	0°♃		desc. node	1939 Jul 11 04:51	14°♃21'36	
evening max el	1938 Jul 31 17:55	5°♃04'04	27°15'05	evening max el	1939 Jul 13 19:29	17°♃00'36	26°31'29
retrograde	1938 Aug 14 13:51	12°♃19'08		retrograde	1939 Jul 27 18:54	24°♃13'14	
evening set	1938 Aug 21 17:42	9°♃56'39		evening set	1939 Aug 03 11:30	22°♃20'20	
min. Earth dist.	1938 Aug 25 08:01	7°♃09'07	0.61904 AU	min. Earth dist.	1939 Aug 07 08:49	19°♃44'42	0.59868 AU
inferior conj	1938 Aug 28 08:57	4°♃23'32	-4°-8'-34	inferior conj	1939 Aug 10 16:10	17°♃07'19	-4°-45'-19
minimum elong	1938 Aug 28 14:13	4°♃11'32	4°07'23	minimum elong	1939 Aug 10 19:48	17°♃00'04	4°44'54
	1938 Sep 03 02:58	30°♃		morning rise	1939 Aug 18 07:28	12°♃29'40	
morning rise	1938 Sep 04 13:32	29°♃23'06		direct	1939 Aug 20 17:07	12°♃08'42	
direct	1938 Sep 06 22:39	28°♃58'43		morning max el	1939 Aug 28 07:01	15°♃49'27	18°15'35
	1938 Sep 10 15:38	0°♃		asc. node	1939 Aug 29 20:02	17°♃26'26	
asc. node	1938 Sep 11 22:59	0°♃50'19			1939 Sep 07 04:58	0°♃	
morning max el	1938 Sep 13 20:07	2°♃27'10	17°54'45	morning set	1939 Sep 13 04:09	11°♃02'40	
morning set	1938 Sep 29 17:36	27°♃22'39					
	1938 Oct 01 04:19	0°♃		superior conj	1939 Sep 22 14:11	28°♃40'08	1°28'23
superior conj	1938 Oct 10 11:33	16°♃30'12	1°03'44	minimum elong	1939 Sep 22 17:53	28°♃56'56	1°28'02
minimum elong	1938 Oct 10 16:08	16°♃49'57	1°03'10		1939 Sep 23 07:48	0°♃	
max. Earth dist.	1938 Oct 17 20:27	28°♃53'29	1.42796 AU	max. Earth dist.	1939 Sep 30 04:21	12°♃02'15	1.40942 AU
	1938 Oct 18 12:43	0°♃		evening rise	1939 Oct 05 01:04	20°♃09'03	
desc. node	1938 Oct 20 07:08	2°♃52'00		desc. node	1939 Oct 07 04:10	23°♃36'00	
evening rise	1938 Oct 24 19:38	10°♃03'30			1939 Oct 11 05:20	0°♃	
	1938 Nov 06 23:33	0°♃			1939 Nov 01 07:03	0°♃	
greatest brilliancy	1938 Nov 20 17:38	18°♃52'26	-0.4m	greatest brilliancy	1939 Nov 01 21:30	0°♃44'58	-0.2m
evening max el	1938 Nov 25 12:24	24°♃18'35	21°51'20	evening max el	1939 Nov 08 03:52	7°♃51'17	23°10'21
retrograde	1938 Dec 04 16:46	29°♃46'27		retrograde	1939 Nov 18 11:05	13°♃57'42	
evening set	1938 Dec 09 00:13	28°♃04'57		evening set	1939 Nov 23 07:11	11°♃59'13	
asc. node	1938 Dec 08 22:15	28°♃08'49		asc. node	1939 Nov 25 19:16	9°♃24'47	
inferior conj	1938 Dec 14 09:42	21°♃44'50	1°47'25	min. Earth dist.	1939 Nov 28 08:40	6°♃03'29	0.67809 AU
minimum elong	1938 Dec 14 07:32	21°♃52'21	1°46'37	inferior conj	1939 Nov 28 17:10	5°♃34'14	0°59'10
min. Earth dist.	1938 Dec 14 11:56	21°♃37'08	0.67757 AU	minimum elong	1939 Nov 28 15:49	5°♃38'50	0°58'37
morning rise	1938 Dec 19 14:39	15°♃30'46			1939 Dec 03 07:22	30°♃	
direct	1938 Dec 24 11:09	13°♃28'14		morning rise	1939 Dec 04 00:30	29°♃23'20	
morning max el	1939 Jan 03 08:34	19°♃19'48	22°48'57	direct	1939 Dec 08 06:23	27°♃43'38	
greatest brilliancy	1939 Jan 08 00:12	24°♃31'15	-0.3m		1939 Dec 13 19:16	0°♃	
	1939 Jan 12 07:57	0°♃		morning max el	1939 Dec 16 23:20	2°♃48'44	21°24'42
desc. node	1939 Jan 16 06:23	5°♃20'35		greatest brilliancy	1939 Dec 22 01:50	8°♃38'18	-0.4m
	1939 Feb 01 17:57	0°♃		desc. node	1940 Jan 03 03:25	25°♃17'03	

	1940 Jan 06 07:56	0°☿		direct	1940 Nov 21 04:05	12°♍02'50	
morning set	1940 Jan 17 05:47	16°☿45'43		morning max el	1940 Nov 28 21:29	16°♍28'28	20°11'02
max. Earth dist.	1940 Jan 24 08:25	28°☿13'23	1.42083 AU	greatest brilliancy	1940 Dec 05 16:46	24°♍40'05	-0.6m
	1940 Jan 25 10:14	0°♁			1940 Dec 09 12:45	0°♁	
superior conj	1940 Jan 31 18:54	10°♁45'44	-2°-4'-52	desc. node	1940 Dec 20 00:27	15°♁33'17	
minimum elong	1940 Jan 31 19:05	10°♁46'33	2°04'54	morning set	1940 Dec 26 02:47	24°♁53'59	
	1940 Feb 11 14:01	0°♂			1940 Dec 29 09:35	0°☿	
evening rise	1940 Feb 11 23:10	0°♂41'37		max. Earth dist.	1941 Jan 05 16:55	11°☿32'38	1.43742 AU
asc. node	1940 Feb 21 18:36	17°♂54'53		superior conj	1941 Jan 11 10:20	20°☿49'39	-1°-57'-9
evening max el	1940 Feb 28 11:25	26°♂49'10	18°09'03	minimum elong	1941 Jan 11 05:10	20°☿28'29	1°56'54
	1940 Mar 04 10:09	0°♀			1941 Jan 16 22:36	0°♁	
retrograde	1940 Mar 06 05:32	0°♀15'03		evening rise	1941 Jan 24 07:26	12°♁36'51	
	1940 Mar 08 01:26	30°♂			1941 Feb 03 13:08	0°♂	
evening set	1940 Mar 08 19:41	29°♂45'11		asc. node	1941 Feb 07 15:37	6°♂04'49	
inferior conj	1940 Mar 15 13:58	24°♂50'42	3°27'35	evening max el	1941 Feb 10 23:51	10°♂02'07	18°10'30
minimum elong	1940 Mar 15 16:19	24°♂45'11	3°27'18	retrograde	1941 Feb 17 10:57	13°♂26'47	
min. Earth dist.	1940 Mar 18 20:10	21°♂48'47	0.60682 AU	evening set	1941 Feb 20 06:12	12°♂46'50	
morning rise	1940 Mar 22 09:47	19°♂01'49		inferior conj	1941 Feb 26 12:24	7°♂31'40	3°43'10
direct	1940 Mar 29 02:57	16°♂50'14		minimum elong	1941 Feb 26 12:45	7°♂30'44	3°43'09
desc. node	1940 Mar 31 02:37	17°♂01'10		min. Earth dist.	1941 Mar 01 06:06	4°♂37'49	0.62758 AU
morning max el	1940 Apr 12 09:06	24°♂43'02	27°40'01	morning rise	1941 Mar 04 17:10	1°♂30'12	
	1940 Apr 17 04:56	0°♀			1941 Mar 07 02:22	30°♁	
	1940 May 06 21:14	0°♁		direct	1941 Mar 11 15:52	28°♁52'22	
morning set	1940 May 14 13:50	15°♁00'36			1941 Mar 16 12:26	0°♂	
asc. node	1940 May 19 17:51	25°♁59'13		desc. node	1941 Mar 17 23:39	0°♂44'08	
max. Earth dist.	1940 May 20 19:35	28°♁19'21	1.32258 AU	morning max el	1941 Mar 25 15:01	6°♂48'01	27°48'10
	1940 May 21 13:59	0°♂			1941 Apr 12 07:19	0°♀	
superior conj	1940 May 21 20:41	0°♂36'46	0°22'14	morning set	1941 Apr 28 14:36	29°♀16'45	
minimum elong	1940 May 21 19:41	0°♂31'19	0°22'01		1941 Apr 28 23:09	0°♁	
evening rise	1940 May 28 18:25	15°♂37'31		max. Earth dist.	1941 May 04 02:56	10°♁45'22	1.32716 AU
	1940 Jun 04 22:29	0°♁		superior conj	1941 May 06 05:36	15°♁17'59	0°-4'-5
evening max el	1940 Jun 24 13:59	28°♁10'47	25°18'30	minimum elong	1941 May 06 05:48	15°♁19'04	0°04'04
	1940 Jun 26 14:32	0°♂		behind sun begin	1941 May 06 00:44	14°♁51'41	
desc. node	1940 Jun 27 01:51	0°♂23'25		behind sun end	1941 May 06 10:52	15°♁46'27	
retrograde	1940 Jul 08 14:17	5°♂18'28		asc. node	1941 May 06 14:54	16°♁08'21	
evening set	1940 Jul 14 06:09	4°♂04'05			1941 May 13 00:50	0°♂	
min. Earth dist.	1940 Jul 19 01:53	1°♂21'42	0.57839 AU	evening rise	1941 May 13 06:13	0°♂28'33	
	1940 Jul 21 01:39	30°♁			1941 May 29 17:32	0°♁	
inferior conj	1940 Jul 22 04:47	29°♁12'46	-4°-57'-39	evening max el	1941 Jun 06 04:03	8°♁47'20	23°46'37
minimum elong	1940 Jul 22 04:15	29°♁13'42	4°57'40	desc. node	1941 Jun 13 22:52	14°♁20'16	
morning rise	1940 Jul 30 06:04	24°♁57'44		retrograde	1941 Jun 19 21:17	15°♁40'08	
direct	1940 Aug 01 18:42	24°♁38'27		evening set	1941 Jun 24 02:30	15°♁01'01	
morning max el	1940 Aug 10 10:31	28°♁43'00	18°57'06	min. Earth dist.	1941 Jun 30 14:36	11°♁56'05	0.56137 AU
	1940 Aug 11 17:06	0°♂		inferior conj	1941 Jul 02 21:11	10°♁33'26	-4°-31'-24
asc. node	1940 Aug 15 17:04	5°♂03'25		minimum elong	1941 Jul 02 15:21	10°♁42'20	4°30'30
morning set	1940 Aug 27 00:56	25°♂12'38		morning rise	1941 Jul 11 07:35	6°♁36'08	
	1940 Aug 29 11:11	0°♁		direct	1941 Jul 14 01:15	6°♁17'07	
superior conj	1940 Sep 04 12:13	11°♁47'38	1°41'47	morning max el	1941 Jul 24 03:47	10°♁58'12	20°00'02
minimum elong	1940 Sep 04 14:03	11°♁56'27	1°41'41	asc. node	1941 Aug 02 14:07	23°♁27'33	
max. Earth dist.	1940 Sep 11 08:13	24°♁28'00	1.38897 AU		1941 Aug 06 05:57	0°♂	
	1940 Sep 14 11:34	0°♁		morning set	1941 Aug 11 04:45	9°♂43'55	
evening rise	1940 Sep 15 06:30	1°♁21'44		superior conj	1941 Aug 19 00:23	25°♂37'41	1°45'47
desc. node	1940 Sep 23 01:10	14°♁13'07		minimum elong	1941 Aug 19 00:25	25°♂37'50	1°45'48
	1940 Oct 03 12:14	0°♍			1941 Aug 21 05:18	0°♁	
evening max el	1940 Oct 20 16:37	21°♍28'19	24°29'49	max. Earth dist.	1941 Aug 24 13:11	6°♁25'32	1.36916 AU
retrograde	1940 Nov 01 01:39	28°♍07'12		evening rise	1941 Aug 28 10:36	13°♁38'33	
evening set	1940 Nov 06 11:44	25°♍51'58			1941 Sep 06 23:58	0°♁	
min. Earth dist.	1940 Nov 11 04:31	20°♍29'58	0.67528 AU	desc. node	1941 Sep 09 22:10	4°♁38'29	
inferior conj	1940 Nov 11 23:30	19°♍26'29	0°06'12		1941 Sep 28 09:21	0°♍	
minimum elong	1940 Nov 11 23:21	19°♍26'59	0°06'08	evening max el	1941 Oct 03 04:39	5°♍08'15	25°42'26
transit begin	1940 Nov 11 20:49	19°♍35'29		retrograde	1941 Oct 15 11:30	12°♍09'46	
transit end	1940 Nov 12 01:53	19°♍18'30		evening set	1941 Oct 21 12:05	9°♍39'40	
asc. node	1940 Nov 11 16:18	19°♍50'38		min. Earth dist.	1941 Oct 25 21:02	4°♍53'19	0.66919 AU
morning rise	1940 Nov 17 11:20	13°♍21'15		inferior conj	1941 Oct 27 02:56	3°♍18'10	0°-50'-10

minimum elong	1941 Oct 27 04:14	3°♍14'01	0°49'38	asc. node	1942 Oct 16 10:22	11°♌47'13	
asc. node	1941 Oct 29 13:20	0°♍20'05		morning rise	1942 Oct 17 03:52	11°♌21'22	
	1941 Oct 29 20:34	30°♌		direct	1942 Oct 20 00:22	10°♌35'52	
morning rise	1941 Nov 01 21:10	27°♌21'28		morning max el	1942 Oct 26 15:15	14°♌13'11	18°27'42
direct	1941 Nov 05 02:41	26°♌21'20			1942 Nov 07 01:44	0°♍	
	1941 Nov 11 20:11	0°♍		morning set	1942 Nov 15 10:15	13°♍22'32	
morning max el	1941 Nov 12 03:17	0°♍17'38	19°11'26	desc. node	1942 Nov 23 18:29	26°♍42'17	
	1941 Dec 03 00:11	0°♌			1942 Nov 25 20:26	0°♌	
morning set	1941 Dec 05 05:48	3°♌28'34		superior conj	1942 Dec 01 01:57	8°♌14'29	0°-47'-36
desc. node	1941 Dec 06 21:27	6°♌02'59		minimum elong	1942 Nov 30 19:52	7°♌50'34	0°46'50
max. Earth dist.	1941 Dec 19 08:09	25°♌32'07	1.44805 AU	max. Earth dist.	1942 Dec 02 03:00	9°♌52'50	1.45152 AU
					1942 Dec 14 22:21	0°♌	
superior conj	1941 Dec 22 00:35	29°♌46'53	-1°-30'-30	evening rise	1942 Dec 17 05:44	3°♌38'24	
minimum elong	1941 Dec 21 15:47	29°♌12'02	1°29'40	greatest brilliancy	1942 Dec 29 10:03	22°♌44'26	-0.7m
	1941 Dec 22 03:54	0°♌			1943 Jan 03 08:27	0°♌	
evening rise	1942 Jan 05 18:16	23°♌35'58		evening max el	1943 Jan 08 21:34	6°♌52'06	19°08'19
	1942 Jan 09 15:24	0°♌		asc. node	1943 Jan 12 09:42	9°♌46'02	
evening max el	1942 Jan 25 12:02	23°♌24'42	18°30'38	retrograde	1943 Jan 15 20:46	10°♌50'28	
asc. node	1942 Jan 25 12:39	23°♌26'18		evening set	1943 Jan 19 03:48	9°♌47'21	
retrograde	1942 Feb 01 01:16	27°♌00'53		inferior conj	1943 Jan 24 19:15	3°♌56'16	3°20'20
evening set	1942 Feb 04 01:54	26°♌09'52		minimum elong	1943 Jan 24 17:00	4°♌03'26	3°19'55
inferior conj	1942 Feb 09 23:20	20°♌35'32	3°39'00	min. Earth dist.	1943 Jan 26 06:13	2°♌05'07	0.65952 AU
minimum elong	1942 Feb 09 22:04	20°♌39'16	3°38'53		1943 Jan 27 23:42	30°♌	
min. Earth dist.	1942 Feb 12 01:33	18°♌07'59	0.64548 AU	morning rise	1943 Jan 30 05:19	27°♌43'03	
morning rise	1942 Feb 15 16:53	14°♌26'40		direct	1943 Feb 05 14:50	24°♌55'12	
direct	1942 Feb 22 12:08	11°♌36'55			1943 Feb 15 19:00	0°♌	
desc. node	1942 Mar 04 20:40	16°♌31'58		morning max el	1943 Feb 18 10:01	2°♌28'50	26°24'03
morning max el	1942 Mar 08 00:09	19°♌27'02	27°20'47	desc. node	1943 Feb 19 17:42	3°♌50'51	
	1942 Mar 17 00:10	0°♌			1943 Mar 11 04:59	0°♌	
	1942 Apr 05 07:06	0°♌		morning set	1943 Mar 26 11:19	26°♌12'03	
morning set	1942 Apr 12 06:59	13°♌04'16			1943 Mar 28 11:19	0°♌	
max. Earth dist.	1942 Apr 17 02:20	22°♌43'51	1.33603 AU	max. Earth dist.	1943 Mar 30 14:44	4°♌09'45	1.34945 AU
				superior conj	1943 Apr 04 08:34	13°♌42'08	0°-59'-36
superior conj	1942 Apr 20 10:20	29°♌42'08	0°-31'-46	minimum elong	1943 Apr 04 11:34	13°♌57'31	0°59'04
minimum elong	1942 Apr 20 11:55	29°♌50'34	0°31'27	asc. node	1943 Apr 10 09:01	26°♌12'22	
	1942 Apr 20 13:42	0°♌		evening rise	1943 Apr 12 01:56	29°♌44'29	
asc. node	1942 Apr 23 11:58	6°♌14'12			1943 Apr 12 04:56	0°♌	
evening rise	1942 Apr 27 17:23	15°♌13'06			1943 Apr 30 15:56	0°♌	
	1942 May 05 04:37	0°♌		evening max el	1943 Apr 30 21:09	0°♌12'46	20°44'42
evening max el	1942 May 18 20:08	19°♌18'14	22°10'54	retrograde	1943 May 12 05:13	5°♌43'34	
retrograde	1942 May 31 16:03	25°♌38'25		evening set	1943 May 14 08:24	5°♌32'38	
desc. node	1942 May 31 19:54	25°♌38'22		desc. node	1943 May 18 16:56	4°♌10'02	
evening set	1942 Jun 03 12:54	25°♌20'12		inferior conj	1943 May 23 14:34	1°♌34'59	-1°-25'-27
min. Earth dist.	1942 Jun 12 02:05	21°♌40'00	0.55098 AU	minimum elong	1943 May 23 10:32	1°♌40'45	1°24'00
inferior conj	1942 Jun 12 20:49	21°♌13'40	-3°-17'-15	min. Earth dist.	1943 May 24 14:31	1°♌00'44	0.54971 AU
minimum elong	1942 Jun 12 13:00	21°♌24'40	3°15'01		1943 May 26 10:04	30°♌	
morning rise	1942 Jun 21 15:00	17°♌21'43		morning rise	1943 Jun 01 11:39	27°♌28'29	
direct	1942 Jun 24 15:54	17°♌01'03		direct	1943 Jun 05 01:29	27°♌00'57	
morning max el	1942 Jul 06 09:37	22°♌29'50	21°23'09		1943 Jun 14 00:46	0°♌	
	1942 Jul 12 20:24	0°♌		morning max el	1943 Jun 18 05:39	3°♌21'22	23°01'02
asc. node	1942 Jul 20 11:11	12°♌27'35			1943 Jul 06 09:05	0°♌	
morning set	1942 Jul 26 13:11	24°♌29'58		asc. node	1943 Jul 07 08:14	1°♌53'45	
	1942 Jul 29 04:24	0°♌		morning set	1943 Jul 11 00:12	9°♌23'44	
superior conj	1942 Aug 02 22:35	9°♌58'26	1°42'11	superior conj	1943 Jul 18 03:30	24°♌38'57	1°32'27
minimum elong	1942 Aug 02 21:15	9°♌51'30	1°42'08	minimum elong	1943 Jul 18 01:22	24°♌27'30	1°32'14
max. Earth dist.	1942 Aug 07 00:34	18°♌18'33	1.35192 AU		1943 Jul 20 16:08	0°♌	
evening rise	1942 Aug 11 09:04	26°♌48'36		max. Earth dist.	1943 Jul 20 20:50	0°♌24'40	1.33840 AU
	1942 Aug 13 01:48	0°♌		evening rise	1943 Jul 25 21:14	10°♌38'28	
desc. node	1942 Aug 27 19:12	24°♌46'27			1943 Aug 05 10:33	0°♌	
	1942 Aug 31 08:27	0°♌		desc. node	1943 Aug 14 16:15	14°♌28'15	
evening max el	1942 Sep 15 16:55	18°♌45'55	26°40'33		1943 Aug 27 00:36	0°♌	
retrograde	1942 Sep 28 16:12	26°♌00'03		evening max el	1943 Aug 29 04:47	2°♌10'40	27°16'56
evening set	1942 Oct 05 06:17	23°♌19'37		retrograde	1943 Sep 11 15:23	9°♌29'23	
min. Earth dist.	1942 Oct 09 07:49	19°♌10'18	0.65967 AU	evening set	1943 Sep 18 15:46	6°♌46'34	
inferior conj	1942 Oct 11 01:31	17°♌06'26	-1°-48'-24				
minimum elong	1942 Oct 11 04:25	16°♌57'50	1°47'16				

min. Earth dist.	1943 Sep 22 10:39	3°♁13'34	0.64648 AU	retrograde	1944 Aug 24 08:25	22°♎28'21	
inferior conj	1943 Sep 24 16:57	0°♁45'56	-2°-46'-24	evening set	1944 Aug 31 13:15	19°♎54'45	
minimum elong	1943 Sep 24 21:20	0°♁34'01	2°44'52	min. Earth dist.	1944 Sep 04 03:48	16°♎53'13	0.62984 AU
	1943 Sep 25 09:56	30°♎		inferior conj	1944 Sep 06 22:30	14°♎10'25	-3°-40'-52
morning rise	1943 Oct 01 04:50	25°♎15'39		minimum elong	1944 Sep 07 03:47	13°♎57'29	3°39'23
asc. node	1943 Oct 03 07:25	24°♎42'13		morning rise	1944 Sep 13 20:52	8°♎58'07	
direct	1943 Oct 03 18:41	24°♎41'03		direct	1944 Sep 16 06:47	8°♎30'57	
morning max el	1943 Oct 10 06:45	28°♎08'40	18°00'50	asc. node	1944 Sep 19 04:29	9°♎11'12	
	1943 Oct 11 23:27	0°♁		morning max el	1944 Sep 22 22:51	11°♎57'03	17°51'37
morning set	1943 Oct 27 19:35	24°♁41'21			1944 Oct 05 03:17	0°♁	
	1943 Oct 30 23:37	0°♎		morning set	1944 Oct 09 04:47	7°♁08'42	
superior conj	1943 Nov 10 11:56	17°♎12'57	0°01'01	superior conj	1944 Oct 20 21:53	27°♁23'02	0°44'00
minimum elong	1943 Nov 10 12:03	17°♎13'27	0°01'01	minimum elong	1944 Oct 21 01:54	27°♁39'49	0°43'27
behind sun begin	1943 Nov 10 01:36	16°♎31'25			1944 Oct 22 11:33	0°♎	
behind sun end	1943 Nov 10 22:31	17°♎55'24		max. Earth dist.	1944 Oct 27 13:38	8°♎19'00	1.43671 AU
desc. node	1943 Nov 10 15:33	17°♎27'27		desc. node	1944 Oct 27 12:34	8°♎14'43	
max. Earth dist.	1943 Nov 14 21:47	24°♎14'23	1.44752 AU	evening rise	1944 Nov 05 05:38	21°♎59'29	
	1943 Nov 18 13:39	0°♁			1944 Nov 10 11:09	0°♁	
evening rise	1943 Nov 26 21:25	12°♁55'42		greatest brilliancy	1944 Nov 29 20:13	27°♁45'30	-0.4m
	1943 Dec 08 01:47	0°♁			1944 Dec 01 15:31	0°♁	
greatest brilliancy	1943 Dec 16 04:53	11°♁49'44	-0.6m	evening max el	1944 Dec 05 02:10	3°♁52'02	21°08'35
evening max el	1943 Dec 23 02:36	20°♁21'37	20°01'51	retrograde	1944 Dec 13 16:11	8°♁57'36	
asc. node	1943 Dec 30 06:43	24°♁49'25		asc. node	1944 Dec 16 03:45	8°♁23'20	
retrograde	1943 Dec 30 18:32	24°♁50'46		evening set	1944 Dec 17 17:00	7°♁25'47	
evening set	1944 Jan 03 09:30	23°♁34'07		inferior conj	1944 Dec 23 02:53	1°♁10'22	2°12'34
inferior conj	1944 Jan 08 21:14	17°♁29'14	2°50'43	minimum elong	1944 Dec 23 00:25	1°♁18'53	2°11'45
minimum elong	1944 Jan 08 18:37	17°♁38'02	2°50'02	min. Earth dist.	1944 Dec 23 11:44	0°♁39'53	0.67569 AU
min. Earth dist.	1944 Jan 09 18:23	16°♁18'22	0.66952 AU		1944 Dec 23 23:21	30°♁	
morning rise	1944 Jan 14 03:07	11°♁14'00		morning rise	1944 Dec 28 07:26	24°♁55'12	
direct	1944 Jan 19 23:21	8°♁38'44		direct	1945 Jan 02 12:45	22°♁39'30	
morning max el	1944 Jan 31 18:55	15°♁41'44	25°06'58	morning max el	1945 Jan 13 03:25	28°♁58'53	23°39'42
desc. node	1944 Feb 06 14:45	22°♁14'35			1945 Jan 14 03:04	0°♁	
	1944 Feb 12 14:17	0°♁		desc. node	1945 Jan 23 11:47	11°♁23'54	
	1944 Mar 03 02:45	0°♁			1945 Feb 05 09:20	0°♁	
morning set	1944 Mar 07 22:42	8°♁26'10		morning set	1945 Feb 17 10:52	19°♁28'44	
max. Earth dist.	1944 Mar 11 15:46	15°♁12'37	1.36718 AU	max. Earth dist.	1945 Feb 21 10:35	26°♁22'52	1.38802 AU
					1945 Feb 23 11:25	0°♁	
superior conj	1944 Mar 17 21:25	27°♁10'03	-1°-25'-47	superior conj	1945 Feb 28 21:01	9°♁55'20	-1°-47'-48
minimum elong	1944 Mar 18 01:28	27°♁30'04	1°25'13	minimum elong	1945 Mar 01 01:11	10°♁14'51	1°47'26
	1944 Mar 19 07:43	0°♁		evening rise	1945 Mar 10 01:48	27°♁39'30	
evening rise	1944 Mar 26 05:39	13°♁55'59			1945 Mar 11 06:45	0°♁	
asc. node	1944 Mar 27 06:05	15°♁58'25		asc. node	1945 Mar 14 03:06	5°♁26'27	
	1944 Apr 03 17:29	0°♁		evening max el	1945 Mar 26 09:27	23°♁58'33	18°46'12
evening max el	1944 Apr 12 10:02	11°♁46'39	19°35'35	retrograde	1945 Apr 03 12:12	27°♁55'36	
retrograde	1944 Apr 22 00:34	16°♁24'55		evening set	1945 Apr 05 17:52	27°♁38'45	
evening set	1944 Apr 24 01:26	16°♁13'19		inferior conj	1945 Apr 13 14:30	23°♁17'34	2°06'29
inferior conj	1944 May 02 17:10	12°♁09'18	0°32'12	minimum elong	1945 Apr 13 18:26	23°♁10'18	2°05'21
minimum elong	1944 May 02 18:32	12°♁07'07	0°31'42	min. Earth dist.	1945 Apr 16 21:47	20°♁52'31	0.57407 AU
desc. node	1944 May 04 13:57	10°♁58'07		morning rise	1945 Apr 21 14:39	18°♁06'31	
min. Earth dist.	1944 May 05 04:55	10°♁34'46	0.55802 AU	desc. node	1945 Apr 21 10:59	18°♁10'37	
morning rise	1944 May 11 07:59	7°♁31'50		direct	1945 Apr 27 03:46	16°♁51'13	
direct	1944 May 15 19:39	6°♁46'37		morning max el	1945 May 11 11:58	24°♁22'22	26°13'21
morning max el	1944 May 29 20:29	13°♁50'14	24°42'42		1945 May 16 15:21	0°♁	
	1944 Jun 11 11:46	0°♁			1945 Jun 04 10:30	0°♁	
asc. node	1944 Jun 23 05:19	21°♁39'05		morning set	1945 Jun 08 23:12	9°♁13'22	
morning set	1944 Jun 24 12:04	24°♁20'01		asc. node	1945 Jun 10 02:23	11°♁37'25	
	1944 Jun 27 03:40	0°♁					
superior conj	1944 Jul 01 12:38	9°♁31'17	1°17'40	superior conj	1945 Jun 15 23:57	24°♁28'33	0°58'44
minimum elong	1944 Jul 01 10:13	9°♁18'09	1°17'19	minimum elong	1945 Jun 15 21:45	24°♁16'30	0°58'20
max. Earth dist.	1944 Jul 03 01:26	12°♁50'53	1.32897 AU	max. Earth dist.	1945 Jun 16 11:45	25°♁33'26	1.32350 AU
evening rise	1944 Jul 08 19:17	24°♁57'15			1945 Jun 18 12:27	0°♁	
	1944 Jul 11 07:41	0°♁		evening rise	1945 Jun 23 00:08	9°♁35'24	
	1944 Jul 28 23:44	0°♁			1945 Jul 03 15:39	0°♁	
desc. node	1944 Jul 31 13:17	3°♁32'52		desc. node	1945 Jul 18 10:18	21°♁45'10	
evening max el	1944 Aug 10 14:42	15°♁10'47	27°25'05	evening max el	1945 Jul 23 20:16	27°♁34'19	27°00'42

	1945 Jul 26 14:48	0°♆		1946 Jun 10 02:00	0°♁		
retrograde	1945 Aug 06 18:10	4°♆48'11		1946 Jun 27 19:07	0°♁		
evening set	1945 Aug 13 18:32	2°♆37'09		desc. node	1946 Jul 05 07:19	8°♁42'58	
	1945 Aug 17 08:50	30°♁		evening max el	1946 Jul 05 18:59	9°♁11'08	26°03'39
min. Earth dist.	1945 Aug 17 10:32	29°♁56'29	0.61046 AU	retrograde	1946 Jul 19 18:55	16°♁21'22	
inferior conj	1945 Aug 20 14:57	27°♁12'17	-4°-26'-25	evening set	1946 Jul 26 02:47	14°♁44'28	
minimum elong	1945 Aug 20 19:48	27°♁01'47	4°25'32	min. Earth dist.	1946 Jul 30 07:34	12°♁08'22	0.58986 AU
morning rise	1945 Aug 28 00:06	22°♁21'00		inferior conj	1946 Aug 02 14:37	9°♁40'56	-4°-54'-23
direct	1945 Aug 30 09:02	21°♁58'20		minimum elong	1946 Aug 02 16:47	9°♁36'52	4°54'16
asc. node	1945 Sep 06 01:33	25°♁05'17		morning rise	1946 Aug 10 10:13	5°♁12'55	
morning max el	1945 Sep 06 12:31	25°♁31'12	18°01'08	direct	1946 Aug 12 21:03	4°♁52'42	
	1945 Sep 10 07:21	0°♆		morning max el	1946 Aug 20 20:34	8°♁41'55	18°30'41
morning set	1945 Sep 22 07:40	20°♆27'01		asc. node	1946 Aug 23 22:36	12°♁08'57	
	1945 Sep 27 12:08	0°♁		1946 Sep 03 16:29	0°♆		
				morning set	1946 Sep 05 23:02	4°♆21'12	
superior conj	1945 Oct 02 10:46	8°♁52'26	1°15'39	superior conj	1946 Sep 14 22:19	21°♆28'39	1°35'20
minimum elong	1945 Oct 02 15:11	9°♁11'56	1°15'09	minimum elong	1946 Sep 15 01:16	21°♆42'22	1°35'07
max. Earth dist.	1945 Oct 10 01:03	21°♁53'20	1.42047 AU		1946 Sep 19 14:34	0°♁	
desc. node	1945 Oct 14 09:36	29°♁01'14		max. Earth dist.	1946 Sep 22 07:23	4°♁45'25	1.40081 AU
	1945 Oct 15 00:13	0°♆		evening rise	1946 Sep 26 15:03	12°♁06'57	
evening rise	1945 Oct 15 23:39	1°♆33'42		desc. node	1946 Oct 01 06:37	19°♁42'50	
	1945 Nov 03 23:06	0°♆		1946 Oct 07 21:21	0°♆		
greatest brilliancy	1945 Nov 13 02:28	12°♆04'33	-0.3m	1946 Oct 30 11:23	0°♆		
evening max el	1945 Nov 17 20:25	17°♆24'27	22°24'32	evening max el	1946 Oct 31 10:30	0°♆59'01	23°44'29
retrograde	1945 Nov 27 12:01	23°♆08'34		retrograde	1946 Nov 11 04:43	7°♆19'38	
evening set	1945 Dec 02 00:39	21°♆20'03		evening set	1946 Nov 16 06:47	5°♆13'46	
asc. node	1945 Dec 03 00:46	20°♆25'52		asc. node	1946 Nov 19 21:47	1°♆14'42	
inferior conj	1945 Dec 07 10:12	14°♆57'38	1°27'39		1946 Nov 20 20:16	30°♆	
minimum elong	1945 Dec 07 08:20	15°♆04'06	1°26'55	min. Earth dist.	1946 Nov 21 04:23	29°♆32'27	0.67735 AU
min. Earth dist.	1945 Dec 07 07:51	15°♆05'47	0.67826 AU	inferior conj	1946 Nov 21 17:22	28°♆48'14	0°37'14
morning rise	1945 Dec 12 15:54	8°♆44'41		minimum elong	1946 Nov 21 16:30	28°♆51'12	0°36'52
direct	1945 Dec 17 06:11	6°♆51'40		morning rise	1946 Nov 27 02:24	22°♆39'41	
morning max el	1945 Dec 26 14:49	12°♆22'30	22°12'07	direct	1946 Dec 01 02:32	21°♆09'21	
greatest brilliancy	1945 Dec 31 05:37	17°♆33'06	-0.3m	morning max el	1946 Dec 09 08:35	25°♆55'59	20°51'53
	1946 Jan 09 14:09	0°♁		1946 Dec 13 00:03	0°♆		
desc. node	1946 Jan 10 08:49	1°♁06'14		greatest brilliancy	1946 Dec 15 01:01	2°♆32'51	-0.5m
morning set	1946 Jan 28 18:31	29°♁07'55		desc. node	1946 Dec 28 05:51	21°♆11'58	
	1946 Jan 29 07:22	0°♁		1947 Jan 03 01:46	0°♁		
max. Earth dist.	1946 Feb 03 07:49	8°♁17'32	1.40951 AU	morning set	1947 Jan 07 23:46	7°♁35'24	
				max. Earth dist.	1947 Jan 16 12:19	21°♁08'58	1.42854 AU
superior conj	1946 Feb 11 02:43	21°♁46'47	-2°-2'-1	1947 Jan 21 21:06	0°♁		
minimum elong	1946 Feb 11 05:06	21°♁57'22	2°01'57				
	1946 Feb 15 15:43	0°♆		superior conj	1947 Jan 23 09:13	2°♁31'54	-2°-3'-46
evening rise	1946 Feb 21 11:11	10°♆47'48		minimum elong	1947 Jan 23 07:17	2°♁23'41	2°03'44
asc. node	1946 Mar 01 00:06	24°♆30'33		evening rise	1947 Feb 04 05:54	23°♁12'32	
	1946 Mar 04 09:26	0°♆		1947 Feb 08 01:31	0°♆		
evening max el	1946 Mar 09 16:24	6°♆40'54	18°16'51	asc. node	1947 Feb 15 21:07	13°♆03'11	
retrograde	1946 Mar 16 18:55	10°♆13'28		evening max el	1947 Feb 21 03:38	19°♆45'00	18°07'15
evening set	1946 Mar 19 06:13	9°♆48'41		retrograde	1947 Feb 27 17:35	23°♆08'55	
inferior conj	1946 Mar 26 09:06	5°♆06'12	3°07'02	evening set	1947 Mar 02 09:54	22°♆34'51	
minimum elong	1946 Mar 26 12:29	4°♆58'52	3°06'23	inferior conj	1947 Mar 08 22:34	17°♆31'05	3°37'02
min. Earth dist.	1946 Mar 29 19:05	2°♆10'51	0.59453 AU	minimum elong	1947 Mar 09 00:03	17°♆27'22	3°36'53
	1946 Apr 01 18:16	30°♆		min. Earth dist.	1947 Mar 11 23:55	14°♆30'08	0.61589 AU
morning rise	1946 Apr 02 15:03	29°♆28'30		morning rise	1947 Mar 15 11:32	11°♆35'54	
desc. node	1946 Apr 08 08:01	27°♆38'19		direct	1947 Mar 22 08:06	9°♆11'58	
direct	1946 Apr 09 00:38	27°♆37'02		desc. node	1947 Mar 26 05:02	9°♆53'48	
	1946 Apr 16 14:54	0°♆		morning max el	1947 Apr 05 11:52	17°♆06'31	27°48'09
morning max el	1946 Apr 23 08:40	5°♆23'26	27°18'19	1947 Apr 16 04:31	0°♆		
	1946 May 11 14:29	0°♆		1947 May 04 06:03	0°♆		
morning set	1946 May 24 07:53	23°♆57'58		morning set	1947 May 08 12:15	8°♆27'35	
	1946 May 27 04:13	0°♆		max. Earth dist.	1947 May 14 10:40	21°♆00'14	1.32406 AU
asc. node	1946 May 27 23:24	1°♆43'33		asc. node	1947 May 14 20:26	21°♆53'15	
max. Earth dist.	1946 May 31 00:08	8°♆20'58	1.32186 AU				
				superior conj	1947 May 15 22:08	24°♆13'12	0°11'18
superior conj	1946 May 31 11:39	9°♆24'21	0°36'23	minimum elong	1947 May 15 21:36	24°♆10'21	0°11'12
minimum elong	1946 May 31 10:07	9°♆15'53	0°36'04	behind sun begin	1947 May 15 17:58	23°♆50'27	
evening rise	1946 Jun 07 09:17	24°♆24'22					

behind sun end	1947 May 16 01:15	24°♄30'15		minimum elong	1948 Apr 29 06:18	8°♄52'23	0°15'34
	1947 May 18 13:33	0°♄		behind sun begin	1948 Apr 29 05:10	8°♄46'18	
evening rise	1947 May 22 20:42	9°♄17'12		behind sun end	1948 Apr 29 07:26	8°♄58'27	
	1947 Jun 02 13:40	0°♄		asc. node	1948 Apr 30 17:28	12°♄01'39	
evening max el	1947 Jun 17 10:52	20°♄04'14	24°40'46	evening rise	1948 May 06 08:28	24°♄06'22	
desc. node	1947 Jun 22 04:18	23°♄56'41			1948 May 09 04:38	0°♄	
retrograde	1947 Jul 01 09:13	27°♄07'36			1948 May 28 10:50	0°♄	
evening set	1947 Jul 06 11:19	26°♄09'07		evening max el	1948 May 29 00:40	0°♄34'05	23°05'24
min. Earth dist.	1947 Jul 11 22:01	23°♄19'00	0.57056 AU	desc. node	1948 Jun 08 01:20	6°♄49'40	
inferior conj	1947 Jul 14 18:36	21°♄27'46	-4°-52'-4	retrograde	1948 Jun 11 11:15	7°♄16'14	
minimum elong	1947 Jul 14 15:45	21°♄32'26	4°51'52	evening set	1948 Jun 15 01:17	6°♄48'03	
morning rise	1947 Jul 22 23:55	17°♄21'42		min. Earth dist.	1948 Jun 22 10:01	3°♄29'27	0.55595 AU
direct	1947 Jul 25 14:37	17°♄02'39		inferior conj	1948 Jun 24 03:00	2°♄29'46	-4°-5'-49
morning max el	1947 Aug 03 20:03	21°♄20'37	19°21'20	minimum elong	1948 Jun 23 19:38	2°♄40'33	4°04'13
	1947 Aug 10 17:40	0°♄			1948 Jun 28 17:57	30°♄	
asc. node	1947 Aug 10 19:40	0°♄07'44		morning rise	1948 Jul 02 17:02	28°♄36'50	
morning set	1947 Aug 20 23:09	18°♄41'20		direct	1948 Jul 05 13:04	28°♄17'40	
	1947 Aug 26 14:50	0°♄			1948 Jul 11 20:56	0°♄	
				morning max el	1948 Jul 16 08:36	3°♄18'09	20°33'10
superior conj	1947 Aug 29 03:00	4°♄56'21	1°44'30	asc. node	1948 Jul 27 16:43	18°♄48'19	
minimum elong	1947 Aug 29 04:02	5°♄01'24	1°44'30		1948 Aug 02 13:54	0°♄	
max. Earth dist.	1947 Sep 04 11:01	16°♄56'38	1.38031 AU	morning set	1948 Aug 04 05:10	3°♄19'25	
evening rise	1947 Sep 08 06:32	23°♄47'37					
	1947 Sep 11 20:54	0°♄		superior conj	1948 Aug 11 19:55	19°♄00'58	1°45'06
desc. node	1947 Sep 18 03:38	10°♄15'31		minimum elong	1948 Aug 11 19:18	18°♄57'51	1°45'05
	1947 Oct 01 15:26	0°♄		max. Earth dist.	1948 Aug 16 17:41	28°♄47'15	1.36138 AU
evening max el	1947 Oct 13 22:33	14°♄36'43	25°01'55		1948 Aug 17 08:44	0°♄	
retrograde	1947 Oct 25 17:25	21°♄26'52		evening rise	1948 Aug 20 19:01	6°♄28'41	
evening set	1947 Oct 31 09:46	19°♄04'37			1948 Sep 03 15:47	0°♄	
min. Earth dist.	1947 Nov 04 23:02	13°♄57'47	0.67310 AU	desc. node	1948 Sep 04 00:40	0°♄34'18	
inferior conj	1947 Nov 05 22:41	12°♄40'10	0°-17'-22	evening max el	1948 Sep 25 10:30	28°♄16'11	26°09'25
minimum elong	1947 Nov 05 23:07	12°♄38'44	0°17'12		1948 Sep 27 07:19	0°♄	
asc. node	1947 Nov 06 18:51	11°♄34'25		retrograde	1948 Oct 08 01:22	5°♄25'10	
morning rise	1947 Nov 11 13:02	6°♄38'27		evening set	1948 Oct 14 07:48	2°♄49'52	
direct	1947 Nov 15 00:40	5°♄28'25			1948 Oct 17 03:33	30°♄	
morning max el	1947 Nov 22 10:11	9°♄40'21	19°43'51	min. Earth dist.	1948 Oct 18 13:29	28°♄19'04	0.66548 AU
greatest brilliancy	1947 Nov 30 07:44	19°♄28'42	-0.6m	inferior conj	1948 Oct 20 00:19	26°♄31'05	-1°-14'-48
	1947 Dec 07 12:32	0°♄		minimum elong	1948 Oct 20 02:17	26°♄24'57	1°13'59
desc. node	1947 Dec 15 02:53	11°♄34'23		asc. node	1948 Oct 23 15:55	22°♄22'53	
morning set	1947 Dec 17 20:05	15°♄45'39		morning rise	1948 Oct 25 21:49	20°♄38'54	
	1947 Dec 26 23:17	0°♄		direct	1948 Oct 28 23:06	19°♄45'37	
max. Earth dist.	1947 Dec 29 23:54	4°♄47'10	1.44269 AU	morning max el	1948 Nov 04 18:54	23°♄33'06	18°50'48
					1948 Nov 10 02:19	0°♄	
superior conj	1948 Jan 03 13:15	12°♄04'45	-1°-48'-12	morning set	1948 Nov 26 08:28	24°♄50'21	
minimum elong	1948 Jan 03 05:59	11°♄35'27	1°47'42		1948 Nov 29 15:09	0°♄	
	1948 Jan 14 10:06	0°♄		desc. node	1948 Nov 30 23:55	2°♄08'49	
evening rise	1948 Jan 17 05:31	4°♄44'42		max. Earth dist.	1948 Dec 11 16:31	18°♄56'09	1.45034 AU
	1948 Feb 02 00:46	0°♄					
asc. node	1948 Feb 02 18:09	0°♄54'11		superior conj	1948 Dec 12 19:50	20°♄43'31	-1°-13'-50
evening max el	1948 Feb 04 16:13	3°♄02'36	18°16'50	minimum elong	1948 Dec 12 11:22	20°♄10'14	1°12'53
retrograde	1948 Feb 11 03:24	6°♄31'10			1948 Dec 18 16:46	0°♄	
evening set	1948 Feb 14 00:44	5°♄46'47		evening rise	1948 Dec 28 06:26	15°♄19'19	
inferior conj	1948 Feb 20 02:50	0°♄23'13	3°43'28		1949 Jan 06 08:53	0°♄	
minimum elong	1948 Feb 20 02:25	0°♄24'21	3°43'27	evening max el	1949 Jan 18 03:35	16°♄28'11	18°44'40
	1948 Feb 20 11:08	30°♄		asc. node	1949 Jan 19 15:12	17°♄51'40	
min. Earth dist.	1948 Feb 22 14:05	27°♄38'36	0.63554 AU	retrograde	1949 Jan 24 20:17	20°♄12'42	
morning rise	1948 Feb 26 02:18	24°♄17'48		evening set	1949 Jan 27 23:24	19°♄16'51	
direct	1948 Mar 04 00:19	21°♄33'03		inferior conj	1949 Feb 02 18:01	13°♄35'23	3°32'36
desc. node	1948 Mar 12 02:04	24°♄34'23		minimum elong	1949 Feb 02 16:15	13°♄40'45	3°32'23
morning max el	1948 Mar 17 19:44	29°♄28'26	27°40'38	min. Earth dist.	1949 Feb 04 13:44	11°♄22'09	0.65192 AU
	1948 Mar 18 08:14	0°♄		morning rise	1949 Feb 08 07:56	7°♄24'17	
	1948 Apr 09 02:26	0°♄		direct	1949 Feb 14 23:45	4°♄33'25	
morning set	1948 Apr 21 09:52	22°♄33'22		desc. node	1949 Feb 26 23:07	11°♄04'48	
	1948 Apr 25 01:38	0°♄		morning max el	1949 Feb 28 05:24	12°♄18'45	26°59'42
max. Earth dist.	1948 Apr 26 15:09	3°♄16'15	1.33038 AU		1949 Mar 14 09:52	0°♄	
					1949 Apr 01 16:02	0°♄	
superior conj	1948 Apr 29 05:32	8°♄48'14	0°-15'-43	morning set	1949 Apr 04 21:40	6°♄05'54	

max. Earth dist.	1949 Apr 09 09:50	14°♃59'39	1.34118 AU	max. Earth dist.	1950 Mar 22 16:57	26°♃12'22	1.35652 AU
					1950 Mar 24 15:52	0°♃	
superior conj	1949 Apr 13 07:50	23°♃03'25	0°-43'-38	superior conj	1950 Mar 28 02:28	6°♃51'03	-1°-11'-1
minimum elong	1949 Apr 13 10:02	23°♃14'57	0°43'13	minimum elong	1950 Mar 28 05:59	7°♃08'50	1°10'27
	1949 Apr 16 14:55	0°♃					
asc. node	1949 Apr 17 14:31	2°♃04'55		asc. node	1950 Apr 04 11:35	21°♃58'41	
evening rise	1949 Apr 20 18:45	8°♃46'10		evening rise	1950 Apr 05 01:31	23°♃09'57	
	1949 May 02 02:19	0°♃			1950 Apr 08 11:13	0°♃	
evening max el	1949 May 10 20:03	11°♃12'51	21°32'29	evening max el	1950 Apr 23 02:09	22°♃24'00	20°12'59
retrograde	1949 May 23 02:16	17°♃12'58		retrograde	1950 May 03 16:06	27°♃31'19	
evening set	1949 May 25 13:15	16°♃59'17		evening set	1950 May 05 17:09	27°♃20'41	
desc. node	1949 May 25 22:22	16°♃54'49		desc. node	1950 May 12 19:22	24°♃30'25	
inferior conj	1949 Jun 03 22:28	12°♃58'49	-2°-32'-50	inferior conj	1950 May 14 18:17	23°♃22'13	0°-34'-12
minimum elong	1949 Jun 03 15:40	13°♃08'20	2°30'38	minimum elong	1950 May 14 16:42	23°♃24'34	0°33'37
min. Earth dist.	1949 Jun 03 22:06	12°♃59'20	0.54930 AU	min. Earth dist.	1950 May 16 11:06	22°♃21'55	0.55219 AU
morning rise	1949 Jun 12 18:41	9°♃02'42		morning rise	1950 May 23 13:58	19°♃04'12	
direct	1949 Jun 16 00:08	8°♃39'57		direct	1950 May 27 12:28	18°♃30'33	
morning max el	1949 Jun 28 09:50	14°♃31'33	22°03'24	morning max el	1950 Jun 10 02:46	25°♃10'27	23°44'34
	1949 Jul 10 03:19	0°♃			1950 Jun 14 14:33	0°♃	
asc. node	1949 Jul 14 13:46	8°♃00'27		asc. node	1950 Jul 01 10:50	27°♃36'08	
morning set	1949 Jul 19 14:54	18°♃09'11		morning set	1950 Jul 02 14:57	0°♃	
	1949 Jul 25 05:20	0°♃			1950 Jul 04 02:31	3°♃05'26	
superior conj	1949 Jul 26 21:17	3°♃31'03	1°38'44	superior conj	1950 Jul 11 04:17	18°♃18'00	1°26'45
minimum elong	1949 Jul 26 19:32	3°♃21'52	1°38'36	minimum elong	1950 Jul 11 01:57	18°♃05'30	1°26'27
max. Earth dist.	1949 Jul 30 08:36	10°♃43'33	1.34571 AU	max. Earth dist.	1950 Jul 13 09:00	23°♃00'24	1.33396 AU
evening rise	1949 Aug 03 23:51	19°♃57'24		evening rise	1950 Jul 16 17:08	0°♃	
	1949 Aug 09 09:04	0°♃			1950 Jul 18 16:42	4°♃01'43	
desc. node	1949 Aug 21 21:42	20°♃32'13		desc. node	1950 Aug 02 02:44	0°♃	
	1949 Aug 28 15:48	0°♃			1950 Aug 08 18:44	10°♃00'17	
evening max el	1949 Sep 07 22:53	11°♃50'18	26°59'15	evening max el	1950 Aug 21 10:27	25°♃07'33	27°24'12
retrograde	1949 Sep 21 03:49	19°♃07'13		retrograde	1950 Aug 27 14:17	0°♃	
evening set	1949 Sep 27 22:37	16°♃24'57			1950 Sep 04 00:14	2°♃25'16	
min. Earth dist.	1949 Oct 01 21:17	12°♃31'03	0.65442 AU		1950 Sep 10 19:16	30°♃	
inferior conj	1949 Oct 03 20:11	10°♃16'30	-2°-13'-15	evening set	1950 Sep 11 03:26	29°♃45'06	
minimum elong	1949 Oct 03 23:44	10°♃06'17	2°11'53	min. Earth dist.	1950 Sep 14 20:11	26°♃26'16	0.63985 AU
morning rise	1949 Oct 10 02:24	4°♃37'01		inferior conj	1950 Sep 17 07:47	23°♃51'13	-3°-10'-11
asc. node	1949 Oct 10 12:59	4°♃25'04		minimum elong	1950 Sep 17 12:40	23°♃38'31	3°08'37
direct	1949 Oct 12 19:44	3°♃56'35		morning rise	1950 Sep 24 00:01	18°♃27'59	
morning max el	1949 Oct 19 08:38	7°♃28'57	18°14'07	direct	1950 Sep 26 11:59	17°♃56'47	
	1949 Nov 03 18:58	0°♃		asc. node	1950 Sep 27 10:01	18°♃01'03	
morning set	1949 Nov 07 01:31	5°♃21'38		morning max el	1950 Oct 03 00:43	21°♃22'31	17°54'41
desc. node	1949 Nov 17 20:57	22°♃50'54			1950 Oct 09 14:40	0°♃	
				morning set	1950 Oct 19 21:50	17°♃12'41	
superior conj	1949 Nov 21 22:10	29°♃16'46	0°-26'-55		1950 Oct 27 10:36	0°♃	
minimum elong	1949 Nov 21 18:41	29°♃03'03	0°26'27	superior conj	1950 Nov 01 17:12	8°♃42'42	0°20'27
	1949 Nov 22 09:06	0°♃		minimum elong	1950 Nov 01 19:26	8°♃51'49	0°20'08
max. Earth dist.	1949 Nov 24 11:36	3°♃18'57	1.45070 AU	desc. node	1950 Nov 04 18:02	13°♃37'36	
evening rise	1949 Dec 08 08:27	24°♃59'30		max. Earth dist.	1950 Nov 07 06:03	17°♃37'46	1.44377 AU
	1949 Dec 11 13:37	0°♃			1950 Nov 15 03:10	0°♃	
greatest brilliancy	1949 Dec 24 01:05	19°♃03'56	-0.7m	evening rise	1950 Nov 17 19:03	4°♃06'39	
evening max el	1950 Jan 01 11:27	29°♃56'55	19°29'22		1950 Dec 05 01:57	0°♃	
	1950 Jan 01 12:39	0°♃		greatest brilliancy	1950 Dec 09 12:34	6°♃09'07	-0.5m
asc. node	1950 Jan 06 12:16	3°♃40'44		evening max el	1950 Dec 15 14:16	13°♃26'53	20°28'49
retrograde	1950 Jan 08 16:54	4°♃07'05		retrograde	1950 Dec 23 14:48	18°♃10'35	
evening set	1950 Jan 12 03:09	2°♃58'21		asc. node	1950 Dec 24 09:17	18°♃07'16	
	1950 Jan 15 07:35	30°♃		evening set	1950 Dec 27 09:50	16°♃47'28	
inferior conj	1950 Jan 17 16:48	27°♃01'16	3°08'54	inferior conj	1951 Jan 01 20:34	10°♃37'36	2°35'26
minimum elong	1950 Jan 17 14:19	27°♃09'22	3°08'22	minimum elong	1951 Jan 01 17:57	10°♃46'30	2°34'40
min. Earth dist.	1950 Jan 18 21:43	25°♃27'02	0.66431 AU	min. Earth dist.	1951 Jan 02 12:13	9°♃44'21	0.67266 AU
morning rise	1950 Jan 23 00:44	20°♃47'11		morning rise	1951 Jan 07 01:35	4°♃22'24	
direct	1950 Jan 29 05:03	18°♃03'26		direct	1951 Jan 12 15:34	1°♃55'04	
morning max el	1950 Feb 10 14:39	25°♃25'12	25°53'07	morning max el	1951 Jan 23 23:08	8°♃40'00	24°30'30
desc. node	1950 Feb 13 20:08	28°♃53'31		desc. node	1951 Jan 31 17:11	17°♃38'15	
	1950 Feb 14 19:12	0°♃			1951 Feb 09 17:50	0°♃	
	1950 Mar 07 22:04	0°♃			1951 Feb 28 13:04	0°♃	
morning set	1950 Mar 18 19:25	18°♃52'25					

morning set	1951 Feb 28 21:40	0°♄37'34			1952 Jan 13 06:44	0°♄		
max. Earth dist.	1951 Mar 04 14:47	7°♄15'11	1.37581 AU	desc. node	1952 Jan 18 14:15	7°♄03'11		
					1952 Feb 03 01:38	0°♄		
superior conj	1951 Mar 11 10:10	20°♄01'52	-1°-35'-49	morning set	1952 Feb 09 22:13	11°♄06'04		
minimum elong	1951 Mar 11 14:26	20°♄22'30	1°35'19	max. Earth dist.	1952 Feb 14 09:54	18°♄42'04	1.39721 AU	
	1951 Mar 16 11:53	0°♄			1952 Feb 20 18:55	0°♄		
evening rise	1951 Mar 20 02:21	7°♄10'30						
asc. node	1951 Mar 22 08:37	11°♄37'46		superior conj	1952 Feb 22 02:47	2°♄25'45	-1°-55'-3	
	1951 Apr 02 03:27	0°♄		minimum elong	1952 Feb 22 06:28	2°♄42'43	1°54'49	
evening max el	1951 Apr 05 19:43	4°♄14'10	19°12'05	evening rise	1952 Mar 02 18:24	20°♄40'31		
retrograde	1951 Apr 14 17:50	8°♄33'23			1952 Mar 07 17:10	0°♄		
evening set	1951 Apr 16 20:23	8°♄19'58		asc. node	1952 Mar 08 05:38	0°♄56'49		
inferior conj	1951 Apr 25 04:02	4°♄09'04	1°16'07	evening max el	1952 Mar 18 22:40	16°♄39'59	18°31'16	
minimum elong	1951 Apr 25 06:57	4°♄04'09	1°15'09	retrograde	1952 Mar 26 13:54	20°♄25'01		
min. Earth dist.	1951 Apr 28 02:04	2°♄11'33	0.56403 AU	evening set	1952 Mar 28 21:49	20°♄05'11		
desc. node	1951 Apr 29 16:23	1°♄11'44		inferior conj	1952 Apr 05 10:33	15°♄35'10	2°36'17	
	1951 May 01 21:25	30°♄		minimum elong	1952 Apr 05 14:32	15°♄27'17	2°35'17	
morning rise	1951 May 03 13:26	29°♄17'09		min. Earth dist.	1952 Apr 08 20:44	12°♄54'08	0.58235 AU	
direct	1951 May 08 11:50	28°♄20'48		morning rise	1952 Apr 13 03:00	10°♄11'14		
	1951 May 15 01:40	0°♄		desc. node	1952 Apr 15 13:23	9°♄12'34		
morning max el	1951 May 22 17:12	5°♄37'23	25°23'41	direct	1952 Apr 19 01:32	8°♄40'49		
	1951 Jun 09 08:43	0°♄		morning max el	1952 May 03 10:48	16°♄20'25	26°44'55	
morning set	1951 Jun 18 14:17	18°♄01'41			1952 May 14 14:43	0°♄		
asc. node	1951 Jun 18 07:52	17°♄27'54			1952 May 31 15:26	0°♄		
	1951 Jun 24 03:13	0°♄		morning set	1952 Jun 02 00:36	2°♄52'19		
				asc. node	1952 Jun 04 04:55	7°♄30'21		
superior conj	1951 Jun 25 14:33	3°♄13'26	1°10'07					
minimum elong	1951 Jun 25 12:10	3°♄00'27	1°09'43	superior conj	1952 Jun 09 02:14	18°♄11'00	0°49'38	
max. Earth dist.	1951 Jun 26 16:37	5°♄35'51	1.32618 AU	minimum elong	1952 Jun 09 00:17	18°♄00'11	0°49'16	
evening rise	1951 Jul 02 17:58	18°♄29'56		max. Earth dist.	1952 Jun 09 04:10	18°♄21'37	1.32229 AU	
	1951 Jul 08 13:39	0°♄			1952 Jun 14 12:22	0°♄		
desc. node	1951 Jul 26 15:45	28°♄45'06		evening rise	1952 Jun 16 00:53	3°♄13'27		
	1951 Jul 27 15:24	0°♄			1952 Jun 30 10:27	0°♄		
evening max el	1951 Aug 03 18:42	7°♄53'15	27°18'40	desc. node	1952 Jul 12 12:43	16°♄28'51		
retrograde	1951 Aug 17 14:04	15°♄09'06		evening max el	1952 Jul 15 21:17	19°♄56'41	26°40'03	
evening set	1951 Aug 24 18:33	12°♄43'09		retrograde	1952 Jul 29 20:31	27°♄09'54		
min. Earth dist.	1951 Aug 28 08:40	9°♄52'29	0.62195 AU	evening set	1952 Aug 05 15:29	25°♄11'56		
inferior conj	1951 Aug 31 08:09	7°♄07'04	-4°-1'-39	min. Earth dist.	1952 Aug 09 10:57	22°♄35'35	0.60174 AU	
minimum elong	1951 Aug 31 13:28	6°♄54'41	4°00'23	inferior conj	1952 Aug 12 17:51	19°♄55'42	-4°-41'-4	
morning rise	1951 Sep 07 11:08	2°♄03'34		minimum elong	1952 Aug 12 21:53	19°♄47'28	4°40'33	
direct	1951 Sep 09 20:22	1°♄38'34		morning rise	1952 Aug 20 07:36	15°♄14'31		
asc. node	1951 Sep 14 07:03	3°♄07'59		direct	1952 Aug 22 16:54	14°♄53'14		
morning max el	1951 Sep 16 16:10	5°♄06'03	17°53'20	morning max el	1952 Aug 30 03:54	18°♄31'43	18°11'09	
morning set	1951 Oct 02 15:14	0°♄03'38		asc. node	1952 Aug 31 04:06	19°♄33'35		
	1951 Oct 02 14:25	0°♄			1952 Sep 07 12:02	0°♄		
				morning set	1952 Sep 14 23:54	13°♄38'15		
superior conj	1951 Oct 13 14:52	19°♄27'35	0°58'56		1952 Sep 23 18:45	0°♄		
minimum elong	1951 Oct 13 19:24	19°♄46'57	0°58'21					
	1951 Oct 19 21:52	0°♄		superior conj	1952 Sep 24 14:03	1°♄27'19	1°25'24	
max. Earth dist.	1951 Oct 20 20:22	1°♄31'58	1.43037 AU	minimum elong	1952 Sep 24 17:58	1°♄45'02	1°25'01	
desc. node	1951 Oct 22 15:04	4°♄25'08		max. Earth dist.	1952 Oct 02 04:56	14°♄46'49	1.41235 AU	
evening rise	1951 Oct 28 05:25	13°♄18'11		evening rise	1952 Oct 07 07:33	23°♄14'43		
	1951 Nov 08 04:59	0°♄		desc. node	1952 Oct 08 12:04	25°♄09'55		
greatest brilliancy	1951 Nov 23 14:29	21°♄23'45	-0.4m		1952 Oct 11 13:05	0°♄		
evening max el	1951 Nov 28 11:21	26°♄57'37	21°39'59		1952 Nov 01 05:34	0°♄		
	1951 Dec 01 20:41	0°♄		greatest brilliancy	1952 Nov 04 18:19	4°♄27'44	-0.2m	
retrograde	1951 Dec 07 11:57	2°♄19'56		evening max el	1952 Nov 10 03:27	10°♄30'12	22°58'29	
evening set	1951 Dec 11 17:36	0°♄40'58		retrograde	1952 Nov 20 06:43	16°♄31'09		
asc. node	1951 Dec 11 06:17	1°♄02'03		evening set	1952 Nov 25 00:47	14°♄35'22		
	1951 Dec 12 12:40	30°♄		asc. node	1952 Nov 27 03:18	12°♄29'27		
inferior conj	1951 Dec 17 03:09	24°♄21'51	1°54'17	inferior conj	1952 Nov 30 10:37	8°♄10'54	1°06'52	
minimum elong	1951 Dec 17 00:53	24°♄29'42	1°53'27	minimum elong	1952 Nov 30 09:07	8°♄16'02	1°06'15	
min. Earth dist.	1951 Dec 17 07:02	24°♄08'21	0.67718 AU	min. Earth dist.	1952 Nov 30 03:43	8°♄34'42	0.67821 AU	
morning rise	1951 Dec 22 07:54	18°♄07'22		morning rise	1952 Dec 05 17:27	1°♄59'19		
direct	1951 Dec 27 06:38	16°♄01'24		direct	1952 Dec 10 01:28	0°♄16'09		
morning max el	1952 Jan 06 08:37	22°♄00'27	23°02'02	morning max el	1952 Dec 18 22:22	5°♄27'53	21°36'41	
greatest brilliancy	1952 Jan 11 04:21	27°♄23'47	-0.3m	greatest brilliancy	1952 Dec 23 20:57	11°♄04'29	-0.4m	

desc. node	1953 Jan 04 11:17	26°♁56'25		transit begin	1953 Nov 14 15:37	22°♁08'34	
	1953 Jan 06 13:24	0°♁		transit end	1953 Nov 14 18:11	21°♁59'57	
morning set	1953 Jan 19 17:32	20°♁10'58		morning rise	1953 Nov 20 04:17	15°♁56'51	
	1953 Jan 25 19:10	0°♁		direct	1953 Nov 23 22:55	14°♁35'21	
max. Earth dist.	1953 Jan 26 09:23	0°♁58'41	1.41800 AU	morning max el	1953 Dec 01 19:19	19°♁05'58	20°21'08
				greatest brilliancy	1953 Dec 08 06:47	26°♁49'33	-0.5m
superior conj	1953 Feb 02 23:11	13°♁50'04	-2°-4'-36		1953 Dec 10 14:48	0°♁	
minimum elong	1953 Feb 03 00:02	13°♁53'46	2°04'36	desc. node	1953 Dec 22 08:20	17°♁10'15	
	1953 Feb 11 23:57	0°♁		morning set	1953 Dec 29 15:52	28°♁21'41	
evening rise	1953 Feb 13 22:03	3°♁31'02			1953 Dec 30 17:14	0°♁	
asc. node	1953 Feb 23 02:39	19°♁48'37		max. Earth dist.	1954 Jan 08 16:52	14°♁11'06	1.43534 AU
evening max el	1953 Mar 02 07:51	29°♁32'40	18°10'27				
	1953 Mar 02 19:21	0°♁		superior conj	1954 Jan 14 18:33	24°♁04'42	-1°-59'-29
retrograde	1953 Mar 09 03:44	2°♁59'39		minimum elong	1954 Jan 14 14:14	23°♁46'51	1°59'20
evening set	1953 Mar 11 17:11	2°♁31'08			1954 Jan 18 07:43	0°♁	
	1953 Mar 15 21:16	30°♁		evening rise	1954 Jan 27 09:07	15°♁33'59	
inferior conj	1953 Mar 18 13:36	27°♁39'50	3°23'03		1954 Feb 04 18:03	0°♁	
minimum elong	1953 Mar 18 16:15	27°♁33'45	3°22'40	asc. node	1954 Feb 09 23:40	8°♁04'51	
min. Earth dist.	1953 Mar 21 21:08	24°♁38'46	0.60368 AU	evening max el	1954 Feb 13 20:05	12°♁43'40	18°09'04
morning rise	1953 Mar 25 11:59	21°♁53'36		retrograde	1954 Feb 20 07:33	16°♁07'38	
direct	1953 Apr 01 03:36	19°♁46'52		evening set	1954 Feb 23 02:06	15°♁29'09	
desc. node	1953 Apr 02 10:26	19°♁51'25		inferior conj	1954 Mar 01 09:51	10°♁16'50	3°42'10
morning max el	1953 Apr 15 10:14	27°♁38'16	27°35'31	minimum elong	1954 Mar 01 10:29	10°♁15'09	3°42'08
	1953 Apr 17 16:48	0°♁		min. Earth dist.	1954 Mar 04 05:37	7°♁20'38	0.62467 AU
	1953 May 08 06:24	0°♁		morning rise	1954 Mar 07 16:38	4°♁16'53	
morning set	1953 May 17 07:41	17°♁30'59		direct	1954 Mar 14 15:06	1°♁42'17	
asc. node	1953 May 22 01:58	27°♁38'21		desc. node	1954 Mar 20 07:29	3°♁12'31	
	1953 May 23 03:58	0°♁		morning max el	1954 Mar 28 15:27	9°♁37'31	27°49'18
max. Earth dist.	1953 May 23 16:00	1°♁05'46	1.32226 AU		1954 Apr 13 11:34	0°♁	
					1954 Apr 30 11:26	0°♁	
superior conj	1953 May 24 13:39	3°♁04'26	0°26'02	morning set	1954 May 01 09:28	1°♁50'54	
minimum elong	1953 May 24 12:30	2°♁58'08	0°25'48	max. Earth dist.	1954 May 07 00:21	13°♁35'53	1.32624 AU
evening rise	1953 May 31 11:13	18°♁04'31					
	1953 Jun 06 08:23	0°♁		superior conj	1954 May 08 23:02	17°♁47'55	0°00'01
	1953 Jun 26 11:01	0°♁		minimum elong	1954 May 08 23:03	17°♁47'56	0°00'01
evening max el	1953 Jun 27 16:57	1°♁14'02	25°31'00	behind sun begin	1954 May 08 18:16	17°♁22'03	
desc. node	1953 Jun 29 09:43	2°♁46'36		behind sun end	1954 May 09 03:49	18°♁13'49	
retrograde	1953 Jul 11 17:25	8°♁22'31		asc. node	1954 May 08 23:00	17°♁47'43	
evening set	1953 Jul 17 13:45	7°♁02'23			1954 May 14 13:57	0°♁	
min. Earth dist.	1953 Jul 22 05:05	4°♁22'08	0.58125 AU	evening rise	1954 May 15 23:01	2°♁56'27	
inferior conj	1953 Jul 25 09:27	2°♁07'54	-4°-58'-3		1954 May 30 16:13	0°♁	
minimum elong	1953 Jul 25 09:42	2°♁07'28	4°58'03	evening max el	1954 Jun 09 07:20	11°♁54'08	24°00'53
	1953 Jul 28 13:40	30°♁		desc. node	1954 Jun 16 06:44	17°♁04'56	
morning rise	1953 Aug 02 09:16	27°♁49'30		retrograde	1954 Jun 23 02:09	18°♁50'00	
direct	1953 Aug 04 21:21	27°♁30'01		evening set	1954 Jun 27 12:56	18°♁06'17	
	1953 Aug 11 14:04	0°♁		min. Earth dist.	1954 Jul 03 18:04	15°♁05'40	0.56354 AU
morning max el	1953 Aug 13 08:41	1°♁30'21	18°49'33	inferior conj	1954 Jul 06 04:48	13°♁35'19	-4°-38'-28
asc. node	1953 Aug 18 01:11	7°♁02'43		minimum elong	1954 Jul 05 23:40	13°♁43'16	4°37'46
morning set	1953 Aug 29 19:27	27°♁45'03		morning rise	1954 Jul 14 13:53	9°♁36'06	
	1953 Aug 30 22:59	0°♁		direct	1954 Jul 17 06:50	9°♁17'04	
				morning max el	1954 Jul 27 03:36	13°♁51'42	19°49'24
superior conj	1953 Sep 07 09:35	14°♁27'44	1°40'23	asc. node	1954 Aug 04 22:15	25°♁20'35	
minimum elong	1953 Sep 07 11:44	14°♁37'53	1°40'16		1954 Aug 07 14:44	0°♁	
max. Earth dist.	1953 Sep 14 09:27	27°♁19'59	1.39206 AU	morning set	1954 Aug 13 22:26	12°♁13'58	
	1953 Sep 15 21:45	0°♁					
evening rise	1953 Sep 18 09:27	4°♁17'59		superior conj	1954 Aug 21 20:01	28°♁12'33	1°45'42
desc. node	1953 Sep 25 09:05	15°♁48'41		minimum elong	1954 Aug 21 20:17	28°♁13'57	1°45'42
	1953 Oct 04 16:40	0°♁			1954 Aug 22 17:42	0°♁	
evening max el	1953 Oct 23 16:34	24°♁07'09	24°18'14	max. Earth dist.	1954 Aug 27 14:04	9°♁21'08	1.37197 AU
	1953 Oct 31 15:49	0°♁		evening rise	1954 Aug 31 10:27	16°♁25'55	
retrograde	1953 Nov 03 21:50	0°♁41'23			1954 Sep 08 08:05	0°♁	
	1953 Nov 06 22:19	30°♁		desc. node	1954 Sep 12 06:06	6°♁16'20	
evening set	1953 Nov 09 05:48	28°♁28'37			1954 Sep 29 04:06	0°♁	
min. Earth dist.	1953 Nov 13 23:51	23°♁01'33	0.67596 AU	evening max el	1954 Oct 06 04:37	7°♁47'00	25°32'17
asc. node	1953 Nov 14 00:21	22°♁59'52		retrograde	1954 Oct 18 08:25	14°♁45'38	
inferior conj	1953 Nov 14 17:15	22°♁03'04	0°14'31	evening set	1954 Oct 24 06:56	12°♁17'26	
minimum elong	1953 Nov 14 16:54	22°♁04'15	0°14'22	min. Earth dist.	1954 Oct 28 16:59	7°♁25'48	0.67037 AU

inferior conj	1954 Oct 29 21:15	5°♁55'05	0°-41'-28	inferior conj	1955 Oct 13 20:41	19°♁43'55	-1°-39'-35
minimum elong	1954 Oct 29 22:19	5°♁51'39	0°41'01	minimum elong	1955 Oct 13 23:20	19°♁35'57	1°38'30
asc. node	1954 Oct 31 21:26	3°♁25'05		asc. node	1955 Oct 18 18:30	14°♁40'32	
morning rise	1954 Nov 04 14:26	29°♁57'05		morning rise	1955 Oct 19 21:44	13°♁57'02	
	1954 Nov 04 12:36	30°♁		direct	1955 Oct 22 19:22	13°♁09'41	
direct	1954 Nov 07 21:30	28°♁54'28		morning max el	1955 Oct 29 11:21	16°♁49'19	18°33'10
	1954 Nov 11 10:25	0°♁			1955 Nov 08 06:57	0°♁	
morning max el	1954 Nov 15 00:07	2°♁54'16	19°19'19	morning set	1955 Nov 18 16:31	16°♁28'55	
greatest brilliancy	1954 Nov 24 14:53	15°♁19'43	-0.7m	desc. node	1955 Nov 26 02:25	28°♁16'34	
	1954 Dec 04 07:02	0°♁			1955 Nov 27 04:34	0°♁	
morning set	1954 Dec 08 16:27	6°♁48'11		superior conj	1955 Dec 04 14:09	11°♁38'57	0°-54'-46
desc. node	1954 Dec 09 05:23	7°♁38'25		minimum elong	1955 Dec 04 07:16	11°♁11'56	0°53'55
max. Earth dist.	1954 Dec 22 07:27	28°♁06'26	1.44690 AU	max. Earth dist.	1955 Dec 05 01:51	12°♁24'50	1.45143 AU
	1954 Dec 23 12:10	0°♁			1955 Dec 16 06:06	0°♁	
superior conj	1954 Dec 25 12:07	3°♁10'21	-1°-35'-44	evening rise	1955 Dec 20 14:18	6°♁52'38	
minimum elong	1954 Dec 25 03:31	2°♁36'08	1°34'58		1956 Jan 04 09:16	0°♁	
evening rise	1955 Jan 08 23:23	26°♁42'01		evening max el	1956 Jan 11 18:29	9°♁32'12	19°01'40
	1955 Jan 10 23:05	0°♁		asc. node	1956 Jan 14 17:45	12°♁04'53	
asc. node	1955 Jan 27 20:43	25°♁34'44		retrograde	1956 Jan 18 15:52	13°♁26'52	
evening max el	1955 Jan 28 08:28	26°♁05'22	18°26'30	evening set	1956 Jan 21 21:47	12°♁25'43	
retrograde	1955 Feb 03 20:55	29°♁39'18		inferior conj	1956 Jan 27 13:59	6°♁37'01	3°23'55
evening set	1955 Feb 06 20:40	28°♁50'00		minimum elong	1956 Jan 27 11:50	6°♁43'46	3°23'34
inferior conj	1955 Feb 12 19:12	23°♁18'18	3°40'38	min. Earth dist.	1956 Jan 29 03:11	4°♁39'56	0.65764 AU
minimum elong	1955 Feb 12 18:09	23°♁21'22	3°40'34	morning rise	1956 Feb 02 00:56	0°♁24'10	
min. Earth dist.	1955 Feb 14 23:44	20°♁46'01	0.64299 AU		1956 Feb 02 12:18	30°♁	
morning rise	1955 Feb 18 14:10	17°♁10'11		direct	1956 Feb 08 12:10	27°♁35'10	
direct	1955 Feb 25 10:17	14°♁21'25			1956 Feb 15 06:34	0°♁	
desc. node	1955 Mar 07 04:33	18°♁44'18		morning max el	1956 Feb 21 10:25	5°♁12'39	26°34'03
morning max el	1955 Mar 11 00:28	22°♁13'12	27°27'00	desc. node	1956 Feb 22 01:36	5°♁51'22	
	1955 Mar 17 20:49	0°♁			1956 Mar 11 10:27	0°♁	
	1955 Apr 06 16:14	0°♁		morning set	1956 Mar 28 09:46	28°♁58'48	
morning set	1955 Apr 15 03:22	15°♁44'08			1956 Mar 28 22:41	0°♁	
max. Earth dist.	1955 Apr 20 01:23	25°♁40'34	1.33444 AU	max. Earth dist.	1956 Apr 01 15:25	7°♁10'43	1.34714 AU
	1955 Apr 22 02:57	0°♁		superior conj	1956 Apr 06 03:55	16°♁19'42	0°-55'-25
superior conj	1955 Apr 23 04:35	2°♁15'40	0°-27'-30	minimum elong	1956 Apr 06 06:43	16°♁34'08	0°54'55
minimum elong	1955 Apr 23 05:57	2°♁22'58	0°27'14	asc. node	1956 Apr 11 17:04	27°♁54'14	
asc. node	1955 Apr 25 20:03	7°♁54'42			1956 Apr 12 17:10	0°♁	
evening rise	1955 Apr 30 10:27	17°♁43'05		evening rise	1956 Apr 13 19:29	2°♁16'43	
	1955 May 06 13:05	0°♁			1956 Apr 29 22:41	0°♁	
evening max el	1955 May 21 22:34	22°♁23'58	22°24'45	evening max el	1956 May 02 21:57	3°♁13'46	20°56'35
desc. node	1955 Jun 03 03:45	28°♁49'10		retrograde	1956 May 14 12:12	8°♁52'33	
retrograde	1955 Jun 03 22:46	28°♁50'36		evening set	1956 May 16 16:45	8°♁41'13	
evening set	1955 Jun 06 23:41	28°♁30'14		desc. node	1956 May 20 00:48	7°♁44'19	
min. Earth dist.	1955 Jun 15 05:31	24°♁56'04	0.55201 AU	inferior conj	1956 May 26 00:11	4°♁43'18	-1°-43'-39
inferior conj	1955 Jun 16 06:26	24°♁20'49	-3°-31'-25	minimum elong	1956 May 25 19:19	4°♁50'12	1°41'57
minimum elong	1955 Jun 15 22:32	24°♁32'01	3°29'19	min. Earth dist.	1956 May 26 17:56	4°♁18'06	0.54930 AU
morning rise	1955 Jun 24 23:40	20°♁29'21		morning rise	1956 Jun 03 21:17	0°♁39'59	
direct	1955 Jun 27 23:11	20°♁09'13		direct	1956 Jun 07 08:34	0°♁14'01	
morning max el	1955 Jul 09 11:12	25°♁30'16	21°09'41	morning max el	1956 Jun 20 08:29	6°♁27'16	22°45'50
	1955 Jul 13 14:44	0°♁			1956 Jul 06 19:02	0°♁	
asc. node	1955 Jul 22 19:19	14°♁15'50		asc. node	1956 Jul 08 16:22	3°♁38'27	
morning set	1955 Jul 29 06:19	26°♁58'03		morning set	1956 Jul 12 17:01	11°♁50'49	
	1955 Jul 30 17:22	0°♁		superior conj	1956 Jul 19 21:01	27°♁07'27	1°34'16
superior conj	1955 Aug 05 16:57	12°♁29'25	1°43'10	minimum elong	1956 Jul 19 18:57	26°♁56'31	1°34'05
minimum elong	1955 Aug 05 15:47	12°♁23'25	1°43'07		1956 Jul 21 05:35	0°♁	
max. Earth dist.	1955 Aug 10 00:04	21°♁12'30	1.35425 AU	max. Earth dist.	1956 Jul 22 18:48	3°♁15'03	1.34016 AU
evening rise	1955 Aug 14 06:28	29°♁28'34		evening rise	1956 Jul 27 16:50	13°♁13'13	
	1955 Aug 14 13:08	0°♁			1956 Aug 05 19:06	0°♁	
desc. node	1955 Aug 30 03:07	26°♁27'08		desc. node	1956 Aug 16 00:09	16°♁13'24	
	1955 Sep 01 12:06	0°♁			1956 Aug 26 13:30	0°♁	
evening max el	1955 Sep 18 16:43	21°♁24'55	26°33'05	evening max el	1956 Aug 31 04:42	4°♁52'17	27°13'15
retrograde	1955 Oct 01 13:58	28°♁38'09		retrograde	1956 Sep 13 14:08	12°♁11'06	
evening set	1955 Oct 08 02:11	25°♁58'42		evening set	1956 Sep 20 13:10	9°♁28'05	
min. Earth dist.	1955 Oct 12 04:45	21°♁43'55	0.66129 AU	min. Earth dist.	1956 Sep 24 08:57	5°♁49'45	0.64860 AU

inferior conj	1956 Sep 26 13:20	3°♁25'11	-2°-37'-48	evening max el	1957 Aug 13 15:11	17°♎57'25	27°25'57
minimum elong	1956 Sep 26 17:31	3°♁13'38	2°36'18	retrograde	1957 Aug 27 08:04	25°♎15'03	
	1956 Sep 29 21:25	30°♎		evening set	1957 Sep 03 12:39	22°♎39'27	
morning rise	1956 Oct 02 23:43	27°♎52'27		min. Earth dist.	1957 Sep 07 03:41	19°♎33'36	0.63250 AU
asc. node	1956 Oct 04 15:33	27°♎21'19		inferior conj	1957 Sep 09 20:32	16°♎52'30	-3°-33'-4
direct	1956 Oct 05 14:21	27°♎16'31		minimum elong	1957 Sep 10 01:45	16°♎39'31	3°31'33
	1956 Oct 11 07:30	0°♁		morning rise	1957 Sep 16 17:17	11°♎37'08	
morning max el	1956 Oct 12 02:29	0°♁45'14	18°03'44	direct	1957 Sep 19 03:37	11°♎09'01	
morning set	1956 Oct 29 21:47	27°♁36'01		asc. node	1957 Sep 21 12:36	11°♎36'24	
	1956 Oct 31 08:19	0°♎		morning max el	1957 Sep 25 18:38	14°♎34'54	17°51'49
desc. node	1956 Nov 11 23:27	19°♎01'07			1957 Oct 06 11:09	0°♁	
				morning set	1957 Oct 12 03:51	9°♁54'26	
superior conj	1956 Nov 12 21:36	20°♎29'41	0°-6'-13		1957 Oct 23 20:50	0°♎	
minimum elong	1956 Nov 12 20:50	20°♎26'36	0°06'08	superior conj	1957 Oct 24 03:28	0°♎27'34	0°38'10
behind sun begin	1956 Nov 12 10:53	19°♎46'52		minimum elong	1957 Oct 24 07:08	0°♎42'49	0°37'39
behind sun end	1956 Nov 13 06:46	21°♎06'18		desc. node	1957 Oct 29 20:29	9°♎48'12	
max. Earth dist.	1956 Nov 16 20:36	26°♎46'44	1.44854 AU	max. Earth dist.	1957 Oct 30 13:10	10°♎55'22	1.43872 AU
	1956 Nov 18 21:42	0°♁		evening rise	1957 Nov 08 16:37	25°♎18'20	
evening rise	1956 Nov 29 08:22	16°♁15'12			1957 Nov 11 18:00	0°♁	
	1956 Dec 08 07:11	0°♁			1957 Dec 02 11:19	0°♁	
greatest brilliancy	1956 Dec 17 18:30	13°♁59'19	-0.6m	greatest brilliancy	1957 Dec 02 14:35	0°♁10'31	-0.5m
evening max el	1956 Dec 25 00:18	23°♁01'43	19°52'58	evening max el	1957 Dec 08 00:45	6°♁32'10	20°57'56
asc. node	1956 Dec 31 14:48	27°♁20'51		retrograde	1957 Dec 16 11:05	11°♁31'46	
retrograde	1957 Jan 01 13:23	27°♁25'46		asc. node	1957 Dec 18 11:50	11°♁08'46	
evening set	1957 Jan 05 03:02	26°♁11'17		evening set	1957 Dec 20 10:22	10°♁02'16	
inferior conj	1957 Jan 10 15:12	20°♁08'23	2°55'48	inferior conj	1957 Dec 25 20:25	3°♁48'17	2°18'51
minimum elong	1957 Jan 10 12:36	20°♁17'04	2°55'09	minimum elong	1957 Dec 25 17:53	3°♁56'58	2°18'01
min. Earth dist.	1957 Jan 11 14:22	18°♁51'18	0.66832 AU	min. Earth dist.	1957 Dec 26 07:00	3°♁11'55	0.67506 AU
morning rise	1957 Jan 15 21:32	13°♁53'20			1957 Dec 28 17:30	30°♁	
direct	1957 Jan 21 19:56	11°♁15'29		morning rise	1957 Dec 31 01:00	27°♁33'06	
morning max el	1957 Feb 02 19:20	18°♁23'56	25°19'16	direct	1958 Jan 05 08:38	25°♁14'10	
desc. node	1957 Feb 07 22:38	24°♁06'33			1958 Jan 14 10:03	0°♁	
	1957 Feb 12 14:30	0°♁		morning max el	1958 Jan 16 03:40	1°♁40'13	23°52'55
	1957 Mar 04 11:34	0°♁		desc. node	1958 Jan 25 19:40	13°♁09'51	
morning set	1957 Mar 10 23:59	11°♁21'31			1958 Feb 06 15:21	0°♁	
max. Earth dist.	1957 Mar 14 17:41	18°♁14'08	1.36431 AU	morning set	1958 Feb 20 16:00	22°♁35'35	
				max. Earth dist.	1958 Feb 24 12:59	29°♁21'08	1.38484 AU
superior conj	1957 Mar 20 18:19	29°♁52'40	-1°-22'-1		1958 Feb 24 21:44	0°♁	
minimum elong	1957 Mar 20 22:16	0°♁12'14	1°21'27	superior conj	1958 Mar 03 20:12	12°♁45'06	-1°-44'-53
	1957 Mar 20 19:48	0°♁		minimum elong	1958 Mar 04 00:26	13°♁05'10	1°44'28
evening rise	1957 Mar 29 00:01	16°♁31'08			1958 Mar 12 17:31	0°♁	
asc. node	1957 Mar 29 14:06	17°♁42'08		evening rise	1958 Mar 12 21:29	0°♁19'21	
	1957 Apr 04 23:37	0°♁		asc. node	1958 Mar 16 11:08	7°♁13'19	
evening max el	1957 Apr 15 09:04	14°♁41'24	19°44'40	evening max el	1958 Mar 29 07:05	26°♁48'01	18°52'15
retrograde	1957 Apr 25 05:32	19°♁26'45			1958 Apr 02 19:17	0°♁	
evening set	1957 Apr 27 06:10	19°♁15'34		retrograde	1958 Apr 06 14:24	0°♁50'11	
inferior conj	1957 May 06 00:34	15°♁13'31	0°15'22	evening set	1958 Apr 08 19:17	0°♁34'17	
minimum elong	1957 May 06 01:14	15°♁12'28	0°15'07		1958 Apr 10 13:52	30°♁	
transit begin	1957 May 05 23:59	15°♁14'26		inferior conj	1958 Apr 16 18:45	26°♁15'55	1°54'21
transit end	1957 May 06 02:30	15°♁10'31		minimum elong	1958 Apr 16 22:31	26°♁09'06	1°53'12
desc. node	1957 May 06 21:48	14°♁40'23		min. Earth dist.	1958 Apr 20 00:11	23°♁57'30	0.57129 AU
min. Earth dist.	1957 May 08 07:59	13°♁47'34	0.55625 AU	desc. node	1958 Apr 23 18:48	21°♁40'37	
morning rise	1957 May 14 16:55	10°♁41'16		morning rise	1958 Apr 24 21:27	21°♁09'47	
direct	1957 May 19 01:04	9°♁59'22		direct	1958 Apr 30 06:57	19°♁59'43	
morning max el	1957 Jun 01 23:35	16°♁57'27	24°27'51	morning max el	1958 May 14 14:33	27°♁27'18	26°01'15
	1957 Jun 12 13:40	0°♁			1958 May 17 01:53	0°♁	
asc. node	1957 Jun 25 13:23	23°♁21'07		morning set	1958 Jun 05 20:59	0°♁	
morning set	1957 Jun 27 04:50	26°♁46'57		asc. node	1958 Jun 11 16:11	11°♁41'34	
	1957 Jun 28 17:08	0°♁			1958 Jun 12 10:25	13°♁18'02	
superior conj	1957 Jul 04 05:37	11°♁58'26	1°20'12	superior conj	1958 Jun 18 16:43	26°♁55'42	1°01'51
minimum elong	1957 Jul 04 03:13	11°♁45'22	1°19'52	minimum elong	1958 Jun 18 14:28	26°♁43'19	1°01'28
max. Earth dist.	1957 Jul 05 22:20	15°♁38'42	1.33014 AU	max. Earth dist.	1958 Jun 19 08:11	28°♁20'32	1.32408 AU
evening rise	1957 Jul 11 13:36	27°♁28'29			1958 Jun 20 02:20	0°♁	
	1957 Jul 12 19:41	0°♁		evening rise	1958 Jun 25 17:37	12°♁04'46	
	1957 Jul 30 01:44	0°♁					
desc. node	1957 Aug 02 21:09	5°♁24'30					

	1958 Jul 04 23:46	0°♁		evening rise	1959 Jun 10 02:16	26°♁52'26	
desc. node	1958 Jul 20 18:08	23°♁46'09			1959 Jun 11 14:11	0°♁	
	1958 Jul 26 10:08	0°♁			1959 Jun 28 16:31	0°♁	
evening max el	1958 Jul 26 21:37	0°♁27'33	27°06'26	desc. node	1959 Jul 07 15:09	10°♁56'50	
retrograde	1958 Aug 09 18:47	7°♁41'34		evening max el	1959 Jul 08 21:19	12°♁11'05	26°13'58
evening set	1958 Aug 16 20:39	5°♁26'19		retrograde	1959 Jul 22 21:02	19°♁22'08	
min. Earth dist.	1958 Aug 20 11:54	2°♁43'31	0.61353 AU	evening set	1959 Jul 29 08:20	17°♁39'25	
inferior conj	1958 Aug 23 15:10	29°♁58'34	-4°-20'-24	min. Earth dist.	1959 Aug 02 10:06	15°♁03'58	0.59296 AU
minimum elong	1958 Aug 23 20:13	29°♁47'26	4°19'25	inferior conj	1959 Aug 05 17:33	12°♁32'36	-4°-51'-48
	1958 Aug 23 14:31	30°♁		minimum elong	1959 Aug 05 20:18	12°♁27'20	4°51'35
morning rise	1958 Aug 30 22:44	25°♁03'56		morning rise	1959 Aug 13 11:42	8°♁01'16	
direct	1958 Sep 02 07:42	24°♁40'41		direct	1959 Aug 15 22:05	7°♁40'48	
asc. node	1958 Sep 08 09:38	27°♁18'41		morning max el	1959 Aug 23 17:59	11°♁26'42	18°24'56
morning max el	1958 Sep 09 08:51	28°♁11'45	17°58'27	asc. node	1959 Aug 26 06:42	14°♁12'46	
	1958 Sep 11 01:10	0°♁			1959 Sep 05 02:28	0°♁	
morning set	1958 Sep 25 04:26	23°♁06'12		morning set	1959 Sep 08 18:13	6°♁55'37	
	1958 Sep 28 22:45	0°♁					
superior conj	1958 Oct 05 12:31	11°♁45'34	1°11'38	superior conj	1959 Sep 17 21:05	24°♁12'57	1°33'04
minimum elong	1958 Oct 05 17:02	12°♁05'21	1°11'07	minimum elong	1959 Sep 18 00:18	24°♁27'50	1°32'48
max. Earth dist.	1958 Oct 13 01:31	24°♁35'38	1.42320 AU		1959 Sep 21 01:20	0°♁	
	1958 Oct 16 08:52	0°♁		max. Earth dist.	1959 Sep 25 08:26	7°♁33'48	1.40387 AU
desc. node	1958 Oct 16 17:30	0°♁34'52		evening rise	1959 Sep 29 20:01	15°♁08'34	
evening rise	1958 Oct 19 08:12	4°♁45'23		desc. node	1959 Oct 03 14:31	21°♁17'14	
	1958 Nov 05 02:36	0°♁			1959 Oct 09 04:02	0°♁	
greatest brilliancy	1958 Nov 16 02:36	14°♁45'14	-0.3m	evening max el	1959 Oct 31 10:16	0°♁	
evening max el	1958 Nov 20 19:42	20°♁03'48	22°12'48		1959 Nov 03 01:14	3°♁37'36	23°32'36
retrograde	1958 Nov 30 07:16	25°♁42'09		retrograde	1959 Nov 14 00:37	9°♁53'28	
evening set	1958 Dec 04 18:05	23°♁56'03		evening set	1959 Nov 19 00:35	7°♁50'06	
asc. node	1958 Dec 05 08:52	23°♁24'15		asc. node	1959 Nov 22 05:55	4°♁22'00	
inferior conj	1958 Dec 10 03:36	17°♁34'24	1°34'50	min. Earth dist.	1959 Nov 23 23:29	2°♁03'47	0.67766 AU
minimum elong	1958 Dec 10 01:37	17°♁41'16	1°34'05	inferior conj	1959 Nov 24 10:56	1°♁24'37	0°45'10
min. Earth dist.	1958 Dec 10 02:49	17°♁37'05	0.67811 AU	minimum elong	1959 Nov 24 09:53	1°♁28'12	0°44'44
morning rise	1958 Dec 15 08:59	11°♁21'05			1959 Nov 25 11:53	30°♁	
direct	1958 Dec 20 01:27	9°♁24'43		morning rise	1959 Nov 29 19:20	25°♁15'17	
morning max el	1958 Dec 29 14:27	15°♁02'35	22°24'53	direct	1959 Dec 03 21:25	23°♁41'46	
greatest brilliancy	1959 Jan 03 04:09	20°♁09'13	-0.3m	morning max el	1959 Dec 12 07:12	28°♁34'41	21°03'09
	1959 Jan 10 16:47	0°♁			1959 Dec 13 15:42	0°♁	
desc. node	1959 Jan 12 16:43	2°♁47'40		greatest brilliancy	1959 Dec 17 18:12	4°♁52'58	-0.5m
	1959 Jan 30 15:41	0°♁		desc. node	1959 Dec 30 13:46	22°♁50'18	
morning set	1959 Feb 01 04:05	2°♁27'23			1960 Jan 04 08:24	0°♁	
max. Earth dist.	1959 Feb 06 09:41	11°♁08'41	1.40637 AU	morning set	1960 Jan 11 12:37	11°♁03'23	
				max. Earth dist.	1960 Jan 19 12:56	23°♁51'36	1.42591 AU
					1960 Jan 23 06:16	0°♁	
superior conj	1959 Feb 14 04:54	24°♁45'17	-2°00'-34	superior conj	1960 Jan 26 15:10	5°♁40'51	-2°-4'-31
minimum elong	1959 Feb 14 07:43	24°♁57'54	2°00'27	minimum elong	1960 Jan 26 14:02	5°♁35'59	2°04'32
	1959 Feb 17 02:15	0°♁		evening rise	1960 Feb 07 05:57	26°♁05'30	
evening rise	1959 Feb 24 08:44	13°♁33'36			1960 Feb 09 10:13	0°♁	
asc. node	1959 Mar 03 08:10	26°♁21'36		asc. node	1960 Feb 18 05:13	14°♁59'46	
	1959 Mar 05 11:52	0°♁		evening max el	1960 Feb 23 23:56	22°♁27'44	18°07'28
evening max el	1959 Mar 12 13:06	9°♁26'14	18°19'56	retrograde	1960 Mar 01 15:10	25°♁52'08	
retrograde	1959 Mar 19 18:34	13°♁01'38		evening set	1960 Mar 04 06:42	25°♁19'35	
evening set	1959 Mar 22 04:59	12°♁38'12		inferior conj	1960 Mar 10 21:16	20°♁19'02	3°34'05
inferior conj	1959 Mar 29 10:17	7°♁58'49	2°59'59	minimum elong	1960 Mar 10 23:04	20°♁14'38	3°33'55
minimum elong	1959 Mar 29 13:53	7°♁51'13	2°59'13	min. Earth dist.	1960 Mar 14 00:26	17°♁17'14	0.61273 AU
min. Earth dist.	1959 Apr 01 20:42	5°♁06'28	0.59129 AU	morning rise	1960 Mar 17 12:34	14°♁25'46	
morning rise	1959 Apr 05 18:58	2°♁24'24		direct	1960 Mar 24 08:05	12°♁05'58	
desc. node	1959 Apr 10 15:52	0°♁43'49		desc. node	1960 Mar 27 12:55	12°♁34'31	
direct	1959 Apr 12 01:53	0°♁38'27		morning max el	1960 Apr 07 12:52	20°♁00'12	27°46'04
morning max el	1959 Apr 26 10:27	8°♁23'14	27°10'49		1960 Apr 16 02:22	0°♁	
	1959 May 12 19:48	0°♁			1960 May 04 16:45	0°♁	
morning set	1959 May 27 01:23	26°♁27'56		morning set	1960 May 10 06:33	11°♁00'00	
	1959 May 28 17:35	0°♁		max. Earth dist.	1960 May 16 07:32	23°♁48'51	1.32347 AU
asc. node	1959 May 30 07:27	3°♁23'12		asc. node	1960 May 16 04:30	23°♁32'25	
max. Earth dist.	1959 Jun 02 20:32	11°♁08'12	1.32184 AU				
				superior conj	1960 May 17 15:17	26°♁42'02	0°15'16
superior conj	1959 Jun 03 04:30	11°♁52'02	0°39'59	minimum elong	1960 May 17 14:35	26°♁38'13	0°15'07
minimum elong	1959 Jun 03 02:50	11°♁42'52	0°39'38				

behind sun begin	1960 May 17 13:02	26°♄29'45		morning set	1961 Apr 24 05:21	25°♃09'37	
behind sun end	1960 May 17 16:08	26°♄46'41			1961 Apr 26 14:34	0°♄	
	1960 May 19 03:27	0°♂		max. Earth dist.	1961 Apr 29 13:02	6°♄08'14	1.32916 AU
evening rise	1960 May 24 13:29	11°♂44'41					
	1960 Jun 02 20:31	0°♄		superior conj	1961 May 01 23:17	11°♄19'25	0°-11'-31
evening max el	1960 Jun 19 14:00	23°♄09'19	24°54'16	minimum elong	1961 May 01 23:51	11°♄22'26	0°11'25
desc. node	1960 Jun 23 12:09	26°♄28'07		behind sun begin	1961 May 01 20:09	11°♄02'30	
	1960 Jul 01 01:13	0°♂		behind sun end	1961 May 02 03:33	11°♄42'23	
retrograde	1960 Jul 03 13:15	0°♂14'36		asc. node	1961 May 03 01:34	13°♄41'07	
	1960 Jul 06 01:23	30°♄		evening rise	1961 May 09 01:20	26°♄34'37	
evening set	1960 Jul 08 20:22	29°♄10'37			1961 May 10 16:34	0°♂	
min. Earth dist.	1960 Jul 14 01:23	26°♄23'32	0.57321 AU		1961 May 28 17:23	0°♄	
inferior conj	1960 Jul 17 00:34	24°♄25'43	-4°-55'-2	evening max el	1961 Jun 01 03:46	3°♄40'58	23°19'49
minimum elong	1960 Jul 16 22:33	24°♄29'05	4°54'56	desc. node	1961 Jun 10 09:10	9°♄44'37	
morning rise	1960 Jul 25 04:30	20°♄16'43		retrograde	1961 Jun 14 17:06	10°♄27'17	
direct	1960 Jul 27 18:24	19°♄57'39		evening set	1961 Jun 18 12:15	9°♄55'40	
morning max el	1960 Aug 05 18:57	24°♄10'39	19°12'25	min. Earth dist.	1961 Jun 25 13:43	6°♄42'03	0.55767 AU
	1960 Aug 10 17:49	0°♂		inferior conj	1961 Jun 27 11:42	5°♄34'14	-4°-16'-1
asc. node	1960 Aug 12 03:45	2°♂03'51		minimum elong	1961 Jun 27 04:46	5°♄44'29	4°14'41
morning set	1960 Aug 22 17:14	21°♂12'13		morning rise	1961 Jul 06 00:28	1°♄40'01	
	1960 Aug 27 03:11	0°♃		direct	1961 Jul 08 19:36	1°♄20'57	
				morning max el	1961 Jul 19 09:12	6°♄14'36	20°21'11
superior conj	1960 Aug 30 23:33	7°♃33'52	1°43'43	asc. node	1961 Jul 30 00:49	20°♄38'51	
minimum elong	1960 Aug 31 00:52	7°♃40'16	1°43'40		1961 Aug 04 01:15	0°♂	
max. Earth dist.	1960 Sep 06 12:00	19°♃49'29	1.38331 AU	morning set	1961 Aug 06 22:35	5°♂48'17	
evening rise	1960 Sep 10 08:03	26°♃39'33					
	1960 Sep 12 06:29	0°♄		superior conj	1961 Aug 14 14:56	21°♂33'53	1°45'29
desc. node	1960 Sep 19 11:31	11°♄51'28		minimum elong	1961 Aug 14 14:33	21°♂31'54	1°45'29
	1960 Oct 01 17:17	0°♃			1961 Aug 18 20:52	0°♃	
evening max el	1960 Oct 15 22:26	17°♃14'51	24°50'53	max. Earth dist.	1961 Aug 19 17:56	1°♃42'00	1.36403 AU
retrograde	1960 Oct 27 14:02	24°♃01'29		evening rise	1961 Aug 23 17:47	9°♃12'49	
evening set	1960 Nov 02 04:11	21°♃41'37			1961 Sep 04 22:32	0°♄	
min. Earth dist.	1960 Nov 06 18:39	16°♃29'25	0.67392 AU	desc. node	1961 Sep 06 08:32	2°♄12'48	
inferior conj	1960 Nov 07 16:40	15°♃16'37	0°-8'-53		1961 Sep 27 12:16	0°♃	
minimum elong	1960 Nov 07 16:53	15°♃15'54	0°08'48	evening max el	1961 Sep 28 10:27	0°♃54'59	26°00'17
transit begin	1960 Nov 07 14:34	15°♃23'34		retrograde	1961 Oct 10 22:42	8°♃01'35	
transit end	1960 Nov 07 19:12	15°♃08'14		evening set	1961 Oct 17 03:04	5°♃28'06	
asc. node	1960 Nov 08 02:59	14°♃42'33		min. Earth dist.	1961 Oct 21 09:55	0°♃51'45	0.66688 AU
morning rise	1960 Nov 13 06:06	9°♃13'36			1961 Oct 22 02:29	30°♄	
direct	1960 Nov 16 19:27	8°♃00'45		inferior conj	1961 Oct 22 18:59	29°♄08'13	-1°-5'-57
morning max el	1960 Nov 24 07:37	12°♃17'21	19°53'01	minimum elong	1961 Oct 22 20:43	29°♄02'47	1°05'13
greatest brilliancy	1960 Dec 01 19:08	21°♃28'20	-0.6m	asc. node	1961 Oct 26 00:02	25°♄23'32	
	1960 Dec 07 17:30	0°♄		morning rise	1961 Oct 28 15:18	23°♄14'18	
desc. node	1960 Dec 16 10:48	13°♄10'20		direct	1961 Oct 31 18:01	22°♄18'41	
morning set	1960 Dec 20 08:32	19°♄10'46		morning max el	1961 Nov 07 15:21	26°♄09'03	18°57'38
	1960 Dec 27 07:21	0°♄			1961 Nov 10 23:53	0°♃	
max. Earth dist.	1960 Dec 31 23:17	7°♄22'25	1.44095 AU	morning set	1961 Nov 29 17:20	28°♃04'04	
					1961 Nov 30 22:54	0°♄	
superior conj	1961 Jan 05 23:06	15°♄23'55	-1°-51'-49	desc. node	1961 Dec 03 07:51	3°♄43'11	
minimum elong	1961 Jan 05 16:31	14°♄57'13	1°51'23	max. Earth dist.	1961 Dec 14 15:24	21°♄28'04	1.44973 AU
	1961 Jan 14 18:58	0°♃					
evening rise	1961 Jan 19 08:39	7°♃45'26		superior conj	1961 Dec 16 08:04	24°♄08'12	-1°-20'-5
	1961 Feb 01 21:39	0°♄		minimum elong	1961 Dec 15 23:20	23°♄33'46	1°19'09
asc. node	1961 Feb 04 02:17	2°♄57'41			1961 Dec 20 01:04	0°♄	
evening max el	1961 Feb 06 12:32	5°♄43'36	18°14'16	evening rise	1961 Dec 31 13:03	18°♄28'15	
retrograde	1961 Feb 12 23:32	9°♄10'35			1962 Jan 07 15:08	0°♃	
evening set	1961 Feb 15 20:07	8°♄27'48		evening max el	1962 Jan 21 00:13	19°♄07'57	18°39'25
inferior conj	1961 Feb 21 23:35	3°♄07'13	3°43'38	asc. node	1962 Jan 21 23:19	20°♄03'42	
minimum elong	1961 Feb 21 23:26	3°♄07'36	3°43'39	retrograde	1962 Jan 27 15:31	22°♄49'13	
min. Earth dist.	1961 Feb 24 13:09	0°♄18'57	0.63281 AU	evening set	1962 Jan 30 17:46	21°♄55'04	
	1961 Feb 24 20:22	30°♃		inferior conj	1962 Feb 05 13:19	16°♄16'07	3°35'06
morning rise	1961 Feb 28 00:50	27°♄03'02		minimum elong	1962 Feb 05 11:43	16°♄20'56	3°34'56
direct	1961 Mar 06 23:16	24°♄20'19		min. Earth dist.	1962 Feb 07 11:20	13°♄57'38	0.64976 AU
desc. node	1961 Mar 14 09:58	26°♄55'03		morning rise	1962 Feb 11 04:26	10°♄05'46	
	1961 Mar 18 10:16	0°♄		direct	1962 Feb 17 21:35	7°♄14'58	
morning max el	1961 Mar 20 20:05	2°♄16'11	27°43'57	desc. node	1962 Mar 01 07:02	13°♄10'34	
	1961 Apr 10 09:22	0°♄		morning max el	1962 Mar 03 05:31	15°♄02'09	27°07'38

	1962 Mar 15 11:43	0°♃		desc. node	1963 Feb 16 04:05	0°≈49'13	
	1962 Apr 03 02:32	0°♃			1963 Mar 09 05:26	0°♃	
morning set	1962 Apr 07 18:48	8°♃47'23		morning set	1963 Mar 21 18:58	21°♃41'38	
max. Earth dist.	1962 Apr 12 09:24	17°♃56'43	1.33926 AU	max. Earth dist.	1963 Mar 25 18:24	29°♃14'01	1.35394 AU
					1963 Mar 26 03:52	0°♃	
superior conj	1962 Apr 16 02:29	25°♃37'47	0°-39'-23				
minimum elong	1962 Apr 16 04:28	25°♃48'13	0°39'00	superior conj	1963 Mar 30 22:25	9°♃29'56	-1°-6'-59
	1962 Apr 18 04:10	0°♃		minimum elong	1963 Mar 31 01:46	9°♃46'55	1°06'25
asc. node	1962 Apr 19 22:36	3°♃45'17		asc. node	1963 Apr 06 19:38	23°♃40'45	
evening rise	1962 Apr 23 11:57	11°♃16'04		evening rise	1963 Apr 07 19:22	25°♃42'45	
	1962 May 03 06:05	0°♃			1963 Apr 09 22:03	0°♃	
evening max el	1962 May 13 21:54	14°♃16'31	21°45'42	evening max el	1963 Apr 26 02:11	25°♃21'41	20°23'45
retrograde	1962 May 26 09:09	20°♃23'49			1963 May 03 04:17	0°♃	
desc. node	1962 May 28 06:13	20°♃15'51		retrograde	1963 May 06 22:30	0°♃37'15	
evening set	1962 May 28 23:15	20°♃08'49		evening set	1963 May 09 00:03	0°♃26'37	
min. Earth dist.	1962 Jun 07 01:30	16°♃16'12	0.54969 AU		1963 May 10 20:39	30°♃	
inferior conj	1962 Jun 07 08:22	16°♃06'36	-2°-49'-23	desc. node	1963 May 15 03:14	28°♃10'02	
minimum elong	1962 Jun 07 01:04	16°♃16'48	2°47'07	inferior conj	1963 May 18 03:11	26°♃28'41	0°-52'-28
morning rise	1962 Jun 16 03:58	12°♃12'22		minimum elong	1963 May 18 00:42	26°♃32'17	0°51'34
direct	1962 Jun 19 07:45	11°♃50'26		min. Earth dist.	1963 May 19 14:12	25°♃37'37	0.55112 AU
morning max el	1962 Jul 01 11:57	17°♃34'01	21°49'03	morning rise	1963 May 26 23:32	22°♃15'08	
	1962 Jul 11 07:36	0°♃		direct	1963 May 30 18:51	21°♃43'52	
asc. node	1962 Jul 16 21:51	9°♃46'40		morning max el	1963 Jun 13 05:50	28°♃16'57	23°29'17
morning set	1962 Jul 22 07:53	20°♃36'40			1963 Jun 14 23:21	0°♃	
	1962 Jul 26 18:50	0°♃		asc. node	1963 Jul 03 18:53	29°♃19'05	
					1963 Jul 04 03:00	0°♃	
superior conj	1962 Jul 29 15:14	6°♃00'36	1°40'05	morning set	1963 Jul 06 19:17	5°♃32'06	
minimum elong	1962 Jul 29 13:37	5°♃52'11	1°39'59				
max. Earth dist.	1962 Aug 02 07:37	13°♃36'52	1.34781 AU	superior conj	1963 Jul 13 21:31	20°♃45'17	1°28'52
evening rise	1962 Aug 06 20:27	22°♃35'00		minimum elong	1963 Jul 13 19:15	20°♃33'06	1°28'37
	1962 Aug 10 19:29	0°♃		max. Earth dist.	1963 Jul 16 06:38	25°♃50'00	1.33546 AU
desc. node	1962 Aug 24 05:33	22°♃14'13			1963 Jul 18 06:19	0°♃	
	1962 Aug 29 15:48	0°♃		evening rise	1963 Jul 21 11:42	6°♃34'14	
evening max el	1962 Sep 10 22:51	14°♃30'36	26°53'11		1963 Aug 03 09:20	0°♃	
retrograde	1962 Sep 24 01:53	21°♃46'29		desc. node	1963 Aug 11 02:33	11°♃47'05	
evening set	1962 Sep 30 19:05	19°♃04'46		evening max el	1963 Aug 24 10:31	27°♃50'15	27°22'13
min. Earth dist.	1962 Oct 04 18:47	15°♃05'28	0.65636 AU		1963 Aug 26 20:33	0°♃	
inferior conj	1962 Oct 06 15:49	12°♃54'37	-2°-4'-22	retrograde	1963 Sep 06 23:09	5°♃08'16	
minimum elong	1962 Oct 06 19:08	12°♃44'57	2°03'05	evening set	1963 Sep 14 01:34	2°♃26'54	
morning rise	1962 Oct 12 20:39	7°♃13'04			1963 Sep 16 20:29	30°♃	
asc. node	1962 Oct 12 21:03	7°♃12'34		min. Earth dist.	1963 Sep 17 19:01	29°♃03'17	0.64227 AU
direct	1962 Oct 15 15:04	6°♃30'53		inferior conj	1963 Sep 20 04:47	26°♃30'38	-3°-1'-48
morning max el	1962 Oct 22 04:29	10°♃04'45	18°18'30	minimum elong	1963 Sep 20 09:30	26°♃18'10	3°00'14
	1962 Nov 05 02:20	0°♃		morning rise	1963 Sep 26 19:29	21°♃04'55	
morning set	1962 Nov 10 05:59	8°♃22'31		direct	1963 Sep 29 08:04	20°♃32'36	
desc. node	1962 Nov 20 04:52	24°♃24'18		asc. node	1963 Sep 29 18:05	20°♃33'30	
	1962 Nov 23 17:31	0°♃		morning max el	1963 Oct 05 20:23	23°♃58'41	17°56'26
					1963 Oct 10 16:44	0°♃	
superior conj	1962 Nov 25 09:36	2°♃38'12	0°-34'-19	morning set	1963 Oct 22 22:31	20°♃02'12	
minimum elong	1962 Nov 25 05:10	2°♃20'41	0°33'45		1963 Oct 28 19:54	0°♃	
max. Earth dist.	1962 Nov 27 10:37	5°♃51'04	1.45119 AU				
evening rise	1962 Dec 11 18:16	28°♃16'01		superior conj	1963 Nov 05 01:08	11°♃53'25	0°13'42
	1962 Dec 12 20:51	0°♃		minimum elong	1963 Nov 05 02:41	11°♃59'44	0°13'29
greatest brilliancy	1962 Dec 26 09:02	20°♃51'01	-0.7m	behind sun begin	1963 Nov 04 21:01	11°♃36'43	
	1963 Jan 02 01:10	0°≈		behind sun end	1963 Nov 05 08:22	12°♃22'42	
evening max el	1963 Jan 04 08:42	2°≈36'18	19°21'41	desc. node	1963 Nov 07 01:53	15°♃10'08	
asc. node	1963 Jan 08 20:20	6°≈04'01		max. Earth dist.	1963 Nov 10 05:16	20°♃11'10	1.44522 AU
retrograde	1963 Jan 11 11:47	6°≈42'04			1963 Nov 16 11:07	0°♃	
evening set	1963 Jan 14 20:54	5°≈35'16		evening rise	1963 Nov 21 06:17	7°♃25'43	
	1963 Jan 20 04:59	30°♃			1963 Dec 06 05:17	0°♃	
inferior conj	1963 Jan 20 11:07	29°♃40'12	3°13'12	greatest brilliancy	1963 Dec 12 04:02	8°♃24'11	-0.6m
minimum elong	1963 Jan 20 08:43	29°♃48'00	3°12'42	evening max el	1963 Dec 18 12:15	16°♃05'51	20°19'06
min. Earth dist.	1963 Jan 21 18:07	28°♃00'02	0.66272 AU	retrograde	1963 Dec 26 09:40	20°♃44'26	
morning rise	1963 Jan 25 19:45	23°♃26'26		asc. node	1963 Dec 26 17:21	20°♃43'52	
direct	1963 Feb 01 01:58	20°♃41'06		evening set	1963 Dec 30 03:15	19°♃23'34	
morning max el	1963 Feb 13 15:01	28°♃07'11	26°04'21	inferior conj	1964 Jan 04 14:17	13°♃15'19	2°41'05
	1963 Feb 15 10:08	0°≈		minimum elong	1964 Jan 04 11:39	13°♃24'13	2°40'19

min. Earth dist.	1964 Jan 05 07:49	12°☿15'59	0.67165 AU	min. Earth dist.	1964 Dec 19 02:12	26°♁39'20	0.67673 AU
morning rise	1964 Jan 09 19:33	7°☿00'02		morning rise	1964 Dec 24 01:13	20°♁43'54	
direct	1964 Jan 15 11:42	4°☿29'53		direct	1964 Dec 29 02:15	18°♁34'28	
morning max el	1964 Jan 26 23:37	11°☿21'23	24°43'25	morning max el	1965 Jan 08 08:43	24°♁40'52	23°15'08
desc. node	1964 Feb 03 01:07	19°☿26'44			1965 Jan 13 03:12	0°☿	
	1964 Feb 10 21:30	0°♁		greatest brilliancy	1965 Jan 13 12:29	0°☿28'06	-0.2m
	1964 Feb 29 22:50	0°♁		desc. node	1965 Jan 19 22:09	8°☿46'24	
morning set	1964 Mar 03 00:29	3°♁36'52			1965 Feb 03 09:02	0°♁	
max. Earth dist.	1964 Mar 06 17:14	10°♁16'00	1.37274 AU	morning set	1965 Feb 12 05:13	14°♁17'38	
				max. Earth dist.	1965 Feb 16 12:02	21°♁36'14	1.39402 AU
superior conj	1964 Mar 13 07:57	22°♁46'26	-1°-32'-22		1965 Feb 21 05:40	0°♁	
minimum elong	1964 Mar 13 12:10	23°♁06'59	1°31'50	superior conj	1965 Feb 24 03:07	5°♁18'00	-1°-52'-40
	1964 Mar 16 23:54	0°♁		minimum elong	1965 Feb 24 07:01	5°♁36'05	1°52'23
evening rise	1964 Mar 21 21:14	9°♁46'55		evening rise	1965 Mar 05 14:49	23°♁21'46	
asc. node	1964 Mar 23 16:40	13°♁22'09			1965 Mar 09 02:19	0°♁	
	1964 Apr 02 00:57	0°♁		asc. node	1965 Mar 10 13:42	2°♁44'31	
evening max el	1964 Apr 07 18:03	7°♁05'31	19°19'54	evening max el	1965 Mar 21 19:51	19°♁26'28	18°36'03
retrograde	1964 Apr 16 21:50	11°♁31'18		retrograde	1965 Mar 29 14:52	23°♁15'20	
evening set	1964 Apr 18 23:39	11°♁18'37		evening set	1965 Mar 31 21:58	22°♁56'37	
inferior conj	1964 Apr 27 10:10	7°♁10'16	1°01'05	inferior conj	1965 Apr 08 13:26	18°♁29'49	2°26'22
minimum elong	1964 Apr 27 12:37	7°♁06'14	1°00'14	minimum elong	1965 Apr 08 17:27	18°♁22'03	2°25'17
min. Earth dist.	1964 Apr 30 04:56	5°♁20'33	0.56175 AU	min. Earth dist.	1965 Apr 11 22:58	15°♁53'48	0.57939 AU
desc. node	1964 May 01 00:16	4°♁50'13		morning rise	1965 Apr 16 08:36	13°♁10'07	
morning rise	1964 May 05 21:36	2°♁23'22		desc. node	1965 Apr 17 21:19	12°♁31'30	
direct	1964 May 10 16:08	1°♁31'13		direct	1965 Apr 22 04:00	11°♁45'00	
morning max el	1964 May 24 20:17	8°♁43'39	25°09'42	morning max el	1965 May 06 13:04	19°♁22'06	26°34'31
	1964 Jun 09 15:45	0°♁			1965 May 15 13:19	0°♁	
asc. node	1964 Jun 19 15:55	19°♁08'25			1965 Jun 02 03:47	0°♁	
morning set	1964 Jun 20 07:07	20°♁28'16		morning set	1965 Jun 04 17:45	5°♁19'44	
	1964 Jun 24 17:17	0°♁		asc. node	1965 Jun 06 12:59	9°♁09'12	
superior conj	1964 Jun 27 07:25	5°♁39'36	1°12'54	superior conj	1965 Jun 11 19:02	20°♁37'02	0°52'58
minimum elong	1964 Jun 27 05:01	5°♁26'31	1°12'32	minimum elong	1965 Jun 11 16:59	20°♁25'44	0°52'35
max. Earth dist.	1964 Jun 28 13:12	8°♁21'59	1.32706 AU	max. Earth dist.	1965 Jun 12 00:21	21°♁06'17	1.32260 AU
evening rise	1964 Jul 04 11:52	20°♁59'04			1965 Jun 16 02:04	0°♁	
	1964 Jul 09 00:38	0°♁		evening rise	1965 Jun 18 18:07	5°♁40'41	
	1964 Jul 27 11:35	0°♁			1965 Jul 01 15:55	0°♁	
desc. node	1964 Jul 27 23:33	0°♁39'20		desc. node	1965 Jul 14 20:35	18°♁33'47	
evening max el	1964 Aug 05 19:22	10°♁41'07	27°21'36	evening max el	1965 Jul 18 23:02	22°♁51'41	26°48'00
retrograde	1964 Aug 19 14:14	17°♁57'45			1965 Jul 31 11:24	0°♁	
evening set	1964 Aug 26 19:02	15°♁28'45		retrograde	1965 Aug 01 21:56	0°♁05'17	
min. Earth dist.	1964 Aug 30 09:07	12°♁34'35	0.62476 AU		1965 Aug 03 08:09	30°♁	
inferior conj	1964 Sep 02 07:02	9°♁49'42	-3°-54'-31	evening set	1965 Aug 08 19:01	28°♁02'31	
minimum elong	1964 Sep 02 12:23	9°♁37'03	3°53'09	min. Earth dist.	1965 Aug 12 13:00	25°♁24'59	0.60478 AU
morning rise	1964 Sep 09 08:25	4°♁43'09		inferior conj	1965 Aug 15 19:11	22°♁43'11	-4°-36'-23
direct	1964 Sep 11 17:48	4°♁17'28		minimum elong	1965 Aug 15 23:34	22°♁34'03	4°35'43
asc. node	1964 Sep 15 15:08	5°♁27'14		morning rise	1965 Aug 23 07:21	17°♁58'25	
morning max el	1964 Sep 18 12:10	7°♁44'18	17°52'19	direct	1965 Aug 25 16:24	17°♁36'44	
	1964 Oct 03 00:12	0°♁		morning max el	1965 Sep 02 00:40	21°♁13'09	18°07'14
morning set	1964 Oct 04 13:11	2°♁45'19		asc. node	1965 Sep 02 12:13	21°♁41'53	
					1965 Sep 08 17:14	0°♁	
superior conj	1964 Oct 15 18:44	22°♁26'22	0°53'51	morning set	1965 Sep 17 19:59	16°♁14'36	
minimum elong	1964 Oct 15 23:09	22°♁45'05	0°53'17		1965 Sep 25 05:49	0°♁	
	1964 Oct 20 07:11	0°♁		superior conj	1965 Sep 27 14:27	4°♁15'49	1°22'09
max. Earth dist.	1964 Oct 22 20:07	4°♁09'13	1.43268 AU	minimum elong	1965 Sep 27 18:35	4°♁34'18	1°21'44
desc. node	1964 Oct 23 22:53	5°♁57'34		max. Earth dist.	1965 Oct 05 05:36	17°♁30'42	1.41525 AU
evening rise	1964 Oct 30 15:33	16°♁33'42		evening rise	1965 Oct 10 14:41	26°♁21'58	
	1964 Nov 08 11:02	0°♁		desc. node	1965 Oct 10 19:54	26°♁42'57	
greatest brilliancy	1964 Nov 25 10:41	23°♁53'03	-0.4m		1965 Oct 12 21:15	0°♁	
evening max el	1964 Nov 30 10:11	29°♁36'31	21°28'49		1965 Nov 02 06:04	0°♁	
	1964 Nov 30 19:30	0°☿		greatest brilliancy	1965 Nov 08 02:28	7°♁31'17	-0.3m
retrograde	1964 Dec 09 07:05	4°☿53'05		evening max el	1965 Nov 13 03:02	13°♁08'57	22°46'34
asc. node	1964 Dec 12 14:23	3°☿52'44		retrograde	1965 Nov 23 02:15	19°♁04'07	
evening set	1964 Dec 13 10:59	3°☿16'41		evening set	1965 Nov 27 18:22	17°♁10'56	
	1964 Dec 16 14:31	30°♁		asc. node	1965 Nov 29 11:27	15°♁31'58	
inferior conj	1964 Dec 18 20:36	26°♁58'43	2°00'57				
minimum elong	1964 Dec 18 18:15	27°♁06'50	2°00'08				

inferior conj	1965 Dec 03 04:05	10°♄47'08	1°14'22			1966 Nov 13 03:26	30°♍	
minimum elong	1965 Dec 03 02:27	10°♄52'46	1°13'44		asc. node	1966 Nov 16 08:30	26°♍07'58	
min. Earth dist.	1965 Dec 02 22:47	11°♄05'27	0.67831 AU		min. Earth dist.	1966 Nov 16 19:08	25°♍32'21	0.67656 AU
morning rise	1965 Dec 08 10:28	4°♄34'58			inferior conj	1966 Nov 17 10:58	24°♍38'50	0°22'42
direct	1965 Dec 12 20:40	2°♄48'19			minimum elong	1966 Nov 17 10:25	24°♍40'40	0°22'29
morning max el	1965 Dec 21 21:34	8°♄06'38	21°48'50		morning rise	1966 Nov 22 21:16	18°♍31'46	
greatest brilliancy	1965 Dec 26 16:46	13°♄32'02	-0.4m		direct	1966 Nov 26 17:49	17°♍07'10	
desc. node	1966 Jan 06 19:11	28°♄35'44			morning max el	1966 Dec 04 17:22	21°♍43'00	20°31'32
	1966 Jan 07 18:26	0°♄			greatest brilliancy	1966 Dec 10 21:41	29°♍01'12	-0.5m
morning set	1966 Jan 23 04:45	23°♄34'03				1966 Dec 11 15:27	0°♄	
	1966 Jan 27 04:10	0°♄			desc. node	1966 Dec 24 16:12	18°♄46'38	
max. Earth dist.	1966 Jan 29 10:31	3°♄44'25	1.41511 AU			1967 Jan 01 00:52	0°♄	
					morning set	1967 Jan 02 05:01	1°♄48'56	
superior conj	1966 Feb 06 02:54	16°♄52'07	-2°-3'-59		max. Earth dist.	1967 Jan 11 17:04	16°♄50'00	1.43309 AU
minimum elong	1966 Feb 06 04:21	16°♄58'29	2°03'59					
	1966 Feb 13 10:17	0°♄			superior conj	1967 Jan 18 02:11	27°♄17'17	-2°-1'-25
evening rise	1966 Feb 16 20:33	6°♄18'39			minimum elong	1967 Jan 17 22:43	27°♄02'50	2°01'18
asc. node	1966 Feb 25 10:45	21°♄41'02				1967 Jan 19 17:05	0°♄	
	1966 Mar 03 02:57	0°♄			evening rise	1967 Jan 30 10:22	18°♄29'09	
evening max el	1966 Mar 05 04:22	2°♄16'02	18°12'17			1967 Feb 06 00:38	0°♄	
retrograde	1966 Mar 12 02:18	5°♄44'32			asc. node	1967 Feb 12 07:49	10°♄03'20	
evening set	1966 Mar 14 15:02	5°♄17'21			evening max el	1967 Feb 16 16:20	15°♄24'44	18°08'04
inferior conj	1966 Mar 21 13:38	0°♄29'10	3°17'52		retrograde	1967 Feb 23 04:26	18°♄48'25	
minimum elong	1966 Mar 21 16:33	0°♄22'35	3°17'24		evening set	1967 Feb 25 22:13	18°♄11'27	
	1966 Mar 22 02:34	30°♄			inferior conj	1967 Mar 04 07:36	13°♄02'01	3°40'43
min. Earth dist.	1966 Mar 24 22:16	27°♄29'34	0.60047 AU		minimum elong	1967 Mar 04 08:33	12°♄59'36	3°40'40
morning rise	1966 Mar 28 14:38	24°♄45'47			min. Earth dist.	1967 Mar 07 05:24	10°♄03'49	0.62163 AU
direct	1966 Apr 04 04:24	22°♄44'13			morning rise	1967 Mar 10 16:29	7°♄03'40	
desc. node	1966 Apr 04 18:22	22°♄45'09			direct	1967 Mar 17 14:27	4°♄32'36	
	1966 Apr 17 21:31	0°♄			desc. node	1967 Mar 22 15:25	5°♄43'34	
morning max el	1966 Apr 18 11:31	0°♄33'58	27°30'18		morning max el	1967 Mar 31 16:03	12°♄27'35	27°49'43
	1966 May 09 14:48	0°♄				1967 Apr 14 14:38	0°♄	
morning set	1966 May 20 01:29	20°♄00'52				1967 May 01 23:26	0°♄	
asc. node	1966 May 24 10:03	29°♄16'52			morning set	1967 May 04 04:12	4°♄24'13	
	1966 May 24 17:59	0°♄			max. Earth dist.	1967 May 09 21:44	16°♄26'01	1.32540 AU
max. Earth dist.	1966 May 26 12:29	3°♄52'11	1.32202 AU					
					superior conj	1967 May 11 16:25	20°♄17'09	0°04'07
superior conj	1966 May 27 06:38	5°♄31'49	0°29'49		minimum elong	1967 May 11 16:13	20°♄16'06	0°04'04
minimum elong	1966 May 27 05:20	5°♄24'41	0°29'32		behind sun begin	1967 May 11 11:13	19°♄48'54	
evening rise	1966 Jun 03 04:08	20°♄31'35			behind sun end	1967 May 11 21:14	20°♄43'19	
	1966 Jun 07 19:11	0°♄			asc. node	1967 May 11 07:05	19°♄26'25	
	1966 Jun 26 19:05	0°♄				1967 May 16 03:27	0°♄	
evening max el	1966 Jun 30 19:51	4°♄16'16	25°42'58		evening rise	1967 May 18 15:50	5°♄23'56	
desc. node	1966 Jul 01 17:37	5°♄06'51				1967 May 31 18:02	0°♄	
retrograde	1966 Jul 14 20:14	11°♄25'19			evening max el	1967 Jun 12 10:38	15°♄00'15	24°15'01
evening set	1966 Jul 20 20:52	9°♄59'21			desc. node	1967 Jun 18 14:40	19°♄45'41	
min. Earth dist.	1966 Jul 25 08:09	7°♄20'54	0.58421 AU		retrograde	1967 Jun 26 06:51	21°♄58'58	
inferior conj	1966 Jul 28 13:43	5°♄01'43	-4°-57'-32		evening set	1967 Jun 30 23:09	21°♄10'16	
minimum elong	1966 Jul 28 14:41	4°♄59'57	4°57'32		min. Earth dist.	1967 Jul 06 21:29	18°♄13'40	0.56589 AU
morning rise	1966 Aug 05 12:04	0°♄39'55			inferior conj	1967 Jul 09 12:03	16°♄35'46	-4°-44'-20
direct	1966 Aug 07 23:42	0°♄20'11			minimum elong	1967 Jul 09 07:41	16°♄42'38	4°43'52
morning max el	1966 Aug 16 06:41	4°♄16'27	18°42'30		morning rise	1967 Jul 17 19:50	12°♄34'23	
asc. node	1966 Aug 20 09:16	9°♄02'22			direct	1967 Jul 20 12:01	12°♄15'21	
	1966 Sep 01 10:35	0°♄			morning max el	1967 Jul 30 03:12	16°♄43'46	19°39'09
morning set	1966 Sep 01 14:12	0°♄17'34			asc. node	1967 Aug 07 06:19	27°♄13'25	
						1967 Aug 08 22:09	0°♄	
superior conj	1966 Sep 10 07:22	17°♄08'19	1°38'47		morning set	1967 Aug 16 16:13	14°♄43'29	
minimum elong	1966 Sep 10 09:48	17°♄19'47	1°38'37			1967 Aug 24 06:17	0°♄	
	1966 Sep 17 08:19	0°♄						
max. Earth dist.	1966 Sep 17 10:46	0°♄10'48	1.39516 AU		superior conj	1967 Aug 24 15:51	0°♄47'20	1°45'26
evening rise	1966 Sep 21 12:59	7°♄15'05			minimum elong	1967 Aug 24 16:24	0°♄50'02	1°45'26
desc. node	1966 Sep 27 16:56	17°♄22'59			max. Earth dist.	1967 Aug 30 15:02	12°♄15'27	1.37485 AU
	1966 Oct 05 22:03	0°♄			evening rise	1967 Sep 03 10:42	19°♄13'32	
evening max el	1966 Oct 26 16:31	26°♄45'21	24°06'30			1967 Sep 09 16:53	0°♄	
	1966 Oct 30 07:38	0°♄			desc. node	1967 Sep 14 13:58	7°♄52'39	
retrograde	1966 Nov 06 17:55	3°♄14'46				1967 Sep 30 01:46	0°♄	
evening set	1966 Nov 11 23:50	1°♄04'25			evening max el	1967 Oct 09 04:33	10°♄24'41	25°21'54

retrograde	1967 Oct 21 05:16	17°♄20'29			1968 Sep 01 16:59	0°♄	
evening set	1967 Oct 27 01:39	14°♄54'14		evening max el	1968 Sep 20 16:29	24°♄02'56	26°25'13
min. Earth dist.	1967 Oct 31 12:48	9°♄57'21	0.67141 AU		1968 Sep 28 14:40	0°♄	
inferior conj	1967 Nov 01 15:28	8°♄31'05	0°-32'-46	retrograde	1968 Oct 03 11:40	1°♄15'07	
minimum elong	1967 Nov 01 16:18	8°♄28'22	0°32'26		1968 Oct 07 22:46	30°♄	
asc. node	1967 Nov 03 05:32	6°♄30'23		evening set	1968 Oct 09 21:54	28°♄36'55	
morning rise	1967 Nov 07 07:38	2°♄31'49		min. Earth dist.	1968 Oct 14 01:31	24°♄16'35	0.66280 AU
direct	1967 Nov 10 16:16	1°♄26'41		inferior conj	1968 Oct 15 15:40	22°♄20'36	-1°-30'-41
morning max el	1967 Nov 17 21:07	5°♄30'24	19°27'34	minimum elong	1968 Oct 15 18:05	22°♄13'16	1°29'43
greatest brilliancy	1967 Nov 26 18:03	16°♄47'26	-0.7m	asc. node	1968 Oct 20 02:33	17°♄35'12	
	1967 Dec 05 13:41	0°♄		morning rise	1968 Oct 21 15:27	16°♄31'52	
desc. node	1967 Dec 11 13:15	9°♄13'08		direct	1968 Oct 24 14:17	15°♄42'34	
morning set	1967 Dec 12 03:40	10°♄08'58		morning max el	1968 Oct 31 07:30	19°♄24'48	18°39'01
	1967 Dec 24 20:33	0°♄			1968 Nov 08 11:00	0°♄	
max. Earth dist.	1967 Dec 25 06:51	0°♄40'45	1.44558 AU	morning set	1968 Nov 20 23:29	19°♄36'42	
				desc. node	1968 Nov 27 10:16	29°♄50'05	
superior conj	1967 Dec 28 23:18	6°♄32'23	-1°-40'-35		1968 Nov 27 12:47	0°♄	
minimum elong	1967 Dec 28 15:03	5°♄59'26	1°39'53	superior conj	1968 Dec 07 02:31	15°♄03'30	-1°-1'-46
evening rise	1968 Jan 12 04:01	29°♄46'14		minimum elong	1968 Dec 06 18:57	14°♄33'47	1°00'52
	1968 Jan 12 07:19	0°♄		max. Earth dist.	1968 Dec 07 00:34	14°♄55'51	1.45120 AU
asc. node	1968 Jan 30 04:51	27°♄41'13			1968 Dec 16 14:11	0°♄	
evening max el	1968 Jan 31 04:49	28°♄45'17	18°22'43	evening rise	1968 Dec 22 22:25	10°♄05'14	
	1968 Feb 01 12:57	0°♄			1969 Jan 04 12:18	0°♄	
retrograde	1968 Feb 06 16:40	2°♄17'09		evening max el	1969 Jan 13 15:18	12°♄11'37	18°55'20
evening set	1968 Feb 09 15:34	1°♄29'36		asc. node	1969 Jan 16 01:52	14°♄21'20	
	1968 Feb 11 18:54	30°♄		retrograde	1969 Jan 20 10:56	16°♄02'38	
inferior conj	1968 Feb 15 15:16	26°♄00'38	3°41'56	evening set	1969 Jan 23 15:50	15°♄03'24	
minimum elong	1968 Feb 15 14:25	26°♄03'02	3°41'53	inferior conj	1969 Jan 29 08:49	9°♄17'10	3°27'14
min. Earth dist.	1968 Feb 17 22:08	23°♄23'48	0.64046 AU	minimum elong	1969 Jan 29 06:48	9°♄23'28	3°26'56
morning rise	1968 Feb 21 11:44	19°♄53'18		min. Earth dist.	1969 Jan 31 00:18	7°♄14'13	0.65574 AU
direct	1968 Feb 28 08:36	17°♄05'44		morning rise	1969 Feb 03 20:44	3°♄04'48	
desc. node	1968 Mar 08 12:26	20°♄58'00		direct	1969 Feb 10 09:38	0°♄14'50	
morning max el	1968 Mar 13 00:48	24°♄59'04	27°32'26	morning max el	1969 Feb 23 10:41	7°♄55'34	26°43'28
	1968 Mar 17 14:45	0°♄		desc. node	1969 Feb 23 09:28	7°♄52'31	
	1968 Apr 07 01:01	0°♄			1969 Mar 12 15:19	0°♄	
morning set	1968 Apr 16 23:26	18°♄21'58			1969 Mar 30 09:59	0°♄	
max. Earth dist.	1968 Apr 22 00:03	28°♄34'54	1.33294 AU	morning set	1969 Mar 31 07:48	1°♄43'08	
	1968 Apr 22 16:18	0°♄		max. Earth dist.	1969 Apr 04 15:40	10°♄09'16	1.34495 AU
superior conj	1968 Apr 24 22:36	4°♄47'24	0°-23'-17	superior conj	1969 Apr 08 23:00	18°♄55'22	0°-51'-15
minimum elong	1968 Apr 24 23:46	4°♄53'35	0°23'03	minimum elong	1969 Apr 09 01:36	19°♄08'48	0°50'45
asc. node	1968 Apr 27 04:08	9°♄34'04			1969 Apr 14 05:55	0°♄	
evening rise	1968 May 02 03:23	20°♄11'26		asc. node	1969 Apr 14 01:10	29°♄35'04	
	1968 May 06 22:56	0°♄		evening rise	1969 Apr 16 12:52	4°♄47'11	
evening max el	1968 May 24 01:06	25°♄28'55	22°38'47		1969 Apr 30 15:18	0°♄	
	1968 May 29 22:44	0°♄		evening max el	1969 May 05 22:57	6°♄14'24	21°08'49
desc. node	1968 Jun 04 11:40	1°♄54'41		retrograde	1969 May 17 19:06	12°♄00'55	
retrograde	1968 Jun 06 05:16	2°♄01'33		evening set	1969 May 20 01:26	11°♄48'59	
evening set	1968 Jun 09 10:33	1°♄38'44		desc. node	1969 May 22 08:40	11°♄14'09	
	1968 Jun 13 22:32	30°♄		inferior conj	1969 May 29 09:50	7°♄50'34	-2°-1'-36
min. Earth dist.	1968 Jun 17 09:00	28°♄10'16	0.55322 AU	minimum elong	1969 May 29 04:12	7°♄58'31	1°59'39
inferior conj	1968 Jun 18 15:48	27°♄26'18	-3°-44'-39	min. Earth dist.	1969 May 29 21:20	7°♄34'21	0.54907 AU
minimum elong	1968 Jun 18 07:57	27°♄37'32	3°42'41	morning rise	1969 Jun 07 06:45	3°♄50'07	
morning rise	1968 Jun 27 07:58	23°♄34'46		direct	1969 Jun 10 15:48	3°♄25'27	
direct	1968 Jun 30 06:09	23°♄15'04		morning max el	1969 Jun 23 11:05	9°♄31'27	22°30'50
morning max el	1968 Jul 11 12:29	28°♄28'41	20°56'35		1969 Jul 08 03:58	0°♄	
	1968 Jul 13 01:30	0°♄		asc. node	1969 Jul 11 00:23	5°♄22'37	
asc. node	1968 Jul 24 03:21	16°♄03'20		morning set	1969 Jul 15 09:49	14°♄17'15	
morning set	1968 Jul 30 23:26	29°♄25'16					
	1968 Jul 31 06:11	0°♄		superior conj	1969 Jul 22 14:34	29°♄35'35	1°35'58
superior conj	1968 Aug 07 11:25	14°♄59'54	1°43'59	minimum elong	1969 Jul 22 12:37	29°♄25'13	1°35'49
minimum elong	1968 Aug 07 10:26	14°♄54'53	1°43'57		1969 Jul 22 19:11	0°♄	
max. Earth dist.	1968 Aug 11 23:39	24°♄05'24	1.35665 AU	max. Earth dist.	1969 Jul 25 16:57	6°♄05'29	1.34199 AU
	1968 Aug 15 00:53	0°♄		evening rise	1969 Jul 30 12:37	15°♄48'08	
evening rise	1968 Aug 16 04:07	2°♄08'32			1969 Aug 07 04:21	0°♄	
desc. node	1968 Aug 31 11:00	28°♄06'24		desc. node	1969 Aug 18 08:00	17°♄57'08	

	1969 Aug 27 06:50	0°♁		superior conj	1970 Jul 06 22:39	14°♁25'21	1°22'38
evening max el	1969 Sep 03 04:38	7°♁33'08	27°08'55	minimum elong	1970 Jul 06 20:16	14°♁12'26	1°22'19
retrograde	1969 Sep 16 12:41	14°♁51'35		max. Earth dist.	1970 Jul 08 19:28	18°♁27'03	1.33139 AU
evening set	1969 Sep 23 10:17	12°♁08'40		evening rise	1970 Jul 14 08:05	29°♁59'54	
min. Earth dist.	1969 Sep 27 07:02	8°♁24'53	0.65069 AU		1970 Jul 14 08:06	0°♁	
inferior conj	1969 Sep 29 09:29	6°♁03'39	-2°-29'-4		1970 Jul 31 05:21	0°♁	
minimum elong	1969 Sep 29 13:27	5°♁52'32	2°27'38	desc. node	1970 Aug 05 05:00	7°♁14'37	
morning rise	1969 Oct 05 18:23	0°♁28'28		evening max el	1970 Aug 16 15:35	20°♁43'00	27°26'01
asc. node	1969 Oct 06 23:35	0°♁02'03		retrograde	1970 Aug 30 07:28	28°♁00'36	
	1969 Oct 07 02:57	30°♁		evening set	1970 Sep 06 11:42	25°♁23'13	
direct	1969 Oct 08 09:53	29°♁51'03		min. Earth dist.	1970 Sep 10 03:18	22°♁12'55	0.63514 AU
	1969 Oct 09 16:56	0°♁		inferior conj	1970 Sep 12 18:18	19°♁33'48	-3°-25'-5
morning max el	1969 Oct 14 22:11	3°♁21'00	18°07'01	minimum elong	1970 Sep 12 23:25	19°♁20'51	3°23'32
	1969 Nov 01 16:53	0°♁		morning rise	1970 Sep 19 13:27	14°♁15'30	
morning set	1969 Nov 02 00:33	0°♁31'44		direct	1970 Sep 22 00:17	13°♁46'23	
desc. node	1969 Nov 14 07:18	20°♁33'57		asc. node	1970 Sep 23 20:38	14°♁03'14	
				morning max el	1970 Sep 28 14:22	17°♁12'04	17°52'25
superior conj	1969 Nov 16 07:47	23°♁47'18	0°-13'-32		1970 Oct 07 18:04	0°♁	
minimum elong	1969 Nov 16 06:04	23°♁40'30	0°13'19	morning set	1970 Oct 15 03:18	12°♁40'55	
behind sun begin	1969 Nov 15 23:50	23°♁15'42			1970 Oct 25 06:16	0°♁	
behind sun end	1969 Nov 16 12:19	24°♁05'18		superior conj	1970 Oct 27 09:40	3°♁33'24	0°32'04
max. Earth dist.	1969 Nov 19 19:24	29°♁18'15	1.44945 AU	minimum elong	1970 Oct 27 12:54	3°♁46'46	0°31'37
	1969 Nov 20 06:00	0°♁		desc. node	1970 Nov 01 04:19	11°♁20'50	
evening rise	1969 Dec 02 19:04	19°♁33'34		max. Earth dist.	1970 Nov 02 12:41	13°♁30'46	1.44063 AU
	1969 Dec 09 13:21	0°♁		evening rise	1970 Nov 12 03:45	28°♁37'10	
greatest brilliancy	1969 Dec 20 07:11	16°♁04'42	-0.6m		1970 Nov 13 01:16	0°♁	
evening max el	1969 Dec 27 21:53	25°♁41'12	19°44'23		1970 Dec 03 10:14	0°♁	
asc. node	1970 Jan 02 22:53	29°♁49'31		greatest brilliancy	1970 Dec 05 08:13	2°♁32'46	-0.5m
	1970 Jan 04 04:22	0°♁		evening max el	1970 Dec 10 23:13	9°♁11'47	20°47'33
retrograde	1970 Jan 04 08:10	0°♁00'09		retrograde	1970 Dec 19 05:59	14°♁05'39	
	1970 Jan 04 04:21	0°♁		asc. node	1970 Dec 20 19:55	13°♁51'42	
evening set	1970 Jan 07 20:35	28°♁47'46		evening set	1970 Dec 23 03:46	12°♁38'22	
inferior conj	1970 Jan 13 09:15	22°♁46'55	3°00'40	inferior conj	1970 Dec 28 14:01	6°♁25'50	2°24'56
minimum elong	1970 Jan 13 06:40	22°♁55'25	3°00'03	minimum elong	1970 Dec 28 11:27	6°♁34'37	2°24'07
min. Earth dist.	1970 Jan 14 10:25	21°♁23'42	0.66703 AU	min. Earth dist.	1970 Dec 29 02:21	5°♁43'35	0.67429 AU
morning rise	1970 Jan 18 16:04	16°♁32'07		morning rise	1971 Jan 02 18:42	0°♁10'41	
direct	1970 Jan 24 16:38	13°♁51'58			1971 Jan 02 23:36	30°♁	
morning max el	1970 Feb 05 19:41	21°♁05'23	25°31'20	direct	1971 Jan 08 04:36	27°♁48'40	
desc. node	1970 Feb 10 06:31	25°♁58'53			1971 Jan 14 02:16	0°♁	
	1970 Feb 13 13:08	0°♁		morning max el	1971 Jan 19 04:01	4°♁21'21	24°06'11
morning set	1970 Mar 05 20:10	0°♁		desc. node	1971 Jan 28 03:34	14°♁56'08	
max. Earth dist.	1970 Mar 14 00:46	14°♁14'39			1971 Feb 07 20:51	0°♁	
	1970 Mar 17 19:28	21°♁15'07	1.36151 AU	morning set	1971 Feb 23 20:34	25°♁40'36	
	1970 Mar 22 07:59	0°♁			1971 Feb 26 07:57	0°♁	
superior conj	1970 Mar 23 14:58	2°♁33'51	-1°-18'-11	max. Earth dist.	1971 Feb 27 15:37	2°♁20'50	1.38165 AU
minimum elong	1970 Mar 23 18:47	2°♁52'52	1°17'36	superior conj	1971 Mar 06 19:03	15°♁33'42	-1°-41'-47
evening rise	1970 Mar 31 18:13	19°♁05'06		minimum elong	1971 Mar 06 23:20	15°♁54'09	1°41'21
asc. node	1970 Mar 31 22:12	19°♁25'15			1971 Mar 14 04:46	0°♁	
	1970 Apr 06 07:40	0°♁		evening rise	1971 Mar 15 17:00	2°♁58'32	
evening max el	1970 Apr 18 08:22	17°♁36'29	19°54'11	asc. node	1971 Mar 18 19:15	8°♁59'49	
retrograde	1970 Apr 28 10:51	22°♁29'13		evening max el	1971 Apr 01 04:57	29°♁38'09	18°58'46
evening set	1970 Apr 30 11:26	22°♁18'21			1971 Apr 01 14:11	0°♁	
inferior conj	1970 May 09 08:21	18°♁17'56	0°-1'-55	retrograde	1971 Apr 09 17:11	3°♁45'56	
minimum elong	1970 May 09 08:16	18°♁18'04	0°01'54	evening set	1971 Apr 11 21:14	3°♁30'56	
transit begin	1970 May 09 04:19	18°♁24'05			1971 Apr 18 21:52	30°♁	
transit end	1970 May 09 12:13	18°♁12'02		inferior conj	1971 Apr 19 23:34	29°♁15'14	1°41'22
desc. node	1970 May 09 05:42	18°♁21'59		minimum elong	1971 Apr 20 03:07	29°♁08'59	1°40'15
min. Earth dist.	1970 May 11 11:01	17°♁00'50	0.55463 AU	min. Earth dist.	1971 Apr 23 02:45	27°♁03'52	0.56864 AU
morning rise	1970 May 18 02:04	13°♁50'53		desc. node	1971 Apr 26 02:45	25°♁13'27	
direct	1970 May 22 06:47	13°♁12'04		morning rise	1971 Apr 28 04:45	24°♁14'04	
morning max el	1970 Jun 05 02:39	20°♁04'09	24°12'51	direct	1971 May 03 10:25	23°♁09'02	
	1970 Jun 13 12:46	0°♁			1971 May 17 03:32	0°♁	
asc. node	1970 Jun 27 21:26	25°♁03'06		morning max el	1971 May 17 17:21	0°♁32'47	25°48'32
morning set	1970 Jun 29 21:35	29°♁13'36			1971 Jun 07 06:45	0°♁	
	1970 Jun 30 06:22	0°♁		morning set	1971 Jun 14 09:10	14°♁09'12	

asc. node	1971 Jun 14 18:30	14°♊58'34		morning set	1972 May 28 18:49	28°♄57'20	
					1972 May 29 06:46	0°♊	
superior conj	1971 Jun 21 09:32	29°♊22'20	1°04'54	asc. node	1972 May 31 15:34	5°♊02'56	
minimum elong	1971 Jun 21 07:14	29°♊09'40	1°04'30				
	1971 Jun 21 16:25	0°♄		superior conj	1972 Jun 04 21:21	14°♊19'18	0°43'31
max. Earth dist.	1971 Jun 22 04:41	1°♄07'17	1.32476 AU	minimum elong	1972 Jun 04 19:35	14°♊09'30	0°43'09
evening rise	1971 Jun 28 11:14	14°♄33'48		max. Earth dist.	1972 Jun 04 16:54	13°♊54'44	1.32193 AU
	1971 Jul 06 08:53	0°♄		evening rise	1972 Jun 11 19:22	29°♊20'13	
desc. node	1971 Jul 23 02:02	25°♄44'58			1972 Jun 12 02:56	0°♄	
	1971 Jul 26 17:03	0°♄			1972 Jun 28 16:52	0°♄	
evening max el	1971 Jul 29 22:45	3°♄18'54	27°11'21	desc. node	1972 Jul 08 23:04	13°♄08'08	
retrograde	1971 Aug 12 19:13	10°♄33'18		evening max el	1972 Jul 10 23:28	15°♄09'27	26°23'40
evening set	1971 Aug 19 22:17	8°♄14'04		retrograde	1972 Jul 24 23:02	22°♄21'21	
min. Earth dist.	1971 Aug 23 12:58	5°♄28'50	0.61656 AU	evening set	1972 Jul 31 13:20	20°♄33'01	
inferior conj	1971 Aug 26 15:01	2°♄43'25	-4°-14'-6	min. Earth dist.	1972 Aug 04 12:31	17°♄57'43	0.59603 AU
minimum elong	1971 Aug 26 20:13	2°♄31'46	4°12'59	inferior conj	1972 Aug 07 20:03	15°♄22'57	-4°-48'-36
	1971 Aug 29 20:42	30°♄		minimum elong	1972 Aug 07 23:19	15°♄16'32	4°48'16
morning rise	1971 Sep 02 21:00	27°♄45'37		morning rise	1972 Aug 15 12:42	10°♄48'14	
direct	1971 Sep 05 06:02	27°♄21'47		direct	1972 Aug 17 22:38	10°♄27'32	
asc. node	1971 Sep 10 17:42	29°♄33'09		morning max el	1972 Aug 25 15:14	14°♄10'33	18°19'42
	1971 Sep 11 06:45	0°♄		asc. node	1972 Aug 27 14:46	16°♄17'36	
morning max el	1971 Sep 12 05:05	0°♄51'18	17°56'13		1972 Sep 05 11:36	0°♄	
morning set	1971 Sep 28 01:29	25°♄45'35		morning set	1972 Sep 10 13:37	9°♄30'29	
	1971 Sep 30 09:19	0°♄					
superior conj	1971 Oct 08 14:46	14°♄39'44	1°07'22	superior conj	1972 Sep 19 20:15	26°♄58'23	1°30'32
minimum elong	1971 Oct 08 19:20	14°♄59'34	1°06'49	minimum elong	1972 Sep 19 23:44	27°♄14'21	1°30'14
max. Earth dist.	1971 Oct 16 01:50	27°♄16'24	1.42581 AU		1972 Sep 21 12:11	0°♄	
	1971 Oct 17 17:49	0°♄		max. Earth dist.	1972 Sep 27 09:24	10°♄21'07	1.40687 AU
desc. node	1971 Oct 19 01:20	2°♄07'39		evening rise	1972 Oct 02 01:33	18°♄11'46	
evening rise	1971 Oct 22 17:09	7°♄57'42		desc. node	1972 Oct 04 22:22	22°♄51'15	
	1971 Nov 06 06:59	0°♄			1972 Oct 09 11:11	0°♄	
greatest brilliancy	1971 Nov 19 01:20	17°♄21'37	-0.3m		1972 Oct 30 19:27	0°♄	
evening max el	1971 Nov 23 18:53	22°♄42'51	22°01'15	evening max el	1972 Nov 05 09:53	6°♄16'18	23°20'39
retrograde	1971 Dec 03 02:33	28°♄15'36		retrograde	1972 Nov 15 20:27	12°♄27'14	
evening set	1971 Dec 07 11:33	26°♄31'57		evening set	1972 Nov 20 18:20	10°♄26'28	
asc. node	1971 Dec 07 16:58	26°♄20'49		asc. node	1972 Nov 23 14:01	7°♄28'41	
inferior conj	1971 Dec 12 21:02	20°♄11'04	1°41'53	min. Earth dist.	1972 Nov 25 18:35	4°♄35'07	0.67792 AU
minimum elong	1971 Dec 12 18:56	20°♄18'19	1°41'07	inferior conj	1972 Nov 26 04:28	4°♄01'11	0°53'01
min. Earth dist.	1971 Dec 12 21:51	20°♄08'15	0.67784 AU	minimum elong	1972 Nov 26 03:15	4°♄05'20	0°52'31
morning rise	1971 Dec 18 02:09	13°♄57'23			1972 Nov 29 07:08	30°♄	
direct	1971 Dec 22 20:47	11°♄57'43		morning rise	1972 Dec 01 12:16	27°♄51'00	
morning max el	1972 Jan 01 14:17	17°♄42'54	22°37'48	direct	1972 Dec 05 16:22	26°♄14'11	
greatest brilliancy	1972 Jan 06 04:12	22°♄49'40	-0.3m		1972 Dec 12 23:20	0°♄	
	1972 Jan 11 18:18	0°♄		morning max el	1972 Dec 14 05:59	1°♄13'38	21°14'38
desc. node	1972 Jan 15 00:36	4°♄29'18		greatest brilliancy	1972 Dec 19 12:10	7°♄15'34	-0.4m
	1972 Jan 31 23:46	0°♄		desc. node	1972 Dec 31 21:37	24°♄28'40	
morning set	1972 Feb 04 13:04	5°♄45'10			1973 Jan 04 14:41	0°♄	
max. Earth dist.	1972 Feb 09 11:47	14°♄01'17	1.40317 AU	morning set	1973 Jan 14 01:07	14°♄30'27	
				max. Earth dist.	1973 Jan 21 13:36	26°♄34'40	1.42321 AU
superior conj	1972 Feb 17 06:38	27°♄42'21	-1°-58'-50		1973 Jan 23 15:23	0°♄	
minimum elong	1972 Feb 17 09:48	27°♄56'44	1°58'41	superior conj	1973 Jan 28 20:31	8°♄47'59	-2°-4'-54
	1972 Feb 18 12:53	0°♄		minimum elong	1973 Jan 28 20:08	8°♄46'19	2°04'55
evening rise	1972 Feb 27 06:02	16°♄18'34		evening rise	1973 Feb 09 05:35	28°♄57'04	
asc. node	1972 Mar 04 16:18	28°♄12'13			1973 Feb 09 19:30	0°♄	
	1972 Mar 05 16:59	0°♄		asc. node	1973 Feb 19 13:21	16°♄55'27	
evening max el	1972 Mar 14 09:58	12°♄12'10	18°23'28	evening max el	1973 Feb 25 20:17	25°♄10'37	18°08'07
retrograde	1972 Mar 21 18:38	15°♄50'43		retrograde	1973 Mar 04 12:58	28°♄35'41	
evening set	1972 Mar 24 04:10	15°♄28'35		evening set	1973 Mar 07 03:44	28°♄04'37	
inferior conj	1972 Mar 31 12:00	10°♄52'25	2°52'07	inferior conj	1973 Mar 13 20:16	23°♄07'20	3°30'37
minimum elong	1972 Mar 31 15:46	10°♄44'37	2°51'17	minimum elong	1973 Mar 13 22:23	23°♄02'18	3°30'22
min. Earth dist.	1972 Apr 03 22:33	8°♄03'33	0.58811 AU	min. Earth dist.	1973 Mar 17 01:08	20°♄05'13	0.60957 AU
morning rise	1972 Apr 07 23:23	5°♄21'23		morning rise	1973 Mar 20 13:59	17°♄16'16	
desc. node	1972 Apr 11 23:48	3°♄53'14		direct	1973 Mar 27 08:19	15°♄00'47	
direct	1972 Apr 14 03:29	3°♄40'58		desc. node	1973 Mar 29 20:50	15°♄18'29	
morning max el	1972 Apr 28 12:29	11°♄24'06	27°02'27	morning max el	1973 Apr 10 13:54	22°♄54'26	27°43'10
	1972 May 12 23:45	0°♄			1973 Apr 16 21:17	0°♄	

	1973 May 06 02:55	0°♄		direct	1974 Mar 09 22:16	27°♁08'25	
morning set	1973 May 13 00:42	13°♄31'56		desc. node	1974 Mar 16 17:51	29°♁18'18	
asc. node	1973 May 18 12:37	25°♄11'51			1974 Mar 17 20:11	0°♄	
max. Earth dist.	1973 May 19 04:13	26°♄36'40	1.32295 AU	morning max el	1974 Mar 23 20:23	5°♄04'22	27°46'37
					1974 Apr 11 15:20	0°♄	
superior conj	1973 May 20 08:24	29°♄10'43	0°19'11	morning set	1974 Apr 27 00:36	27°♄45'31	
minimum elong	1973 May 20 07:32	29°♄05'58	0°18'59		1974 Apr 28 03:10	0°♄	
	1973 May 20 17:24	0°♄		max. Earth dist.	1974 May 02 10:46	9°♄00'12	1.32799 AU
evening rise	1973 May 27 06:18	14°♄12'10					
	1973 Jun 04 04:42	0°♄		superior conj	1974 May 04 16:55	13°♄50'38	0°-7'-21
evening max el	1973 Jun 22 17:05	26°♄14'00	25°07'28	minimum elong	1974 May 04 17:16	13°♄52'34	0°07'17
desc. node	1973 Jun 25 20:06	28°♄56'48		behind sun begin	1974 May 04 12:35	13°♄27'15	
	1973 Jun 27 06:42	0°♄		behind sun end	1974 May 04 21:58	14°♄17'54	
retrograde	1973 Jul 06 17:00	3°♄20'47		asc. node	1974 May 05 09:40	15°♄21'12	
evening set	1973 Jul 12 04:56	2°♄11'13		evening rise	1974 May 11 18:09	29°♄03'12	
	1973 Jul 16 08:03	30°♄			1974 May 12 04:55	0°♄	
min. Earth dist.	1973 Jul 17 04:46	29°♄26'48	0.57593 AU		1974 May 29 08:03	0°♄	
inferior conj	1973 Jul 20 06:05	27°♄22'53	-4°-57'00	evening max el	1974 Jun 04 07:01	6°♄48'46	23°34'19
minimum elong	1973 Jul 20 04:54	27°♄24'54	4°57'00	desc. node	1974 Jun 12 17:07	12°♄36'40	
morning rise	1973 Jul 28 08:36	23°♄10'43		retrograde	1974 Jun 17 22:38	13°♄38'45	
direct	1973 Jul 30 21:47	22°♄51'35		evening set	1974 Jun 21 23:10	13°♄03'16	
morning max el	1973 Aug 08 17:36	26°♄59'58	19°04'00	min. Earth dist.	1974 Jun 28 17:20	9°♄54'27	0.55959 AU
	1973 Aug 11 12:21	0°♄		inferior conj	1974 Jun 30 20:06	8°♄38'33	-4°-25'-9
asc. node	1973 Aug 14 11:50	4°♄01'10		minimum elong	1974 Jun 30 13:43	8°♄48'08	4°24'03
morning set	1973 Aug 25 11:30	23°♄43'52		morning rise	1974 Jul 09 07:34	4°♄42'47	
	1973 Aug 28 15:22	0°♄		direct	1974 Jul 12 01:56	4°♄23'44	
				morning max el	1974 Jul 22 09:32	9°♄10'35	20°09'35
superior conj	1973 Sep 02 20:24	10°♄12'31	1°42'42	asc. node	1974 Aug 01 08:52	22°♄30'33	
minimum elong	1973 Sep 02 22:01	10°♄20'16	1°42'38		1974 Aug 05 11:42	0°♄	
max. Earth dist.	1973 Sep 09 13:02	22°♄42'07	1.38634 AU	morning set	1974 Aug 09 16:03	8°♄17'48	
evening rise	1973 Sep 13 10:05	29°♄33'17					
	1973 Sep 13 16:16	0°♄		superior conj	1974 Aug 17 10:07	24°♄07'39	1°45'42
desc. node	1973 Sep 21 19:23	13°♄27'21		minimum elong	1974 Aug 17 09:57	24°♄06'50	1°45'42
	1973 Oct 02 20:12	0°♄			1974 Aug 20 09:04	0°♄	
evening max el	1973 Oct 18 22:20	19°♄53'27	24°39'36	max. Earth dist.	1974 Aug 22 18:24	4°♄37'23	1.36678 AU
retrograde	1973 Oct 30 10:29	26°♄36'06		evening rise	1974 Aug 26 16:52	11°♄58'14	
evening set	1973 Nov 04 22:26	24°♄18'45			1974 Sep 06 05:48	0°♄	
min. Earth dist.	1973 Nov 09 14:09	19°♄01'13	0.67471 AU	desc. node	1974 Sep 08 16:26	3°♄51'20	
inferior conj	1973 Nov 10 10:32	17°♄53'23	0°00'-26		1974 Sep 28 00:20	0°♄	
minimum elong	1973 Nov 10 10:32	17°♄53'21	0°00'26	evening max el	1974 Oct 01 10:25	3°♄33'56	25°50'46
transit begin	1973 Nov 10 07:47	18°♄02'30		retrograde	1974 Oct 13 19:48	10°♄37'47	
transit end	1973 Nov 10 13:17	17°♄44'12		evening set	1974 Oct 19 22:07	8°♄06'09	
asc. node	1973 Nov 10 11:03	17°♄51'40		min. Earth dist.	1974 Oct 24 06:07	3°♄24'23	0.66821 AU
morning rise	1973 Nov 15 23:05	11°♄49'08		inferior conj	1974 Oct 25 13:28	1°♄45'19	0°-57'-7
direct	1973 Nov 19 14:14	10°♄33'19		minimum elong	1974 Oct 25 14:57	1°♄40'36	0°56'31
morning max el	1973 Nov 27 05:09	14°♄54'40	20°02'30		1974 Oct 26 23:21	30°♄	
greatest brilliancy	1973 Dec 04 07:42	23°♄32'37	-0.6m	asc. node	1974 Oct 28 08:03	28°♄26'04	
	1973 Dec 08 21:29	0°♄		morning rise	1974 Oct 31 08:38	25°♄49'50	
desc. node	1973 Dec 18 18:38	14°♄46'28		direct	1974 Nov 03 12:51	24°♄51'48	
morning set	1973 Dec 23 21:15	22°♄37'00		morning max el	1974 Nov 10 11:51	28°♄45'13	19°04'49
	1973 Dec 28 15:14	0°♄			1974 Nov 11 16:05	0°♄	
max. Earth dist.	1974 Jan 03 22:43	9°♄58'21	1.43913 AU		1974 Dec 02 06:17	0°♄	
				morning set	1974 Dec 03 02:45	1°♄19'53	
superior conj	1974 Jan 09 08:22	18°♄41'41	-1°-54'-58	desc. node	1974 Dec 05 15:40	5°♄17'46	
minimum elong	1974 Jan 09 02:32	18°♄17'55	1°54'38	max. Earth dist.	1974 Dec 17 14:25	24°♄01'04	1.44894 AU
	1974 Jan 16 03:56	0°♄					
evening rise	1974 Jan 22 11:13	10°♄44'43		superior conj	1974 Dec 19 20:02	27°♄32'37	-1°-25'-59
	1974 Feb 02 22:42	0°♄		minimum elong	1974 Dec 19 11:12	26°♄57'40	1°25'06
asc. node	1974 Feb 06 10:22	4°♄59'56			1974 Dec 21 09:16	0°♄	
evening max el	1974 Feb 09 08:46	8°♄24'42	18°12'07	evening rise	1975 Jan 03 19:03	21°♄36'13	
retrograde	1974 Feb 15 19:45	11°♄50'20			1975 Jan 08 21:58	0°♄	
evening set	1974 Feb 18 15:37	11°♄09'05		evening max el	1975 Jan 23 20:43	21°♄48'06	18°34'33
inferior conj	1974 Feb 24 20:30	5°♄51'26	3°43'29	asc. node	1975 Jan 24 07:22	22°♄14'34	
minimum elong	1974 Feb 24 20:38	5°♄51'06	3°43'28	retrograde	1975 Jan 30 10:48	25°♄26'28	
min. Earth dist.	1974 Feb 27 12:21	2°♄59'57	0.63000 AU	evening set	1975 Feb 02 12:12	24°♄33'59	
	1974 Mar 02 17:49	30°♄		inferior conj	1975 Feb 08 08:43	18°♄57'32	3°37'20
morning rise	1974 Mar 02 23:37	29°♄48'41		minimum elong	1975 Feb 08 07:18	19°♄01'46	3°37'12

min. Earth dist.	1975 Feb 10 09:01	16° \approx 34'04	0.64748 AU		1976 Jan 25 01:30	30° \approx	
morning rise	1975 Feb 14 01:07	12° \approx 47'58		morning rise	1976 Jan 28 14:55	26° \approx 06'43	
direct	1975 Feb 20 19:27	9° \approx 57'38		direct	1976 Feb 03 22:57	23° \approx 19'58	
desc. node	1975 Mar 03 14:52	15° \approx 18'39			1976 Feb 15 19:03	0° \approx	
morning max el	1975 Mar 06 05:39	17° \approx 46'33	27°15'02	morning max el	1976 Feb 16 15:21	0° \approx 50'11	26°15'08
	1975 Mar 16 11:50	0° \approx		desc. node	1976 Feb 18 11:54	2° \approx 46'45	
	1975 Apr 04 12:28	0° \approx			1976 Mar 09 12:02	0° \approx	
morning set	1975 Apr 10 15:37	11° \approx 28'26		morning set	1976 Mar 23 18:02	24° \approx 29'56	
max. Earth dist.	1975 Apr 15 08:45	20° \approx 53'58	1.33744 AU		1976 Mar 26 15:36	0° \approx	
				max. Earth dist.	1976 Mar 27 19:33	2° \approx 15'39	1.35150 AU
superior conj	1975 Apr 18 20:55	28° \approx 12'04	0°-35'-9				
minimum elong	1975 Apr 18 22:41	28° \approx 21'23	0°34'47	superior conj	1976 Apr 01 18:06	12° \approx 08'17	-1°-2'-54
	1975 Apr 19 17:20	0° \approx		minimum elong	1976 Apr 01 21:15	12° \approx 24'25	1°02'21
asc. node	1975 Apr 22 06:42	5° \approx 26'19		asc. node	1976 Apr 08 03:44	25° \approx 23'13	
evening rise	1975 Apr 26 05:02	13° \approx 46'16		evening rise	1976 Apr 09 13:04	28° \approx 15'23	
	1975 May 04 11:55	0° \approx			1976 Apr 10 09:29	0° \approx	
evening max el	1975 May 16 23:58	17° \approx 21'30	21°59'13	evening max el	1976 Apr 28 02:23	28° \approx 20'15	20°34'50
retrograde	1975 May 29 16:00	23° \approx 35'52			1976 Apr 29 23:11	0° \approx	
desc. node	1975 May 30 14:08	23° \approx 33'57		retrograde	1976 May 09 05:04	3° \approx 44'06	
evening set	1975 Jun 01 09:37	23° \approx 19'14		evening set	1976 May 11 07:22	3° \approx 33'22	
min. Earth dist.	1975 Jun 10 04:52	19° \approx 33'32	0.55030 AU	desc. node	1976 May 16 11:07	1° \approx 47'49	
inferior conj	1975 Jun 10 18:14	19° \approx 14'50	-3°-5'-13		1976 May 19 19:21	30° \approx	
minimum elong	1975 Jun 10 10:35	19° \approx 25'33	3°02'56	inferior conj	1976 May 20 12:15	29° \approx 35'42	-1°-10'-43
morning rise	1975 Jun 19 13:05	15° \approx 22'04		minimum elong	1976 May 20 08:54	29° \approx 40'31	1°09'31
direct	1975 Jun 22 15:18	15° \approx 00'50		min. Earth dist.	1976 May 21 17:22	28° \approx 53'42	0.55027 AU
morning max el	1975 Jul 04 13:52	20° \approx 36'19	21°34'56	morning rise	1976 May 29 09:03	25° \approx 26'07	
	1975 Jul 12 08:56	0° \approx		direct	1976 Jun 02 01:20	24° \approx 56'59	
asc. node	1975 Jul 19 05:54	11° \approx 34'04			1976 Jun 13 19:20	0° \approx	
morning set	1975 Jul 25 00:52	23° \approx 04'48		morning max el	1976 Jun 15 08:48	1° \approx 23'15	23°14'06
	1975 Jul 28 08:05	0° \approx			1976 Jul 04 14:18	0° \approx	
superior conj	1975 Aug 01 09:17	8° \approx 30'59	1°41'19	asc. node	1976 Jul 05 02:59	1° \approx 03'01	
minimum elong	1975 Aug 01 07:49	8° \approx 23'22	1°41'13	morning set	1976 Jul 08 12:05	7° \approx 59'11	
max. Earth dist.	1975 Aug 05 06:50	16° \approx 31'05	1.35002 AU	superior conj	1976 Jul 15 14:50	23° \approx 13'18	1°30'55
evening rise	1975 Aug 09 17:17	25° \approx 13'45		minimum elong	1976 Jul 15 12:38	23° \approx 01'30	1°30'40
	1975 Aug 12 06:12	0° \approx		max. Earth dist.	1976 Jul 18 04:21	28° \approx 40'04	1.33700 AU
desc. node	1975 Aug 26 13:28	23° \approx 56'19			1976 Jul 18 19:35	0° \approx	
	1975 Aug 30 17:20	0° \approx		evening rise	1976 Jul 23 06:53	9° \approx 07'46	
evening max el	1975 Sep 13 22:44	17° \approx 10'34	26°46'34		1976 Aug 03 16:41	0° \approx	
retrograde	1975 Sep 26 23:46	24° \approx 25'29		desc. node	1976 Aug 12 10:28	13° \approx 34'08	
evening set	1975 Oct 03 15:19	21° \approx 44'25			1976 Aug 25 20:52	0° \approx	
min. Earth dist.	1975 Oct 07 16:01	17° \approx 39'43	0.65818 AU	evening max el	1976 Aug 26 10:31	0° \approx 32'58	27°19'39
inferior conj	1975 Oct 09 11:15	15° \approx 32'38	-1°-55'-31	retrograde	1976 Sep 08 22:04	7° \approx 51'24	
minimum elong	1975 Oct 09 14:20	15° \approx 23'32	1°54'18	evening set	1976 Sep 15 23:27	5° \approx 09'08	
asc. node	1975 Oct 15 05:05	10° \approx 02'28		min. Earth dist.	1976 Sep 19 17:38	1° \approx 40'34	0.64456 AU
morning rise	1975 Oct 15 14:44	9° \approx 49'10			1976 Sep 21 07:15	30° \approx	
direct	1975 Oct 18 10:15	9° \approx 05'13		inferior conj	1976 Sep 22 01:34	29° \approx 10'29	-2°-53'-21
morning max el	1975 Oct 25 00:22	12° \approx 40'48	18°23'17	minimum elong	1976 Sep 22 06:06	28° \approx 58'17	2°51'48
	1975 Nov 06 08:58	0° \approx		morning rise	1976 Sep 28 14:46	23° \approx 42'20	
morning set	1975 Nov 13 11:02	11° \approx 25'33		direct	1976 Oct 01 03:59	23° \approx 08'49	
desc. node	1975 Nov 22 12:43	25° \approx 58'09		asc. node	1976 Oct 01 02:09	23° \approx 08'51	
	1975 Nov 25 01:44	0° \approx		morning max el	1976 Oct 07 16:06	26° \approx 35'36	17°58'38
superior conj	1975 Nov 28 21:20	6° \approx 01'13	0°-41'-42		1976 Oct 10 14:47	0° \approx	
minimum elong	1975 Nov 28 15:58	5° \approx 40'04	0°41'00	morning set	1976 Oct 24 23:45	22° \approx 54'02	
max. Earth dist.	1975 Nov 30 09:36	8° \approx 23'45	1.45144 AU		1976 Oct 29 04:55	0° \approx	
	1975 Dec 14 04:10	0° \approx		superior conj	1976 Nov 07 09:44	15° \approx 06'54	0°06'46
evening rise	1975 Dec 15 03:40	1° \approx 32'21		minimum elong	1976 Nov 07 10:31	15° \approx 10'07	0°06'39
greatest brilliancy	1975 Dec 28 13:47	22° \approx 26'12	-0.7m	behind sun begin	1976 Nov 07 01:01	14° \approx 31'45	
	1976 Jan 02 20:22	0° \approx		behind sun end	1976 Nov 07 20:02	15° \approx 48'25	
evening max el	1976 Jan 07 05:47	5° \approx 16'20	19°14'18	desc. node	1976 Nov 08 09:45	16° \approx 43'32	
asc. node	1976 Jan 11 04:23	8° \approx 26'08		max. Earth dist.	1976 Nov 12 04:21	22° \approx 44'41	1.44651 AU
retrograde	1976 Jan 14 06:42	9° \approx 18'01			1976 Nov 16 19:02	0° \approx	
evening set	1976 Jan 17 14:41	8° \approx 13'11		evening rise	1976 Nov 23 17:31	10° \approx 45'38	
inferior conj	1976 Jan 23 05:33	2° \approx 20'12	3°17'12		1976 Dec 06 09:25	0° \approx	
minimum elong	1976 Jan 23 03:13	2° \approx 27'39	3°16'46	greatest brilliancy	1976 Dec 13 18:56	10° \approx 38'10	-0.6m
min. Earth dist.	1976 Jan 24 14:39	0° \approx 34'07	0.66106 AU	evening max el	1976 Dec 20 10:09	18° \approx 45'47	20°09'40

retrograde	1976 Dec 28 04:34	23°☿19'17		asc. node	1977 Dec 14 22:28	6°☿42'05	
asc. node	1976 Dec 28 01:25	23°☿19'11		evening set	1977 Dec 16 04:24	5°☿53'06	
evening set	1976 Dec 31 20:44	22°☿00'41			1977 Dec 21 07:18	30°♁	
inferior conj	1977 Jan 06 08:07	15°☿54'11	2°46'29	inferior conj	1977 Dec 21 14:08	29°♁36'27	2°07'29
minimum elong	1977 Jan 06 05:29	16°☿03'02	2°45'46	minimum elong	1977 Dec 21 11:43	29°♁44'48	2°06'39
min. Earth dist.	1977 Jan 07 03:35	14°☿48'39	0.67056 AU	min. Earth dist.	1977 Dec 21 21:28	29°♁11'06	0.67624 AU
morning rise	1977 Jan 11 13:41	9°☿38'52		morning rise	1977 Dec 26 18:41	23°♁21'23	
direct	1977 Jan 17 08:01	7°☿05'55		direct	1977 Dec 31 22:02	21°♁08'31	
morning max el	1977 Jan 29 00:08	14°☿03'45	24°56'08	morning max el	1978 Jan 11 08:55	27°♁22'01	23°28'16
desc. node	1977 Feb 04 08:57	21°☿16'40			1978 Jan 13 20:07	0°☿	
	1977 Feb 10 23:55	0°♁		greatest brilliancy	1978 Jan 17 08:38	4°☿09'55	-0.2m
	1977 Mar 02 08:09	0°♁		desc. node	1978 Jan 22 06:00	10°☿30'41	
morning set	1977 Mar 06 02:46	6°♁35'16			1978 Feb 04 15:54	0°♁	
max. Earth dist.	1977 Mar 09 19:33	13°♁17'41	1.36975 AU	morning set	1978 Feb 15 11:34	17°♁27'56	
				max. Earth dist.	1978 Feb 19 14:13	24°♁31'53	1.39081 AU
					1978 Feb 22 16:11	0°♁	
superior conj	1977 Mar 16 05:25	25°♁30'43	-1°-28'-46				
minimum elong	1977 Mar 16 09:34	25°♁51'02	1°28'14	superior conj	1978 Feb 27 03:03	8°♁09'47	-1°-50'-4
	1977 Mar 18 11:56	0°♁		minimum elong	1978 Feb 27 07:07	8°♁28'46	1°49'45
evening rise	1977 Mar 24 15:58	12°♁23'16		evening rise	1978 Mar 08 10:59	26°♁02'55	
asc. node	1977 Mar 26 00:47	15°♁06'57			1978 Mar 10 12:10	0°♁	
	1977 Apr 03 02:46	0°♁		asc. node	1978 Mar 12 21:49	4°♁32'28	
evening max el	1977 Apr 10 16:38	9°♁58'17	19°28'06	evening max el	1978 Mar 24 17:13	22°♁14'36	18°41'18
retrograde	1977 Apr 20 02:09	14°♁30'43		retrograde	1978 Apr 01 16:17	26°♁07'39	
evening set	1977 Apr 22 03:21	14°♁18'41		evening set	1978 Apr 03 22:35	25°♁49'59	
inferior conj	1977 Apr 30 16:44	10°♁12'46	0°45'20	inferior conj	1978 Apr 11 16:49	21°♁26'16	2°15'37
minimum elong	1977 Apr 30 18:37	10°♁09'43	0°44'41	minimum elong	1978 Apr 11 20:49	21°♁18'44	2°14'30
min. Earth dist.	1977 May 03 07:54	8°♁31'04	0.55965 AU	min. Earth dist.	1978 Apr 15 01:19	18°♁55'55	0.57647 AU
desc. node	1977 May 03 08:09	8°♁30'41		morning rise	1978 Apr 19 14:41	16°♁11'09	
morning rise	1977 May 09 06:02	5°♁30'56		desc. node	1978 Apr 20 05:11	15°♁55'16	
direct	1977 May 13 20:51	4°♁42'38		direct	1978 Apr 25 06:48	14°♁51'18	
morning max el	1977 May 27 23:25	11°♁50'37	24°55'26	morning max el	1978 May 09 15:26	22°♁25'24	26°23'29
	1977 Jun 10 21:07	0°♁			1978 May 16 08:20	0°♁	
asc. node	1977 Jun 22 00:04	20°♁50'12			1978 Jun 03 15:26	0°♁	
morning set	1977 Jun 22 23:58	22°♁55'31		morning set	1978 Jun 07 10:53	7°♁47'55	
	1977 Jun 26 07:07	0°♁		asc. node	1978 Jun 08 21:07	10°♁49'31	
superior conj	1977 Jun 30 00:22	8°♁06'43	1°15'36	superior conj	1978 Jun 14 11:50	23°♁04'03	0°56'14
minimum elong	1977 Jun 29 21:57	7°♁53'35	1°15'15	minimum elong	1978 Jun 14 09:42	22°♁52'18	0°55'50
max. Earth dist.	1977 Jul 01 09:55	11°♁09'06	1.32798 AU	max. Earth dist.	1978 Jun 14 20:36	23°♁52'15	1.32300 AU
evening rise	1977 Jul 07 05:57	23°♁29'32			1978 Jun 17 15:49	0°♁	
	1977 Jul 10 12:00	0°♁		evening rise	1978 Jun 21 11:28	8°♁09'16	
	1977 Jul 28 10:15	0°♁			1978 Jul 02 22:28	0°♁	
desc. node	1977 Jul 30 07:29	2°♁33'35		desc. node	1978 Jul 17 04:31	20°♁38'04	
evening max el	1977 Aug 08 20:00	13°♁29'23	27°23'52	evening max el	1978 Jul 22 00:42	25°♁46'50	26°55'13
retrograde	1977 Aug 22 14:19	20°♁46'38			1978 Jul 27 06:10	0°♁	
evening set	1977 Aug 29 19:12	18°♁15'00		retrograde	1978 Aug 04 23:07	3°♁00'38	
min. Earth dist.	1977 Sep 02 09:28	15°♁16'59	0.62751 AU	evening set	1978 Aug 11 22:06	0°♁53'20	
inferior conj	1977 Sep 05 05:41	12°♁33'03	-3°-47'-7		1978 Aug 13 07:05	30°♁	
minimum elong	1977 Sep 05 11:01	12°♁20'12	3°45'41	min. Earth dist.	1978 Aug 15 14:55	28°♁14'15	0.60783 AU
morning rise	1977 Sep 12 05:27	7°♁23'23		inferior conj	1978 Aug 18 20:11	25°♁31'00	-4°-31'-8
direct	1977 Sep 14 15:04	6°♁56'58		minimum elong	1978 Aug 19 00:52	25°♁21'04	4°30'22
asc. node	1977 Sep 17 23:15	7°♁49'24		morning rise	1978 Aug 26 06:45	20°♁42'41	
morning max el	1977 Sep 21 08:09	10°♁23'21	17°51'44	direct	1978 Aug 28 15:41	20°♁20'32	
	1977 Oct 04 09:16	0°♁		morning max el	1978 Sep 04 21:19	23°♁54'59	18°03'44
morning set	1977 Oct 07 11:35	5°♁29'15		asc. node	1978 Sep 04 20:19	23°♁52'35	
					1978 Sep 09 19:23	0°♁	
superior conj	1977 Oct 18 23:16	25°♁27'59	0°48'29	morning set	1978 Sep 20 16:20	18°♁52'41	
minimum elong	1977 Oct 19 03:29	25°♁45'44	0°47'55		1978 Sep 26 16:40	0°♁	
	1977 Oct 21 16:23	0°♁					
max. Earth dist.	1977 Oct 25 19:47	6°♁46'38	1.43493 AU	superior conj	1978 Sep 30 15:22	7°♁06'36	1°18'37
desc. node	1977 Oct 26 06:47	7°♁31'05		minimum elong	1978 Sep 30 19:40	7°♁25'42	1°18'10
evening rise	1977 Nov 03 02:06	19°♁51'13		max. Earth dist.	1978 Oct 08 06:15	20°♁14'45	1.41813 AU
	1977 Nov 09 17:20	0°♁		desc. node	1978 Oct 13 03:49	28°♁17'02	
greatest brilliancy	1977 Nov 28 06:17	26°♁21'26	-0.4m	evening rise	1978 Oct 13 22:24	29°♁31'38	
	1977 Dec 01 06:43	0°☿			1978 Oct 14 05:30	0°♁	
evening max el	1977 Dec 03 08:59	2°☿16'21	21°17'49		1978 Nov 03 07:48	0°♁	
retrograde	1977 Dec 12 02:11	7°☿27'01					

greatest brilliancy	1978 Nov 11 06:33	10° $\overline{\text{A}}$ 23'30	-0.3m			1979 Oct 07 03:55	0° $\overline{\text{M}}$		
evening max el	1978 Nov 16 02:35	15° $\overline{\text{A}}$ 48'37	22°34'40	evening max el		1979 Oct 29 16:23	29° $\overline{\text{M}}$ 23'57	23°54'42	
retrograde	1978 Nov 25 21:42	21° $\overline{\text{A}}$ 37'49				1979 Oct 30 07:06	0° $\overline{\text{A}}$		
evening set	1978 Nov 30 11:56	19° $\overline{\text{A}}$ 47'11		retrograde		1979 Nov 09 13:55	5° $\overline{\text{A}}$ 48'37		
asc. node	1978 Dec 01 19:31	18° $\overline{\text{A}}$ 33'53		evening set		1979 Nov 14 17:45	3° $\overline{\text{A}}$ 40'40		
inferior conj	1978 Dec 05 21:33	13° $\overline{\text{A}}$ 24'07	1°21'50			1979 Nov 18 03:09	30° $\overline{\text{M}}$		
minimum elong	1978 Dec 05 19:48	13° $\overline{\text{A}}$ 30'13	1°21'08	asc. node		1979 Nov 18 16:33	29° $\overline{\text{M}}$ 16'23		
min. Earth dist.	1978 Dec 05 17:51	13° $\overline{\text{A}}$ 36'56	0.67835 AU	min. Earth dist.		1979 Nov 19 14:17	28° $\overline{\text{M}}$ 03'39	0.67704 AU	
morning rise	1978 Dec 11 03:32	7° $\overline{\text{A}}$ 11'28		inferior conj		1979 Nov 20 04:36	27° $\overline{\text{M}}$ 15'04	0°30'51	
direct	1978 Dec 15 15:56	5° $\overline{\text{A}}$ 21'22		minimum elong		1979 Nov 20 03:52	27° $\overline{\text{M}}$ 17'32	0°30'32	
morning max el	1978 Dec 24 20:56	10° $\overline{\text{A}}$ 46'17	22°01'13	morning rise		1979 Nov 25 14:12	21° $\overline{\text{M}}$ 07'14		
greatest brilliancy	1978 Dec 29 13:24	16° $\overline{\text{A}}$ 02'37	-0.4m	direct		1979 Nov 29 12:41	19° $\overline{\text{M}}$ 39'32		
	1979 Jan 08 22:33	0° $\overline{\text{B}}$		morning max el		1979 Dec 07 15:37	24° $\overline{\text{M}}$ 20'59	20°42'19	
desc. node	1979 Jan 09 03:02	0° $\overline{\text{B}}$ 16'04				1979 Dec 12 13:34	0° $\overline{\text{A}}$		
morning set	1979 Jan 26 15:28	26° $\overline{\text{B}}$ 56'31		greatest brilliancy		1979 Dec 13 13:18	1° $\overline{\text{A}}$ 15'58	-0.5m	
	1979 Jan 28 12:49	0° $\overline{\text{A}}$		desc. node		1979 Dec 27 00:04	20° $\overline{\text{A}}$ 24'02		
max. Earth dist.	1979 Feb 01 11:58	6° $\overline{\text{A}}$ 32'39	1.41210 AU			1980 Jan 02 08:02	0° $\overline{\text{B}}$		
				morning set		1980 Jan 05 18:11	5° $\overline{\text{B}}$ 17'17		
superior conj	1979 Feb 09 06:06	19° $\overline{\text{A}}$ 53'32	-2°-3'-4	max. Earth dist.		1980 Jan 14 17:32	19° $\overline{\text{B}}$ 31'00	1.43070 AU	
minimum elong	1979 Feb 09 08:05	20° $\overline{\text{A}}$ 02'20	2°03'01			1980 Jan 21 02:18	0° $\overline{\text{A}}$		
	1979 Feb 14 20:38	0° $\overline{\text{H}}$							
evening rise	1979 Feb 19 18:44	9° $\overline{\text{H}}$ 06'10		superior conj		1980 Jan 21 09:15	0° $\overline{\text{A}}$ 29'07	-2°-2'-55	
asc. node	1979 Feb 27 18:51	23° $\overline{\text{H}}$ 33'25		minimum elong		1980 Jan 21 06:38	0° $\overline{\text{A}}$ 18'08	2°02'51	
	1979 Mar 03 21:32	0° $\overline{\text{Y}}$		evening rise		1980 Feb 02 11:12	21° $\overline{\text{A}}$ 24'03		
evening max el	1979 Mar 08 00:59	5° $\overline{\text{Y}}$ 00'47	18°14'35			1980 Feb 07 08:07	0° $\overline{\text{H}}$		
retrograde	1979 Mar 15 01:15	8° $\overline{\text{Y}}$ 31'18		asc. node		1980 Feb 14 15:52	12° $\overline{\text{H}}$ 01'13		
evening set	1979 Mar 17 13:14	8° $\overline{\text{Y}}$ 05'25		evening max el		1980 Feb 19 12:34	18° $\overline{\text{H}}$ 06'39	18°07'27	
inferior conj	1979 Mar 24 14:05	3° $\overline{\text{Y}}$ 20'17	3°12'03	retrograde		1980 Feb 26 01:33	21° $\overline{\text{H}}$ 30'19		
minimum elong	1979 Mar 24 17:17	3° $\overline{\text{Y}}$ 13'16	3°11'28	evening set		1980 Feb 28 18:33	20° $\overline{\text{H}}$ 54'55		
min. Earth dist.	1979 Mar 27 23:34	0° $\overline{\text{Y}}$ 22'45	0.59725 AU	inferior conj		1980 Mar 06 05:39	15° $\overline{\text{H}}$ 48'29	3°38'48	
	1979 Mar 28 10:39	30° $\overline{\text{H}}$		minimum elong		1980 Mar 06 06:54	15° $\overline{\text{H}}$ 45'20	3°38'42	
morning rise	1979 Mar 31 17:45	27° $\overline{\text{H}}$ 39'55		min. Earth dist.		1980 Mar 09 05:23	12° $\overline{\text{H}}$ 48'37	0.61855 AU	
direct	1979 Apr 07 05:21	25° $\overline{\text{H}}$ 43'45		morning rise		1980 Mar 12 16:43	9° $\overline{\text{H}}$ 51'44		
desc. node	1979 Apr 07 02:13	25° $\overline{\text{H}}$ 43'48		direct		1980 Mar 19 13:59	7° $\overline{\text{H}}$ 24'28		
	1979 Apr 17 12:48	0° $\overline{\text{Y}}$		desc. node		1980 Mar 23 23:14	8° $\overline{\text{H}}$ 18'11		
morning max el	1979 Apr 21 12:57	3° $\overline{\text{Y}}$ 31'40	27°24'13	morning max el		1980 Apr 02 16:48	15° $\overline{\text{H}}$ 19'15	27°49'15	
	1979 May 10 22:03	0° $\overline{\text{B}}$				1980 Apr 14 15:58	0° $\overline{\text{Y}}$		
morning set	1979 May 22 19:08	22° $\overline{\text{B}}$ 31'02				1980 May 02 10:56	0° $\overline{\text{B}}$		
	1979 May 26 07:44	0° $\overline{\text{II}}$		morning set		1980 May 05 22:44	6° $\overline{\text{B}}$ 57'19		
asc. node	1979 May 26 18:09	0° $\overline{\text{II}}$ 56'22		max. Earth dist.		1980 May 11 18:54	19° $\overline{\text{B}}$ 15'47	1.32465 AU	
max. Earth dist.	1979 May 29 08:56	6° $\overline{\text{II}}$ 39'20	1.32190 AU	asc. node		1980 May 12 15:10	21° $\overline{\text{B}}$ 05'38		
superior conj	1979 May 29 23:31	7° $\overline{\text{II}}$ 59'30	0°33'31	superior conj		1980 May 13 09:40	22° $\overline{\text{B}}$ 46'16	0°08'09	
minimum elong	1979 May 29 22:05	7° $\overline{\text{II}}$ 51'36	0°33'13	minimum elong		1980 May 13 09:17	22° $\overline{\text{B}}$ 44'11	0°08'04	
evening rise	1979 Jun 05 21:03	22° $\overline{\text{II}}$ 59'16		behind sun begin		1980 May 13 04:50	22° $\overline{\text{B}}$ 19'57		
	1979 Jun 09 06:32	0° $\overline{\text{E}}$		behind sun end		1980 May 13 13:44	23° $\overline{\text{B}}$ 08'26		
	1979 Jun 27 09:51	0° $\overline{\text{Q}}$				1980 May 16 17:06	0° $\overline{\text{II}}$		
evening max el	1979 Jul 03 22:33	7° $\overline{\text{Q}}$ 17'48	25°54'19	evening rise		1980 May 20 08:35	7° $\overline{\text{II}}$ 51'26		
desc. node	1979 Jul 04 01:31	7° $\overline{\text{Q}}$ 24'51				1980 May 31 22:05	0° $\overline{\text{E}}$		
retrograde	1979 Jul 17 22:42	14° $\overline{\text{Q}}$ 27'21		evening max el		1980 Jun 14 13:48	18° $\overline{\text{E}}$ 05'50	24°28'55	
evening set	1979 Jul 24 03:22	12° $\overline{\text{Q}}$ 55'28		desc. node		1980 Jun 19 22:31	22° $\overline{\text{E}}$ 22'50		
min. Earth dist.	1979 Jul 28 10:59	10° $\overline{\text{Q}}$ 18'27	0.58726 AU	retrograde		1980 Jun 28 11:12	25° $\overline{\text{E}}$ 07'07		
inferior conj	1979 Jul 31 17:27	7° $\overline{\text{Q}}$ 54'42	-4°-56'-13	evening set		1980 Jul 03 08:54	24° $\overline{\text{E}}$ 13'12		
minimum elong	1979 Jul 31 19:07	7° $\overline{\text{Q}}$ 51'38	4°56'10	min. Earth dist.		1980 Jul 09 00:48	21° $\overline{\text{E}}$ 20'14	0.56836 AU	
morning rise	1979 Aug 08 14:21	3° $\overline{\text{Q}}$ 29'32		inferior conj		1980 Jul 11 18:45	19° $\overline{\text{E}}$ 35'04	-4°-49'-11	
direct	1979 Aug 11 01:32	3° $\overline{\text{Q}}$ 09'32		minimum elong		1980 Jul 11 15:13	19° $\overline{\text{E}}$ 40'45	4°48'52	
morning max el	1979 Aug 19 04:24	7° $\overline{\text{Q}}$ 01'55	18°35'56	morning rise		1980 Jul 20 01:13	15° $\overline{\text{E}}$ 31'16		
asc. node	1979 Aug 22 17:22	11° $\overline{\text{Q}}$ 03'30		direct		1980 Jul 22 16:37	15° $\overline{\text{E}}$ 12'14		
	1979 Sep 02 21:39	0° $\overline{\text{M}}$		morning max el		1980 Aug 01 02:29	19° $\overline{\text{E}}$ 34'52	19°29'25	
morning set	1979 Sep 04 09:02	2° $\overline{\text{M}}$ 50'43		asc. node		1980 Aug 08 14:23	29° $\overline{\text{E}}$ 07'26		
						1980 Aug 09 03:31	0° $\overline{\text{Q}}$		
superior conj	1979 Sep 13 05:25	19° $\overline{\text{M}}$ 50'09	1°36'55	morning set		1980 Aug 18 10:02	17° $\overline{\text{Q}}$ 13'18		
minimum elong	1979 Sep 13 08:08	20° $\overline{\text{M}}$ 02'53	1°36'45			1980 Aug 24 18:47	0° $\overline{\text{M}}$		
	1979 Sep 18 18:59	0° $\overline{\text{U}}$							
max. Earth dist.	1979 Sep 20 12:03	3° $\overline{\text{U}}$ 01'11	1.39823 AU	superior conj		1980 Aug 26 11:52	3° $\overline{\text{M}}$ 22'58	1°44'59	
evening rise	1979 Sep 24 16:57	10° $\overline{\text{U}}$ 13'44		minimum elong		1980 Aug 26 12:41	3° $\overline{\text{M}}$ 26'58	1°44'58	
desc. node	1979 Sep 30 00:51	18° $\overline{\text{U}}$ 57'46		max. Earth dist.		1980 Sep 01 15:56	15° $\overline{\text{M}}$ 09'09	1.37774 AU	

evening rise	1980 Sep 05 11:19	22° Υ 02'30		minimum elong	1981 Aug 10 05:14	17° Ω 27'10	1°44'38
	1980 Sep 10 02:00	0° $\underline{\Omega}$		max. Earth dist.	1981 Aug 14 23:23	26° Ω 58'45	1.35913 AU
desc. node	1980 Sep 15 21:52	9° $\underline{\Omega}$ 29'07			1981 Aug 16 12:47	0° Υ	
	1980 Sep 30 01:16	0° \mathbb{M}		evening rise	1981 Aug 19 02:05	4° Υ 49'50	
evening max el	1980 Oct 11 04:23	13° \mathbb{M} 02'27	25°11'16		1981 Sep 02 22:40	0° $\underline{\Omega}$	
retrograde	1980 Oct 23 01:59	19° \mathbb{M} 55'24		desc. node	1981 Sep 02 18:53	29° Υ 45'30	
evening set	1980 Oct 28 20:13	17° \mathbb{M} 31'15		evening max el	1981 Sep 23 16:17	26° $\underline{\Omega}$ 41'07	26°16'55
min. Earth dist.	1980 Nov 02 08:29	12° \mathbb{M} 29'03	0.67235 AU		1981 Sep 27 11:02	0° \mathbb{M}	
inferior conj	1980 Nov 03 09:32	11° \mathbb{M} 07'21	0°-24'-9	retrograde	1981 Oct 06 09:15	3° \mathbb{M} 51'48	
minimum elong	1980 Nov 03 10:09	11° \mathbb{M} 05'21	0°23'55	evening set	1981 Oct 12 17:26	1° \mathbb{M} 15'08	
asc. node	1980 Nov 04 13:35	9° \mathbb{M} 37'00			1981 Oct 14 02:09	30° $\underline{\Omega}$	
morning rise	1980 Nov 09 00:43	5° \mathbb{M} 06'47		min. Earth dist.	1981 Oct 16 22:08	26° $\underline{\Omega}$ 49'11	0.66427 AU
direct	1980 Nov 12 10:56	3° \mathbb{M} 59'03		inferior conj	1981 Oct 18 10:31	24° $\underline{\Omega}$ 57'22	-1°-21'-52
morning max el	1980 Nov 19 18:15	8° \mathbb{M} 07'04	19°36'12	minimum elong	1981 Oct 18 12:41	24° $\underline{\Omega}$ 50'43	1°20'58
greatest brilliancy	1980 Nov 28 01:37	18° \mathbb{M} 32'28	-0.6m	asc. node	1981 Oct 22 10:37	20° $\underline{\Omega}$ 31'58	
	1980 Dec 05 19:45	0° \mathcal{A}		morning rise	1981 Oct 24 09:03	19° $\underline{\Omega}$ 06'48	
desc. node	1980 Dec 12 21:07	10° \mathcal{A} 48'27		direct	1981 Oct 27 09:10	18° $\underline{\Omega}$ 15'24	
morning set	1980 Dec 14 15:24	13° \mathcal{A} 31'43		morning max el	1981 Nov 03 03:44	22° $\underline{\Omega}$ 00'24	18°45'12
	1980 Dec 25 04:46	0° \mathcal{B}			1981 Nov 09 13:14	0° \mathbb{M}	
max. Earth dist.	1980 Dec 27 06:11	3° \mathcal{B} 15'21	1.44412 AU	morning set	1981 Nov 24 07:05	22° \mathbb{M} 46'32	
					1981 Nov 28 20:52	0° \mathcal{A}	
superior conj	1980 Dec 31 10:04	9° \mathcal{B} 53'46	-1°-44'-59	desc. node	1981 Nov 29 18:09	1° \mathcal{A} 23'52	
minimum elong	1980 Dec 31 02:18	9° \mathcal{B} 22'36	1°44'24	max. Earth dist.	1981 Dec 09 23:16	17° \mathcal{A} 26'54	1.45083 AU
	1981 Jan 12 15:48	0° \approx					
evening rise	1981 Jan 14 08:07	2° \approx 49'24		superior conj	1981 Dec 10 14:54	18° \mathcal{A} 28'19	-1°-8'-33
	1981 Jan 31 17:35	0° \mathcal{H}		minimum elong	1981 Dec 10 06:46	17° \mathcal{A} 56'24	1°07'36
asc. node	1981 Jan 31 12:53	29° \approx 46'19			1981 Dec 17 22:21	0° \mathcal{B}	
evening max el	1981 Feb 02 01:06	1° \mathcal{H} 25'25	18°19'20	evening rise	1981 Dec 26 05:59	13° \mathcal{B} 16'30	
retrograde	1981 Feb 08 12:31	4° \mathcal{H} 55'26			1982 Jan 05 16:49	0° \approx	
evening set	1981 Feb 11 10:33	4° \mathcal{H} 09'36		evening max el	1982 Jan 16 12:04	14° \approx 51'13	18°49'24
	1981 Feb 16 08:02	30° \approx		asc. node	1982 Jan 18 09:55	16° \approx 36'02	
inferior conj	1981 Feb 17 11:31	28° \approx 43'29	3°42'51	retrograde	1982 Jan 23 06:03	18° \approx 38'36	
minimum elong	1981 Feb 17 10:55	28° \approx 45'11	3°42'49	evening set	1982 Jan 26 09:59	17° \approx 41'13	
min. Earth dist.	1981 Feb 19 20:45	26° \approx 02'18	0.63787 AU	inferior conj	1982 Feb 01 03:49	11° \approx 57'33	3°30'15
morning rise	1981 Feb 23 09:34	22° \approx 37'04		minimum elong	1982 Feb 01 01:56	12° \approx 03'21	3°30'00
direct	1981 Mar 02 07:06	19° \approx 50'53		min. Earth dist.	1982 Feb 02 21:36	9° \approx 48'54	0.65375 AU
desc. node	1981 Mar 10 20:17	23° \approx 13'54		morning rise	1982 Feb 06 16:47	5° \approx 45'47	
morning max el	1981 Mar 16 01:07	27° \approx 45'28	27°37'08	direct	1982 Feb 13 07:18	2° \approx 55'11	
	1981 Mar 18 04:33	0° \mathcal{H}		desc. node	1982 Feb 25 17:19	9° \approx 55'06	
	1981 Apr 08 09:11	0° \mathcal{Y}		morning max el	1982 Feb 26 10:54	10° \approx 38'38	26°52'24
morning set	1981 Apr 19 19:16	20° \mathcal{Y} 59'08			1982 Mar 13 19:11	0° \mathcal{H}	
	1981 Apr 24 05:31	0° \mathcal{B}			1982 Mar 31 20:59	0° \mathcal{Y}	
max. Earth dist.	1981 Apr 24 22:22	1° \mathcal{B} 28'08	1.33151 AU	morning set	1982 Apr 03 05:31	4° \mathcal{Y} 26'34	
				max. Earth dist.	1982 Apr 07 15:39	13° \mathcal{Y} 07'14	1.34284 AU
superior conj	1981 Apr 27 16:30	7° \mathcal{B} 18'46	0°-19'-4				
minimum elong	1981 Apr 27 17:26	7° \mathcal{B} 23'48	0°18'52	superior conj	1982 Apr 11 17:58	21° \mathcal{Y} 30'44	0°-47'-1
asc. node	1981 Apr 29 12:12	11° \mathcal{B} 13'23		minimum elong	1982 Apr 11 20:20	21° \mathcal{Y} 43'07	0°46'34
evening rise	1981 May 04 20:15	22° \mathcal{B} 39'32			1982 Apr 15 18:54	0° \mathcal{B}	
	1981 May 08 09:42	0° \mathbb{I}		asc. node	1982 Apr 16 09:15	1° \mathcal{B} 15'43	
evening max el	1981 May 27 03:48	28° \mathbb{I} 34'31	22°53'03	evening rise	1982 Apr 19 06:12	7° \mathcal{B} 17'33	
	1981 May 28 17:04	0° \mathcal{E}			1982 May 01 13:29	0° \mathbb{I}	
desc. node	1981 Jun 06 19:32	4° \mathcal{E} 56'19		evening max el	1982 May 09 00:20	9° \mathbb{I} 16'35	21°21'29
retrograde	1981 Jun 09 11:36	5° \mathcal{E} 12'35		retrograde	1982 May 21 02:05	15° \mathbb{I} 10'36	
evening set	1981 Jun 12 21:30	4° \mathcal{E} 47'01		evening set	1982 May 23 10:43	14° \mathbb{I} 57'51	
min. Earth dist.	1981 Jun 20 12:33	1° \mathcal{E} 23'58	0.55459 AU	desc. node	1982 May 24 16:32	14° \mathbb{I} 41'25	
inferior conj	1981 Jun 22 00:57	0° \mathcal{E} 31'29	-3°-56'-52	inferior conj	1982 Jun 01 19:42	10° \mathbb{I} 58'31	-2°-19'-9
minimum elong	1981 Jun 21 17:18	0° \mathcal{E} 42'33	3°55'06	minimum elong	1982 Jun 01 13:23	11° \mathbb{I} 07'24	2°17'02
	1981 Jun 22 22:51	30° \mathbb{I}		min. Earth dist.	1982 Jun 02 00:48	10° \mathbb{I} 51'22	0.54905 AU
morning rise	1981 Jun 30 15:58	26° \mathbb{I} 39'24		morning rise	1982 Jun 10 16:17	7° \mathbb{I} 00'37	
direct	1981 Jul 03 12:58	26° \mathbb{I} 20'01		direct	1982 Jun 13 23:20	6° \mathbb{I} 37'02	
	1981 Jul 12 21:08	0° \mathcal{E}		morning max el	1982 Jun 26 13:34	12° \mathbb{I} 35'25	22°15'58
morning max el	1981 Jul 14 13:31	1° \mathcal{E} 26'31	20°43'51		1982 Jul 09 11:26	0° \mathcal{E}	
asc. node	1981 Jul 26 11:26	17° \mathcal{E} 52'09		asc. node	1982 Jul 13 08:30	7° \mathcal{E} 07'48	
	1981 Aug 01 18:30	0° Ω		morning set	1982 Jul 18 02:41	16° \mathcal{E} 44'06	
morning set	1981 Aug 02 16:36	1° Ω 52'56			1982 Jul 24 08:48	0° Ω	
superior conj	1981 Aug 10 06:01	17° Ω 31'09	1°44'40	superior conj	1982 Jul 25 08:17	2° Ω 04'15	1°37'34

minimum elong	1982 Jul 25 06:26	1°Ω54'32	1°37'25	minimum elong	1983 Jul 09 13:27	16°♄39'34	1°24'40
max. Earth dist.	1982 Jul 28 15:27	8°Ω57'08	1.34396 AU	max. Earth dist.	1983 Jul 11 16:51	21°♄15'49	1.33274 AU
evening rise	1982 Aug 02 08:43	18°Ω24'03		evening rise	1983 Jul 15 20:57	0°Ω	
	1982 Aug 08 14:06	0°♏			1983 Jul 17 02:49	2°Ω31'38	
desc. node	1982 Aug 20 15:55	19°♏40'18		desc. node	1983 Aug 01 10:22	0°♏	
	1982 Aug 28 03:22	0°♄			1983 Aug 07 12:55	9°♏03'24	
evening max el	1982 Sep 06 04:36	10°♄13'37	27°03'56	evening max el	1983 Aug 19 15:55	23°♏27'20	27°25'19
retrograde	1982 Sep 19 11:03	17°♄31'17		retrograde	1983 Aug 29 06:07	0°♄	
evening set	1982 Sep 26 07:09	14°♄48'40			1983 Sep 02 06:41	0°♄44'53	
min. Earth dist.	1982 Sep 30 04:57	10°♄59'23	0.65275 AU		1983 Sep 06 02:30	30°♏	
inferior conj	1982 Oct 02 05:28	8°♄41'43	-2°-20'-20	evening set	1983 Sep 09 10:26	28°♏05'57	
minimum elong	1982 Oct 02 09:12	8°♄31'04	2°18'55	min. Earth dist.	1983 Sep 13 02:40	24°♏51'05	0.63772 AU
morning rise	1982 Oct 08 12:55	3°♄04'08		inferior conj	1983 Sep 15 15:49	22°♏14'06	-3°-16'-56
asc. node	1982 Oct 09 07:41	2°♄44'49		minimum elong	1983 Sep 15 20:49	22°♏01'15	3°15'22
direct	1982 Oct 11 05:21	2°♄25'09		morning rise	1983 Sep 22 09:24	16°♏53'04	
morning max el	1982 Oct 17 17:55	5°♄56'20	18°10'38	direct	1983 Sep 24 20:49	16°♏22'51	
	1982 Nov 03 01:10	0°♌		asc. node	1983 Sep 26 04:45	16°♏31'44	
morning set	1982 Nov 05 03:50	3°♌28'39		morning max el	1983 Oct 01 10:04	19°♏48'27	17°53'25
desc. node	1982 Nov 16 15:12	22°♌06'41			1983 Oct 08 23:44	0°♄	
				morning set	1983 Oct 18 03:12	15°♄28'02	
superior conj	1982 Nov 19 18:23	27°♌05'45	0°-20'-55		1983 Oct 26 15:47	0°♌	
minimum elong	1982 Nov 19 15:42	26°♌55'08	0°20'33	superior conj	1983 Oct 30 16:29	6°♌40'29	0°25'44
	1982 Nov 21 14:28	0°♊		minimum elong	1983 Oct 30 19:12	6°♌51'38	0°25'21
max. Earth dist.	1982 Nov 22 18:13	1°♊49'22	1.45022 AU	desc. node	1983 Nov 03 12:15	12°♌53'19	
evening rise	1982 Dec 06 05:26	22°♊50'51		max. Earth dist.	1983 Nov 05 12:09	16°♌05'15	1.44236 AU
	1982 Dec 10 20:04	0°♋			1983 Nov 14 08:56	0°♊	
greatest brilliancy	1982 Dec 22 18:45	18°♋05'36	-0.7m	evening rise	1983 Nov 15 14:58	1°♊55'50	
evening max el	1982 Dec 30 19:23	28°♋20'29	19°36'10		1983 Dec 04 11:22	0°♋	
	1983 Jan 01 13:32	0°♌		greatest brilliancy	1983 Dec 08 01:05	4°♋52'08	-0.5m
asc. node	1983 Jan 05 06:58	2°♌16'04		evening max el	1983 Dec 13 21:32	11°♋50'53	20°37'24
retrograde	1983 Jan 07 03:00	2°♌34'34		retrograde	1983 Dec 22 00:53	16°♋39'15	
evening set	1983 Jan 10 14:14	1°♌24'09		asc. node	1983 Dec 23 04:00	16°♋32'06	
	1983 Jan 12 06:55	30°♋		evening set	1983 Dec 25 21:11	15°♋14'10	
inferior conj	1983 Jan 16 03:24	25°♋25'21	3°05'18	inferior conj	1983 Dec 31 07:41	9°♋03'04	2°30'52
minimum elong	1983 Jan 16 00:53	25°♋33'38	3°04'44	minimum elong	1983 Dec 31 05:05	9°♋11'56	2°30'04
min. Earth dist.	1983 Jan 17 06:35	23°♋56'10	0.66562 AU	min. Earth dist.	1983 Dec 31 21:47	8°♋14'56	0.67344 AU
morning rise	1983 Jan 21 10:48	19°♋10'55		morning rise	1984 Jan 05 12:31	2°♋47'55	
direct	1983 Jan 27 13:25	16°♋28'43		direct	1984 Jan 11 00:37	0°♋23'00	
morning max el	1983 Feb 08 20:02	23°♋46'45	25°43'11	morning max el	1984 Jan 22 04:26	7°♋02'17	24°19'21
desc. node	1983 Feb 12 14:22	27°♋51'59		desc. node	1984 Jan 30 11:26	16°♋42'37	
	1983 Feb 14 09:36	0°♌			1984 Feb 09 01:50	0°♌	
	1983 Mar 07 04:24	0°♋		morning set	1984 Feb 27 00:31	28°♌43'08	
morning set	1983 Mar 17 01:09	17°♋06'22			1984 Feb 27 18:07	0°♋	
max. Earth dist.	1983 Mar 20 21:12	24°♋16'29	1.35879 AU	max. Earth dist.	1984 Mar 01 18:20	5°♋21'07	1.37852 AU
	1983 Mar 23 20:09	0°♎					
superior conj	1983 Mar 26 11:26	5°♎14'18	-1°-14'-14	superior conj	1984 Mar 08 17:32	18°♋20'27	-1°-38'-33
minimum elong	1983 Mar 26 15:05	5°♎32'41	1°13'40	minimum elong	1984 Mar 08 21:49	18°♋41'05	1°38'04
evening rise	1983 Apr 03 12:22	21°♎38'45			1984 Mar 14 16:27	0°♎	
asc. node	1983 Apr 03 06:18	21°♎07'50		evening rise	1984 Mar 17 12:19	5°♎36'23	
	1983 Apr 07 17:04	0°♏		asc. node	1984 Mar 20 03:21	10°♎45'06	
evening max el	1983 Apr 21 07:59	20°♏32'32	20°04'07		1984 Mar 31 20:25	0°♏	
retrograde	1983 May 01 16:37	25°♏33'01		evening max el	1984 Apr 03 02:58	2°♏28'02	19°05'40
evening set	1983 May 03 17:19	25°♏22'20		retrograde	1984 Apr 11 20:24	6°♏41'50	
desc. node	1983 May 11 13:34	22°♏03'21		evening set	1984 Apr 13 23:36	6°♏27'42	
inferior conj	1983 May 12 16:37	21°♏23'07	0°-19'-41	inferior conj	1984 Apr 22 04:49	2°♏14'35	1°27'38
minimum elong	1983 May 12 15:42	21°♏24'28	0°19'22	minimum elong	1984 Apr 22 08:03	2°♏09'01	1°26'35
min. Earth dist.	1983 May 14 14:07	20°♏15'02	0.55322 AU	min. Earth dist.	1984 Apr 25 05:23	0°♏10'32	0.56614 AU
morning rise	1983 May 21 11:27	17°♏01'06			1984 Apr 25 11:49	30°♎	
direct	1983 May 25 12:48	16°♏25'08		desc. node	1984 Apr 27 10:35	28°♎47'57	
morning max el	1983 Jun 08 05:46	23°♏10'43	23°57'42	morning rise	1984 Apr 30 12:20	27°♎18'21	
	1983 Jun 14 08:06	0°♏		direct	1984 May 05 14:06	26°♎18'07	
asc. node	1983 Jun 30 05:34	26°♏45'26			1984 May 15 12:33	0°♏	
	1983 Jul 01 19:18	0°♄		morning max el	1984 May 19 20:17	3°♏37'59	25°35'23
morning set	1983 Jul 02 14:25	1°♄40'11			1984 Jun 07 15:45	0°♏	
				morning set	1984 Jun 16 02:07	16°♏35'54	
superior conj	1983 Jul 09 15:48	16°♄52'17	1°24'58	asc. node	1984 Jun 16 02:38	16°♏38'41	

	1984 Jun 22 06:39	0°☿		morning set	1985 May 31 12:08	1°♊25'31	
				asc. node	1985 Jun 02 23:41	6°♊41'58	
superior conj	1984 Jun 23 02:23	1°☿48'10	1°07'50				
minimum elong	1984 Jun 23 00:03	1°☿35'18	1°07'27	superior conj	1985 Jun 07 14:10	16°♊45'37	0°46'57
max. Earth dist.	1984 Jun 24 01:14	3°☿53'11	1.32548 AU	minimum elong	1985 Jun 07 12:17	16°♊35'14	0°46'36
evening rise	1984 Jun 30 04:58	17°☿02'13		max. Earth dist.	1985 Jun 07 13:08	16°♊39'55	1.32207 AU
	1984 Jul 06 18:56	0°♌			1985 Jun 13 16:11	0°☿	
desc. node	1984 Jul 24 09:56	27°♌41'40		evening rise	1985 Jun 14 12:28	1°☿47'13	
	1984 Jul 26 06:49	0°♍			1985 Jun 29 19:34	0°♌	
evening max el	1984 Jul 31 23:43	6°♍08'31	27°15'37	desc. node	1985 Jul 11 06:55	15°♌16'41	
retrograde	1984 Aug 14 19:34	13°♍23'36		evening max el	1985 Jul 14 01:27	18°♌06'13	26°32'49
evening set	1984 Aug 21 23:31	11°♍00'36		retrograde	1985 Jul 28 00:52	25°♌18'58	
min. Earth dist.	1984 Aug 25 13:48	8°♍12'39	0.61947 AU	evening set	1985 Aug 03 17:50	23°♌25'18	
inferior conj	1984 Aug 28 14:32	5°♍27'05	-4°-7'-25	min. Earth dist.	1985 Aug 07 14:50	20°♌49'39	0.59907 AU
minimum elong	1984 Aug 28 19:50	5°♍14'59	4°06'13	inferior conj	1985 Aug 10 22:08	18°♌11'56	-4°-44'-48
morning rise	1984 Sep 04 18:55	0°♍26'12		minimum elong	1985 Aug 11 01:52	18°♌04'29	4°44'22
direct	1984 Sep 07 04:02	0°♍01'46		morning rise	1985 Aug 18 13:15	13°♌33'49	
asc. node	1984 Sep 12 01:50	1°♍49'02		direct	1985 Aug 20 22:48	13°♌12'50	
morning max el	1984 Sep 14 01:15	3°♍30'05	17°54'28	morning max el	1985 Aug 28 12:19	16°♌53'20	18°14'56
morning set	1984 Sep 29 22:52	28°♍25'30		asc. node	1985 Aug 29 22:53	18°♌23'30	
	1984 Sep 30 19:44	0°♎			1985 Sep 06 19:39	0°♍	
				morning set	1985 Sep 13 09:14	12°♍05'31	
superior conj	1984 Oct 10 17:36	17°♎35'18	1°02'47				
minimum elong	1984 Oct 10 22:10	17°♎54'58	1°02'14	superior conj	1985 Sep 22 19:49	29°♍44'35	1°27'45
max. Earth dist.	1984 Oct 18 02:03	29°♎56'01	1.42830 AU	minimum elong	1985 Sep 22 23:34	0°♎01'33	1°27'25
	1984 Oct 18 03:01	0°♏			1985 Sep 22 23:13	0°♎	
desc. node	1984 Oct 20 09:16	3°♏40'22		max. Earth dist.	1985 Sep 30 10:11	13°♎06'41	1.40984 AU
evening rise	1984 Oct 25 02:35	11°♏10'59		evening rise	1985 Oct 05 07:39	21°♎16'08	
	1984 Nov 06 12:09	0°♐		desc. node	1985 Oct 07 06:17	24°♎24'57	
greatest brilliancy	1984 Nov 20 22:58	19°♐54'34	-0.4m		1985 Oct 10 18:50	0°♏	
evening max el	1984 Nov 25 17:55	25°♐21'27	21°49'47		1985 Oct 31 16:44	0°♐	
	1984 Dec 01 16:30	0°♑		greatest brilliancy	1985 Nov 02 08:34	2°♐04'50	-0.2m
retrograde	1984 Dec 04 21:46	0°♑48'37		evening max el	1985 Nov 08 09:29	8°♐54'31	23°08'40
	1984 Dec 07 21:46	30°♐		retrograde	1985 Nov 18 16:10	15°♐00'13	
evening set	1984 Dec 09 04:58	29°♐07'27		evening set	1985 Nov 23 11:59	13°♐02'07	
asc. node	1984 Dec 09 01:03	29°♐15'06		asc. node	1985 Nov 25 22:04	10°♐33'41	
inferior conj	1984 Dec 14 14:28	22°♐47'28	1°48'51	min. Earth dist.	1985 Nov 28 13:39	7°♐05'42	0.67815 AU
minimum elong	1984 Dec 14 12:16	22°♐55'03	1°48'02	inferior conj	1985 Nov 28 21:56	6°♐37'10	1°00'47
min. Earth dist.	1984 Dec 14 16:54	22°♐38'59	0.67751 AU	minimum elong	1985 Nov 28 20:34	6°♐41'53	1°00'13
morning rise	1984 Dec 19 19:21	16°♐33'21		morning rise	1985 Dec 04 05:11	0°♐26'11	
direct	1984 Dec 24 16:11	14°♐30'19			1985 Dec 04 19:23	30°♏	
morning max el	1985 Jan 03 14:15	20°♐22'59	22°50'47	direct	1985 Dec 08 11:23	28°♏45'58	
greatest brilliancy	1985 Jan 08 06:12	25°♐35'20	-0.3m		1985 Dec 12 11:05	0°♐	
	1985 Jan 11 18:25	0°♑		morning max el	1985 Dec 17 04:52	3°♐51'58	21°26'19
desc. node	1985 Jan 16 08:28	6°♑10'58		greatest brilliancy	1985 Dec 22 06:45	9°♐39'28	-0.4m
	1985 Feb 01 07:43	0°♒		desc. node	1986 Jan 03 05:31	26°♐06'59	
morning set	1985 Feb 06 21:20	9°♒00'17			1986 Jan 05 20:42	0°♑	
max. Earth dist.	1985 Feb 11 13:53	16°♒53'54	1.39998 AU	morning set	1986 Jan 17 13:08	17°♑55'27	
	1985 Feb 18 23:41	0°♓		max. Earth dist.	1986 Jan 24 14:12	29°♑17'17	1.42045 AU
					1986 Jan 25 00:33	0°♒	
superior conj	1985 Feb 19 07:49	0°♓37'03	-1°-56'-52				
minimum elong	1985 Feb 19 11:18	0°♓52'59	1°56'40	superior conj	1986 Feb 01 01:11	11°♒52'25	-2°-4'-55
evening rise	1985 Mar 01 02:59	19°♓01'38		minimum elong	1986 Feb 01 01:30	11°♒53'48	2°04'56
	1985 Mar 07 00:07	0°♔			1986 Feb 11 05:21	0°♓	
asc. node	1985 Mar 07 00:22	0°♔01'08		evening rise	1986 Feb 12 04:42	1°♓46'18	
evening max el	1985 Mar 17 06:54	14°♔57'37	18°27'27	asc. node	1986 Feb 21 21:23	18°♓49'03	
retrograde	1985 Mar 24 19:00	18°♔39'31		evening max el	1986 Feb 28 16:36	27°♓52'52	18°09'13
evening set	1985 Mar 27 03:38	18°♔18'40			1986 Mar 03 07:22	0°♔	
inferior conj	1985 Apr 03 14:05	13°♔45'48	2°43'35	retrograde	1986 Mar 07 10:56	1°♔18'51	
minimum elong	1985 Apr 03 17:59	13°♔37'55	2°42'38	evening set	1986 Mar 10 00:59	0°♔49'11	
min. Earth dist.	1985 Apr 07 00:33	11°♔00'55	0.58500 AU		1986 Mar 11 17:36	30°♓	
morning rise	1985 Apr 11 04:12	8°♔18'26		inferior conj	1986 Mar 16 19:34	25°♓55'10	3°26'35
desc. node	1985 Apr 14 07:37	7°♔05'30		minimum elong	1986 Mar 16 21:58	25°♓49'31	3°26'16
direct	1985 Apr 17 05:23	6°♔43'26		min. Earth dist.	1986 Mar 20 01:57	22°♓53'19	0.60637 AU
morning max el	1985 May 01 14:36	14°♔24'48	26°53'21	morning rise	1986 Mar 23 15:46	20°♓06'36	
	1985 May 14 02:10	0°♕		direct	1986 Mar 30 08:42	17°♓55'42	
	1985 May 30 19:44	0°♖		desc. node	1986 Apr 01 04:39	18°♓05'01	

morning max el	1986 Apr 13 14:55	25° Υ 48'20	27°39'27	morning rise	1987 Mar 05 22:44	2° Υ 34'21	
	1986 Apr 17 12:33	0° Υ			1987 Mar 11 21:55	30° \approx	
	1986 May 07 12:33	0° Υ		direct	1987 Mar 12 21:22	29° \approx 57'01	
morning set	1986 May 15 18:40	16° Υ 02'32			1987 Mar 13 21:09	0° Υ	
asc. node	1986 May 20 20:41	26° Υ 50'29		desc. node	1987 Mar 19 01:42	1° Υ 43'51	
max. Earth dist.	1986 May 22 00:44	29° Υ 23'20	1.32252 AU	morning max el	1987 Mar 26 20:44	7° Υ 52'45	27°48'30
	1986 May 22 07:26	0° Υ			1987 Apr 12 20:23	0° Υ	
					1987 Apr 29 15:39	0° Υ	
superior conj	1986 May 23 01:24	1° Υ 38'23	0°23'02	morning set	1987 Apr 29 19:36	0° Υ 19'55	
minimum elong	1986 May 23 00:22	1° Υ 32'45	0°22'49	max. Earth dist.	1987 May 05 08:19	11° Υ 51'00	1.32698 AU
evening rise	1986 May 29 23:05	16° Υ 38'57					
	1986 Jun 05 14:06	0° Υ		superior conj	1987 May 07 10:25	16° Υ 20'38	0°-3'-13
evening max el	1986 Jun 25 20:07	29° Υ 17'36	25°20'20	minimum elong	1987 May 07 10:34	16° Υ 21'29	0°03'12
	1986 Jun 26 14:15	0° Ω		behind sun begin	1987 May 07 05:27	15° Υ 53'47	
desc. node	1986 Jun 28 03:56	1° Ω 21'55		behind sun end	1987 May 07 15:41	16° Υ 49'12	
retrograde	1986 Jul 09 20:27	6° Ω 25'25		asc. node	1987 May 07 17:42	17° Υ 00'10	
evening set	1986 Jul 15 13:01	5° Ω 10'10			1987 May 13 17:50	0° Υ	
min. Earth dist.	1986 Jul 20 08:04	2° Ω 28'09	0.57876 AU	evening rise	1987 May 14 10:56	1° Υ 30'52	
inferior conj	1986 Jul 23 11:10	0° Ω 18'30	-4°-58'-6		1987 May 30 04:21	0° Υ	
minimum elong	1986 Jul 23 10:47	0° Ω 19'10	4°58'06	evening max el	1987 Jun 07 10:17	9° Υ 55'28	23°48'41
	1986 Jul 23 21:51	30° Υ		desc. node	1987 Jun 15 00:56	15° Υ 23'49	
morning rise	1986 Jul 31 12:15	26° Υ 03'01		retrograde	1987 Jun 21 03:44	16° Υ 48'39	
direct	1986 Aug 03 00:48	25° Υ 43'43		evening set	1987 Jun 25 09:49	16° Υ 08'51	
morning max el	1986 Aug 11 16:00	29° Υ 47'44	18°56'01	min. Earth dist.	1987 Jul 01 20:50	13° Υ 04'36	0.56171 AU
	1986 Aug 11 21:09	0° Ω		inferior conj	1987 Jul 04 04:03	11° Υ 40'48	-4°-33'-5
asc. node	1986 Aug 16 19:55	5° Ω 59'02		minimum elong	1987 Jul 03 22:19	11° Υ 49'32	4°32'13
morning set	1986 Aug 28 05:52	26° Ω 15'16		morning rise	1987 Jul 12 14:14	7° Υ 43'13	
	1986 Aug 30 03:28	0° Υ		direct	1987 Jul 15 07:51	7° Υ 24'11	
				morning max el	1987 Jul 25 09:32	12° Υ 04'18	19°58'27
superior conj	1986 Sep 05 17:32	12° Υ 51'17	1°41'29	asc. node	1987 Aug 03 16:58	24° Υ 22'15	
minimum elong	1986 Sep 05 19:26	13° Υ 00'22	1°41'23		1987 Aug 06 21:20	0° Ω	
max. Earth dist.	1986 Sep 12 14:08	25° Υ 33'34	1.38943 AU	morning set	1987 Aug 12 09:35	10° Ω 46'31	
	1986 Sep 15 02:28	0° Ω					
evening rise	1986 Sep 16 12:37	2° Ω 27'46		superior conj	1987 Aug 20 05:29	26° Ω 40'53	1°45'46
desc. node	1986 Sep 24 03:18	15° Ω 02'30		minimum elong	1987 Aug 20 05:34	26° Ω 41'17	1°45'45
	1986 Oct 04 00:19	0° Υ			1987 Aug 21 21:36	0° Υ	
evening max el	1986 Oct 21 22:17	22° Υ 31'33	24°28'08	max. Earth dist.	1987 Aug 25 19:03	7° Υ 31'47	1.36960 AU
retrograde	1986 Nov 02 06:47	29° Υ 09'44		evening rise	1987 Aug 29 16:19	14° Υ 43'33	
evening set	1986 Nov 07 16:34	26° Υ 54'54			1987 Sep 07 13:52	0° Ω	
min. Earth dist.	1986 Nov 12 09:32	21° Υ 32'11	0.67545 AU	desc. node	1987 Sep 11 00:18	5° Ω 28'22	
inferior conj	1986 Nov 13 04:19	20° Υ 29'21	0°07'56		1987 Sep 28 17:21	0° Υ	
minimum elong	1986 Nov 13 04:07	20° Υ 30'00	0°07'51	evening max el	1987 Oct 04 10:22	6° Υ 11'44	25°40'58
transit begin	1986 Nov 13 01:43	20° Υ 38'02		retrograde	1987 Oct 16 16:46	13° Υ 12'47	
transit end	1986 Nov 13 06:31	20° Υ 21'58		evening set	1987 Oct 22 17:02	10° Υ 43'00	
asc. node	1986 Nov 12 19:06	21° Υ 00'13		min. Earth dist.	1987 Oct 27 02:09	5° Υ 55'54	0.66940 AU
morning rise	1986 Nov 18 16:02	14° Υ 23'59		inferior conj	1987 Oct 28 07:50	4° Υ 21'20	0°-48'-24
direct	1986 Nov 22 09:02	13° Υ 05'07		minimum elong	1987 Oct 28 09:05	4° Υ 17'20	0°47'53
morning max el	1986 Nov 30 02:49	17° Υ 31'19	20°12'19	asc. node	1987 Oct 30 16:09	1° Υ 28'57	
greatest brilliancy	1986 Dec 06 21:03	25° Υ 39'05	-0.6m		1987 Nov 01 01:57	30° Ω	
	1986 Dec 10 00:34	0° Υ		morning rise	1987 Nov 03 01:55	28° Ω 24'28	
desc. node	1986 Dec 21 02:34	16° Υ 22'43		direct	1987 Nov 06 07:39	27° Ω 23'59	
morning set	1986 Dec 27 10:12	26° Υ 03'31			1987 Nov 11 21:57	0° Υ	
	1986 Dec 29 23:09	0° Υ		morning max el	1987 Nov 13 08:30	1° Υ 20'42	19°12'27
max. Earth dist.	1987 Jan 06 22:26	12° Υ 35'00	1.43714 AU	greatest brilliancy	1987 Nov 24 01:22	15° Υ 26'13	-0.7m
					1987 Dec 03 13:33	0° Υ	
superior conj	1987 Jan 12 17:06	21° Υ 57'28	-1°-57'-40	morning set	1987 Dec 06 12:54	4° Υ 37'21	
minimum elong	1987 Jan 12 12:05	21° Υ 36'52	1°57'27	desc. node	1987 Dec 07 23:36	6° Υ 52'26	
	1987 Jan 17 13:08	0° \approx		max. Earth dist.	1987 Dec 20 13:41	26° Υ 34'36	1.44791 AU
evening rise	1987 Jan 25 13:18	13° \approx 42'15			1987 Dec 22 17:40	0° Υ	
	1987 Feb 04 02:31	0° Υ					
asc. node	1987 Feb 08 18:23	7° Υ 00'15		superior conj	1987 Dec 23 07:52	0° Υ 56'17	-1°-31'-33
evening max el	1987 Feb 12 04:59	11° Υ 05'32	18°10'21	minimum elong	1987 Dec 22 23:05	0° Υ 21'28	1°30'43
retrograde	1987 Feb 18 16:07	14° Υ 30'07		evening rise	1988 Jan 07 00:39	24° Υ 42'55	
evening set	1987 Feb 21 11:17	13° Υ 50'21			1988 Jan 10 05:28	0° \approx	
inferior conj	1987 Feb 27 17:40	8° Υ 35'38	3°42'51	evening max el	1988 Jan 26 17:12	24° \approx 28'08	18°30'02
minimum elong	1987 Feb 27 18:05	8° Υ 34'32	3°42'51	asc. node	1988 Jan 26 15:25	24° \approx 23'37	
min. Earth dist.	1987 Mar 02 11:42	5° Υ 41'22	0.62711 AU	retrograde	1988 Feb 02 06:18	28° \approx 03'58	

evening set	1988 Feb 05 06:49	27° \approx 13'11		inferior conj	1989 Jan 25 00:10	5° \approx 00'09	3°21'00
inferior conj	1988 Feb 11 04:23	21° \approx 39'14	3°39'14	minimum elong	1989 Jan 24 21:57	5° \approx 07'13	3°20'36
minimum elong	1988 Feb 11 03:10	21° \approx 42'49	3°39'08	min. Earth dist.	1989 Jan 26 11:28	3° \approx 08'06	0.65929 AU
min. Earth dist.	1988 Feb 13 06:57	19° \approx 10'57	0.64510 AU		1989 Jan 29 04:06	30° \approx	
morning rise	1988 Feb 16 22:08	15° \approx 30'26		morning rise	1989 Jan 30 10:22	28° \approx 46'56	
direct	1988 Feb 23 17:30	12° \approx 40'50		direct	1989 Feb 05 20:07	25° \approx 58'54	
desc. node	1988 Mar 04 22:46	17° \approx 28'38			1989 Feb 14 18:11	0° \approx	
morning max el	1988 Mar 08 05:52	20° \approx 31'21	27°21'47	morning max el	1989 Feb 18 15:46	3° \approx 33'07	26°25'28
	1988 Mar 16 10:09	0° \approx		desc. node	1989 Feb 19 19:50	4° \approx 45'32	
	1988 Apr 04 22:04	0° \approx			1989 Mar 10 18:07	0° \approx	
morning set	1988 Apr 12 12:10	14° \approx 08'03		morning set	1989 Mar 26 16:47	27° \approx 16'41	
max. Earth dist.	1988 Apr 17 07:55	23° \approx 50'06	1.33577 AU		1989 Mar 28 03:16	0° \approx	
	1988 Apr 20 06:42	0° \approx		max. Earth dist.	1989 Mar 30 20:30	5° \approx 16'17	1.34913 AU
superior conj	1988 Apr 20 15:14	0° \approx 45'07	0°-30'-53	superior conj	1989 Apr 04 13:36	14° \approx 45'29	0°-58'-46
minimum elong	1988 Apr 20 16:47	0° \approx 53'19	0°30'35	minimum elong	1989 Apr 04 16:34	15° \approx 00'42	0°58'15
asc. node	1988 Apr 23 14:44	7° \approx 06'05		asc. node	1989 Apr 10 11:48	27° \approx 04'26	
evening rise	1988 Apr 27 22:06	16° \approx 15'32			1989 Apr 11 21:36	0° \approx	
	1988 May 04 19:40	0° \approx		evening rise	1989 Apr 12 06:42	0° \approx 47'04	
evening max el	1988 May 19 02:10	20° \approx 25'51	22°12'52		1989 Apr 29 19:53	0° \approx	
retrograde	1988 May 31 22:43	26° \approx 47'01		evening max el	1989 May 01 02:53	1° \approx 19'17	20°46'20
desc. node	1988 May 31 21:57	26° \approx 47'01		retrograde	1989 May 12 11:52	6° \approx 15'20	
evening set	1988 Jun 03 20:10	26° \approx 28'29		evening set	1989 May 14 15:12	6° \approx 14'20	
min. Earth dist.	1988 Jun 12 08:15	22° \approx 49'11	0.55115 AU	desc. node	1989 May 18 19:00	5° \approx 23'02	
inferior conj	1988 Jun 13 03:55	22° \approx 21'31	-3°-20'-8	inferior conj	1989 May 23 21:35	2° \approx 42'41	-1°-29'00
minimum elong	1988 Jun 12 20:03	22° \approx 32'35	3°17'56	minimum elong	1989 May 23 17:23	2° \approx 48'41	1°27'30
morning rise	1988 Jun 21 21:55	18° \approx 29'41		min. Earth dist.	1989 May 24 20:39	2° \approx 09'44	0.54962 AU
direct	1988 Jun 24 22:40	18° \approx 09'04			1989 May 28 22:53	30° \approx	
morning max el	1988 Jul 06 15:34	23° \approx 36'39	21°21'12	morning rise	1989 Jun 01 18:36	28° \approx 36'41	
	1988 Jul 12 06:42	0° \approx		direct	1989 Jun 05 08:07	28° \approx 09'22	
asc. node	1988 Jul 20 14:02	13° \approx 21'14			1989 Jun 12 08:56	0° \approx	
morning set	1988 Jul 26 17:56	25° \approx 32'08		morning max el	1989 Jun 18 11:43	4° \approx 28'46	22°58'57
	1988 Jul 28 21:19	0° \approx			1989 Jul 06 00:55	0° \approx	
superior conj	1988 Aug 03 03:29	11° \approx 00'54	1°42'23	asc. node	1989 Jul 07 11:05	2° \approx 46'46	
minimum elong	1988 Aug 03 02:11	10° \approx 54'11	1°42'19	morning set	1989 Jul 11 04:53	10° \approx 25'51	
max. Earth dist.	1988 Aug 07 06:11	19° \approx 24'20	1.35227 AU	superior conj	1989 Jul 18 08:16	25° \approx 41'12	1°32'49
evening rise	1988 Aug 11 14:23	27° \approx 52'22		minimum elong	1989 Jul 18 06:09	25° \approx 29'52	1°32'37
	1988 Aug 12 17:29	0° \approx			1989 Jul 20 09:04	0° \approx	
desc. node	1988 Aug 27 21:19	25° \approx 36'48		max. Earth dist.	1989 Jul 21 02:14	1° \approx 30'04	1.33862 AU
	1988 Aug 30 20:25	0° \approx		evening rise	1989 Jul 26 02:17	11° \approx 41'34	
evening max el	1988 Sep 15 22:35	19° \approx 49'27	26°39'32		1989 Aug 05 00:54	0° \approx	
retrograde	1988 Sep 28 21:37	27° \approx 03'31		desc. node	1989 Aug 14 18:20	15° \approx 19'37	
evening set	1988 Oct 05 11:24	24° \approx 23'17			1989 Aug 26 06:14	0° \approx	
min. Earth dist.	1988 Oct 09 13:06	20° \approx 13'12	0.65988 AU	evening max el	1989 Aug 29 10:29	3° \approx 14'53	27°16'29
inferior conj	1988 Oct 11 06:33	18° \approx 09'51	-1°-46'-41	retrograde	1989 Sep 11 20:57	10° \approx 33'38	
minimum elong	1988 Oct 11 09:24	18° \approx 01'22	1°45'32	evening set	1989 Sep 18 21:07	7° \approx 50'49	
asc. node	1988 Oct 16 13:14	12° \approx 53'47		min. Earth dist.	1989 Sep 22 16:08	4° \approx 17'05	0.64678 AU
morning rise	1988 Oct 17 08:44	12° \approx 24'33		inferior conj	1989 Sep 24 22:11	1° \approx 49'50	-2°-44'-46
direct	1988 Oct 20 05:22	11° \approx 38'50		minimum elong	1989 Sep 25 02:32	1° \approx 37'59	2°43'15
morning max el	1988 Oct 26 20:23	15° \approx 16'26	18°28'26		1989 Sep 26 15:28	30° \approx	
	1988 Nov 06 14:57	0° \approx		morning rise	1989 Oct 01 09:52	26° \approx 19'13	
morning set	1988 Nov 15 16:46	14° \approx 29'54		asc. node	1989 Oct 03 10:19	25° \approx 46'07	
desc. node	1988 Nov 23 20:38	27° \approx 31'46		direct	1989 Oct 03 23:48	25° \approx 44'28	
	1988 Nov 25 10:04	0° \approx		morning max el	1989 Oct 10 11:52	29° \approx 12'13	18°01'09
superior conj	1988 Dec 01 09:23	9° \approx 24'36	0°-48'-59		1989 Oct 11 06:11	0° \approx	
minimum elong	1988 Dec 01 03:08	9° \approx 00'04	0°48'12	morning set	1989 Oct 28 01:30	25° \approx 47'00	
max. Earth dist.	1988 Dec 02 08:33	10° \approx 55'35	1.45151 AU		1989 Oct 30 13:53	0° \approx	
	1988 Dec 14 11:53	0° \approx		superior conj	1989 Nov 10 18:56	18° \approx 21'49	0°00'-21
evening rise	1988 Dec 17 12:39	4° \approx 47'07		minimum elong	1989 Nov 10 18:53	18° \approx 21'36	0°00'21
greatest brilliancy	1988 Dec 29 11:13	23° \approx 31'59	-0.7m	behind sun begin	1989 Nov 10 08:24	17° \approx 39'31	
	1989 Jan 02 19:41	0° \approx		behind sun end	1989 Nov 11 05:22	19° \approx 03'37	
evening max el	1989 Jan 09 02:50	7° \approx 55'55	19°07'18	desc. node	1989 Nov 10 17:39	18° \approx 16'38	
asc. node	1989 Jan 12 12:29	10° \approx 45'59		max. Earth dist.	1989 Nov 15 03:18	25° \approx 17'09	1.44770 AU
retrograde	1989 Jan 16 01:45	11° \approx 53'45			1989 Nov 18 03:10	0° \approx	
evening set	1989 Jan 19 08:38	10° \approx 50'53		evening rise	1989 Nov 27 04:36	14° \approx 04'52	

	1989 Dec 07 14:30	0°☿			1990 Dec 02 00:13	0°☿	
greatest brilliancy	1989 Dec 16 09:14	12°☿49'36	-0.6m	evening max el	1990 Dec 06 07:39	4°☿55'50	21°07'02
evening max el	1989 Dec 23 07:58	21°☿25'17	20°00'33	retrograde	1990 Dec 14 21:09	10°☿00'32	
asc. node	1989 Dec 30 09:34	25°☿51'49		asc. node	1990 Dec 17 06:36	9°☿28'39	
retrograde	1989 Dec 30 23:29	25°☿53'42		evening set	1990 Dec 18 21:46	8°☿29'01	
evening set	1990 Jan 03 14:16	24°☿37'20		inferior conj	1990 Dec 24 07:39	2°☿13'48	2°13'51
inferior conj	1990 Jan 09 02:04	18°☿32'43	2°51'44	minimum elong	1990 Dec 24 05:10	2°☿22'20	2°13'01
minimum elong	1990 Jan 08 23:26	18°☿41'30	2°51'02	min. Earth dist.	1990 Dec 24 16:45	1°☿42'29	0.67567 AU
min. Earth dist.	1990 Jan 09 23:30	17°☿20'58	0.66941 AU		1990 Dec 25 22:57	30°♁	
morning rise	1990 Jan 14 08:00	12°☿17'29		morning rise	1990 Dec 29 12:12	25°♁58'38	
direct	1990 Jan 20 04:31	9°☿41'50		direct	1991 Jan 03 17:51	23°♁42'26	
morning max el	1990 Feb 01 00:39	16°☿45'38	25°08'38		1991 Jan 14 08:02	0°☿	
desc. node	1990 Feb 06 16:52	23°☿07'27		morning max el	1991 Jan 14 09:07	0°☿02'44	23°41'28
	1990 Feb 12 01:11	0°♁		desc. node	1991 Jan 24 13:54	12°☿15'42	
	1990 Mar 03 17:14	0°♁			1991 Feb 05 22:20	0°♁	
morning set	1990 Mar 09 04:33	9°♁31'50		morning set	1991 Feb 18 17:16	20°♁36'14	
max. Earth dist.	1990 Mar 12 21:38	16°♁18'51	1.36678 AU	max. Earth dist.	1991 Feb 22 16:30	27°♁28'42	1.38757 AU
					1991 Feb 24 02:35	0°♁	
superior conj	1990 Mar 19 02:39	28°♁13'58	-1°-25'-5	superior conj	1991 Mar 02 02:35	11°♁00'26	-1°-47'-18
minimum elong	1990 Mar 19 06:42	28°♁33'56	1°24'31	minimum elong	1991 Mar 02 06:46	11°♁20'07	1°46'55
	1990 Mar 20 00:04	0°♁		evening rise	1991 Mar 11 06:53	28°♁43'18	
evening rise	1990 Mar 27 10:32	14°♁58'53			1991 Mar 11 22:40	0°♁	
asc. node	1990 Mar 28 08:51	16°♁50'52		asc. node	1991 Mar 15 05:54	6°♁19'45	
	1990 Apr 04 07:35	0°♁		evening max el	1991 Mar 27 14:46	25°♁03'35	18°47'01
evening max el	1990 Apr 13 15:31	12°♁52'16	19°36'51	retrograde	1991 Apr 04 18:09	29°♁01'22	
retrograde	1990 Apr 23 06:55	17°♁31'35		evening set	1991 Apr 06 23:39	28°♁44'41	
evening set	1990 Apr 25 07:41	17°♁20'05		inferior conj	1991 Apr 14 20:42	24°♁23'54	2°04'07
inferior conj	1990 May 03 23:49	13°♁16'25	0°28'57	minimum elong	1991 Apr 15 00:36	24°♁16'42	2°02'58
minimum elong	1990 May 04 01:04	13°♁14'26	0°28'30	min. Earth dist.	1991 Apr 18 03:45	21°♁59'46	0.57362 AU
desc. node	1990 May 05 16:01	12°♁12'40		morning rise	1991 Apr 22 21:12	19°♁13'35	
min. Earth dist.	1990 May 06 10:59	11°♁43'06	0.55769 AU	desc. node	1991 Apr 22 13:03	19°♁22'48	
morning rise	1990 May 12 14:49	8°♁39'46		direct	1991 Apr 28 09:49	17°♁59'01	
direct	1990 May 17 02:02	7°♁55'01		morning max el	1991 May 12 17:56	25°♁29'42	26°11'49
morning max el	1990 May 31 02:34	14°♁57'57	24°40'47		1991 May 16 22:45	0°♁	
	1990 Jun 12 00:29	0°♁			1991 Jun 05 02:24	0°♁	
asc. node	1990 Jun 24 08:07	22°♁31'50		morning set	1991 Jun 10 03:56	10°♁16'03	
morning set	1990 Jun 25 16:47	25°♁22'40		asc. node	1991 Jun 11 05:09	12°♁29'41	
	1990 Jun 27 20:46	0°♁					
superior conj	1990 Jul 02 17:21	10°♁33'56	1°18'13	superior conj	1991 Jun 17 04:38	25°♁31'06	0°59'25
minimum elong	1990 Jul 02 14:57	10°♁20'49	1°17'52	minimum elong	1991 Jun 17 02:25	25°♁18'58	0°59'01
max. Earth dist.	1990 Jul 04 06:45	13°♁56'41	1.32907 AU	max. Earth dist.	1991 Jun 17 16:57	26°♁38'47	1.32353 AU
evening rise	1990 Jul 10 00:11	26°♁00'29			1991 Jun 19 05:40	0°♁	
	1990 Jul 11 23:48	0°♁		evening rise	1991 Jun 24 04:53	10°♁38'13	
	1990 Jul 29 11:10	0°♁			1991 Jul 04 06:05	0°♁	
desc. node	1990 Aug 01 15:20	4°♁26'06		desc. node	1991 Jul 19 12:21	22°♁40'08	
evening max el	1990 Aug 11 20:32	16°♁16'31	27°25'17	evening max el	1991 Jul 25 02:11	28°♁40'42	27°01'34
retrograde	1990 Aug 25 14:08	23°♁34'04			1991 Jul 26 13:00	0°♁	
evening set	1990 Sep 01 18:56	21°♁00'11		retrograde	1991 Aug 07 23:58	5°♁54'31	
min. Earth dist.	1990 Sep 05 09:34	17°♁58'01	0.63024 AU	evening set	1991 Aug 15 00:35	3°♁42'51	
inferior conj	1990 Sep 08 04:00	15°♁15'27	-3°-39'-26	min. Earth dist.	1991 Aug 18 16:28	1°♁01'55	0.61092 AU
minimum elong	1990 Sep 08 09:17	15°♁02'29	3°37'58		1991 Aug 19 21:40	30°♁	
morning rise	1990 Sep 15 02:09	10°♁02'41		inferior conj	1991 Aug 21 20:42	28°♁17'37	-4°-25'-28
direct	1990 Sep 17 12:06	9°♁35'25		minimum elong	1991 Aug 22 01:37	28°♁06'58	4°24'34
asc. node	1990 Sep 20 07:21	10°♁12'59		morning rise	1991 Aug 29 05:40	23°♁25'49	
morning max el	1990 Sep 24 04:01	13°♁01'27	17°51'33	direct	1991 Aug 31 14:35	23°♁03'06	
	1990 Oct 05 17:44	0°♁		asc. node	1991 Sep 07 04:22	26°♁04'23	
morning set	1990 Oct 10 10:19	8°♁13'44		morning max el	1991 Sep 07 17:43	26°♁35'43	18°00'41
					1991 Sep 10 17:14	0°♁	
superior conj	1990 Oct 22 04:21	28°♁30'42	0°42'51	morning set	1991 Sep 23 12:52	21°♁31'03	
minimum elong	1990 Oct 22 08:18	28°♁47'11	0°42'19		1991 Sep 28 03:26	0°♁	
	1990 Oct 23 01:46	0°♁		superior conj	1991 Oct 03 16:40	9°♁58'21	1°14'51
max. Earth dist.	1990 Oct 28 19:16	9°♁22'40	1.43708 AU	minimum elong	1991 Oct 03 21:06	10°♁17'53	1°14'21
desc. node	1990 Oct 28 14:41	9°♁04'11		max. Earth dist.	1991 Oct 11 06:46	22°♁57'40	1.42091 AU
evening rise	1990 Nov 06 12:52	23°♁09'01		desc. node	1991 Oct 15 11:42	29°♁50'41	
	1990 Nov 11 00:06	0°♁			1991 Oct 15 14:01	0°♁	
greatest brilliancy	1990 Dec 01 01:12	28°♁47'33	-0.4m				

evening rise	1991 Oct 17 06:31	2°♁42'10		evening rise	1992 Sep 26 21:25	13°♁14'06	
	1991 Nov 04 10:41	0°♁		desc. node	1992 Oct 01 08:43	20°♁32'27	
greatest brilliancy	1991 Nov 14 08:11	13°♁08'35	-0.3m		1992 Oct 07 10:13	0°♁	
evening max el	1991 Nov 19 01:59	18°♁28'13	22°22'53		1992 Oct 29 17:02	0°♁	
retrograde	1991 Nov 28 17:01	24°♁11'31		evening max el	1992 Oct 31 16:08	2°♁02'50	23°42'50
evening set	1991 Dec 03 05:24	22°♁23'20		retrograde	1992 Nov 11 09:49	8°♁22'49	
asc. node	1991 Dec 04 03:37	21°♁33'51		evening set	1992 Nov 16 11:35	6°♁17'18	
inferior conj	1991 Dec 08 14:58	16°♁01'01	1°29'08	asc. node	1992 Nov 20 00:38	2°♁24'33	
minimum elong	1991 Dec 08 13:04	16°♁07'34	1°28'24	min. Earth dist.	1992 Nov 21 09:22	0°♁35'19	0.67742 AU
min. Earth dist.	1991 Dec 08 12:49	16°♁08'25	0.67827 AU	inferior conj	1992 Nov 21 22:09	29°♁51'43	0°38'52
morning rise	1991 Dec 13 20:36	9°♁48'02		minimum elong	1992 Nov 21 21:15	29°♁54'49	0°38'29
direct	1991 Dec 18 11:12	7°♁54'32			1992 Nov 21 19:44	30°♁	
morning max el	1991 Dec 27 20:26	13°♁26'18	22°13'51	morning rise	1992 Nov 27 07:05	23°♁43'06	
greatest brilliancy	1992 Jan 01 11:01	18°♁36'12	-0.3m	direct	1992 Dec 01 07:30	22°♁12'18	
	1992 Jan 10 01:46	0°♁		morning max el	1992 Dec 09 14:03	26°♁59'45	20°53'23
desc. node	1992 Jan 11 10:57	1°♁57'15			1992 Dec 12 08:05	0°♁	
	1992 Jan 29 21:15	0°♁		greatest brilliancy	1992 Dec 15 05:44	3°♁34'00	-0.5m
morning set	1992 Jan 30 01:34	0°♁17'29		desc. node	1992 Dec 28 07:58	22°♁02'21	
max. Earth dist.	1992 Feb 04 13:44	9°♁22'56	1.40905 AU		1993 Jan 02 14:47	0°♁	
				morning set	1993 Jan 08 07:13	8°♁45'54	
superior conj	1992 Feb 12 08:43	22°♁53'23	-2°-1'-49	max. Earth dist.	1993 Jan 16 18:04	22°♁13'11	1.42821 AU
minimum elong	1992 Feb 12 11:12	23°♁04'24	2°01'45		1993 Jan 21 11:25	0°♁	
	1992 Feb 16 07:04	0°♁					
evening rise	1992 Feb 22 16:34	11°♁52'44		superior conj	1993 Jan 23 15:42	3°♁39'38	-2°-4'00
asc. node	1992 Mar 01 02:55	25°♁25'03		minimum elong	1993 Jan 23 13:54	3°♁32'02	2°03'59
	1992 Mar 03 21:45	0°♁		evening rise	1993 Feb 04 11:35	24°♁18'07	
evening max el	1992 Mar 09 21:37	7°♁45'42	18°17'16		1993 Feb 07 16:19	0°♁	
retrograde	1992 Mar 17 00:32	11°♁18'42		asc. node	1993 Feb 15 23:57	13°♁58'35	
evening set	1992 Mar 19 11:42	10°♁54'08		evening max el	1993 Feb 21 08:47	20°♁49'01	18°07'16
inferior conj	1992 Mar 26 14:55	6°♁12'05	3°05'32	retrograde	1993 Feb 27 22:54	24°♁12'58	
minimum elong	1992 Mar 26 18:21	6°♁04'42	3°04'52	evening set	1993 Mar 02 15:06	23°♁39'07	
min. Earth dist.	1992 Mar 30 00:59	3°♁17'08	0.59404 AU	inferior conj	1993 Mar 09 04:01	18°♁35'48	3°36'17
morning rise	1992 Apr 02 21:17	0°♁34'48		minimum elong	1993 Mar 09 05:34	18°♁31'56	3°36'10
	1992 Apr 03 23:52	30°♁		min. Earth dist.	1993 Mar 12 05:38	15°♁34'41	0.61545 AU
desc. node	1992 Apr 08 10:05	28°♁46'07		morning rise	1993 Mar 15 17:20	12°♁40'48	
direct	1992 Apr 09 06:26	28°♁44'10		direct	1993 Mar 22 13:44	10°♁17'30	
	1992 Apr 14 17:35	0°♁		desc. node	1993 Mar 26 07:08	10°♁56'14	
morning max el	1992 Apr 23 14:35	6°♁30'23	27°17'21	morning max el	1993 Apr 05 17:40	18°♁12'05	27°47'55
	1992 May 11 04:10	0°♁			1993 Apr 15 15:18	0°♁	
morning set	1992 May 24 12:40	25°♁00'50			1993 May 03 21:54	0°♁	
	1992 May 26 21:16	0°♁		morning set	1993 May 08 17:07	9°♁30'13	
asc. node	1992 May 28 02:11	2°♁35'39		max. Earth dist.	1993 May 14 15:52	22°♁05'00	1.32395 AU
max. Earth dist.	1992 May 31 05:20	9°♁26'16	1.32184 AU	asc. node	1993 May 14 23:14	22°♁44'58	
superior conj	1992 May 31 16:21	10°♁26'54	0°37'09	superior conj	1993 May 16 02:51	25°♁15'24	0°12'08
minimum elong	1992 May 31 14:47	10°♁18'16	0°36'50	minimum elong	1993 May 16 02:17	25°♁12'20	0°12'01
evening rise	1992 Jun 07 13:58	25°♁26'54		behind sun begin	1993 May 15 22:56	24°♁54'00	
	1992 Jun 09 18:27	0°♁		behind sun end	1993 May 16 05:39	25°♁30'41	
	1992 Jun 27 05:11	0°♁			1993 May 18 06:53	0°♁	
desc. node	1992 Jul 05 09:21	9°♁40'18		evening rise	1993 May 23 01:21	10°♁19'08	
evening max el	1992 Jul 06 01:01	10°♁18'17	26°05'08		1993 Jun 02 03:54	0°♁	
retrograde	1992 Jul 20 00:54	17°♁28'32		evening max el	1993 Jun 17 16:59	21°♁11'45	24°42'44
evening set	1992 Jul 26 09:19	15°♁50'44		desc. node	1993 Jun 22 06:22	24°♁57'19	
min. Earth dist.	1992 Jul 30 13:37	13°♁14'46	0.59030 AU	retrograde	1993 Jul 01 15:29	28°♁15'26	
inferior conj	1992 Aug 02 20:43	10°♁46'48	-4°-54'-13	evening set	1993 Jul 06 18:22	27°♁16'08	
minimum elong	1992 Aug 02 23:00	10°♁42'29	4°54'04	min. Earth dist.	1993 Jul 12 04:11	24°♁26'30	0.57089 AU
morning rise	1992 Aug 10 16:09	6°♁18'19		inferior conj	1993 Jul 15 01:08	22°♁34'22	-4°-52'-59
direct	1992 Aug 13 02:53	5°♁58'04		minimum elong	1993 Jul 14 22:26	22°♁38'48	4°52'48
morning max el	1992 Aug 21 01:54	9°♁46'50	18°29'50	morning rise	1993 Jul 23 06:14	18°♁27'55	
asc. node	1992 Aug 24 01:24	13°♁05'55		direct	1993 Jul 25 20:50	18°♁08'52	
	1992 Sep 03 08:03	0°♁		morning max el	1993 Aug 04 01:36	22°♁26'12	19°20'06
morning set	1992 Sep 06 04:01	5°♁24'34			1993 Aug 10 05:51	0°♁	
				asc. node	1993 Aug 10 22:27	1°♁03'07	
superior conj	1992 Sep 15 03:48	22°♁33'21	1°34'52	morning set	1993 Aug 21 04:01	19°♁44'25	
minimum elong	1992 Sep 15 06:48	22°♁47'17	1°34'38		1993 Aug 26 07:06	0°♁	
	1992 Sep 19 05:41	0°♁					
max. Earth dist.	1992 Sep 22 13:15	5°♁50'56	1.40126 AU	superior conj	1993 Aug 29 08:12	6°♁00'20	1°44'21

minimum elong	1993 Aug 29 09:17	6°♄05'40	1°44'18	morning max el	1994 Jul 17 14:24	4°♄24'40	20°31'29
max. Earth dist.	1993 Sep 04 16:54	18°♄03'07	1.38070 AU	asc. node	1994 Jul 28 19:31	19°♄42'35	
evening rise	1993 Sep 08 12:27	24°♄53'46			1994 Aug 03 06:09	0°♄	
	1993 Sep 11 11:18	0°♄		morning set	1994 Aug 05 09:57	4°♄22'08	
desc. node	1993 Sep 18 05:43	11°♄05'40					
	1993 Oct 01 02:09	0°♄		superior conj	1994 Aug 13 00:54	20°♄04'12	1°45'10
evening max el	1993 Oct 14 04:14	15°♄40'57	25°00'20	minimum elong	1994 Aug 13 00:20	20°♄01'19	1°45'09
retrograde	1993 Oct 25 22:40	22°♄30'42		max. Earth dist.	1994 Aug 17 23:27	29°♄53'49	1.36173 AU
evening set	1993 Oct 31 14:41	20°♄08'49			1994 Aug 18 00:44	0°♄	
min. Earth dist.	1993 Nov 05 04:07	15°♄01'14	0.67325 AU	evening rise	1994 Aug 22 00:33	7°♄33'34	
inferior conj	1993 Nov 06 03:33	13°♄44'13	0°-15'-36		1994 Sep 04 04:55	0°♄	
minimum elong	1993 Nov 06 03:57	13°♄42'56	0°15'27	desc. node	1994 Sep 05 02:44	1°♄24'42	
transit begin	1993 Nov 06 03:06	13°♄45'42		evening max el	1994 Sep 26 16:12	29°♄20'19	26°08'07
transit end	1993 Nov 06 04:47	13°♄40'09			1994 Sep 27 08:51	0°♄	
asc. node	1993 Nov 06 21:40	12°♄45'01		retrograde	1994 Oct 09 06:44	6°♄28'57	
morning rise	1993 Nov 11 17:46	7°♄42'19		evening set	1994 Oct 15 12:50	3°♄53'58	
direct	1993 Nov 15 05:39	6°♄31'53			1994 Oct 19 06:19	30°♄	
morning max el	1993 Nov 22 15:31	10°♄44'24	19°45'06	min. Earth dist.	1994 Oct 19 18:41	29°♄22'23	0.66571 AU
greatest brilliancy	1993 Nov 30 11:37	20°♄27'12	-0.6m	inferior conj	1994 Oct 21 05:17	27°♄34'57	-1°-12'-59
	1993 Dec 07 01:04	0°♄		minimum elong	1994 Oct 21 07:12	27°♄28'59	1°12'11
desc. node	1993 Dec 15 05:01	12°♄24'39		asc. node	1994 Oct 24 18:44	23°♄31'31	
morning set	1993 Dec 18 03:31	16°♄56'12		morning rise	1994 Oct 27 02:36	21°♄42'32	
	1993 Dec 26 12:47	0°♄		direct	1994 Oct 30 04:05	20°♄48'54	
max. Earth dist.	1993 Dec 30 05:29	5°♄50'31	1.44252 AU	morning max el	1994 Nov 06 00:05	24°♄36'45	18°51'42
					1994 Nov 10 12:46	0°♄	
superior conj	1994 Jan 03 20:20	13°♄14'21	-1°-48'-58	morning set	1994 Nov 27 15:22	25°♄59'00	
minimum elong	1994 Jan 03 13:11	12°♄45'28	1°48'28		1994 Nov 30 04:38	0°♄	
	1994 Jan 14 00:25	0°♄		desc. node	1994 Dec 02 02:04	2°♄58'32	
evening rise	1994 Jan 17 11:40	5°♄51'36		max. Earth dist.	1994 Dec 12 22:02	19°♄58'53	1.45030 AU
	1994 Feb 01 10:28	0°♄					
asc. node	1994 Feb 02 20:59	1°♄50'58		superior conj	1994 Dec 14 03:16	21°♄53'50	-1°-15'-3
evening max el	1994 Feb 04 21:23	4°♄06'23	18°16'24	minimum elong	1994 Dec 13 18:44	21°♄20'15	1°14'07
retrograde	1994 Feb 11 08:30	7°♄34'40			1994 Dec 19 06:26	0°♄	
evening set	1994 Feb 14 05:44	6°♄50'29		evening rise	1994 Dec 29 13:04	16°♄27'17	
inferior conj	1994 Feb 20 08:01	1°♄27'20	3°43'22		1995 Jan 06 22:17	0°♄	
minimum elong	1994 Feb 20 07:40	1°♄28'19	3°43'22	evening max el	1995 Jan 19 08:48	17°♄31'56	18°43'52
	1994 Feb 21 15:15	30°♄		asc. node	1995 Jan 20 18:02	18°♄50'15	
min. Earth dist.	1994 Feb 22 19:38	28°♄42'07	0.63520 AU	retrograde	1995 Jan 26 01:16	21°♄15'53	
morning rise	1994 Feb 26 07:46	25°♄22'00		evening set	1995 Jan 29 04:17	20°♄20'16	
direct	1994 Mar 05 05:49	22°♄37'32		inferior conj	1995 Feb 03 23:00	14°♄39'10	3°33'03
desc. node	1994 Mar 13 04:12	25°♄32'53		minimum elong	1995 Feb 03 21:17	14°♄44'26	3°32'49
	1994 Mar 18 12:03	0°♄		min. Earth dist.	1995 Feb 05 19:05	12°♄25'06	0.65163 AU
morning max el	1994 Mar 19 01:27	0°♄33'02	27°41'07	morning rise	1995 Feb 09 13:06	8°♄28'08	
	1994 Apr 09 16:30	0°♄		direct	1995 Feb 16 05:06	5°♄37'16	
morning set	1994 Apr 22 14:55	23°♄36'29		desc. node	1995 Feb 28 01:16	12°♄00'37	
	1994 Apr 25 18:27	0°♄		morning max el	1995 Mar 01 11:07	13°♄22'58	27°00'53
max. Earth dist.	1994 Apr 27 20:30	4°♄21'24	1.33016 AU		1995 Mar 14 21:35	0°♄	
					1995 Apr 02 07:29	0°♄	
superior conj	1994 Apr 30 10:21	9°♄50'43	0°-14'-51	morning set	1995 Apr 06 02:59	7°♄10'06	
minimum elong	1994 Apr 30 11:04	9°♄54'38	0°14'43	max. Earth dist.	1995 Apr 10 15:28	16°♄05'54	1.34086 AU
behind sun begin	1994 Apr 30 09:01	9°♄43'38					
behind sun end	1994 Apr 30 13:07	10°♄05'37		superior conj	1995 Apr 14 12:49	24°♄06'42	0°-42'-46
asc. node	1994 May 01 20:17	12°♄53'25		minimum elong	1995 Apr 14 14:58	24°♄18'01	0°42'21
evening rise	1994 May 07 13:08	25°♄08'23			1995 Apr 17 07:54	0°♄	
	1994 May 09 21:08	0°♄		asc. node	1995 Apr 18 17:21	2°♄57'06	
	1994 May 28 14:52	0°♄		evening rise	1995 Apr 21 23:31	9°♄48'46	
evening max el	1994 May 30 06:47	1°♄41'51	23°07'29		1995 May 02 15:18	0°♄	
desc. node	1994 Jun 09 03:24	7°♄55'08		evening max el	1995 May 12 02:02	12°♄20'27	21°34'23
retrograde	1994 Jun 12 17:49	8°♄24'40		retrograde	1995 May 24 09:02	18°♄21'42	
evening set	1994 Jun 16 08:36	7°♄56'00		evening set	1995 May 26 20:25	18°♄07'51	
min. Earth dist.	1994 Jun 23 16:14	4°♄38'12	0.55614 AU	desc. node	1995 May 27 00:26	18°♄05'57	
inferior conj	1994 Jun 25 09:57	3°♄37'20	-4°-8'-2	inferior conj	1995 Jun 05 05:38	14°♄07'10	-2°-36'-14
minimum elong	1994 Jun 25 02:38	3°♄48'02	4°06'30	minimum elong	1995 Jun 04 22:43	14°♄16'51	2°33'59
	1994 Jul 02 23:18	30°♄		min. Earth dist.	1995 Jun 05 04:17	14°♄09'03	0.54932 AU
morning rise	1994 Jul 03 23:45	29°♄44'16		morning rise	1995 Jun 14 01:43	10°♄11'26	
direct	1994 Jul 06 19:43	29°♄25'06		direct	1995 Jun 17 06:58	9°♄48'46	
	1994 Jul 10 12:41	0°♄		morning max el	1995 Jun 29 15:53	15°♄39'11	22°01'20

	1995 Jul 10 16:58	0°☿			1996 Jun 13 21:45	0°♁		
asc. node	1995 Jul 15 16:36	8°☿54'03		asc. node	1996 Jul 01 13:39	28°♁28'31		
morning set	1995 Jul 20 19:39	19°☿11'49		morning set	1996 Jul 02 07:37	0°☿		
	1995 Jul 25 22:19	0°♁			1996 Jul 04 07:13	4°☿07'18		
superior conj	1995 Jul 28 02:09	4°♁33'52	1°39'00	superior conj	1996 Jul 11 09:01	19°☿19'51	1°27'11	
minimum elong	1995 Jul 28 00:26	4°♁24'51	1°38'53	minimum elong	1996 Jul 11 06:42	19°☿07'25	1°26'55	
max. Earth dist.	1995 Jul 31 14:14	11°♁50'02	1.34602 AU	max. Earth dist.	1996 Jul 13 14:20	24°☿05'24	1.33415 AU	
evening rise	1995 Aug 05 05:05	21°♁01'22		evening rise	1996 Jul 16 09:56	0°♁		
	1995 Aug 10 00:13	0°♁			1996 Jul 18 21:40	5°♁04'15		
desc. node	1995 Aug 22 23:44	21°♁23'00		desc. node	1996 Aug 01 16:17	0°♁		
	1995 Aug 29 02:07	0°♁			1996 Aug 08 20:46	10°♁51'39		
evening max el	1995 Sep 09 04:35	12°♁54'24	26°58'23	evening max el	1996 Aug 21 16:09	26°♁11'36	27°23'59	
retrograde	1995 Sep 22 09:15	20°♁11'06		retrograde	1996 Aug 26 05:17	0°♁		
evening set	1995 Sep 29 03:49	17°♁28'57		retrograde	1996 Sep 04 05:47	3°♁29'21		
min. Earth dist.	1995 Oct 03 02:39	13°♁34'14	0.65473 AU	evening set	1996 Sep 11 08:53	0°♁49'01		
inferior conj	1995 Oct 05 01:17	11°♁20'13	-2°-11'-30		1996 Sep 12 09:32	30°♁		
minimum elong	1995 Oct 05 04:48	11°♁10'06	2°10'10	min. Earth dist.	1996 Sep 15 01:44	27°♁29'32	0.64019 AU	
morning rise	1995 Oct 11 07:19	5°♁40'26		inferior conj	1996 Sep 17 13:05	24°♁54'47	-3°-8'-38	
asc. node	1995 Oct 11 15:49	5°♁30'38		minimum elong	1996 Sep 17 17:56	24°♁42'07	3°07'04	
direct	1995 Oct 14 00:47	4°♁59'46		morning rise	1996 Sep 24 05:07	19°♁31'13		
morning max el	1995 Oct 20 13:43	8°♁32'16	18°14'39	direct	1996 Sep 26 17:08	18°♁59'53		
	1995 Nov 04 08:50	0°♁		asc. node	1996 Sep 27 12:52	19°♁03'19		
morning set	1995 Nov 08 07:45	6°♁28'07		morning max el	1996 Oct 03 05:48	22°♁25'39	17°54'51	
desc. node	1995 Nov 18 23:03	23°♁40'04		morning set	1996 Oct 09 03:13	0°♁		
	1995 Nov 22 22:46	0°♁			1996 Oct 20 03:32	18°♁17'22		
					1996 Oct 27 01:01	0°♁		
superior conj	1995 Nov 23 05:26	0°♁26'18	0°-28'-19					
minimum elong	1995 Nov 23 01:46	0°♁11'51	0°27'50	superior conj	1996 Nov 01 23:55	9°♁50'26	0°19'09	
max. Earth dist.	1995 Nov 25 17:06	4°♁21'27	1.45079 AU	minimum elong	1996 Nov 02 02:02	9°♁59'02	0°18'52	
evening rise	1995 Dec 09 15:30	26°♁08'21		desc. node	1996 Nov 04 20:04	14°♁26'15		
	1995 Dec 12 02:57	0°♁			1996 Nov 07 11:35	18°♁40'23	1.44396 AU	
greatest brilliancy	1995 Dec 25 04:46	20°♁01'18	-0.7m	greatest brilliancy	1996 Nov 14 16:36	0°♁		
	1996 Jan 01 18:06	0°♁			1996 Nov 18 02:15	5°♁15'36		
evening max el	1996 Jan 02 16:45	1°♁00'39	19°28'16	evening rise	1996 Dec 04 13:48	0°♁		
asc. node	1996 Jan 07 15:05	4°♁41'40		greatest brilliancy	1996 Dec 09 17:10	7°♁09'44	-0.5m	
retrograde	1996 Jan 09 21:51	5°♁10'09		evening max el	1996 Dec 15 19:40	14°♁30'32	20°27'26	
evening set	1996 Jan 13 07:58	4°♁01'39		retrograde	1996 Dec 23 19:46	19°♁13'33		
	1996 Jan 17 09:37	30°♁			1996 Dec 24 12:07	19°♁10'57		
inferior conj	1996 Jan 18 21:40	28°♁04'52	3°09'46	evening set	1996 Dec 27 14:36	17°♁50'42		
minimum elong	1996 Jan 18 19:12	28°♁12'53	3°09'14	inferior conj	1997 Jan 02 01:22	11°♁41'05	2°36'35	
min. Earth dist.	1996 Jan 20 02:53	26°♁29'46	0.66409 AU	minimum elong	1997 Jan 01 22:44	11°♁49'59	2°35'49	
morning rise	1996 Jan 24 05:41	21°♁50'49		min. Earth dist.	1997 Jan 02 17:17	10°♁46'58	0.67252 AU	
direct	1996 Jan 30 10:17	19°♁06'49		morning rise	1997 Jan 07 06:24	5°♁25'51		
morning max el	1996 Feb 11 20:23	26°♁29'14	25°54'45	direct	1997 Jan 12 20:41	2°♁58'06		
desc. node	1996 Feb 14 22:18	29°♁47'25		morning max el	1997 Jan 24 04:54	9°♁44'01	24°32'21	
	1996 Feb 15 02:44	0°♁			1997 Jan 31 19:19	18°♁30'38		
	1996 Mar 07 11:53	0°♁		desc. node	1997 Feb 09 05:53	0°♁		
morning set	1996 Mar 19 01:04	19°♁57'35		1997 Feb 28 03:54	0°♁			
max. Earth dist.	1996 Mar 22 22:51	27°♁19'14	1.35617 AU	morning set	1997 Mar 01 03:47	1°♁44'12		
	1996 Mar 24 08:03	0°♁			1997 Mar 04 20:54	8°♁22'13	1.37540 AU	
superior conj	1996 Mar 28 07:37	7°♁54'46	-1°-10'-14	superior conj	1997 Mar 11 15:34	21°♁06'21	-1°-35'-11	
minimum elong	1996 Mar 28 11:06	8°♁12'24	1°09'40	minimum elong	1997 Mar 11 19:50	21°♁27'01	1°34'40	
asc. node	1996 Apr 04 14:23	22°♁50'59			1997 Mar 16 04:13	0°♁		
evening rise	1996 Apr 05 06:22	24°♁12'46		evening rise	1997 Mar 20 07:21	8°♁13'50		
	1996 Apr 08 03:16	0°♁			1997 Mar 22 11:25	12°♁30'30		
evening max el	1996 Apr 23 07:48	23°♁30'05	20°14'26	asc. node	1997 Apr 01 13:45	0°♁		
retrograde	1996 May 03 22:40	28°♁38'36		evening max el	1997 Apr 06 01:07	5°♁19'12	19°13'06	
evening set	1996 May 05 23:44	28°♁27'59		retrograde	1997 Apr 15 00:01	9°♁39'20		
desc. node	1996 May 12 21:29	25°♁44'23		evening set	1997 Apr 17 02:26	9°♁26'02		
inferior conj	1996 May 15 01:12	24°♁29'35	0°-37'-43	inferior conj	1997 Apr 25 10:32	5°♁15'28	1°13'12	
minimum elong	1996 May 14 23:27	24°♁32'12	0°37'05	minimum elong	1997 Apr 25 13:21	5°♁10'43	1°12'15	
min. Earth dist.	1996 May 16 17:12	23°♁30'38	0.55204 AU	min. Earth dist.	1997 Apr 28 08:06	3°♁19'02	0.56373 AU	
morning rise	1996 May 23 20:56	20°♁12'16		desc. node	1997 Apr 29 18:31	2°♁25'11		
direct	1996 May 27 19:02	19°♁38'56		morning rise	1997 May 03 20:12	0°♁24'13		
morning max el	1996 Jun 10 08:52	26°♁17'48	23°42'27		1997 May 05 01:48	30°♁		

direct	1997 May 08 18:05	29°♃28'28		morning rise	1998 Apr 14 09:25	11°♃17'08	
	1997 May 12 10:25	0°♃		desc. node	1998 Apr 16 15:31	10°♃22'07	
morning max el	1997 May 22 23:18	6°♃44'24	25°21'46	direct	1998 Apr 20 07:31	9°♃47'28	
	1997 Jun 08 23:25	0°♃		morning max el	1998 May 04 16:45	17°♃26'47	26°43'35
asc. node	1997 Jun 18 10:40	18°♃19'27			1998 May 15 02:10	0°♃	
morning set	1997 Jun 18 18:58	19°♃03'12			1998 Jun 01 08:07	0°♃	
	1997 Jun 23 20:41	0°♃		morning set	1998 Jun 03 05:21	3°♃54'15	
				asc. node	1998 Jun 05 07:42	8°♃21'40	
superior conj	1997 Jun 25 19:14	4°♃14'51	1°10'42	superior conj	1998 Jun 10 06:57	19°♃12'46	0°50'23
minimum elong	1997 Jun 25 16:51	4°♃01'51	1°10'19	minimum elong	1998 Jun 10 04:58	19°♃01'50	0°49'59
max. Earth dist.	1997 Jun 26 21:48	6°♃39'59	1.32628 AU	max. Earth dist.	1998 Jun 10 09:20	19°♃25'55	1.32229 AU
evening rise	1997 Jul 02 22:46	19°♃31'43			1998 Jun 15 05:33	0°♃	
	1997 Jul 08 05:28	0°♃		evening rise	1998 Jun 17 05:38	4°♃15'19	
desc. node	1997 Jul 26 17:48	29°♃37'49			1998 Jun 30 23:52	0°♃	
	1997 Jul 27 00:42	0°♃		desc. node	1998 Jul 13 14:49	17°♃24'07	
evening max el	1997 Aug 04 00:30	8°♃57'55	27°19'11	evening max el	1998 Jul 17 03:17	21°♃02'47	26°41'17
retrograde	1997 Aug 17 19:49	16°♃13'53		retrograde	1998 Jul 31 02:28	28°♃16'03	
evening set	1997 Aug 25 00:21	13°♃47'29		evening set	1998 Aug 06 21:48	26°♃17'21	
min. Earth dist.	1997 Aug 28 14:27	10°♃56'22	0.62233 AU	min. Earth dist.	1998 Aug 10 17:01	23°♃40'51	0.60217 AU
inferior conj	1997 Aug 31 13:43	8°♃11'01	-4°00'-29	inferior conj	1998 Aug 13 23:47	21°♃00'43	-4°-40'-27
minimum elong	1997 Aug 31 19:04	7°♃58'34	3°59'11	minimum elong	1998 Aug 14 03:55	20°♃52'17	4°39'54
morning rise	1997 Sep 07 16:30	3°♃07'06		morning rise	1998 Aug 21 13:21	16°♃19'01	
direct	1997 Sep 10 01:42	2°♃42'03		direct	1998 Aug 23 22:35	15°♃57'42	
asc. node	1997 Sep 14 09:53	4°♃07'33		morning max el	1998 Aug 31 09:12	19°♃35'56	18°10'34
morning max el	1997 Sep 16 21:19	6°♃09'27	17°53'08	asc. node	1998 Sep 01 06:54	20°♃31'05	
	1997 Oct 02 05:38	0°♃			1998 Sep 08 01:58	0°♃	
morning set	1997 Oct 02 20:35	1°♃07'14		morning set	1998 Sep 16 05:04	14°♃41'36	
					1998 Sep 24 10:13	0°♃	
superior conj	1997 Oct 13 21:02	20°♃33'34	0°57'56	superior conj	1998 Sep 25 19:50	2°♃32'22	1°24'44
minimum elong	1997 Oct 14 01:33	20°♃52'48	0°57'22	minimum elong	1998 Sep 25 23:48	2°♃50'13	1°24'20
	1997 Oct 19 12:08	0°♃		max. Earth dist.	1998 Oct 03 10:47	15°♃51'16	1.41282 AU
max. Earth dist.	1997 Oct 21 02:03	2°♃35'12	1.43073 AU	evening rise	1998 Oct 08 14:19	24°♃22'26	
desc. node	1997 Oct 22 17:05	5°♃13'27		desc. node	1998 Oct 09 14:07	25°♃58'33	
evening rise	1997 Oct 28 12:28	14°♃26'27			1998 Oct 12 02:44	0°♃	
	1997 Nov 07 17:42	0°♃		greatest brilliancy	1998 Nov 01 16:02	0°♃	
greatest brilliancy	1997 Nov 23 19:41	22°♃25'43	-0.4m	greatest brilliancy	1998 Nov 06 01:17	5°♃34'48	-0.2m
evening max el	1997 Nov 28 16:50	28°♃00'40	21°38'24	evening max el	1998 Nov 11 09:04	11°♃33'18	22°56'42
	1997 Nov 30 19:11	0°♃		retrograde	1998 Nov 21 11:46	17°♃33'23	
retrograde	1997 Dec 07 16:56	3°♃22'11		evening set	1998 Nov 26 05:34	15°♃37'59	
asc. node	1997 Dec 11 09:09	2°♃07'52		asc. node	1998 Nov 28 06:09	13°♃37'39	
evening set	1997 Dec 11 22:21	1°♃43'34		min. Earth dist.	1998 Dec 01 08:42	9°♃36'37	0.67831 AU
	1997 Dec 13 18:06	30°♃		inferior conj	1998 Dec 01 15:23	9°♃13'34	1°08'24
inferior conj	1997 Dec 17 07:53	25°♃24'34	1°55'37	minimum elong	1998 Dec 01 13:52	9°♃18'48	1°07'47
minimum elong	1997 Dec 17 05:37	25°♃32'28	1°54'48	morning rise	1998 Dec 06 22:09	3°♃01'53	
min. Earth dist.	1997 Dec 17 12:01	25°♃10'17	0.67716 AU	direct	1998 Dec 11 06:29	1°♃18'12	
morning rise	1997 Dec 22 12:37	19°♃10'03		morning max el	1998 Dec 20 03:54	6°♃30'44	21°38'15
direct	1997 Dec 27 11:41	17°♃03'34		greatest brilliancy	1998 Dec 25 02:03	12°♃05'47	-0.4m
morning max el	1998 Jan 06 14:17	23°♃03'39	23°03'48	desc. node	1999 Jan 05 13:22	27°♃46'02	
greatest brilliancy	1998 Jan 11 10:48	28°♃29'17	-0.3m		1999 Jan 07 02:04	0°♃	
	1998 Jan 12 16:20	0°♃		morning set	1999 Jan 21 00:45	21°♃19'47	
desc. node	1998 Jan 18 16:20	7°♃53'48			1999 Jan 26 09:32	0°♃	
	1998 Feb 02 15:15	0°♃		max. Earth dist.	1999 Jan 27 15:03	2°♃01'45	1.41760 AU
morning set	1998 Feb 10 04:52	12°♃13'40					
max. Earth dist.	1998 Feb 14 15:48	19°♃46'56	1.39675 AU	superior conj	1999 Feb 04 05:20	14°♃55'54	-2°-4'-34
	1998 Feb 20 10:22	0°♃		minimum elong	1999 Feb 04 06:18	15°♃00'07	2°04'35
superior conj	1998 Feb 22 08:29	3°♃30'35	-1°-54'-39		1999 Feb 12 15:28	0°♃	
minimum elong	1998 Feb 22 12:13	3°♃47'49	1°54'25	evening rise	1999 Feb 15 03:29	4°♃34'56	
evening rise	1998 Mar 03 23:34	21°♃43'56		asc. node	1999 Feb 24 05:29	20°♃42'28	
	1998 Mar 08 08:28	0°♃			1999 Mar 02 22:50	0°♃	
asc. node	1998 Mar 09 08:27	1°♃49'58		evening max el	1999 Mar 03 13:01	0°♃36'04	18°10'44
evening max el	1998 Mar 20 03:55	17°♃44'05	18°31'57	retrograde	1999 Mar 10 09:11	4°♃03'15	
retrograde	1998 Mar 27 19:42	21°♃29'40		evening set	1999 Mar 12 22:31	3°♃34'56	
evening set	1998 Mar 30 03:27	21°♃10'01			1999 Mar 18 09:23	30°♃	
inferior conj	1998 Apr 06 16:35	16°♃40'28	2°34'16	inferior conj	1999 Mar 19 19:14	28°♃44'06	3°21'55
minimum elong	1998 Apr 06 20:34	16°♃32'36	2°33'15	minimum elong	1999 Mar 19 21:56	28°♃37'55	3°21'32
min. Earth dist.	1998 Apr 10 02:41	14°♃00'08	0.58188 AU				

min. Earth dist.	1999 Mar 23 02:57	25° Υ 43'10	0.60315 AU	evening max el	2000 Feb 15 01:15	13° Υ 46'50	18°08'55
morning rise	1999 Mar 26 17:59	22° Υ 58'16		retrograde	2000 Feb 21 12:46	17° Υ 10'42	
direct	1999 Apr 02 09:19	20° Υ 52'17		evening set	2000 Feb 24 07:13	16° Υ 32'26	
desc. node	1999 Apr 03 12:34	20° Υ 55'51		inferior conj	2000 Mar 01 15:10	11° Υ 20'33	3°41'46
morning max el	1999 Apr 16 16:03	28° Υ 43'33	27°34'58	minimum elong	2000 Mar 01 15:53	11° Υ 18'43	3°41'44
	1999 Apr 17 22:09	0° Υ		min. Earth dist.	2000 Mar 04 11:16	8° Υ 23'59	0.62420 AU
	1999 May 08 21:22	0° Υ		morning rise	2000 Mar 07 22:17	5° Υ 20'47	
morning set	1999 May 18 12:31	18° Υ 33'10		direct	2000 Mar 14 20:39	2° Υ 46'44	
asc. node	1999 May 23 04:44	28° Υ 29'33		desc. node	2000 Mar 20 09:37	4° Υ 12'34	
	1999 May 23 21:22	0° Υ		morning max el	2000 Mar 28 21:13	10° Υ 42'02	27°49'30
max. Earth dist.	1999 May 24 21:14	2° Υ 10'25	1.32218 AU		2000 Apr 13 00:17	0° Υ	
					2000 Apr 30 03:53	0° Υ	
superior conj	1999 May 25 18:22	4° Υ 06'18	0°26'52	morning set	2000 May 01 14:26	2° Υ 53'22	
minimum elong	1999 May 25 17:11	3° Υ 59'49	0°26'36	max. Earth dist.	2000 May 07 05:42	14° Υ 40'49	1.32608 AU
evening rise	1999 Jun 01 15:54	19° Υ 06'17					
	1999 Jun 07 00:18	0° Υ		superior conj	2000 May 09 03:49	18° Υ 49'53	0°00'53
	1999 Jun 26 15:39	0° Υ		minimum elong	2000 May 09 03:47	18° Υ 49'39	0°00'53
evening max el	1999 Jun 28 23:06	2° Υ 20'59	25°32'45	behind sun begin	2000 May 08 22:37	18° Υ 21'38	
desc. node	1999 Jun 30 11:51	3° Υ 44'50		behind sun end	2000 May 09 08:57	19° Υ 17'43	
retrograde	1999 Jul 12 23:33	9° Υ 29'25		asc. node	2000 May 09 01:49	18° Υ 38'58	
evening set	1999 Jul 18 20:34	8° Υ 08'23			2000 May 14 07:10	0° Υ	
min. Earth dist.	1999 Jul 23 11:15	5° Υ 28'26	0.58171 AU	evening rise	2000 May 16 03:42	3° Υ 58'05	
inferior conj	1999 Jul 26 15:48	3° Υ 13'30	-4°-58'-14		2000 May 30 04:27	0° Υ	
minimum elong	1999 Jul 26 16:11	3° Υ 12'49	4°58'15	evening max el	2000 Jun 09 13:32	13° Υ 01'28	24°02'57
	1999 Jul 31 18:44	30° Υ		desc. node	2000 Jun 16 08:52	18° Υ 07'07	
morning rise	1999 Aug 03 15:26	28° Υ 54'33		retrograde	2000 Jun 23 08:32	19° Υ 57'43	
direct	1999 Aug 06 03:27	28° Υ 35'02		evening set	2000 Jun 27 20:12	19° Υ 13'12	
	1999 Aug 11 04:25	0° Υ		min. Earth dist.	2000 Jul 04 00:16	16° Υ 13'13	0.56391 AU
morning max el	1999 Aug 14 14:09	2° Υ 34'48	18°48'29	inferior conj	2000 Jul 06 11:35	14° Υ 41'46	-4°-39'-53
asc. node	1999 Aug 19 03:57	7° Υ 58'00		minimum elong	2000 Jul 06 06:35	14° Υ 49'31	4°39'15
morning set	1999 Aug 31 00:25	28° Υ 47'21		morning rise	2000 Jul 14 20:29	10° Υ 42'13	
	1999 Aug 31 15:15	0° Υ		direct	2000 Jul 17 13:20	10° Υ 23'11	
				morning max el	2000 Jul 27 09:17	14° Υ 56'50	19°47'52
superior conj	1999 Sep 08 14:58	15° Υ 31'04	1°40'03	asc. node	2000 Aug 05 01:02	26° Υ 14'26	
minimum elong	1999 Sep 08 17:09	15° Υ 41'29	1°39'55		2000 Aug 07 05:42	0° Υ	
max. Earth dist.	1999 Sep 15 15:20	28° Υ 24'44	1.39253 AU	morning set	2000 Aug 14 03:15	13° Υ 15'42	
	1999 Sep 16 12:53	0° Υ					
evening rise	1999 Sep 19 15:39	5° Υ 23'41		superior conj	2000 Aug 22 01:05	29° Υ 14'55	1°45'38
desc. node	1999 Sep 26 11:10	16° Υ 37'17		minimum elong	2000 Aug 22 01:26	29° Υ 16'35	1°45'38
	1999 Oct 05 05:12	0° Υ			2000 Aug 22 10:11	0° Υ	
evening max el	1999 Oct 24 22:15	25° Υ 10'01	24°16'35				
	1999 Oct 30 20:08	0° Υ					
retrograde	1999 Nov 05 02:59	1° Υ 43'35					
	1999 Nov 09 20:13	30° Υ					
evening set	1999 Nov 10 10:40	29° Υ 31'10					
min. Earth dist.	1999 Nov 15 04:53	24° Υ 03'26	0.67607 AU				
asc. node	1999 Nov 15 03:11	24° Υ 09'06					
inferior conj	1999 Nov 15 22:04	23° Υ 05'35	0°16'13				
minimum elong	1999 Nov 15 21:41	23° Υ 06'55	0°16'03				
transit begin	1999 Nov 15 21:15	23° Υ 08'22					
transit end	1999 Nov 15 22:07	23° Υ 05'27					
morning rise	1999 Nov 21 09:00	16° Υ 59'17					
direct	1999 Nov 25 03:55	15° Υ 37'19					
morning max el	1999 Dec 03 00:43	20° Υ 08'36	20°22'32				
greatest brilliancy	1999 Dec 09 11:09	27° Υ 48'28	-0.5m				
	1999 Dec 11 02:09	0° Υ					
desc. node	1999 Dec 23 10:26	17° Υ 59'18					
morning set	1999 Dec 30 23:24	29° Υ 31'19					
	1999 Dec 31 06:48	0° Υ					
max. Earth dist.	2000 Jan 09 22:33	15° Υ 13'52	1.43503 AU				
superior conj	2000 Jan 16 01:19	25° Υ 12'16	-1°-59'-57				
minimum elong	2000 Jan 15 21:09	24° Υ 55'01	1°59'47				
	2000 Jan 18 22:20	0° Υ					
evening rise	2000 Jan 28 15:00	16° Υ 39'09					
	2000 Feb 05 08:09	0° Υ					
asc. node	2000 Feb 11 02:32	9° Υ 00'00					