

















































































































































































































































opposition	10600 Feb 20 22:35	6° $\mathbb{M}$ 33'26	-0°35'57		10606 Jan 11 09:59	0° $\mathbb{H}$	
min. Earth dist.	10600 Feb 20 07:18	6° $\mathbb{M}$ 38'36	3.89618 AU	evening set	10606 Feb 10 20:27	6° $\mathbb{H}$ 13'41	
direct	10600 Apr 19 23:20	1° $\mathbb{M}$ 38'42					
evening set	10600 Aug 25 01:53	21° $\mathbb{M}$ 50'11		conjunction	10606 Feb 23 20:45	9° $\mathbb{H}$ 00'15	0°22'35
				minimum elong	10606 Feb 23 20:46	9° $\mathbb{H}$ 00'16	0°22'49
conjunction	10600 Sep 07 13:51	25° $\mathbb{M}$ 07'14	-0°11'13	max. Earth dist.	10606 Feb 22 20:06	8° $\mathbb{H}$ 47'04	6.50728 AU
minimum elong	10600 Sep 07 13:51	25° $\mathbb{M}$ 07'14	0°11'18	morning rise	10606 Mar 08 19:06	11° $\mathbb{H}$ 45'55	
behind sun begin	10600 Sep 07 07:45	25° $\mathbb{M}$ 03'32		retrograde	10606 Jul 07 06:11	28° $\mathbb{H}$ 20'31	
behind sun end	10600 Sep 07 19:57	25° $\mathbb{M}$ 10'56		opposition	10606 Sep 06 07:31	23° $\mathbb{H}$ 26'41	0°18'20
max. Earth dist.	10600 Sep 09 06:48	25° $\mathbb{M}$ 32'10	5.91198 AU	min. Earth dist.	10606 Sep 07 09:13	23° $\mathbb{H}$ 18'28	4.49190 AU
morning rise	10600 Sep 21 04:03	28° $\mathbb{M}$ 25'21		direct	10606 Nov 08 00:17	18° $\mathbb{H}$ 25'26	
	10600 Sep 27 17:31	0° $\mathbb{L}$			10607 Feb 13 19:59	0° $\mathbb{Y}$	
retrograde	10601 Jan 30 16:14	19° $\mathbb{L}$ 06'00		evening set	10607 Mar 12 23:26	5° $\mathbb{Y}$ 39'27	
asc. node	10601 Feb 19 19:03	18° $\mathbb{L}$ 25'19		max. Earth dist.	10607 Mar 23 21:38	8° $\mathbb{Y}$ 01'17	6.45455 AU
min. Earth dist.	10601 Mar 29 13:39	14° $\mathbb{L}$ 14'26	3.95591 AU				
opposition	10601 Mar 31 00:34	14° $\mathbb{L}$ 02'34	0°04'08	conjunction	10607 Mar 25 20:21	8° $\mathbb{Y}$ 26'38	0°01'32
direct	10601 May 28 01:09	9° $\mathbb{L}$ 06'28		minimum elong	10607 Mar 25 20:22	8° $\mathbb{Y}$ 26'39	0°01'30
evening set	10601 Oct 02 02:06	28° $\mathbb{L}$ 48'44		behind sun begin	10607 Mar 25 12:22	8° $\mathbb{Y}$ 22'20	
	10601 Oct 07 02:59	0° $\mathbb{M}$		behind sun end	10607 Mar 26 04:22	8° $\mathbb{Y}$ 30'58	
				morning rise	10607 Apr 07 15:34	11° $\mathbb{Y}$ 13'10	
conjunction	10601 Oct 15 17:01	2° $\mathbb{M}$ 01'53	0°15'44	desc. node	10607 Apr 21 17:41	14° $\mathbb{Y}$ 13'33	
minimum elong	10601 Oct 15 17:00	2° $\mathbb{M}$ 01'52	0°15'59	retrograde	10607 Aug 07 03:07	28° $\mathbb{Y}$ 11'39	
max. Earth dist.	10601 Oct 18 04:19	2° $\mathbb{M}$ 36'57	6.02174 AU	opposition	10607 Oct 07 03:25	23° $\mathbb{Y}$ 18'33	-0°14'05
morning rise	10601 Oct 29 09:28	5° $\mathbb{M}$ 15'28		min. Earth dist.	10607 Oct 08 16:38	23° $\mathbb{Y}$ 06'38	4.39846 AU
	10601 Dec 12 10:16	15° $\mathbb{M}$		direct	10607 Dec 08 11:58	18° $\mathbb{Y}$ 18'00	
retrograde	10602 Mar 07 05:41	24° $\mathbb{M}$ 54'56			10608 Mar 14 12:54	0° $\mathbb{B}$	
min. Earth dist.	10602 May 04 07:48	20° $\mathbb{M}$ 04'03	4.10250 AU	evening set	10608 Apr 11 16:59	6° $\mathbb{B}$ 02'19	
opposition	10602 May 05 22:40	19° $\mathbb{M}$ 50'53	0°40'32	max. Earth dist.	10608 Apr 22 04:27	8° $\mathbb{B}$ 22'26	6.32647 AU
	10602 Jun 25 06:50	15° $\mathbb{R}$ $\mathbb{M}$					
direct	10602 Jul 03 20:31	14° $\mathbb{M}$ 52'33		conjunction	10608 Apr 24 12:13	8° $\mathbb{B}$ 53'39	-0°20'35
	10602 Jul 12 11:18	15° $\mathbb{M}$		minimum elong	10608 Apr 24 12:12	8° $\mathbb{B}$ 53'38	0°20'53
	10602 Oct 21 18:37	0° $\mathbb{Z}$		morning rise	10608 May 07 06:13	11° $\mathbb{B}$ 44'43	
evening set	10602 Nov 07 10:12	3° $\mathbb{Z}$ 43'03			10608 May 22 01:18	15° $\mathbb{B}$	
				retrograde	10608 Sep 08 04:39	29° $\mathbb{B}$ 36'14	
conjunction	10602 Nov 20 23:59	6° $\mathbb{Z}$ 47'55	0°35'40	opposition	10608 Nov 07 21:06	24° $\mathbb{B}$ 42'45	-0°44'25
minimum elong	10602 Nov 20 23:58	6° $\mathbb{Z}$ 47'55	0°36'08	min. Earth dist.	10608 Nov 09 13:10	24° $\mathbb{B}$ 29'51	4.24317 AU
max. Earth dist.	10602 Nov 23 08:19	7° $\mathbb{Z}$ 19'56	6.19094 AU	direct	10609 Jan 08 08:08	19° $\mathbb{B}$ 43'40	
morning rise	10602 Dec 04 13:39	9° $\mathbb{Z}$ 52'26			10609 Apr 06 06:27	0° $\mathbb{I}$	
retrograde	10603 Apr 09 02:02	28° $\mathbb{Z}$ 15'26		evening set	10609 May 13 23:46	8° $\mathbb{I}$ 16'01	
min. Earth dist.	10603 Jun 06 23:32	23° $\mathbb{Z}$ 23'27	4.27757 AU	max. Earth dist.	10609 May 24 16:02	10° $\mathbb{I}$ 44'33	6.15565 AU
opposition	10603 Jun 08 05:52	23° $\mathbb{Z}$ 13'21	1°00'25				
direct	10603 Aug 07 10:33	18° $\mathbb{Z}$ 13'15		conjunction	10609 May 26 19:36	11° $\mathbb{I}$ 14'32	-0°37'30
	10603 Nov 12 03:07	0° $\mathbb{B}$		minimum elong	10609 May 26 19:35	11° $\mathbb{I}$ 14'32	0°37'59
evening set	10603 Dec 11 10:29	6° $\mathbb{B}$ 12'02		morning rise	10609 Jun 08 15:39	14° $\mathbb{I}$ 13'28	
					10609 Aug 28 02:09	0° $\mathbb{G}$	
conjunction	10603 Dec 24 20:04	9° $\mathbb{B}$ 08'07	0°43'02	retrograde	10609 Oct 13 22:22	3° $\mathbb{G}$ 18'43	
minimum elong	10603 Dec 24 20:04	9° $\mathbb{B}$ 08'07	0°43'34		10609 Nov 30 14:04	30° $\mathbb{R}$ $\mathbb{I}$	
max. Earth dist.	10603 Dec 26 04:57	9° $\mathbb{B}$ 26'09	6.35757 AU	opposition	10609 Dec 13 02:54	28° $\mathbb{I}$ 23'39	-1°02'43
morning rise	10604 Jan 07 04:44	12° $\mathbb{B}$ 03'26		min. Earth dist.	10609 Dec 14 07:17	28° $\mathbb{I}$ 14'22	4.06943 AU
retrograde	10604 May 08 19:39	29° $\mathbb{B}$ 22'44		direct	10610 Feb 11 04:57	23° $\mathbb{I}$ 26'37	
opposition	10604 Jul 08 10:01	24° $\mathbb{B}$ 23'48	1°01'00		10610 Apr 18 21:46	0° $\mathbb{G}$	
min. Earth dist.	10604 Jul 07 21:17	24° $\mathbb{B}$ 27'59	4.42337 AU	evening set	10610 Jun 17 12:26	12° $\mathbb{G}$ 52'59	
direct	10604 Sep 07 21:11	19° $\mathbb{B}$ 22'41		max. Earth dist.	10610 Jun 29 09:53	15° $\mathbb{G}$ 44'24	5.99457 AU
	10604 Dec 09 10:56	0° $\mathbb{A}$					
evening set	10605 Jan 11 07:52	6° $\mathbb{A}$ 44'37		conjunction	10610 Jun 30 12:22	16° $\mathbb{G}$ 00'22	-0°42'31
				minimum elong	10610 Jun 30 12:22	16° $\mathbb{G}$ 00'22	0°43'03
conjunction	10605 Jan 24 12:46	9° $\mathbb{A}$ 34'17	0°37'45	morning rise	10610 Jul 13 13:28	19° $\mathbb{G}$ 08'43	
minimum elong	10605 Jan 24 12:47	9° $\mathbb{A}$ 34'17	0°38'11		10610 Aug 30 21:09	0° $\mathbb{Q}$	
max. Earth dist.	10605 Jan 24 17:38	9° $\mathbb{A}$ 36'53	6.47238 AU	retrograde	10610 Nov 21 02:24	9° $\mathbb{Q}$ 26'17	
morning rise	10605 Feb 06 15:41	12° $\mathbb{A}$ 22'55		opposition	10611 Jan 19 17:13	4° $\mathbb{Q}$ 28'35	-0°58'56
	10605 Feb 19 01:48	15° $\mathbb{A}$		min. Earth dist.	10611 Jan 19 23:59	4° $\mathbb{Q}$ 26'20	3.93688 AU
retrograde	10605 Jun 07 11:10	29° $\mathbb{A}$ 04'40			10611 Mar 03 06:39	30° $\mathbb{R}$ $\mathbb{G}$	
opposition	10605 Aug 07 10:04	24° $\mathbb{A}$ 08'47	0°45'19	direct	10611 Mar 19 11:16	29° $\mathbb{G}$ 33'28	
min. Earth dist.	10605 Aug 07 16:29	24° $\mathbb{A}$ 06'43	4.50087 AU		10611 Apr 04 14:34	0° $\mathbb{Q}$	
direct	10605 Oct 08 17:45	19° $\mathbb{A}$ 07'24			10611 Jul 04 22:24	15° $\mathbb{Q}$	

evening set	10611 Jul 24 07:56	19°♏38'39		minimum elong	10617 Jan 28 19:27	13°♊50'47	0°36'32
				max. Earth dist.	10617 Jan 28 18:24	13°♊50'13	6.48111 AU
conjunction	10611 Aug 06 14:20	22°♏53'23 -0°31'24			10617 Feb 03 04:37	15°♊	
minimum elong	10611 Aug 06 14:22	22°♏53'24 0°31'46		morning rise	10617 Feb 10 21:50	16°♊38'51	
max. Earth dist.	10611 Aug 06 23:57	22°♏59'16 5.90400 AU			10617 Apr 24 23:51	0°♋	
morning rise	10611 Aug 19 23:00	26°♏09'26		retrograde	10617 Jun 11 15:24	3°♋18'12	
	10611 Sep 04 22:59	0°♌			10617 Jul 29 17:43	30°♌	
retrograde	10611 Dec 30 01:28	17°♌03'44		opposition	10617 Aug 11 13:55	28°♌22'40	0°42'03
opposition	10612 Feb 27 09:31	12°♌02'40 -0°30'43		min. Earth dist.	10617 Aug 12 00:03	28°♌19'24	4.50322 AU
min. Earth dist.	10612 Feb 26 13:48	12°♌09'19 3.89981 AU		direct	10617 Oct 13 00:09	23°♌21'11	
direct	10612 Apr 25 08:24	7°♌07'49			10617 Dec 23 07:45	0°♍	
evening set	10612 Aug 30 11:32	27°♌16'25		evening set	10618 Feb 15 01:40	10°♍27'43	
	10612 Sep 10 17:27	0°♎		max. Earth dist.	10618 Feb 26 21:57	12°♍59'28	6.50308 AU
conjunction	10612 Sep 13 00:01	0°♎33'09 -0°07'22		conjunction	10618 Feb 28 01:35	13°♍14'16	0°19'51
minimum elong	10612 Sep 13 00:02	0°♎33'09 0°07'25		minimum elong	10618 Feb 28 01:36	13°♍14'17	0°20'03
behind sun begin	10612 Sep 12 16:24	0°♎28'32		morning rise	10618 Mar 12 23:20	15°♍59'53	
behind sun end	10612 Sep 13 07:39	0°♎37'45			10618 May 30 08:48	0°♎	
max. Earth dist.	10612 Sep 14 19:58	0°♎59'49 5.92400 AU		retrograde	10618 Jul 11 11:04	2°♎36'34	
morning rise	10612 Sep 26 14:50	3°♎50'54			10618 Aug 22 22:16	30°♎	
asc. node	10612 Dec 30 17:15	22°♎18'58		opposition	10618 Sep 10 13:23	27°♎42'54	0°13'54
retrograde	10613 Feb 04 19:00	24°♎24'15		min. Earth dist.	10618 Sep 11 16:18	27°♎34'18	4.48158 AU
min. Earth dist.	10613 Apr 03 17:11	19°♎32'47 3.97465 AU		direct	10618 Nov 12 04:42	22°♎41'43	
opposition	10613 Apr 05 05:13	19°♎20'31 0°09'54			10619 Jan 26 03:24	0°♏	
direct	10613 Jun 02 08:35	14°♎24'05		desc. node	10619 Feb 27 10:30	6°♏12'42	
	10613 Sep 20 01:16	0°♐		evening set	10619 Mar 17 05:59	9°♏59'23	
evening set	10613 Oct 07 06:58	3°♐58'58		max. Earth dist.	10619 Mar 28 02:28	12°♏20'48	6.43883 AU
conjunction	10613 Oct 20 22:02	7°♐11'02 0°19'09		conjunction	10619 Mar 30 02:36	12°♏47'02	-0°01'46
minimum elong	10613 Oct 20 22:01	7°♐11'02 0°19'27		minimum elong	10619 Mar 30 02:34	12°♏47'01	0°01'49
max. Earth dist.	10613 Oct 23 11:19	7°♐47'05 6.04528 AU		behind sun begin	10619 Mar 29 18:35	12°♏42'41	
morning rise	10613 Nov 03 14:07	10°♐23'21		behind sun end	10619 Mar 30 10:34	12°♏51'21	
	10613 Nov 23 18:12	15°♐		morning rise	10619 Apr 11 21:28	15°♏34'02	
retrograde	10614 Mar 11 23:55	29°♐51'32			10619 Jun 30 08:14	0°♑	
min. Earth dist.	10614 May 09 03:37	25°♐00'34 4.12830 AU		retrograde	10619 Aug 11 16:31	2°♑38'51	
opposition	10614 May 10 17:48	24°♐47'41 0°44'28			10619 Sep 23 10:16	30°♑	
direct	10614 Jul 08 20:09	19°♐49'04		opposition	10619 Oct 11 15:16	27°♑45'50	-0°18'44
	10614 Oct 03 15:12	0°♒		min. Earth dist.	10619 Oct 13 06:10	27°♑33'24	4.37831 AU
evening set	10614 Nov 12 07:18	8°♒31'22		direct	10619 Dec 12 22:23	22°♑45'29	
conjunction	10614 Nov 25 20:26	11°♒34'51 0°37'29			10620 Feb 24 09:34	0°♒	
minimum elong	10614 Nov 25 20:25	11°♒34'51 0°37'59		evening set	10620 Apr 16 03:58	10°♒36'04	
max. Earth dist.	10614 Nov 28 01:12	12°♒04'40 6.21662 AU		max. Earth dist.	10620 Apr 26 14:13	12°♒56'19	6.30348 AU
morning rise	10614 Dec 09 09:36	14°♒37'58		conjunction	10620 Apr 28 23:03	13°♒28'16	-0°23'28
	10615 Mar 01 05:33	0°♓		minimum elong	10620 Apr 28 23:02	13°♒28'16	0°23'49
retrograde	10615 Apr 13 10:35	2°♓50'38			10620 May 05 18:05	15°♓	
	10615 May 26 16:45	30°♓		morning rise	10620 May 11 17:16	16°♓20'20	
opposition	10615 Jun 12 16:23	27°♓48'55 1°01'35			10620 Jul 20 08:30	0°♔	
min. Earth dist.	10615 Jun 11 12:22	27°♓58'15 4.30112 AU		retrograde	10620 Sep 13 01:25	4°♔21'23	
direct	10615 Aug 12 01:36	22°♓48'34			10620 Nov 08 12:49	30°♔	
	10615 Oct 23 19:15	0°♕		opposition	10620 Nov 12 17:00	29°♕27'44	-0°48'00
evening set	10615 Dec 15 23:28	10°♕41'03		min. Earth dist.	10620 Nov 14 07:02	29°♕15'28	4.21921 AU
				direct	10621 Jan 12 23:17	24°♕28'58	
conjunction	10615 Dec 29 08:32	13°♕36'06 0°42'59			10621 Mar 15 22:01	0°♕	
minimum elong	10615 Dec 29 08:32	13°♕36'06 0°43'31		evening set	10621 May 18 17:34	13°♕08'38	
max. Earth dist.	10615 Dec 30 14:27	13°♕52'26 6.37737 AU		max. Earth dist.	10621 May 29 14:39	15°♕40'41	6.13299 AU
morning rise	10616 Jan 11 16:15	16°♕30'17					
	10616 Mar 23 15:11	0°♖		conjunction	10621 May 31 13:50	16°♕08'16	-0°39'05
retrograde	10616 May 12 23:37	3°♖42'45		minimum elong	10621 May 31 13:49	16°♕08'16	0°39'36
	10616 Jul 02 21:12	30°♖		morning rise	10621 Jun 13 10:12	19°♕08'21	
opposition	10616 Jul 12 15:20	28°♖44'18 0°59'38			10621 Aug 02 12:29	0°♗	
min. Earth dist.	10616 Jul 12 05:04	28°♖47'39 4.43817 AU		retrograde	10621 Oct 19 05:08	8°♗23'31	
direct	10616 Sep 12 05:39	23°♖43'06		opposition	10621 Dec 18 06:56	3°♗28'12	-1°03'42
	10616 Nov 19 20:09	0°♘		min. Earth dist.	10621 Dec 19 09:13	3°♗19'35	4.05024 AU
evening set	10617 Jan 15 15:22	11°♘01'44			10622 Jan 16 17:23	30°♘	
				direct	10622 Feb 16 04:58	28°♘31'32	
conjunction	10617 Jan 28 19:27	13°♘50'47 0°36'06			10622 Mar 18 10:55	0°♙	

evening set	10622 Jun 22 13:23	18°  03'19		conjunction	10628 Jan 02 17:32	17°  56'24	0°42'43
				minimum elong	10628 Jan 02 17:33	17°  56'24	0°43'14
conjunction	10622 Jul 05 13:57	21°  11'41	-0°41'57	max. Earth dist.	10628 Jan 03 18:30	18°  10'00	6.39227 AU
minimum elong	10622 Jul 05 13:57	21°  11'41	0°42'29	morning rise	10628 Jan 16 00:42	20°  34'46	
max. Earth dist.	10622 Jul 04 15:24	20°  58'03	5.98070 AU		10628 Mar 01 07:34	0° 	
morning rise	10622 Jul 18 16:03	24°  21'05		retrograde	10628 May 17 02:14	7°  57'19	
	10622 Aug 11 17:16	0° 		opposition	10628 Jul 16 18:27	2°  59'20	0°58'04
retrograde	10622 Nov 26 10:33	14°  44'37		min. Earth dist.	10628 Jul 16 10:56	3°  01'47	4.44812 AU
opposition	10623 Jan 25 01:38	9°  46'29	-0°56'19		10628 Aug 10 09:47	30°  R 	
min. Earth dist.	10623 Jan 25 03:39	9°  45'48	3.93013 AU	direct	10628 Sep 16 11:03	27°  35'05	
direct	10623 Mar 24 15:36	4°  51'32			10628 Oct 23 21:43	0° 	
	10623 Jun 16 08:12	15° 			10629 Jan 18 16:34	15° 	
evening set	10623 Jul 29 13:17	24°  57'28		evening set	10629 Jan 19 20:55	15° 	15'03
conjunction	10623 Aug 11 20:28	28°  12'34	-0°28'40	conjunction	10629 Feb 02 00:37	18°  03'45	0°34'20
minimum elong	10623 Aug 11 20:29	28°  12'35	0°29'00	minimum elong	10629 Feb 02 00:37	18°  03'46	0°34'44
max. Earth dist.	10623 Aug 12 11:10	28°  12'34	5.90502 AU	max. Earth dist.	10629 Feb 01 21:01	18°  01'49	6.48567 AU
	10623 Aug 19 04:00	0° 		morning rise	10629 Feb 15 02:13	20°  05'12'25	
morning rise	10623 Aug 25 06:00	1°  28'58			10629 Apr 02 01:48	0° 	
retrograde	10624 Jan 04 07:38	22°  21'46		retrograde	10629 Jun 15 17:34	7°  29'43	
opposition	10624 Mar 03 16:00	17°  20'13	-0°25'27	opposition	10629 Aug 15 16:46	2°  34'33	0°38'39
min. Earth dist.	10624 Mar 02 18:00	17°  27'40	3.90845 AU	min. Earth dist.	10629 Aug 16 04:46	2°  30'41	4.50235 AU
direct	10624 Apr 30 15:36	12°  25'14			10629 Sep 05 18:05	30°  R 	
	10624 Aug 25 06:16	0° 		direct	10629 Oct 17 03:31	27°  03'11	
evening set	10624 Sep 04 16:19	2°  29'20			10629 Nov 27 17:51	0° 	
				evening set	10630 Feb 19 06:01	14°  24'07	
conjunction	10624 Sep 18 05:28	5°  45'35	-0°03'39	max. Earth dist.	10630 Mar 02 21:49	17°  24'08	6.49684 AU
minimum elong	10624 Sep 18 05:27	5°  45'35	0°03'39				
behind sun begin	10624 Sep 17 21:10	5°  40'35		conjunction	10630 Mar 04 05:19	17°  27'22	0°17'04
behind sun end	10624 Sep 18 13:45	5°  50'35		minimum elong	10630 Mar 04 05:19	17°  27'22	0°17'14
max. Earth dist.	10624 Sep 20 05:47	6°  14'48	5.93936 AU	morning rise	10630 Mar 17 02:46	20°  24'06	
morning rise	10624 Oct 01 20:31	9°  02'43			10630 May 05 14:35	0° 	
asc. node	10624 Nov 10 18:54	18°  09'50		retrograde	10630 Jul 15 18:22	6°  52'32	
retrograde	10625 Feb 09 17:34	29°  02'41		opposition	10630 Sep 14 19:22	1°  59'01	0°09'28
min. Earth dist.	10625 Apr 08 15:33	24°  36'18	3.99494 AU	min. Earth dist.	10630 Sep 16 00:47	1°  49'37	4.47035 AU
opposition	10625 Apr 10 04:05	24°  23'54	0°15'18		10630 Sep 30 18:10	30°  R 	
direct	10625 Jun 07 09:45	19°  02'14		direct	10630 Nov 16 10:55	26°  25'54	
	10625 Sep 02 05:18	0° 			10631 Jan 01 20:43	0° 	
evening set	10625 Oct 12 06:35	8°  15'44'48		desc. node	10631 Jan 06 14:27	0° 	36'32
				evening set	10631 Mar 21 11:45	14°  24'08	
conjunction	10625 Oct 25 21:26	12°  10'54'45	0°22'17	max. Earth dist.	10631 Apr 01 06:31	16°  24'08	6.42332 AU
minimum elong	10625 Oct 25 21:25	12°  10'54'44	0°22'36				
max. Earth dist.	10625 Oct 28 09:12	12°  14'04'41	6.06831 AU	conjunction	10631 Apr 03 08:08	17°  24'07'16	-0°04'55
	10625 Nov 07 08:18	15° 		minimum elong	10631 Apr 03 08:08	17°  24'07'15	0°05'02
morning rise	10625 Nov 08 13:29	15°  16'55		behind sun begin	10631 Apr 03 00:22	17°  24'03'02	
	10626 Jan 20 06:25	0° 		behind sun end	10631 Apr 03 15:53	17°  24'01'29	
retrograde	10626 Mar 16 11:38	4°  23'34'38		morning rise	10631 Apr 16 02:45	19°  24'04'46	
	10626 May 11 17:43	30°  R 			10631 Jun 05 03:04	0° 	
min. Earth dist.	10626 May 13 18:14	29°  14'34'40	4.15185 AU	retrograde	10631 Aug 16 03:27	7°  24'05'44	
opposition	10626 May 15 07:39	29°  13'1'02	0°47'55	opposition	10631 Oct 16 02:30	2°  24'12'38	-0°23'13
direct	10626 Jul 13 13:29	24°  13'22'11		min. Earth dist.	10631 Oct 17 16:44	2°  24'00'24	4.35942 AU
	10626 Sep 12 16:35	0° 			10631 Nov 02 23:49	30°  R 	
evening set	10626 Nov 16 23:20	13°  24'07'35		direct	10631 Dec 17 05:55	27°  24'07'12'26	
					10632 Jan 30 03:03	0° 	
conjunction	10626 Nov 30 12:07	16°  24'09'57	0°39'00		10632 Apr 19 22:33	15° 	
minimum elong	10626 Nov 30 12:06	16°  24'09'57	0°39'32	evening set	10632 Apr 20 13:58	15° 	08'38
max. Earth dist.	10626 Dec 02 14:03	16°  24'38'03	6.23889 AU	max. Earth dist.	10632 May 01 01:35	17°  24'08'30'18	6.28240 AU
morning rise	10626 Dec 14 00:33	19°  24'11'50					
	10627 Feb 04 12:58	0° 		conjunction	10632 May 03 09:01	18°  24'08'30'13'38	-0°26'09
retrograde	10627 Apr 17 17:30	7°  24'15'59		minimum elong	10632 May 03 09:00	18°  24'08'30'13'38	0°26'31
opposition	10627 Jun 16 23:23	2°  24'14'47	1°02'25	morning rise	10632 May 16 03:15	20°  24'08'54'33	
min. Earth dist.	10627 Jun 15 22:07	2°  24'23'10	4.32038 AU		10632 Jun 27 21:11	0° 	
	10627 Jul 04 13:26	30°  R 		retrograde	10632 Sep 17 22:44	9°  24'02'28	
direct	10627 Aug 16 12:46	27°  24'14'22		opposition	10632 Nov 17 11:48	4°  24'10'37	-0°51'13
	10627 Sep 28 18:20	0° 		min. Earth dist.	10632 Nov 19 01:43	3°  24'11'58'22	4.19707 AU
evening set	10627 Dec 20 09:09	15°  24'02'12			10632 Dec 25 23:56	30°  R 	
				direct	10633 Jan 17 14:58	29°  24'08'12'04	

	10633 Feb 09 03:52	0°♄			10638 Aug 07 13:48	0°♄	
evening set	10633 May 23 09:42	17°♄58'18		evening set	10638 Nov 21 18:06	17°♄49'31	
max. Earth dist.	10633 Jun 03 08:32	20°♄32'08	6.11144 AU				
				conjunction	10638 Dec 05 06:23	20°♄50'46	0°40'18
conjunction	10633 Jun 05 06:19	20°♄59'01	-0°40'21	minimum elong	10638 Dec 05 06:23	20°♄50'45	0°40'50
minimum elong	10633 Jun 05 06:19	20°♄59'01	0°40'54	max. Earth dist.	10638 Dec 07 06:18	21°♄17'34	6.26046 AU
morning rise	10633 Jun 18 03:21	24°♄00'17		morning rise	10638 Dec 18 18:14	23°♄51'28	
	10633 Jul 14 11:05	0°♄			10639 Jan 16 07:59	0°♄	
retrograde	10633 Oct 24 07:31	13°♄25'07		retrograde	10639 Apr 22 00:30	11°♄46'59	
opposition	10633 Dec 23 09:12	8°♄29'23	-1°04'09	min. Earth dist.	10639 Jun 20 08:34	6°♄54'12	4.34034 AU
min. Earth dist.	10633 Dec 24 07:52	8°♄21'57	4.03117 AU	opposition	10639 Jun 21 08:40	6°♄46'12	1°02'52
direct	10634 Feb 21 01:43	3°♄32'59		direct	10639 Aug 21 00:54	1°♄45'40	
evening set	10634 Jun 27 12:41	23°♄10'21		evening set	10639 Dec 24 21:09	19°♄28'21	
conjunction	10634 Jul 10 14:01	26°♄19'45	-0°41'03	conjunction	10640 Jan 07 04:54	22°♄21'38	0°42'12
minimum elong	10634 Jul 10 14:02	26°♄19'45	0°41'33	minimum elong	10640 Jan 07 04:55	22°♄21'38	0°42'44
max. Earth dist.	10634 Jul 09 20:17	26°♄09'00	5.96590 AU	max. Earth dist.	10640 Jan 08 02:44	22°♄33'29	6.40954 AU
morning rise	10634 Jul 23 17:01	29°♄30'15		morning rise	10640 Jan 20 11:12	25°♄13'59	
	10634 Jul 25 18:30	0°♄			10640 Feb 12 02:48	0°♄	
	10634 Oct 05 02:21	15°♄		retrograde	10640 May 21 06:54	12°♄15'37	
retrograde	10634 Dec 01 19:19	20°♄00'23		opposition	10640 Jul 20 23:41	7°♄18'05	0°56'08
opposition	10635 Jan 30 08:39	15°♄01'45	-0°53'14	min. Earth dist.	10640 Jul 20 18:48	7°♄19'40	4.46180 AU
min. Earth dist.	10635 Jan 30 08:01	15°♄01'57	3.92120 AU	direct	10640 Sep 20 20:08	2°♄16'51	
	10635 Jan 30 13:52	15°♄			10641 Jan 02 10:47	15°♄	
direct	10635 Mar 29 20:57	10°♄06'50		evening set	10641 Jan 24 03:37	19°♄30'32	
	10635 May 24 12:06	15°♄					
	10635 Aug 02 17:54	0°♄		conjunction	10641 Feb 06 06:31	22°♄18'36	0°32'23
evening set	10635 Aug 03 17:59	0°♄14'39		minimum elong	10641 Feb 06 06:32	22°♄18'36	0°32'45
				max. Earth dist.	10641 Feb 05 22:37	22°♄14'23	6.49489 AU
conjunction	10635 Aug 17 02:14	3°♄30'19	-0°25'41	morning rise	10641 Feb 19 07:33	25°♄05'41	
minimum elong	10635 Aug 17 02:15	3°♄30'19	0°25'58		10641 Mar 14 23:31	0°♄	
max. Earth dist.	10635 Aug 17 22:49	3°♄42'55	5.90298 AU	retrograde	10641 Jun 19 20:21	11°♄41'23	
morning rise	10635 Aug 30 12:38	6°♄47'13		opposition	10641 Aug 19 20:19	6°♄46'29	0°35'06
retrograde	10636 Jan 09 14:17	27°♄39'34		min. Earth dist.	10641 Aug 20 10:40	6°♄41'52	4.50676 AU
opposition	10636 Mar 08 22:00	22°♄37'37	-0°19'57	direct	10641 Oct 21 08:37	1°♄45'06	
min. Earth dist.	10636 Mar 07 21:33	22°♄45'54	3.91373 AU	evening set	10642 Feb 23 09:47	18°♄51'54	
direct	10636 May 05 20:32	17°♄42'29		max. Earth dist.	10642 Mar 06 23:46	21°♄20'38	6.49613 AU
	10636 Aug 07 13:45	0°♄					
evening set	10636 Sep 09 21:58	7°♄43'38		conjunction	10642 Mar 08 08:40	21°♄38'19	0°14'16
asc. node	10636 Sep 20 04:44	10°♄12'03		minimum elong	10642 Mar 08 08:40	21°♄38'19	0°14'24
				behind sun begin	10642 Mar 08 05:02	21°♄36'22	
conjunction	10636 Sep 23 11:29	10°♄59'32	0°00'14	behind sun end	10642 Mar 08 12:18	21°♄40'15	
minimum elong	10636 Sep 23 11:29	10°♄59'32	0°00'17	morning rise	10642 Mar 21 05:22	24°♄23'49	
behind sun begin	10636 Sep 23 03:09	10°♄54'31			10642 Apr 17 06:10	0°♄	
behind sun end	10636 Sep 23 19:50	11°♄04'32		retrograde	10642 Jul 19 21:27	11°♄04'15	
max. Earth dist.	10636 Sep 25 13:23	11°♄29'35	5.95109 AU	opposition	10642 Sep 18 23:50	6°♄10'53	0°05'07
morning rise	10636 Oct 07 03:11	14°♄16'18		min. Earth dist.	10642 Sep 20 06:17	6°♄01'09	4.46450 AU
	10636 Dec 21 21:58	0°♄		desc. node	10642 Nov 18 21:11	1°♄10'09	
retrograde	10637 Feb 14 15:49	4°♄34'16		direct	10642 Nov 20 14:30	1°♄09'53	
	10637 Apr 11 12:37	30°♄		evening set	10643 Mar 25 15:34	18°♄33'02	
min. Earth dist.	10637 Apr 13 14:04	29°♄43'14	4.01178 AU	max. Earth dist.	10643 Apr 05 07:33	20°♄52'55	6.41249 AU
opposition	10637 Apr 15 04:02	29°♄30'20	0°20'39				
direct	10637 Jun 12 11:49	24°♄33'19		conjunction	10643 Apr 07 11:26	21°♄21'22	-0°07'54
	10637 Aug 11 07:42	0°♄		minimum elong	10643 Apr 07 11:25	21°♄21'22	0°08'04
evening set	10637 Oct 17 07:59	13°♄54'51		behind sun begin	10643 Apr 07 04:18	21°♄17'29	
	10637 Oct 22 00:19	15°♄		behind sun end	10643 Apr 07 18:32	21°♄25'15	
				morning rise	10643 Apr 20 05:52	24°♄09'12	
conjunction	10637 Oct 30 22:51	17°♄04'50	0°25'17		10643 May 17 20:07	0°♄	
minimum elong	10637 Oct 30 22:50	17°♄04'50	0°25'39	retrograde	10643 Aug 20 14:02	11°♄25'07	
max. Earth dist.	10637 Nov 02 10:27	17°♄39'31	6.08869 AU	opposition	10643 Oct 20 11:18	6°♄31'59	-0°27'23
morning rise	10637 Nov 13 14:31	20°♄14'54		min. Earth dist.	10643 Oct 22 03:17	6°♄19'10	4.34391 AU
	10637 Dec 28 12:36	0°♄		direct	10643 Dec 21 13:35	1°♄31'54	
retrograde	10638 Mar 21 03:41	9°♄23'04			10644 Apr 04 04:47	15°♄	
opposition	10638 May 19 23:53	4°♄19'42	0°51'06	evening set	10644 Apr 24 20:37	19°♄32'49	
min. Earth dist.	10638 May 18 12:12	4°♄31'43	4.17367 AU	max. Earth dist.	10644 May 05 07:35	21°♄54'42	6.26325 AU
	10638 Jun 28 09:17	30°♄					
direct	10638 Jul 18 10:19	29°♄20'36		conjunction	10644 May 07 15:43	22°♄26'34	-0°28'33

minimum elong	10644 May 07 15:42	22°  26'34	0°28'57			10649 Dec 09 16:06	0° 	
morning rise	10644 May 20 10:05	25°  20'20		retrograde		10650 Mar 25 18:41	14°  15'57	
	10644 Jun 10 10:48	0°  II		min. Earth dist.		10650 May 23 05:10	9°  24'52	4.19553 AU
retrograde	10644 Sep 22 14:19	13°  II38'49		opposition		10650 May 24 17:13	9°  12'44	0°53'53
opposition	10644 Nov 22 03:03	8°  II44'46	-0°53'58	direct		10650 Jul 23 06:11	4°  13'22	
min. Earth dist.	10644 Nov 23 15:30	8°  II32'58	4.17548 AU	evening set		10650 Nov 26 14:14	22°  135'34	
direct	10645 Jan 22 00:49	3°  II46'27						
evening set	10645 May 27 22:46	22°  II39'36		conjunction		10650 Dec 10 01:55	25°  135'36	0°41'19
max. Earth dist.	10645 Jun 08 00:13	25°  II15'44	6.08915 AU	minimum elong		10650 Dec 10 01:54	25°  135'36	0°41'51
				max. Earth dist.		10650 Dec 11 22:31	26°  100'27	6.28293 AU
conjunction	10645 Jun 09 19:46	25°  II41'27	-0°41'18	morning rise		10650 Dec 23 13:05	28°  135'02	
minimum elong	10645 Jun 09 19:46	25°  II41'27	0°41'51			10650 Dec 29 23:48	0°  III	
morning rise	10645 Jun 22 17:24	28°  II43'58		retrograde		10651 Apr 26 10:15	16°  III21'29	
	10645 Jun 28 03:25	0°  III		opposition		10651 Jun 25 19:15	11°  III21'02	1°02'53
retrograde	10645 Oct 29 09:19	18°  III19'11		min. Earth dist.		10651 Jun 24 22:01	11°  III28'03	4.36129 AU
opposition	10645 Dec 28 08:17	13°  III23'09	-1°04'09	direct		10651 Aug 25 17:08	6°  III20'17	
min. Earth dist.	10645 Dec 29 05:39	13°  III16'07	4.00994 AU	evening set		10651 Dec 29 09:48	23°  III57'13	
direct	10646 Feb 25 21:23	8°  III26'56						
evening set	10646 Jul 02 09:41	28°  III11'18		conjunction		10652 Jan 11 16:54	26°  III49'30	0°41'24
	10646 Jul 09 21:11	0°  IV		minimum elong		10652 Jan 11 16:54	26°  III49'31	0°41'55
				max. Earth dist.		10652 Jan 12 11:32	26°  III59'35	6.42715 AU
conjunction	10646 Jul 15 12:05	1°  IV21'59	-0°39'52	morning rise		10652 Jan 24 22:22	29°  III40'50	
minimum elong	10646 Jul 15 12:06	1°  IV22'00	0°40'22			10652 Jan 26 10:06	0°  IV	
max. Earth dist.	10646 Jul 14 22:29	1°  IV13'44	5.94791 AU			10652 Apr 22 22:06	15°  IV	
morning rise	10646 Jul 28 16:06	4°  IV33'50		retrograde		10652 May 25 09:55	16°  IV36'24	
	10646 Sep 12 10:41	15°  IV				10652 Jun 26 19:57	15°  IVR	
retrograde	10646 Dec 07 02:56	25°  IV11'57		opposition		10652 Jul 25 05:26	11°  IV39'10	0°53'51
opposition	10647 Feb 04 13:34	20°  IV12'58	-0°49'52	min. Earth dist.		10652 Jul 25 02:28	11°  IV40'08	4.47481 AU
min. Earth dist.	10647 Feb 04 09:51	20°  IV14'13	3.90858 AU	direct		10652 Sep 25 04:18	6°  IV37'50	
direct	10647 Apr 03 21:24	15°  IV18'10				10652 Dec 15 06:39	15°  IV	
	10647 Jul 16 21:01	0°  V		evening set		10653 Jan 28 11:00	23°  IV48'29	
evening set	10647 Aug 08 22:03	5°  V19'50						
				conjunction		10653 Feb 10 13:16	26°  IV36'00	0°30'12
conjunction	10647 Aug 22 07:10	8°  V46'16	-0°22'35	minimum elong		10653 Feb 10 13:17	26°  IV36'00	0°30'32
minimum elong	10647 Aug 22 07:11	8°  V46'16	0°22'49	max. Earth dist.		10653 Feb 10 02:07	26°  IV30'02	6.50229 AU
max. Earth dist.	10647 Aug 23 06:51	9°  V00'47	5.89694 AU	morning rise		10653 Feb 23 13:30	29°  IV22'31	
morning rise	10647 Sep 04 18:48	12°  V03'59				10653 Feb 26 12:20	0°  V	
	10647 Dec 02 12:55	0°  V		retrograde		10653 Jun 24 00:19	15°  V56'16	
retrograde	10648 Jan 14 19:32	2°  V57'39		opposition		10653 Aug 24 00:57	11°  V01'38	0°31'13
	10648 Feb 27 08:32	30°  VR		min. Earth dist.		10653 Aug 24 18:10	10°  V56'06	4.50799 AU
min. Earth dist.	10648 Mar 12 23:57	28°  VR04'41	3.91502 AU	direct		10653 Oct 25 15:29	6°  V00'15	
opposition	10648 Mar 14 03:34	27°  VR55'19	-0°14'27	evening set		10654 Feb 27 14:58	23°  V07'16	
direct	10648 May 11 01:00	23°  VR00'00		max. Earth dist.		10654 Mar 10 23:31	25°  V33'22	6.49089 AU
	10648 Jul 17 20:19	0°  V						
asc. node	10648 Jul 31 09:22	2°  V38'40		conjunction		10654 Mar 12 13:13	25°  V53'39	0°11'16
evening set	10648 Sep 15 04:25	13°  V00'01		minimum elong		10654 Mar 12 13:13	25°  V53'39	0°11'21
				behind sun begin		10654 Mar 12 07:23	25°  V50'32	
conjunction	10648 Sep 28 18:38	16°  V15'48	0°04'01	behind sun end		10654 Mar 12 19:03	25°  V56'46	
minimum elong	10648 Sep 28 18:38	16°  V15'48	0°04'08	morning rise		10654 Mar 25 09:38	28°  V39'13	
behind sun begin	10648 Sep 28 10:23	16°  V10'51				10654 Mar 31 17:28	0°  V	
behind sun end	10648 Sep 29 02:54	16°  V20'44		retrograde		10654 Jul 24 05:42	15°  V22'18	
max. Earth dist.	10648 Oct 01 00:08	16°  V47'57	5.95971 AU	opposition		10654 Sep 23 07:06	10°  V28'57	0°00'31
morning rise	10648 Oct 12 10:39	19°  V32'18		min. Earth dist.		10654 Sep 24 15:49	10°  V18'30	4.45301 AU
	10648 Nov 28 04:18	0°  VI		desc. node		10654 Sep 29 08:02	9°  V42'47	
retrograde	10649 Feb 19 17:34	9°  VI44'22		direct		10654 Nov 24 21:22	5°  V27'57	
min. Earth dist.	10649 Apr 18 14:49	4°  VI53'15	4.02645 AU	evening set		10655 Mar 29 22:08	22°  V54'49	
opposition	10649 Apr 20 04:54	4°  VI40'18	0°25'45	max. Earth dist.		10655 Apr 09 13:05	25°  V14'38	6.39550 AU
	10649 Jun 04 17:28	30°  VR						
direct	10649 Jun 17 15:49	29°  V42'59		conjunction		10655 Apr 11 17:54	25°  V43'42	-0°11'01
	10649 Jun 30 14:12	0°  VI		minimum elong		10655 Apr 11 17:53	25°  V43'42	0°11'14
	10649 Oct 04 22:24	15°  VI		behind sun begin		10655 Apr 11 11:58	25°  V40'28	
evening set	10649 Oct 22 11:10	18°  VI59'16		behind sun end		10655 Apr 11 23:48	25°  V46'57	
				morning rise		10655 Apr 24 12:01	28°  V32'06	
conjunction	10649 Nov 05 01:59	22°  VI08'20	0°28'05			10655 May 01 05:17	0°  VI	
minimum elong	10649 Nov 05 01:58	22°  VI08'19	0°28'29			10655 Jul 31 16:34	15°  VI	
max. Earth dist.	10649 Nov 07 14:42	22°  VI43'29	6.10798 AU	retrograde		10655 Aug 25 03:02	15°  VI55'03	
morning rise	10649 Nov 18 17:25	25°  VI17'22				10655 Sep 18 13:58	15°  VIR	

opposition	10655 Oct 25 00:19	11°♄01'50 -0°31'41	direct	10661 Jun 22 19:08	4°♄53'07	
min. Earth dist.	10655 Oct 26 16:20	10°♄49'01 4.32243 AU		10661 Sep 16 07:00	15°♄	
direct	10655 Dec 25 22:33	6°♄01'57	evening set	10661 Oct 27 13:42	24°♄01'07	
	10656 Mar 17 05:26	15°♄				
evening set	10656 Apr 29 08:31	24°♄09'34	conjunction	10661 Nov 10 04:04	27°♄08'48	0°30'42
max. Earth dist.	10656 May 09 19:31	26°♄32'18 6.23881 AU	minimum elong	10661 Nov 10 04:03	27°♄08'47	0°31'09
			max. Earth dist.	10661 Nov 12 14:49	27°♄42'37	6.13467 AU
conjunction	10656 May 12 03:35	27°♄04'19 -0°30'58		10661 Nov 22 14:20	0°♄	
minimum elong	10656 May 12 03:34	27°♄04'18 0°31'24	morning rise	10661 Nov 23 19:05	0°♄16'24	
morning rise	10656 May 24 22:17	29°♄59'11	retrograde	10662 Mar 30 08:43	19°♄03'16	
	10656 May 24 23:43	0°♄	min. Earth dist.	10662 May 27 23:02	14°♄11'42	4.22292 AU
retrograde	10656 Sep 27 14:49	18°♄28'13	opposition	10662 May 29 08:52	14°♄00'20	0°56'17
opposition	10656 Nov 27 00:48	13°♄33'56 -0°56'36	direct	10662 Jul 28 03:44	9°♄00'43	
min. Earth dist.	10656 Nov 28 12:42	13°♄22'17 4.14969 AU	evening set	10662 Dec 01 07:41	27°♄14'42	
direct	10657 Jan 26 19:09	8°♄35'50		10662 Dec 13 18:38	0°♄	
evening set	10657 Jun 01 18:18	27°♄37'10				
	10657 Jun 11 19:56	0°♄	conjunction	10662 Dec 14 18:50	0°♄13'24	0°42'04
max. Earth dist.	10657 Jun 12 23:39	0°♄16'27 6.06437 AU	minimum elong	10662 Dec 14 18:50	0°♄13'24	0°42'37
			max. Earth dist.	10662 Dec 16 13:34	0°♄37'05	6.30880 AU
conjunction	10657 Jun 14 16:03	0°♄40'25 -0°42'02	morning rise	10662 Dec 28 05:03	3°♄11'24	
minimum elong	10657 Jun 14 16:03	0°♄40'25 0°42'35	retrograde	10663 Apr 30 14:57	20°♄48'17	
morning rise	10657 Jun 27 14:23	3°♄44'21	min. Earth dist.	10663 Jun 29 07:21	15°♄54'45	4.38370 AU
retrograde	10657 Nov 03 17:55	23°♄30'38	opposition	10663 Jun 30 02:52	15°♄48'19	1°02'32
opposition	10658 Jan 02 14:47	18°♄34'18 -1°03'40	direct	10663 Aug 30 04:16	10°♄47'28	
min. Earth dist.	10658 Jan 03 08:53	18°♄28'20 3.98869 AU	evening set	10664 Jan 02 19:32	28°♄18'43	
direct	10658 Mar 02 22:15	13°♄38'24		10664 Jan 10 15:59	0°♄	
	10658 Jun 22 23:57	0°♄				
evening set	10658 Jul 07 14:01	3°♄29'23	conjunction	10664 Jan 16 01:47	1°♄10'01	0°40'24
			minimum elong	10664 Jan 16 01:47	1°♄10'02	0°40'54
conjunction	10658 Jul 20 17:12	6°♄41'14 -0°38'18	max. Earth dist.	10664 Jan 16 14:58	1°♄17'08	6.44443 AU
minimum elong	10658 Jul 20 17:13	6°♄41'15 0°38'46	morning rise	10664 Jan 29 06:32	4°♄00'24	
max. Earth dist.	10658 Jul 20 07:40	6°♄35'25 5.93228 AU		10664 Mar 25 18:12	15°♄	
morning rise	10658 Aug 02 22:28	9°♄54'22	retrograde	10664 May 29 13:20	20°♄50'38	
	10658 Aug 24 08:26	15°♄	opposition	10664 Jul 29 09:05	15°♄53'52	0°51'20
	10658 Nov 22 16:57	0°♄	min. Earth dist.	10664 Jul 29 10:08	15°♄53'32	4.48593 AU
retrograde	10658 Dec 12 14:17	0°♄39'04		10664 Aug 05 08:10	15°♄	
	10659 Jan 01 11:31	30°♄♄	direct	10664 Sep 29 12:17	10°♄52'30	
opposition	10659 Feb 10 00:53	25°♄39'35 -0°45'49		10664 Nov 23 06:16	15°♄	
min. Earth dist.	10659 Feb 09 16:50	25°♄42'17 3.90061 AU	evening set	10665 Feb 01 15:49	28°♄00'58	
direct	10659 Apr 09 05:39	20°♄44'51		10665 Feb 10 23:27	0°♄	
	10659 Jun 27 08:19	0°♄				
evening set	10659 Aug 14 08:00	10°♄58'09	conjunction	10665 Feb 14 17:30	0°♄48'06	0°27'54
			minimum elong	10665 Feb 14 17:31	0°♄48'07	0°28'13
conjunction	10659 Aug 27 18:11	14°♄15'01 -0°19'06	max. Earth dist.	10665 Feb 14 01:44	0°♄39'41	6.50636 AU
minimum elong	10659 Aug 27 18:12	14°♄15'02 0°19'18	morning rise	10665 Feb 27 17:09	3°♄34'15	
max. Earth dist.	10659 Aug 29 00:29	14°♄33'34 5.89778 AU	retrograde	10665 Jun 28 02:48	20°♄07'35	
morning rise	10659 Sep 10 06:34	17°♄33'04	opposition	10665 Aug 28 04:18	15°♄13'11	0°27'16
	10659 Nov 04 19:24	0°♄	min. Earth dist.	10665 Aug 28 23:43	15°♄06'58	4.50496 AU
retrograde	10660 Jan 20 06:00	8°♄24'29	direct	10665 Oct 29 18:58	10°♄11'50	
min. Earth dist.	10660 Mar 18 07:21	3°♄31'49 3.92472 AU	evening set	10666 Mar 03 19:02	27°♄20'37	
opposition	10660 Mar 19 12:51	3°♄21'48 -0°08'33	max. Earth dist.	10666 Mar 15 01:09	29°♄45'44	6.48094 AU
	10660 Apr 15 22:51	30°♄♄				
direct	10660 May 16 11:48	28°♄26'18	conjunction	10666 Mar 16 16:56	0°♄07'12	0°08'15
asc. node	10660 Jun 09 01:48	29°♄23'12	minimum elong	10666 Mar 16 16:57	0°♄07'12	0°08'18
	10660 Jun 15 23:20	0°♄	behind sun begin	10666 Mar 16 09:54	0°♄03'25	
evening set	10660 Sep 20 13:41	18°♄21'38	behind sun end	10666 Mar 16 23:59	0°♄10'59	
				10666 Mar 16 03:34	0°♄	
conjunction	10660 Oct 04 04:15	21°♄36'45 0°07'50	morning rise	10666 Mar 29 12:49	2°♄52'59	
minimum elong	10660 Oct 04 04:14	21°♄36'45 0°08'00	retrograde	10666 Jul 28 13:09	19°♄40'25	
behind sun begin	10660 Oct 03 20:46	21°♄32'18	desc. node	10666 Aug 10 10:34	19°♄24'58	
behind sun end	10660 Oct 04 11:42	21°♄41'11	opposition	10666 Sep 27 14:14	14°♄47'14	-0°04'05
max. Earth dist.	10660 Oct 06 13:21	22°♄10'54 5.97716 AU	min. Earth dist.	10666 Sep 29 01:02	14°♄36'08	4.43667 AU
morning rise	10660 Oct 17 20:31	24°♄52'29	direct	10666 Nov 29 03:09	9°♄46'24	
	10660 Nov 08 22:27	0°♄	evening set	10667 Apr 03 05:22	27°♄18'41	
retrograde	10661 Feb 24 16:40	14°♄54'49	max. Earth dist.	10667 Apr 13 17:13	29°♄37'32	6.37383 AU
min. Earth dist.	10661 Apr 23 14:25	10°♄04'11 4.04972 AU		10667 Apr 15 09:46	0°♄	
opposition	10661 Apr 25 06:08	9°♄50'43 0°30'44				

conjunction	10667 Apr 16 00:48	0°♄08'19 -0°14'05	behind sun begin	10672 Oct 09 06:06	26°♄49'39	
minimum elong	10667 Apr 16 00:47	0°♄08'18 0°14'19	behind sun end	10672 Oct 09 17:44	26°♄56'33	
behind sun begin	10667 Apr 15 20:58	0°♄06'12	max. Earth dist.	10672 Oct 11 21:32	27°♄27'23	5.99820 AU
behind sun end	10667 Apr 16 04:36	0°♄10'24		10672 Oct 22 15:02	0°♄	
morning rise	10667 Apr 28 19:03	2°♄57'35	morning rise	10672 Oct 23 04:17	0°♄07'49	
	10667 Jun 28 12:22	15°♄		10673 Jan 02 22:54	15°♄	
retrograde	10667 Aug 29 20:01	20°♄29'25	retrograde	10673 Mar 01 13:21	19°♄59'22	
opposition	10667 Oct 29 15:11	15°♄36'07 -0°35'51	min. Earth dist.	10673 Apr 28 13:42	15°♄08'28	4.07456 AU
min. Earth dist.	10667 Oct 31 07:38	15°♄23'07 4.29670 AU		10673 Apr 29 14:40	15°♄	
	10667 Nov 03 07:48	15°♄	opposition	10673 Apr 30 04:44	14°♄55'14	0°35'24
direct	10667 Dec 30 10:18	10°♄36'25	direct	10673 Jun 27 22:19	9°♄57'16	
	10668 Feb 23 18:02	15°♄		10673 Aug 24 19:37	15°♄	
evening set	10668 May 03 22:01	28°♄52'13	evening set	10673 Nov 01 13:44	28°♄56'50	
	10668 May 08 20:50	0°♄		10673 Nov 06 04:33	0°♄	
max. Earth dist.	10668 May 14 11:23	1°♄17'09 6.21116 AU				
conjunction	10668 May 16 17:28	1°♄48'13 -0°33'12	conjunction	10673 Nov 15 03:55	2°♄03'12	0°33'05
minimum elong	10668 May 16 17:27	1°♄48'13 0°33'40	minimum elong	10673 Nov 15 03:54	2°♄03'11	0°33'33
morning rise	10668 May 29 12:24	4°♄44'22	max. Earth dist.	10673 Nov 17 14:25	2°♄36'40	6.16114 AU
retrograde	10668 Oct 02 16:49	23°♄25'09	morning rise	10673 Nov 28 18:13	5°♄09'18	
opposition	10668 Dec 02 01:18	18°♄30'42 -0°58'53	retrograde	10674 Apr 03 20:09	23°♄44'54	
min. Earth dist.	10668 Dec 03 11:12	18°♄19'41 4.12244 AU	opposition	10674 Jun 02 22:11	18°♄42'21	0°58'18
direct	10669 Jan 31 14:10	13°♄32'59	min. Earth dist.	10674 Jun 01 13:37	18°♄53'14	4.24860 AU
	10669 May 26 02:38	0°♄	direct	10674 Aug 01 21:21	13°♄42'31	
evening set	10669 Jun 06 16:55	2°♄42'58	evening set	10674 Nov 27 14:55	0°♄	
max. Earth dist.	10669 Jun 18 01:49	5°♄25'17 6.03997 AU		10674 Dec 05 23:21	1°♄49'11	
conjunction	10669 Jun 19 15:09	5°♄47'33 -0°42'28	conjunction	10674 Dec 19 09:41	4°♄46'39	0°42'34
minimum elong	10669 Jun 19 15:09	5°♄47'33 0°43'01	minimum elong	10674 Dec 19 09:41	4°♄46'39	0°43'08
morning rise	10669 Jul 02 14:28	8°♄52'59	max. Earth dist.	10674 Dec 20 23:08	5°♄07'17	6.33162 AU
retrograde	10669 Nov 09 04:41	28°♄50'02	morning rise	10675 Jan 01 19:19	7°♄43'25	
opposition	10670 Jan 07 23:49	23°♄53'16 -1°02'37	retrograde	10675 May 04 20:57	25°♄12'07	
min. Earth dist.	10670 Jan 08 13:49	23°♄48'38 3.96968 AU	opposition	10675 Jul 04 09:46	20°♄12'35	1°01'53
direct	10670 Mar 08 02:51	18°♄57'36	min. Earth dist.	10675 Jul 03 17:45	20°♄17'51	4.40217 AU
	10670 Jun 04 10:43	0°♄	direct	10675 Sep 03 16:03	15°♄11'35	
evening set	10670 Jul 12 20:40	8°♄54'02	evening set	10675 Dec 25 16:57	0°♄	
				10676 Jan 07 04:25	2°♄38'24	
conjunction	10670 Jul 26 01:00	12°♄06'57 -0°36'23	conjunction	10676 Jan 20 10:10	5°♄28'58	0°39'12
minimum elong	10670 Jul 26 01:01	12°♄06'58 0°36'49	minimum elong	10676 Jan 20 10:11	5°♄28'59	0°39'40
max. Earth dist.	10670 Jul 25 22:55	12°♄05'41 5.92082 AU	max. Earth dist.	10676 Jan 20 20:11	5°♄34'21	6.45734 AU
	10670 Aug 06 20:29	15°♄	morning rise	10676 Feb 02 14:02	8°♄18'33	
morning rise	10670 Aug 08 07:10	15°♄21'04		10676 Mar 06 04:03	15°♄	
	10670 Oct 14 18:06	0°♄	retrograde	10676 Jun 02 15:06	25°♄04'53	
retrograde	10670 Dec 18 04:17	6°♄09'56	opposition	10676 Aug 02 12:53	20°♄08'30	0°48'34
opposition	10671 Feb 15 13:11	1°♄09'55 -0°41'19	min. Earth dist.	10676 Aug 02 15:55	20°♄07'31	4.49270 AU
min. Earth dist.	10671 Feb 15 02:02	1°♄13'40 3.89815 AU	direct	10676 Oct 03 17:36	15°♄07'08	
	10671 Feb 24 07:04	30°♄		10677 Jan 26 05:05	0°♄	
direct	10671 Apr 14 16:20	26°♄15'12	evening set	10677 Feb 05 21:30	2°♄14'40	
	10671 Jun 01 18:52	0°♄				
evening set	10671 Aug 19 18:19	16°♄27'33	conjunction	10677 Feb 18 22:32	5°♄01'34	0°25'26
conjunction	10671 Sep 02 05:14	19°♄44'29 -0°15'27	minimum elong	10677 Feb 18 22:33	5°♄01'34	0°25'43
minimum elong	10671 Sep 02 05:15	19°♄44'29 0°15'36	max. Earth dist.	10677 Feb 18 02:18	4°♄50'45	6.50656 AU
behind sun begin	10671 Sep 02 03:21	19°♄43'20	morning rise	10677 Mar 03 21:38	7°♄47'31	
behind sun end	10671 Sep 02 07:08	19°♄45'38	retrograde	10677 Jul 02 08:22	24°♄21'30	
max. Earth dist.	10671 Sep 03 16:28	20°♄05'59 5.90429 AU	opposition	10677 Sep 01 09:16	19°♄27'23	0°23'07
morning rise	10671 Sep 15 18:30	23°♄02'34	min. Earth dist.	10677 Sep 02 08:06	19°♄20'04	4.49862 AU
	10671 Oct 15 09:12	0°♄	direct	10677 Nov 03 01:24	14°♄26'05	
retrograde	10672 Jan 25 12:32	13°♄48'54		10678 Feb 28 09:44	0°♄	
min. Earth dist.	10672 Mar 23 11:52	8°♄56'57 3.93942 AU	evening set	10678 Mar 08 00:41	1°♄37'27	
opposition	10672 Mar 24 20:36	8°♄45'50 -0°02'37	max. Earth dist.	10678 Mar 19 02:38	4°♄00'49	6.46840 AU
asc. node	10672 Apr 18 19:00	5°♄38'57	conjunction	10678 Mar 20 22:10	4°♄24'21	0°05'08
direct	10672 May 21 19:41	3°♄50'03	minimum elong	10678 Mar 20 22:11	4°♄24'22	0°05'08
evening set	10672 Sep 25 21:18	23°♄38'58	behind sun begin	10678 Mar 20 14:26	4°♄20'11	
			behind sun end	10678 Mar 21 05:56	4°♄28'32	
conjunction	10672 Oct 09 11:56	26°♄53'07 0°11'33	morning rise	10678 Apr 02 17:51	7°♄10'32	
minimum elong	10672 Oct 09 11:55	26°♄53'06 0°11'45	desc. node	10678 Jun 20 00:28	21°♄20'14	

retrograde	10678 Aug 01 23:10	24° $\Upsilon$ 03'12	evening set	10684 Sep 30 23:32	28° $\Omega$ 43'24	
opposition	10678 Oct 01 23:56	19° $\Upsilon$ 10'03 -0°08'46		10684 Oct 06 09:25	0° $\mathbb{M}$	
min. Earth dist.	10678 Oct 03 11:32	18° $\Upsilon$ 58'40 4.41876 AU				
direct	10678 Dec 03 10:25	14° $\Upsilon$ 09'22	conjunction	10684 Oct 14 14:27	1° $\mathbb{M}$ 56'34 0°15'00	
	10679 Mar 30 10:15	0° $\mathcal{B}$	minimum elong	10684 Oct 14 14:26	1° $\mathbb{M}$ 56'33 0°15'15	
evening set	10679 Apr 07 14:33	1° $\mathcal{B}$ 47'24	behind sun begin	10684 Oct 14 12:03	1° $\mathbb{M}$ 55'09	
max. Earth dist.	10679 Apr 18 03:11	4° $\mathcal{B}$ 07'22 6.35195 AU	behind sun end	10684 Oct 14 16:48	1° $\mathbb{M}$ 57'57	
			max. Earth dist.	10684 Oct 17 02:08	2° $\mathbb{M}$ 31'53 6.02049 AU	
conjunction	10679 Apr 20 09:58	4° $\mathcal{B}$ 37'51 -0°17'09	morning rise	10684 Oct 28 06:35	5° $\mathbb{M}$ 10'08	
minimum elong	10679 Apr 20 09:58	4° $\mathcal{B}$ 37'50 0°17'25		10684 Dec 11 17:25	15° $\mathbb{M}$	
morning rise	10679 May 03 04:02	7° $\mathcal{B}$ 27'56	retrograde	10685 Mar 06 05:49	24° $\mathbb{M}$ 51'02	
	10679 Jun 07 16:22	15° $\mathcal{B}$	min. Earth dist.	10685 May 03 07:36	20° $\mathbb{M}$ 00'06 4.09892 AU	
retrograde	10679 Sep 03 14:36	25° $\mathcal{B}$ 08'46	opposition	10685 May 04 22:06	19° $\mathbb{M}$ 47'05 0°39'35	
opposition	10679 Nov 03 08:34	20° $\mathcal{B}$ 15'29 -0°39'55		10685 Jun 22 06:55	15° $\mathbb{R}$ $\mathbb{M}$	
min. Earth dist.	10679 Nov 05 00:53	20° $\mathcal{B}$ 02'32 4.27247 AU	direct	10685 Jul 02 19:23	14° $\mathbb{M}$ 48'54	
direct	10680 Jan 04 00:10	15° $\mathcal{B}$ 16'09		10685 Jul 13 08:43	15° $\mathbb{M}$	
	10680 Apr 22 08:14	0° $\mathbb{I}$		10685 Oct 20 21:46	0° $\mathcal{X}$	
evening set	10680 May 08 13:55	3° $\mathbb{I}$ 39'29	evening set	10685 Nov 06 08:39	3° $\mathcal{X}$ 40'42	
max. Earth dist.	10680 May 19 04:04	6° $\mathbb{I}$ 05'47 6.18664 AU				
			conjunction	10685 Nov 19 22:17	6° $\mathcal{X}$ 45'48 0°35'08	
conjunction	10680 May 21 09:25	6° $\mathbb{I}$ 36'35 -0°35'17	minimum elong	10685 Nov 19 22:15	6° $\mathcal{X}$ 45'47 0°35'37	
minimum elong	10680 May 21 09:24	6° $\mathbb{I}$ 36'35 0°35'46	max. Earth dist.	10685 Nov 22 05:12	7° $\mathcal{X}$ 17'03 6.18526 AU	
morning rise	10680 Jun 03 04:54	9° $\mathbb{I}$ 33'58	morning rise	10685 Dec 03 12:13	9° $\mathcal{X}$ 50'38	
retrograde	10680 Oct 07 20:30	28° $\mathbb{I}$ 25'26	retrograde	10686 Apr 08 03:36	28° $\mathcal{X}$ 16'32	
opposition	10680 Dec 07 03:29	23° $\mathbb{I}$ 30'44 -1°00'49	min. Earth dist.	10686 Jun 06 01:01	23° $\mathcal{X}$ 24'29 4.27060 AU	
min. Earth dist.	10680 Dec 08 10:22	23° $\mathbb{I}$ 20'40 4.09983 AU	opposition	10686 Jun 07 07:18	23° $\mathcal{X}$ 14'22 0°59'55	
direct	10681 Feb 05 11:46	18° $\mathbb{I}$ 33'22	direct	10686 Aug 06 10:46	18° $\mathcal{X}$ 14'19	
	10681 May 08 06:38	0° $\mathcal{E}$		10686 Nov 10 22:27	0° $\mathcal{Z}$	
evening set	10681 Jun 11 16:11	7° $\mathcal{E}$ 50'08	evening set	10686 Dec 10 10:58	6° $\mathcal{Z}$ 15'15	
max. Earth dist.	10681 Jun 23 07:57	10° $\mathcal{E}$ 37'09 6.02161 AU				
			conjunction	10686 Dec 23 20:54	9° $\mathcal{Z}$ 11'45 0°42'50	
conjunction	10681 Jun 24 15:12	10° $\mathcal{E}$ 55'53 -0°42'37	minimum elong	10686 Dec 23 20:53	9° $\mathcal{Z}$ 11'45 0°43'24	
minimum elong	10681 Jun 24 15:12	10° $\mathcal{E}$ 55'53 0°43'11	max. Earth dist.	10686 Dec 25 07:31	9° $\mathcal{Z}$ 30'47 6.35007 AU	
morning rise	10681 Jul 07 15:09	14° $\mathcal{E}$ 02'28	morning rise	10687 Jan 06 05:37	12° $\mathcal{Z}$ 07'28	
	10681 Sep 23 09:15	0° $\mathcal{O}$	retrograde	10687 May 08 23:59	29° $\mathcal{Z}$ 29'44	
retrograde	10681 Nov 14 15:40	4° $\mathcal{O}$ 07'47	opposition	10687 Jul 08 13:45	24° $\mathcal{Z}$ 30'44 1°00'59	
	10682 Jan 07 02:45	30° $\mathbb{R}$ $\mathcal{E}$	min. Earth dist.	10687 Jul 08 00:05	24° $\mathcal{Z}$ 35'13 4.41598 AU	
opposition	10682 Jan 13 08:33	29° $\mathcal{E}$ 10'38 -1°01'07	direct	10687 Sep 07 23:00	19° $\mathcal{Z}$ 29'41	
min. Earth dist.	10682 Jan 13 19:33	29° $\mathcal{E}$ 06'59 3.95768 AU		10687 Dec 08 20:40	0° $\approx$	
direct	10682 Mar 13 07:57	24° $\mathcal{E}$ 15'16	evening set	10688 Jan 11 11:08	6° $\approx$ 53'40	
	10682 May 13 10:06	0° $\mathcal{O}$				
evening set	10682 Jul 18 01:57	14° $\mathcal{O}$ 14'22	conjunction	10688 Jan 24 16:07	9° $\approx$ 43'40 0°37'51	
	10682 Jul 21 04:57	15° $\mathcal{O}$	minimum elong	10688 Jan 24 16:08	9° $\approx$ 43'40 0°38'19	
			max. Earth dist.	10688 Jan 24 20:26	9° $\approx$ 45'59 6.46565 AU	
conjunction	10682 Jul 31 07:01	17° $\mathcal{O}$ 27'53 -0°34'14	morning rise	10688 Feb 06 19:31	12° $\approx$ 32'43	
minimum elong	10682 Jul 31 07:02	17° $\mathcal{O}$ 27'54 0°34'38		10688 Feb 18 10:21	15° $\approx$	
max. Earth dist.	10682 Jul 31 09:42	17° $\mathcal{O}$ 29'32 5.91630 AU	retrograde	10688 Jun 06 18:26	29° $\approx$ 16'41	
morning rise	10682 Aug 13 14:16	20° $\mathcal{O}$ 42'42	opposition	10688 Aug 06 15:39	24° $\approx$ 20'42 0°45'40	
	10682 Sep 22 16:24	0° $\mathbb{P}$	min. Earth dist.	10688 Aug 06 22:10	24° $\approx$ 18'35 4.49533 AU	
retrograde	10682 Dec 23 12:22	11° $\mathbb{P}$ 32'42	direct	10688 Oct 07 22:49	19° $\approx$ 19'16	
opposition	10683 Feb 20 21:58	6° $\mathbb{P}$ 32'15 -0°36'37		10689 Jan 09 12:27	0° $\mathcal{H}$	
min. Earth dist.	10683 Feb 20 06:25	6° $\mathbb{P}$ 37'29 3.90195 AU	evening set	10689 Feb 10 01:46	6° $\mathcal{H}$ 26'59	
direct	10683 Apr 19 23:05	1° $\mathbb{P}$ 37'31	max. Earth dist.	10689 Feb 22 03:44	9° $\mathcal{H}$ 01'41 6.50342 AU	
evening set	10683 Aug 25 00:58	21° $\mathbb{P}$ 46'53				
			conjunction	10689 Feb 23 02:27	9° $\mathcal{H}$ 13'50 0°22'55	
conjunction	10683 Sep 07 12:27	25° $\mathbb{P}$ 03'32 -0°11'51	minimum elong	10689 Feb 23 02:28	9° $\mathcal{H}$ 13'50 0°23'09	
minimum elong	10683 Sep 07 12:28	25° $\mathbb{P}$ 03'32 0°11'56	morning rise	10689 Mar 08 00:57	11° $\mathcal{H}$ 59'43	
behind sun begin	10683 Sep 07 06:44	25° $\mathbb{P}$ 00'04	retrograde	10689 Jul 06 11:46	28° $\mathcal{H}$ 35'19	
behind sun end	10683 Sep 07 18:12	25° $\mathbb{P}$ 07'01	opposition	10689 Sep 05 13:51	23° $\mathcal{H}$ 41'22 0°18'56	
max. Earth dist.	10683 Sep 09 03:00	25° $\mathbb{P}$ 27'00 5.91585 AU	min. Earth dist.	10689 Sep 06 13:40	23° $\mathcal{H}$ 33'45 4.49013 AU	
morning rise	10683 Sep 21 02:18	28° $\mathbb{P}$ 21'18	direct	10689 Nov 07 04:51	18° $\mathcal{H}$ 40'08	
	10683 Sep 27 22:41	0° $\mathcal{A}$		10690 Feb 11 20:11	0° $\Upsilon$	
retrograde	10684 Jan 30 13:36	19° $\mathcal{A}$ 00'56	evening set	10690 Mar 12 05:58	5° $\Upsilon$ 54'27	
asc. node	10684 Feb 29 22:48	17° $\mathcal{A}$ 30'14	max. Earth dist.	10690 Mar 23 06:13	8° $\Upsilon$ 17'21 6.45514 AU	
opposition	10684 Mar 29 23:07	13° $\mathcal{A}$ 57'34 0°03'02				
min. Earth dist.	10684 Mar 28 13:28	14° $\mathcal{A}$ 09'01 3.95724 AU	conjunction	10690 Mar 25 03:04	8° $\Upsilon$ 41'42 0°02'01	
direct	10684 May 27 00:47	9° $\mathcal{A}$ 01'31	minimum elong	10690 Mar 25 03:03	8° $\Upsilon$ 41'41 0°01'59	



behind sun begin	10690 Mar 24 19:04	8°♄37'22	morning rise	10695 Sep 26 09:47	3°♂37'58	
behind sun end	10690 Mar 25 11:02	8°♄46'00	asc. node	10696 Jan 11 04:04	23°♂13'09	
morning rise	10690 Apr 06 22:22	11°♄28'14	retrograde	10696 Feb 04 16:10	24°♂12'10	
desc. node	10690 Apr 29 12:55	16°♄14'32	min. Earth dist.	10696 Apr 02 14:31	19°♂20'31	3.97153 AU
retrograde	10690 Aug 06 09:48	28°♄26'05	opposition	10696 Apr 04 01:33	19°♂08'37	0°08'41
opposition	10690 Oct 06 09:26	23°♄32'59 -0°13'21	direct	10696 Jun 01 04:07	14°♂12'20	
min. Earth dist.	10690 Oct 07 22:46	23°♄21'03 4.40142 AU		10696 Sep 19 15:48	0°♂	
direct	10690 Dec 07 19:15	18°♄32'24	evening set	10696 Oct 06 03:00	3°♂48'44	
	10691 Mar 13 16:12	0°♂				
evening set	10691 Apr 11 23:18	6°♂15'37	conjunction	10696 Oct 19 17:50	7°♂01'03	0°18'23
max. Earth dist.	10691 Apr 22 10:15	8°♂35'20 6.33161 AU	minimum elong	10696 Oct 19 17:49	7°♂01'02	0°18'42
			max. Earth dist.	10696 Oct 22 04:58	7°♂35'51	6.03921 AU
conjunction	10691 Apr 24 18:32	9°♂06'47 -0°20'04	morning rise	10696 Nov 02 10:07	10°♂13'43	
minimum elong	10691 Apr 24 18:31	9°♂06'46 0°20'23		10696 Nov 23 06:37	15°♂	
morning rise	10691 May 07 12:43	11°♂57'42	retrograde	10697 Mar 10 22:24	29°♂45'15	
	10691 May 21 08:14	15°♂	min. Earth dist.	10697 May 08 02:13	24°♂54'25	4.12013 AU
retrograde	10691 Sep 08 07:40	29°♂46'46	opposition	10697 May 09 16:34	24°♂41'26	0°43'32
opposition	10691 Nov 08 01:09	24°♂53'15 -0°43'40	direct	10697 Jul 07 17:14	19°♂42'57	
min. Earth dist.	10691 Nov 09 16:02	24°♂40'43 4.25030 AU		10697 Oct 02 22:12	0°♂	
direct	10692 Jan 08 12:39	19°♂54'04	evening set	10697 Nov 11 05:44	8°♂28'17	
	10692 Apr 04 17:13	0°♂				
evening set	10692 May 13 04:16	8°♂23'59	conjunction	10697 Nov 24 19:07	11°♂32'17	0°36'59
max. Earth dist.	10692 May 23 22:08	10°♂53'06 6.16429 AU	minimum elong	10697 Nov 24 19:06	11°♂32'16	0°37'30
			max. Earth dist.	10697 Nov 27 00:26	12°♂02'29	6.20732 AU
conjunction	10692 May 26 00:08	11°♂22'07 -0°37'05	morning rise	10697 Dec 08 08:21	14°♂35'53	
minimum elong	10692 May 26 00:07	11°♂22'06 0°37'35		10698 Feb 28 02:47	0°♂	
morning rise	10692 Jun 07 19:51	14°♂20'34	retrograde	10698 Apr 12 14:42	2°♂52'38	
	10692 Aug 26 16:08	0°♂		10698 May 26 01:58	30°♂	
retrograde	10692 Oct 12 23:37	3°♂21'49	opposition	10698 Jun 11 18:38	27°♂50'56	1°01'11
	10692 Nov 30 01:01	30°♂	min. Earth dist.	10698 Jun 10 14:25	28°♂00'20	4.29168 AU
opposition	10692 Dec 12 04:02	28°♂26'50 -1°02'15	direct	10698 Aug 11 02:27	22°♂50'48	
min. Earth dist.	10692 Dec 13 09:35	28°♂17'11 4.07890 AU		10698 Oct 22 12:21	0°♂	
direct	10693 Feb 10 08:19	23°♂29'44	evening set	10698 Dec 15 01:07	10°♂46'12	
	10693 Apr 17 19:46	0°♂				
evening set	10693 Jun 16 13:50	12°♂52'41	conjunction	10698 Dec 28 10:20	13°♂41'42	0°42'50
max. Earth dist.	10693 Jun 28 08:46	15°♂42'17 6.00389 AU	minimum elong	10698 Dec 28 10:20	13°♂41'42	0°43'23
			max. Earth dist.	10698 Dec 29 16:54	13°♂58'25	6.36874 AU
conjunction	10693 Jun 29 13:26	15°♂59'31 -0°42'25	morning rise	10699 Jan 10 18:29	16°♂36'24	
minimum elong	10693 Jun 29 13:26	15°♂59'31 0°42'58		10699 Mar 22 18:38	0°♂	
morning rise	10693 Jul 12 14:22	19°♂07'19	retrograde	10699 May 13 05:14	3°♂52'03	
	10693 Aug 30 03:43	0°♂		10699 Jul 04 07:19	30°♂	
retrograde	10693 Nov 19 21:48	9°♂20'31	opposition	10699 Jul 12 20:09	28°♂53'31	0°59'43
opposition	10694 Jan 18 14:46	4°♂22'55 -0°59'06	min. Earth dist.	10699 Jul 12 08:41	28°♂57'16	4.43141 AU
min. Earth dist.	10694 Jan 18 21:31	4°♂20'40 3.94512 AU	direct	10699 Sep 12 08:21	23°♂52'26	
	10694 Feb 28 13:28	30°♂		10699 Nov 18 23:00	0°♂	
direct	10694 Mar 18 09:35	29°♂27'42	evening set	10700 Jan 15 19:30	11°♂12'49	
	10694 Apr 05 06:51	0°♂				
	10694 Jul 04 10:19	15°♂	conjunction	10700 Jan 28 23:59	14°♂02'09	0°36'16
evening set	10694 Jul 23 05:52	19°♂30'05	minimum elong	10700 Jan 28 24:00	14°♂02'10	0°36'43
			max. Earth dist.	10700 Jan 29 02:17	14°♂03'23	6.47713 AU
conjunction	10694 Aug 05 11:53	22°♂44'21 -0°31'47		10700 Feb 02 11:47	15°♂	
minimum elong	10694 Aug 05 11:54	22°♂44'22 0°32'10	morning rise	10700 Feb 11 02:27	16°♂50'28	
max. Earth dist.	10694 Aug 05 19:39	22°♂49'06 5.91023 AU		10700 Apr 23 15:25	0°♂	
morning rise	10694 Aug 18 20:06	25°♂59'54	retrograde	10700 Jun 11 20:53	3°♂30'57	
	10694 Sep 04 12:44	0°♂		10700 Jul 31 17:12	30°♂	
retrograde	10694 Dec 28 20:45	16°♂51'47	opposition	10700 Aug 11 19:37	28°♂35'22	0°42'30
min. Earth dist.	10695 Feb 25 11:25	11°♂56'51 3.90304 AU	min. Earth dist.	10700 Aug 12 03:48	28°♂32'44	4.50241 AU
opposition	10695 Feb 26 05:14	11°♂50'50 -0°31'38	direct	10700 Oct 13 04:31	23°♂34'02	
direct	10695 Apr 25 06:13	6°♂55'58		10700 Dec 22 05:48	0°♂	
evening set	10695 Aug 30 07:02	27°♂03'44	evening set	10701 Feb 15 06:50	10°♂40'22	
	10695 Sep 11 09:51	0°♂	max. Earth dist.	10701 Feb 27 04:00	13°♂12'33	6.50566 AU
conjunction	10695 Sep 12 19:23	0°♂20'21 -0°08'08	conjunction	10701 Feb 28 06:44	13°♂26'51	0°20'18
minimum elong	10695 Sep 12 19:23	0°♂20'22 0°08'10	minimum elong	10701 Feb 28 06:45	13°♂26'51	0°20'29
behind sun begin	10695 Sep 12 11:59	0°♂15'53	morning rise	10701 Mar 13 04:46	16°♂12'27	
behind sun end	10695 Sep 13 02:48	0°♂24'50		10701 May 28 22:42	0°♂	
max. Earth dist.	10695 Sep 14 14:57	0°♂46'49 5.92403 AU	retrograde	10701 Jul 11 16:42	2°♂48'00	

	10701 Aug 24 18:56	30° $\mathbb{K}$		retrograde	10707 Jan 04 03:36	22° $\mathbb{M}$ 07'46	
opposition	10701 Sep 10 18:19	27° $\mathbb{K}$ 54'16	0°14'42	opposition	10707 Mar 04 10:37	17° $\mathbb{M}$ 06'26	-0°26'34
min. Earth dist.	10701 Sep 11 20:55	27° $\mathbb{K}$ 45'45	4.48737 AU	min. Earth dist.	10707 Mar 03 13:58	17° $\mathbb{M}$ 13'24	3.90005 AU
direct	10701 Nov 12 10:48	22° $\mathbb{K}$ 53'04		direct	10707 May 01 08:57	12° $\mathbb{M}$ 11'29	
	10702 Jan 25 07:22	0° $\mathbb{Y}$			10707 Aug 26 19:44	0° $\mathbb{L}$	
desc. node	10702 Mar 11 04:59	8° $\mathbb{Y}$ 48'41		evening set	10707 Sep 05 12:47	2° $\mathbb{L}$ 19'35	
evening set	10702 Mar 17 09:49	10° $\mathbb{Y}$ 08'29					
max. Earth dist.	10702 Mar 28 07:38	12° $\mathbb{Y}$ 30'19	6.44743 AU	conjunction	10707 Sep 19 01:44	5° $\mathbb{L}$ 36'21	-0°04'27
				minimum elong	10707 Sep 19 01:43	5° $\mathbb{L}$ 36'20	0°04'27
conjunction	10702 Mar 30 06:35	12° $\mathbb{Y}$ 55'51	-0°01'06	behind sun begin	10707 Sep 18 17:30	5° $\mathbb{L}$ 31'23	
minimum elong	10702 Mar 30 06:34	12° $\mathbb{Y}$ 55'50	0°01'10	behind sun end	10707 Sep 19 09:56	5° $\mathbb{L}$ 41'17	
behind sun begin	10702 Mar 29 22:34	12° $\mathbb{Y}$ 51'31		max. Earth dist.	10707 Sep 20 23:30	6° $\mathbb{L}$ 04'05	5.92801 AU
behind sun end	10702 Mar 30 14:33	13° $\mathbb{Y}$ 00'10		morning rise	10707 Oct 02 16:58	8° $\mathbb{L}$ 54'04	
morning rise	10702 Apr 12 01:29	15° $\mathbb{Y}$ 42'32		asc. node	10707 Nov 23 17:06	20° $\mathbb{L}$ 31'17	
	10702 Jun 29 15:15	0° $\mathbb{B}$		retrograde	10708 Feb 10 17:12	29° $\mathbb{L}$ 24'23	
retrograde	10702 Aug 11 16:18	2° $\mathbb{B}$ 44'03		min. Earth dist.	10708 Apr 08 14:32	24° $\mathbb{L}$ 33'10	3.98200 AU
	10702 Sep 24 05:56	30° $\mathbb{K}$ $\mathbb{Y}$		opposition	10708 Apr 10 03:33	24° $\mathbb{L}$ 20'35	0°14'08
opposition	10702 Oct 11 16:58	27° $\mathbb{Y}$ 50'56	-0°17'41	direct	10708 Jun 07 07:30	19° $\mathbb{L}$ 23'57	
min. Earth dist.	10702 Oct 13 06:20	27° $\mathbb{Y}$ 38'59	4.38911 AU		10708 Sep 02 06:11	0° $\mathbb{M}$	
direct	10702 Dec 13 00:07	22° $\mathbb{Y}$ 50'29		evening set	10708 Oct 12 07:04	8° $\mathbb{M}$ 56'21	
	10703 Feb 24 03:34	0° $\mathbb{B}$					
evening set	10703 Apr 17 05:10	10° $\mathbb{B}$ 37'24		conjunction	10708 Oct 25 22:10	12° $\mathbb{M}$ 07'59	0°21'34
max. Earth dist.	10703 Apr 27 16:13	12° $\mathbb{B}$ 57'41	6.31539 AU	minimum elong	10708 Oct 25 22:09	12° $\mathbb{M}$ 07'58	0°21'54
				max. Earth dist.	10708 Oct 28 10:47	12° $\mathbb{M}$ 43'32	6.05524 AU
conjunction	10703 Apr 30 00:13	13° $\mathbb{B}$ 29'07	-0°22'44		10708 Nov 07 04:12	15° $\mathbb{M}$	
minimum elong	10703 Apr 30 00:12	13° $\mathbb{B}$ 29'06	0°23'05	morning rise	10708 Nov 08 14:16	15° $\mathbb{M}$ 19'48	
	10703 May 06 18:08	15° $\mathbb{B}$			10709 Jan 19 15:59	0° $\mathbb{J}$	
morning rise	10703 May 12 18:17	16° $\mathbb{B}$ 20'38		retrograde	10709 Mar 16 18:09	4° $\mathbb{J}$ 42'48	
	10703 Jul 21 15:47	0° $\mathbb{I}$			10709 May 12 22:07	30° $\mathbb{K}$ $\mathbb{M}$	
retrograde	10703 Sep 13 23:11	4° $\mathbb{I}$ 16'59		min. Earth dist.	10709 May 13 22:42	29° $\mathbb{M}$ 51'43	4.13973 AU
	10703 Nov 08 20:24	30° $\mathbb{K}$ $\mathbb{B}$		opposition	10709 May 15 12:11	29° $\mathbb{M}$ 39'03	0°47'06
opposition	10703 Nov 13 14:31	29° $\mathbb{B}$ 23'21	-0°46'58	direct	10709 Jul 13 17:02	24° $\mathbb{M}$ 40'16	
min. Earth dist.	10703 Nov 15 06:16	29° $\mathbb{B}$ 10'32	4.23095 AU		10709 Sep 11 21:26	0° $\mathbb{J}$	
direct	10704 Jan 13 23:38	24° $\mathbb{B}$ 24'21		evening set	10709 Nov 17 03:52	13° $\mathbb{J}$ 19'14	
	10704 Mar 16 10:50	0° $\mathbb{I}$					
evening set	10704 May 18 15:14	13° $\mathbb{I}$ 00'14		conjunction	10709 Nov 30 16:48	16° $\mathbb{J}$ 22'06	0°38'33
max. Earth dist.	10704 May 29 09:08	15° $\mathbb{I}$ 30'06	6.14324 AU	minimum elong	10709 Nov 30 16:47	16° $\mathbb{J}$ 22'06	0°39'06
				max. Earth dist.	10709 Dec 02 21:02	16° $\mathbb{J}$ 51'33	6.22868 AU
conjunction	10704 May 31 11:19	15° $\mathbb{I}$ 59'22	-0°38'32	morning rise	10709 Dec 14 05:30	19° $\mathbb{J}$ 24'32	
minimum elong	10704 May 31 11:18	15° $\mathbb{I}$ 59'21	0°39'04		10710 Feb 03 10:34	0° $\mathbb{Z}$	
morning rise	10704 Jun 13 07:36	18° $\mathbb{I}$ 58'56		retrograde	10710 Apr 18 00:25	7° $\mathbb{Z}$ 32'01	
	10704 Aug 03 09:06	0° $\mathbb{D}$		min. Earth dist.	10710 Jun 16 03:34	2° $\mathbb{Z}$ 39'42	4.31286 AU
retrograde	10704 Oct 18 20:47	8° $\mathbb{D}$ 09'50		opposition	10710 Jun 17 07:00	2° $\mathbb{Z}$ 30'34	1°02'01
opposition	10704 Dec 18 00:31	3° $\mathbb{D}$ 14'32	-1°03'11		10710 Jul 07 03:27	30° $\mathbb{K}$ $\mathbb{J}$	
min. Earth dist.	10704 Dec 19 03:28	3° $\mathbb{D}$ 05'43	4.05785 AU	direct	10710 Aug 16 17:59	27° $\mathbb{J}$ 30'11	
	10705 Jan 14 01:49	30° $\mathbb{K}$ $\mathbb{I}$			10710 Sep 26 18:12	0° $\mathbb{Z}$	
direct	10705 Feb 15 23:10	28° $\mathbb{I}$ 17'38		evening set	10710 Dec 20 16:02	15° $\mathbb{Z}$ 19'33	
	10705 Mar 20 15:30	0° $\mathbb{D}$					
evening set	10705 Jun 22 08:04	17° $\mathbb{D}$ 47'25		conjunction	10711 Jan 03 00:35	18° $\mathbb{Z}$ 13'59	0°42'33
max. Earth dist.	10705 Jul 04 07:39	20° $\mathbb{D}$ 40'30	5.98477 AU	minimum elong	10711 Jan 03 00:35	18° $\mathbb{Z}$ 13'59	0°43'06
				max. Earth dist.	10711 Jan 04 04:01	18° $\mathbb{Z}$ 28'57	6.38803 AU
conjunction	10705 Jul 05 08:28	20° $\mathbb{D}$ 55'29	-0°41'55	morning rise	10711 Jan 16 07:50	21° $\mathbb{Z}$ 07'32	
minimum elong	10705 Jul 05 08:28	20° $\mathbb{D}$ 55'29	0°42'27		10711 Feb 28 22:57	0° $\mathbb{X}$	
morning rise	10705 Jul 18 10:15	24° $\mathbb{D}$ 04'34		retrograde	10711 May 18 11:31	8° $\mathbb{X}$ 16'08	
	10705 Aug 12 16:59	0° $\mathbb{Q}$		opposition	10711 Jul 18 03:15	3° $\mathbb{X}$ 17'58	0°58'02
retrograde	10705 Nov 26 03:44	14° $\mathbb{Q}$ 26'40		min. Earth dist.	10711 Jul 17 18:39	3° $\mathbb{X}$ 20'46	4.44713 AU
opposition	10706 Jan 24 17:59	9° $\mathbb{Q}$ 28'39	-0°56'43		10711 Aug 14 20:40	30° $\mathbb{K}$ $\mathbb{Z}$	
min. Earth dist.	10706 Jan 24 22:49	9° $\mathbb{Q}$ 27'02	3.92980 AU	direct	10711 Sep 17 19:56	28° $\mathbb{Z}$ 16'45	
direct	10706 Mar 24 10:10	4° $\mathbb{Q}$ 33'32			10711 Oct 22 03:21	0° $\mathbb{X}$	
	10706 Jun 17 11:17	15° $\mathbb{Q}$			10712 Jan 18 13:52	15° $\mathbb{X}$	
evening set	10706 Jul 29 07:20	24° $\mathbb{Q}$ 40'39		evening set	10712 Jan 21 04:25	15° $\mathbb{X}$ 33'11	
conjunction	10706 Aug 11 14:29	27° $\mathbb{Q}$ 55'54	-0°29'11	conjunction	10712 Feb 03 08:06	18° $\mathbb{X}$ 21'49	0°34'27
minimum elong	10706 Aug 11 14:30	27° $\mathbb{Q}$ 55'55	0°29'32	minimum elong	10712 Feb 03 08:07	18° $\mathbb{X}$ 21'49	0°34'52
max. Earth dist.	10706 Aug 12 03:24	28° $\mathbb{Q}$ 03'49	5.90039 AU	max. Earth dist.	10712 Feb 03 05:32	18° $\mathbb{X}$ 20'26	6.48785 AU
	10706 Aug 20 01:02	0° $\mathbb{M}$		morning rise	10712 Feb 16 09:59	21° $\mathbb{X}$ 09'27	
morning rise	10706 Aug 24 23:45	1° $\mathbb{M}$ 12'26			10712 Mar 31 17:57	0° $\mathbb{K}$	

retrograde	10712 Jun 16 00:59	7° $\text{K}$ 46'44			10717 Oct 06 01:15	15° $\text{Q}$	
opposition	10712 Aug 16 00:33	2° $\text{K}$ 51'22	0°39'02	retrograde	10717 Dec 01 16:07	19° $\text{Q}$ 50'03	
min. Earth dist.	10712 Aug 16 11:33	2° $\text{K}$ 47'50	4.50739 AU		10718 Jan 29 03:20	15° $\text{R}$ $\text{Q}$	
	10712 Sep 08 16:43	30° $\text{R}$ $\approx$		opposition	10718 Jan 30 04:14	14° $\text{Q}$ 51'42	-0°53'41
direct	10712 Oct 17 11:16	27° $\approx$ 49'57		min. Earth dist.	10718 Jan 30 05:04	14° $\text{Q}$ 51'25	3.91687 AU
	10712 Nov 25 12:26	0° $\text{K}$		direct	10718 Mar 29 15:46	9° $\text{Q}$ 56'48	
evening set	10713 Feb 19 12:20	14° $\text{K}$ 55'26			10718 May 25 07:50	15° $\text{Q}$	
max. Earth dist.	10713 Mar 03 07:00	17° $\text{K}$ 26'20	6.50444 AU	evening set	10718 Aug 03 16:07	0° $\text{P}$ 07'31	
					10718 Aug 03 03:47	0° $\text{P}$	
conjunction	10713 Mar 04 11:50	17° $\text{K}$ 41'46	0°17'28				
minimum elong	10713 Mar 04 11:51	17° $\text{K}$ 41'47	0°17'38	conjunction	10718 Aug 17 00:07	3° $\text{P}$ 23'29	-0°26'11
morning rise	10713 Mar 17 09:08	20° $\text{K}$ 27'11		minimum elong	10718 Aug 17 00:08	3° $\text{P}$ 23'29	0°26'28
	10713 May 04 15:07	0° $\text{Y}$		max. Earth dist.	10718 Aug 17 17:13	3° $\text{P}$ 33'58	5.89539 AU
retrograde	10713 Jul 15 21:40	7° $\text{Y}$ 03'55		morning rise	10718 Aug 30 10:35	6° $\text{P}$ 40'46	
opposition	10713 Sep 15 00:29	2° $\text{Y}$ 10'20	0°10'14	retrograde	10719 Jan 09 13:24	27° $\text{P}$ 36'57	
min. Earth dist.	10713 Sep 16 04:34	2° $\text{Y}$ 01'22	4.47992 AU	opposition	10719 Mar 09 21:11	22° $\text{P}$ 35'10	-0°20'57
	10713 Oct 02 14:37	30° $\text{R}$ $\text{K}$		min. Earth dist.	10719 Mar 08 20:50	22° $\text{P}$ 43'26	3.90384 AU
direct	10713 Nov 16 16:06	27° $\text{K}$ 09'14		direct	10719 May 06 18:34	17° $\text{P}$ 40'08	
	10713 Dec 31 14:51	0° $\text{Y}$			10719 Aug 08 13:22	0° $\text{Q}$	
desc. node	10714 Jan 17 10:28	2° $\text{Y}$ 18'26		evening set	10719 Sep 10 22:56	7° $\text{Q}$ 45'40	
evening set	10714 Mar 21 15:54	14° $\text{Y}$ 27'13					
max. Earth dist.	10714 Apr 01 10:18	16° $\text{Y}$ 47'42	6.43411 AU	conjunction	10719 Sep 24 12:36	11° $\text{Q}$ 02'07	-0°00'29
				minimum elong	10719 Sep 24 12:36	11° $\text{Q}$ 02'07	0°00'26
conjunction	10714 Apr 03 12:08	17° $\text{Y}$ 14'54	-0°04'17	behind sun begin	10719 Sep 24 04:14	10° $\text{Q}$ 57'05	
minimum elong	10714 Apr 03 12:08	17° $\text{Y}$ 14'54	0°04'24	behind sun end	10719 Sep 24 20:57	11° $\text{Q}$ 07'09	
behind sun begin	10714 Apr 03 04:18	17° $\text{Y}$ 10'39		max. Earth dist.	10719 Sep 26 15:15	11° $\text{Q}$ 32'43	5.94040 AU
behind sun end	10714 Apr 03 19:58	17° $\text{Y}$ 19'09		asc. node	10719 Oct 01 16:56	12° $\text{Q}$ 46'09	
morning rise	10714 Apr 16 06:51	20° $\text{Y}$ 02'00		morning rise	10719 Oct 08 04:09	14° $\text{Q}$ 19'24	
	10714 Jun 04 18:17	0° $\text{B}$			10719 Dec 22 07:40	0° $\text{M}$	
retrograde	10714 Aug 16 05:31	7° $\text{B}$ 09'11		retrograde	10720 Feb 15 22:04	4° $\text{M}$ 42'09	
opposition	10714 Oct 16 04:03	2° $\text{B}$ 16'04	-0°22'11		10720 Apr 12 15:52	30° $\text{R}$ $\text{Q}$	
min. Earth dist.	10714 Oct 17 19:27	2° $\text{B}$ 03'28	4.37048 AU	min. Earth dist.	10720 Apr 13 18:25	29° $\text{Q}$ 50'59	4.00143 AU
	10714 Nov 03 13:21	30° $\text{R}$ $\text{Y}$		opposition	10720 Apr 15 08:00	29° $\text{Q}$ 38'12	0°19'39
direct	10714 Dec 17 09:57	27° $\text{Y}$ 15'44		direct	10720 Jun 12 15:28	24° $\text{Q}$ 41'19	
	10715 Jan 29 20:05	0° $\text{B}$			10720 Aug 10 13:20	0° $\text{M}$	
	10715 Apr 20 23:51	15° $\text{B}$		evening set	10720 Oct 17 12:22	14° $\text{M}$ 06'18	
evening set	10715 Apr 21 15:03	15° $\text{B}$ 08'30			10720 Oct 21 08:45	15° $\text{M}$	
max. Earth dist.	10715 May 02 01:13	17° $\text{B}$ 28'59	6.29283 AU				
				conjunction	10720 Oct 31 03:19	17° $\text{M}$ 16'44	0°24'41
conjunction	10715 May 04 10:09	18° $\text{B}$ 01'05	-0°25'27	minimum elong	10720 Oct 31 03:18	17° $\text{M}$ 16'44	0°25'03
minimum elong	10715 May 04 10:08	18° $\text{B}$ 01'04	0°25'50	max. Earth dist.	10720 Nov 02 17:04	17° $\text{M}$ 52'44	6.07967 AU
morning rise	10715 May 17 04:20	20° $\text{B}$ 53'33		morning rise	10720 Nov 13 19:09	20° $\text{M}$ 27'16	
	10715 Jun 29 03:09	0° $\text{II}$			10720 Dec 27 13:46	0° $\text{J}$	
retrograde	10715 Sep 18 18:37	8° $\text{II}$ 59'29		retrograde	10721 Mar 21 09:59	9° $\text{J}$ 38'40	
opposition	10715 Nov 18 09:19	4° $\text{II}$ 05'40	-0°50'15	min. Earth dist.	10721 May 18 17:08	4° $\text{J}$ 47'51	4.16667 AU
min. Earth dist.	10715 Nov 19 23:29	3° $\text{II}$ 53'21	4.20597 AU	opposition	10721 May 20 06:53	4° $\text{J}$ 35'08	0°50'22
	10715 Dec 25 18:08	30° $\text{R}$ $\text{B}$			10721 Jul 03 02:47	30° $\text{R}$ $\text{M}$	
direct	10716 Jan 18 12:40	29° $\text{B}$ 06'57		direct	10721 Jul 18 14:49	29° $\text{M}$ 36'05	
	10716 Feb 11 08:28	0° $\text{II}$			10721 Aug 03 07:24	0° $\text{J}$	
evening set	10716 May 23 08:09	17° $\text{II}$ 50'47		evening set	10721 Nov 22 00:38	18° $\text{J}$ 06'36	
max. Earth dist.	10716 Jun 03 05:15	20° $\text{II}$ 23'22	6.11791 AU				
				conjunction	10721 Dec 05 12:53	21° $\text{J}$ 08'03	0°39'54
conjunction	10716 Jun 05 04:38	20° $\text{II}$ 51'10	-0°39'52	minimum elong	10721 Dec 05 12:53	21° $\text{J}$ 08'02	0°40'27
minimum elong	10716 Jun 05 04:37	20° $\text{II}$ 51'10	0°40'26	max. Earth dist.	10721 Dec 07 13:28	21° $\text{J}$ 35'16	6.25578 AU
morning rise	10716 Jun 18 01:29	23° $\text{II}$ 52'05		morning rise	10721 Dec 19 00:51	24° $\text{J}$ 08'58	
	10716 Jul 15 01:05	0° $\text{Q}$			10722 Jan 15 04:01	0° $\text{Z}$	
retrograde	10716 Oct 24 03:37	13° $\text{Q}$ 14'25		retrograde	10722 Apr 22 09:42	12° $\text{Z}$ 05'53	
opposition	10716 Dec 23 04:30	8° $\text{Q}$ 18'50	-1°03'46	opposition	10722 Jun 21 17:12	7° $\text{Z}$ 04'52	1°02'28
min. Earth dist.	10716 Dec 24 05:47	8° $\text{Q}$ 10'32	4.03422 AU	min. Earth dist.	10722 Jun 20 16:59	7° $\text{Z}$ 12'54	4.33777 AU
direct	10717 Feb 20 23:17	3° $\text{Q}$ 22'14		direct	10722 Aug 21 10:03	2° $\text{Z}$ 04'18	
evening set	10717 Jun 27 09:37	22° $\text{Q}$ 59'32		evening set	10722 Dec 25 04:04	19° $\text{Z}$ 46'55	
conjunction	10717 Jul 10 10:57	26° $\text{Q}$ 08'56	-0°41'04	conjunction	10723 Jan 07 11:57	22° $\text{Z}$ 40'14	0°42'02
minimum elong	10717 Jul 10 10:58	26° $\text{Q}$ 08'56	0°41'35	minimum elong	10723 Jan 07 11:58	22° $\text{Z}$ 40'14	0°42'35
max. Earth dist.	10717 Jul 09 14:43	25° $\text{Q}$ 56'40	5.96527 AU	max. Earth dist.	10723 Jan 08 11:44	22° $\text{Z}$ 53'09	6.40879 AU
morning rise	10717 Jul 23 13:45	29° $\text{Q}$ 19'24		morning rise	10723 Jan 20 18:22	25° $\text{Z}$ 32'39	
	10717 Jul 26 09:17	0° $\text{Q}$			10723 Feb 10 21:33	0° $\approx$	

retrograde	10723 May 22 13:25	12° $\approx$ 34'23			10729 Jul 09 12:32	0° $\Omega$	
opposition	10723 Jul 22 07:52	7° $\approx$ 36'37	0°56'06				
min. Earth dist.	10723 Jul 22 01:31	7° $\approx$ 38'41	4.46250 AU	conjunction	10729 Jul 15 16:28	1° $\Omega$ 29'57	-0°39'51
direct	10723 Sep 22 03:02	2° $\approx$ 35'20		minimum elong	10729 Jul 15 16:29	1° $\Omega$ 29'58	0°40'22
	10724 Jan 02 06:12	15° $\approx$		max. Earth dist.	10729 Jul 15 01:00	1° $\Omega$ 20'33	5.94830 AU
evening set	10724 Jan 25 10:32	19° $\approx$ 48'16		morning rise	10729 Jul 28 20:28	4° $\Omega$ 41'44	
					10729 Sep 11 23:39	15° $\Omega$	
conjunction	10724 Feb 07 13:35	22° $\approx$ 36'17	0°32'29	retrograde	10729 Dec 07 05:02	25° $\Omega$ 19'28	
minimum elong	10724 Feb 07 13:36	22° $\approx$ 36'18	0°32'52	opposition	10730 Feb 04 16:45	20° $\Omega$ 20'32	-0°50'08
max. Earth dist.	10724 Feb 07 07:06	22° $\approx$ 32'50	6.49676 AU	min. Earth dist.	10730 Feb 04 13:05	20° $\Omega$ 21'45	3.90813 AU
morning rise	10724 Feb 20 14:38	25° $\approx$ 23'19		direct	10730 Apr 04 01:13	15° $\Omega$ 25'41	
	10724 Mar 13 19:46	0° $\mathbb{X}$			10730 Jul 16 11:42	0° $\mathbb{P}$	
retrograde	10724 Jun 20 03:34	11° $\mathbb{X}$ 58'22		evening set	10730 Aug 09 02:17	5° $\mathbb{P}$ 37'50	
opposition	10724 Aug 20 03:35	7° $\mathbb{X}$ 03'22	0°35'26				
min. Earth dist.	10724 Aug 20 17:51	6° $\mathbb{X}$ 58'47	4.50936 AU	conjunction	10730 Aug 22 11:22	8° $\mathbb{P}$ 54'15	-0°22'55
direct	10724 Oct 21 16:38	2° $\mathbb{X}$ 01'58		minimum elong	10730 Aug 22 11:23	8° $\mathbb{P}$ 54'15	0°23'10
evening set	10725 Feb 23 16:22	19° $\mathbb{X}$ 07'45		max. Earth dist.	10730 Aug 23 11:47	9° $\mathbb{P}$ 09'13	5.89589 AU
max. Earth dist.	10725 Mar 07 05:02	21° $\mathbb{X}$ 35'43	6.49914 AU	morning rise	10730 Sep 04 22:36	12° $\mathbb{P}$ 11'52	
					10730 Dec 01 15:23	0° $\Omega$	
conjunction	10725 Mar 08 15:13	21° $\mathbb{X}$ 54'03	0°14'37	retrograde	10731 Jan 15 00:48	3° $\Omega$ 06'00	
minimum elong	10725 Mar 08 15:14	21° $\mathbb{X}$ 54'04	0°14'45		10731 Feb 28 15:29	30° $\mathbb{R}$ $\mathbb{P}$	
behind sun begin	10725 Mar 08 12:00	21° $\mathbb{X}$ 52'20		min. Earth dist.	10731 Mar 14 05:12	28° $\mathbb{P}$ 12'45	3.91343 AU
behind sun end	10725 Mar 08 18:28	21° $\mathbb{X}$ 55'47		opposition	10731 Mar 15 07:46	28° $\mathbb{P}$ 03'45	-0°15'09
morning rise	10725 Mar 21 12:14	24° $\mathbb{X}$ 39'32		direct	10731 May 12 06:13	23° $\mathbb{P}$ 08'31	
	10725 Apr 16 06:00	0° $\mathbb{Y}$			10731 Jul 18 05:57	0° $\Omega$	
retrograde	10725 Jul 20 04:31	11° $\mathbb{Y}$ 18'58		asc. node	10731 Aug 09 08:05	4° $\Omega$ 25'13	
opposition	10725 Sep 19 06:00	6° $\mathbb{Y}$ 25'29	0°05'45	evening set	10731 Sep 16 08:35	13° $\Omega$ 09'01	
min. Earth dist.	10725 Sep 20 12:44	6° $\mathbb{Y}$ 15'39	4.46771 AU				
direct	10725 Nov 20 21:11	1° $\mathbb{Y}$ 24'21		conjunction	10731 Sep 29 22:34	16° $\Omega$ 24'47	0°03'29
desc. node	10725 Nov 27 05:21	1° $\mathbb{Y}$ 28'00		minimum elong	10731 Sep 29 22:35	16° $\Omega$ 24'48	0°03'36
evening set	10726 Mar 25 21:26	18° $\mathbb{Y}$ 46'33		behind sun begin	10731 Sep 29 14:17	16° $\Omega$ 19'50	
max. Earth dist.	10726 Apr 05 14:27	21° $\mathbb{Y}$ 06'49	6.41576 AU	behind sun end	10731 Sep 30 06:54	16° $\Omega$ 29'46	
				max. Earth dist.	10731 Oct 02 04:37	16° $\Omega$ 57'16	5.95768 AU
conjunction	10726 Apr 07 17:36	21° $\mathbb{Y}$ 34'51	-0°07'24	morning rise	10731 Oct 13 14:31	19° $\Omega$ 41'21	
minimum elong	10726 Apr 07 17:36	21° $\mathbb{Y}$ 34'51	0°07'34		10731 Nov 28 13:34	0° $\mathbb{M}$	
behind sun begin	10726 Apr 07 10:21	21° $\mathbb{Y}$ 30'54		retrograde	10732 Feb 20 21:52	9° $\mathbb{M}$ 54'24	
behind sun end	10726 Apr 08 00:51	21° $\mathbb{Y}$ 38'48		min. Earth dist.	10732 Apr 18 18:51	5° $\mathbb{M}$ 03'40	4.02435 AU
morning rise	10726 Apr 20 12:01	24° $\mathbb{Y}$ 22'35		opposition	10732 Apr 20 10:05	4° $\mathbb{M}$ 50'21	0°24'56
	10726 May 17 00:33	0° $\mathbb{B}$			10732 Jun 09 15:17	30° $\mathbb{R}$ $\Omega$	
retrograde	10726 Aug 20 17:46	11° $\mathbb{B}$ 37'12		direct	10732 Jun 17 19:32	29° $\Omega$ 53'07	
opposition	10726 Oct 20 15:59	6° $\mathbb{B}$ 44'03	-0°26'36		10732 Jun 26 00:47	0° $\mathbb{M}$	
min. Earth dist.	10726 Oct 22 07:38	6° $\mathbb{B}$ 31'21	4.34713 AU		10732 Oct 04 08:05	15° $\mathbb{M}$	
direct	10726 Dec 21 17:38	1° $\mathbb{B}$ 43'54		evening set	10732 Oct 22 15:33	19° $\mathbb{M}$ 09'51	
	10727 Apr 04 12:52	15° $\mathbb{B}$					
evening set	10727 Apr 26 02:15	19° $\mathbb{B}$ 44'05		conjunction	10732 Nov 05 06:11	22° $\mathbb{M}$ 18'57	0°27'33
max. Earth dist.	10727 May 06 12:21	22° $\mathbb{B}$ 05'24	6.26614 AU	minimum elong	10732 Nov 05 06:10	22° $\mathbb{M}$ 18'56	0°27'58
				max. Earth dist.	10732 Nov 07 18:02	22° $\mathbb{M}$ 53'38	6.10585 AU
conjunction	10727 May 08 21:18	22° $\mathbb{B}$ 37'44	-0°28'02	morning rise	10732 Nov 18 21:40	25° $\mathbb{M}$ 28'05	
minimum elong	10727 May 08 21:17	22° $\mathbb{B}$ 37'43	0°28'27		10732 Dec 09 00:26	0° $\mathbb{J}$	
morning rise	10727 May 21 15:47	25° $\mathbb{B}$ 31'23		retrograde	10733 Mar 26 01:11	14° $\mathbb{J}$ 27'51	
	10727 Jun 10 20:18	0° $\mathbb{I}$		min. Earth dist.	10733 May 23 11:57	9° $\mathbb{J}$ 36'29	4.19342 AU
retrograde	10727 Sep 23 19:06	13° $\mathbb{I}$ 48'32		opposition	10733 May 24 23:25	9° $\mathbb{J}$ 24'33	0°53'14
opposition	10727 Nov 23 06:44	8° $\mathbb{I}$ 54'31	-0°53'17	direct	10733 Jul 23 12:56	4° $\mathbb{J}$ 25'14	
min. Earth dist.	10727 Nov 24 20:28	8° $\mathbb{I}$ 42'18	4.17780 AU	evening set	10733 Nov 26 18:53	22° $\mathbb{J}$ 47'42	
direct	10728 Jan 23 06:27	3° $\mathbb{I}$ 56'03					
evening set	10728 May 28 03:45	22° $\mathbb{I}$ 48'50		conjunction	10733 Dec 10 06:43	25° $\mathbb{J}$ 47'52	0°40'58
max. Earth dist.	10728 Jun 08 04:38	25° $\mathbb{I}$ 24'33	6.09085 AU	minimum elong	10733 Dec 10 06:43	25° $\mathbb{J}$ 47'51	0°41'31
				max. Earth dist.	10733 Dec 12 05:28	26° $\mathbb{J}$ 13'54	6.28098 AU
conjunction	10728 Jun 10 00:52	25° $\mathbb{I}$ 50'39	-0°40'57	morning rise	10733 Dec 23 17:50	28° $\mathbb{J}$ 47'23	
minimum elong	10728 Jun 10 00:52	25° $\mathbb{I}$ 50'39	0°41'31		10733 Dec 29 05:53	0° $\mathbb{Z}$	
morning rise	10728 Jun 22 22:23	28° $\mathbb{I}$ 53'03		retrograde	10734 Apr 26 15:39	16° $\mathbb{Z}$ 34'52	
	10728 Jun 27 16:49	0° $\mathbb{E}$		min. Earth dist.	10734 Jun 25 03:19	11° $\mathbb{Z}$ 41'47	4.35960 AU
retrograde	10728 Oct 29 12:18	18° $\mathbb{E}$ 27'08		opposition	10734 Jun 26 01:54	11° $\mathbb{Z}$ 34'20	1°02'34
opposition	10728 Dec 28 11:21	13° $\mathbb{E}$ 31'14	-1°03'51	direct	10734 Aug 25 22:05	6° $\mathbb{Z}$ 33'40	
min. Earth dist.	10728 Dec 29 09:01	13° $\mathbb{E}$ 24'07	4.01108 AU	evening set	10734 Dec 29 15:04	24° $\mathbb{Z}$ 10'47	
direct	10729 Feb 26 00:13	8° $\mathbb{E}$ 34'58					
evening set	10729 Jul 02 14:21	28° $\mathbb{E}$ 19'22		conjunction	10735 Jan 11 22:09	27° $\mathbb{Z}$ 03'08	0°41'19

minimum elong	10735 Jan 11 22:10	27° $\text{♁}$ 03'09	0°41'51	conjunction	10740 Jun 14 22:37	0° $\text{♁}$ 54'37	-0°41'46
max. Earth dist.	10735 Jan 12 16:28	27° $\text{♁}$ 13'03	6.42575 AU	minimum elong	10740 Jun 14 22:37	0° $\text{♁}$ 54'37	0°42'19
morning rise	10735 Jan 25 03:52	29° $\text{♁}$ 54'37		morning rise	10740 Jun 27 20:58	3° $\text{♁}$ 58'21	
	10735 Jan 25 13:55	0° $\text{♁}$		retrograde	10740 Nov 03 21:31	23° $\text{♁}$ 42'23	
	10735 Apr 21 18:07	15° $\text{♁}$		opposition	10741 Jan 02 19:04	18° $\text{♁}$ 46'06	-1°03'28
retrograde	10735 May 26 17:56	16° $\text{♁}$ 50'58		min. Earth dist.	10741 Jan 03 12:51	18° $\text{♁}$ 40'14	3.99395 AU
	10735 Jun 30 14:42	15° $\text{♁}$		direct	10741 Mar 03 04:04	13° $\text{♁}$ 50'08	
opposition	10735 Jul 26 12:25	11° $\text{♁}$ 53'40	0°53'54		10741 Jun 22 11:43	0° $\text{♁}$	
min. Earth dist.	10735 Jul 26 10:01	11° $\text{♁}$ 54'27	4.47364 AU	evening set	10741 Jul 07 18:47	3° $\text{♁}$ 39'10	
direct	10735 Sep 26 11:55	6° $\text{♁}$ 52'21					
	10735 Dec 15 03:47	15° $\text{♁}$		conjunction	10741 Jul 20 21:54	6° $\text{♁}$ 50'41	-0°38'22
evening set	10736 Jan 29 16:51	24° $\text{♁}$ 03'11		minimum elong	10741 Jul 20 21:55	6° $\text{♁}$ 50'41	0°38'52
				max. Earth dist.	10741 Jul 20 13:38	6° $\text{♁}$ 45'38	5.93813 AU
conjunction	10736 Feb 11 19:21	26° $\text{♁}$ 50'50	0°30'21	morning rise	10741 Aug 03 02:41	10° $\text{♁}$ 03'20	
minimum elong	10736 Feb 11 19:22	26° $\text{♁}$ 50'50	0°30'42		10741 Aug 23 21:53	15° $\text{♁}$	
max. Earth dist.	10736 Feb 11 08:26	26° $\text{♁}$ 45'00	6.50131 AU		10741 Nov 21 05:45	0° $\text{♁}$	
morning rise	10736 Feb 24 19:49	29° $\text{♁}$ 37'29		retrograde	10741 Dec 12 16:44	0° $\text{♁}$ 45'03	
	10736 Feb 26 14:19	0° $\text{♁}$			10742 Jan 03 00:45	30° $\text{♁}$	
retrograde	10736 Jun 24 06:57	16° $\text{♁}$ 11'46		opposition	10742 Feb 10 03:09	25° $\text{♁}$ 45'39	-0°46'14
opposition	10736 Aug 24 07:48	11° $\text{♁}$ 17'03	0°31'37	min. Earth dist.	10742 Feb 09 20:24	25° $\text{♁}$ 47'55	3.90631 AU
min. Earth dist.	10736 Aug 25 00:08	11° $\text{♁}$ 11'48	4.50727 AU	direct	10742 Apr 09 09:36	20° $\text{♁}$ 50'55	
direct	10736 Oct 25 21:01	6° $\text{♁}$ 15'41			10742 Jun 27 01:26	0° $\text{♁}$	
evening set	10737 Feb 27 21:30	23° $\text{♁}$ 22'59		evening set	10742 Aug 14 10:07	11° $\text{♁}$ 01'55	
max. Earth dist.	10737 Mar 11 07:47	25° $\text{♁}$ 49'58	6.49056 AU				
				conjunction	10742 Aug 27 19:51	14° $\text{♁}$ 18'22	-0°19'34
conjunction	10737 Mar 12 20:01	26° $\text{♁}$ 09'27	0°11'38	minimum elong	10742 Aug 27 19:52	14° $\text{♁}$ 18'22	0°19'47
minimum elong	10737 Mar 12 20:01	26° $\text{♁}$ 09'27	0°11'44	max. Earth dist.	10742 Aug 29 00:37	14° $\text{♁}$ 35'57	5.90241 AU
behind sun begin	10737 Mar 12 14:23	26° $\text{♁}$ 06'27		morning rise	10742 Sep 10 08:00	17° $\text{♁}$ 36'02	
behind sun end	10737 Mar 13 01:39	26° $\text{♁}$ 12'28			10742 Nov 04 16:18	0° $\text{♁}$	
morning rise	10737 Mar 25 16:29	28° $\text{♁}$ 55'05		retrograde	10743 Jan 20 05:27	8° $\text{♁}$ 25'29	
	10737 Mar 30 18:25	0° $\text{♁}$		min. Earth dist.	10743 Mar 19 07:46	3° $\text{♁}$ 32'59	3.92770 AU
retrograde	10737 Jul 24 12:34	15° $\text{♁}$ 38'22		opposition	10743 Mar 20 13:36	3° $\text{♁}$ 22'52	-0°09'28
opposition	10737 Sep 23 13:50	10° $\text{♁}$ 45'04	0°01'09		10743 Apr 17 04:26	30° $\text{♁}$	
min. Earth dist.	10737 Sep 24 22:33	10° $\text{♁}$ 34'37	4.45309 AU	direct	10743 May 17 12:08	28° $\text{♁}$ 27'24	
desc. node	10737 Oct 07 03:38	9° $\text{♁}$ 03'02			10743 Jun 16 20:36	0° $\text{♁}$	
direct	10737 Nov 25 03:52	5° $\text{♁}$ 44'09		asc. node	10743 Jun 19 14:09	0° $\text{♁}$ 16'48	
evening set	10738 Mar 30 05:19	23° $\text{♁}$ 11'13		evening set	10743 Sep 21 13:41	18° $\text{♁}$ 21'36	
max. Earth dist.	10738 Apr 09 19:10	25° $\text{♁}$ 30'27	6.39607 AU				
				conjunction	10743 Oct 05 03:55	21° $\text{♁}$ 36'31	0°07'09
conjunction	10738 Apr 12 01:05	26° $\text{♁}$ 00'09	-0°10'33	minimum elong	10743 Oct 05 03:53	21° $\text{♁}$ 36'31	0°07'19
minimum elong	10738 Apr 12 01:05	26° $\text{♁}$ 00'08	0°10'45	behind sun begin	10743 Oct 04 20:15	21° $\text{♁}$ 31'57	
behind sun begin	10738 Apr 11 18:56	25° $\text{♁}$ 56'46		behind sun end	10743 Oct 05 11:32	21° $\text{♁}$ 41'04	
behind sun end	10738 Apr 12 07:13	26° $\text{♁}$ 03'30		max. Earth dist.	10743 Oct 07 10:41	22° $\text{♁}$ 09'18	5.97798 AU
morning rise	10738 Apr 24 19:33	28° $\text{♁}$ 48'38		morning rise	10743 Oct 18 19:59	24° $\text{♁}$ 52'07	
	10738 Apr 30 06:22	0° $\text{♁}$			10743 Nov 09 22:29	0° $\text{♁}$	
	10738 Jul 28 12:33	15° $\text{♁}$		retrograde	10744 Feb 25 17:14	14° $\text{♁}$ 54'54	
retrograde	10738 Aug 25 10:30	16° $\text{♁}$ 11'19		min. Earth dist.	10744 Apr 23 16:39	10° $\text{♁}$ 03'52	4.04823 AU
	10738 Sep 22 08:15	15° $\text{♁}$		opposition	10744 Apr 25 07:10	9° $\text{♁}$ 50'47	0°29'45
opposition	10738 Oct 25 06:44	11° $\text{♁}$ 18'10	-0°30'58	direct	10744 Jun 22 20:47	4° $\text{♁}$ 53'14	
min. Earth dist.	10738 Oct 26 22:52	11° $\text{♁}$ 05'17	4.32361 AU		10744 Sep 16 06:36	15° $\text{♁}$	
direct	10738 Dec 26 05:32	6° $\text{♁}$ 18'16		evening set	10744 Oct 27 13:32	24° $\text{♁}$ 01'44	
	10739 Mar 17 02:06	15° $\text{♁}$					
evening set	10739 Apr 30 15:48	24° $\text{♁}$ 25'53		conjunction	10744 Nov 10 04:03	27° $\text{♁}$ 09'36	0°30'07
max. Earth dist.	10739 May 11 04:03	26° $\text{♁}$ 49'13	6.24086 AU	minimum elong	10744 Nov 10 04:02	27° $\text{♁}$ 09'35	0°30'35
				max. Earth dist.	10744 Nov 12 15:46	27° $\text{♁}$ 44'00	6.13114 AU
conjunction	10739 May 13 11:08	27° $\text{♁}$ 20'39	-0°30'30		10744 Nov 22 12:35	0° $\text{♁}$	
minimum elong	10739 May 13 11:07	27° $\text{♁}$ 20'39	0°30'57	morning rise	10744 Nov 23 18:56	0° $\text{♁}$ 17'20	
	10739 May 25 02:33	0° $\text{♁}$		retrograde	10745 Mar 30 11:11	19° $\text{♁}$ 06'15	
morning rise	10739 May 26 05:45	0° $\text{♁}$ 15'27		min. Earth dist.	10745 May 28 00:58	14° $\text{♁}$ 14'49	4.21785 AU
retrograde	10739 Sep 28 19:46	18° $\text{♁}$ 43'19		opposition	10745 May 29 11:14	14° $\text{♁}$ 03'19	0°55'40
opposition	10739 Nov 28 06:25	13° $\text{♁}$ 49'12	-0°56'01	direct	10745 Jul 28 04:44	9° $\text{♁}$ 03'48	
min. Earth dist.	10739 Nov 29 18:03	13° $\text{♁}$ 37'39	4.15294 AU	evening set	10745 Dec 01 09:16	27° $\text{♁}$ 19'23	
direct	10740 Jan 28 00:52	8° $\text{♁}$ 51'11			10745 Dec 13 11:16	0° $\text{♁}$	
evening set	10740 Jun 02 01:08	27° $\text{♁}$ 51'38					
	10740 Jun 11 02:29	0° $\text{♁}$		conjunction	10745 Dec 14 20:22	0° $\text{♁}$ 18'21	0°41'46
max. Earth dist.	10740 Jun 13 05:30	0° $\text{♁}$ 30'14	6.06873 AU	minimum elong	10745 Dec 14 20:21	0° $\text{♁}$ 18'21	0°42'20
				max. Earth dist.	10745 Dec 16 13:47	0° $\text{♁}$ 41'20	6.30259 AU

morning rise	10745 Dec 28 06:56	3°♂16'43		retrograde	10751 Oct 03 19:34	23°♂34'34	
retrograde	10746 Apr 30 20:32	20°♂56'17		opposition	10751 Dec 03 04:55	18°♂40'09	-0°58'19
opposition	10746 Jun 30 07:23	15°♂56'11	1°02'22	min. Earth dist.	10751 Dec 04 14:27	18°♂29'15	4.13058 AU
min. Earth dist.	10746 Jun 29 12:17	16°♂02'29	4.37705 AU	direct	10752 Feb 01 19:22	13°♂42'20	
direct	10746 Aug 30 08:19	10°♂55'21			10752 May 25 18:47	0°♂	
evening set	10747 Jan 02 23:05	28°♂28'27		evening set	10752 Jun 06 20:56	2°♂49'33	
	10747 Jan 10 01:17	0°♂		max. Earth dist.	10752 Jun 18 06:45	5°♂32'02	6.04867 AU
conjunction	10747 Jan 16 05:45	1°♂20'08	0°40'25	conjunction	10752 Jun 19 19:07	5°♂53'42	-0°42'14
minimum elong	10747 Jan 16 05:46	1°♂20'09	0°40'55	minimum elong	10752 Jun 19 19:07	5°♂53'42	0°42'48
max. Earth dist.	10747 Jan 16 21:01	1°♂28'23	6.43797 AU	morning rise	10752 Jul 02 18:00	8°♂58'36	
morning rise	10747 Jan 29 10:39	4°♂10'51		retrograde	10752 Nov 09 05:38	28°♂51'39	
	10747 Mar 25 18:28	15°♂		opposition	10753 Jan 08 00:26	23°♂55'01	-1°02'32
retrograde	10747 May 30 18:53	21°♂03'23		min. Earth dist.	10753 Jan 08 15:57	23°♂49'53	3.97813 AU
opposition	10747 Jul 30 15:09	16°♂06'30	0°51'33	direct	10753 Mar 08 05:22	18°♂59'18	
min. Earth dist.	10747 Jul 30 14:36	16°♂06'41	4.48021 AU		10753 Jun 04 12:05	0°♂	
	10747 Aug 08 06:03	15°♂		evening set	10753 Jul 12 21:30	8°♂52'48	
direct	10747 Sep 30 16:09	11°♂05'10		conjunction	10753 Jul 26 01:23	12°♂05'13	-0°36'34
	10747 Nov 22 21:33	15°♂		minimum elong	10753 Jul 26 01:24	12°♂05'13	0°37'01
evening set	10748 Feb 02 21:46	28°♂15'10		max. Earth dist.	10753 Jul 25 20:45	12°♂02'23	5.92796 AU
	10748 Feb 11 02:37	0°♂			10753 Aug 07 00:16	15°♂	
conjunction	10748 Feb 15 23:37	1°♂02'34	0°28'08	morning rise	10753 Aug 08 07:22	15°♂18'52	
minimum elong	10748 Feb 15 23:38	1°♂02'34	0°28'28		10753 Oct 15 02:36	0°♂	
max. Earth dist.	10748 Feb 15 08:23	0°♂54'25	6.50190 AU	retrograde	10753 Dec 18 00:31	6°♂04'36	
morning rise	10748 Feb 28 23:34	3°♂49'00		opposition	10754 Feb 15 11:07	1°♂04'45	-0°41'58
retrograde	10748 Jun 28 11:18	20°♂23'38		min. Earth dist.	10754 Feb 15 00:08	1°♂08'26	3.90318 AU
opposition	10748 Aug 28 11:35	15°♂29'12	0°27'45		10754 Feb 23 13:36	30°♂	
min. Earth dist.	10748 Aug 29 07:10	15°♂22'55	4.50204 AU	direct	10754 Apr 14 14:27	26°♂10'01	
direct	10748 Oct 30 02:36	10°♂27'51			10754 Jun 02 08:59	0°♂	
evening set	10749 Mar 04 02:21	27°♂37'22		evening set	10754 Aug 19 16:26	16°♂20'55	
max. Earth dist.	10749 Mar 15 08:48	0°♂02'42	6.47985 AU	conjunction	10754 Sep 02 02:59	19°♂37'33	-0°16'04
	10749 Mar 15 03:48	0°♂		minimum elong	10754 Sep 02 02:59	19°♂37'34	0°16'14
conjunction	10749 Mar 17 00:26	0°♂24'04	0°08'39	max. Earth dist.	10754 Sep 03 11:47	19°♂57'35	5.90662 AU
minimum elong	10749 Mar 17 00:27	0°♂24'04	0°08'42	morning rise	10754 Sep 15 15:52	22°♂55'22	
behind sun begin	10749 Mar 16 17:31	0°♂20'21			10754 Oct 15 19:33	0°♂	
behind sun end	10749 Mar 17 07:22	0°♂27'47		retrograde	10755 Jan 25 09:52	13°♂41'29	
morning rise	10749 Mar 29 20:37	3°♂09'59		min. Earth dist.	10755 Mar 24 11:14	8°♂49'05	3.93860 AU
retrograde	10749 Jul 28 20:19	19°♂57'30		opposition	10755 Mar 25 18:18	8°♂38'32	-0°03'44
desc. node	10749 Aug 18 11:21	19°♂18'15		asc. node	10755 Apr 30 08:47	4°♂34'09	
opposition	10749 Sep 27 21:33	15°♂04'14	-0°03'25	direct	10755 May 22 18:29	3°♂42'49	
min. Earth dist.	10749 Sep 29 07:03	14°♂53'31	4.43770 AU	evening set	10755 Sep 26 18:34	23°♂32'26	
direct	10749 Nov 29 09:46	10°♂03'22		conjunction	10755 Oct 10 09:14	26°♂46'44	0°10'48
evening set	10750 Apr 03 12:52	27°♂35'15		minimum elong	10755 Oct 10 09:13	26°♂46'43	0°11'00
max. Earth dist.	10750 Apr 14 03:20	29°♂55'24	6.37703 AU	behind sun begin	10755 Oct 10 02:58	26°♂43'01	
	10750 Apr 14 11:40	0°♂		behind sun end	10755 Oct 10 15:28	26°♂50'26	
conjunction	10750 Apr 16 08:34	0°♂24'50	-0°13'36	max. Earth dist.	10755 Oct 12 19:05	27°♂21'11	5.99449 AU
minimum elong	10750 Apr 16 08:33	0°♂24'50	0°13'50		10755 Oct 23 22:42	0°♂	
behind sun begin	10750 Apr 16 04:18	0°♂22'30		morning rise	10755 Oct 24 01:21	0°♂01'34	
behind sun end	10750 Apr 16 12:48	0°♂27'10			10756 Jan 04 08:46	15°♂	
morning rise	10750 Apr 29 02:45	3°♂13'59		retrograde	10756 Mar 01 13:47	19°♂55'35	
	10750 Jun 27 05:21	15°♂		min. Earth dist.	10756 Apr 28 13:32	15°♂04'42	4.06847 AU
retrograde	10750 Aug 30 01:45	20°♂44'15			10756 Apr 29 03:25	15°♂	
opposition	10750 Oct 29 21:16	15°♂51'01	-0°35'07	opposition	10756 Apr 30 04:18	14°♂51'34	0°34'23
min. Earth dist.	10750 Oct 31 13:32	15°♂38'06	4.30203 AU	direct	10756 Jun 27 20:34	9°♂53'47	
	10750 Nov 05 12:55	15°♂			10756 Aug 25 01:35	15°♂	
direct	10750 Dec 30 17:19	10°♂51'20		evening set	10756 Nov 01 12:55	28°♂55'44	
	10751 Feb 22 08:56	15°♂			10756 Nov 06 05:23	0°♂	
evening set	10751 May 05 04:41	29°♂05'23		conjunction	10756 Nov 15 03:00	2°♂02'28	0°32'30
	10751 May 09 04:34	0°♂		minimum elong	10756 Nov 15 02:59	2°♂02'28	0°32'59
max. Earth dist.	10751 May 15 16:55	1°♂29'31	6.21813 AU	max. Earth dist.	10756 Nov 17 12:04	2°♂35'10	6.15312 AU
conjunction	10751 May 17 23:57	2°♂01'05	-0°32'45	morning rise	10756 Nov 28 17:38	5°♂09'04	
minimum elong	10751 May 17 23:56	2°♂01'04	0°33'14	retrograde	10757 Apr 03 23:03	23°♂48'26	
morning rise	10751 May 30 19:00	4°♂56'57		min. Earth dist.	10757 Jun 01 16:02	18°♂56'47	4.23964 AU

opposition	10757 Jun 03 00:39	18° $\text{♄}$ 45'51	0°57'45	minimum elong	10763 May 22 09:40	6° $\text{♄}$ 34'02	0°35'10
direct	10757 Aug 01 22:26	13° $\text{♄}$ 46'08		morning rise	10763 Jun 04 04:49	9° $\text{♄}$ 30'47	
	10757 Nov 27 05:13	0° $\text{♄}$		retrograde	10763 Oct 08 16:27	28° $\text{♄}$ 17'08	
evening set	10757 Dec 06 01:18	1° $\text{♄}$ 55'45		opposition	10763 Dec 07 23:31	23° $\text{♄}$ 22'29	-1°00'05
				min. Earth dist.	10763 Dec 09 08:37	23° $\text{♄}$ 11'43	4.11035 AU
conjunction	10757 Dec 19 12:00	4° $\text{♄}$ 53'42	0°42'19	direct	10764 Feb 06 10:19	18° $\text{♄}$ 24'53	
minimum elong	10757 Dec 19 12:00	4° $\text{♄}$ 53'42	0°42'54		10764 May 08 23:37	0° $\text{♄}$	
max. Earth dist.	10757 Dec 21 03:34	5° $\text{♄}$ 15'34	6.32278 AU	evening set	10764 Jun 11 12:48	7° $\text{♄}$ 38'20	
morning rise	10758 Jan 01 21:42	7° $\text{♄}$ 50'56		max. Earth dist.	10764 Jun 23 00:09	10° $\text{♄}$ 22'28	6.02919 AU
retrograde	10758 May 05 03:01	25° $\text{♄}$ 23'04					
opposition	10758 Jul 04 15:06	20° $\text{♄}$ 23'32	1°01'48	conjunction	10764 Jun 24 11:28	10° $\text{♄}$ 43'35	-0°42'23
min. Earth dist.	10758 Jul 03 21:45	20° $\text{♄}$ 29'14	4.39436 AU	minimum elong	10764 Jun 24 11:28	10° $\text{♄}$ 43'35	0°42'57
direct	10758 Sep 03 19:25	15° $\text{♄}$ 22'43		morning rise	10764 Jul 07 11:18	13° $\text{♄}$ 49'44	
	10758 Dec 24 20:42	0° $\text{♄}$			10764 Sep 24 21:19	0° $\text{♄}$	
evening set	10759 Jan 07 09:20	2° $\text{♄}$ 51'41		retrograde	10764 Nov 14 06:57	3° $\text{♄}$ 51'51	
					10765 Jan 04 19:09	30° $\text{♄}$	
conjunction	10759 Jan 20 15:09	5° $\text{♄}$ 42'34	0°39'16	opposition	10765 Jan 13 01:37	28° $\text{♄}$ 54'48	-1°01'11
minimum elong	10759 Jan 20 15:10	5° $\text{♄}$ 42'35	0°39'45	min. Earth dist.	10765 Jan 13 13:41	28° $\text{♄}$ 50'48	3.96129 AU
max. Earth dist.	10759 Jan 21 01:26	5° $\text{♄}$ 48'07	6.45146 AU	direct	10765 Mar 13 01:36	23° $\text{♄}$ 59'13	
morning rise	10759 Feb 02 19:28	8° $\text{♄}$ 32'31			10765 May 14 18:09	0° $\text{♄}$	
	10759 Mar 06 03:43	15° $\text{♄}$		evening set	10765 Jul 17 20:37	13° $\text{♄}$ 57'58	
retrograde	10759 Jun 03 23:32	25° $\text{♄}$ 20'46			10765 Jul 22 02:33	15° $\text{♄}$	
opposition	10759 Aug 03 19:56	20° $\text{♄}$ 24'19	0°48'52				
min. Earth dist.	10759 Aug 03 22:27	20° $\text{♄}$ 23'30	4.48944 AU	conjunction	10765 Jul 31 01:31	17° $\text{♄}$ 11'25	-0°34'34
direct	10759 Oct 05 00:17	15° $\text{♄}$ 22'59		minimum elong	10765 Jul 31 01:32	17° $\text{♄}$ 11'25	0°34'59
	10760 Jan 26 03:55	0° $\text{♄}$		max. Earth dist.	10765 Jul 31 01:30	17° $\text{♄}$ 11'24	5.91554 AU
evening set	10760 Feb 07 03:52	2° $\text{♄}$ 31'05		morning rise	10765 Aug 13 08:27	20° $\text{♄}$ 26'07	
max. Earth dist.	10760 Feb 19 11:55	5° $\text{♄}$ 08'50	6.50650 AU		10765 Sep 23 17:01	0° $\text{♄}$	
				retrograde	10765 Dec 23 07:30	11° $\text{♄}$ 17'03	
conjunction	10760 Feb 20 05:14	5° $\text{♄}$ 18'06	0°25'46	opposition	10766 Feb 20 15:52	6° $\text{♄}$ 16'44	-0°37'32
minimum elong	10760 Feb 20 05:15	5° $\text{♄}$ 18'06	0°26'03	min. Earth dist.	10766 Feb 20 02:59	6° $\text{♄}$ 21'05	3.89655 AU
morning rise	10760 Mar 04 04:25	8° $\text{♄}$ 04'06		direct	10766 Apr 19 18:17	1° $\text{♄}$ 21'55	
retrograde	10760 Jul 02 13:41	24° $\text{♄}$ 37'46		evening set	10766 Aug 24 20:40	21° $\text{♄}$ 34'23	
opposition	10760 Sep 01 16:01	19° $\text{♄}$ 43'34	0°23'45				
min. Earth dist.	10760 Sep 02 12:31	19° $\text{♄}$ 36'59	4.50193 AU	conjunction	10766 Sep 07 08:13	24° $\text{♄}$ 51'29	-0°12'35
direct	10760 Nov 03 07:02	14° $\text{♄}$ 42'19		minimum elong	10766 Sep 07 08:13	24° $\text{♄}$ 51'29	0°12'41
	10761 Feb 27 11:36	0° $\text{♄}$		behind sun begin	10766 Sep 07 02:58	24° $\text{♄}$ 48'18	
evening set	10761 Mar 08 06:49	1° $\text{♄}$ 52'10		behind sun end	10766 Sep 07 13:29	24° $\text{♄}$ 54'41	
max. Earth dist.	10761 Mar 19 11:01	4° $\text{♄}$ 16'31	6.47502 AU	max. Earth dist.	10766 Sep 08 22:04	25° $\text{♄}$ 14'35	5.90657 AU
				morning rise	10766 Sep 20 21:54	28° $\text{♄}$ 09'39	
conjunction	10761 Mar 21 04:22	4° $\text{♄}$ 38'50	0°05'41		10766 Sep 28 13:18	0° $\text{♄}$	
minimum elong	10761 Mar 21 04:21	4° $\text{♄}$ 38'50	0°05'41	retrograde	10767 Jan 30 13:35	18° $\text{♄}$ 53'56	
behind sun begin	10761 Mar 20 20:42	4° $\text{♄}$ 34'43		asc. node	10767 Mar 13 07:21	16° $\text{♄}$ 08'44	
behind sun end	10761 Mar 21 12:00	4° $\text{♄}$ 42'57		opposition	10767 Mar 30 21:15	13° $\text{♄}$ 50'43	0°01'51
morning rise	10761 Apr 03 00:02	7° $\text{♄}$ 24'45		min. Earth dist.	10767 Mar 29 12:08	14° $\text{♄}$ 01'58	3.94524 AU
desc. node	10761 Jun 30 19:57	22° $\text{♄}$ 40'37		direct	10767 May 27 20:53	8° $\text{♄}$ 54'46	
retrograde	10761 Aug 02 03:31	24° $\text{♄}$ 14'46		evening set	10767 Oct 01 23:06	28° $\text{♄}$ 41'34	
opposition	10761 Oct 02 04:36	19° $\text{♄}$ 21'35	-0°07'50		10767 Oct 07 11:36	0° $\text{♄}$	
min. Earth dist.	10761 Oct 03 16:11	19° $\text{♄}$ 10'13	4.42821 AU				
direct	10761 Dec 03 17:20	14° $\text{♄}$ 20'50		conjunction	10767 Oct 15 13:56	1° $\text{♄}$ 55'23	0°14'15
	10762 Mar 29 22:43	0° $\text{♄}$		minimum elong	10767 Oct 15 13:55	1° $\text{♄}$ 55'23	0°14'31
evening set	10762 Apr 07 18:25	1° $\text{♄}$ 55'27		behind sun begin	10767 Oct 15 10:25	1° $\text{♄}$ 53'18	
max. Earth dist.	10762 Apr 18 06:08	4° $\text{♄}$ 14'34	6.36339 AU	behind sun end	10767 Oct 15 17:26	1° $\text{♄}$ 57'27	
				max. Earth dist.	10767 Oct 18 00:14	2° $\text{♄}$ 29'59	6.00692 AU
conjunction	10762 Apr 20 13:46	4° $\text{♄}$ 45'26	-0°16'28	morning rise	10767 Oct 29 06:25	5° $\text{♄}$ 09'43	
minimum elong	10762 Apr 20 13:45	4° $\text{♄}$ 45'25	0°16'44		10767 Dec 12 13:59	15° $\text{♄}$	
morning rise	10762 May 03 07:54	7° $\text{♄}$ 35'04		retrograde	10768 Mar 06 09:31	24° $\text{♄}$ 56'26	
	10762 Jun 07 08:20	15° $\text{♄}$		min. Earth dist.	10768 May 03 10:09	20° $\text{♄}$ 05'44	4.08526 AU
retrograde	10762 Sep 03 13:20	25° $\text{♄}$ 11'20		opposition	10768 May 05 01:31	19° $\text{♄}$ 52'24	0°38'39
opposition	10762 Nov 03 09:01	20° $\text{♄}$ 17'55	-0°38'52		10768 Jun 25 08:14	15° $\text{♄}$	
min. Earth dist.	10762 Nov 05 00:44	20° $\text{♄}$ 05'09	4.28491 AU	direct	10768 Jul 02 20:46	14° $\text{♄}$ 54'15	
direct	10763 Jan 04 02:00	15° $\text{♄}$ 18'21			10768 Jul 10 09:51	15° $\text{♄}$	
	10763 Apr 23 11:01	0° $\text{♄}$			10768 Oct 20 09:03	0° $\text{♄}$	
evening set	10763 May 09 14:10	3° $\text{♄}$ 37'30		evening set	10768 Nov 06 12:42	3° $\text{♄}$ 50'38	
max. Earth dist.	10763 May 20 04:37	6° $\text{♄}$ 03'29	6.19882 AU				
				conjunction	10768 Nov 20 02:39	6° $\text{♄}$ 56'24	0°34'36
conjunction	10763 May 22 09:41	6° $\text{♄}$ 34'03	-0°34'39	minimum elong	10768 Nov 20 02:38	6° $\text{♄}$ 56'23	0°35'06

max. Earth dist.	10768 Nov 22 11:34	7°♏28'53	6.17287 AU	evening set	10775 May 14 04:31	8°♐21'50	
morning rise	10768 Dec 03 16:40	10°♏01'51		max. Earth dist.	10775 May 24 19:07	10°♐48'47	6.17364 AU
retrograde	10769 Apr 08 12:58	28°♏32'11					
min. Earth dist.	10769 Jun 06 07:45	23°♏40'20	4.26033 AU	conjunction	10775 May 27 00:13	11°♐19'32	-0°36'30
opposition	10769 Jun 07 14:59	23°♏29'54	0°59'24	minimum elong	10775 May 27 00:12	11°♐19'31	0°37'02
direct	10769 Aug 06 17:15	18°♏29'57		morning rise	10775 Jun 08 19:55	14°♐17'33	
	10769 Nov 09 19:03	0°♏			10775 Aug 28 08:03	0°♏	
evening set	10769 Dec 10 18:26	6°♏33'34		retrograde	10775 Oct 13 18:43	3°♏15'06	
					10775 Nov 29 24:00	30°♏♐	
conjunction	10769 Dec 24 04:24	9°♏30'25	0°42'34	opposition	10775 Dec 13 00:31	28°♐20'11	-1°01'37
minimum elong	10769 Dec 24 04:24	9°♏30'25	0°43'09	min. Earth dist.	10775 Dec 14 06:43	28°♐10'19	4.08549 AU
max. Earth dist.	10769 Dec 25 16:32	9°♏50'18	6.34258 AU	direct	10776 Feb 11 05:07	23°♐22'54	
morning rise	10770 Jan 06 13:29	12°♏26'32			10776 Apr 18 10:23	0°♏	
retrograde	10770 May 09 09:49	29°♏51'01		evening set	10776 Jun 16 11:38	12°♏44'23	
opposition	10770 Jul 08 23:32	24°♏51'48	1°00'49	max. Earth dist.	10776 Jun 28 04:37	15°♏32'40	6.00703 AU
min. Earth dist.	10770 Jul 08 08:17	24°♏56'48	4.41174 AU				
direct	10770 Sep 08 07:21	19°♏50'46		conjunction	10776 Jun 29 11:06	15°♏51'00	-0°42'14
	10770 Dec 07 08:37	0°♏		minimum elong	10776 Jun 29 11:06	15°♏51'00	0°42'49
evening set	10771 Jan 11 19:49	7°♏15'17		morning rise	10776 Jul 12 11:44	18°♏58'33	
					10776 Aug 30 19:15	0°♏	
conjunction	10771 Jan 25 01:06	10°♏05'23	0°37'51	retrograde	10776 Nov 19 18:36	9°♏10'45	
minimum elong	10771 Jan 25 01:07	10°♏05'23	0°38'19	opposition	10777 Jan 18 10:25	4°♏13'20	-0°59'16
max. Earth dist.	10771 Jan 25 09:01	10°♏09'38	6.46498 AU	min. Earth dist.	10777 Jan 18 20:00	4°♏10'08	3.94410 AU
morning rise	10771 Feb 07 04:28	12°♏54'29			10777 Feb 25 19:53	30°♏♐	
	10771 Feb 17 01:50	15°♏		direct	10777 Mar 18 07:02	29°♏18'00	
retrograde	10771 Jun 08 03:13	29°♏38'20			10777 Apr 07 15:48	0°♏	
opposition	10771 Aug 08 01:17	24°♏42'14	0°45'51		10777 Jul 04 22:17	15°♏	
min. Earth dist.	10771 Aug 08 05:53	24°♏40'45	4.49799 AU	evening set	10777 Jul 23 03:21	19°♏21'54	
direct	10771 Oct 09 07:50	19°♏40'53					
	10772 Jan 09 01:54	0°♏		conjunction	10777 Aug 05 09:21	22°♏36'23	-0°32'08
evening set	10772 Feb 11 10:18	6°♏47'11		minimum elong	10777 Aug 05 09:22	22°♏36'24	0°32'32
				max. Earth dist.	10777 Aug 05 15:07	22°♏39'54	5.90524 AU
conjunction	10772 Feb 24 10:52	9°♏33'48	0°23'11	morning rise	10777 Aug 18 17:25	25°♏52'07	
minimum elong	10772 Feb 24 10:53	9°♏33'48	0°23'26		10777 Sep 04 22:42	0°♏	
max. Earth dist.	10772 Feb 23 12:43	9°♏21'58	6.50915 AU	retrograde	10777 Dec 28 20:08	16°♏46'42	
morning rise	10772 Mar 08 09:35	12°♏19'30		min. Earth dist.	10778 Feb 25 10:25	11°♏51'39	3.89474 AU
retrograde	10772 Jul 06 19:48	28°♏53'01		opposition	10778 Feb 26 03:12	11°♏45'59	-0°32'30
opposition	10772 Sep 05 21:36	23°♏59'01	0°19'30	direct	10778 Apr 25 02:35	6°♏51'13	
min. Earth dist.	10772 Sep 06 21:26	23°♏51'24	4.49840 AU	evening set	10778 Aug 30 07:08	27°♏03'05	
direct	10772 Nov 07 14:14	18°♏57'46			10778 Sep 11 10:08	0°♏	
	10773 Feb 10 19:01	0°♏					
evening set	10773 Mar 12 12:22	6°♏09'11		conjunction	10778 Sep 12 19:16	0°♏20'10	-0°08'47
max. Earth dist.	10773 Mar 23 13:32	8°♏32'14	6.46536 AU	minimum elong	10778 Sep 12 19:17	0°♏20'11	0°08'50
				behind sun begin	10778 Sep 12 12:06	0°♏15'49	
conjunction	10773 Mar 25 09:34	8°♏56'03	0°02'33	behind sun end	10778 Sep 13 02:28	0°♏24'32	
minimum elong	10773 Mar 25 09:33	8°♏56'03	0°02'31	max. Earth dist.	10778 Sep 14 12:30	0°♏45'16	5.91339 AU
behind sun begin	10773 Mar 25 01:35	8°♏51'46		morning rise	10778 Sep 26 09:50	3°♏38'22	
behind sun end	10773 Mar 25 17:32	9°♏00'21		asc. node	10779 Jan 21 06:09	23°♏56'16	
morning rise	10773 Apr 07 04:49	11°♏42'12		retrograde	10779 Feb 04 18:49	24°♏17'31	
desc. node	10773 May 09 18:11	18°♏27'02		min. Earth dist.	10779 Apr 03 16:35	19°♏26'06	3.95999 AU
retrograde	10773 Aug 06 11:57	28°♏36'30		opposition	10779 Apr 05 04:10	19°♏14'00	0°07'40
opposition	10773 Oct 06 13:39	23°♏43'21	-0°12'26	direct	10779 Jun 02 05:28	14°♏17'48	
min. Earth dist.	10773 Oct 08 01:44	23°♏31'49	4.41294 AU		10779 Sep 20 03:32	0°♏	
direct	10773 Dec 07 23:34	18°♏42'44		evening set	10779 Oct 07 06:36	3°♏58'28	
	10774 Mar 13 04:25	0°♏					
evening set	10774 Apr 12 02:46	6°♏22'15		conjunction	10779 Oct 20 21:39	7°♏11'21	0°17'44
max. Earth dist.	10774 Apr 22 14:12	8°♏41'51	6.34349 AU	minimum elong	10779 Oct 20 21:39	7°♏11'21	0°18'03
				max. Earth dist.	10779 Oct 23 10:19	7°♏47'10	6.02827 AU
conjunction	10774 Apr 24 21:57	9°♏12'56	-0°19'23	morning rise	10779 Nov 03 13:54	10°♏24'33	
minimum elong	10774 Apr 24 21:57	9°♏12'55	0°19'43		10779 Nov 23 13:43	15°♏	
morning rise	10774 May 07 16:00	12°♏03'20			10780 Mar 09 04:54	0°♏	
	10774 May 21 02:04	15°♏		retrograde	10780 Mar 11 07:14	0°♏00'26	
retrograde	10774 Sep 08 08:08	29°♏48'05			10780 Mar 13 09:26	30°♏♏	
opposition	10774 Nov 08 01:18	24°♏54'37	-0°42'39	min. Earth dist.	10780 May 08 08:58	25°♏09'33	4.11069 AU
min. Earth dist.	10774 Nov 09 17:59	24°♏41'32	4.26146 AU	opposition	10780 May 09 23:35	24°♏56'29	0°42'44
direct	10775 Jan 08 15:28	19°♏55'18		direct	10780 Jul 07 23:38	19°♏58'03	
	10775 Apr 05 19:21	0°♏			10780 Oct 01 19:26	0°♏	



evening set	10780 Nov 11 12:27	8° $\mathbb{X}$ 45'54		direct	10785 Dec 12 07:48	23° $\Upsilon$ 04'51	
					10786 Feb 22 01:51	0° $\mathcal{B}$	
conjunction	10780 Nov 25 01:53	11° $\mathbb{X}$ 50'14	0°36'31	evening set	10786 Apr 16 11:35	10° $\mathcal{B}$ 50'49	
minimum elong	10780 Nov 25 01:52	11° $\mathbb{X}$ 50'14	0°37'03	max. Earth dist.	10786 Apr 26 21:47	13° $\mathcal{B}$ 10'29	6.31865 AU
max. Earth dist.	10780 Nov 27 09:20	12° $\mathbb{X}$ 21'41	6.20000 AU				
morning rise	10780 Dec 08 15:21	14° $\mathbb{X}$ 54'13		conjunction	10786 Apr 29 06:50	13° $\mathcal{B}$ 42'27	-0°22'13
	10781 Feb 25 20:08	0° $\mathcal{B}$		minimum elong	10786 Apr 29 06:49	13° $\mathcal{B}$ 42'27	0°22'35
retrograde	10781 Apr 12 22:44	3° $\mathcal{B}$ 13'13			10786 May 05 01:08	15° $\mathcal{B}$	
	10781 May 29 06:05	30° $\mathcal{R}$ $\mathbb{X}$		morning rise	10786 May 12 00:58	16° $\mathcal{B}$ 33'52	
min. Earth dist.	10781 Jun 10 21:36	28° $\mathbb{X}$ 21'18	4.28676 AU		10786 Jul 19 12:40	0° $\mathbb{I}$	
opposition	10781 Jun 12 03:45	28° $\mathbb{X}$ 11'14	1°00'41	retrograde	10786 Sep 13 02:53	4° $\mathbb{I}$ 28'50	
direct	10781 Aug 11 09:34	23° $\mathbb{X}$ 11'03			10786 Nov 09 14:12	30° $\mathcal{R}$ $\mathcal{B}$	
	10781 Oct 20 20:57	0° $\mathcal{B}$		opposition	10786 Nov 12 19:11	29° $\mathcal{B}$ 35'13	-0°46'15
evening set	10781 Dec 15 09:05	11° $\mathcal{B}$ 07'03		min. Earth dist.	10786 Nov 14 10:28	29° $\mathcal{B}$ 22'33	4.23376 AU
				direct	10787 Jan 13 03:29	24° $\mathcal{B}$ 36'08	
conjunction	10781 Dec 28 18:24	14° $\mathcal{B}$ 02'39	0°42'35		10787 Mar 15 11:52	0° $\mathbb{I}$	
minimum elong	10781 Dec 28 18:24	14° $\mathcal{B}$ 02'39	0°43'09	evening set	10787 May 18 21:13	13° $\mathbb{I}$ 11'34	
max. Earth dist.	10781 Dec 30 02:47	14° $\mathcal{B}$ 20'23	6.36632 AU	max. Earth dist.	10787 May 29 15:02	15° $\mathbb{I}$ 41'17	6.14541 AU
morning rise	10782 Jan 11 02:34	16° $\mathcal{B}$ 57'26					
	10782 Mar 20 15:01	0° $\approx$		conjunction	10787 May 31 17:18	16° $\mathbb{I}$ 10'36	-0°38'08
retrograde	10782 May 13 15:13	4° $\approx$ 13'37		minimum elong	10787 May 31 17:17	16° $\mathbb{I}$ 10'36	0°38'41
	10782 Jul 07 11:15	30° $\mathcal{R}$ $\mathcal{B}$		morning rise	10787 Jun 13 13:31	19° $\mathbb{I}$ 10'04	
opposition	10782 Jul 13 05:48	29° $\mathcal{B}$ 14'50	0°59'32		10787 Aug 02 16:09	0° $\mathcal{B}$	
min. Earth dist.	10782 Jul 12 17:49	29° $\mathcal{B}$ 18'45	4.43099 AU	retrograde	10787 Oct 19 02:03	8° $\mathcal{B}$ 19'54	
direct	10782 Sep 12 18:22	24° $\mathcal{B}$ 13'42		opposition	10787 Dec 18 04:39	3° $\mathcal{B}$ 24'42	-1°02'45
	10782 Nov 17 03:21	0° $\approx$		min. Earth dist.	10787 Dec 19 09:08	3° $\mathcal{B}$ 15'23	4.05910 AU
evening set	10783 Jan 16 03:37	11° $\approx$ 33'23			10788 Jan 16 00:24	30° $\mathcal{R}$ $\mathbb{I}$	
				direct	10788 Feb 16 05:04	28° $\mathbb{I}$ 27'44	
conjunction	10783 Jan 29 08:06	14° $\approx$ 22'40	0°36'16		10788 Mar 18 03:46	0° $\mathcal{B}$	
minimum elong	10783 Jan 29 08:07	14° $\approx$ 22'41	0°36'44	evening set	10788 Jun 21 13:31	17° $\mathcal{B}$ 57'35	
max. Earth dist.	10783 Jan 29 10:35	14° $\approx$ 24'00	6.47826 AU				
	10783 Feb 01 05:44	15° $\approx$		conjunction	10788 Jul 04 13:54	21° $\mathcal{B}$ 05'36	-0°41'46
morning rise	10783 Feb 11 10:51	17° $\approx$ 11'00		minimum elong	10788 Jul 04 13:54	21° $\mathcal{B}$ 05'36	0°42'19
	10783 Apr 21 12:40	0° $\mathcal{H}$		max. Earth dist.	10788 Jul 03 12:06	20° $\mathcal{B}$ 50'02	5.98513 AU
retrograde	10783 Jun 12 05:31	3° $\mathcal{H}$ 50'58		morning rise	10788 Jul 17 15:34	24° $\mathcal{B}$ 14'38	
	10783 Aug 03 17:44	30° $\mathcal{R}$ $\approx$			10788 Aug 11 04:33	0° $\mathcal{Q}$	
opposition	10783 Aug 12 04:26	28° $\approx$ 55'09	0°42'41	retrograde	10788 Nov 25 07:52	14° $\mathcal{Q}$ 36'19	
min. Earth dist.	10783 Aug 12 12:14	28° $\approx$ 52'39	4.50467 AU	opposition	10789 Jan 23 22:02	9° $\mathcal{Q}$ 38'28	-0°56'47
direct	10783 Oct 13 13:01	23° $\approx$ 53'42		min. Earth dist.	10789 Jan 24 02:58	9° $\mathcal{Q}$ 36'50	3.92941 AU
	10783 Dec 20 14:27	0° $\mathcal{H}$		direct	10789 Mar 23 13:39	4° $\mathcal{Q}$ 43'23	
evening set	10784 Feb 15 14:28	10° $\mathcal{H}$ 58'56			10789 Jun 15 21:17	15° $\mathcal{Q}$	
				evening set	10789 Jul 28 12:49	24° $\mathcal{Q}$ 51'07	
conjunction	10784 Feb 28 14:39	13° $\mathcal{H}$ 45'22	0°20'32				
minimum elong	10784 Feb 28 14:40	13° $\mathcal{H}$ 45'23	0°20'44	conjunction	10789 Aug 10 19:39	28° $\mathcal{Q}$ 06'20	-0°29'24
max. Earth dist.	10784 Feb 27 13:45	13° $\mathcal{H}$ 32'03	6.50875 AU	minimum elong	10789 Aug 10 19:40	28° $\mathcal{Q}$ 06'21	0°29'45
morning rise	10784 Mar 12 12:38	16° $\mathcal{H}$ 30'52		max. Earth dist.	10789 Aug 11 06:28	28° $\mathcal{Q}$ 12'58	5.89920 AU
	10784 May 25 21:44	0° $\Upsilon$			10789 Aug 18 13:05	0° $\mathcal{H}$	
retrograde	10784 Jul 10 23:06	3° $\Upsilon$ 05'20		morning rise	10789 Aug 24 04:53	1° $\mathcal{H}$ 22'52	
	10784 Aug 26 13:54	30° $\mathcal{R}$ $\mathcal{H}$		retrograde	10790 Jan 03 07:23	22° $\mathcal{H}$ 18'43	
opposition	10784 Sep 10 01:49	28° $\mathcal{H}$ 11'31	0°15'12	opposition	10790 Mar 03 15:27	17° $\mathcal{H}$ 17'28	-0°27'06
min. Earth dist.	10784 Sep 11 03:33	28° $\mathcal{H}$ 03'17	4.49093 AU	min. Earth dist.	10790 Mar 02 18:43	17° $\mathcal{H}$ 24'29	3.89815 AU
direct	10784 Nov 11 17:41	23° $\mathcal{H}$ 10'17		direct	10790 Apr 30 13:59	12° $\mathcal{H}$ 22'33	
	10785 Jan 22 23:32	0° $\Upsilon$			10790 Aug 25 05:14	0° $\mathcal{L}$	
evening set	10785 Mar 16 16:58	10° $\Upsilon$ 24'30		evening set	10790 Sep 04 18:12	2° $\mathcal{L}$ 31'34	
desc. node	10785 Mar 18 08:12	10° $\Upsilon$ 45'39					
max. Earth dist.	10785 Mar 27 14:03	12° $\Upsilon$ 45'51	6.45118 AU	conjunction	10790 Sep 18 07:08	5° $\mathcal{L}$ 48'23	-0°04'54
				minimum elong	10790 Sep 18 07:07	5° $\mathcal{L}$ 48'23	0°04'54
conjunction	10785 Mar 29 13:40	13° $\Upsilon$ 11'44	-0°00'39	behind sun begin	10790 Sep 17 22:58	5° $\mathcal{L}$ 43'28	
minimum elong	10785 Mar 29 13:40	13° $\Upsilon$ 11'44	0°00'43	behind sun end	10790 Sep 18 15:16	5° $\mathcal{L}$ 53'18	
behind sun begin	10785 Mar 29 05:41	13° $\Upsilon$ 07'25		max. Earth dist.	10790 Sep 20 05:51	6° $\mathcal{L}$ 16'44	5.92580 AU
behind sun end	10785 Mar 29 21:39	13° $\Upsilon$ 16'03		morning rise	10790 Oct 01 22:01	9° $\mathcal{L}$ 06'07	
morning rise	10785 Apr 11 08:47	15° $\Upsilon$ 58'20		asc. node	10790 Nov 30 01:42	22° $\mathcal{L}$ 06'05	
	10785 Jun 26 21:53	0° $\mathcal{B}$		retrograde	10791 Feb 10 00:53	29° $\mathcal{L}$ 37'36	
retrograde	10785 Aug 10 23:53	2° $\mathcal{B}$ 58'33		min. Earth dist.	10791 Apr 08 21:37	24° $\mathcal{L}$ 46'11	3.97962 AU
	10785 Sep 25 14:07	30° $\mathcal{R}$ $\Upsilon$		opposition	10791 Apr 10 09:54	24° $\mathcal{L}$ 33'51	0°13'23
opposition	10785 Oct 10 23:14	28° $\Upsilon$ 05'25	-0°16'57	direct	10791 Jun 07 14:33	19° $\mathcal{L}$ 37'21	
min. Earth dist.	10785 Oct 12 13:42	27° $\Upsilon$ 53'07	4.39270 AU		10791 Sep 01 09:29	0° $\mathcal{M}$	

evening set	10791 Oct 12 12:46	9°♄10'21		desc. node	10797 Jan 24 01:24	3°♃46'47	
				evening set	10797 Mar 20 23:33	14°♃45'48	
conjunction	10791 Oct 26 03:44	12°♄22'04	0°21'04	max. Earth dist.	10797 Mar 31 19:20	17°♃06'56	6.43447 AU
minimum elong	10791 Oct 26 03:43	12°♄22'03	0°21'25				
max. Earth dist.	10791 Oct 28 17:19	12°♄58'12	6.05282 AU	conjunction	10797 Apr 02 20:07	17°♃33'33	-0°03'51
	10791 Nov 06 09:28	15°♄		minimum elong	10797 Apr 02 20:08	17°♃33'33	0°03'59
morning rise	10791 Nov 08 19:51	15°♄34'00		behind sun begin	10797 Apr 02 12:15	17°♃29'17	
	10792 Jan 18 07:42	0°♂		behind sun end	10797 Apr 03 04:01	17°♃37'50	
retrograde	10792 Mar 16 00:18	4°♂58'12		morning rise	10797 Apr 15 14:52	20°♃20'41	
min. Earth dist.	10792 May 13 04:36	0°♂07'31	4.13757 AU		10797 Jun 02 08:26	0°♂	
opposition	10792 May 14 19:25	29°♄54'25	0°46'25	retrograde	10797 Aug 15 12:11	7°♂27'39	
	10792 May 14 02:53	30°♄♄		opposition	10797 Oct 15 11:14	2°♂34'33	-0°21'31
direct	10792 Jul 12 22:28	24°♄55'43		min. Earth dist.	10797 Oct 17 01:59	2°♂22'09	4.37127 AU
	10792 Sep 09 12:45	0°♂			10797 Nov 05 14:48	30°♃♃	
evening set	10792 Nov 16 10:04	13°♂35'06		direct	10797 Dec 16 15:52	27°♃34'13	
					10798 Jan 26 12:23	0°♂	
conjunction	10792 Nov 29 22:56	16°♂38'02	0°38'10		10798 Apr 18 22:41	15°♂	
minimum elong	10792 Nov 29 22:55	16°♂38'02	0°38'43	evening set	10798 Apr 20 23:13	15°♂27'03	
max. Earth dist.	10792 Dec 02 02:46	17°♂07'17	6.22686 AU	max. Earth dist.	10798 May 01 09:11	17°♂47'25	6.29407 AU
morning rise	10792 Dec 13 11:41	19°♂40'33					
	10793 Feb 01 04:48	0°♂		conjunction	10798 May 03 18:19	18°♂19'38	-0°24'59
retrograde	10793 Apr 17 09:19	7°♂49'02		minimum elong	10798 May 03 18:18	18°♂19'38	0°25'23
opposition	10793 Jun 16 14:59	2°♂47'31	1°01'35	morning rise	10798 May 16 12:41	21°♂12'08	
min. Earth dist.	10793 Jun 15 12:04	2°♂56'28	4.31135 AU		10798 Jun 26 21:23	0°♄	
	10793 Jul 09 00:05	30°♃♂		retrograde	10798 Sep 18 02:51	9°♄17'21	
direct	10793 Aug 16 02:29	27°♂47'10		opposition	10798 Nov 17 16:09	4°♄23'37	-0°49'38
	10793 Sep 23 12:51	0°♂		min. Earth dist.	10798 Nov 19 07:07	4°♄11'01	4.20776 AU
evening set	10793 Dec 19 22:29	15°♂36'39			10798 Dec 29 13:07	30°♃♂	
				direct	10799 Jan 17 21:01	29°♂24'52	
conjunction	10794 Jan 02 07:09	18°♂31'10	0°42'22		10799 Feb 06 03:50	0°♄	
minimum elong	10794 Jan 02 07:10	18°♂31'10	0°42'56	evening set	10799 May 23 16:07	18°♄08'24	
max. Earth dist.	10794 Jan 03 11:52	18°♂46'49	6.38681 AU	max. Earth dist.	10799 Jun 03 13:24	20°♄40'59	6.12046 AU
morning rise	10794 Jan 15 14:31	21°♂24'49					
	10794 Feb 26 15:57	0°♄		conjunction	10799 Jun 05 12:42	21°♄08'43	-0°39'32
retrograde	10794 May 17 18:15	8°♄34'07		minimum elong	10799 Jun 05 12:42	21°♄08'42	0°40'07
opposition	10794 Jul 17 11:15	3°♄35'48	0°57'57	morning rise	10799 Jun 18 09:28	24°♄09'29	
min. Earth dist.	10794 Jul 17 01:31	3°♄38'59	4.44629 AU		10799 Jul 14 01:40	0°♄	
	10794 Aug 17 09:02	30°♃♂		retrograde	10799 Oct 24 08:50	13°♄30'12	
direct	10794 Sep 17 02:11	28°♂34'38		opposition	10799 Dec 23 10:25	8°♄34'44	-1°03'26
	10794 Oct 18 05:03	0°♄		min. Earth dist.	10799 Dec 24 11:14	8°♄26'36	4.03783 AU
	10795 Jan 16 10:51	15°♄		direct	10800 Feb 21 05:10	3°♄38'10	
evening set	10795 Jan 20 11:15	15°♄51'04		evening set	10800 Jun 26 16:40	23°♄14'15	
conjunction	10795 Feb 02 15:07	18°♄39'46	0°34'31	conjunction	10800 Jul 09 17:41	26°♄23'20	-0°41'00
minimum elong	10795 Feb 02 15:08	18°♄39'46	0°34'56	minimum elong	10800 Jul 09 17:42	26°♄23'20	0°41'32
max. Earth dist.	10795 Feb 02 13:35	18°♄38'56	6.48741 AU	max. Earth dist.	10800 Jul 08 20:42	26°♄10'37	5.96967 AU
morning rise	10795 Feb 15 17:05	21°♄27'29		morning rise	10800 Jul 22 20:23	29°♄33'31	
	10795 Mar 30 09:01	0°♄			10800 Jul 24 16:28	0°♄	
retrograde	10795 Jun 16 09:24	8°♄05'05			10800 Oct 03 23:13	15°♄	
opposition	10795 Aug 16 08:28	3°♄09'42	0°39'17	retrograde	10800 Nov 30 19:23	20°♄01'46	
min. Earth dist.	10795 Aug 16 19:31	3°♄06'08	4.50722 AU	opposition	10801 Jan 29 08:48	15°♄03'24	-0°53'52
	10795 Sep 12 00:17	30°♃♄		min. Earth dist.	10801 Jan 29 09:35	15°♄03'08	3.92161 AU
direct	10795 Oct 17 19:20	28°♄08'18			10801 Jan 29 18:59	15°♃♄	
	10795 Nov 22 20:29	0°♄		direct	10801 Mar 28 21:49	10°♄08'24	
evening set	10796 Feb 19 19:45	15°♄13'47			10801 May 23 10:11	15°♄	
					10801 Aug 01 16:35	0°♄	
conjunction	10796 Mar 03 19:17	18°♄00'11	0°17'45	evening set	10801 Aug 02 20:51	0°♄17'12	
minimum elong	10796 Mar 03 19:18	18°♄00'11	0°17'56				
max. Earth dist.	10796 Mar 02 13:10	17°♄44'03	6.50439 AU	conjunction	10801 Aug 16 04:44	3°♄32'50	-0°26'29
morning rise	10796 Mar 16 16:57	20°♄45'41		minimum elong	10801 Aug 16 04:45	3°♄32'51	0°26'47
	10796 May 02 04:40	0°♃		max. Earth dist.	10801 Aug 16 22:44	3°♄43'51	5.90004 AU
retrograde	10796 Jul 15 06:41	7°♃22'30		morning rise	10801 Aug 29 14:42	6°♄49'41	
opposition	10796 Sep 14 08:06	2°♃28'52	0°10'46	retrograde	10802 Jan 08 16:58	27°♄43'37	
min. Earth dist.	10796 Sep 15 12:24	2°♃19'49	4.48004 AU	min. Earth dist.	10802 Mar 08 01:20	22°♄49'42	3.90760 AU
	10796 Oct 04 15:50	30°♃♄		opposition	10802 Mar 09 00:22	22°♄41'54	-0°21'40
direct	10796 Nov 15 23:38	27°♄27'41		direct	10802 May 05 23:22	17°♄46'51	
	10796 Dec 28 06:54	0°♃			10802 Aug 07 06:12	0°♄	

evening set	10802 Sep 10 01:30	7°♌50'47		minimum elong	10808 Mar 07 23:32	22°♎12'56	0°15'05
				behind sun begin	10808 Mar 07 20:44	22°♎11'26	
conjunction	10802 Sep 23 14:47	11°♌06'58 -0°01'06		behind sun end	10808 Mar 08 02:19	22°♎14'25	
minimum elong	10802 Sep 23 14:47	11°♌06'58 0°01'02		max. Earth dist.	10808 Mar 06 15:27	21°♎55'42	6.49700 AU
behind sun begin	10802 Sep 23 06:24	11°♌01'56		morning rise	10808 Mar 20 20:37	24°♎58'32	
behind sun end	10802 Sep 23 23:10	11°♌12'01			10808 Apr 14 00:08	0°♏	
max. Earth dist.	10802 Sep 25 16:30	11°♌36'58 5.94256 AU		retrograde	10808 Jul 19 13:10	11°♏38'31	
morning rise	10802 Oct 07 06:10	14°♌24'03		opposition	10808 Sep 18 14:27	6°♏45'05 0°06'20	
asc. node	10802 Oct 09 17:40	14°♌59'35		min. Earth dist.	10808 Sep 19 20:37	6°♏35'26	4.46733 AU
	10802 Dec 20 22:49	0°♍		direct	10808 Nov 20 05:19	1°♏44'03	
retrograde	10803 Feb 14 23:16	4°♍46'14		desc. node	10808 Dec 03 20:02	2°♏00'39	
	10803 Apr 13 06:35	30°♋♌		evening set	10809 Mar 25 06:10	19°♏06'20	
min. Earth dist.	10803 Apr 13 20:35	29°♌55'15 4.00180 AU		max. Earth dist.	10809 Apr 04 22:50	21°♏26'24 6.41726 AU	
opposition	10803 Apr 15 10:37	29°♌42'20 0°18'43					
direct	10803 Jun 12 17:03	24°♌45'30		conjunction	10809 Apr 07 02:20	21°♏54'37 -0°06'57	
	10803 Aug 10 05:41	0°♍		minimum elong	10809 Apr 07 02:19	21°♏54'37 0°07'08	
evening set	10803 Oct 17 14:03	14°♍10'18		behind sun begin	10809 Apr 06 18:58	21°♏50'36	
	10803 Oct 21 03:33	15°♍		behind sun end	10809 Apr 07 09:41	21°♏58'37	
				morning rise	10809 Apr 19 21:03	24°♏42'23	
conjunction	10803 Oct 31 04:49	17°♍20'44 0°24'05			10809 May 14 19:02	0°♐	
minimum elong	10803 Oct 31 04:48	17°♍20'43 0°24'27		retrograde	10809 Aug 20 02:22	11°♐56'15	
max. Earth dist.	10803 Nov 02 16:42	17°♍55'41 6.07812 AU		opposition	10809 Oct 19 23:52	7°♐03'06 -0°25'54	
morning rise	10803 Nov 13 20:37	20°♍31'20		min. Earth dist.	10809 Oct 21 15:10	6°♐50'30 4.35052 AU	
	10803 Dec 27 06:24	0°♑		direct	10809 Dec 21 02:12	2°♐02'57	
retrograde	10804 Mar 20 14:09	9°♑44'06			10810 Apr 02 10:30	15°♐	
min. Earth dist.	10804 May 17 21:57	4°♑52'51 4.16337 AU		evening set	10810 Apr 25 10:25	20°♐02'04	
opposition	10804 May 19 10:28	4°♑40'32 0°49'38		max. Earth dist.	10810 May 05 22:05	22°♐24'04 6.27133 AU	
	10804 Jul 04 03:22	30°♋♍					
direct	10804 Jul 17 18:52	29°♍41'32		conjunction	10810 May 08 05:41	22°♐55'35 -0°27'34	
	10804 Jul 31 11:51	0°♑		minimum elong	10810 May 08 05:40	22°♐55'35 0°28'00	
evening set	10804 Nov 21 03:04	18°♑13'06		morning rise	10810 May 21 00:02	25°♐49'01	
					10810 Jun 08 20:40	0°♒	
conjunction	10804 Dec 04 15:33	21°♑14'49 0°39'31		retrograde	10810 Sep 22 23:40	14°♒03'44	
minimum elong	10804 Dec 04 15:32	21°♑14'49 0°40'04		opposition	10810 Nov 22 12:31	9°♒09'50 -0°52'39	
max. Earth dist.	10804 Dec 06 17:29	21°♑42'49 6.25111 AU		min. Earth dist.	10810 Nov 24 01:50	8°♒57'46 4.18462 AU	
morning rise	10804 Dec 18 03:33	24°♑15'59		direct	10811 Jan 22 12:40	4°♒11'24	
	10805 Jan 13 16:26	0°♓		evening set	10811 May 28 10:16	23°♒01'58	
retrograde	10805 Apr 21 14:07	12°♓15'08		max. Earth dist.	10811 Jun 08 09:57	25°♒36'46 6.09861 AU	
opposition	10805 Jun 20 22:17	7°♓14'04 1°02'09					
min. Earth dist.	10805 Jun 19 21:01	7°♓22'27 4.33230 AU		conjunction	10811 Jun 10 07:06	26°♒03'22 -0°40'38	
direct	10805 Aug 20 13:00	2°♓13'37		minimum elong	10811 Jun 10 07:05	26°♒03'21 0°41'13	
evening set	10805 Dec 24 08:26	19°♓57'51		morning rise	10811 Jun 23 04:33	29°♒05'22	
					10811 Jun 27 02:03	0°♔	
conjunction	10806 Jan 06 16:22	22°♓51'28 0°41'57		retrograde	10811 Oct 29 14:34	18°♔35'55	
minimum elong	10806 Jan 06 16:23	22°♓51'28 0°42'30		opposition	10811 Dec 28 14:29	13°♔40'05 -1°03'34	
max. Earth dist.	10806 Jan 07 15:36	23°♓04'05 6.40304 AU		min. Earth dist.	10811 Dec 29 12:26	13°♔32'52 4.01905 AU	
morning rise	10806 Jan 19 23:06	25°♓44'13		direct	10812 Feb 26 05:39	8°♔43'45	
	10806 Feb 09 03:03	0°♕		evening set	10812 Jul 01 17:42	28°♔25'22	
retrograde	10806 May 21 21:55	12°♕48'14			10812 Jul 08 06:17	0°♕	
opposition	10806 Jul 21 14:47	7°♕50'24 0°56'11					
min. Earth dist.	10806 Jul 21 08:53	7°♕52'19 4.45697 AU		conjunction	10812 Jul 14 19:43	1°♕35'31 -0°39'53	
direct	10806 Sep 21 09:57	2°♕49'10		minimum elong	10812 Jul 14 19:44	1°♕35'32 0°40'25	
	10806 Dec 31 06:17	15°♕		max. Earth dist.	10812 Jul 14 04:45	1°♕26'26 5.95581 AU	
evening set	10807 Jan 24 16:50	20°♕03'39		morning rise	10812 Jul 27 23:13	4°♕46'46	
					10812 Sep 10 18:47	15°♕	
conjunction	10807 Feb 06 20:11	22°♕51'59 0°32'39		retrograde	10812 Dec 06 05:41	25°♕21'07	
minimum elong	10807 Feb 06 20:12	22°♕52'00 0°33'02		opposition	10813 Feb 03 17:16	20°♕22'20 -0°50'30	
max. Earth dist.	10807 Feb 06 14:29	22°♕48'56 6.49190 AU		min. Earth dist.	10813 Feb 03 15:16	20°♕23'00 3.91431 AU	
morning rise	10807 Feb 19 21:32	25°♕39'19		direct	10813 Apr 03 03:10	15°♕27'29	
	10807 Mar 12 18:31	0°♎			10813 Jul 15 12:13	0°♎	
retrograde	10807 Jun 20 11:33	12°♎16'01		evening set	10813 Aug 08 02:55	5°♎37'34	
opposition	10807 Aug 20 11:30	7°♎20'55 0°35'48					
min. Earth dist.	10807 Aug 21 00:27	7°♎16'45 4.50564 AU		conjunction	10813 Aug 21 11:32	8°♎53'36 -0°23'22	
direct	10807 Oct 21 22:44	2°♎19'33		minimum elong	10813 Aug 21 11:33	8°♎53'37 0°23'37	
evening set	10808 Feb 24 00:21	19°♎26'25		max. Earth dist.	10813 Aug 22 09:20	9°♎06'57 5.89987 AU	
				morning rise	10813 Sep 03 22:34	12°♎10'55	
conjunction	10808 Mar 07 23:31	22°♎12'55 0°14'57			10813 Nov 30 20:56	0°♏	

retrograde	10814 Jan 13 22:52	3°♏03'36		opposition	10819 Aug 24 16:16	11°♎36'29	0°32'06
	10814 Feb 27 07:30	30°♎07		min. Earth dist.	10819 Aug 25 08:10	11°♎31'22	4.50793 AU
min. Earth dist.	10814 Mar 13 04:22	28°♎10'31	3.91480 AU	direct	10819 Oct 26 06:19	6°♎35'09	
opposition	10814 Mar 14 06:54	28°♎01'32	-0°16'05	evening set	10820 Feb 28 05:22	23°♎41'45	
direct	10814 May 11 05:04	23°♎06'19		max. Earth dist.	10820 Mar 10 16:49	26°♎09'14	6.49450 AU
	10814 Jul 17 10:31	0°♏					
asc. node	10814 Aug 18 16:02	6°♏39'27		conjunction	10820 Mar 12 03:59	26°♎28'07	0°12'04
evening set	10814 Sep 15 07:44	13°♏06'42		minimum elong	10820 Mar 12 03:59	26°♎28'07	0°12'10
				behind sun begin	10820 Mar 11 22:36	26°♎25'15	
conjunction	10814 Sep 28 21:26	16°♏22'26	0°02'46	behind sun end	10820 Mar 12 09:22	26°♎31'00	
minimum elong	10814 Sep 28 21:27	16°♏22'26	0°02'54	morning rise	10820 Mar 25 00:37	29°♎13'39	
behind sun begin	10814 Sep 28 13:06	16°♏17'26			10820 Mar 28 15:38	0°♎	
behind sun end	10814 Sep 29 05:48	16°♏27'27		retrograde	10820 Jul 23 18:26	15°♎55'11	
max. Earth dist.	10814 Oct 01 00:57	16°♏53'26	5.95626 AU	opposition	10820 Sep 22 20:51	11°♎01'45	0°01'55
morning rise	10814 Oct 12 13:10	19°♏38'58		min. Earth dist.	10820 Sep 24 03:53	10°♎51'50	4.46026 AU
	10814 Nov 27 15:58	0°♎		desc. node	10820 Oct 15 19:40	8°♎15'55	
retrograde	10815 Feb 19 22:20	9°♎53'32		direct	10820 Nov 24 11:06	6°♎00'47	
min. Earth dist.	10815 Apr 18 20:42	5°♎02'22	4.02024 AU	evening set	10821 Mar 29 11:36	23°♎25'09	
opposition	10815 Apr 20 10:30	4°♎49'31	0°23'54	max. Earth dist.	10821 Apr 09 04:11	25°♎45'31	6.40608 AU
	10815 Jun 09 05:32	30°♎♏					
direct	10815 Jun 17 20:15	29°♏52'22		conjunction	10821 Apr 11 07:30	26°♎13'42	-0°09'56
	10815 Jun 26 11:25	0°♎		minimum elong	10821 Apr 11 07:29	26°♎13'42	0°10'09
	10815 Oct 04 07:00	15°♎		behind sun begin	10821 Apr 11 01:05	26°♎10'12	
evening set	10815 Oct 22 15:20	19°♎10'44		behind sun end	10821 Apr 11 13:53	26°♎17'11	
				morning rise	10821 Apr 24 01:45	29°♎01'45	
conjunction	10815 Nov 05 06:08	22°♎20'11	0°26'56		10821 Apr 28 12:45	0°♎	
minimum elong	10815 Nov 05 06:07	22°♎20'10	0°27'22		10821 Jul 25 19:54	15°♎	
max. Earth dist.	10815 Nov 07 18:58	22°♎55'29	6.09956 AU	retrograde	10821 Aug 24 12:40	16°♎20'26	
morning rise	10815 Nov 18 21:32	25°♎29'37			10821 Sep 23 06:16	15°♎♎	
	10815 Dec 08 20:50	0°♎♎		opposition	10821 Oct 24 10:21	11°♎27'14	-0°29'59
retrograde	10816 Mar 25 04:18	14°♎♎32'32		min. Earth dist.	10821 Oct 26 02:24	11°♎14'24	4.33573 AU
min. Earth dist.	10816 May 22 14:12	9°♎♎41'24	4.18573 AU	direct	10821 Dec 25 11:11	6°♎27'14	
opposition	10816 May 24 02:15	9°♎♎29'17	0°52'33		10822 Mar 15 15:17	15°♎	
direct	10816 Jul 22 14:02	4°♎♎30'06		evening set	10822 Apr 29 18:57	24°♎30'36	
evening set	10816 Nov 25 21:25	22°♎♎55'09		max. Earth dist.	10822 May 10 05:19	26°♎52'30	6.25384 AU
conjunction	10816 Dec 09 09:13	25°♎♎55'42	0°40'37	conjunction	10822 May 12 14:00	27°♎24'45	-0°29'52
minimum elong	10816 Dec 09 09:12	25°♎♎55'42	0°41'11	minimum elong	10822 May 12 13:59	27°♎24'45	0°30'20
max. Earth dist.	10816 Dec 11 06:54	26°♎♎21'12	6.27250 AU		10822 May 23 23:08	0°♎♎	
morning rise	10816 Dec 22 20:42	28°♎♎55'43		morning rise	10822 May 25 08:38	0°♎♎18'58	
	10816 Dec 27 17:18	0°♎♎		retrograde	10822 Sep 27 17:23	18°♎♎41'32	
retrograde	10817 Apr 25 22:34	16°♎♎46'38		opposition	10822 Nov 27 05:19	13°♎♎47'21	-0°55'08
min. Earth dist.	10817 Jun 24 09:11	11°♎♎53'26	4.35128 AU	min. Earth dist.	10822 Nov 28 17:36	13°♎♎35'35	4.16541 AU
opposition	10817 Jun 25 07:37	11°♎♎46'01	1°02'20	direct	10823 Jan 27 02:17	8°♎♎49'03	
direct	10817 Aug 25 03:14	6°♎♎45'25		evening set	10823 Jun 02 00:04	27°♎♎45'22	
evening set	10817 Dec 28 20:15	24°♎♎24'57			10823 Jun 11 12:39	0°♎♎	
				max. Earth dist.	10823 Jun 13 03:36	0°♎♎23'02	6.07938 AU
conjunction	10818 Jan 11 03:43	27°♎♎17'43	0°41'16				
minimum elong	10818 Jan 11 03:43	27°♎♎17'44	0°41'49	conjunction	10823 Jun 14 21:30	0°♎♎47'48	-0°41'22
max. Earth dist.	10818 Jan 12 00:46	27°♎♎29'08	6.41855 AU	minimum elong	10823 Jun 14 21:29	0°♎♎47'48	0°41'57
	10818 Jan 23 15:45	0°♎♎♎		morning rise	10823 Jun 27 19:23	3°♎♎50'53	
morning rise	10818 Jan 24 09:32	0°♎♎♎09'34		retrograde	10823 Nov 03 16:41	23°♎♎30'25	
	10818 Apr 18 08:27	15°♎♎♎		opposition	10824 Jan 02 14:01	18°♎♎34'16	-1°03'13
retrograde	10818 May 26 01:02	17°♎♎♎08'21		min. Earth dist.	10824 Jan 03 10:26	18°♎♎27'32	4.00146 AU
	10818 Jul 02 17:59	15°♎♎♎♎		direct	10824 Mar 02 00:57	13°♎♎38'08	
opposition	10818 Jul 25 20:09	12°♎♎♎10'59	0°54'03		10824 Jun 22 07:04	0°♎♎♎	
min. Earth dist.	10818 Jul 25 15:37	12°♎♎♎12'27	4.46844 AU	evening set	10824 Jul 06 14:40	3°♎♎25'08	
direct	10818 Sep 25 17:31	7°♎♎♎09'47					
	10818 Dec 12 18:00	15°♎♎♎		conjunction	10824 Jul 19 17:24	6°♎♎36'19	-0°38'31
evening set	10819 Jan 29 00:15	24°♎♎♎21'48		minimum elong	10824 Jul 19 17:25	6°♎♎36'20	0°39'01
				max. Earth dist.	10824 Jul 19 04:39	6°♎♎28'34	5.94149 AU
conjunction	10819 Feb 11 02:51	27°♎♎♎09'36	0°30'34	morning rise	10824 Aug 01 22:04	9°♎♎48'44	
minimum elong	10819 Feb 11 02:52	27°♎♎♎09'37	0°30'56		10824 Aug 23 18:46	15°♎♎	
max. Earth dist.	10819 Feb 10 17:16	27°♎♎♎04'29	6.49887 AU		10824 Nov 24 03:52	0°♎♎♎	
morning rise	10819 Feb 24 03:35	29°♎♎♎56'26		retrograde	10824 Dec 11 09:37	0°♎♎♎29'25	
	10819 Feb 24 10:18	0°♎♎♎♎			10824 Dec 28 15:41	30°♎♎♎♎	
retrograde	10819 Jun 24 16:07	16°♎♎♎31'16		opposition	10825 Feb 08 20:56	25°♎♎♎30'12	-0°46'53

min. Earth dist.	10825 Feb 08 15:18	25° $\Omega$ 32'05	3.90494 AU	evening set	10831 Feb 02 07:36	28° $\approx$ 40'01	
direct	10825 Apr 08 03:06	20° $\Omega$ 35'22			10831 Feb 08 14:02	0° $\mathbb{H}$	
	10825 Jun 27 01:45	0° $\mathbb{H}$					
evening set	10825 Aug 13 05:37	10° $\mathbb{H}$ 48'05		conjunction	10831 Feb 15 09:42	1° $\mathbb{H}$ 27'22	0°28'17
				minimum elong	10831 Feb 15 09:43	1° $\mathbb{H}$ 27'22	0°28'37
conjunction	10825 Aug 26 15:14	14° $\mathbb{H}$ 04'44	-0°20'12	max. Earth dist.	10831 Feb 14 21:33	1° $\mathbb{H}$ 20'53	6.50486 AU
minimum elong	10825 Aug 26 15:15	14° $\mathbb{H}$ 04'45	0°20'25	morning rise	10831 Feb 28 09:38	4° $\mathbb{H}$ 13'42	
max. Earth dist.	10825 Aug 27 17:15	14° $\mathbb{H}$ 20'41	5.89655 AU	retrograde	10831 Jun 28 19:08	20° $\mathbb{H}$ 47'05	
morning rise	10825 Sep 09 03:09	17° $\mathbb{H}$ 22'38		opposition	10831 Aug 28 21:19	15° $\mathbb{H}$ 52'32	0°28'08
	10825 Nov 04 12:05	0° $\underline{\Omega}$		min. Earth dist.	10831 Aug 29 14:42	15° $\mathbb{H}$ 46'57	4.50819 AU
retrograde	10826 Jan 19 03:35	8° $\underline{\Omega}$ 15'35		direct	10831 Oct 30 11:39	10° $\mathbb{H}$ 51'14	
min. Earth dist.	10826 Mar 18 06:37	3° $\underline{\Omega}$ 22'35	3.91779 AU	evening set	10832 Mar 03 11:02	27° $\mathbb{H}$ 58'23	
opposition	10826 Mar 19 10:26	3° $\underline{\Omega}$ 13'08	-0°10'38		10832 Mar 12 21:57	0° $\mathbb{Y}$	
	10826 Apr 14 09:56	30° $\mathbb{R}$ $\mathbb{H}$		max. Earth dist.	10832 Mar 14 19:09	0° $\mathbb{Y}$ 24'20	6.48877 AU
direct	10826 May 16 09:08	28° $\mathbb{H}$ 17'42					
	10826 Jun 17 06:08	0° $\underline{\Omega}$		conjunction	10832 Mar 16 09:05	0° $\mathbb{Y}$ 44'45	0°09'03
asc. node	10826 Jun 29 23:42	1° $\underline{\Omega}$ 32'06		minimum elong	10832 Mar 16 09:05	0° $\mathbb{Y}$ 44'45	0°09'05
evening set	10826 Sep 20 11:53	18° $\underline{\Omega}$ 16'27		behind sun begin	10832 Mar 16 02:18	0° $\mathbb{Y}$ 41'07	
				behind sun end	10832 Mar 16 15:52	0° $\mathbb{Y}$ 48'23	
conjunction	10826 Oct 04 02:17	21° $\underline{\Omega}$ 32'02	0°06'23	morning rise	10832 Mar 29 05:15	3° $\mathbb{Y}$ 30'19	
minimum elong	10826 Oct 04 02:16	21° $\underline{\Omega}$ 32'01	0°06'33	retrograde	10832 Jul 28 02:51	20° $\mathbb{Y}$ 14'41	
behind sun begin	10826 Oct 03 18:25	21° $\underline{\Omega}$ 27'20		desc. node	10832 Aug 26 09:48	18° $\mathbb{Y}$ 56'54	
behind sun end	10826 Oct 04 10:07	21° $\underline{\Omega}$ 36'43		opposition	10832 Sep 27 04:37	15° $\mathbb{Y}$ 21'25	-0°02'40
max. Earth dist.	10826 Oct 06 09:34	22° $\underline{\Omega}$ 05'12	5.96533 AU	min. Earth dist.	10832 Sep 28 14:21	15° $\mathbb{Y}$ 10'39	4.44865 AU
morning rise	10826 Oct 17 18:20	24° $\underline{\Omega}$ 48'16		direct	10832 Nov 28 19:16	10° $\mathbb{Y}$ 20'32	
	10826 Nov 09 01:56	0° $\mathbb{M}$		evening set	10833 Apr 02 18:42	27° $\mathbb{Y}$ 48'41	
retrograde	10827 Feb 24 20:59	14° $\mathbb{M}$ 56'57			10833 Apr 12 17:46	0° $\mathbb{B}$	
min. Earth dist.	10827 Apr 23 18:16	10° $\mathbb{M}$ 06'07	4.03432 AU	max. Earth dist.	10833 Apr 13 07:57	0° $\mathbb{B}$ 07'49	6.38917 AU
opposition	10827 Apr 25 09:12	9° $\mathbb{M}$ 52'55	0°28'43				
direct	10827 Jun 22 20:10	4° $\mathbb{M}$ 55'32		conjunction	10833 Apr 15 14:18	0° $\mathbb{B}$ 37'47	-0°13'00
	10827 Sep 15 22:32	15° $\mathbb{M}$		minimum elong	10833 Apr 15 14:17	0° $\mathbb{B}$ 37'46	0°13'15
evening set	10827 Oct 27 16:31	24° $\mathbb{M}$ 09'07		behind sun begin	10833 Apr 15 09:34	0° $\mathbb{B}$ 35'11	
				behind sun end	10833 Apr 15 19:00	0° $\mathbb{B}$ 40'21	
conjunction	10827 Nov 10 07:03	27° $\mathbb{M}$ 17'41	0°29'31	morning rise	10833 Apr 28 08:33	3° $\mathbb{B}$ 26'27	
minimum elong	10827 Nov 10 07:02	27° $\mathbb{M}$ 17'40	0°29'59		10833 Jun 25 09:59	15° $\mathbb{B}$	
max. Earth dist.	10827 Nov 12 18:22	27° $\mathbb{M}$ 51'57	6.11720 AU	retrograde	10833 Aug 29 02:49	20° $\mathbb{B}$ 52'21	
	10827 Nov 22 00:39	0° $\mathbb{X}$		opposition	10833 Oct 29 00:05	15° $\mathbb{B}$ 59'03	-0°34'09
morning rise	10827 Nov 23 22:22	0° $\mathbb{X}$ 26'12		min. Earth dist.	10833 Oct 30 15:57	15° $\mathbb{B}$ 46'15	4.31446 AU
retrograde	10828 Mar 29 18:47	19° $\mathbb{X}$ 20'34			10833 Nov 05 17:11	15° $\mathbb{R}$ $\mathbb{B}$	
min. Earth dist.	10828 May 27 07:03	14° $\mathbb{X}$ 29'18	4.20516 AU	direct	10833 Dec 29 21:25	10° $\mathbb{B}$ 59'12	
opposition	10828 May 28 18:09	14° $\mathbb{X}$ 17'30	0°55'01		10834 Feb 20 17:16	15° $\mathbb{B}$	
direct	10828 Jul 27 10:02	9° $\mathbb{X}$ 18'02		evening set	10834 May 04 07:01	29° $\mathbb{B}$ 09'15	
evening set	10828 Nov 30 16:16	27° $\mathbb{X}$ 37'26			10834 May 08 00:24	0° $\mathbb{I}$	
	10828 Dec 11 09:15	0° $\mathbb{Z}$		max. Earth dist.	10834 May 14 19:28	1° $\mathbb{I}$ 33'03	6.22983 AU
conjunction	10828 Dec 14 03:44	0° $\mathbb{Z}$ 36'58	0°41'25	conjunction	10834 May 17 02:20	2° $\mathbb{I}$ 04'26	-0°32'07
minimum elong	10828 Dec 14 03:44	0° $\mathbb{Z}$ 36'58	0°42'00	minimum elong	10834 May 17 02:19	2° $\mathbb{I}$ 04'26	0°32'38
max. Earth dist.	10828 Dec 16 00:26	1° $\mathbb{Z}$ 01'49	6.29228 AU	morning rise	10834 May 29 21:04	4° $\mathbb{I}$ 59'44	
morning rise	10828 Dec 27 14:23	3° $\mathbb{Z}$ 35'50		retrograde	10834 Oct 02 18:06	23° $\mathbb{I}$ 32'44	
retrograde	10829 Apr 30 07:05	21° $\mathbb{Z}$ 18'45		opposition	10834 Dec 02 03:27	18° $\mathbb{I}$ 38'24	-0°57'30
opposition	10829 Jun 29 17:28	16° $\mathbb{Z}$ 18'33	1°02'04	min. Earth dist.	10834 Dec 03 15:07	18° $\mathbb{I}$ 26'50	4.14039 AU
min. Earth dist.	10829 Jun 28 20:25	16° $\mathbb{Z}$ 25'29	4.36967 AU	direct	10835 Jan 31 20:10	13° $\mathbb{I}$ 40'25	
direct	10829 Aug 29 16:48	11° $\mathbb{Z}$ 17'50			10835 May 26 01:46	0° $\mathbb{G}$	
evening set	10830 Jan 02 08:36	28° $\mathbb{Z}$ 52'31		evening set	10835 Jun 06 20:07	2° $\mathbb{G}$ 44'43	
	10830 Jan 07 13:59	0° $\approx$		max. Earth dist.	10835 Jun 18 01:35	5° $\mathbb{G}$ 24'25	6.05549 AU
conjunction	10830 Jan 15 15:14	1° $\approx$ 44'24	0°40'18	conjunction	10835 Jun 19 18:01	5° $\mathbb{G}$ 48'27	-0°41'54
minimum elong	10830 Jan 15 15:14	1° $\approx$ 44'24	0°40'49	minimum elong	10835 Jun 19 18:01	5° $\mathbb{G}$ 48'27	0°42'30
max. Earth dist.	10830 Jan 16 07:27	1° $\approx$ 53'10	6.43396 AU	morning rise	10835 Jul 02 16:51	8° $\mathbb{G}$ 52'59	
morning rise	10830 Jan 28 20:29	4° $\approx$ 35'22		retrograde	10835 Nov 08 23:51	28° $\mathbb{G}$ 43'18	
	10830 Mar 22 16:32	15° $\approx$		opposition	10836 Jan 07 20:24	23° $\mathbb{G}$ 46'45	-1°02'25
retrograde	10830 May 30 06:43	21° $\approx$ 28'55		min. Earth dist.	10836 Jan 08 12:53	23° $\mathbb{G}$ 41'18	3.98107 AU
opposition	10830 Jul 30 02:18	16° $\approx$ 31'53	0°51'34	direct	10836 Mar 07 01:43	18° $\mathbb{G}$ 50'51	
min. Earth dist.	10830 Jul 30 00:58	16° $\approx$ 32'19	4.47967 AU		10836 Jun 04 01:36	0° $\Omega$	
	10830 Aug 11 02:07	15° $\mathbb{R}$ $\approx$		evening set	10836 Jul 11 18:59	8° $\Omega$ 44'15	
direct	10830 Sep 30 03:25	11° $\approx$ 30'34					
	10830 Nov 19 03:41	15° $\approx$		conjunction	10836 Jul 24 22:47	11° $\Omega$ 56'38	-0°36'45

minimum elong	10836 Jul 24 22:48	11°♏56'39	0°37'13	morning rise	10842 Feb 02 04:41	8°♊55'08	
max. Earth dist.	10836 Jul 24 16:00	11°♏52'30	5.92676 AU		10842 Mar 03 14:54	15°♊	
	10836 Aug 06 11:34	15°♏		retrograde	10842 Jun 03 08:46	25°♊43'10	
morning rise	10836 Aug 07 04:27	15°♏10'14		opposition	10842 Aug 03 05:59	20°♊46'33	0°48'53
	10836 Oct 14 18:21	0°♐		min. Earth dist.	10842 Aug 03 07:16	20°♊46'07	4.49104 AU
retrograde	10836 Dec 16 23:08	5°♐57'05		direct	10842 Oct 04 09:47	15°♊45'11	
opposition	10837 Feb 14 08:06	0°♐57'24	-0°42'38		10843 Jan 23 19:27	0°♋	
min. Earth dist.	10837 Feb 13 23:46	1°♐00'12	3.89767 AU	evening set	10843 Feb 06 12:42	2°♋52'14	
	10837 Feb 21 11:55	30°♋♏					
direct	10837 Apr 13 12:50	26°♏02'36		conjunction	10843 Feb 19 14:01	5°♋39'08	0°25'54
	10837 Jun 02 01:01	0°♐		minimum elong	10843 Feb 19 14:02	5°♋39'09	0°26'12
evening set	10837 Aug 18 15:16	16°♐16'39		max. Earth dist.	10843 Feb 18 20:13	5°♋29'38	6.50933 AU
				morning rise	10843 Mar 04 13:30	8°♋25'06	
conjunction	10837 Sep 01 01:52	19°♐33'44	-0°16'40	retrograde	10843 Jul 02 23:21	24°♋57'47	
minimum elong	10837 Sep 01 01:53	19°♐33'44	0°16'49	opposition	10843 Sep 02 00:53	20°♋03'29	0°24'07
max. Earth dist.	10837 Sep 02 09:57	19°♐53'21	5.89761 AU	min. Earth dist.	10843 Sep 02 22:02	19°♋56'42	4.50551 AU
morning rise	10837 Sep 14 14:40	22°♐51'58		direct	10843 Nov 03 16:59	15°♋02'08	
	10837 Oct 14 22:31	0°♑			10844 Feb 26 08:05	0°♌	
retrograde	10838 Jan 24 12:23	13°♑42'29		evening set	10844 Mar 07 14:50	2°♌10'46	
opposition	10838 Mar 24 19:17	8°♑39'41	-0°04'45	max. Earth dist.	10844 Mar 18 19:28	4°♌35'10	6.47897 AU
min. Earth dist.	10838 Mar 23 12:26	8°♑50'09	3.92742 AU				
asc. node	10838 May 09 05:27	4°♑00'21		conjunction	10844 Mar 20 12:35	4°♌57'21	0°06'02
direct	10838 May 21 17:19	3°♑44'06		minimum elong	10844 Mar 20 12:35	4°♌57'21	0°06'02
evening set	10838 Sep 25 21:09	23°♑38'19		behind sun begin	10844 Mar 20 04:59	4°♌53'16	
				behind sun end	10844 Mar 20 20:11	5°♌01'25	
conjunction	10838 Oct 09 11:41	26°♑53'11	0°10'08	morning rise	10844 Apr 02 08:19	7°♌43'09	
minimum elong	10838 Oct 09 11:40	26°♑53'10	0°10'20	desc. node	10844 Jul 07 06:13	23°♌33'56	
behind sun begin	10838 Oct 09 05:06	26°♑49'16		retrograde	10844 Aug 01 09:33	24°♌31'51	
behind sun end	10838 Oct 09 18:15	26°♑57'05		opposition	10844 Oct 01 11:48	19°♌38'37	-0°07'12
max. Earth dist.	10838 Oct 11 20:19	27°♑27'00	5.98241 AU	min. Earth dist.	10844 Oct 02 22:27	19°♌27'33	4.43230 AU
	10838 Oct 22 13:26	0°♍		direct	10844 Dec 02 23:41	14°♌37'49	
morning rise	10838 Oct 23 04:05	0°♍08'40			10845 Mar 28 00:17	0°♎	
	10839 Jan 02 10:21	15°♍		evening set	10845 Apr 07 01:43	2°♎11'20	
retrograde	10839 Mar 01 19:44	20°♍07'47		max. Earth dist.	10845 Apr 17 14:04	4°♎30'39	6.36735 AU
min. Earth dist.	10839 Apr 28 18:26	15°♍17'08	4.05695 AU				
opposition	10839 Apr 30 10:10	15°♍03'39	0°33'31	conjunction	10845 Apr 19 21:09	5°♎01'12	-0°15'59
	10839 Apr 30 20:56	15°♋♍		minimum elong	10845 Apr 19 21:09	5°♎01'11	0°16'16
direct	10839 Jun 28 01:04	10°♍05'54		morning rise	10845 May 02 15:18	7°♎50'42	
	10839 Aug 23 21:45	15°♍			10845 Jun 05 09:09	15°♎	
evening set	10839 Nov 01 19:03	29°♍11'27		retrograde	10845 Sep 02 20:18	25°♎25'32	
	10839 Nov 05 07:55	0°♏		opposition	10845 Nov 02 14:49	20°♎32'13	-0°38'08
conjunction	10839 Nov 15 09:26	2°♏18'42	0°31'58	min. Earth dist.	10845 Nov 04 07:59	20°♎19'00	4.28839 AU
minimum elong	10839 Nov 15 09:25	2°♏18'41	0°32'28	direct	10846 Jan 03 09:16	15°♎32'35	
max. Earth dist.	10839 Nov 17 20:52	2°♏52'51	6.14338 AU		10846 Apr 21 16:39	0°♐	
morning rise	10839 Nov 29 00:04	5°♏25'45		evening set	10846 May 08 20:46	3°♐51'02	
retrograde	10840 Apr 03 09:36	24°♏08'29		max. Earth dist.	10846 May 19 09:01	6°♐15'41	6.20156 AU
min. Earth dist.	10840 Jun 01 00:23	19°♏16'57	4.23221 AU				
opposition	10840 Jun 02 09:57	19°♏05'43	0°57'09	conjunction	10846 May 21 16:17	6°♐47'29	-0°34'13
direct	10840 Aug 01 06:57	14°♏06'00		minimum elong	10846 May 21 16:16	6°♐47'28	0°34'44
	10840 Nov 24 22:30	0°♑		morning rise	10846 Jun 03 11:34	9°♐44'09	
evening set	10840 Dec 05 09:54	2°♑17'09		retrograde	10846 Oct 07 20:25	28°♐29'18	
conjunction	10840 Dec 18 20:35	5°♑15'18	0°41'59	opposition	10846 Dec 07 04:05	23°♐34'44	-0°59'32
minimum elong	10840 Dec 18 20:35	5°♑15'18	0°42'36	min. Earth dist.	10846 Dec 08 12:55	23°♐24'03	4.11219 AU
max. Earth dist.	10840 Dec 20 13:23	5°♑37'52	6.31785 AU	direct	10847 Feb 05 14:19	18°♐37'04	
morning rise	10841 Jan 01 06:34	8°♑12'47			10847 May 08 06:39	0°♒	
retrograde	10841 May 04 13:01	25°♑46'12		evening set	10847 Jun 11 18:56	7°♒50'32	
min. Earth dist.	10841 Jul 03 06:59	20°♑52'28	4.39191 AU	max. Earth dist.	10847 Jun 23 06:24	10°♒34'41	6.03008 AU
opposition	10841 Jul 04 01:33	20°♑46'21	1°01'30	conjunction	10847 Jun 24 17:38	10°♒55'45	-0°42'08
direct	10841 Sep 03 04:53	15°♑45'26		minimum elong	10847 Jun 24 17:38	10°♒55'45	0°42'44
	10841 Dec 22 10:24	0°♓		morning rise	10847 Jul 07 17:15	14°♒01'48	
evening set	10842 Jan 06 18:23	3°♓14'17			10847 Sep 23 18:14	0°♓	
conjunction	10842 Jan 20 00:26	6°♓05'12	0°39'10	retrograde	10847 Nov 14 12:45	4°♓03'29	
minimum elong	10842 Jan 20 00:27	6°♓05'12	0°39'40		10848 Jan 06 11:57	30°♓♏	
max. Earth dist.	10842 Jan 20 13:30	6°♓12'15	6.45132 AU	opposition	10848 Jan 13 06:15	29°♓06'34	-1°01'05
				min. Earth dist.	10848 Jan 13 19:57	29°♓02'02	3.96107 AU
				direct	10848 Mar 12 07:37	24°♓11'00	

	10848 May 12 20:25	0°♎	conjunction	10854 Jan 24 08:52	10°♊25'40	0°37'49
evening set	10848 Jul 17 02:35	14°♎10'22	minimum elong	10854 Jan 24 08:52	10°♊25'40	0°38'18
	10848 Jul 20 12:07	15°♎	max. Earth dist.	10854 Jan 24 16:32	10°♊29'47	6.46470 AU
			morning rise	10854 Feb 06 12:31	13°♊14'51	
conjunction	10848 Jul 30 07:26	17°♎23'51 -0°34'39		10854 Feb 14 19:00	15°♊	
minimum elong	10848 Jul 30 07:27	17°♎23'52 0°35'05	retrograde	10854 Jun 07 12:15	29°♊58'57	
max. Earth dist.	10848 Jul 30 06:40	17°♎23'23 5.91434 AU	opposition	10854 Aug 07 10:10	25°♊02'41 0°45'58	
morning rise	10848 Aug 12 14:15	20°♎38'35	min. Earth dist.	10854 Aug 07 14:33	25°♊01'16 4.49804 AU	
	10848 Sep 21 23:02	0°♏	direct	10854 Oct 08 15:52	20°♊01'15	
retrograde	10848 Dec 22 13:24	11°♏29'55		10855 Jan 06 15:20	0°♏	
opposition	10849 Feb 19 21:08	6°♏29'47 -0°37'55	evening set	10855 Feb 10 18:16	7°♏07'19	
min. Earth dist.	10849 Feb 19 08:13	6°♏34'08 3.89465 AU				
direct	10849 Apr 18 22:38	1°♏35'03	conjunction	10855 Feb 23 19:10	9°♏54'01 0°23'23	
evening set	10849 Aug 24 03:04	21°♏48'37	minimum elong	10855 Feb 23 19:11	9°♏54'01 0°23'37	
			max. Earth dist.	10855 Feb 22 22:39	9°♏43'03 6.50952 AU	
conjunction	10849 Sep 06 14:18	25°♏05'44 -0°12'57	morning rise	10855 Mar 08 17:52	12°♏39'44	
minimum elong	10849 Sep 06 14:19	25°♏05'44 0°13'03	retrograde	10855 Jul 07 03:33	29°♏13'08	
behind sun begin	10849 Sep 06 09:19	25°♏02'42	opposition	10855 Sep 06 05:54	24°♏19'04 0°19'55	
behind sun end	10849 Sep 06 19:18	25°♏08'46	min. Earth dist.	10855 Sep 07 04:58	24°♏11'41 4.49897 AU	
max. Earth dist.	10849 Sep 08 02:20	25°♏27'44 5.90406 AU	direct	10855 Nov 07 21:29	19°♏17'47	
morning rise	10849 Sep 20 03:59	28°♏24'00		10856 Feb 09 10:35	0°♐	
	10849 Sep 26 19:17	0°♑	evening set	10856 Mar 11 20:48	6°♐29'03	
retrograde	10850 Jan 29 19:14	19°♑09'28	max. Earth dist.	10856 Mar 22 21:10	8°♐51'39 6.46604 AU	
asc. node	10850 Mar 18 22:43	15°♑36'28				
min. Earth dist.	10850 Mar 28 18:31	14°♑17'39 3.94238 AU	conjunction	10856 Mar 24 18:00	9°♐15'55 0°02'55	
opposition	10850 Mar 30 03:57	14°♑06'17 0°01'11	minimum elong	10856 Mar 24 18:00	9°♐15'55 0°02'53	
direct	10850 May 27 03:26	9°♑10'25	behind sun begin	10856 Mar 24 10:02	9°♐11'38	
evening set	10850 Oct 01 05:42	28°♑58'10	behind sun end	10856 Mar 25 01:58	9°♐20'13	
	10850 Oct 05 14:10	0°♒	morning rise	10856 Apr 06 13:32	12°♐02'06	
			desc. node	10856 May 16 01:50	20°♐06'38	
conjunction	10850 Oct 14 20:33	2°♒12'06 0°13'46	retrograde	10856 Aug 05 21:48	28°♐56'06	
minimum elong	10850 Oct 14 20:33	2°♒12'06 0°14'03	opposition	10856 Oct 05 21:45	24°♐02'57 -0°11'49	
behind sun begin	10850 Oct 14 16:31	2°♒09'43	min. Earth dist.	10856 Oct 07 10:48	23°♐51'06 4.41365 AU	
behind sun end	10850 Oct 15 00:35	2°♒14'29	direct	10856 Dec 07 08:32	19°♐02'13	
max. Earth dist.	10850 Oct 17 08:01	2°♒47'26 6.00418 AU		10857 Mar 10 21:59	0°♓	
morning rise	10850 Oct 28 12:47	5°♒26'29	evening set	10857 Apr 11 11:16	6°♓41'42	
	10850 Dec 10 10:29	15°♒	max. Earth dist.	10857 Apr 21 22:20	9°♓01'02 6.34429 AU	
retrograde	10851 Mar 06 18:58	25°♒14'35				
min. Earth dist.	10851 May 03 18:38	20°♒23'45 4.08277 AU	conjunction	10857 Apr 24 06:41	9°♓32'26 -0°18'57	
opposition	10851 May 05 09:42	20°♒10'31 0°37'58	minimum elong	10857 Apr 24 06:40	9°♓32'25 0°19'18	
direct	10851 Jul 03 05:13	15°♒12'29	morning rise	10857 May 07 00:51	12°♓22'51	
	10851 Oct 19 06:24	0°♓		10857 May 18 22:58	15°♓	
evening set	10851 Nov 06 19:52	4°♓09'19		10857 Aug 29 23:20	0°♐	
			retrograde	10857 Sep 07 14:53	0°♐07'04	
conjunction	10851 Nov 20 09:45	7°♓15'09 0°34'11		10857 Sep 16 06:40	30°♓	
minimum elong	10851 Nov 20 09:44	7°♓15'08 0°34'42	opposition	10857 Nov 07 08:45	25°♓13'37 -0°42'01	
max. Earth dist.	10851 Nov 22 19:28	7°♓48'06 6.17070 AU	min. Earth dist.	10857 Nov 09 00:32	25°♓00'49 4.26259 AU	
morning rise	10851 Dec 03 23:53	10°♓20'44	direct	10858 Jan 07 21:40	20°♓14'15	
retrograde	10852 Apr 07 20:34	28°♓52'02		10858 Apr 03 13:44	0°♐	
opposition	10852 Jun 06 23:42	23°♓49'38 0°58'54	evening set	10858 May 13 13:18	8°♐40'48	
min. Earth dist.	10852 Jun 05 15:20	24°♓00'27 4.25866 AU	max. Earth dist.	10858 May 24 04:40	11°♐08'06 6.17519 AU	
direct	10852 Aug 06 00:13	18°♓49'43				
	10852 Nov 07 11:09	0°♑	conjunction	10858 May 26 09:03	11°♐38'27 -0°36'07	
evening set	10852 Dec 10 01:58	6°♑53'26	minimum elong	10858 May 26 09:02	11°♐38'27 0°36'40	
			morning rise	10858 Jun 08 04:43	14°♐36'24	
conjunction	10852 Dec 23 12:02	9°♑50'22 0°42'19		10858 Aug 25 10:12	0°♑	
minimum elong	10852 Dec 23 12:02	9°♑50'22 0°42'54	retrograde	10858 Oct 13 02:53	3°♑32'57	
max. Earth dist.	10852 Dec 25 00:51	10°♑10'38 6.34152 AU		10858 Dec 01 16:45	30°♓	
morning rise	10853 Jan 05 21:06	12°♑46'31	opposition	10858 Dec 12 07:34	28°♐38'08 -1°01'11	
	10853 Apr 27 18:43	0°♊	min. Earth dist.	10858 Dec 13 14:48	28°♐27'57 4.08758 AU	
retrograde	10853 May 08 19:44	0°♊11'34	direct	10859 Feb 10 13:59	23°♐40'49	
	10853 May 19 18:12	30°♓		10859 Apr 17 02:24	0°♑	
opposition	10853 Jul 08 08:40	25°♑12'15 1°00'37	evening set	10859 Jun 16 19:55	13°♑01'48	
min. Earth dist.	10853 Jul 07 17:28	25°♑17'15 4.41113 AU				
direct	10853 Sep 07 16:37	20°♑11'16	conjunction	10859 Jun 29 19:20	16°♑08'16 -0°42'04	
	10853 Dec 04 21:49	0°♊	minimum elong	10859 Jun 29 19:21	16°♑08'16 0°42'40	
evening set	10854 Jan 11 03:34	7°♊35'32	max. Earth dist.	10859 Jun 28 12:28	15°♑49'44 6.00977 AU	

morning rise	10859 Jul 12 19:52	19°☾15'38		morning rise	10865 Jan 10 07:48	17°☾10'32	
	10859 Aug 29 18:08	0°♌			10865 Mar 18 05:35	0°♍	
retrograde	10859 Nov 20 00:00	9°♌26'03		retrograde	10865 May 12 21:46	4°♍28'53	
opposition	10860 Jan 18 16:34	4°♌28'43	-0°59'15		10865 Jul 08 17:30	30°♋☾	
min. Earth dist.	10860 Jan 19 01:34	4°♌25'44	3.94762 AU	opposition	10865 Jul 12 13:03	29°☾30'02	0°59'28
	10860 Mar 01 08:21	30°♋☾		min. Earth dist.	10865 Jul 11 23:59	29°☾34'19	4.42587 AU
direct	10860 Mar 17 13:05	29°☾33'23		direct	10865 Sep 11 23:15	24°☾29'00	
	10860 Apr 02 18:41	0°♌			10865 Nov 14 17:23	0°♍	
	10860 Jul 03 04:46	15°♌		evening set	10866 Jan 15 10:18	11°♍50'13	
evening set	10860 Jul 22 10:15	19°♌35'58					
				conjunction	10866 Jan 28 15:00	14°♍39'47	0°36'20
conjunction	10860 Aug 04 15:52	22°♌50'07	-0°32'18	minimum elong	10866 Jan 28 15:01	14°♍39'48	0°36'48
minimum elong	10860 Aug 04 15:53	22°♌50'07	0°32'43	max. Earth dist.	10866 Jan 28 18:36	14°♍41'43	6.47354 AU
max. Earth dist.	10860 Aug 04 20:18	22°♌52'49	5.90909 AU		10866 Jan 30 04:39	15°♍	
morning rise	10860 Aug 17 23:46	26°♌05'33		morning rise	10866 Feb 10 17:54	17°♍28'23	
	10860 Sep 03 06:29	0°♎			10866 Apr 18 15:51	0°♋	
retrograde	10860 Dec 27 23:20	16°♎58'07		retrograde	10866 Jun 11 15:08	4°♋10'07	
opposition	10861 Feb 25 08:09	11°♎57'24	-0°33'00		10866 Aug 05 14:46	30°♋♍	
min. Earth dist.	10861 Feb 24 15:28	12°♎03'02	3.89834 AU	opposition	10866 Aug 11 13:00	29°♍14'19	0°42'56
direct	10861 Apr 24 08:54	7°♎02'34		min. Earth dist.	10866 Aug 11 20:35	29°♍11'52	4.50068 AU
evening set	10861 Aug 29 11:52	27°♎12'57		direct	10866 Oct 12 21:03	24°♍12'58	
	10861 Sep 09 22:57	0°♏			10866 Dec 17 21:04	0°♋	
				evening set	10867 Feb 14 22:52	11°♋19'23	
conjunction	10861 Sep 11 23:53	0°♏29'47	-0°09'15				
minimum elong	10861 Sep 11 23:54	0°♏29'47	0°09'18	conjunction	10867 Feb 27 23:09	14°♋06'01	0°20'48
behind sun begin	10861 Sep 11 16:53	0°♏25'33		minimum elong	10867 Feb 27 23:10	14°♋06'01	0°21'01
behind sun end	10861 Sep 12 06:54	0°♏34'02		max. Earth dist.	10867 Feb 26 21:38	13°♋52'22	6.50580 AU
max. Earth dist.	10861 Sep 13 17:44	0°♏55'15	5.91629 AU	morning rise	10867 Mar 12 21:33	16°♋51'45	
morning rise	10861 Sep 25 13:57	3°♏47'38			10867 May 23 12:23	0°♐	
asc. node	10862 Jan 28 07:41	24°♏21'16		retrograde	10867 Jul 11 09:52	3°♐27'10	
retrograde	10862 Feb 03 23:52	24°♏25'45			10867 Aug 29 23:38	30°♋♋	
min. Earth dist.	10862 Apr 02 22:11	19°♏33'58	3.96159 AU	opposition	10867 Sep 10 11:01	28°♋33'19	0°15'42
opposition	10862 Apr 04 08:30	19°♏22'18	0°06'49	min. Earth dist.	10867 Sep 11 12:26	28°♋25'11	4.48933 AU
direct	10862 Jun 01 11:03	14°♏26'09		direct	10867 Nov 12 02:19	23°♋32'06	
	10862 Sep 18 17:26	0°♎			10868 Jan 21 03:41	0°♐	
evening set	10862 Oct 06 10:00	4°♎06'08		evening set	10868 Mar 16 02:16	10°♐46'51	
				desc. node	10868 Mar 24 21:10	12°♐40'52	
conjunction	10862 Oct 20 00:47	7°♎18'55	0°17'09	max. Earth dist.	10868 Mar 27 01:40	13°♐09'23	6.45122 AU
minimum elong	10862 Oct 20 00:47	7°♎18'55	0°17'29				
max. Earth dist.	10862 Oct 22 13:01	7°♎54'29	6.02814 AU	conjunction	10868 Mar 28 23:18	13°♐34'11	-0°00'14
morning rise	10862 Nov 02 16:59	10°♎32'05		minimum elong	10868 Mar 28 23:19	13°♐34'11	0°00'19
	10862 Nov 22 03:15	15°♎		behind sun begin	10868 Mar 28 15:22	13°♐29'53	
	10863 Mar 02 02:56	0°♊		behind sun end	10868 Mar 29 07:17	13°♐38'29	
retrograde	10863 Mar 11 10:35	0°♊08'38		morning rise	10868 Apr 10 18:26	16°♐20'50	
	10863 Mar 20 17:30	30°♋♎			10868 Jun 23 09:51	0°♋	
min. Earth dist.	10863 May 08 12:53	25°♎17'59	4.10901 AU	retrograde	10868 Aug 10 08:10	3°♋20'48	
opposition	10863 May 10 04:07	25°♎04'42	0°41'56		10868 Sep 28 02:07	30°♋♐	
direct	10863 Jul 08 02:39	20°♎06'22		opposition	10868 Oct 10 08:08	28°♐27'42	-0°16'19
	10863 Oct 01 05:49	0°♊		min. Earth dist.	10868 Oct 11 21:22	28°♐15'47	4.39461 AU
evening set	10863 Nov 11 15:58	8°♊54'48		direct	10868 Dec 11 15:29	23°♐27'13	
					10869 Feb 19 07:25	0°♋	
conjunction	10863 Nov 25 05:23	11°♊59'17	0°36'04	evening set	10869 Apr 15 21:03	11°♋12'37	
minimum elong	10863 Nov 25 05:22	11°♊59'16	0°36'37	max. Earth dist.	10869 Apr 26 07:44	13°♋32'28	6.32235 AU
max. Earth dist.	10863 Nov 27 11:39	12°♊30'06	6.19690 AU				
morning rise	10863 Dec 08 18:53	15°♊03'26		conjunction	10869 Apr 28 16:14	14°♋04'08	-0°21'46
	10864 Feb 24 16:51	0°☾		minimum elong	10869 Apr 28 16:13	14°♋04'07	0°22'09
retrograde	10864 Apr 12 06:03	3°☾24'19			10869 May 02 19:56	15°♋	
	10864 May 29 23:14	30°♋♊		morning rise	10869 May 11 10:31	16°♋55'27	
min. Earth dist.	10864 Jun 10 04:31	28°♊32'03	4.28255 AU		10869 Jul 16 15:29	0°♐	
opposition	10864 Jun 11 09:39	28°♊22'20	1°00'14	retrograde	10869 Sep 12 11:42	4°♐48'43	
direct	10864 Aug 10 15:36	23°♊22'15			10869 Nov 11 11:51	30°♋♋	
	10864 Oct 18 22:23	0°☾		opposition	10869 Nov 12 02:53	29°♋55'09	-0°45'36
evening set	10864 Dec 14 13:58	11°☾19'35		min. Earth dist.	10869 Nov 13 18:42	29°♋42'19	4.23902 AU
				direct	10870 Jan 12 12:55	24°♋56'02	
conjunction	10864 Dec 27 23:27	14°☾15'28	0°42'24		10870 Mar 12 19:39	0°♐	
minimum elong	10864 Dec 27 23:27	14°☾15'28	0°42'59	evening set	10870 May 18 05:21	13°♐29'46	
max. Earth dist.	10864 Dec 29 08:43	14°☾33'42	6.36135 AU	max. Earth dist.	10870 May 28 23:14	15°♐59'17	6.15189 AU



conjunction	10870 May 31 01:29	16° $\Pi$ 28'33	-0°37'45	morning rise	10875 Dec 13 14:28	19° $\text{Z}$ 48'37	
minimum elong	10870 May 31 01:28	16° $\Pi$ 28'32	0°38'19		10876 Jan 31 11:36	0° $\text{Z}$	
morning rise	10870 Jun 12 21:34	19° $\Pi$ 27'41		retrograde	10876 Apr 16 14:25	8° $\text{Z}$ 00'18	
	10870 Jul 31 13:39	0° $\text{E}$		opposition	10876 Jun 15 20:35	2° $\text{Z}$ 58'44	1°01'12
retrograde	10870 Oct 18 05:40	8° $\text{E}$ 34'22		min. Earth dist.	10876 Jun 14 16:27	3° $\text{Z}$ 08'05	4.30332 AU
opposition	10870 Dec 17 09:50	3° $\text{E}$ 39'16	-1°02'19		10876 Jul 09 23:08	30° $\text{R}$ 21	
min. Earth dist.	10870 Dec 18 13:56	3° $\text{E}$ 30'05	4.06647 AU	direct	10876 Aug 15 05:45	27° $\text{Z}$ 58'30	
	10871 Jan 17 22:29	30° $\text{R}$ 11			10876 Sep 20 22:07	0° $\text{Z}$	
direct	10871 Feb 15 10:38	28° $\Pi$ 42'18		evening set	10876 Dec 19 03:50	15° $\text{Z}$ 50'25	
	10871 Mar 15 20:23	0° $\text{E}$					
evening set	10871 Jun 21 19:20	18° $\text{E}$ 09'34		conjunction	10877 Jan 01 12:35	18° $\text{Z}$ 45'18	0°42'13
				minimum elong	10877 Jan 01 12:36	18° $\text{Z}$ 45'18	0°42'48
conjunction	10871 Jul 04 19:21	21° $\text{E}$ 17'07	-0°41'40	max. Earth dist.	10877 Jan 02 17:08	19° $\text{Z}$ 00'53	6.37910 AU
minimum elong	10871 Jul 04 19:21	21° $\text{E}$ 17'08	0°42'14	morning rise	10877 Jan 14 20:16	21° $\text{Z}$ 39'23	
max. Earth dist.	10871 Jul 03 16:28	21° $\text{E}$ 00'55	5.99261 AU		10877 Feb 24 12:34	0° $\approx$	
morning rise	10871 Jul 17 20:49	24° $\text{E}$ 25'42		retrograde	10877 May 17 04:03	8° $\approx$ 51'29	
	10871 Aug 10 15:15	0° $\Omega$		opposition	10877 Jul 16 19:29	3° $\approx$ 53'07	0°57'57
retrograde	10871 Nov 25 09:40	14° $\Omega$ 43'55		min. Earth dist.	10877 Jul 16 09:46	3° $\approx$ 56'17	4.43970 AU
opposition	10872 Jan 24 00:42	9° $\Omega$ 46'07	-0°56'54		10877 Aug 20 02:09	30° $\text{R}$ 23	
min. Earth dist.	10872 Jan 24 06:19	9° $\Omega$ 44'15	3.93608 AU	direct	10877 Sep 16 10:20	28° $\text{Z}$ 52'02	
direct	10872 Mar 22 18:28	4° $\Omega$ 50'55			10877 Oct 14 00:34	0° $\approx$	
	10872 Jun 14 12:51	15° $\Omega$			10878 Jan 14 06:25	15° $\approx$	
evening set	10872 Jul 27 15:34	24° $\Omega$ 56'17		evening set	10878 Jan 19 18:50	16° $\approx$ 10'09	
conjunction	10872 Aug 09 22:16	28° $\Omega$ 11'07	-0°29'42	conjunction	10878 Feb 01 22:58	18° $\approx$ 59'09	0°34'37
minimum elong	10872 Aug 09 22:17	28° $\Omega$ 11'08	0°30'03	minimum elong	10878 Feb 01 22:59	18° $\approx$ 59'09	0°35'03
max. Earth dist.	10872 Aug 10 09:14	28° $\Omega$ 17'50	5.90450 AU	max. Earth dist.	10878 Feb 01 23:17	18° $\approx$ 59'18	6.48275 AU
	10872 Aug 17 08:02	0° $\Pi$		morning rise	10878 Feb 15 01:12	21° $\approx$ 47'09	
morning rise	10872 Aug 23 06:59	1° $\Pi$ 27'11			10878 Mar 27 20:59	0° $\text{H}$	
retrograde	10873 Jan 02 08:49	22° $\Pi$ 20'49		retrograde	10878 Jun 15 18:18	8° $\text{H}$ 26'11	
opposition	10873 Mar 02 16:25	17° $\Pi$ 19'41	-0°27'50	opposition	10878 Aug 15 17:49	3° $\text{H}$ 30'40	0°39'37
min. Earth dist.	10873 Mar 01 21:22	17° $\Pi$ 26'07	3.90135 AU	min. Earth dist.	10878 Aug 16 02:49	3° $\text{H}$ 27'46	4.50522 AU
direct	10873 Apr 29 16:06	12° $\Pi$ 24'48			10878 Sep 15 01:59	30° $\text{R}$ 22	
	10873 Aug 24 03:58	0° $\underline{\Omega}$		direct	10878 Oct 17 03:02	28° $\approx$ 29'22	
evening set	10873 Sep 03 19:02	2° $\underline{\Omega}$ 32'48			10878 Nov 18 11:44	0° $\text{H}$	
				evening set	10879 Feb 19 04:40	15° $\text{H}$ 35'04	
conjunction	10873 Sep 17 07:35	5° $\underline{\Omega}$ 49'26	-0°05'31	max. Earth dist.	10879 Mar 03 01:20	18° $\text{H}$ 06'58	6.50565 AU
minimum elong	10873 Sep 17 07:35	5° $\underline{\Omega}$ 49'26	0°05'31				
behind sun begin	10873 Sep 16 23:32	5° $\underline{\Omega}$ 44'34		conjunction	10879 Mar 04 04:26	18° $\text{H}$ 21'29	0°18'05
behind sun end	10873 Sep 17 15:38	5° $\underline{\Omega}$ 54'18		minimum elong	10879 Mar 04 04:27	18° $\text{H}$ 21'29	0°18'15
max. Earth dist.	10873 Sep 19 04:14	6° $\underline{\Omega}$ 16'31	5.92635 AU	morning rise	10879 Mar 17 02:07	21° $\text{H}$ 06'59	
morning rise	10873 Sep 30 22:21	9° $\underline{\Omega}$ 07'03			10879 Apr 30 14:29	0° $\text{Y}$	
asc. node	10873 Dec 08 18:26	23° $\underline{\Omega}$ 50'40		retrograde	10879 Jul 15 15:02	7° $\text{Y}$ 43'03	
retrograde	10874 Feb 09 00:56	29° $\underline{\Omega}$ 38'49		opposition	10879 Sep 14 16:59	2° $\text{Y}$ 49'23	0°11'23
min. Earth dist.	10874 Apr 07 22:29	24° $\underline{\Omega}$ 47'34	3.97762 AU	min. Earth dist.	10879 Sep 15 20:11	2° $\text{Y}$ 40'42	4.48464 AU
opposition	10874 Apr 09 11:00	24° $\underline{\Omega}$ 35'10	0°12'23		10879 Oct 08 04:55	30° $\text{R}$ 11	
direct	10874 Jun 06 14:27	19° $\underline{\Omega}$ 38'42		direct	10879 Nov 16 08:58	27° $\text{H}$ 48'18	
	10874 Aug 31 06:52	0° $\Pi$			10879 Dec 25 14:17	0° $\text{Y}$	
evening set	10874 Oct 11 13:26	9° $\Pi$ 12'37		desc. node	10880 Feb 02 06:41	5° $\text{Y}$ 37'51	
				evening set	10880 Mar 20 07:58	15° $\text{Y}$ 04'34	
conjunction	10874 Oct 25 04:16	12° $\Pi$ 24'27	0°20'25	max. Earth dist.	10880 Mar 31 03:53	17° $\text{Y}$ 25'36	6.44224 AU
minimum elong	10874 Oct 25 04:15	12° $\Pi$ 24'27	0°20'46				
max. Earth dist.	10874 Oct 27 15:59	12° $\Pi$ 59'33	6.04845 AU	conjunction	10880 Apr 02 04:26	17° $\text{Y}$ 52'02	-0°03'20
	10874 Nov 05 05:34	15° $\Pi$		minimum elong	10880 Apr 02 04:25	17° $\text{Y}$ 52'02	0°03'28
morning rise	10874 Nov 07 20:20	15° $\Pi$ 36'35		behind sun begin	10880 Apr 01 20:29	17° $\text{Y}$ 47'44	
	10875 Jan 16 22:34	0° $\text{Z}$		behind sun end	10880 Apr 02 12:20	17° $\text{Y}$ 56'19	
retrograde	10875 Mar 16 04:20	5° $\text{Z}$ 03'20		morning rise	10880 Apr 14 23:20	20° $\text{Y}$ 38'54	
min. Earth dist.	10875 May 13 09:02	0° $\text{Z}$ 12'13	4.13128 AU		10880 May 31 02:46	0° $\text{Z}$	
opposition	10875 May 14 22:38	29° $\Pi$ 59'31	0°45'38	retrograde	10880 Aug 14 18:21	7° $\text{Z}$ 42'49	
	10875 May 14 21:11	30° $\text{R}$ 11		opposition	10880 Oct 14 17:43	2° $\text{Z}$ 49'39	-0°20'39
direct	10875 Jul 13 01:43	25° $\Pi$ 00'52		min. Earth dist.	10880 Oct 16 07:55	2° $\text{Z}$ 37'25	4.38178 AU
	10875 Sep 09 00:34	0° $\text{Z}$			10880 Nov 07 06:03	30° $\text{R}$ 11	
evening set	10875 Nov 16 12:31	13° $\text{Z}$ 42'22		direct	10880 Dec 16 00:00	27° $\text{Y}$ 49'16	
					10881 Jan 23 14:44	0° $\text{Z}$	
conjunction	10875 Nov 30 01:38	16° $\text{Z}$ 45'42	0°37'44		10881 Apr 17 07:42	15° $\text{Z}$	
minimum elong	10875 Nov 30 01:37	16° $\text{Z}$ 45'42	0°38'18	evening set	10881 Apr 20 04:44	15° $\text{Z}$ 38'21	
max. Earth dist.	10875 Dec 02 06:57	17° $\text{Z}$ 15'49	6.21928 AU	max. Earth dist.	10881 Apr 30 16:07	17° $\text{Z}$ 59'04	6.30654 AU

conjunction	10881 May 02 23:57	18°♄30'27	-0°24'22	minimum elong	10886 Oct 30 06:14	17°♎25'13	0°23'47
minimum elong	10881 May 02 23:56	18°♄30'26	0°24'47	max. Earth dist.	10886 Nov 01 19:53	18°♎01'18	6.06386 AU
morning rise	10881 May 15 18:03	21°♄22'21		morning rise	10886 Nov 12 22:10	20°♎36'34	
	10881 Jun 25 09:07	0°♈			10886 Dec 25 17:31	0°♈	
retrograde	10881 Sep 17 02:38	9°♈22'34		retrograde	10887 Mar 20 20:34	9°♈55'20	
opposition	10881 Nov 16 18:06	4°♈28'49	-0°48'43	min. Earth dist.	10887 May 18 02:05	5°♈04'30	4.14934 AU
min. Earth dist.	10881 Nov 18 08:58	4°♈16'17	4.22122 AU	opposition	10887 May 19 15:57	4°♈51'44	0°48'52
	10881 Dec 30 03:55	30°♋			10887 Jul 09 10:42	30°♋	
direct	10882 Jan 17 00:21	29°♋29'58		direct	10887 Jul 17 21:34	29°♋52'53	
	10882 Feb 03 21:40	0°♈			10887 Jul 26 09:44	0°♈	
evening set	10882 May 22 17:50	18°♈08'55		evening set	10887 Nov 21 09:05	18°♈29'02	
max. Earth dist.	10882 Jun 02 12:50	20°♈39'46	6.13336 AU				
				conjunction	10887 Dec 04 21:38	21°♈31'22	0°39'04
conjunction	10882 Jun 04 14:03	21°♈08'32	-0°39'03	minimum elong	10887 Dec 04 21:38	21°♈31'21	0°39'39
minimum elong	10882 Jun 04 14:03	21°♈08'32	0°39'38	max. Earth dist.	10887 Dec 06 23:45	21°♈59'33	6.23841 AU
morning rise	10882 Jun 17 10:40	24°♈08'40		morning rise	10887 Dec 18 10:05	24°♈33'14	
	10882 Jul 13 06:14	0°♈			10888 Jan 12 12:03	0°♈	
retrograde	10882 Oct 23 05:00	13°♈24'05		retrograde	10888 Apr 21 00:55	12°♈36'50	
opposition	10882 Dec 22 07:36	8°♈28'39	-1°02'55	min. Earth dist.	10888 Jun 19 06:03	7°♈44'12	4.32185 AU
min. Earth dist.	10882 Dec 23 10:02	8°♈19'59	4.04857 AU	opposition	10888 Jun 20 07:55	7°♈35'36	1°01'44
direct	10883 Feb 20 05:23	3°♈31'50		direct	10888 Aug 19 21:54	2°♈35'10	
evening set	10883 Jun 26 14:07	23°♈04'35		evening set	10888 Dec 23 17:40	20°♈22'07	
conjunction	10883 Jul 09 15:02	26°♈13'13	-0°40'56	conjunction	10889 Jan 06 01:59	23°♈16'08	0°41'45
minimum elong	10883 Jul 09 15:02	26°♈13'13	0°41'30	minimum elong	10889 Jan 06 01:59	23°♈16'08	0°42'20
max. Earth dist.	10883 Jul 08 16:31	25°♈59'37	5.97712 AU	max. Earth dist.	10889 Jan 07 04:58	23°♈30'49	6.39568 AU
morning rise	10883 Jul 22 17:14	29°♈22'52		morning rise	10889 Jan 19 08:48	26°♈09'15	
	10883 Jul 25 07:08	0°♈			10889 Feb 06 11:44	0°♈	
	10883 Oct 05 02:44	15°♈		retrograde	10889 May 21 08:24	13°♈15'21	
retrograde	10883 Nov 30 14:40	19°♈48'17		opposition	10889 Jul 21 02:19	8°♈17'20	0°56'05
	10884 Jan 27 21:46	15°♋		min. Earth dist.	10889 Jul 20 17:49	8°♈20'06	4.45303 AU
opposition	10884 Jan 29 03:23	14°♈50'08	-0°54'13	direct	10889 Sep 20 19:47	3°♈16'12	
min. Earth dist.	10884 Jan 29 06:54	14°♈48'57	3.92473 AU		10889 Dec 28 09:57	15°♈	
direct	10884 Mar 27 17:27	9°♈55'04		evening set	10890 Jan 24 03:36	20°♈31'06	
	10884 May 23 14:51	15°♈					
evening set	10884 Aug 01 16:29	0°♎03'44		conjunction	10890 Feb 06 06:58	23°♈19'27	0°32'41
	10884 Aug 01 10:21	0°♎		minimum elong	10890 Feb 06 06:59	23°♈19'28	0°33'04
				max. Earth dist.	10890 Feb 06 02:54	23°♈17'17	6.49168 AU
conjunction	10884 Aug 14 23:59	3°♎19'18	-0°26'59	morning rise	10890 Feb 19 08:32	26°♈06'51	
minimum elong	10884 Aug 15 00:01	3°♎19'19	0°27'17		10890 Mar 09 23:17	0°♈	
max. Earth dist.	10884 Aug 15 13:40	3°♎27'41	5.89831 AU	retrograde	10890 Jun 19 23:11	12°♈43'13	
morning rise	10884 Aug 28 09:55	6°♎36'12		opposition	10890 Aug 19 22:56	7°♈48'00	0°36'01
retrograde	10885 Jan 07 12:16	27°♎31'47		min. Earth dist.	10890 Aug 20 11:21	7°♈44'00	4.50891 AU
opposition	10885 Mar 07 19:56	22°♎30'18	-0°22'42	direct	10890 Oct 21 11:26	2°♈46'39	
min. Earth dist.	10885 Mar 06 21:36	22°♎37'51	3.90120 AU	evening set	10891 Feb 23 10:32	19°♈51'51	
direct	10885 May 04 17:44	17°♎35'17		max. Earth dist.	10891 Mar 07 02:48	22°♈21'33	6.50348 AU
	10885 Aug 06 19:58	0°♎					
evening set	10885 Sep 08 22:37	7°♎42'46		conjunction	10891 Mar 08 09:46	22°♈38'08	0°15'13
				minimum elong	10891 Mar 08 09:46	22°♈38'08	0°15'22
conjunction	10885 Sep 22 11:52	10°♎59'26	-0°01'53	behind sun begin	10891 Mar 08 07:25	22°♈36'53	
minimum elong	10885 Sep 22 11:52	10°♎59'26	0°01'49	behind sun end	10891 Mar 08 12:07	22°♈39'23	
behind sun begin	10885 Sep 22 03:29	10°♎54'23		morning rise	10891 Mar 21 06:59	25°♈23'32	
behind sun end	10885 Sep 22 20:15	11°♎04'29			10891 Apr 12 09:51	0°♈	
max. Earth dist.	10885 Sep 24 11:06	11°♎28'02	5.93231 AU	retrograde	10891 Jul 19 20:43	12°♈01'03	
morning rise	10885 Oct 06 03:12	14°♎17'00		opposition	10891 Sep 18 23:34	7°♈07'28	0°06'54
asc. node	10885 Oct 20 07:10	17°♎38'39		min. Earth dist.	10891 Sep 20 04:15	6°♈58'18	4.47658 AU
	10885 Dec 20 05:58	0°♎		direct	10891 Nov 20 14:54	2°♈06'24	
retrograde	10886 Feb 14 01:03	4°♎44'34		desc. node	10891 Dec 12 00:23	2°♈46'53	
	10886 Apr 12 02:15	30°♋		evening set	10892 Mar 24 14:08	19°♈25'21	
min. Earth dist.	10886 Apr 12 22:10	29°♎53'14	3.98880 AU	max. Earth dist.	10892 Apr 04 09:08	21°♈46'18	6.42868 AU
opposition	10886 Apr 14 10:50	29°♎40'45	0°17'36				
direct	10886 Jun 11 16:36	24°♎44'02		conjunction	10892 Apr 06 10:22	22°♈13'12	-0°06'27
	10886 Aug 09 05:34	0°♎		minimum elong	10892 Apr 06 10:22	22°♈13'12	0°06'38
evening set	10886 Oct 16 15:11	14°♎14'01		behind sun begin	10892 Apr 06 02:54	22°♈09'08	
	10886 Oct 19 22:02	15°♎		behind sun end	10892 Apr 06 17:50	22°♈17'15	
				morning rise	10892 Apr 19 04:52	25°♈00'28	
conjunction	10886 Oct 30 06:15	17°♎25'14	0°23'24		10892 May 12 17:12	0°♈	

retrograde	10892 Aug 19 06:08	12° <b>8</b> 10'07		direct	10898 Jun 16 21:39	29° <b>♎</b> 59'39	
opposition	10892 Oct 19 05:14	7° <b>8</b> 16'56	-0°25'02		10898 Jun 18 17:41	0° <b>♍</b>	
min. Earth dist.	10892 Oct 20 20:38	7° <b>8</b> 04'20	4.36331 AU		10898 Oct 02 16:10	15° <b>♍</b>	
direct	10892 Dec 20 09:45	2° <b>8</b> 16'43		evening set	10898 Oct 21 20:16	19° <b>♍</b> 22'28	
	10893 Mar 31 19:21	15° <b>8</b>					
evening set	10893 Apr 24 15:02	20° <b>8</b> 11'30		conjunction	10898 Nov 04 11:01	22° <b>♍</b> 32'28	0°26'21
max. Earth dist.	10893 May 05 00:37	22° <b>8</b> 31'58	6.28438 AU	minimum elong	10898 Nov 04 11:00	22° <b>♍</b> 32'27	0°26'48
				max. Earth dist.	10898 Nov 06 23:37	23° <b>♍</b> 07'44	6.08774 AU
conjunction	10893 May 07 10:03	23° <b>8</b> 04'25	-0°26'58	morning rise	10898 Nov 18 02:47	25° <b>♍</b> 42'34	
minimum elong	10893 May 07 10:02	23° <b>8</b> 04'24	0°27'24		10898 Dec 07 01:13	0° <b>♊</b>	
morning rise	10893 May 20 04:27	25° <b>8</b> 57'18		retrograde	10899 Mar 25 12:53	14° <b>♊</b> 50'01	
	10893 Jun 07 11:06	0° <b>♐</b>		min. Earth dist.	10899 May 22 21:37	9° <b>♊</b> 59'00	4.17560 AU
retrograde	10893 Sep 21 23:18	14° <b>♐</b> 06'58		opposition	10899 May 24 10:34	9° <b>♊</b> 46'33	0°51'52
opposition	10893 Nov 21 13:16	9° <b>♐</b> 13'01	-0°51'45	direct	10899 Jul 22 21:13	4° <b>♊</b> 47'23	
min. Earth dist.	10893 Nov 23 03:21	9° <b>♐</b> 00'41	4.19673 AU	evening set	10899 Nov 26 05:30	23° <b>♊</b> 15'12	
direct	10894 Jan 21 15:54	4° <b>♐</b> 14'19					
evening set	10894 May 27 10:59	23° <b>♐</b> 00'59		conjunction	10899 Dec 09 17:37	26° <b>♊</b> 16'10	0°40'14
max. Earth dist.	10894 Jun 07 09:47	25° <b>♐</b> 34'50	6.10874 AU	minimum elong	10899 Dec 09 17:36	26° <b>♊</b> 16'09	0°40'49
				max. Earth dist.	10899 Dec 11 18:31	26° <b>♊</b> 43'30	6.26492 AU
conjunction	10894 Jun 09 07:50	26° <b>♐</b> 01'53	-0°40'11	morning rise	10899 Dec 23 05:06	29° <b>♊</b> 16'31	
minimum elong	10894 Jun 09 07:50	26° <b>♐</b> 01'53	0°40'47		10899 Dec 26 11:46	0° <b>♑</b>	
morning rise	10894 Jun 22 04:55	29° <b>♐</b> 03'19		retrograde	10900 Apr 26 09:10	17° <b>♑</b> 09'42	
	10894 Jun 26 06:09	0° <b>♑</b>		opposition	10900 Jun 25 18:05	12° <b>♑</b> 08'55	1°01'56
retrograde	10894 Oct 28 11:44	18° <b>♑</b> 29'39		min. Earth dist.	10900 Jun 24 17:58	12° <b>♑</b> 16'54	4.34639 AU
opposition	10894 Dec 27 11:29	13° <b>♑</b> 33'57	-1°03'11	direct	10900 Aug 25 12:38	7° <b>♑</b> 08'20	
min. Earth dist.	10894 Dec 28 11:52	13° <b>♑</b> 25'56	4.02602 AU	evening set	10900 Dec 29 05:56	24° <b>♑</b> 48'34	
direct	10895 Feb 25 04:14	8° <b>♑</b> 37'25					
evening set	10895 Jul 01 15:46	28° <b>♑</b> 17'13		conjunction	10901 Jan 11 13:19	27° <b>♑</b> 41'26	0°41'05
	10895 Jul 08 17:50	0° <b>♒</b>		minimum elong	10901 Jan 11 13:19	27° <b>♑</b> 41'26	0°41'39
				max. Earth dist.	10901 Jan 12 10:42	27° <b>♑</b> 53'02	6.41628 AU
conjunction	10895 Jul 14 17:24	1° <b>♒</b> 27'05	-0°39'53		10901 Jan 22 05:22	0° <b>♓</b>	
minimum elong	10895 Jul 14 17:25	1° <b>♒</b> 27'06	0°40'26	morning rise	10901 Jan 24 19:27	0° <b>♓</b> 33'25	
max. Earth dist.	10895 Jul 13 21:55	1° <b>♒</b> 15'16	5.95876 AU		10901 Apr 15 04:58	15° <b>♓</b>	
morning rise	10895 Jul 27 20:51	4° <b>♒</b> 38'07		retrograde	10901 May 26 12:24	17° <b>♓</b> 32'39	
	10895 Sep 11 09:31	15° <b>♒</b>			10901 Jul 06 20:48	15° <b>♓</b>	
retrograde	10895 Dec 06 00:45	25° <b>♒</b> 11'32		opposition	10901 Jul 26 07:03	12° <b>♓</b> 35'03	0°53'58
opposition	10896 Feb 03 13:18	20° <b>♒</b> 12'54	-0°50'56	min. Earth dist.	10901 Jul 26 02:16	12° <b>♓</b> 36'37	4.46843 AU
min. Earth dist.	10896 Feb 03 12:24	20° <b>♒</b> 13'12	3.91272 AU	direct	10901 Sep 26 04:46	7° <b>♓</b> 33'46	
direct	10896 Apr 01 23:09	15° <b>♒</b> 17'55			10901 Dec 10 21:22	15° <b>♓</b>	
	10896 Jul 15 00:27	0° <b>♓</b>		evening set	10902 Jan 29 09:41	24° <b>♓</b> 45'08	
evening set	10896 Aug 07 00:48	5° <b>♓</b> 29'45					
				conjunction	10902 Feb 11 12:32	27° <b>♓</b> 32'55	0°30'38
conjunction	10896 Aug 20 09:23	8° <b>♓</b> 46'02	-0°23'52	minimum elong	10902 Feb 11 12:33	27° <b>♓</b> 32'56	0°31'00
minimum elong	10896 Aug 20 09:24	8° <b>♓</b> 46'02	0°24'07	max. Earth dist.	10902 Feb 11 05:13	27° <b>♓</b> 29'01	6.50072 AU
max. Earth dist.	10896 Aug 21 05:03	8° <b>♓</b> 58'06	5.89408 AU		10902 Feb 23 00:10	0° <b>♈</b>	
morning rise	10896 Sep 02 20:11	12° <b>♓</b> 03'33		morning rise	10902 Feb 24 13:16	0° <b>♈</b> 19'42	
	10896 Nov 30 10:18	0° <b>♈</b>		retrograde	10902 Jun 25 00:13	16° <b>♈</b> 53'48	
retrograde	10897 Jan 12 23:34	2° <b>♈</b> 59'33		opposition	10902 Aug 25 01:58	11° <b>♈</b> 58'53	0°32'20
	10897 Feb 25 17:41	30° <b>♈</b> 00'		min. Earth dist.	10902 Aug 25 16:24	11° <b>♈</b> 54'15	4.51112 AU
min. Earth dist.	10897 Mar 12 05:27	28° <b>♈</b> 05'55	3.90535 AU	direct	10902 Oct 26 15:03	6° <b>♈</b> 57'32	
opposition	10897 Mar 13 05:55	27° <b>♈</b> 57'37	-0°17'03	evening set	10903 Feb 28 14:20	24° <b>♈</b> 02'56	
direct	10897 May 10 04:21	23° <b>♈</b> 02'27		max. Earth dist.	10903 Mar 12 02:23	26° <b>♈</b> 30'36	6.49857 AU
	10897 Jul 16 15:15	0° <b>♈</b>					
asc. node	10897 Aug 27 23:06	9° <b>♈</b> 00'00		conjunction	10903 Mar 13 12:59	26° <b>♈</b> 49'11	0°12'21
evening set	10897 Sep 14 08:27	13° <b>♈</b> 07'14		minimum elong	10903 Mar 13 12:59	26° <b>♈</b> 49'11	0°12'26
				behind sun begin	10903 Mar 13 07:46	26° <b>♈</b> 46'24	
conjunction	10897 Sep 27 22:18	16° <b>♈</b> 23'34	0°02'05	behind sun end	10903 Mar 13 18:12	26° <b>♈</b> 51'58	
minimum elong	10897 Sep 27 22:20	16° <b>♈</b> 23'35	0°02'13	morning rise	10903 Mar 26 09:43	29° <b>♈</b> 34'35	
behind sun begin	10897 Sep 27 13:56	16° <b>♈</b> 18'33			10903 Mar 28 09:27	0° <b>♉</b>	
behind sun end	10897 Sep 28 06:43	16° <b>♈</b> 28'37		retrograde	10903 Jul 25 03:03	16° <b>♉</b> 14'46	
max. Earth dist.	10897 Sep 30 02:23	16° <b>♈</b> 55'00	5.94452 AU	opposition	10903 Sep 24 05:04	11° <b>♉</b> 21'22	0°02'27
morning rise	10897 Oct 11 14:02	19° <b>♈</b> 40'43		min. Earth dist.	10903 Sep 25 12:58	11° <b>♉</b> 11'11	4.46471 AU
	10897 Nov 26 09:43	0° <b>♉</b>		desc. node	10903 Oct 23 18:03	7° <b>♉</b> 56'14	
retrograde	10898 Feb 19 03:48	10° <b>♉</b> 00'36		direct	10903 Nov 25 21:00	6° <b>♉</b> 20'21	
min. Earth dist.	10898 Apr 17 23:58	5° <b>♉</b> 09'44	4.00783 AU	evening set	10904 Mar 29 19:38	23° <b>♉</b> 43'27	
opposition	10898 Apr 19 14:30	4° <b>♉</b> 56'39	0°22'57	max. Earth dist.	10904 Apr 09 10:35	26° <b>♉</b> 02'49	6.41048 AU
	10898 Jun 15 01:45	30° <b>♉</b>					

conjunction	10904 Apr 11 15:33	26° $\Upsilon$ 31'52	-0°09'30	minimum elong	10909 Oct 04 09:08	21° $\Omega$ 49'23	0°06'07
minimum elong	10904 Apr 11 15:33	26° $\Upsilon$ 31'52	0°09'43	behind sun begin	10909 Oct 04 01:11	21° $\Omega$ 44'38	
behind sun begin	10904 Apr 11 08:59	26° $\Upsilon$ 28'17		behind sun end	10909 Oct 04 17:04	21° $\Omega$ 54'08	
behind sun end	10904 Apr 11 22:07	26° $\Upsilon$ 35'27		max. Earth dist.	10909 Oct 06 15:03	22° $\Omega$ 21'46	5.96205 AU
morning rise	10904 Apr 24 10:01	29° $\Upsilon$ 19'48		morning rise	10909 Oct 18 01:14	25° $\Omega$ 05'47	
	10904 Apr 27 11:49	0° $\mathcal{B}$			10909 Nov 08 01:27	0° $\mathcal{M}$	
	10904 Jul 23 02:21	15° $\mathcal{B}$			10910 Feb 12 14:38	15° $\mathcal{M}$	
retrograde	10904 Aug 24 18:36	16° $\mathcal{B}$ 36'59		retrograde	10910 Feb 25 04:14	15° $\mathcal{M}$ 15'53	
	10904 Sep 26 14:03	15° $\mathcal{R}\mathcal{B}$			10910 Mar 09 17:46	15° $\mathcal{R}\mathcal{M}$	
opposition	10904 Oct 24 16:53	11° $\mathcal{B}$ 43'46	-0°29'18	min. Earth dist.	10910 Apr 24 02:02	10° $\mathcal{M}$ 25'09	4.03118 AU
min. Earth dist.	10904 Oct 26 08:36	11° $\mathcal{B}$ 31'02	4.33984 AU	opposition	10910 Apr 25 17:24	10° $\mathcal{M}$ 11'47	0°28'03
direct	10904 Dec 25 17:48	6° $\mathcal{B}$ 43'41		direct	10910 Jun 23 04:31	5° $\mathcal{M}$ 14'26	
	10905 Mar 14 12:07	15° $\mathcal{B}$			10910 Sep 14 15:59	15° $\mathcal{M}$	
evening set	10905 Apr 30 01:57	24° $\mathcal{B}$ 46'07		evening set	10910 Oct 28 00:03	24° $\mathcal{M}$ 28'44	
max. Earth dist.	10905 May 10 13:07	27° $\mathcal{B}$ 08'18	6.25737 AU				
conjunction	10905 May 12 21:13	27° $\mathcal{B}$ 40'11	-0°29'24	conjunction	10910 Nov 10 14:42	27° $\mathcal{M}$ 37'24	0°29'04
minimum elong	10905 May 12 21:12	27° $\mathcal{B}$ 40'10	0°29'53	minimum elong	10910 Nov 10 14:41	27° $\mathcal{M}$ 37'23	0°29'34
	10905 May 23 03:13	0° $\mathcal{I}$		max. Earth dist.	10910 Nov 13 03:34	28° $\mathcal{M}$ 12'36	6.11461 AU
morning rise	10905 May 25 15:43	0° $\mathcal{I}$ 34'15		morning rise	10910 Nov 20 21:40	0° $\mathcal{J}$	
retrograde	10905 Sep 27 23:18	18° $\mathcal{I}$ 55'22		retrograde	10910 Nov 24 05:49	0° $\mathcal{J}$ 46'00	
opposition	10905 Nov 27 10:27	14° $\mathcal{I}$ 01'19	-0°54'31	retrograde	10911 Mar 31 04:58	19° $\mathcal{J}$ 41'28	
min. Earth dist.	10905 Nov 29 00:05	13° $\mathcal{I}$ 49'09	4.16812 AU	min. Earth dist.	10911 May 28 16:08	14° $\mathcal{J}$ 50'12	4.20316 AU
direct	10906 Jan 27 08:28	9° $\mathcal{I}$ 02'59		opposition	10911 May 30 03:30	14° $\mathcal{J}$ 38'20	0°54'28
evening set	10906 Jun 02 06:37	27° $\mathcal{I}$ 58'58		direct	10911 Jul 28 19:13	9° $\mathcal{J}$ 38'55	
	10906 Jun 10 20:09	0° $\mathcal{E}$		evening set	10911 Dec 02 00:26	27° $\mathcal{J}$ 58'25	
max. Earth dist.	10906 Jun 13 07:21	0° $\mathcal{E}$ 34'59	6.08097 AU		10911 Dec 11 03:32	0° $\mathcal{Z}$	
conjunction	10906 Jun 15 03:53	1° $\mathcal{E}$ 01'19	-0°41'04	conjunction	10911 Dec 15 11:48	0° $\mathcal{Z}$ 57'59	0°41'07
minimum elong	10906 Jun 15 03:53	1° $\mathcal{E}$ 01'19	0°41'40	minimum elong	10911 Dec 15 11:48	0° $\mathcal{Z}$ 57'59	0°41'43
morning rise	10906 Jun 28 01:54	4° $\mathcal{E}$ 04'21		max. Earth dist.	10911 Dec 17 08:34	1° $\mathcal{Z}$ 22'53	6.29083 AU
retrograde	10906 Nov 03 20:17	23° $\mathcal{E}$ 43'03		morning rise	10911 Dec 28 22:41	3° $\mathcal{Z}$ 56'58	
opposition	10907 Jan 02 18:28	18° $\mathcal{E}$ 47'00	-1°02'58	retrograde	10912 Apr 30 16:17	21° $\mathcal{Z}$ 40'28	
min. Earth dist.	10907 Jan 03 14:46	18° $\mathcal{E}$ 40'18	4.00182 AU	min. Earth dist.	10912 Jun 29 05:34	16° $\mathcal{Z}$ 47'13	4.36882 AU
direct	10907 Mar 03 05:11	13° $\mathcal{E}$ 50'48		opposition	10912 Jun 30 03:08	16° $\mathcal{Z}$ 40'05	1°01'47
	10907 Jun 22 14:55	0° $\mathcal{O}$		direct	10912 Aug 30 01:31	11° $\mathcal{Z}$ 39'20	
evening set	10907 Jul 07 20:51	3° $\mathcal{O}$ 38'21		evening set	10913 Jan 02 16:51	29° $\mathcal{Z}$ 13'47	
					10913 Jan 06 06:51	0° $\approx$	
conjunction	10907 Jul 20 23:34	6° $\mathcal{O}$ 49'33	-0°38'29	conjunction	10913 Jan 15 23:43	2° $\approx$ 05'42	0°40'12
minimum elong	10907 Jul 20 23:35	6° $\mathcal{O}$ 49'34	0°39'01	minimum elong	10913 Jan 15 23:43	2° $\approx$ 05'43	0°40'44
max. Earth dist.	10907 Jul 20 10:50	6° $\mathcal{O}$ 41'48	5.94075 AU	max. Earth dist.	10913 Jan 16 17:49	2° $\approx$ 15'29	6.43379 AU
morning rise	10907 Aug 03 03:58	10° $\mathcal{O}$ 01'55		morning rise	10913 Jan 29 04:53	4° $\approx$ 56'40	
	10907 Aug 24 01:41	15° $\mathcal{O}$			10913 Mar 20 23:03	15° $\approx$	
	10907 Nov 21 18:12	0° $\mathcal{P}$		retrograde	10913 May 30 15:50	21° $\approx$ 50'21	
retrograde	10907 Dec 12 16:10	0° $\mathcal{P}$ 42'52		opposition	10913 Jul 30 11:50	16° $\approx$ 53'13	0°51'35
	10908 Jan 02 11:41	30° $\mathcal{R}\mathcal{O}$		min. Earth dist.	10913 Jul 30 09:41	16° $\approx$ 53'54	4.48000 AU
opposition	10908 Feb 10 02:14	25° $\mathcal{O}$ 43'47	-0°47'07		10913 Aug 14 09:52	15° $\mathcal{R}\approx$	
min. Earth dist.	10908 Feb 09 22:08	25° $\mathcal{O}$ 45'09	3.90312 AU	direct	10913 Sep 30 12:13	11° $\approx$ 51'54	
direct	10908 Apr 08 09:56	20° $\mathcal{O}$ 48'58			10913 Nov 16 17:55	15° $\approx$	
	10908 Jun 26 04:21	0° $\mathcal{P}$		evening set	10914 Feb 02 16:07	29° $\approx$ 00'53	
evening set	10908 Aug 13 12:01	11° $\mathcal{P}$ 02'44			10914 Feb 07 07:23	0° $\mathcal{H}$	
conjunction	10908 Aug 26 21:34	14° $\mathcal{P}$ 19'30	-0°20'29	conjunction	10914 Feb 15 18:10	1° $\mathcal{H}$ 48'13	0°28'24
minimum elong	10908 Aug 26 21:35	14° $\mathcal{P}$ 19'31	0°20'43	minimum elong	10914 Feb 15 18:11	1° $\mathcal{H}$ 48'13	0°28'44
max. Earth dist.	10908 Aug 27 23:44	14° $\mathcal{P}$ 35'32	5.89388 AU	max. Earth dist.	10914 Feb 15 05:08	1° $\mathcal{H}$ 41'15	6.50555 AU
morning rise	10908 Sep 09 09:21	17° $\mathcal{P}$ 37'28		morning rise	10914 Feb 28 18:26	4° $\mathcal{H}$ 34'37	
	10908 Nov 03 10:31	0° $\mathcal{U}$		retrograde	10914 Jun 29 05:21	21° $\mathcal{H}$ 07'49	
retrograde	10909 Jan 19 10:26	8° $\mathcal{U}$ 31'31		opposition	10914 Aug 29 06:24	16° $\mathcal{H}$ 13'10	0°28'27
opposition	10909 Mar 19 17:03	3° $\mathcal{U}$ 29'10	-0°11'13	min. Earth dist.	10914 Aug 30 00:32	16° $\mathcal{H}$ 07'21	4.50907 AU
min. Earth dist.	10909 Mar 18 12:56	3° $\mathcal{U}$ 38'42	3.91474 AU	direct	10914 Oct 30 21:22	11° $\mathcal{H}$ 11'45	
	10909 Apr 17 10:10	30° $\mathcal{R}\mathcal{P}$		evening set	10915 Mar 04 19:33	28° $\mathcal{H}$ 18'32	
direct	10909 May 16 14:30	28° $\mathcal{P}$ 33'50			10915 Mar 12 17:05	0° $\mathcal{Y}$	
	10909 Jun 14 19:36	0° $\mathcal{U}$		max. Earth dist.	10915 Mar 16 04:15	0° $\mathcal{Y}$ 44'42	6.48974 AU
asc. node	10909 Jul 06 12:36	2° $\mathcal{U}$ 42'32					
evening set	10909 Sep 20 19:03	18° $\mathcal{U}$ 33'45		conjunction	10915 Mar 17 17:53	1° $\mathcal{Y}$ 04'56	0°09'22
				minimum elong	10915 Mar 17 17:53	1° $\mathcal{Y}$ 04'57	0°09'24
conjunction	10909 Oct 04 09:08	21° $\mathcal{U}$ 49'24	0°05'56	behind sun begin	10915 Mar 17 11:12	1° $\mathcal{Y}$ 01'22	

behind sun end	10915 Mar 18 00:34	1°♈08'31	retrograde	10921 Jan 24 16:18	13°♎54'39	
morning rise	10915 Mar 30 14:09	3°♈50'32	min. Earth dist.	10921 Mar 23 18:08	9°♎02'17	3.92950 AU
retrograde	10915 Jul 29 10:22	20°♈34'31	opposition	10921 Mar 25 00:47	8°♎51'52	-0°05'28
desc. node	10915 Sep 03 04:22	18°♈40'59	asc. node	10921 May 16 17:54	3°♎59'11	
opposition	10915 Sep 28 12:57	15°♈41'11 -0°02'07	direct	10921 May 21 23:33	3°♎56'18	
min. Earth dist.	10915 Sep 29 21:43	15°♈30'43 4.44966 AU	evening set	10921 Sep 26 01:57	23°♎49'39	
direct	10915 Nov 30 02:19	10°♈40'14				
evening set	10916 Apr 03 03:27	28°♈08'13	conjunction	10921 Oct 09 16:25	27°♎04'23	0°09'35
	10916 Apr 11 15:10	0°♈	minimum elong	10921 Oct 09 16:24	27°♎04'23	0°09'48
max. Earth dist.	10916 Apr 13 17:28	0°♈27'43 6.39020 AU	behind sun begin	10921 Oct 09 09:36	27°♎00'20	
			behind sun end	10921 Oct 09 23:13	27°♎08'26	
conjunction	10916 Apr 15 23:10	0°♈57'19 -0°12'35	max. Earth dist.	10921 Oct 12 01:34	27°♎38'32	5.98345 AU
minimum elong	10916 Apr 15 23:09	0°♈57'19 0°12'50		10921 Oct 21 23:08	0°♎	
behind sun begin	10916 Apr 15 18:09	0°♈54'35	morning rise	10921 Oct 23 08:24	0°♎19'42	
behind sun end	10916 Apr 16 04:09	1°♈00'04		10922 Jan 01 11:39	15°♎	
morning rise	10916 Apr 28 17:28	3°♈45'59	retrograde	10922 Mar 02 02:23	20°♎18'57	
	10916 Jun 23 20:25	15°♈	min. Earth dist.	10922 Apr 29 00:58	15°♎28'03	4.05664 AU
retrograde	10916 Aug 29 12:08	21°♈11'24	opposition	10922 Apr 30 15:47	15°♎14'53	0°32'42
opposition	10916 Oct 29 08:05	16°♈18'10 -0°33'31		10922 May 02 11:42	15°♎	
min. Earth dist.	10916 Oct 31 01:03	16°♈05'02 4.31545 AU	direct	10922 Jun 28 07:11	10°♎17'15	
	10916 Nov 08 14:18	15°♎♈		10922 Aug 22 21:48	15°♎	
direct	10916 Dec 30 06:26	11°♈18'18	evening set	10922 Nov 01 23:21	29°♎22'48	
	10917 Feb 18 18:55	15°♈		10922 Nov 04 16:19	0°♎	
evening set	10917 May 04 15:55	29°♈28'21				
	10917 May 06 23:41	0°♎	conjunction	10922 Nov 15 13:34	2°♎30'06	0°31'29
max. Earth dist.	10917 May 15 02:47	1°♎51'15 6.23082 AU	minimum elong	10922 Nov 15 13:33	2°♎30'05	0°32'00
			max. Earth dist.	10922 Nov 18 00:40	3°♎04'03	6.14154 AU
conjunction	10917 May 17 11:16	2°♎23'33 -0°31'43	morning rise	10922 Nov 29 04:19	5°♎37'16	
minimum elong	10917 May 17 11:15	2°♎23'33 0°32'14	retrograde	10923 Apr 04 14:58	24°♎21'25	
morning rise	10917 May 30 06:12	5°♎18'52	min. Earth dist.	10923 Jun 02 06:02	19°♎30'04	4.22920 AU
retrograde	10917 Oct 03 00:58	23°♎51'14	opposition	10923 Jun 03 16:12	19°♎18'37	0°56'36
opposition	10917 Dec 02 10:49	18°♎56'58 -0°57'00	direct	10923 Aug 02 11:19	14°♎19'00	
min. Earth dist.	10917 Dec 03 21:41	18°♎45'39 4.14159 AU		10923 Nov 25 02:02	0°♎	
direct	10918 Feb 01 02:50	13°♎58'57	evening set	10923 Dec 06 15:06	2°♎31'08	
	10918 May 25 02:14	0°♎				
evening set	10918 Jun 07 04:58	3°♎03'19	conjunction	10923 Dec 20 01:55	5°♎29'31	0°41'43
max. Earth dist.	10918 Jun 18 11:36	5°♎43'37 6.05711 AU	minimum elong	10923 Dec 20 01:55	5°♎29'31	0°42'20
			max. Earth dist.	10923 Dec 21 18:47	5°♎52'08	6.31402 AU
conjunction	10918 Jun 20 02:55	6°♎07'00 -0°41'40	morning rise	10924 Jan 02 11:56	8°♎27'12	
minimum elong	10918 Jun 20 02:55	6°♎06'59 0°42'16	retrograde	10924 May 04 22:06	26°♎02'31	
morning rise	10918 Jul 03 01:34	9°♎11'23	opposition	10924 Jul 04 09:06	21°♎02'41	1°01'19
retrograde	10918 Nov 09 08:01	29°♎00'41	min. Earth dist.	10924 Jul 03 14:54	21°♎08'41	4.38757 AU
opposition	10919 Jan 08 03:34	24°♎04'16 -1°02'14	direct	10924 Sep 03 11:58	16°♎01'53	
min. Earth dist.	10919 Jan 08 21:07	23°♎58'29 3.98318 AU		10924 Dec 21 07:15	0°♎	
direct	10919 Mar 08 10:27	19°♎08'24	evening set	10925 Jan 07 01:09	3°♎32'01	
	10919 Jun 04 01:37	0°♎				
evening set	10919 Jul 13 03:00	9°♎01'10	conjunction	10925 Jan 20 07:17	6°♎23'11	0°39'09
			minimum elong	10925 Jan 20 07:17	6°♎23'11	0°39'40
conjunction	10919 Jul 26 06:38	12°♎13'21 -0°36'48	max. Earth dist.	10925 Jan 20 20:03	6°♎30'04	6.44679 AU
minimum elong	10919 Jul 26 06:39	12°♎13'22 0°37'16	morning rise	10925 Feb 02 11:52	9°♎13'25	
max. Earth dist.	10919 Jul 25 23:32	12°♎09'01 5.92934 AU		10925 Mar 02 08:20	15°♎	
	10919 Aug 06 16:03	15°♎	retrograde	10925 Jun 03 18:12	26°♎03'16	
morning rise	10919 Aug 08 12:08	15°♎26'45	opposition	10925 Aug 03 14:44	21°♎06'33	0°49'02
	10919 Oct 14 13:09	0°♎	min. Earth dist.	10925 Aug 03 15:38	21°♎06'15	4.48686 AU
retrograde	10919 Dec 18 05:00	6°♎12'02	direct	10925 Oct 04 16:54	16°♎05'13	
opposition	10920 Feb 15 14:27	1°♎12'28 -0°42'57		10926 Jan 22 10:45	0°♎	
min. Earth dist.	10920 Feb 15 05:33	1°♎15'27 3.90065 AU	evening set	10926 Feb 06 20:55	3°♎13'28	
	10920 Feb 24 16:40	30°♎				
direct	10920 Apr 13 18:54	26°♎17'44	conjunction	10926 Feb 19 22:37	6°♎00'37	0°26'06
	10920 May 31 15:55	0°♎	minimum elong	10926 Feb 19 22:38	6°♎00'37	0°26'24
evening set	10920 Aug 18 21:52	16°♎30'35	max. Earth dist.	10926 Feb 19 06:58	5°♎52'15	6.50595 AU
			morning rise	10926 Mar 04 22:09	8°♎46'47	
conjunction	10920 Sep 01 08:02	19°♎47'21 -0°17'02	retrograde	10926 Jul 03 08:40	25°♎20'37	
minimum elong	10920 Sep 01 08:02	19°♎47'22 0°17'11	opposition	10926 Sep 02 10:20	20°♎26'17	0°24'31
max. Earth dist.	10920 Sep 02 14:20	20°♎05'54 5.90044 AU	min. Earth dist.	10926 Sep 03 06:16	20°♎19'54	4.50323 AU
morning rise	10920 Sep 14 20:39	23°♎05'20	direct	10926 Nov 04 00:47	15°♎25'00	
	10920 Oct 14 05:07	0°♎		10927 Feb 24 20:41	0°♎	

evening set	10927 Mar 09 00:33	2°♈34'18		minimum elong	10932 Sep 06 16:22	25°♏09'22	0°13'34
max. Earth dist.	10927 Mar 20 05:05	4°♈58'44	6.47803 AU	behind sun begin	10932 Sep 06 11:48	25°♏06'36	
				behind sun end	10932 Sep 06 20:57	25°♏12'09	
conjunction	10927 Mar 21 22:18	5°♈20'58	0°06'23	max. Earth dist.	10932 Sep 08 04:24	25°♏31'22	5.90651 AU
minimum elong	10927 Mar 21 22:19	5°♈20'59	0°06'23	morning rise	10932 Sep 20 05:34	28°♏27'20	
behind sun begin	10927 Mar 21 14:47	5°♈16'56			10932 Sep 26 15:24	0°♏	
behind sun end	10927 Mar 22 05:51	5°♈25'01		retrograde	10933 Jan 29 22:06	19°♏12'10	
morning rise	10927 Apr 03 18:21	8°♈06'54		asc. node	10933 Mar 27 20:36	14°♏28'32	
desc. node	10927 Jul 15 06:50	24°♈23'57		min. Earth dist.	10933 Mar 28 22:00	14°♏19'55	3.94241 AU
retrograde	10927 Aug 02 21:02	24°♈55'44		opposition	10933 Mar 30 05:51	14°♏09'06	0°00'15
opposition	10927 Oct 02 21:28	20°♈02'31	-0°06'38	direct	10933 May 27 06:22	9°♏13'16	
min. Earth dist.	10927 Oct 04 08:30	19°♈51'19	4.43283 AU	evening set	10933 Oct 01 07:09	29°♏01'08	
direct	10927 Dec 04 10:01	15°♈01'41			10933 Oct 05 10:29	0°♏	
	10928 Mar 26 14:04	0°♏					
evening set	10928 Apr 07 11:41	2°♏35'03		conjunction	10933 Oct 14 21:45	2°♏15'05	0°13'08
max. Earth dist.	10928 Apr 18 00:35	4°♏54'34	6.36946 AU	minimum elong	10933 Oct 14 21:44	2°♏15'05	0°13'24
				behind sun begin	10933 Oct 14 17:06	2°♏12'20	
conjunction	10928 Apr 20 07:19	5°♏24'54	-0°15'33	behind sun end	10933 Oct 15 02:23	2°♏17'49	
minimum elong	10928 Apr 20 07:18	5°♏24'53	0°15'51	max. Earth dist.	10933 Oct 17 08:01	2°♏49'43	6.00165 AU
behind sun begin	10928 Apr 20 05:44	5°♏24'01		morning rise	10933 Oct 28 13:59	5°♏29'34	
behind sun end	10928 Apr 20 08:52	5°♏25'45			10933 Dec 10 04:39	15°♏	
morning rise	10928 May 03 01:32	8°♏14'21		retrograde	10934 Mar 06 21:03	25°♏19'21	
	10928 Jun 03 20:33	15°♏		min. Earth dist.	10934 May 03 21:15	20°♏28'41	4.07815 AU
retrograde	10928 Sep 03 04:02	25°♏48'03		opposition	10934 May 05 12:47	20°♏15'18	0°37'06
opposition	10928 Nov 02 23:34	20°♏54'42	-0°37'30	direct	10934 Jul 03 06:35	15°♏17'19	
min. Earth dist.	10928 Nov 04 15:17	20°♏41'56	4.29224 AU		10934 Oct 18 21:46	0°♏	
direct	10929 Jan 03 16:58	15°♏55'03		evening set	10934 Nov 06 22:22	4°♏15'49	
	10929 Apr 20 10:41	0°♏					
evening set	10929 May 09 06:06	4°♏12'15		conjunction	10934 Nov 20 12:17	7°♏21'57	0°33'41
max. Earth dist.	10929 May 19 19:40	6°♏37'27	6.20687 AU	minimum elong	10934 Nov 20 12:16	7°♏21'56	0°34'12
				max. Earth dist.	10934 Nov 22 20:58	7°♏54'22	6.16446 AU
conjunction	10929 May 22 01:36	7°♏08'29	-0°33'48	morning rise	10934 Dec 04 02:30	10°♏27'52	
minimum elong	10929 May 22 01:35	7°♏08'28	0°34'21	retrograde	10935 Apr 09 03:46	29°♏02'10	
morning rise	10929 Jun 03 20:48	10°♏04'54		min. Earth dist.	10935 Jun 06 21:46	24°♏10'15	4.25136 AU
retrograde	10929 Oct 08 04:05	28°♏47'31		opposition	10935 Jun 08 05:15	23°♏59'43	0°58'23
opposition	10929 Dec 07 11:03	23°♏52'59	-0°59'01	direct	10935 Aug 07 05:35	18°♏59'52	
min. Earth dist.	10929 Dec 08 20:52	23°♏41'58	4.11858 AU		10935 Nov 07 16:38	0°♏	
direct	10930 Feb 05 23:34	18°♏55'14		evening set	10935 Dec 11 06:51	7°♏05'55	
	10930 May 07 06:37	0°♏					
evening set	10930 Jun 12 02:21	8°♏06'27		conjunction	10935 Dec 24 17:10	10°♏03'15	0°42'04
max. Earth dist.	10930 Jun 23 12:50	10°♏49'46	6.03697 AU	minimum elong	10935 Dec 24 17:09	10°♏03'15	0°42'41
				max. Earth dist.	10935 Dec 26 07:12	10°♏24'13	6.33378 AU
conjunction	10930 Jun 25 00:55	11°♏11'18	-0°41'55	morning rise	10936 Jan 07 02:29	12°♏59'51	
minimum elong	10930 Jun 25 00:55	11°♏11'18	0°42'33		10936 Apr 22 00:18	0°♏	
morning rise	10930 Jul 08 00:23	14°♏16'57		retrograde	10936 May 09 03:00	0°♏27'53	
	10930 Sep 22 13:35	0°♏			10936 May 26 04:46	30°♏	
retrograde	10930 Nov 14 15:35	4°♏15'08		opposition	10936 Jul 08 16:29	25°♏28'30	1°00'29
	10931 Jan 08 04:06	30°♏		min. Earth dist.	10936 Jul 07 23:54	25°♏33'57	4.40380 AU
opposition	10931 Jan 13 10:33	29°♏18'19	-1°00'59	direct	10936 Sep 07 21:51	20°♏27'37	
min. Earth dist.	10931 Jan 13 23:59	29°♏13'52	3.96798 AU		10936 Dec 03 15:32	0°♏	
direct	10931 Mar 13 12:24	24°♏22'40		evening set	10937 Jan 11 11:02	7°♏54'02	
	10931 May 13 00:28	0°♏					
evening set	10931 Jul 18 07:21	14°♏19'32		conjunction	10937 Jan 24 16:34	10°♏44'30	0°37'50
	10931 Jul 21 01:57	15°♏		minimum elong	10937 Jan 24 16:34	10°♏44'30	0°38'20
				max. Earth dist.	10937 Jan 25 01:49	10°♏49'29	6.45866 AU
conjunction	10931 Jul 31 11:46	17°♏32'32	-0°34'48	morning rise	10937 Feb 06 20:23	13°♏34'01	
minimum elong	10931 Jul 31 11:47	17°♏32'33	0°35'15		10937 Feb 13 14:22	15°♏	
max. Earth dist.	10931 Jul 31 09:15	17°♏31'00	5.92046 AU		10937 May 24 05:34	0°♏	
morning rise	10931 Aug 13 18:19	20°♏46'49		retrograde	10937 Jun 07 22:58	0°♏20'12	
	10931 Sep 22 13:07	0°♏			10937 Jun 22 13:58	30°♏	
retrograde	10931 Dec 23 14:03	11°♏35'25		opposition	10937 Aug 07 19:52	25°♏23'56	0°46'10
opposition	10932 Feb 20 23:29	6°♏35'19	-0°38'26	min. Earth dist.	10937 Aug 07 23:30	25°♏22'46	4.49395 AU
min. Earth dist.	10932 Feb 20 11:25	6°♏39'23	3.89912 AU	direct	10937 Oct 09 01:00	20°♏22'42	
direct	10932 Apr 19 02:40	1°♏40'29			10938 Jan 05 01:29	0°♏	
evening set	10932 Aug 24 05:14	21°♏52'29		evening set	10938 Feb 11 03:33	7°♏29'44	
				max. Earth dist.	10938 Feb 23 08:30	10°♏05'52	6.50803 AU
conjunction	10932 Sep 06 16:21	25°♏09'22	-0°13'28				

conjunction	10938 Feb 24 04:32	10° $\text{H}$ 16'34	0°23'37	max. Earth dist.	10943 Aug 05 14:37	22° $\Omega$ 39'58	5.91200 AU
minimum elong	10938 Feb 24 04:33	10° $\text{H}$ 16'34	0°23'52	morning rise	10943 Aug 18 19:19	25° $\Omega$ 53'26	
morning rise	10938 Mar 09 03:38	13° $\text{H}$ 02'28			10943 Sep 04 22:50	0° $\text{H}$	
retrograde	10938 Jul 07 14:33	29° $\text{H}$ 36'12		retrograde	10943 Dec 28 19:31	16° $\text{H}$ 45'30	
opposition	10938 Sep 06 15:55	24° $\text{H}$ 42'06	0°20'24	opposition	10944 Feb 26 03:10	11° $\text{H}$ 45'02	-0°33'51
min. Earth dist.	10938 Sep 07 13:53	24° $\text{H}$ 35'04	4.50055 AU	min. Earth dist.	10944 Feb 25 13:00	11° $\text{H}$ 49'49	3.89635 AU
direct	10938 Nov 08 07:07	19° $\text{H}$ 40'54		direct	10944 Apr 24 03:58	6° $\text{H}$ 50'14	
	10939 Feb 07 21:05	0° $\text{Y}$		evening set	10944 Aug 29 08:03	27° $\text{H}$ 02'28	
evening set	10939 Mar 13 06:16	6° $\text{Y}$ 51'24			10944 Sep 10 11:45	0° $\Omega$	
max. Earth dist.	10939 Mar 24 09:54	9° $\text{Y}$ 15'33	6.47097 AU				
conjunction	10939 Mar 26 03:46	9° $\text{Y}$ 38'11	0°03'21	conjunction	10944 Sep 11 19:48	0° $\Omega$ 19'32	-0°09'58
minimum elong	10939 Mar 26 03:45	9° $\text{Y}$ 38'11	0°03'19	minimum elong	10944 Sep 11 19:49	0° $\Omega$ 19'33	0°10'01
behind sun begin	10939 Mar 25 19:49	9° $\text{Y}$ 33'55		behind sun begin	10944 Sep 11 13:06	0° $\Omega$ 15'28	
behind sun end	10939 Mar 26 11:41	9° $\text{Y}$ 42'27		behind sun end	10944 Sep 12 02:33	0° $\Omega$ 23'38	
morning rise	10939 Apr 07 23:12	12° $\text{Y}$ 24'12		max. Earth dist.	10944 Sep 13 10:04	0° $\Omega$ 42'51	5.90953 AU
desc. node	10939 May 25 15:25	21° $\text{Y}$ 57'09		morning rise	10944 Sep 25 09:57	3° $\Omega$ 37'44	
retrograde	10939 Aug 07 04:41	29° $\text{Y}$ 16'12		retrograde	10945 Feb 03 22:11	24° $\Omega$ 19'43	
opposition	10939 Oct 07 06:04	24° $\text{Y}$ 23'03	-0°11'05	asc. node	10945 Feb 08 08:16	24° $\Omega$ 17'44	
min. Earth dist.	10939 Oct 08 17:22	24° $\text{Y}$ 11'46	4.42187 AU	min. Earth dist.	10945 Apr 02 20:16	19° $\Omega$ 28'04	3.95102 AU
direct	10939 Dec 08 16:29	19° $\text{Y}$ 22'26		opposition	10945 Apr 04 06:28	19° $\Omega$ 16'27	0°05'41
	10940 Mar 09 16:58	0° $\text{B}$		direct	10945 Jun 01 06:58	14° $\Omega$ 20'22	
evening set	10940 Apr 11 19:04	6° $\text{B}$ 59'01			10945 Sep 18 20:07	0° $\text{M}$	
max. Earth dist.	10940 Apr 22 06:53	9° $\text{B}$ 18'27	6.35528 AU	evening set	10945 Oct 06 09:20	4° $\text{M}$ 05'02	
conjunction	10940 Apr 24 14:18	9° $\text{B}$ 49'16	-0°18'23	conjunction	10945 Oct 20 00:12	7° $\text{M}$ 18'29	0°16'25
minimum elong	10940 Apr 24 14:17	9° $\text{B}$ 49'16	0°18'44	minimum elong	10945 Oct 20 00:12	7° $\text{M}$ 18'29	0°16'45
morning rise	10940 May 07 08:29	12° $\text{B}$ 39'15		max. Earth dist.	10945 Oct 22 10:56	7° $\text{M}$ 53'17	6.01500 AU
	10940 May 18 01:05	15° $\text{B}$		morning rise	10945 Nov 02 16:30	10° $\text{M}$ 32'21	
	10940 Aug 24 11:32	0° $\text{II}$			10945 Nov 22 00:42	15° $\text{M}$	
retrograde	10940 Sep 07 19:51	0° $\text{II}$ 19'12		retrograde	10946 Feb 27 10:12	0° $\text{J}$	
	10940 Sep 22 02:03	30° $\text{R}$ $\text{B}$			10946 Mar 11 16:01	0° $\text{J}$ 14'55	
opposition	10940 Nov 07 13:36	25° $\text{B}$ 25'46	-0°41'08		10946 Mar 23 19:42	30° $\text{R}$ $\text{M}$	
min. Earth dist.	10940 Nov 09 05:56	25° $\text{B}$ 12'47	4.27547 AU	min. Earth dist.	10946 May 08 17:09	25° $\text{M}$ 23'57	4.09466 AU
direct	10941 Jan 08 05:10	20° $\text{B}$ 26'20		opposition	10946 May 10 07:34	25° $\text{M}$ 10'56	0°41'03
	10941 Apr 02 23:04	0° $\text{II}$		direct	10946 Jul 08 04:56	20° $\text{M}$ 12'41	
evening set	10941 May 13 17:21	8° $\text{II}$ 48'23			10946 Sep 30 14:45	0° $\text{J}$	
max. Earth dist.	10941 May 24 08:01	11° $\text{II}$ 14'49	6.18884 AU	evening set	10946 Nov 11 19:54	9° $\text{J}$ 06'06	
conjunction	10941 May 26 13:03	11° $\text{II}$ 45'26	-0°35'35	conjunction	10946 Nov 25 09:40	12° $\text{J}$ 11'20	0°35'33
minimum elong	10941 May 26 13:02	11° $\text{II}$ 45'25	0°36'08	minimum elong	10946 Nov 25 09:39	12° $\text{J}$ 11'20	0°36'08
morning rise	10941 Jun 08 08:29	14° $\text{II}$ 42'42		max. Earth dist.	10946 Nov 27 18:26	12° $\text{J}$ 43'39	6.18274 AU
	10941 Aug 25 05:40	0° $\text{E}$		morning rise	10946 Dec 08 23:25	15° $\text{J}$ 16'14	
retrograde	10941 Oct 13 00:03	3° $\text{E}$ 33'33			10947 Feb 22 22:39	0° $\text{B}$	
	10941 Dec 01 18:25	30° $\text{R}$ $\text{II}$		retrograde	10947 Apr 13 13:59	3° $\text{B}$ 42'20	
opposition	10941 Dec 12 07:09	28° $\text{II}$ 38'48	-1°00'30		10947 Jun 02 15:57	30° $\text{R}$ $\text{J}$	
min. Earth dist.	10941 Dec 13 14:42	28° $\text{II}$ 28'31	4.10070 AU	min. Earth dist.	10947 Jun 11 10:34	28° $\text{J}$ 50'36	4.26984 AU
direct	10942 Feb 10 14:41	23° $\text{II}$ 41'21		opposition	10947 Jun 12 17:43	28° $\text{J}$ 40'12	0°59'43
	10942 Apr 17 05:31	0° $\text{E}$		direct	10947 Aug 11 20:49	23° $\text{J}$ 40'12	
evening set	10942 Jun 16 19:37	12° $\text{E}$ 57'58			10947 Oct 18 07:52	0° $\text{B}$	
max. Earth dist.	10942 Jun 28 09:21	15° $\text{E}$ 43'49	6.02078 AU	evening set	10947 Dec 15 22:21	11° $\text{B}$ 41'11	
conjunction	10942 Jun 29 18:38	16° $\text{E}$ 03'46	-0°41'51	conjunction	10947 Dec 29 07:57	14° $\text{B}$ 37'33	0°42'08
minimum elong	10942 Jun 29 18:39	16° $\text{E}$ 03'46	0°42'28	minimum elong	10947 Dec 29 07:57	14° $\text{B}$ 37'33	0°42'43
morning rise	10942 Jul 12 18:52	19° $\text{E}$ 10'30		max. Earth dist.	10947 Dec 30 18:09	14° $\text{B}$ 56'20	6.35104 AU
	10942 Aug 30 06:29	0° $\Omega$		morning rise	10948 Jan 11 16:39	17° $\text{B}$ 33'10	
retrograde	10942 Nov 19 19:08	9° $\Omega$ 16'27			10948 Mar 15 21:57	0° $\approx$	
opposition	10943 Jan 18 12:14	4° $\Omega$ 19'15	-0°59'17	retrograde	10948 May 13 10:20	4° $\approx$ 54'37	
min. Earth dist.	10943 Jan 18 23:26	4° $\Omega$ 15'32	3.95492 AU	min. Earth dist.	10948 Jul 12 10:37	0° $\approx$ 00'04	4.41854 AU
	10943 Feb 27 11:23	30° $\text{R}$ $\text{E}$			10948 Jul 12 10:50	30° $\text{R}$ $\text{B}$	
direct	10943 Mar 18 11:37	29° $\text{E}$ 23'45		opposition	10948 Jul 13 00:15	29° $\text{B}$ 55'36	0°59'16
	10943 Apr 06 09:44	0° $\Omega$		direct	10948 Sep 12 10:33	24° $\text{B}$ 54'35	
	10943 Jul 04 20:24	15° $\Omega$			10948 Nov 12 08:01	0° $\approx$	
evening set	10943 Jul 23 06:23	19° $\Omega$ 24'24		evening set	10949 Jan 15 20:59	12° $\approx$ 17'18	
					10949 Jan 28 12:42	15° $\approx$	
conjunction	10943 Aug 05 11:53	22° $\Omega$ 38'18	-0°32'37	conjunction	10949 Jan 29 01:55	15° $\approx$ 07'05	0°36'17
minimum elong	10943 Aug 05 11:55	22° $\Omega$ 38'19	0°33'02	minimum elong	10949 Jan 29 01:55	15° $\approx$ 07'06	0°36'46

max. Earth dist.	10949 Jan 29 08:11	15° $\approx$ 10'27	6.46966 AU	conjunction	10954 Jul 04 18:07	21° $\mathfrak{D}$ 10'15	-0°41'30
morning rise	10949 Feb 11 05:00	17° $\approx$ 55'53		minimum elong	10954 Jul 04 18:08	21° $\mathfrak{D}$ 10'15	0°42'05
	10949 Apr 15 22:27	0° $\mathfrak{H}$		max. Earth dist.	10954 Jul 03 13:30	20° $\mathfrak{D}$ 53'01	5.99965 AU
retrograde	10949 Jun 12 02:02	4° $\mathfrak{H}$ 38'24		morning rise	10954 Jul 17 19:10	24° $\mathfrak{D}$ 18'19	
	10949 Aug 09 18:18	30° $\mathfrak{R}$ $\approx$			10954 Aug 11 03:28	0° $\mathfrak{Q}$	
opposition	10949 Aug 12 00:57	29° $\approx$ 42'21	0°43'01	retrograde	10954 Nov 25 06:05	14° $\mathfrak{Q}$ 33'44	
min. Earth dist.	10949 Aug 12 06:12	29° $\approx$ 40'40	4.50045 AU	opposition	10955 Jan 23 20:31	9° $\mathfrak{Q}$ 36'09	-0°57'03
direct	10949 Oct 13 07:51	24° $\approx$ 41'01		min. Earth dist.	10955 Jan 24 04:43	9° $\mathfrak{Q}$ 33'25	3.93894 AU
	10949 Dec 15 08:42	0° $\mathfrak{H}$		direct	10955 Mar 23 15:12	4° $\mathfrak{Q}$ 40'51	
evening set	10950 Feb 15 09:57	11° $\mathfrak{H}$ 46'43			10955 Jun 16 05:27	15° $\mathfrak{Q}$	
max. Earth dist.	10950 Feb 27 11:58	14° $\mathfrak{H}$ 21'17	6.50930 AU	evening set	10955 Jul 28 12:50	24° $\mathfrak{Q}$ 46'11	
conjunction	10950 Feb 28 10:23	14° $\mathfrak{H}$ 33'16	0°20'58	conjunction	10955 Aug 10 19:10	28° $\mathfrak{Q}$ 00'59	-0°30'03
minimum elong	10950 Feb 28 10:24	14° $\mathfrak{H}$ 33'16	0°21'11	minimum elong	10955 Aug 10 19:11	28° $\mathfrak{Q}$ 01'00	0°30'25
morning rise	10950 Mar 13 08:46	17° $\mathfrak{H}$ 18'52		max. Earth dist.	10955 Aug 11 01:44	28° $\mathfrak{Q}$ 05'00	5.90273 AU
	10950 May 20 18:33	0° $\mathfrak{Y}$			10955 Aug 18 21:29	0° $\mathfrak{N}$ $\mathfrak{P}$	
retrograde	10950 Jul 11 19:36	3° $\mathfrak{Y}$ 52'41		morning rise	10955 Aug 24 03:51	1° $\mathfrak{N}$ $\mathfrak{P}$ 17'06	
	10950 Sep 02 20:33	30° $\mathfrak{R}$ $\mathfrak{H}$		retrograde	10956 Jan 03 05:22	22° $\mathfrak{N}$ $\mathfrak{P}$ 12'13	
opposition	10950 Sep 10 21:42	28° $\mathfrak{H}$ 58'44	0°16'06	opposition	10956 Mar 02 13:20	17° $\mathfrak{N}$ $\mathfrak{P}$ 11'19	-0°28'42
min. Earth dist.	10950 Sep 11 22:06	28° $\mathfrak{H}$ 50'56	4.49618 AU	min. Earth dist.	10956 Mar 01 19:01	17° $\mathfrak{N}$ $\mathfrak{P}$ 17'30	3.89512 AU
direct	10950 Nov 12 14:01	23° $\mathfrak{H}$ 57'32		direct	10956 Apr 29 12:00	12° $\mathfrak{N}$ $\mathfrak{P}$ 16'26	
	10951 Jan 19 02:26	0° $\mathfrak{Y}$			10956 Aug 24 11:26	0° $\mathfrak{L}$	
evening set	10951 Mar 17 12:03	11° $\mathfrak{Y}$ 09'37		evening set	10956 Sep 03 17:49	2° $\mathfrak{L}$ 27'59	
max. Earth dist.	10951 Mar 28 11:15	13° $\mathfrak{Y}$ 31'47	6.46087 AU	conjunction	10956 Sep 17 06:23	5° $\mathfrak{L}$ 45'06	-0°06'11
conjunction	10951 Mar 30 08:57	13° $\mathfrak{Y}$ 56'33	0°00'11	minimum elong	10956 Sep 17 06:23	5° $\mathfrak{L}$ 45'06	0°06'11
minimum elong	10951 Mar 30 08:57	13° $\mathfrak{Y}$ 56'33	0°00'06	behind sun begin	10956 Sep 16 22:27	5° $\mathfrak{L}$ 40'18	
behind sun begin	10951 Mar 30 01:15	13° $\mathfrak{Y}$ 52'24		behind sun end	10956 Sep 17 14:18	5° $\mathfrak{L}$ 49'53	
behind sun end	10951 Mar 30 16:39	14° $\mathfrak{Y}$ 00'42		max. Earth dist.	10956 Sep 19 01:09	6° $\mathfrak{L}$ 11'06	5.91664 AU
desc. node	10951 Apr 02 16:47	14° $\mathfrak{Y}$ 39'50		morning rise	10956 Sep 30 21:04	9° $\mathfrak{L}$ 03'11	
morning rise	10951 Apr 12 04:13	16° $\mathfrak{Y}$ 42'50		asc. node	10956 Dec 19 00:31	25° $\mathfrak{L}$ 28'28	
	10951 Jun 22 08:18	0° $\mathfrak{B}$		retrograde	10957 Feb 09 04:09	29° $\mathfrak{L}$ 40'00	
retrograde	10951 Aug 11 15:08	3° $\mathfrak{B}$ 39'10		min. Earth dist.	10957 Apr 08 01:17	24° $\mathfrak{L}$ 48'26	3.96557 AU
	10951 Oct 01 21:15	30° $\mathfrak{R}$ $\mathfrak{Y}$		opposition	10957 Apr 09 12:29	24° $\mathfrak{L}$ 36'28	0°11'22
opposition	10951 Oct 11 15:42	28° $\mathfrak{Y}$ 45'58	-0°15'35	direct	10957 Jun 06 15:33	19° $\mathfrak{L}$ 40'09	
min. Earth dist.	10951 Oct 13 04:39	28° $\mathfrak{Y}$ 34'09	4.40640 AU		10957 Aug 31 00:50	0° $\mathfrak{M}$	
direct	10951 Dec 13 00:59	23° $\mathfrak{Y}$ 45'22		evening set	10957 Oct 11 16:03	9° $\mathfrak{M}$ 18'55	
	10952 Feb 18 23:17	0° $\mathfrak{B}$		conjunction	10957 Oct 25 07:07	12° $\mathfrak{M}$ 31'27	0°19'46
evening set	10952 Apr 16 03:36	11° $\mathfrak{B}$ 26'43		minimum elong	10957 Oct 25 07:06	12° $\mathfrak{M}$ 31'26	0°20'08
max. Earth dist.	10952 Apr 26 15:20	13° $\mathfrak{B}$ 46'41	6.33545 AU	max. Earth dist.	10957 Oct 27 20:41	13° $\mathfrak{M}$ 07'44	6.03567 AU
conjunction	10952 Apr 28 22:51	14° $\mathfrak{B}$ 17'41	-0°21'13		10957 Nov 04 19:38	15° $\mathfrak{M}$	
minimum elong	10952 Apr 28 22:50	14° $\mathfrak{B}$ 17'41	0°21'36	morning rise	10957 Nov 07 23:16	15° $\mathfrak{M}$ 44'15	
	10952 May 02 02:35	15° $\mathfrak{B}$			10958 Jan 15 23:09	0° $\mathfrak{X}$	
morning rise	10952 May 11 16:52	17° $\mathfrak{B}$ 08'24		retrograde	10958 Mar 16 11:24	5° $\mathfrak{X}$ 16'19	
	10952 Jul 15 19:15	0° $\mathfrak{I}$		min. Earth dist.	10958 May 13 13:49	0° $\mathfrak{X}$ 25'43	4.11929 AU
retrograde	10952 Sep 12 12:23	4° $\mathfrak{I}$ 56'36		opposition	10958 May 15 05:00	0° $\mathfrak{X}$ 12'29	0°44'52
opposition	10952 Nov 12 05:50	0° $\mathfrak{I}$ 03'01	-0°44'42		10958 May 16 17:59	30° $\mathfrak{R}$ $\mathfrak{M}$	
	10952 Nov 12 15:12	30° $\mathfrak{R}$ $\mathfrak{B}$		direct	10958 Jul 13 05:25	25° $\mathfrak{M}$ 14'01	
min. Earth dist.	10952 Nov 13 21:38	29° $\mathfrak{B}$ 50'12	4.25254 AU		10958 Sep 07 17:35	0° $\mathfrak{X}$	
direct	10953 Jan 12 17:17	25° $\mathfrak{B}$ 03'47		evening set	10958 Nov 16 19:16	13° $\mathfrak{X}$ 59'17	
	10953 Mar 12 07:05	0° $\mathfrak{I}$		conjunction	10958 Nov 30 08:23	17° $\mathfrak{X}$ 03'07	0°37'17
evening set	10953 May 18 08:04	13° $\mathfrak{I}$ 33'00		minimum elong	10958 Nov 30 08:22	17° $\mathfrak{X}$ 03'06	0°37'52
max. Earth dist.	10953 May 28 23:42	16° $\mathfrak{I}$ 00'50	6.16451 AU	max. Earth dist.	10958 Dec 02 14:02	17° $\mathfrak{X}$ 33'29	6.20910 AU
conjunction	10953 May 31 03:53	16° $\mathfrak{I}$ 31'08	-0°37'14	morning rise	10958 Dec 13 21:35	20° $\mathfrak{X}$ 06'34	
minimum elong	10953 May 31 03:52	16° $\mathfrak{I}$ 31'08	0°37'50		10959 Jan 30 01:02	0° $\mathfrak{Z}$	
morning rise	10953 Jun 12 23:53	19° $\mathfrak{I}$ 29'39		retrograde	10959 Apr 18 00:55	8° $\mathfrak{Z}$ 21'47	
	10953 Jul 31 15:41	0° $\mathfrak{D}$		min. Earth dist.	10959 Jun 16 01:36	3° $\mathfrak{Z}$ 29'35	4.29557 AU
retrograde	10953 Oct 18 03:26	8° $\mathfrak{D}$ 31'16		opposition	10959 Jun 17 06:19	3° $\mathfrak{Z}$ 20'01	1°00'45
opposition	10953 Dec 17 08:13	3° $\mathfrak{D}$ 36'11	-1°01'43		10959 Jul 14 20:17	30° $\mathfrak{R}$ $\mathfrak{X}$	
min. Earth dist.	10953 Dec 18 14:08	3° $\mathfrak{D}$ 26'25	4.07679 AU	direct	10959 Aug 16 15:07	28° $\mathfrak{X}$ 19'47	
	10954 Jan 17 07:01	30° $\mathfrak{R}$ $\mathfrak{I}$			10959 Sep 18 17:45	0° $\mathfrak{Z}$	
direct	10954 Feb 15 12:03	28° $\mathfrak{I}$ 38'57		evening set	10959 Dec 20 12:51	16° $\mathfrak{Z}$ 13'27	
	10954 Mar 16 12:32	0° $\mathfrak{D}$		conjunction	10960 Jan 02 21:55	19° $\mathfrak{Z}$ 08'37	0°41'59
evening set	10954 Jun 21 18:11	18° $\mathfrak{D}$ 03'06		minimum elong	10960 Jan 02 21:55	19° $\mathfrak{Z}$ 08'37	0°42'35



max. Earth dist.	10960 Jan 04 05:55	19° $\text{♁}$ 26'07	6.37422 AU	max. Earth dist.	10965 Jun 02 19:13	20° $\text{♁}$ 53'19	6.13584 AU
morning rise	10960 Jan 16 05:37	22° $\text{♁}$ 02'56					
	10960 Feb 23 19:15	0° $\text{♁}$		conjunction	10965 Jun 04 20:33	21° $\text{♁}$ 22'08	-0°38'40
retrograde	10960 May 17 13:35	9° $\text{♁}$ 16'18		minimum elong	10965 Jun 04 20:32	21° $\text{♁}$ 22'07	0°39'17
opposition	10960 Jul 17 06:17	4° $\text{♁}$ 17'44	0°57'47	morning rise	10965 Jun 17 16:59	24° $\text{♁}$ 22'06	
min. Earth dist.	10960 Jul 16 18:21	4° $\text{♁}$ 21'38	4.43753 AU		10965 Jul 12 12:20	0° $\text{♁}$	
	10960 Aug 26 03:05	30° $\text{♁}$		retrograde	10965 Oct 23 10:06	13° $\text{♁}$ 36'15	
direct	10960 Sep 16 19:48	29° $\text{♁}$ 16'40		opposition	10965 Dec 22 11:56	8° $\text{♁}$ 40'58	-1°02'32
	10960 Oct 08 18:21	0° $\text{♁}$		min. Earth dist.	10965 Dec 23 15:38	8° $\text{♁}$ 31'54	4.04987 AU
	10961 Jan 12 17:27	15° $\text{♁}$		direct	10966 Feb 20 10:12	3° $\text{♁}$ 44'05	
evening set	10961 Jan 20 04:35	16° $\text{♁}$ 34'41		evening set	10966 Jun 26 20:10	23° $\text{♁}$ 16'57	
conjunction	10961 Feb 02 08:41	19° $\text{♁}$ 23'40	0°34'36	conjunction	10966 Jul 09 20:49	26° $\text{♁}$ 25'31	-0°40'50
minimum elong	10961 Feb 02 08:42	19° $\text{♁}$ 23'40	0°35'02	minimum elong	10966 Jul 09 20:50	26° $\text{♁}$ 25'32	0°41'24
max. Earth dist.	10961 Feb 02 09:40	19° $\text{♁}$ 24'11	6.48307 AU	max. Earth dist.	10966 Jul 08 19:33	26° $\text{♁}$ 10'15	5.97703 AU
morning rise	10961 Feb 15 11:06	22° $\text{♁}$ 11'41		morning rise	10966 Jul 22 23:05	29° $\text{♁}$ 35'10	
	10961 Mar 26 02:02	0° $\text{♁}$			10966 Jul 24 16:28	0° $\text{♁}$	
retrograde	10961 Jun 16 05:05	8° $\text{♁}$ 50'25			10966 Oct 04 01:14	15° $\text{♁}$	
opposition	10961 Aug 16 04:15	3° $\text{♁}$ 54'45	0°39'45	retrograde	10966 Nov 30 18:02	20° $\text{♁}$ 00'26	
min. Earth dist.	10961 Aug 16 13:25	3° $\text{♁}$ 51'48	4.50742 AU	opposition	10967 Jan 29 07:58	15° $\text{♁}$ 02'21	-0°54'18
	10961 Sep 20 05:34	30° $\text{♁}$		min. Earth dist.	10967 Jan 29 11:21	15° $\text{♁}$ 01'14	3.92329 AU
direct	10961 Oct 17 14:43	28° $\text{♁}$ 53'24			10967 Jan 29 15:02	15° $\text{♁}$	
	10961 Nov 14 04:10	0° $\text{♁}$		direct	10967 Mar 28 21:52	10° $\text{♁}$ 07'14	
evening set	10962 Feb 19 13:51	15° $\text{♁}$ 57'57			10967 May 23 14:08	15° $\text{♁}$	
max. Earth dist.	10962 Mar 03 10:49	18° $\text{♁}$ 29'53	6.50917 AU		10967 Aug 01 18:42	0° $\text{♁}$	
				evening set	10967 Aug 02 22:28	0° $\text{♁}$ 16'55	
conjunction	10962 Mar 04 13:44	18° $\text{♁}$ 44'16	0°18'18	conjunction	10967 Aug 16 05:57	3° $\text{♁}$ 32'34	-0°27'11
minimum elong	10962 Mar 04 13:45	18° $\text{♁}$ 44'17	0°18'28	minimum elong	10967 Aug 16 05:58	3° $\text{♁}$ 32'35	0°27'30
morning rise	10962 Mar 17 11:36	21° $\text{♁}$ 29'42		max. Earth dist.	10967 Aug 16 19:46	3° $\text{♁}$ 41'02	5.89586 AU
	10962 Apr 28 22:37	0° $\text{♁}$		morning rise	10967 Aug 29 15:35	6° $\text{♁}$ 49'28	
retrograde	10962 Jul 15 22:48	8° $\text{♁}$ 04'31		retrograde	10968 Jan 08 19:41	27° $\text{♁}$ 46'10	
opposition	10962 Sep 15 01:44	3° $\text{♁}$ 10'44	0°11'49	min. Earth dist.	10968 Mar 07 04:59	22° $\text{♁}$ 51'52	3.89791 AU
min. Earth dist.	10962 Sep 16 04:08	3° $\text{♁}$ 02'17	4.48901 AU	opposition	10968 Mar 08 02:05	22° $\text{♁}$ 44'44	-0°23'13
	10962 Oct 12 01:47	30° $\text{♁}$		direct	10968 May 05 01:04	17° $\text{♁}$ 49'43	
direct	10962 Nov 16 17:29	28° $\text{♁}$ 09'33			10968 Aug 05 23:01	0° $\text{♁}$	
	10962 Dec 22 12:59	0° $\text{♁}$		evening set	10968 Sep 09 05:22	7° $\text{♁}$ 58'31	
desc. node	10963 Feb 09 09:51	7° $\text{♁}$ 12'24					
evening set	10963 Mar 21 16:14	15° $\text{♁}$ 24'26		conjunction	10968 Sep 22 18:33	11° $\text{♁}$ 15'20	-0°02'18
max. Earth dist.	10963 Apr 01 13:40	17° $\text{♁}$ 46'04	6.44705 AU	minimum elong	10968 Sep 22 18:34	11° $\text{♁}$ 15'20	0°02'13
				behind sun begin	10968 Sep 22 10:11	11° $\text{♁}$ 10'17	
conjunction	10963 Apr 03 12:54	18° $\text{♁}$ 11'46	-0°02'57	behind sun end	10968 Sep 23 02:57	11° $\text{♁}$ 20'23	
minimum elong	10963 Apr 03 12:54	18° $\text{♁}$ 11'46	0°03'05	max. Earth dist.	10968 Sep 24 18:48	11° $\text{♁}$ 44'34	5.92857 AU
behind sun begin	10963 Apr 03 04:57	18° $\text{♁}$ 07'28		morning rise	10968 Oct 06 09:45	14° $\text{♁}$ 33'02	
behind sun end	10963 Apr 03 20:50	18° $\text{♁}$ 16'04		asc. node	10968 Oct 26 22:39	19° $\text{♁}$ 23'35	
morning rise	10963 Apr 16 07:44	20° $\text{♁}$ 58'27			10968 Dec 18 17:52	0° $\text{♁}$	
	10963 May 30 17:35	0° $\text{♁}$		retrograde	10969 Feb 14 08:53	5° $\text{♁}$ 02'06	
retrograde	10963 Aug 16 00:52	8° $\text{♁}$ 00'40		min. Earth dist.	10969 Apr 13 05:06	0° $\text{♁}$ 11'03	3.98515 AU
opposition	10963 Oct 16 00:44	3° $\text{♁}$ 07'31	-0°19'59	opposition	10969 Apr 14 18:36	29° $\text{♁}$ 58'18	0°16'57
min. Earth dist.	10963 Oct 17 15:24	2° $\text{♁}$ 55'10	4.38657 AU		10969 Apr 14 13:37	30° $\text{♁}$	
	10963 Nov 11 11:01	30° $\text{♁}$		direct	10969 Jun 11 22:50	25° $\text{♁}$ 01'40	
direct	10963 Dec 17 08:10	28° $\text{♁}$ 07'06			10969 Aug 07 17:00	0° $\text{♁}$	
	10964 Jan 22 03:03	0° $\text{♁}$		evening set	10969 Oct 16 22:50	14° $\text{♁}$ 32'39	
	10964 Apr 16 09:05	15° $\text{♁}$			10969 Oct 18 21:42	15° $\text{♁}$	
evening set	10964 Apr 20 12:02	15° $\text{♁}$ 54'51					
max. Earth dist.	10964 Apr 30 21:20	18° $\text{♁}$ 14'19	6.31088 AU				
				conjunction	10969 Oct 30 13:37	17° $\text{♁}$ 43'56	0°22'57
conjunction	10964 May 03 07:07	18° $\text{♁}$ 46'46	-0°23'54	minimum elong	10969 Oct 30 13:36	17° $\text{♁}$ 43'55	0°23'22
minimum elong	10964 May 03 07:06	18° $\text{♁}$ 46'45	0°24'19	max. Earth dist.	10969 Nov 02 02:20	18° $\text{♁}$ 19'30	6.06049 AU
morning rise	10964 May 16 01:26	21° $\text{♁}$ 38'33		morning rise	10969 Nov 13 05:39	20° $\text{♁}$ 55'26	
	10964 Jun 24 08:17	0° $\text{♁}$			10969 Dec 24 10:33	0° $\text{♁}$	
retrograde	10964 Sep 17 08:01	9° $\text{♁}$ 37'06		retrograde	10970 Mar 21 05:11	10° $\text{♁}$ 15'35	
opposition	10964 Nov 16 23:31	4° $\text{♁}$ 43'22	-0°48'03	min. Earth dist.	10970 May 18 11:03	5° $\text{♁}$ 24'44	4.14655 AU
min. Earth dist.	10964 Nov 18 14:56	4° $\text{♁}$ 30'39	4.22471 AU	opposition	10970 May 20 01:11	5° $\text{♁}$ 11'51	0°48'17
	10965 Jan 04 10:41	30° $\text{♁}$		direct	10970 Jul 18 06:52	0° $\text{♁}$ 13'00	
direct	10965 Jan 17 07:00	29° $\text{♁}$ 44'21		evening set	10970 Nov 21 17:05	18° $\text{♁}$ 49'30	
	10965 Jan 30 03:09	0° $\text{♁}$					
evening set	10965 May 23 00:07	18° $\text{♁}$ 22'34		conjunction	10970 Dec 05 05:50	21° $\text{♁}$ 51'57	0°38'44

minimum elong	10970 Dec 05 05:49	21° $\text{♊}$ 51'56	0°39'20	opposition	10976 Nov 21 20:36	9° $\text{♊}$ 31'23	-0°51'11
max. Earth dist.	10970 Dec 07 10:09	22° $\text{♊}$ 21'23	6.23646 AU	min. Earth dist.	10976 Nov 23 11:34	9° $\text{♊}$ 18'48	4.19772 AU
morning rise	10970 Dec 18 18:08	24° $\text{♊}$ 53'52		direct	10977 Jan 21 23:48	4° $\text{♊}$ 32'44	
	10971 Jan 11 04:35	0° $\text{♋}$		evening set	10977 May 27 19:42	23° $\text{♊}$ 19'35	
retrograde	10971 Apr 22 10:36	12° $\text{♋}$ 58'15		max. Earth dist.	10977 Jun 07 16:36	25° $\text{♊}$ 52'21	6.10967 AU
opposition	10971 Jun 21 17:45	7° $\text{♋}$ 56'55	1°01'22				
min. Earth dist.	10971 Jun 20 14:54	8° $\text{♋}$ 05'49	4.32072 AU	conjunction	10977 Jun 09 16:27	26° $\text{♊}$ 20'28	-0°39'53
direct	10971 Aug 21 07:04	2° $\text{♋}$ 56'31		minimum elong	10977 Jun 09 16:26	26° $\text{♊}$ 20'27	0°40'29
evening set	10971 Dec 25 02:15	20° $\text{♋}$ 43'17		morning rise	10977 Jun 22 13:42	29° $\text{♊}$ 21'55	
					10977 Jun 25 06:59	0° $\text{♌}$	
conjunction	10972 Jan 07 10:26	23° $\text{♋}$ 37'18	0°41'35	retrograde	10977 Oct 28 18:14	18° $\text{♌}$ 47'38	
minimum elong	10972 Jan 07 10:26	23° $\text{♋}$ 37'18	0°42'11	opposition	10977 Dec 27 18:27	13° $\text{♌}$ 52'02	-1°02'53
max. Earth dist.	10972 Jan 08 12:44	23° $\text{♋}$ 51'37	6.39523 AU	min. Earth dist.	10977 Dec 28 18:11	13° $\text{♌}$ 44'15	4.02710 AU
morning rise	10972 Jan 20 17:30	26° $\text{♋}$ 30'28		direct	10978 Feb 25 11:02	8° $\text{♌}$ 55'31	
	10972 Feb 06 03:31	0° $\text{♍}$		evening set	10978 Jul 02 00:09	28° $\text{♌}$ 35'24	
retrograde	10972 May 21 18:43	13° $\text{♍}$ 36'49			10978 Jul 07 20:19	0° $\text{♎}$	
opposition	10972 Jul 21 12:08	8° $\text{♍}$ 38'40	0°56'00	max. Earth dist.	10978 Jul 14 07:25	1° $\text{♎}$ 34'02	5.96024 AU
min. Earth dist.	10972 Jul 21 03:57	8° $\text{♍}$ 41'20	4.45322 AU				
direct	10972 Sep 21 05:53	3° $\text{♍}$ 37'28		conjunction	10978 Jul 15 01:48	1° $\text{♎}$ 45'11	-0°39'50
	10972 Dec 26 23:58	15° $\text{♍}$		minimum elong	10978 Jul 15 01:48	1° $\text{♎}$ 45'11	0°40'24
evening set	10973 Jan 24 12:03	20° $\text{♍}$ 51'55		morning rise	10978 Jul 28 04:55	4° $\text{♎}$ 56'03	
					10978 Sep 10 07:20	15° $\text{♎}$	
conjunction	10973 Feb 06 15:40	23° $\text{♍}$ 40'19	0°32'44	retrograde	10978 Dec 06 08:28	25° $\text{♎}$ 28'33	
minimum elong	10973 Feb 06 15:41	23° $\text{♍}$ 40'19	0°33'08	opposition	10979 Feb 03 20:14	20° $\text{♎}$ 30'02	-0°51'05
max. Earth dist.	10973 Feb 06 13:24	23° $\text{♍}$ 39'06	6.49243 AU	min. Earth dist.	10979 Feb 03 20:24	20° $\text{♎}$ 29'59	3.91457 AU
morning rise	10973 Feb 19 17:14	26° $\text{♍}$ 27'42		direct	10979 Apr 03 07:38	15° $\text{♎}$ 35'08	
	10973 Mar 08 15:25	0° $\text{♏}$			10979 Jul 15 03:01	0° $\text{♐}$	
retrograde	10973 Jun 20 07:05	13° $\text{♏}$ 03'56		evening set	10979 Aug 08 08:10	5° $\text{♐}$ 46'16	
opposition	10973 Aug 20 08:08	8° $\text{♏}$ 08'36	0°36'14				
min. Earth dist.	10973 Aug 20 19:21	8° $\text{♏}$ 04'59	4.51011 AU	conjunction	10979 Aug 21 16:32	9° $\text{♐}$ 02'21	-0°24'07
direct	10973 Oct 21 19:20	3° $\text{♏}$ 07'14		minimum elong	10979 Aug 21 16:33	9° $\text{♐}$ 02'21	0°24'23
evening set	10974 Feb 23 19:05	20° $\text{♏}$ 11'56		max. Earth dist.	10979 Aug 22 12:21	9° $\text{♐}$ 14'29	5.89614 AU
max. Earth dist.	10974 Mar 07 11:38	22° $\text{♏}$ 41'44	6.50497 AU	morning rise	10979 Sep 04 03:08	12° $\text{♐}$ 19'40	
					10979 Nov 29 18:23	0° $\text{♑}$	
conjunction	10974 Mar 08 18:22	22° $\text{♏}$ 58'11	0°15'29	retrograde	10980 Jan 14 05:22	3° $\text{♑}$ 14'32	
minimum elong	10974 Mar 08 18:23	22° $\text{♏}$ 58'12	0°15'37		10980 Feb 29 00:13	30° $\text{♑}$	
behind sun begin	10974 Mar 08 16:33	22° $\text{♏}$ 57'13		min. Earth dist.	10980 Mar 12 11:18	28° $\text{♑}$ 21'08	3.90741 AU
behind sun end	10974 Mar 08 20:13	22° $\text{♏}$ 59'10		opposition	10980 Mar 13 12:13	28° $\text{♑}$ 12'42	-0°17'39
morning rise	10974 Mar 21 15:46	25° $\text{♏}$ 43'36		direct	10980 May 10 10:07	23° $\text{♑}$ 17'35	
	10974 Apr 11 03:11	0° $\text{♒}$			10980 Jul 15 13:37	0° $\text{♒}$	
retrograde	10974 Jul 20 06:04	12° $\text{♒}$ 20'41		asc. node	10980 Sep 04 12:30	10° $\text{♒}$ 57'14	
opposition	10974 Sep 19 08:07	7° $\text{♒}$ 27'06	0°07'23	evening set	10980 Sep 14 14:31	13° $\text{♒}$ 21'28	
min. Earth dist.	10974 Sep 20 13:42	7° $\text{♒}$ 17'38	4.47811 AU				
direct	10974 Nov 21 00:41	2° $\text{♒}$ 25'58		conjunction	10980 Sep 28 04:00	16° $\text{♒}$ 37'36	0°01'35
desc. node	10974 Dec 18 21:12	3° $\text{♒}$ 34'12		minimum elong	10980 Sep 28 03:59	16° $\text{♒}$ 37'36	0°01'43
evening set	10975 Mar 25 22:42	19° $\text{♒}$ 44'37		behind sun begin	10980 Sep 27 19:36	16° $\text{♒}$ 32'33	
max. Earth dist.	10975 Apr 05 16:14	22° $\text{♒}$ 04'44	6.43006 AU	behind sun end	10980 Sep 28 12:22	16° $\text{♒}$ 42'38	
				max. Earth dist.	10980 Sep 30 06:10	17° $\text{♒}$ 07'52	5.94600 AU
conjunction	10975 Apr 07 19:00	22° $\text{♒}$ 32'27	-0°06'03	morning rise	10980 Oct 11 19:36	19° $\text{♒}$ 54'35	
minimum elong	10975 Apr 07 19:01	22° $\text{♒}$ 32'27	0°06'15		10980 Nov 25 12:20	0° $\text{♓}$	
behind sun begin	10975 Apr 07 11:27	22° $\text{♒}$ 28'21		retrograde	10981 Feb 19 08:26	10° $\text{♓}$ 14'07	
behind sun end	10975 Apr 08 02:34	22° $\text{♒}$ 36'33		min. Earth dist.	10981 Apr 18 06:18	5° $\text{♓}$ 23'10	4.00830 AU
morning rise	10975 Apr 20 13:46	25° $\text{♒}$ 19'45		opposition	10981 Apr 19 20:34	5° $\text{♓}$ 10'10	0°22'09
	10975 May 12 12:51	0° $\text{♈}$		direct	10981 Jun 17 04:25	0° $\text{♓}$ 13'12	
retrograde	10975 Aug 20 13:43	12° $\text{♈}$ 28'54			10981 Oct 01 21:36	15° $\text{♓}$	
opposition	10975 Oct 20 13:00	7° $\text{♈}$ 35'44	-0°24'25	evening set	10981 Oct 22 01:09	19° $\text{♓}$ 35'40	
min. Earth dist.	10975 Oct 22 03:58	7° $\text{♈}$ 23'15	4.36452 AU				
direct	10975 Dec 21 17:06	2° $\text{♈}$ 35'26		conjunction	10981 Nov 04 15:57	22° $\text{♓}$ 45'40	0°25'50
	10976 Mar 30 15:57	15° $\text{♈}$		minimum elong	10981 Nov 04 15:56	22° $\text{♓}$ 45'39	0°26'18
evening set	10976 Apr 24 23:34	20° $\text{♈}$ 30'14		max. Earth dist.	10981 Nov 07 05:14	23° $\text{♓}$ 21'21	6.08713 AU
max. Earth dist.	10976 May 05 10:23	22° $\text{♈}$ 51'19	6.28544 AU	morning rise	10981 Nov 18 07:26	25° $\text{♓}$ 55'43	
					10981 Dec 06 06:05	0° $\text{♉}$	
conjunction	10976 May 07 18:49	23° $\text{♈}$ 23'11	-0°26'32	retrograde	10982 Mar 25 20:24	15° $\text{♉}$ 04'01	
minimum elong	10976 May 07 18:48	23° $\text{♈}$ 23'10	0°26'59	min. Earth dist.	10982 May 23 04:31	10° $\text{♉}$ 12'56	4.17387 AU
morning rise	10976 May 20 13:08	26° $\text{♈}$ 16'02		opposition	10982 May 24 17:11	10° $\text{♉}$ 00'36	0°51'13
	10976 Jun 06 09:26	0° $\text{♊}$		direct	10982 Jul 23 03:37	5° $\text{♉}$ 01'32	
retrograde	10976 Sep 22 07:27	14° $\text{♊}$ 25'11		evening set	10982 Nov 26 10:49	23° $\text{♉}$ 29'46	

conjunction	10982 Dec 09 22:52	26° $\text{♊}$ 30'51	0°39'53	conjunction	10988 May 12 06:57	28° $\text{♋}$ 02'05	-0°28'59
minimum elong	10982 Dec 09 22:51	26° $\text{♊}$ 30'51	0°40'29	minimum elong	10988 May 12 06:56	28° $\text{♋}$ 02'05	0°29'29
max. Earth dist.	10982 Dec 11 22:57	26° $\text{♊}$ 57'45	6.26207 AU		10988 May 20 22:37	0° $\text{♌}$	
morning rise	10982 Dec 23 10:37	29° $\text{♊}$ 31'26		morning rise	10988 May 25 01:37	0° $\text{♌}$ 56'02	
	10982 Dec 25 14:13	0° $\text{♋}$		retrograde	10988 Sep 27 06:03	19° $\text{♌}$ 15'12	
retrograde	10983 Apr 26 16:38	17° $\text{♋}$ 26'11		opposition	10988 Nov 26 18:17	14° $\text{♌}$ 21'07	-0°53'57
min. Earth dist.	10983 Jun 25 01:17	12° $\text{♋}$ 33'20	4.34283 AU	min. Earth dist.	10988 Nov 28 06:46	14° $\text{♌}$ 09'18	4.17340 AU
opposition	10983 Jun 26 01:32	12° $\text{♋}$ 25'18	1°01'38	direct	10989 Jan 26 16:07	9° $\text{♌}$ 22'42	
direct	10983 Aug 25 18:37	7° $\text{♋}$ 24'45		evening set	10989 Jun 01 15:00	28° $\text{♌}$ 16'53	
evening set	10983 Dec 29 12:22	25° $\text{♋}$ 06'00			10989 Jun 08 22:33	0° $\text{♍}$	
				max. Earth dist.	10989 Jun 12 17:05	0° $\text{♍}$ 53'25	6.08720 AU
conjunction	10984 Jan 11 20:04	27° $\text{♋}$ 59'07	0°40'59	conjunction	10989 Jun 14 12:17	1° $\text{♍}$ 18'56	-0°40'46
minimum elong	10984 Jan 11 20:05	27° $\text{♋}$ 59'07	0°41'34	minimum elong	10989 Jun 14 12:17	1° $\text{♍}$ 18'56	0°41'23
max. Earth dist.	10984 Jan 12 18:54	28° $\text{♋}$ 11'30	6.41243 AU	morning rise	10989 Jun 27 10:01	4° $\text{♍}$ 21'36	
	10984 Jan 21 03:05	0° $\text{♎}$		retrograde	10989 Nov 03 02:15	23° $\text{♍}$ 57'14	
morning rise	10984 Jan 25 02:13	0° $\text{♎}$ 51'18		opposition	10990 Jan 02 00:07	19° $\text{♍}$ 01'15	-1°02'42
	10984 Apr 11 21:03	15° $\text{♎}$		min. Earth dist.	10990 Jan 02 21:43	18° $\text{♍}$ 54'08	4.00844 AU
retrograde	10984 May 25 21:20	17° $\text{♎}$ 52'08		direct	10990 Mar 02 13:06	14° $\text{♍}$ 04'59	
	10984 Jul 09 01:13	15° $\text{♏}$			10990 Jun 21 00:15	0° $\text{♎}$	
opposition	10984 Jul 25 15:36	12° $\text{♎}$ 54'30	0°54'00	evening set	10990 Jul 07 02:53	3° $\text{♎}$ 50'08	
min. Earth dist.	10984 Jul 25 10:08	12° $\text{♎}$ 56'17	4.46460 AU				
direct	10984 Sep 25 11:57	7° $\text{♎}$ 53'18		conjunction	10990 Jul 20 05:20	7° $\text{♎}$ 00'55	-0°38'30
	10984 Dec 08 06:36	15° $\text{♎}$		minimum elong	10990 Jul 20 05:21	7° $\text{♎}$ 00'55	0°39'02
evening set	10985 Jan 28 17:40	25° $\text{♎}$ 05'40		max. Earth dist.	10990 Jul 19 15:15	6° $\text{♎}$ 52'21	5.94706 AU
conjunction	10985 Feb 10 20:33	27° $\text{♎}$ 53'38	0°30'45	morning rise	10990 Aug 02 09:31	10° $\text{♎}$ 12'51	
minimum elong	10985 Feb 10 20:34	27° $\text{♎}$ 53'39	0°31'07		10990 Aug 22 13:06	15° $\text{♎}$	
max. Earth dist.	10985 Feb 10 12:29	27° $\text{♎}$ 49'20	6.49724 AU		10990 Nov 18 23:37	0° $\text{♏}$	
	10985 Feb 20 17:11	0° $\text{♏}$		retrograde	10990 Dec 11 18:19	0° $\text{♏}$ 50'44	
morning rise	10985 Feb 23 21:41	0° $\text{♏}$ 40'40			10991 Jan 03 11:40	30° $\text{♏}$	
retrograde	10985 Jun 24 11:19	17° $\text{♏}$ 16'01		opposition	10991 Feb 09 05:36	25° $\text{♏}$ 51'45	-0°47'25
opposition	10985 Aug 24 11:30	12° $\text{♏}$ 21'01	0°32'39	min. Earth dist.	10991 Feb 09 01:23	25° $\text{♏}$ 53'09	3.90855 AU
min. Earth dist.	10985 Aug 25 02:17	12° $\text{♏}$ 16'16	4.50834 AU	direct	10991 Apr 08 13:28	20° $\text{♏}$ 56'53	
direct	10985 Oct 26 00:28	7° $\text{♏}$ 19'38			10991 Jun 25 18:45	0° $\text{♐}$	
evening set	10986 Feb 27 23:30	24° $\text{♏}$ 25'46		evening set	10991 Aug 13 15:28	11° $\text{♐}$ 08'44	
conjunction	10986 Mar 12 22:30	27° $\text{♏}$ 12'11	0°12'39	conjunction	10991 Aug 27 00:35	14° $\text{♐}$ 25'07	-0°20'53
minimum elong	10986 Mar 12 22:31	27° $\text{♏}$ 12'11	0°12'43	minimum elong	10991 Aug 27 00:36	14° $\text{♐}$ 25'08	0°21'06
behind sun begin	10986 Mar 12 17:29	27° $\text{♏}$ 09'30		max. Earth dist.	10991 Aug 28 00:18	14° $\text{♐}$ 39'39	5.89774 AU
behind sun end	10986 Mar 13 03:33	27° $\text{♏}$ 14'53		morning rise	10991 Sep 09 12:08	17° $\text{♐}$ 42'46	
max. Earth dist.	10986 Mar 11 13:01	26° $\text{♏}$ 54'13	6.49680 AU		10991 Nov 03 03:35	0° $\text{♑}$	
morning rise	10986 Mar 25 19:23	29° $\text{♏}$ 57'44		retrograde	10992 Jan 19 11:28	8° $\text{♑}$ 35'28	
	10986 Mar 25 23:38	0° $\text{♑}$		opposition	10992 Mar 18 19:22	3° $\text{♑}$ 33'10	-0°12'01
retrograde	10986 Jul 24 11:58	16° $\text{♑}$ 38'20		min. Earth dist.	10992 Mar 17 16:07	3° $\text{♑}$ 42'25	3.91640 AU
opposition	10986 Sep 23 14:38	11° $\text{♑}$ 44'51	0°02'58		10992 Apr 17 05:55	30° $\text{♑}$	
min. Earth dist.	10986 Sep 24 21:00	11° $\text{♑}$ 35'09	4.46427 AU	direct	10992 May 15 17:52	28° $\text{♑}$ 37'49	
desc. node	10986 Oct 29 12:07	7° $\text{♑}$ 47'18			10992 Jun 13 05:49	0° $\text{♒}$	
direct	10986 Nov 25 04:53	6° $\text{♑}$ 43'50		asc. node	10992 Jul 14 10:09	4° $\text{♒}$ 11'12	
evening set	10987 Mar 30 05:40	24° $\text{♑}$ 07'03		evening set	10992 Sep 19 20:57	18° $\text{♒}$ 37'19	
max. Earth dist.	10987 Apr 09 22:12	26° $\text{♑}$ 27'14	6.41152 AU				
conjunction	10987 Apr 12 01:43	26° $\text{♑}$ 55'30	-0°09'06	conjunction	10992 Oct 03 11:00	21° $\text{♒}$ 52'55	0°05'20
minimum elong	10987 Apr 12 01:43	26° $\text{♑}$ 55'29	0°09'20	minimum elong	10992 Oct 03 10:59	21° $\text{♒}$ 52'55	0°05'30
behind sun begin	10987 Apr 11 19:00	26° $\text{♑}$ 51'50		behind sun begin	10992 Oct 03 02:56	21° $\text{♒}$ 48'06	
behind sun end	10987 Apr 12 08:25	26° $\text{♑}$ 59'09		behind sun end	10992 Oct 03 19:03	21° $\text{♒}$ 57'44	
morning rise	10987 Apr 24 20:16	29° $\text{♑}$ 43'25		max. Earth dist.	10992 Oct 05 17:02	22° $\text{♒}$ 25'23	5.96147 AU
	10987 Apr 26 02:42	0° $\text{♓}$		morning rise	10992 Oct 17 02:43	25° $\text{♒}$ 09'12	
	10987 Jul 19 16:33	15° $\text{♓}$			10992 Nov 06 20:44	0° $\text{♓}$	
retrograde	10987 Aug 25 05:01	16° $\text{♓}$ 59'54		retrograde	10993 Feb 10 01:50	15° $\text{♓}$	
	10987 Sep 30 21:05	15° $\text{♓}$			10993 Feb 24 08:34	15° $\text{♓}$ 20'15	
opposition	10987 Oct 25 02:14	12° $\text{♓}$ 06'43	-0°28'40	min. Earth dist.	10993 Mar 10 12:04	15° $\text{♓}$	
min. Earth dist.	10987 Oct 26 18:25	11° $\text{♓}$ 53'51	4.34238 AU	opposition	10993 Apr 23 06:12	10° $\text{♓}$ 29'14	4.02838 AU
direct	10987 Dec 26 04:16	7° $\text{♓}$ 06'37		direct	10993 Apr 24 20:25	10° $\text{♓}$ 16'15	0°27'08
	10988 Mar 11 20:46	15° $\text{♓}$			10993 Jun 22 07:38	5° $\text{♓}$ 19'00	
evening set	10988 Apr 29 11:42	25° $\text{♓}$ 08'10		evening set	10993 Sep 13 08:13	15° $\text{♓}$	
max. Earth dist.	10988 May 09 22:04	27° $\text{♓}$ 29'47	6.26133 AU		10993 Oct 27 02:24	24° $\text{♓}$ 34'25	
				conjunction	10993 Nov 09 16:54	27° $\text{♓}$ 43'17	0°28'31

minimum elong	10993 Nov 09 16:53	27° $\mathbb{M}$ 43'16	0°29'01		10999 Jun 22 07:31	15° $\mathcal{B}$	
max. Earth dist.	10993 Nov 12 05:00	28° $\mathbb{M}$ 18'04	6.10972 AU	retrograde	10999 Aug 29 16:58	21° $\mathcal{B}$ 29'01	
	10993 Nov 19 13:27	0° $\mathcal{A}$		opposition	10999 Oct 29 14:47	16° $\mathcal{B}$ 35'47	-0°32'42
morning rise	10993 Nov 23 08:11	0° $\mathcal{A}$ 52'10		min. Earth dist.	10999 Oct 31 06:01	16° $\mathcal{B}$ 23'12	4.32669 AU
retrograde	10994 Mar 30 09:13	19° $\mathcal{A}$ 50'14			10999 Nov 11 06:50	15° $\mathcal{R}$ $\mathcal{B}$	
min. Earth dist.	10994 May 27 20:27	14° $\mathcal{A}$ 59'07	4.19688 AU	direct	10999 Dec 30 13:04	11° $\mathcal{B}$ 35'55	
opposition	10994 May 29 08:20	14° $\mathcal{A}$ 47'04	0°53'50		11000 Feb 17 00:32	15° $\mathcal{B}$	
direct	10994 Jul 27 22:00	9° $\mathcal{A}$ 47'44		evening set	11000 May 04 22:12	29° $\mathcal{B}$ 42'03	
evening set	10994 Dec 01 04:36	28° $\mathcal{A}$ 09'23			11000 May 06 05:58	0° $\mathbb{I}$	
	10994 Dec 09 11:45	0° $\mathcal{B}$		max. Earth dist.	11000 May 15 10:20	2° $\mathbb{I}$ 05'14	6.24403 AU
conjunction	10994 Dec 14 16:12	1° $\mathcal{B}$ 09'20	0°40'47	conjunction	11000 May 17 17:25	2° $\mathbb{I}$ 36'38	-0°31'11
minimum elong	10994 Dec 14 16:11	1° $\mathcal{B}$ 09'20	0°41'24	minimum elong	11000 May 17 17:24	2° $\mathbb{I}$ 36'38	0°31'42
max. Earth dist.	10994 Dec 16 13:12	1° $\mathcal{B}$ 34'25	6.28375 AU	morning rise	11000 May 30 12:07	5° $\mathbb{I}$ 31'19	
morning rise	10994 Dec 28 03:10	4° $\mathcal{B}$ 08'41		retrograde	11000 Oct 03 03:13	23° $\mathbb{I}$ 58'15	
retrograde	10995 May 01 01:25	21° $\mathcal{B}$ 55'14		opposition	11000 Dec 02 13:01	19° $\mathbb{I}$ 04'01	-0°56'14
opposition	10995 Jun 30 10:24	16° $\mathcal{B}$ 54'52	1°01'32	min. Earth dist.	11000 Dec 04 01:18	18° $\mathbb{I}$ 52'14	4.15554 AU
min. Earth dist.	10995 Jun 29 13:02	17° $\mathcal{B}$ 01'55	4.36152 AU	direct	11001 Feb 01 08:14	14° $\mathbb{I}$ 05'51	
direct	10995 Aug 30 07:57	11° $\mathcal{B}$ 54'14			11001 May 24 23:33	0° $\mathcal{C}$	
evening set	10996 Jan 02 23:42	29° $\mathcal{B}$ 30'58		evening set	11001 Jun 07 06:44	3° $\mathcal{C}$ 05'18	
	10996 Jan 05 05:38	0° $\approx$		max. Earth dist.	11001 Jun 18 10:55	5° $\mathcal{C}$ 43'41	6.07029 AU
conjunction	10996 Jan 16 06:41	2° $\approx$ 23'15	0°40'08	conjunction	11001 Jun 20 04:26	6° $\mathcal{C}$ 08'17	-0°41'19
minimum elong	10996 Jan 16 06:41	2° $\approx$ 23'15	0°40'41	minimum elong	11001 Jun 20 04:25	6° $\mathcal{C}$ 08'16	0°41'57
max. Earth dist.	10996 Jan 17 01:00	2° $\approx$ 33'10	6.42684 AU	morning rise	11001 Jul 03 02:49	9° $\mathcal{C}$ 11'57	
morning rise	10996 Jan 29 12:14	5° $\approx$ 14'38		retrograde	11001 Nov 09 02:49	28° $\mathcal{C}$ 55'30	
	10996 Mar 18 10:48	15° $\approx$		opposition	11002 Jan 08 00:34	23° $\mathcal{C}$ 59'11	-1°02'00
retrograde	10996 May 30 01:46	22° $\approx$ 10'52		min. Earth dist.	11002 Jan 08 18:53	23° $\mathcal{C}$ 53'09	3.99412 AU
opposition	10996 Jul 29 21:02	17° $\approx$ 13'40	0°51'40	direct	11002 Mar 08 08:34	19° $\mathcal{C}$ 03'09	
min. Earth dist.	10996 Jul 29 18:04	17° $\approx$ 14'38	4.47424 AU		11002 Jun 04 13:25	0° $\mathcal{O}$	
	10996 Aug 16 16:30	15° $\mathcal{R}$ $\approx$		evening set	11002 Jul 13 00:28	8° $\mathcal{O}$ 52'25	
direct	10996 Sep 29 19:31	12° $\approx$ 12'29					
	10996 Nov 13 05:12	15° $\approx$		conjunction	11002 Jul 26 03:40	12° $\mathcal{O}$ 04'03	-0°36'56
evening set	10997 Feb 02 01:00	29° $\approx$ 23'09		minimum elong	11002 Jul 26 03:41	12° $\mathcal{O}$ 04'04	0°37'25
	10997 Feb 04 22:25	0° $\mathcal{H}$		max. Earth dist.	11002 Jul 25 17:18	11° $\mathcal{O}$ 57'45	5.93670 AU
conjunction	10997 Feb 15 03:25	2° $\mathcal{H}$ 10'44	0°28'33	morning rise	11002 Aug 07 04:51	15° $\mathcal{O}$	
minimum elong	10997 Feb 15 03:26	2° $\mathcal{H}$ 10'45	0°28'54		11002 Aug 08 08:47	15° $\mathcal{O}$ 16'55	
max. Earth dist.	10997 Feb 14 17:22	2° $\mathcal{H}$ 05'22	6.50183 AU	retrograde	11002 Oct 15 11:37	0° $\mathcal{P}$	
morning rise	10997 Feb 28 03:44	4° $\mathcal{H}$ 57'21		opposition	11002 Dec 17 22:55	5° $\mathcal{P}$ 59'31	
retrograde	10997 Jun 28 15:19	21° $\mathcal{H}$ 31'44		min. Earth dist.	11003 Feb 15 09:04	1° $\mathcal{P}$ 00'05	-0°43'34
opposition	10997 Aug 28 16:35	16° $\mathcal{H}$ 37'08	0°28'49		11003 Feb 15 02:31	1° $\mathcal{P}$ 02'17	3.90322 AU
min. Earth dist.	10997 Aug 29 08:52	16° $\mathcal{H}$ 31'54	4.50800 AU	direct	11003 Feb 22 21:20	30° $\mathcal{R}$ $\mathcal{O}$	
direct	10997 Oct 30 05:55	11° $\mathcal{H}$ 35'55			11003 Apr 14 15:26	26° $\mathcal{O}$ 05'13	
evening set	10998 Mar 04 05:38	28° $\mathcal{H}$ 42'50		evening set	11003 Jun 02 21:50	0° $\mathcal{P}$	
	10998 Mar 10 05:55	0° $\mathcal{Y}$			11003 Aug 19 17:14	16° $\mathcal{P}$ 18'02	
max. Earth dist.	10998 Mar 15 15:08	1° $\mathcal{Y}$ 09'26	6.49176 AU	conjunction	11003 Sep 02 03:23	19° $\mathcal{P}$ 34'51	-0°17'39
conjunction	10998 Mar 17 03:57	1° $\mathcal{Y}$ 29'14	0°09'42	minimum elong	11003 Sep 02 03:23	19° $\mathcal{P}$ 34'51	0°17'49
minimum elong	10998 Mar 17 03:57	1° $\mathcal{Y}$ 29'14	0°09'44	max. Earth dist.	11003 Sep 03 08:08	19° $\mathcal{P}$ 52'26	5.89816 AU
behind sun begin	10998 Mar 16 21:24	1° $\mathcal{Y}$ 25'43		morning rise	11003 Sep 15 15:37	22° $\mathcal{P}$ 52'49	
behind sun end	10998 Mar 17 10:30	1° $\mathcal{Y}$ 32'44			11003 Oct 15 21:36	0° $\mathcal{Q}$	
morning rise	10998 Mar 30 00:29	4° $\mathcal{Y}$ 14'49		retrograde	11004 Jan 25 14:18	13° $\mathcal{Q}$ 44'05	
retrograde	10998 Jul 28 21:12	20° $\mathcal{Y}$ 57'54		opposition	11004 Mar 24 20:56	8° $\mathcal{Q}$ 41'31	-0°06'36
desc. node	10998 Sep 09 19:20	18° $\mathcal{Y}$ 18'05		min. Earth dist.	11004 Mar 23 16:25	8° $\mathcal{Q}$ 51'12	3.92259 AU
opposition	10998 Sep 27 22:34	16° $\mathcal{Y}$ 04'36	-0°01'30	direct	11004 May 21 19:33	3° $\mathcal{Q}$ 46'00	
min. Earth dist.	10998 Sep 29 07:02	15° $\mathcal{Y}$ 54'14	4.45492 AU	asc. node	11004 May 27 17:16	3° $\mathcal{Q}$ 49'36	
direct	10998 Nov 29 13:01	11° $\mathcal{Y}$ 03'43		evening set	11004 Sep 25 23:17	23° $\mathcal{Q}$ 42'48	
evening set	10999 Apr 03 12:35	28° $\mathcal{Y}$ 29'49		conjunction	11004 Oct 09 13:38	26° $\mathcal{Q}$ 58'03	0°08'49
	10999 Apr 10 09:22	0° $\mathcal{B}$		minimum elong	11004 Oct 09 13:37	26° $\mathcal{Q}$ 58'02	0°09'02
max. Earth dist.	10999 Apr 14 03:57	0° $\mathcal{B}$ 49'46	6.39860 AU	behind sun begin	11004 Oct 09 06:31	26° $\mathcal{Q}$ 53'48	
conjunction	10999 Apr 16 08:25	1° $\mathcal{B}$ 18'38	-0°12'05	behind sun end	11004 Oct 09 20:44	27° $\mathcal{Q}$ 02'17	
minimum elong	10999 Apr 16 08:24	1° $\mathcal{B}$ 18'38	0°12'21	max. Earth dist.	11004 Oct 11 20:37	27° $\mathcal{Q}$ 30'58	5.97263 AU
behind sun begin	10999 Apr 16 03:05	1° $\mathcal{B}$ 15'44			11004 Oct 22 06:21	0° $\mathbb{M}$	
behind sun end	10999 Apr 16 13:42	1° $\mathcal{B}$ 21'32		morning rise	11004 Oct 23 05:50	0° $\mathbb{M}$ 13'57	
morning rise	10999 Apr 29 02:41	4° $\mathcal{B}$ 06'59		retrograde	11005 Jan 01 16:13	15° $\mathbb{M}$	
					11005 Mar 02 03:08	20° $\mathbb{M}$ 18'26	

min. Earth dist.	11005 Apr 29 01:07	15° $\mathbb{M}$ 27'45	4.04335 AU	conjunction	11011 Apr 21 15:21	5° $\mathcal{B}$ 42'14	-0°15'03
opposition	11005 Apr 30 16:23	15° $\mathbb{M}$ 14'25	0°31'42	minimum elong	11011 Apr 21 15:21	5° $\mathcal{B}$ 42'14	0°15'23
	11005 May 02 10:52	15° $\mathcal{R}\mathbb{M}$		behind sun begin	11011 Apr 21 12:50	5° $\mathcal{B}$ 40'51	
direct	11005 Jun 28 05:09	10° $\mathbb{M}$ 16'51		behind sun end	11011 Apr 21 17:51	5° $\mathcal{B}$ 43'37	
	11005 Aug 22 19:38	15° $\mathbb{M}$		morning rise	11011 May 04 09:35	8° $\mathcal{B}$ 31'11	
evening set	11005 Nov 02 00:53	29° $\mathbb{M}$ 27'25			11011 Jun 03 21:27	15° $\mathcal{B}$	
	11005 Nov 04 09:38	0° $\mathcal{Z}$		retrograde	11011 Sep 04 09:05	26° $\mathcal{B}$ 00'18	
conjunction	11005 Nov 15 15:19	2° $\mathcal{Z}$ 35'26	0°30'53	opposition	11011 Nov 04 04:42	21° $\mathcal{B}$ 06'58	-0°36'40
minimum elong	11005 Nov 15 15:18	2° $\mathcal{Z}$ 35'26	0°31'24	min. Earth dist.	11011 Nov 05 21:13	20° $\mathcal{B}$ 53'57	4.30578 AU
max. Earth dist.	11005 Nov 18 02:07	3° $\mathcal{Z}$ 09'22	6.12721 AU	direct	11012 Jan 05 00:55	16° $\mathcal{B}$ 07'13	
morning rise	11005 Nov 29 06:15	5° $\mathcal{Z}$ 43'22			11012 Apr 19 23:26	0° $\mathbb{I}$	
retrograde	11006 Apr 04 23:13	24° $\mathcal{Z}$ 33'16		evening set	11012 May 09 10:18	4° $\mathbb{I}$ 19'49	
opposition	11006 Jun 03 22:09	19° $\mathcal{Z}$ 30'21	0°55'59	max. Earth dist.	11012 May 19 22:54	6° $\mathbb{I}$ 44'00	6.22064 AU
min. Earth dist.	11006 Jun 02 12:15	19° $\mathcal{Z}$ 41'44	4.21511 AU	conjunction	11012 May 22 05:45	7° $\mathbb{I}$ 15'26	-0°33'16
direct	11006 Aug 02 16:15	14° $\mathcal{Z}$ 30'47		minimum elong	11012 May 22 05:44	7° $\mathbb{I}$ 15'26	0°33'49
	11006 Nov 24 03:17	0° $\mathcal{B}$		morning rise	11012 Jun 04 00:44	10° $\mathbb{I}$ 11'12	
evening set	11006 Dec 06 21:19	2° $\mathcal{B}$ 47'15		retrograde	11012 Oct 08 01:41	28° $\mathbb{I}$ 48'19	
conjunction	11006 Dec 20 08:27	5° $\mathcal{B}$ 46'17	0°41'23	opposition	11012 Dec 07 11:04	23° $\mathbb{I}$ 53'51	-0°58'17
minimum elong	11006 Dec 20 08:27	5° $\mathcal{B}$ 46'17	0°42'00	min. Earth dist.	11012 Dec 08 21:10	23° $\mathbb{I}$ 42'46	4.13147 AU
max. Earth dist.	11006 Dec 22 03:39	6° $\mathcal{B}$ 10'15	6.30132 AU	direct	11013 Feb 06 00:35	18° $\mathbb{I}$ 55'59	
morning rise	11007 Jan 02 18:48	8° $\mathcal{B}$ 44'37			11013 May 07 10:43	0° $\mathcal{E}$	
retrograde	11007 May 06 07:09	26° $\mathcal{B}$ 24'05		evening set	11013 Jun 12 02:30	8° $\mathcal{E}$ 03'03	
opposition	11007 Jul 05 18:43	21° $\mathcal{B}$ 24'01	1°01'02	max. Earth dist.	11013 Jun 23 10:24	10° $\mathcal{E}$ 44'27	6.04763 AU
min. Earth dist.	11007 Jul 04 22:24	21° $\mathcal{B}$ 30'44	4.37722 AU	conjunction	11013 Jun 25 00:43	11° $\mathcal{E}$ 07'16	-0°41'38
direct	11007 Sep 04 18:55	16° $\mathcal{B}$ 23'14		minimum elong	11013 Jun 25 00:43	11° $\mathcal{E}$ 07'16	0°42'16
	11007 Dec 20 19:15	0° $\approx$		morning rise	11013 Jul 07 23:54	14° $\mathcal{E}$ 12'19	
evening set	11008 Jan 08 10:51	3° $\approx$ 56'01			11013 Sep 23 08:06	0° $\mathcal{O}$	
conjunction	11008 Jan 21 17:13	6° $\approx$ 47'32	0°39'01	retrograde	11013 Nov 14 11:25	4° $\mathcal{O}$ 06'15	
minimum elong	11008 Jan 21 17:13	6° $\approx$ 47'32	0°39'33		11014 Jan 06 21:20	30° $\mathcal{R}\mathcal{E}$	
max. Earth dist.	11008 Jan 22 08:23	6° $\approx$ 55'44	6.43963 AU	opposition	11014 Jan 13 06:41	29° $\mathcal{E}$ 09'34	-1°00'52
morning rise	11008 Feb 03 21:59	9° $\approx$ 38'07		min. Earth dist.	11014 Jan 13 22:31	29° $\mathcal{E}$ 04'19	3.97498 AU
	11008 Feb 29 15:56	15° $\approx$		direct	11014 Mar 13 11:30	24° $\mathcal{E}$ 13'44	
retrograde	11008 Jun 04 06:36	26° $\approx$ 29'50			11014 May 13 20:16	0° $\mathcal{O}$	
opposition	11008 Aug 04 02:28	21° $\approx$ 32'58	0°49'02	evening set	11014 Jul 18 04:13	14° $\mathcal{O}$ 08'53	
min. Earth dist.	11008 Aug 04 02:09	21° $\approx$ 33'04	4.48314 AU		11014 Jul 21 16:21	15° $\mathcal{O}$	
direct	11008 Oct 05 04:31	16° $\approx$ 31'42		conjunction	11014 Jul 31 08:32	17° $\mathcal{O}$ 21'41	-0°35'00
	11009 Jan 20 17:15	0° $\mathcal{H}$		minimum elong	11014 Jul 31 08:33	17° $\mathcal{O}$ 21'41	0°35'28
evening set	11009 Feb 07 07:59	3° $\mathcal{H}$ 40'19		max. Earth dist.	11014 Jul 31 04:09	17° $\mathcal{O}$ 19'00	5.92316 AU
conjunction	11009 Feb 20 09:42	6° $\mathcal{H}$ 27'30	0°26'11	morning rise	11014 Aug 13 14:39	20° $\mathcal{O}$ 35'40	
minimum elong	11009 Feb 20 09:43	6° $\mathcal{H}$ 27'30	0°26'29		11014 Sep 23 06:32	0° $\mathbb{N}$	
max. Earth dist.	11009 Feb 19 19:05	6° $\mathcal{H}$ 19'42	6.50588 AU	retrograde	11014 Dec 23 10:45	11° $\mathbb{N}$ 23'47	
morning rise	11009 Mar 05 09:32	9° $\mathcal{H}$ 13'44		opposition	11015 Feb 20 19:01	6° $\mathbb{N}$ 23'57	-0°39'08
retrograde	11009 Jul 03 20:24	25° $\mathcal{H}$ 47'08		min. Earth dist.	11015 Feb 20 09:17	6° $\mathbb{N}$ 27'13	3.89712 AU
opposition	11009 Sep 02 21:48	20° $\mathcal{H}$ 52'38	0°24'47	direct	11015 Apr 19 22:05	1° $\mathbb{N}$ 29'10	
min. Earth dist.	11009 Sep 03 16:25	20° $\mathcal{H}$ 46'39	4.50678 AU	evening set	11015 Aug 25 02:06	21° $\mathbb{N}$ 43'05	
direct	11009 Nov 04 12:19	15° $\mathcal{H}$ 51'19		conjunction	11015 Sep 07 12:57	25° $\mathbb{N}$ 00'12	-0°14'05
	11010 Feb 23 07:22	0° $\mathcal{Y}$		minimum elong	11015 Sep 07 12:58	25° $\mathbb{N}$ 00'13	0°14'11
evening set	11010 Mar 09 10:59	2° $\mathcal{Y}$ 58'57		behind sun begin	11015 Sep 07 08:58	24° $\mathbb{N}$ 57'47	
max. Earth dist.	11010 Mar 20 18:47	5° $\mathcal{Y}$ 24'50	6.48503 AU	behind sun end	11015 Sep 07 16:57	25° $\mathbb{N}$ 02'39	
conjunction	11010 Mar 22 08:59	5° $\mathcal{Y}$ 45'24	0°06'41	max. Earth dist.	11015 Sep 08 21:14	25° $\mathbb{N}$ 19'56	5.89997 AU
minimum elong	11010 Mar 22 08:59	5° $\mathcal{Y}$ 45'24	0°06'40	morning rise	11015 Sep 21 02:14	28° $\mathbb{N}$ 18'31	
behind sun begin	11010 Mar 22 01:31	5° $\mathcal{Y}$ 41'24			11015 Sep 28 02:24	0° $\mathcal{A}$	
behind sun end	11010 Mar 22 16:27	5° $\mathcal{Y}$ 49'24		retrograde	11016 Jan 30 20:54	19° $\mathcal{A}$ 07'11	
morning rise	11010 Apr 04 04:54	8° $\mathcal{Y}$ 31'03		min. Earth dist.	11016 Mar 28 20:35	14° $\mathcal{A}$ 15'08	3.93232 AU
desc. node	11010 Jul 22 07:27	25° $\mathcal{Y}$ 04'03		opposition	11016 Mar 30 04:24	14° $\mathcal{A}$ 04'19	-0°00'48
retrograde	11010 Aug 03 04:08	25° $\mathcal{Y}$ 17'07		asc. node	11016 Apr 06 23:43	13° $\mathcal{A}$ 01'16	
opposition	11010 Oct 03 06:25	20° $\mathcal{Y}$ 23'51	-0°06'02	direct	11016 May 27 03:04	9° $\mathcal{A}$ 08'37	
min. Earth dist.	11010 Oct 04 15:53	20° $\mathcal{Y}$ 13'09	4.44283 AU	evening set	11016 Oct 01 07:06	29° $\mathcal{A}$ 01'06	
direct	11010 Dec 04 19:05	15° $\mathcal{Y}$ 23'03			11016 Oct 05 10:14	0° $\mathbb{N}$	
	11011 Mar 26 11:53	0° $\mathcal{B}$		conjunction	11016 Oct 14 21:47	2° $\mathbb{N}$ 15'41	0°12'26
evening set	11011 Apr 08 19:56	2° $\mathcal{B}$ 52'55		minimum elong	11016 Oct 14 21:47	2° $\mathbb{N}$ 15'41	0°12'44
max. Earth dist.	11011 Apr 19 09:07	5° $\mathcal{B}$ 12'16	6.38171 AU	behind sun begin	11016 Oct 14 16:36	2° $\mathbb{N}$ 12'37	

behind sun end	11016 Oct 15 02:58	2°♄18'46		retrograde	11022 Aug 07 12:02	29°♄34'02	
max. Earth dist.	11016 Oct 17 07:05	2°♄49'52	5.98939 AU	opposition	11022 Oct 07 13:13	24°♄40'46	-0°10'28
morning rise	11016 Oct 28 14:03	5°♄30'49		min. Earth dist.	11022 Oct 09 00:54	24°♄29'21	4.42704 AU
	11016 Dec 09 22:40	15°♄		direct	11022 Dec 09 00:40	19°♄40'00	
retrograde	11017 Mar 07 02:51	25°♄26'19			11023 Mar 09 14:24	0°♄	
min. Earth dist.	11017 May 04 01:39	20°♄35'29	4.06521 AU	evening set	11023 Apr 13 02:00	7°♄14'59	
opposition	11017 May 05 16:32	20°♄22'18	0°36'14	max. Earth dist.	11023 Apr 23 14:24	9°♄34'31	6.36032 AU
direct	11017 Jul 03 09:23	15°♄24'29					
	11017 Oct 18 06:06	0°♄		conjunction	11023 Apr 25 21:28	10°♄05'05	-0°17'55
evening set	11017 Nov 07 02:32	4°♄27'29		minimum elong	11023 Apr 25 21:27	10°♄05'05	0°18'17
				morning rise	11023 May 08 15:32	12°♄54'50	
conjunction	11017 Nov 20 16:43	7°♄34'16	0°33'09		11023 May 18 03:48	15°♄	
minimum elong	11017 Nov 20 16:41	7°♄34'15	0°33'42		11023 Aug 21 05:41	0°♄	
max. Earth dist.	11017 Nov 23 04:08	8°♄08'20	6.15228 AU	retrograde	11023 Sep 08 23:46	0°♄32'48	
morning rise	11017 Dec 04 07:06	10°♄40'48			11023 Sep 27 18:01	30°♄	
retrograde	11018 Apr 09 11:12	29°♄19'39		opposition	11023 Nov 08 18:43	25°♄39'21	-0°40'26
min. Earth dist.	11018 Jun 07 03:28	24°♄28'20	4.24110 AU	min. Earth dist.	11023 Nov 10 11:07	25°♄26'23	4.28006 AU
opposition	11018 Jun 08 13:07	24°♄17'04	0°57'50	direct	11024 Jan 09 10:33	20°♄39'50	
direct	11018 Aug 07 10:45	19°♄17'20			11024 Apr 02 02:48	0°♄	
	11018 Nov 06 09:12	0°♄		evening set	11024 May 13 23:19	9°♄00'39	
evening set	11018 Dec 11 14:28	7°♄26'06		max. Earth dist.	11024 May 24 12:24	11°♄26'05	6.19253 AU
conjunction	11018 Dec 25 00:49	10°♄23'48	0°41'47	conjunction	11024 May 26 18:53	11°♄57'31	-0°35'10
minimum elong	11018 Dec 25 00:49	10°♄23'47	0°42'24	minimum elong	11024 May 26 18:52	11°♄57'30	0°35'44
max. Earth dist.	11018 Dec 26 15:52	10°♄45'21	6.32616 AU	morning rise	11024 Jun 08 14:24	14°♄54'39	
morning rise	11019 Jan 07 10:26	13°♄20'47			11024 Aug 24 03:37	0°♄	
	11019 Apr 17 06:01	0°♄		retrograde	11024 Oct 13 04:24	3°♄43'54	
retrograde	11019 May 10 14:06	0°♄51'08			11024 Dec 03 07:10	30°♄	
	11019 Jun 02 17:47	30°♄		opposition	11024 Dec 12 10:58	28°♄49'09	-1°00'00
min. Earth dist.	11019 Jul 09 09:37	25°♄57'07	4.39897 AU	min. Earth dist.	11024 Dec 13 19:45	28°♄38'28	4.10304 AU
opposition	11019 Jul 10 02:38	25°♄51'32	1°00'15	direct	11025 Feb 10 20:23	23°♄51'31	
direct	11019 Sep 09 08:20	20°♄50'38			11025 Apr 16 11:20	0°♄	
	11019 Dec 02 22:34	0°♄		evening set	11025 Jun 17 00:43	13°♄07'50	
evening set	11020 Jan 12 20:06	8°♄17'41					
				conjunction	11025 Jun 29 23:52	16°♄13'37	-0°41'40
conjunction	11020 Jan 26 01:48	11°♄08'16	0°37'46	minimum elong	11025 Jun 29 23:52	16°♄13'37	0°42'17
minimum elong	11020 Jan 26 01:49	11°♄08'17	0°38'17	max. Earth dist.	11025 Jun 28 13:57	15°♄53'19	6.02167 AU
max. Earth dist.	11020 Jan 26 13:26	11°♄14'32	6.45664 AU	morning rise	11025 Jul 12 23:54	19°♄20'14	
morning rise	11020 Feb 08 05:46	13°♄57'54			11025 Aug 29 16:17	0°♄	
	11020 Feb 13 02:30	15°♄		retrograde	11025 Nov 19 23:33	9°♄25'33	
	11020 May 17 11:14	0°♄		opposition	11026 Jan 18 15:45	4°♄28'29	-0°59'15
retrograde	11020 Jun 08 07:50	0°♄44'22		min. Earth dist.	11026 Jan 19 04:06	4°♄24'24	3.95436 AU
	11020 Jun 30 03:13	30°♄			11026 Mar 02 05:48	30°♄	
opposition	11020 Aug 08 06:03	25°♄47'50	0°46'13	direct	11026 Mar 18 15:04	29°♄32'56	
min. Earth dist.	11020 Aug 08 07:49	25°♄47'15	4.49443 AU		11026 Apr 03 23:54	0°♄	
direct	11020 Oct 09 10:14	20°♄46'31			11026 Jul 04 08:43	15°♄	
	11021 Jan 03 08:27	0°♄		evening set	11026 Jul 23 11:35	19°♄34'22	
evening set	11021 Feb 11 12:33	7°♄52'42					
				conjunction	11026 Aug 05 16:47	22°♄48'15	-0°32'45
conjunction	11021 Feb 24 13:41	10°♄39'28	0°23'46	minimum elong	11026 Aug 05 16:48	22°♄48'16	0°33'11
minimum elong	11021 Feb 24 13:41	10°♄39'28	0°24'01	max. Earth dist.	11026 Aug 05 16:58	22°♄48'22	5.90996 AU
max. Earth dist.	11021 Feb 23 19:43	10°♄29'52	6.51064 AU	morning rise	11026 Aug 19 00:14	26°♄03'27	
morning rise	11021 Mar 09 12:46	13°♄25'16			11026 Sep 04 10:22	0°♄	
retrograde	11021 Jul 07 22:59	29°♄57'54		retrograde	11026 Dec 28 23:16	16°♄56'21	
opposition	11021 Sep 07 00:55	25°♄03'40	0°20'45	opposition	11027 Feb 26 07:50	11°♄55'58	-0°34'17
min. Earth dist.	11021 Sep 07 22:37	24°♄56'43	4.50462 AU	min. Earth dist.	11027 Feb 25 17:19	12°♄00'52	3.89311 AU
direct	11021 Nov 08 16:55	20°♄02'24		direct	11027 Apr 25 08:13	7°♄01'08	
	11022 Feb 06 10:34	0°♄		evening set	11027 Aug 30 13:50	27°♄14'54	
evening set	11022 Mar 13 14:29	7°♄11'19			11027 Sep 10 20:55	0°♄	
max. Earth dist.	11022 Mar 24 16:58	9°♄34'44	6.47587 AU				
				conjunction	11027 Sep 13 01:35	0°♄32'09	-0°10'21
conjunction	11022 Mar 26 11:54	9°♄57'55	0°03'42	minimum elong	11027 Sep 13 01:35	0°♄32'09	0°10'24
minimum elong	11022 Mar 26 11:54	9°♄57'55	0°03'40	behind sun begin	11027 Sep 12 19:02	0°♄28'10	
behind sun begin	11022 Mar 26 04:00	9°♄53'40		behind sun end	11027 Sep 13 08:08	0°♄36'08	
behind sun end	11022 Mar 26 19:49	10°♄02'10		max. Earth dist.	11027 Sep 14 15:50	0°♄55'30	5.90564 AU
morning rise	11022 Apr 08 07:38	12°♄43'48		morning rise	11027 Sep 26 15:28	3°♄50'27	
desc. node	11022 Jun 01 22:34	23°♄27'17		retrograde	11028 Feb 05 05:42	24°♄34'14	

asc. node	11028 Feb 15 21:37	24°♌22'38			11033 Sep 05 18:19	30°♏♏	
min. Earth dist.	11028 Apr 03 03:54	19°♌42'18	3.94674 AU	opposition	11033 Sep 11 05:57	29°♏18'00	0°16'32
opposition	11028 Apr 04 13:13	19°♌30'58	0°05'01	min. Earth dist.	11033 Sep 12 05:38	29°♏10'25	4.49813 AU
direct	11028 Jun 01 14:25	14°♌34'56		direct	11033 Nov 12 21:25	24°♏16'46	
	11028 Sep 17 23:23	0°♌			11034 Jan 17 10:36	0°♏	
evening set	11028 Oct 06 16:09	4°♌21'02		evening set	11034 Mar 17 19:57	11°♏28'21	
				max. Earth dist.	11034 Mar 28 20:37	13°♏51'11	6.46290 AU
conjunction	11028 Oct 20 07:02	7°♌34'40	0°15'58				
minimum elong	11028 Oct 20 07:01	7°♌34'40	0°16'19	conjunction	11034 Mar 30 17:06	14°♏15'17	0°00'34
max. Earth dist.	11028 Oct 22 19:25	8°♌10'29	6.01083 AU	minimum elong	11034 Mar 30 17:06	14°♏15'17	0°00'28
morning rise	11028 Nov 02 23:14	10°♌48'42		behind sun begin	11034 Mar 30 09:08	14°♏11'00	
	11028 Nov 21 02:04	15°♌		behind sun end	11034 Mar 31 01:05	14°♏19'35	
	11029 Feb 21 17:10	0°♏		desc. node	11034 Apr 10 01:43	16°♏29'55	
retrograde	11029 Mar 12 00:03	0°♏32'58		morning rise	11034 Apr 12 12:22	17°♏01'32	
	11029 Mar 30 04:11	30°♏♌			11034 Jun 20 11:42	0°♏	
min. Earth dist.	11029 May 09 00:14	25°♌42'26	4.09107 AU	retrograde	11034 Aug 11 22:27	3°♏57'12	
opposition	11029 May 10 16:01	25°♌28'58	0°40'26		11034 Oct 04 14:41	30°♏♏	
direct	11029 Jul 08 11:48	20°♌30'50		opposition	11034 Oct 11 22:59	29°♏04'03	-0°14'58
	11029 Sep 29 08:54	0°♏		min. Earth dist.	11034 Oct 13 12:23	28°♏52'06	4.40831 AU
evening set	11029 Nov 12 03:37	9°♏25'00		direct	11034 Dec 13 08:52	24°♏03'28	
					11035 Feb 17 11:24	0°♏	
conjunction	11029 Nov 25 17:12	12°♏30'20	0°35'10	evening set	11035 Apr 17 11:32	11°♏44'33	
minimum elong	11029 Nov 25 17:11	12°♏30'19	0°35'46	max. Earth dist.	11035 Apr 27 21:24	14°♏03'29	6.33703 AU
max. Earth dist.	11029 Nov 28 01:26	13°♏02'22	6.17990 AU				
morning rise	11029 Dec 09 07:07	15°♏35'23		conjunction	11035 Apr 30 06:46	14°♏35'30	-0°20'46
	11030 Feb 20 22:29	0°♏		minimum elong	11035 Apr 30 06:45	14°♏35'29	0°21'10
retrograde	11030 Apr 13 23:37	4°♏02'42			11035 May 02 02:39	15°♏	
	11030 Jun 05 15:48	30°♏♏		morning rise	11035 May 13 01:03	17°♏26'14	
min. Earth dist.	11030 Jun 11 20:10	29°♏10'49	4.26788 AU		11035 Jul 15 06:36	0°♏	
opposition	11030 Jun 13 03:16	29°♏00'25	0°59'18	retrograde	11035 Sep 13 19:35	5°♏13'50	
direct	11030 Aug 12 06:40	24°♏00'25		opposition	11035 Nov 13 12:34	0°♏20'18	-0°44'05
	11030 Oct 16 15:26	0°♏		min. Earth dist.	11035 Nov 15 04:43	0°♏07'22	4.25368 AU
evening set	11030 Dec 16 06:25	12°♏01'30			11035 Nov 16 03:35	30°♏♏	
				direct	11036 Jan 14 00:42	25°♏21'00	
conjunction	11030 Dec 29 16:15	14°♏57'58	0°41'55		11036 Mar 10 17:37	0°♏	
minimum elong	11030 Dec 29 16:15	14°♏57'58	0°42'31	evening set	11036 May 18 15:46	13°♏50'21	
max. Earth dist.	11030 Dec 31 04:51	15°♏18'04	6.35007 AU	max. Earth dist.	11036 May 29 08:05	16°♏18'29	6.16532 AU
morning rise	11031 Jan 12 00:54	17°♏53'38					
	11031 Mar 15 01:18	0°♏		conjunction	11036 May 31 11:51	16°♏48'31	-0°36'53
retrograde	11031 May 14 18:36	5°♏15'32		minimum elong	11036 May 31 11:50	16°♏48'31	0°37'29
opposition	11031 Jul 14 09:43	0°♏16'24	0°59'06	morning rise	11036 Jun 13 07:43	19°♏47'01	
min. Earth dist.	11031 Jul 13 18:35	0°♏21'22	4.41847 AU		11036 Jul 30 11:44	0°♏	
	11031 Jul 16 11:48	30°♏♏		retrograde	11036 Oct 18 10:23	8°♏48'06	
direct	11031 Sep 13 18:48	25°♏15'27		opposition	11036 Dec 17 14:34	3°♏53'12	-1°01'19
	11031 Nov 11 09:14	0°♏		min. Earth dist.	11036 Dec 18 21:04	3°♏43'15	4.07749 AU
evening set	11032 Jan 17 05:20	12°♏37'48			11037 Jan 20 22:14	30°♏♏	
	11032 Jan 28 06:53	15°♏		direct	11037 Feb 15 18:35	28°♏56'00	
					11037 Mar 13 12:08	0°♏	
conjunction	11032 Jan 30 10:14	15°♏27'34	0°36'17	evening set	11037 Jun 22 02:10	18°♏20'27	
minimum elong	11032 Jan 30 10:15	15°♏27'35	0°36'46	max. Earth dist.	11037 Jul 03 19:27	21°♏09'12	6.00027 AU
max. Earth dist.	11032 Jan 30 16:11	15°♏30'46	6.47040 AU				
morning rise	11032 Feb 12 13:31	18°♏16'24		conjunction	11037 Jul 05 01:54	21°♏27'32	-0°41'22
	11032 Apr 14 01:11	0°♏		minimum elong	11037 Jul 05 01:54	21°♏27'32	0°41'58
retrograde	11032 Jun 12 12:01	4°♏58'50		morning rise	11037 Jul 18 03:01	24°♏35'35	
opposition	11032 Aug 12 10:13	0°♏02'44	0°43'10		11037 Aug 10 04:52	0°♏	
	11032 Aug 12 18:41	30°♏♏		retrograde	11037 Nov 25 11:05	14°♏50'25	
min. Earth dist.	11032 Aug 12 16:02	0°♏00'52	4.50178 AU	opposition	11038 Jan 24 02:47	9°♏52'55	-0°57'05
direct	11032 Oct 13 18:03	25°♏01'23		min. Earth dist.	11038 Jan 24 10:25	9°♏50'23	3.93969 AU
	11032 Dec 13 11:50	0°♏		direct	11038 Mar 23 21:36	4°♏57'37	
evening set	11033 Feb 15 17:58	12°♏06'29			11038 Jun 15 04:57	15°♏	
				evening set	11038 Jul 28 20:13	25°♏02'56	
conjunction	11033 Feb 28 18:34	14°♏53'01	0°21'11				
minimum elong	11033 Feb 28 18:35	14°♏53'01	0°21'23	conjunction	11038 Aug 11 02:29	28°♏17'37	-0°30'13
max. Earth dist.	11033 Feb 27 20:09	14°♏41'03	6.51100 AU	minimum elong	11038 Aug 11 02:30	28°♏17'37	0°30'36
morning rise	11033 Mar 13 17:09	17°♏38'38		max. Earth dist.	11038 Aug 11 10:06	28°♏22'17	5.90383 AU
	11033 May 18 19:49	0°♏			11038 Aug 18 01:33	0°♏	
retrograde	11033 Jul 12 03:13	4°♏12'03		morning rise	11038 Aug 24 10:47	1°♏33'32	

retrograde	11039 Jan 03 12:43	22° $\mathbb{M}$ 27'57		retrograde	11044 Jun 16 13:07	9° $\mathbb{H}$ 10'26	
opposition	11039 Mar 03 19:48	17° $\mathbb{M}$ 27'06	-0°29'11	opposition	11044 Aug 16 13:03	4° $\mathbb{H}$ 14'42	0°39'59
min. Earth dist.	11039 Mar 03 02:31	17° $\mathbb{M}$ 32'56	3.89639 AU	min. Earth dist.	11044 Aug 16 20:53	4° $\mathbb{H}$ 12'11	4.50447 AU
direct	11039 Apr 30 20:22	12° $\mathbb{M}$ 32'13			11044 Sep 25 03:11	30° $\mathbb{R}$ $\approx$	
	11039 Aug 24 16:25	0° $\underline{\mathbb{L}}$		direct	11044 Oct 17 21:38	29° $\approx$ 13'22	
evening set	11039 Sep 05 00:07	2° $\underline{\mathbb{L}}$ 43'03			11044 Nov 09 21:41	0° $\mathbb{H}$	
				evening set	11045 Feb 19 22:29	16° $\mathbb{H}$ 18'41	
conjunction	11039 Sep 18 12:29	6° $\underline{\mathbb{L}}$ 00'00	-0°06'37	conjunction	11045 Mar 04 22:29	19° $\mathbb{H}$ 05'09	0°18'33
minimum elong	11039 Sep 18 12:29	6° $\underline{\mathbb{L}}$ 00'00	0°06'37	minimum elong	11045 Mar 04 22:30	19° $\mathbb{H}$ 05'10	0°18'44
behind sun begin	11039 Sep 18 04:40	5° $\underline{\mathbb{L}}$ 55'16		max. Earth dist.	11045 Mar 03 20:07	18° $\mathbb{H}$ 51'03	6.50704 AU
behind sun end	11039 Sep 18 20:19	6° $\underline{\mathbb{L}}$ 04'45		morning rise	11045 Mar 17 20:36	21° $\mathbb{H}$ 50'45	
max. Earth dist.	11039 Sep 20 07:54	6° $\underline{\mathbb{L}}$ 26'24	5.91780 AU		11045 Apr 27 09:02	0° $\mathbb{Y}$	
morning rise	11039 Oct 02 02:58	9° $\underline{\mathbb{L}}$ 17'56		retrograde	11045 Jul 16 09:16	8° $\mathbb{Y}$ 26'12	
asc. node	11039 Dec 27 08:57	26° $\underline{\mathbb{L}}$ 43'14		opposition	11045 Sep 15 11:04	3° $\mathbb{Y}$ 32'23	0°12'17
retrograde	11040 Feb 10 09:36	29° $\underline{\mathbb{L}}$ 54'10		min. Earth dist.	11045 Sep 16 13:53	3° $\mathbb{Y}$ 23'49	4.48787 AU
min. Earth dist.	11040 Apr 08 06:50	25° $\underline{\mathbb{L}}$ 02'48	3.96641 AU		11045 Oct 16 07:19	30° $\mathbb{R}$ $\mathbb{H}$	
opposition	11040 Apr 09 18:37	24° $\underline{\mathbb{L}}$ 50'38	0°10'36	direct	11045 Nov 17 03:36	28° $\mathbb{H}$ 31'12	
direct	11040 Jun 06 20:36	19° $\underline{\mathbb{L}}$ 54'21			11045 Dec 19 02:09	0° $\mathbb{Y}$	
	11040 Aug 30 03:39	0° $\mathbb{M}$		desc. node	11046 Feb 16 14:07	8° $\mathbb{Y}$ 51'37	
evening set	11040 Oct 11 21:29	9° $\mathbb{M}$ 32'33		evening set	11046 Mar 22 01:45	15° $\mathbb{Y}$ 46'24	
				max. Earth dist.	11046 Apr 01 22:42	18° $\mathbb{Y}$ 07'48	6.44706 AU
conjunction	11040 Oct 25 12:11	12° $\mathbb{M}$ 44'57	0°19'15	conjunction	11046 Apr 03 22:32	18° $\mathbb{Y}$ 33'48	-0°02'33
minimum elong	11040 Oct 25 12:10	12° $\mathbb{M}$ 44'56	0°19'38	minimum elong	11046 Apr 03 22:33	18° $\mathbb{Y}$ 33'49	0°02'42
max. Earth dist.	11040 Oct 27 23:54	13° $\mathbb{M}$ 20'09	6.03567 AU	behind sun begin	11046 Apr 03 14:35	18° $\mathbb{Y}$ 29'30	
	11040 Nov 04 01:43	15° $\mathbb{M}$		behind sun end	11046 Apr 04 06:31	18° $\mathbb{Y}$ 38'07	
morning rise	11040 Nov 08 04:20	15° $\mathbb{M}$ 57'43		morning rise	11046 Apr 16 17:40	21° $\mathbb{Y}$ 20'36	
	11041 Jan 14 18:56	0° $\mathbb{J}$			11046 May 29 03:24	0° $\mathbb{B}$	
retrograde	11041 Mar 16 16:58	5° $\mathbb{J}$ 30'09		retrograde	11046 Aug 16 09:40	8° $\mathbb{B}$ 22'32	
min. Earth dist.	11041 May 13 20:40	0° $\mathbb{J}$ 39'20	4.11831 AU	opposition	11046 Oct 16 09:46	3° $\mathbb{B}$ 29'22	-0°19'22
opposition	11041 May 15 11:23	0° $\mathbb{J}$ 26'14	0°44'09	min. Earth dist.	11046 Oct 17 23:21	3° $\mathbb{B}$ 17'20	4.38793 AU
	11041 May 18 17:06	30° $\mathbb{M}$			11046 Nov 15 15:53	30° $\mathbb{R}$ $\mathbb{Y}$	
direct	11041 Jul 13 12:22	25° $\mathbb{M}$ 27'46		direct	11046 Dec 17 16:39	28° $\mathbb{Y}$ 28'54	
	11041 Sep 06 11:26	0° $\mathbb{J}$			11047 Jan 18 18:03	0° $\mathbb{B}$	
evening set	11041 Nov 17 00:16	14° $\mathbb{J}$ 13'05			11047 Apr 16 03:43	15° $\mathbb{B}$	
				evening set	11047 Apr 21 21:39	16° $\mathbb{B}$ 16'17	
conjunction	11041 Nov 30 13:32	17° $\mathbb{J}$ 17'01	0°36'52	max. Earth dist.	11047 May 02 09:04	18° $\mathbb{B}$ 36'47	6.31368 AU
minimum elong	11041 Nov 30 13:32	17° $\mathbb{J}$ 17'00	0°37'28	conjunction	11047 May 04 16:57	19° $\mathbb{B}$ 08'09	-0°23'29
max. Earth dist.	11041 Dec 02 20:29	17° $\mathbb{J}$ 48'08	6.20723 AU	minimum elong	11047 May 04 16:57	19° $\mathbb{B}$ 08'09	0°23'54
morning rise	11041 Dec 14 02:36	20° $\mathbb{J}$ 20'32		morning rise	11047 May 17 11:10	21° $\mathbb{B}$ 59'49	
	11042 Jan 28 23:50	0° $\mathbb{B}$			11047 Jun 23 23:38	0° $\mathbb{I}$	
retrograde	11042 Apr 18 08:12	8° $\mathbb{B}$ 36'54		retrograde	11047 Sep 18 16:18	9° $\mathbb{I}$ 56'56	
min. Earth dist.	11042 Jun 16 08:14	3° $\mathbb{B}$ 44'49	4.29296 AU	opposition	11047 Nov 18 07:36	5° $\mathbb{I}$ 03'17	-0°47'26
opposition	11042 Jun 17 13:25	3° $\mathbb{B}$ 35'06	1°00'19	min. Earth dist.	11047 Nov 19 23:15	4° $\mathbb{I}$ 50'29	4.22894 AU
	11042 Jul 17 19:16	30° $\mathbb{R}$ $\mathbb{J}$		direct	11048 Jan 18 15:58	0° $\mathbb{I}$ 04'17	
direct	11042 Aug 16 21:17	28° $\mathbb{J}$ 34'56		evening set	11048 May 23 08:56	18° $\mathbb{I}$ 41'08	
	11042 Sep 16 07:00	0° $\mathbb{B}$		max. Earth dist.	11048 Jun 03 02:37	21° $\mathbb{I}$ 10'56	6.14115 AU
evening set	11042 Dec 20 18:53	16° $\mathbb{B}$ 29'13		conjunction	11048 Jun 05 05:11	21° $\mathbb{I}$ 40'27	-0°38'19
				minimum elong	11048 Jun 05 05:10	21° $\mathbb{I}$ 40'26	0°38'57
conjunction	11043 Jan 03 03:54	19° $\mathbb{B}$ 24'32	0°41'48	morning rise	11048 Jun 18 01:43	24° $\mathbb{I}$ 40'12	
minimum elong	11043 Jan 03 03:54	19° $\mathbb{B}$ 24'32	0°42'25		11048 Jul 11 12:51	0° $\mathbb{E}$	
max. Earth dist.	11043 Jan 04 10:38	19° $\mathbb{B}$ 41'21	6.37098 AU	retrograde	11048 Oct 23 15:05	13° $\mathbb{E}$ 51'46	
morning rise	11043 Jan 16 11:57	22° $\mathbb{B}$ 19'05		opposition	11048 Dec 22 17:57	8° $\mathbb{E}$ 56'30	-1°02'09
	11043 Feb 22 15:01	0° $\approx$		min. Earth dist.	11048 Dec 23 21:01	8° $\mathbb{E}$ 47'39	4.05591 AU
retrograde	11043 May 18 22:41	9° $\approx$ 33'54		direct	11049 Feb 20 16:58	3° $\mathbb{E}$ 59'33	
opposition	11043 Jul 18 14:21	4° $\approx$ 35'14	0°57'43	evening set	11049 Jun 27 02:54	23° $\mathbb{E}$ 30'26	
min. Earth dist.	11043 Jul 18 02:59	4° $\approx$ 38'57	4.43402 AU	max. Earth dist.	11049 Jul 09 03:07	26° $\mathbb{E}$ 23'55	5.98333 AU
	11043 Sep 01 10:10	30° $\mathbb{R}$ $\mathbb{B}$		conjunction	11049 Jul 10 03:31	26° $\mathbb{E}$ 38'39	-0°40'44
direct	11043 Sep 18 03:33	29° $\mathbb{B}$ 34'08		minimum elong	11049 Jul 10 03:31	26° $\mathbb{E}$ 38'39	0°41'19
	11043 Oct 04 23:32	0° $\approx$		morning rise	11049 Jul 23 05:22	29° $\mathbb{E}$ 47'51	
	11044 Jan 12 13:51	15° $\approx$			11049 Jul 24 01:37	0° $\mathbb{Q}$	
evening set	11044 Jan 21 11:47	16° $\approx$ 53'04			11049 Oct 03 03:50	15° $\mathbb{Q}$	
				retrograde	11049 Nov 30 22:26	20° $\mathbb{Q}$ 10'06	
conjunction	11044 Feb 03 16:15	19° $\approx$ 42'16	0°34'40				
minimum elong	11044 Feb 03 16:16	19° $\approx$ 42'17	0°35'07				
max. Earth dist.	11044 Feb 03 18:59	19° $\approx$ 43'44	6.47966 AU				
morning rise	11044 Feb 16 18:43	22° $\approx$ 30'29					
	11044 Mar 24 16:51	0° $\mathbb{H}$					



opposition	11050 Jan 29 11:57	15°♎12'09	-0°54'24			11055 Dec 26 15:09	15°♏	
min. Earth dist.	11050 Jan 29 16:53	15°♎10'30	3.92914 AU	evening set		11056 Jan 25 20:06	21°♏12'23	
	11050 Jan 31 00:26	15°♎♎						
direct	11050 Mar 29 03:50	10°♎17'02		conjunction		11056 Feb 07 23:45	24°♏01'03	0°32'49
	11050 May 22 20:07	15°♎		minimum elong		11056 Feb 07 23:46	24°♏01'04	0°33'14
	11050 Aug 01 10:10	0°♎		max. Earth dist.		11056 Feb 07 21:15	23°♏59'43	6.48714 AU
evening set	11050 Aug 03 02:39	0°♎24'38		morning rise		11056 Feb 21 01:44	26°♏48'47	
						11056 Mar 07 06:20	0°♏	
conjunction	11050 Aug 16 09:48	3°♎39'55	-0°27'27	retrograde		11056 Jun 20 18:31	13°♏26'48	
minimum elong	11050 Aug 16 09:49	3°♎39'55	0°27'46	opposition		11056 Aug 20 17:56	8°♏31'28	0°36'31
max. Earth dist.	11050 Aug 16 22:15	3°♎47'32	5.90058 AU	min. Earth dist.		11056 Aug 21 04:55	8°♏27'56	4.50669 AU
morning rise	11050 Aug 29 19:10	6°♎56'27		direct		11056 Oct 22 04:43	3°♏30'12	
retrograde	11051 Jan 08 21:18	27°♎51'08		evening set		11057 Feb 24 04:29	20°♏35'45	
min. Earth dist.	11051 Mar 08 07:25	22°♎56'58	3.90106 AU	max. Earth dist.		11057 Mar 07 23:42	23°♏06'58	6.50412 AU
opposition	11051 Mar 09 04:29	22°♎49'51	-0°23'53					
direct	11051 May 06 03:11	17°♎54'54		conjunction		11057 Mar 09 04:07	23°♏22'11	0°15'45
	11051 Aug 06 17:23	0°♎		minimum elong		11057 Mar 09 04:07	23°♏22'11	0°15'53
evening set	11051 Sep 10 07:43	8°♎02'46		behind sun begin		11057 Mar 09 03:06	23°♏21'38	
				behind sun end		11057 Mar 09 05:08	23°♏22'43	
conjunction	11051 Sep 23 20:30	11°♎19'21	-0°02'52	morning rise		11057 Mar 22 01:36	26°♏07'41	
minimum elong	11051 Sep 23 20:31	11°♎19'22	0°02'48			11057 Apr 09 13:46	0°♏	
behind sun begin	11051 Sep 23 12:10	11°♎14'20		retrograde		11057 Jul 20 14:50	12°♏44'52	
behind sun end	11051 Sep 24 04:52	11°♎24'24		opposition		11057 Sep 19 17:54	7°♏51'15	0°07'54
max. Earth dist.	11051 Sep 25 18:05	11°♎46'59	5.92968 AU	min. Earth dist.		11057 Sep 20 21:11	7°♏42'32	4.48036 AU
morning rise	11051 Oct 07 11:33	14°♎36'56		direct		11057 Nov 21 08:56	2°♏50'15	
asc. node	11051 Nov 05 21:45	21°♎28'18		desc. node		11057 Dec 26 08:14	4°♏35'55	
	11051 Dec 19 09:46	0°♎		evening set		11058 Mar 26 08:24	20°♏07'57	
retrograde	11052 Feb 15 10:20	5°♎06'11		max. Earth dist.		11058 Apr 06 04:23	22°♏29'13	6.43563 AU
min. Earth dist.	11052 Apr 13 08:24	0°♎14'54	3.98399 AU					
opposition	11052 Apr 14 21:01	0°♎02'27	0°16'02	conjunction		11058 Apr 08 04:47	22°♏55'38	-0°05'37
	11052 Apr 15 04:14	30°♎♎		minimum elong		11058 Apr 08 04:46	22°♏55'37	0°05'50
direct	11052 Jun 12 01:44	25°♎05'52		behind sun begin		11058 Apr 07 21:09	22°♏51'29	
	11052 Aug 07 08:31	0°♎		behind sun end		11058 Apr 08 12:24	22°♏59'46	
evening set	11052 Oct 17 00:42	14°♎37'30		morning rise		11058 Apr 20 23:32	25°♏42'43	
	11052 Oct 18 15:15	15°♎				11058 May 11 02:52	0°♏	
				retrograde		11058 Aug 20 22:06	12°♏49'32	
conjunction	11052 Oct 30 15:35	17°♎48'56	0°22'21	opposition		11058 Oct 20 21:08	7°♏56'24	-0°23'41
minimum elong	11052 Oct 30 15:33	17°♎48'55	0°22'47	min. Earth dist.		11058 Oct 22 12:00	7°♏43'58	4.37327 AU
max. Earth dist.	11052 Nov 02 04:38	18°♎24'44	6.05731 AU	direct		11058 Dec 22 03:08	2°♏56'08	
morning rise	11052 Nov 13 07:21	21°♎00'32				11059 Mar 30 12:13	15°♏	
	11052 Dec 24 01:14	0°♏		evening set		11059 Apr 26 07:18	20°♏47'47	
retrograde	11053 Mar 21 10:29	10°♏22'44		max. Earth dist.		11059 May 06 17:43	23°♏08'18	6.29684 AU
min. Earth dist.	11053 May 18 15:28	5°♏31'48	4.14166 AU					
opposition	11053 May 20 05:13	5°♏19'04	0°47'32	conjunction		11059 May 09 02:25	23°♏40'14	-0°26'01
direct	11053 Jul 18 10:11	0°♏20'22		minimum elong		11059 May 09 02:24	23°♏40'14	0°26'29
evening set	11053 Nov 21 20:20	18°♏58'35		morning rise		11059 May 21 20:44	26°♏32'36	
						11059 Jun 06 11:34	0°♏	
conjunction	11053 Dec 05 09:01	22°♏01'18	0°38'19	retrograde		11059 Sep 23 09:43	14°♏37'00	
minimum elong	11053 Dec 05 09:00	22°♏01'18	0°38'56	opposition		11059 Nov 23 00:50	9°♏43'08	-0°50'24
max. Earth dist.	11053 Dec 07 12:26	22°♏30'16	6.23015 AU	min. Earth dist.		11059 Nov 24 14:38	9°♏30'55	4.21109 AU
morning rise	11053 Dec 18 21:38	25°♏03'37		direct		11060 Jan 23 05:02	4°♏44'21	
	11054 Jan 10 12:43	0°♏		evening set		11060 May 27 23:21	23°♏26'22	
retrograde	11054 Apr 22 16:59	13°♏10'55		max. Earth dist.		11060 Jun 07 21:06	25°♏59'05	6.12376 AU
opposition	11054 Jun 21 23:50	8°♏09'31	1°01'00					
min. Earth dist.	11054 Jun 20 20:46	8°♏18'31	4.31371 AU	conjunction		11060 Jun 09 19:58	26°♏26'32	-0°39'27
direct	11054 Aug 21 11:20	3°♏09'12		minimum elong		11060 Jun 09 19:57	26°♏26'32	0°40'05
evening set	11054 Dec 25 07:46	20°♏58'12		morning rise		11060 Jun 22 16:47	29°♏27'12	
						11060 Jun 25 01:11	0°♏	
conjunction	11055 Jan 07 16:18	23°♏52'37	0°41'26	retrograde		11060 Oct 28 16:49	18°♏46'50	
minimum elong	11055 Jan 07 16:19	23°♏52'38	0°42'03	opposition		11060 Dec 27 17:35	13°♏51'16	-1°02'27
max. Earth dist.	11055 Jan 08 20:17	24°♏07'53	6.38820 AU	min. Earth dist.		11060 Dec 28 19:22	13°♏42'48	4.04039 AU
morning rise	11055 Jan 20 23:27	26°♏46'10		direct		11061 Feb 25 13:24	8°♏54'33	
	11055 Feb 05 02:57	0°♏		evening set		11061 Jul 01 23:01	28°♏29'42	
retrograde	11055 May 23 03:42	13°♏55'11				11061 Jul 08 04:56	0°♏	
opposition	11055 Jul 22 20:15	8°♏57'03	0°55'59	max. Earth dist.		11061 Jul 14 02:40	1°♏25'43	5.97109 AU
min. Earth dist.	11055 Jul 22 11:11	9°♏00'01	4.44674 AU					
direct	11055 Sep 22 12:19	3°♏56'00		conjunction		11061 Jul 15 00:15	1°♏38'47	-0°39'48

minimum elong	11061 Jul 15 00:16	1°Ω38'47	0°40'23			11067 Jul 13 15:59	15°R≈	
morning rise	11061 Jul 28 03:04	4°Ω48'58		opposition	11067 Jul 27 01:57	13°≈17'18	0°53'56	
	11061 Sep 10 21:59	15°Ω		min. Earth dist.	11067 Jul 26 18:57	13°≈19'35	4.45735 AU	
retrograde	11061 Dec 06 01:38	25°Ω16'47		direct	11067 Sep 26 20:27	8°≈16'07		
opposition	11062 Feb 03 15:08	20°Ω18'25	-0°51'26		11067 Dec 07 08:17	15°≈		
min. Earth dist.	11062 Feb 03 16:20	20°Ω18'01	3.92167 AU	evening set	11068 Jan 30 03:36	25°≈30'06		
direct	11062 Apr 03 03:22	15°Ω23'22						
	11062 Jul 15 21:49	0°Π		conjunction	11068 Feb 12 06:49	28°≈18'18	0°30'47	
evening set	11062 Aug 08 03:34	5°Π32'32		minimum elong	11068 Feb 12 06:50	28°≈18'19	0°31'10	
				max. Earth dist.	11068 Feb 12 02:30	28°≈16'00	6.49359 AU	
conjunction	11062 Aug 21 11:30	8°Π48'18	-0°24'37		11068 Feb 20 04:57	0°Π		
minimum elong	11062 Aug 21 11:31	8°Π48'18	0°24'54	morning rise	11068 Feb 25 07:58	1°Π05'31		
max. Earth dist.	11062 Aug 22 03:20	8°Π57'59	5.89862 AU	retrograde	11068 Jun 24 21:48	17°Π41'37		
morning rise	11062 Sep 03 21:47	12°Π05'20		opposition	11068 Aug 24 22:39	12°Π46'32	0°32'50	
	11062 Dec 01 08:52	0°Ω		min. Earth dist.	11068 Aug 25 11:15	12°Π42'29	4.50840 AU	
retrograde	11063 Jan 13 23:28	3°Ω00'03		direct	11068 Oct 26 10:26	7°Π45'16		
	11063 Feb 26 20:39	30°RΠ		evening set	11069 Feb 28 10:02	24°Π50'47		
min. Earth dist.	11063 Mar 13 08:02	28°Π06'04	3.90480 AU	max. Earth dist.	11069 Mar 12 00:29	27°Π19'39	6.50059 AU	
opposition	11063 Mar 14 06:50	27°Π58'20	-0°18'42					
direct	11063 May 11 05:38	23°Π03'10		conjunction	11069 Mar 13 08:58	27°Π37'05	0°12'53	
	11063 Jul 17 14:54	0°Ω		minimum elong	11069 Mar 13 08:58	27°Π37'05	0°12'58	
evening set	11063 Sep 15 09:41	13°Ω08'55		behind sun begin	11069 Mar 13 04:06	27°Π34'29		
asc. node	11063 Sep 17 02:29	13°Ω33'28		behind sun end	11069 Mar 13 13:50	27°Π39'41		
					11069 Mar 24 11:49	0°Υ		
conjunction	11063 Sep 28 23:13	16°Ω25'22	0°00'48	morning rise	11069 Mar 26 06:05	0°Υ22'33		
minimum elong	11063 Sep 28 23:15	16°Ω25'23	0°00'56	retrograde	11069 Jul 24 22:34	17°Υ01'31		
behind sun begin	11063 Sep 28 14:52	16°Ω20'20		opposition	11069 Sep 24 00:32	12°Υ08'01	0°03'27	
behind sun end	11063 Sep 29 07:38	16°Ω30'26		min. Earth dist.	11069 Sep 25 06:31	11°Υ58'26	4.47144 AU	
max. Earth dist.	11063 Oct 01 00:39	16°Ω55'15	5.93885 AU	desc. node	11069 Nov 05 02:40	7°Υ44'52		
morning rise	11063 Oct 12 14:37	19°Ω42'40		direct	11069 Nov 25 16:10	7°Υ07'01		
	11063 Nov 27 04:09	0°Π		evening set	11070 Mar 30 14:33	24°Υ27'36		
retrograde	11064 Feb 20 08:45	10°Π06'17		max. Earth dist.	11070 Apr 10 08:23	26°Υ48'09	6.42164 AU	
min. Earth dist.	11064 Apr 18 05:39	5°Π15'00	3.99752 AU					
opposition	11064 Apr 19 18:32	5°Π02'29	0°21'03	conjunction	11070 Apr 12 10:43	27°Υ15'41	-0°08'40	
direct	11064 Jun 17 01:20	0°Π05'38		minimum elong	11070 Apr 12 10:42	27°Υ15'41	0°08'54	
	11064 Oct 02 03:25	15°Π		behind sun begin	11070 Apr 12 03:51	27°Υ11'57		
evening set	11064 Oct 21 23:52	19°Π32'30		behind sun end	11070 Apr 12 17:33	27°Υ19'25		
					11070 Apr 24 23:18	0°Ξ		
conjunction	11064 Nov 04 14:39	22°Π43'09	0°25'09	morning rise	11070 Apr 25 05:12	0°Ξ03'13		
minimum elong	11064 Nov 04 14:38	22°Π43'09	0°25'38		11070 Jul 17 10:15	15°Ξ		
max. Earth dist.	11064 Nov 07 02:57	23°Π18'22	6.07376 AU	retrograde	11070 Aug 25 09:16	17°Ξ15'52		
morning rise	11064 Nov 18 06:29	25°Π53'57			11070 Oct 03 15:56	15°RΞ		
	11064 Dec 06 06:50	0°Ξ		opposition	11070 Oct 25 08:36	12°Ξ22'41	-0°27'55	
retrograde	11065 Mar 25 23:32	15°Ξ08'04		min. Earth dist.	11070 Oct 26 23:14	12°Ξ10'18	4.35485 AU	
min. Earth dist.	11065 May 23 06:37	10°Ξ17'12	4.15950 AU	direct	11070 Dec 26 10:48	7°Ξ22'35		
opposition	11065 May 24 20:03	10°Ξ04'34	0°50'29		11071 Mar 11 20:18	15°Ξ		
direct	11065 Jul 23 03:41	5°Ξ05'35		evening set	11071 Apr 30 17:22	25°Ξ19'55		
evening set	11065 Nov 26 14:06	23°Ξ38'37		max. Earth dist.	11071 May 11 04:41	27°Ξ41'37	6.27521 AU	
conjunction	11065 Dec 10 02:29	26°Ξ40'26	0°39'28	conjunction	11071 May 13 12:28	28°Ξ13'13	-0°28'27	
minimum elong	11065 Dec 10 02:28	26°Ξ40'25	0°40'05	minimum elong	11071 May 13 12:27	28°Ξ13'13	0°28'58	
max. Earth dist.	11065 Dec 12 03:51	27°Ξ08'09	6.24812 AU		11071 May 21 09:01	0°Π		
morning rise	11065 Dec 23 14:27	29°Ξ41'42		morning rise	11071 May 26 06:53	1°Π06'30		
	11065 Dec 24 23:23	0°Ξ		retrograde	11071 Sep 28 07:56	19°Π20'18		
retrograde	11066 Apr 27 02:22	17°Ξ41'32		opposition	11071 Nov 27 20:03	14°Π26'19	-0°53'10	
min. Earth dist.	11066 Jun 25 08:17	12°Ξ48'45	4.33030 AU	min. Earth dist.	11071 Nov 29 10:05	14°Π14'00	4.18750 AU	
opposition	11066 Jun 26 09:03	12°Ξ40'32	1°01'16	direct	11072 Jan 27 20:58	9°Π27'47		
direct	11066 Aug 26 00:50	7°Ξ40'03		evening set	11072 Jun 01 16:15	28°Π17'14		
evening set	11066 Dec 29 19:56	25°Ξ24'50			11072 Jun 08 23:41	0°Φ		
				max. Earth dist.	11072 Jun 12 15:38	0°Φ51'44	6.10023 AU	
conjunction	11067 Jan 12 03:49	28°Ξ18'27	0°40'49					
minimum elong	11067 Jan 12 03:49	28°Ξ18'27	0°41'24	conjunction	11072 Jun 14 13:18	1°Φ18'37	-0°40'23	
max. Earth dist.	11067 Jan 13 04:06	28°Ξ31'39	6.40221 AU	minimum elong	11072 Jun 14 13:18	1°Φ18'36	0°41'00	
	11067 Jan 19 22:47	0°≈		morning rise	11072 Jun 27 10:50	4°Φ20'35		
morning rise	11067 Jan 25 10:25	1°≈11'11		retrograde	11072 Nov 02 20:42	23°Φ50'50		
	11067 Apr 10 08:18	15°≈		opposition	11073 Jan 01 20:47	18°Φ54'58	-1°02'21	
retrograde	11067 May 27 08:06	18°≈15'08		min. Earth dist.	11073 Jan 02 19:06	18°Φ47'37	4.01912 AU	

direct	11073 Mar 02 10:35	13°♄58'33		direct	11078 Aug 30 13:56	12°♄12'49	
	11073 Jun 21 13:19	0°♄		evening set	11079 Jan 03 07:26	29°♄51'08	
evening set	11073 Jul 07 00:08	3°♄40'29			11079 Jan 03 23:55	0°♄	
max. Earth dist.	11073 Jul 19 09:18	6°♄40'30	5.95420 AU				
				conjunction	11079 Jan 16 14:36	2°♄43'39	0°40'01
conjunction	11073 Jul 20 02:13	6°♄50'47	-0°38'33	minimum elong	11079 Jan 16 14:36	2°♄43'39	0°40'34
minimum elong	11073 Jul 20 02:14	6°♄50'47	0°39'06	max. Earth dist.	11079 Jan 17 11:05	2°♄54'45	6.42227 AU
morning rise	11073 Aug 02 06:02	10°♄02'13		morning rise	11079 Jan 29 20:17	5°♄35'15	
	11073 Aug 23 04:36	15°♄			11079 Mar 17 19:08	15°♄	
	11073 Nov 21 23:18	0°♄		retrograde	11079 May 31 11:33	22°♄32'30	
retrograde	11073 Dec 11 12:48	0°♄37'33		opposition	11079 Jul 31 06:26	17°♄35'05	0°51'40
	11073 Dec 31 00:26	30°♄		min. Earth dist.	11079 Jul 31 02:37	17°♄36'19	4.47255 AU
opposition	11074 Feb 08 23:58	25°♄38'45	-0°47'54		11079 Aug 21 05:07	15°♄	
min. Earth dist.	11074 Feb 08 22:18	25°♄39'19	3.91100 AU	direct	11079 Oct 01 05:15	12°♄33'50	
direct	11074 Apr 08 09:59	20°♄43'48			11079 Nov 11 12:04	15°♄	
	11074 Jun 26 16:02	0°♄		evening set	11080 Feb 03 09:21	29°♄44'08	
evening set	11074 Aug 13 10:43	10°♄55'45			11080 Feb 04 15:15	0°♄	
				conjunction	11080 Feb 16 11:47	2°♄31'43	0°28'40
conjunction	11074 Aug 26 19:46	14°♄12'10	-0°21'25	minimum elong	11080 Feb 16 11:48	2°♄31'44	0°29'01
minimum elong	11074 Aug 26 19:47	14°♄12'11	0°21'39	max. Earth dist.	11080 Feb 16 02:06	2°♄26'33	6.50269 AU
max. Earth dist.	11074 Aug 27 17:54	14°♄25'44	5.89544 AU	morning rise	11080 Feb 29 12:23	5°♄18'20	
morning rise	11074 Sep 09 06:56	17°♄29'48		retrograde	11080 Jun 29 00:08	21°♄52'03	
	11074 Nov 03 23:15	0°♄		opposition	11080 Aug 29 01:16	16°♄57'10	0°29'07
retrograde	11075 Jan 19 09:03	8°♄24'31		min. Earth dist.	11080 Aug 29 16:51	16°♄52'09	4.51094 AU
opposition	11075 Mar 19 15:19	3°♄22'29	-0°13'04	direct	11080 Oct 30 14:43	11°♄55'48	
min. Earth dist.	11075 Mar 18 13:56	3°♄31'05	3.90967 AU	evening set	11081 Mar 04 13:06	29°♄01'15	
	11075 Apr 16 05:01	30°♄			11081 Mar 09 03:13	0°♄	
direct	11075 May 16 12:57	28°♄27'16		max. Earth dist.	11081 Mar 16 00:58	1°♄28'52	6.49626 AU
	11075 Jun 15 20:32	0°♄					
asc. node	11075 Jul 26 06:48	6°♄00'45		conjunction	11081 Mar 17 11:42	1°♄47'32	0°10'01
evening set	11075 Sep 20 18:10	18°♄30'16		minimum elong	11081 Mar 17 11:43	1°♄47'32	0°10'03
				behind sun begin	11081 Mar 17 05:17	1°♄44'06	
conjunction	11075 Oct 04 08:04	21°♄46'22	0°04'36	behind sun end	11081 Mar 17 18:08	1°♄50'58	
minimum elong	11075 Oct 04 08:03	21°♄46'21	0°04'47	morning rise	11081 Mar 30 08:11	4°♄32'57	
behind sun begin	11075 Oct 03 23:52	21°♄41'27		retrograde	11081 Jul 29 02:36	21°♄14'17	
behind sun end	11075 Oct 04 16:14	21°♄51'15		desc. node	11081 Sep 17 03:41	17°♄44'26	
max. Earth dist.	11075 Oct 06 11:41	22°♄17'27	5.95109 AU	opposition	11081 Sep 28 05:19	16°♄20'51	-0°00'55
morning rise	11075 Oct 17 23:59	25°♄03'14		min. Earth dist.	11081 Sep 29 12:59	16°♄10'44	4.46038 AU
	11075 Nov 08 03:03	0°♄		direct	11081 Nov 29 19:30	11°♄19'52	
retrograde	11076 Feb 11 10:35	15°♄		evening set	11082 Apr 03 19:08	28°♄44'10	
	11076 Feb 25 09:06	15°♄19'27			11082 Apr 09 13:59	0°♄	
	11076 Mar 10 06:48	15°♄		max. Earth dist.	11082 Apr 14 09:49	1°♄03'34	6.40436 AU
min. Earth dist.	11076 Apr 23 05:55	10°♄28'43	4.01590 AU				
opposition	11076 Apr 24 20:40	10°♄15'33	0°26'08	conjunction	11082 Apr 16 14:52	1°♄32'44	-0°11'37
direct	11076 Jun 22 05:34	5°♄18'26		minimum elong	11082 Apr 16 14:52	1°♄32'44	0°11'54
	11076 Sep 13 04:50	15°♄		behind sun begin	11082 Apr 16 09:18	1°♄29'42	
evening set	11076 Oct 27 03:40	24°♄38'40		behind sun end	11082 Apr 16 20:26	1°♄35'47	
				morning rise	11082 Apr 29 09:19	4°♄20'53	
conjunction	11076 Nov 09 18:22	27°♄48'12	0°27'55		11082 Jun 21 07:57	15°♄	
minimum elong	11076 Nov 09 18:21	27°♄48'12	0°28'26	retrograde	11082 Aug 29 22:35	21°♄40'44	
max. Earth dist.	11076 Nov 12 06:40	28°♄23'15	6.09673 AU	opposition	11082 Oct 29 19:31	16°♄47'28	-0°31'58
	11076 Nov 19 05:36	0°♄		min. Earth dist.	11082 Oct 31 12:06	16°♄34'27	4.33215 AU
morning rise	11076 Nov 23 09:46	0°♄57'45			11082 Nov 13 02:03	15°♄	
retrograde	11077 Mar 30 16:44	20°♄01'08		direct	11082 Dec 30 19:42	11°♄47'26	
min. Earth dist.	11077 May 28 01:50	15°♄09'56	4.18471 AU		11083 Feb 15 19:27	15°♄	
opposition	11077 May 29 13:41	14°♄57'52	0°53'11	evening set	11083 May 05 03:15	29°♄52'00	
direct	11077 Jul 28 02:21	9°♄58'38			11083 May 05 17:26	0°♄	
evening set	11077 Dec 01 09:46	28°♄23'50		max. Earth dist.	11083 May 15 14:10	2°♄14'19	6.24875 AU
	11077 Dec 08 14:32	0°♄					
				conjunction	11083 May 17 22:35	2°♄46'26	-0°30'42
conjunction	11077 Dec 14 21:36	1°♄24'19	0°40'25	minimum elong	11083 May 17 22:34	2°♄46'26	0°31'15
minimum elong	11077 Dec 14 21:35	1°♄24'19	0°41'04	morning rise	11083 May 30 17:16	5°♄40'54	
max. Earth dist.	11077 Dec 16 21:15	1°♄50'55	6.27347 AU	retrograde	11083 Oct 03 04:39	24°♄05'50	
morning rise	11077 Dec 28 08:51	4°♄24'12		opposition	11083 Dec 02 15:50	19°♄11'37	-0°55'38
retrograde	11078 May 01 08:41	22°♄14'06		min. Earth dist.	11083 Dec 04 04:08	18°♄59'51	4.15924 AU
opposition	11078 Jun 30 18:42	17°♄13'27	1°01'14	direct	11084 Feb 01 10:49	14°♄13'20	
min. Earth dist.	11078 Jun 29 19:07	17°♄21'15	4.35386 AU				

	11084 May 23 15:36	0°♄		conjunction	11089 Dec 19 15:44	6°♄05'14	0°41'07
evening set	11084 Jun 06 10:50	3°♄12'03		minimum elong	11089 Dec 19 15:44	6°♄05'14	0°41'45
max. Earth dist.	11084 Jun 17 13:46	5°♄49'36	6.07259 AU	max. Earth dist.	11089 Dec 21 10:56	6°♄29'13	6.29954 AU
				morning rise	11090 Jan 02 02:15	9°♄03'42	
conjunction	11084 Jun 19 08:27	6°♄14'53	-0°41'03	retrograde	11090 May 05 16:55	26°♄43'57	
minimum elong	11084 Jun 19 08:26	6°♄14'53	0°41'41	min. Earth dist.	11090 Jul 04 07:42	21°♄50'25	4.37651 AU
morning rise	11084 Jul 02 06:47	9°♄18'26		opposition	11090 Jul 05 03:47	21°♄43'48	1°00'48
retrograde	11084 Nov 08 05:48	29°♄00'57		direct	11090 Sep 04 04:33	16°♄43'03	
opposition	11085 Jan 07 02:42	24°♄04'44	-1°01'50		11090 Dec 18 12:38	0°♄	
min. Earth dist.	11085 Jan 07 22:41	23°♄58'08	3.99462 AU	evening set	11091 Jan 07 18:23	4°♄15'35	
direct	11085 Mar 07 12:40	19°♄08'34					
	11085 Jun 03 06:23	0°♄		conjunction	11091 Jan 21 00:55	7°♄07'10	0°38'58
evening set	11085 Jul 12 04:08	8°♄58'19		minimum elong	11091 Jan 21 00:56	7°♄07'10	0°39'31
				max. Earth dist.	11091 Jan 21 17:35	7°♄16'09	6.43990 AU
conjunction	11085 Jul 25 07:22	12°♄10'01	-0°36'59	morning rise	11091 Feb 03 05:48	9°♄57'47	
minimum elong	11085 Jul 25 07:23	12°♄10'01	0°37'30		11091 Feb 27 08:45	15°♄	
max. Earth dist.	11085 Jul 24 20:34	12°♄03'26	5.93548 AU	retrograde	11091 Jun 04 14:04	26°♄49'32	
	11085 Aug 05 22:33	15°♄		opposition	11091 Aug 04 11:03	21°♄52'33	0°49'06
morning rise	11085 Aug 07 12:16	15°♄22'51		min. Earth dist.	11091 Aug 04 09:26	21°♄53'04	4.48427 AU
	11085 Oct 14 00:22	0°♄		direct	11091 Oct 05 11:56	16°♄51'19	
retrograde	11085 Dec 17 02:48	6°♄05'55			11092 Jan 19 11:13	0°♄	
opposition	11086 Feb 14 11:56	1°♄06'40	-0°43'55	evening set	11092 Feb 07 15:26	3°♄59'17	
min. Earth dist.	11086 Feb 14 06:18	1°♄08'33	3.90053 AU				
	11086 Feb 22 20:28	30°♄		conjunction	11092 Feb 20 17:18	6°♄46'27	0°26'21
direct	11086 Apr 13 17:49	26°♄11'50		minimum elong	11092 Feb 20 17:18	6°♄46'27	0°26'40
	11086 Jun 01 06:51	0°♄		max. Earth dist.	11092 Feb 20 03:57	6°♄39'19	6.50781 AU
evening set	11086 Aug 18 21:33	16°♄26'13		morning rise	11092 Mar 04 17:09	9°♄32'38	
				retrograde	11092 Jul 03 04:14	26°♄05'32	
conjunction	11086 Sep 01 07:23	19°♄43'08	-0°18'00	opposition	11092 Sep 02 05:38	21°♄11'00	0°25'11
minimum elong	11086 Sep 01 07:24	19°♄43'08	0°18'11	min. Earth dist.	11092 Sep 03 00:21	21°♄05'00	4.50917 AU
max. Earth dist.	11086 Sep 02 10:02	19°♄59'27	5.89420 AU	direct	11092 Nov 03 20:35	16°♄09'43	
morning rise	11086 Sep 14 19:41	23°♄01'17			11093 Feb 21 04:10	0°♄	
	11086 Oct 14 09:46	0°♄		evening set	11093 Mar 08 18:10	3°♄16'32	
retrograde	11087 Jan 24 18:22	13°♄54'24		max. Earth dist.	11093 Mar 20 00:37	5°♄41'38	6.48761 AU
min. Earth dist.	11087 Mar 23 20:29	9°♄01'52	3.91791 AU				
opposition	11087 Mar 25 01:45	8°♄51'56	-0°07'16	conjunction	11093 Mar 21 16:10	6°♄02'55	0°07'03
direct	11087 May 21 23:29	3°♄56'28		minimum elong	11093 Mar 21 16:10	6°♄02'56	0°07'02
asc. node	11087 Jun 03 17:29	4°♄13'19		behind sun begin	11093 Mar 21 08:47	5°♄58'58	
evening set	11087 Sep 26 04:40	23°♄55'10		behind sun end	11093 Mar 21 23:34	6°♄06'53	
				morning rise	11093 Apr 03 12:25	8°♄48'34	
conjunction	11087 Oct 09 19:01	27°♄10'37	0°08'21	desc. node	11093 Jul 28 20:06	25°♄31'48	
minimum elong	11087 Oct 09 19:01	27°♄10'37	0°08'34	retrograde	11093 Aug 02 11:31	25°♄33'49	
behind sun begin	11087 Oct 09 11:44	27°♄06'17		opposition	11093 Oct 02 13:04	20°♄40'29	-0°05'25
behind sun end	11087 Oct 10 02:17	27°♄14'58		min. Earth dist.	11093 Oct 03 22:57	20°♄29'39	4.44533 AU
max. Earth dist.	11087 Oct 12 02:08	27°♄43'41	5.96784 AU	direct	11093 Dec 04 02:05	15°♄39'35	
	11087 Oct 21 14:08	0°♄			11094 Mar 24 12:28	0°♄	
morning rise	11087 Oct 23 11:04	0°♄26'43		evening set	11094 Apr 08 02:43	3°♄08'54	
	11087 Dec 31 11:36	15°♄		max. Earth dist.	11094 Apr 18 16:35	5°♄28'28	6.38396 AU
retrograde	11088 Mar 01 11:21	20°♄33'27					
min. Earth dist.	11088 Apr 28 08:50	15°♄42'33	4.03878 AU	conjunction	11094 Apr 20 22:27	5°♄58'13	-0°14'36
opposition	11088 Apr 29 23:31	15°♄29'24	0°31'01	minimum elong	11094 Apr 20 22:26	5°♄58'12	0°14'56
	11088 May 03 14:15	15°♄		behind sun begin	11094 Apr 20 19:18	5°♄56'29	
direct	11088 Jun 27 12:39	10°♄31'57		behind sun end	11094 Apr 21 01:35	5°♄59'56	
	11088 Aug 20 10:09	15°♄		morning rise	11094 May 03 16:39	8°♄47'06	
evening set	11088 Nov 01 07:25	29°♄43'48			11094 Jun 01 21:29	15°♄	
	11088 Nov 02 11:36	0°♄		retrograde	11094 Sep 03 14:02	26°♄15'16	
				opposition	11094 Nov 03 10:15	21°♄21'58	-0°35'59
conjunction	11088 Nov 14 21:53	2°♄52'01	0°30'28	min. Earth dist.	11094 Nov 05 02:39	21°♄09'00	4.30767 AU
minimum elong	11088 Nov 14 21:52	2°♄52'01	0°31'00	direct	11095 Jan 04 06:08	16°♄22'12	
max. Earth dist.	11088 Nov 17 10:51	3°♄27'13	6.12328 AU		11095 Apr 19 02:36	0°♄	
morning rise	11088 Nov 28 12:49	6°♄00'08		evening set	11095 May 09 17:01	4°♄34'36	
retrograde	11089 Apr 04 06:31	24°♄51'38		max. Earth dist.	11095 May 20 04:24	6°♄58'05	6.22198 AU
min. Earth dist.	11089 Jun 01 19:01	20°♄00'35	4.21218 AU				
opposition	11089 Jun 03 06:36	19°♄48'39	0°55'29	conjunction	11095 May 22 12:23	7°♄30'10	-0°32'51
direct	11089 Aug 01 22:54	14°♄49'12		minimum elong	11095 May 22 12:22	7°♄30'09	0°33'25
	11089 Nov 21 23:42	0°♄		morning rise	11095 Jun 04 07:30	10°♄25'55	
evening set	11089 Dec 06 04:40	3°♄06'08		retrograde	11095 Oct 08 07:37	29°♄02'22	

opposition	11095 Dec 07 16:13	24° $\Pi$ 07'58	-0°57'47	direct	11101 Aug 07 17:43	19° $\text{X}$ 30'15	
min. Earth dist.	11095 Dec 09 03:17	23° $\Pi$ 56'34	4.13214 AU		11101 Nov 05 12:02	0° $\text{Z}$	
direct	11096 Feb 06 07:13	19° $\Pi$ 10'00		evening set	11101 Dec 11 19:30	7° $\text{Z}$ 39'21	
	11096 May 05 14:02	0° $\text{G}$					
evening set	11096 Jun 11 09:05	8° $\text{G}$ 17'21		conjunction	11101 Dec 25 06:06	10° $\text{Z}$ 37'13	0°41'31
max. Earth dist.	11096 Jun 22 16:59	10° $\text{G}$ 58'42	6.04785 AU	minimum elong	11101 Dec 25 06:06	10° $\text{Z}$ 37'13	0°42'10
				max. Earth dist.	11101 Dec 26 22:48	10° $\text{Z}$ 59'41	6.32359 AU
conjunction	11096 Jun 24 07:28	11° $\text{G}$ 21'37	-0°41'25	morning rise	11102 Jan 07 15:42	13° $\text{Z}$ 34'21	
minimum elong	11096 Jun 24 07:28	11° $\text{G}$ 21'37	0°42'04				
morning rise	11096 Jul 07 06:31	14° $\text{G}$ 26'37					
	11096 Sep 21 00:31	0° $\text{O}$					
retrograde	11096 Nov 13 17:16	4° $\text{O}$ 20'03					
	11097 Jan 07 20:56	30° $\text{R}$ $\text{G}$					
opposition	11097 Jan 12 11:42	29° $\text{G}$ 23'32	-1°00'46				
min. Earth dist.	11097 Jan 13 03:59	29° $\text{G}$ 18'09	3.97508 AU				
direct	11097 Mar 12 16:19	24° $\text{G}$ 27'43					
	11097 May 11 17:29	0° $\text{O}$					
evening set	11097 Jul 17 10:58	14° $\text{O}$ 23'14					
	11097 Jul 19 23:29	15° $\text{O}$					
conjunction	11097 Jul 30 14:58	17° $\text{O}$ 35'55	-0°35'05				
minimum elong	11097 Jul 30 14:59	17° $\text{O}$ 35'56	0°35'34				
max. Earth dist.	11097 Jul 30 08:47	17° $\text{O}$ 32'09	5.92321 AU				
morning rise	11097 Aug 12 21:04	20° $\text{O}$ 49'52					
	11097 Sep 21 10:18	0° $\text{O}$					
retrograde	11097 Dec 22 14:44	11° $\text{O}$ 37'33					
opposition	11098 Feb 20 00:25	6° $\text{O}$ 37'45	-0°39'31				
min. Earth dist.	11098 Feb 19 14:03	6° $\text{O}$ 41'15	3.89727 AU				
direct	11098 Apr 19 03:38	1° $\text{O}$ 42'57					
evening set	11098 Aug 24 08:06	21° $\text{O}$ 56'45					
conjunction	11098 Sep 06 18:50	25° $\text{O}$ 13'45	-0°14'28				
minimum elong	11098 Sep 06 18:51	25° $\text{O}$ 13'46	0°14'34				
behind sun begin	11098 Sep 06 15:16	25° $\text{O}$ 11'35					
behind sun end	11098 Sep 06 22:25	25° $\text{O}$ 15'56					
max. Earth dist.	11098 Sep 08 03:56	25° $\text{O}$ 34'00	5.90039 AU				
morning rise	11098 Sep 20 07:44	28° $\text{O}$ 31'53					
	11098 Sep 26 09:42	0° $\text{O}$					
retrograde	11099 Jan 30 03:03	19° $\text{O}$ 20'15					
min. Earth dist.	11099 Mar 29 03:22	14° $\text{O}$ 27'50	3.93269 AU				
opposition	11099 Mar 30 10:14	14° $\text{O}$ 17'20	-0°01'32				
asc. node	11099 Apr 14 06:36	12° $\text{O}$ 19'52					
direct	11099 May 27 10:18	9° $\text{O}$ 21'37					
evening set	11099 Oct 01 12:21	29° $\text{O}$ 13'34					
	11099 Oct 04 18:28	0° $\text{O}$					
conjunction	11099 Oct 15 02:54	2° $\text{O}$ 28'04	0°11'54				
minimum elong	11099 Oct 15 02:53	2° $\text{O}$ 28'03	0°12'13				
behind sun begin	11099 Oct 14 21:20	2° $\text{O}$ 24'46					
behind sun end	11099 Oct 15 08:25	2° $\text{O}$ 31'21					
max. Earth dist.	11099 Oct 17 13:04	3° $\text{O}$ 02'45	5.98943 AU				
morning rise	11099 Oct 28 18:58	5° $\text{O}$ 43'06					
	11099 Dec 09 03:44	15° $\text{O}$					
retrograde	11100 Mar 07 07:40	25° $\text{O}$ 38'37					
min. Earth dist.	11100 May 04 06:36	20° $\text{O}$ 48'02	4.06477 AU				
opposition	11100 May 05 22:21	20° $\text{O}$ 34'33	0°35'28				
direct	11100 Jul 03 14:02	15° $\text{O}$ 36'47					
	11100 Oct 17 13:02	0° $\text{X}$					
evening set	11100 Nov 07 07:25	4° $\text{X}$ 39'35					
conjunction	11100 Nov 20 21:20	7° $\text{X}$ 46'20	0°32'41				
minimum elong	11100 Nov 20 21:19	7° $\text{X}$ 46'19	0°33'16				
max. Earth dist.	11100 Nov 23 07:11	8° $\text{X}$ 19'31	6.15105 AU				
morning rise	11100 Dec 04 11:48	10° $\text{X}$ 52'56					
retrograde	11101 Apr 09 17:49	29° $\text{X}$ 32'41					
min. Earth dist.	11101 Jun 07 10:40	24° $\text{X}$ 41'02	4.23913 AU				
opposition	11101 Jun 08 19:38	24° $\text{X}$ 29'59	0°57'19				