

Planetary Phenomena of Venus from -101 through 0 (UT), Astrodienst AG 24-Mai-2003 10:48, page 1

Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

superior conj	-101 Sep 17 j 21:28	21° \mathbb{M} 20'06	1°18'03	direct	-98 Mar 09 j 11:56	17° \approx 08'03	
minimum elong	-101 Sep 18 j 04:46	21° \mathbb{M} 42'57	1°17'55	greatest brilliancy	-98 Mar 20 j 09:38	19° \approx 18'48	-4.5m
	-101 Sep 24 j 19:12	0° $\underline{\text{A}}$			-98 Apr 07 j 11:11	0° \mathbb{K}	
	-101 Oct 18 j 16:30	0° \mathbb{L}		desc. node	-98 Apr 15 j 09:38	6° \mathbb{K} 25'22	
evening rise	-101 Oct 27 j 19:45	11° \mathbb{L} 28'31		morning max el	-98 Apr 27 j 11:57	17° \mathbb{K} 27'13	45°53'31
desc. node	-101 Oct 29 j 14:45	13° \mathbb{L} 43'32			-98 May 10 j 02:09	0° \mathbb{Y}	
	-101 Nov 11 j 14:01	0° \mathbb{Z}			-98 Jun 06 j 21:30	0° \mathbb{B}	
	-101 Dec 05 j 12:50	0° \mathbb{C}			-98 Jul 03 j 03:12	0° \mathbb{I}	
	-101 Dec 29 j 14:28	0° \approx			-98 Jul 28 j 11:37	0° \mathbb{S}	
	-100 Jan 22 j 21:45	0° \mathbb{H}		asc. node	-98 Aug 06 j 12:49	10° \mathbb{S} 54'17	
	-100 Feb 16 j 15:21	0° \mathbb{Y}			-98 Aug 22 j 04:51	0° \mathbb{Q}	
asc. node	-100 Feb 19 j 17:39	3° \mathbb{Y} 42'10			-98 Sep 15 j 11:03	0° \mathbb{M}	
	-100 Mar 13 j 02:57	0° \mathbb{B}			-98 Oct 09 j 10:18	0° $\underline{\text{A}}$	
	-100 Apr 08 j 23:54	0° \mathbb{I}		morning set	-98 Oct 22 j 11:07	16° $\underline{\text{A}}$ 23'43	
evening max el	-100 Apr 29 j 18:32	21° \mathbb{I} 11'33	45°17'57		-98 Nov 02 j 06:21	0° \mathbb{L}	
	-100 May 09 j 09:14	0° \mathbb{S}			-98 Nov 26 j 01:52	0° \mathbb{Z}	
greatest brilliancy	-100 Jun 03 j 17:56	17° \mathbb{S} 30'01	-4.5m	desc. node	-98 Nov 26 j 02:34	0° \mathbb{Z} 02'12	
desc. node	-100 Jun 10 j 07:20	19° \mathbb{S} 46'16					
retrograde	-100 Jun 17 j 05:13	20° \mathbb{S} 38'45		superior conj	-98 Dec 02 j 14:09	8° \mathbb{Z} 11'45	0°-15'-19
evening set	-100 Jul 02 j 23:46	15° \mathbb{S} 54'54		minimum elong	-98 Dec 02 j 10:02	7° \mathbb{Z} 58'46	0°15'09
inferior conj	-100 Jul 08 j 14:10	12° \mathbb{S} 33'46	-6°-1'-24	behind sun begin	-98 Dec 01 j 23:45	7° \mathbb{Z} 26'27	
minimum elong	-100 Jul 08 j 04:10	12° \mathbb{S} 49'15	5°59'17	behind sun end	-98 Dec 02 j 20:18	8° \mathbb{Z} 31'05	
min. Earth dist.	-100 Jul 08 j 17:33	12° \mathbb{S} 28'31	0.28742 AU	max. Earth dist.	-98 Dec 04 j 19:58	11° \mathbb{Z} 00'59	1.71059 AU
morning rise	-100 Jul 13 j 08:22	9° \mathbb{S} 40'56			-98 Dec 19 j 22:24	0° \mathbb{C}	
direct	-100 Jul 30 j 05:17	4° \mathbb{S} 19'40			-97 Jan 12 j 20:54	0° \approx	
greatest brilliancy	-100 Aug 13 j 15:17	7° \mathbb{S} 59'14	-4.5m	evening rise	-97 Jan 13 j 07:19	0° \approx 32'34	
	-100 Sep 12 j 00:37	0° \mathbb{Q}			-97 Feb 05 j 22:39	0° \mathbb{K}	
morning max el	-100 Sep 18 j 01:32	5° \mathbb{Q} 51'05	46°25'17		-97 Mar 02 j 05:26	0° \mathbb{Y}	
asc. node	-100 Oct 01 j 10:21	19° \mathbb{Q} 43'01		asc. node	-97 Mar 19 j 05:33	20° \mathbb{Y} 47'40	
	-100 Oct 10 j 18:58	0° \mathbb{M}			-97 Mar 26 j 19:31	0° \mathbb{B}	
	-100 Nov 05 j 16:17	0° $\underline{\text{A}}$			-97 Apr 20 j 19:37	0° \mathbb{I}	
	-100 Nov 30 j 11:50	0° \mathbb{L}			-97 May 16 j 10:09	0° \mathbb{S}	
	-100 Dec 24 j 21:11	0° \mathbb{Z}			-97 Jun 12 j 01:09	0° \mathbb{Q}	
	-99 Jan 18 j 03:18	0° \mathbb{C}		desc. node	-97 Jul 08 j 19:19	27° \mathbb{Q} 54'06	
desc. node	-99 Jan 21 j 00:16	3° \mathbb{C} 33'21			-97 Jul 10 j 23:17	0° \mathbb{M}	
	-99 Feb 11 j 09:17	0° \approx		evening max el	-97 Jul 11 j 10:10	0° \mathbb{M} 26'08	45°50'53
	-99 Mar 07 j 16:16	0° \mathbb{K}		greatest brilliancy	-97 Aug 19 j 01:51	28° \mathbb{M} 40'32	-4.6m
morning set	-99 Mar 25 j 02:04	21° \mathbb{K} 27'18			-97 Aug 23 j 14:51	0° $\underline{\text{A}}$	
	-99 Apr 01 j 00:40	0° \mathbb{Y}		retrograde	-97 Aug 29 j 12:56	0° $\underline{\text{A}}$ 39'28	
	-99 Apr 25 j 10:19	0° \mathbb{B}			-97 Sep 04 j 07:32	30° \mathbb{M}	
				evening set	-97 Sep 16 j 00:21	24° \mathbb{M} 58'36	
superior conj	-99 May 01 j 06:36	7° \mathbb{B} 10'45	0°-29'-49	inferior conj	-97 Sep 19 j 10:40	22° \mathbb{M} 55'03	-8°-7'-51
minimum elong	-99 May 01 j 12:28	7° \mathbb{B} 28'47	0°29'33	minimum elong	-97 Sep 19 j 18:39	22° \mathbb{M} 42'51	8°06'51
max. Earth dist.	-99 May 01 j 17:54	7° \mathbb{B} 45'28	1.73594 AU	min. Earth dist.	-97 Sep 20 j 06:55	22° \mathbb{M} 24'08	0.27349 AU
asc. node	-99 May 14 j 03:13	22° \mathbb{B} 58'16		morning rise	-97 Sep 23 j 12:34	20° \mathbb{M} 27'56	
	-99 May 19 j 20:37	0° \mathbb{I}		direct	-97 Oct 10 j 07:12	15° \mathbb{M} 02'18	
evening rise	-99 Jun 06 j 12:56	21° \mathbb{I} 42'29		greatest brilliancy	-97 Oct 24 j 03:20	18° \mathbb{M} 32'03	-4.7m
	-99 Jun 13 j 06:57	0° \mathbb{S}		asc. node	-97 Oct 29 j 22:06	21° \mathbb{M} 43'01	
	-99 Jul 07 j 17:15	0° \mathbb{Q}			-97 Nov 10 j 06:28	0° $\underline{\text{A}}$	
	-99 Aug 01 j 04:22	0° \mathbb{M}		morning max el	-97 Nov 30 j 01:46	18° $\underline{\text{A}}$ 30'51	46°55'46
	-99 Aug 25 j 17:52	0° $\underline{\text{A}}$			-97 Dec 10 j 23:05	0° \mathbb{L}	
desc. node	-99 Sep 02 j 17:03	9° $\underline{\text{A}}$ 41'16			-96 Jan 06 j 13:01	0° \mathbb{Z}	
	-99 Sep 19 j 11:45	0° \mathbb{L}			-96 Jan 31 j 23:20	0° \mathbb{C}	
	-99 Oct 14 j 13:19	0° \mathbb{Z}		desc. node	-96 Feb 18 j 12:10	21° \mathbb{C} 00'51	
	-99 Nov 09 j 07:02	0° \mathbb{C}			-96 Feb 25 j 23:14	0° \approx	
evening max el	-99 Dec 06 j 13:06	29° \mathbb{C} 42'35	47°15'04		-96 Mar 21 j 18:43	0° \mathbb{K}	
	-99 Dec 06 j 19:56	0° \approx			-96 Apr 15 j 11:59	0° \mathbb{Y}	
asc. node	-99 Dec 24 j 19:53	16° \approx 58'52			-96 May 10 j 03:33	0° \mathbb{B}	
greatest brilliancy	-98 Jan 12 j 16:37	29° \approx 55'02	-4.6m	morning set	-96 Jun 01 j 04:59	26° \mathbb{B} 56'44	
	-98 Jan 12 j 20:48	0° \mathbb{K}			-96 Jun 03 j 16:50	0° \mathbb{I}	
retrograde	-98 Jan 26 j 11:06	3° \mathbb{K} 24'55		asc. node	-96 Jun 10 j 15:06	8° \mathbb{I} 29'34	
	-98 Feb 08 j 09:01	30° \approx			-96 Jun 28 j 02:57	0° \mathbb{S}	
evening set	-98 Feb 13 j 06:50	27° \approx 12'26		max. Earth dist.	-96 Jul 04 j 01:03	7° \mathbb{S} 18'08	1.73208 AU
min. Earth dist.	-98 Feb 15 j 19:57	25° \approx 36'37	0.28126 AU				
inferior conj	-98 Feb 16 j 12:11	25° \approx 10'52	8°38'28	superior conj	-96 Jul 07 j 10:55	11° \mathbb{S} 30'50	0°57'49
minimum elong	-98 Feb 16 j 11:37	25° \approx 11'46	8°38'28	minimum elong	-96 Jul 07 j 02:15	11° \mathbb{S} 04'03	0°57'30
morning rise	-98 Feb 19 j 16:40	23° \approx 11'21			-96 Jul 22 j 09:35	0° \mathbb{Q}	

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evening rise	-96 Aug 12 j 13:00	26°♈14'38		morning max el	-93 Feb 11 j 09:35	3°♁23'18	46°35'02
	-96 Aug 15 j 13:31	0°♎			-93 Mar 08 j 15:37	0°♁	
	-96 Sep 08 j 16:20	0°♊		desc. node	-93 Mar 17 j 23:57	10°♁23'20	
desc. node	-96 Sep 30 j 04:56	26°♊45'34			-93 Apr 04 j 05:33	0°♋	
	-96 Oct 02 j 19:32	0°♌			-93 Apr 29 j 23:33	0°♍	
	-96 Oct 27 j 00:22	0°♎			-93 May 25 j 06:41	0°♏	
	-96 Nov 20 j 08:28	0°♐			-93 Jun 19 j 05:39	0°♑	
	-96 Dec 14 j 23:52	0°♒		asc. node	-93 Jul 09 j 02:58	24°♑11'22	
	-95 Jan 09 j 07:43	0°♈			-93 Jul 13 j 20:56	0°♓	
asc. node	-95 Jan 21 j 07:46	13°♋41'36			-93 Aug 07 j 04:59	0°♈	
	-95 Feb 05 j 06:12	0°♍		morning set	-93 Aug 09 j 02:59	2°♈22'36	
evening max el	-95 Feb 15 j 16:17	10°♍40'43	46°05'06		-93 Aug 31 j 07:16	0°♎	
	-95 Mar 09 j 11:59	0°♏		max. Earth dist.	-93 Sep 12 j 13:48	15°♎21'28	1.71679 AU
greatest brilliancy	-95 Mar 22 j 08:10	8°♏04'27	-4.5m				
retrograde	-95 Apr 06 j 03:02	11°♏57'01		superior conj	-93 Sep 15 j 11:54	19°♎01'05	1°19'22
evening set	-95 Apr 21 j 21:14	7°♏08'03		minimum elong	-93 Sep 15 j 18:30	19°♎21'48	1°19'14
inferior conj	-95 Apr 27 j 13:44	3°♏40'37	3°28'44		-93 Sep 24 j 06:00	0°♊	
minimum elong	-95 Apr 27 j 20:43	3°♏29'37	3°26'52		-93 Oct 18 j 03:25	0°♌	
min. Earth dist.	-95 Apr 27 j 19:41	3°♏31'15	0.28992 AU	evening rise	-93 Oct 25 j 06:33	8°♌57'17	
	-95 May 03 j 15:13	30°♍		desc. node	-93 Oct 28 j 16:52	13°♌15'41	
morning rise	-95 May 03 j 20:11	29°♍53'04			-93 Nov 11 j 01:02	0°♎	
desc. node	-95 May 12 j 21:27	26°♍07'42			-93 Dec 04 j 23:59	0°♐	
direct	-95 May 19 j 03:33	25°♍21'05			-93 Dec 29 j 01:49	0°♒	
greatest brilliancy	-95 Jun 01 j 12:44	28°♍28'22	-4.5m		-92 Jan 22 j 09:26	0°♈	
	-95 Jun 04 j 17:25	0°♏			-92 Feb 16 j 03:40	0°♍	
morning max el	-95 Jul 06 j 23:34	25°♏06'59	45°48'42	asc. node	-92 Feb 18 j 19:37	3°♍10'58	
	-95 Jul 12 j 00:02	0°♑			-92 Mar 12 j 16:34	0°♏	
	-95 Aug 09 j 07:23	0°♓			-92 Apr 08 j 16:39	0°♑	
asc. node	-95 Sep 03 j 00:34	28°♓24'57		evening max el	-92 Apr 27 j 10:38	19°♑02'10	45°18'10
	-95 Sep 04 j 08:47	0°♈			-92 May 09 j 13:27	0°♓	
	-95 Sep 29 j 07:09	0°♎		greatest brilliancy	-92 Jun 01 j 08:48	15°♓19'35	-4.5m
	-95 Oct 23 j 14:36	0°♊		desc. node	-92 Jun 09 j 09:32	17°♓55'52	
	-95 Nov 16 j 14:47	0°♌		retrograde	-92 Jun 14 j 20:28	18°♓28'52	
	-95 Dec 10 j 12:37	0°♎		evening set	-92 Jun 30 j 13:04	13°♓48'39	
desc. node	-95 Dec 23 j 14:27	16°♎24'28		inferior conj	-92 Jul 06 j 06:02	10°♓23'38	-5°-46'-26
	-94 Jan 03 j 10:46	0°♐		minimum elong	-92 Jul 05 j 20:08	10°♓39'00	5°44'17
morning set	-94 Jan 07 j 11:15	5°♐02'04		min. Earth dist.	-92 Jul 06 j 09:14	10°♓18'40	0.28763 AU
	-94 Jan 27 j 10:29	0°♒		morning rise	-92 Jul 11 j 02:58	7°♓26'27	
				direct	-92 Jul 27 j 21:27	2°♓09'20	
superior conj	-94 Feb 17 j 08:44	26°♒04'21	-1°-25'-20	greatest brilliancy	-92 Aug 11 j 05:50	5°♓46'21	-4.5m
minimum elong	-94 Feb 17 j 08:12	26°♒02'42	1°25'22		-92 Sep 12 j 00:29	0°♈	
	-94 Feb 20 j 12:34	0°♋		morning max el	-92 Sep 15 j 15:37	3°♈32'54	46°23'39
max. Earth dist.	-94 Feb 21 j 04:05	0°♋48'10	1.72337 AU	asc. node	-92 Sep 30 j 12:26	19°♈00'27	
	-94 Mar 16 j 17:44	0°♍			-92 Oct 10 j 11:13	0°♎	
evening rise	-94 Mar 28 j 06:42	14°♍13'57			-92 Nov 05 j 06:05	0°♊	
	-94 Apr 10 j 02:32	0°♏			-92 Nov 30 j 00:29	0°♌	
asc. node	-94 Apr 15 j 17:25	6°♏53'34			-92 Dec 24 j 09:08	0°♎	
	-94 May 04 j 15:14	0°♑			-91 Jan 17 j 14:49	0°♐	
	-94 May 29 j 08:13	0°♓		desc. node	-91 Jan 20 j 02:19	3°♐04'11	
	-94 Jun 23 j 06:49	0°♈			-91 Feb 10 j 20:27	0°♒	
	-94 Jul 18 j 14:04	0°♎			-91 Mar 07 j 03:11	0°♈	
desc. node	-94 Aug 05 j 07:06	20°♎35'58		morning set	-91 Mar 22 j 18:04	19°♈15'41	
	-94 Aug 13 j 12:13	0°♊			-91 Mar 31 j 11:23	0°♍	
	-94 Sep 09 j 16:19	0°♌			-91 Apr 24 j 20:55	0°♏	
evening max el	-94 Sep 22 j 22:57	13°♌40'53	47°05'56				
	-94 Oct 10 j 15:10	0°♎		superior conj	-91 Apr 29 j 00:23	5°♏05'24	0°-32'-46
greatest brilliancy	-94 Oct 31 j 20:30	13°♎51'18	-4.7m	minimum elong	-91 Apr 29 j 06:46	5°♏25'00	0°32'30
retrograde	-94 Nov 12 j 11:25	16°♎23'12		max. Earth dist.	-91 Apr 29 j 15:09	5°♏50'46	1.73576 AU
asc. node	-94 Nov 26 j 10:00	12°♎28'15		asc. node	-91 May 13 j 05:23	22°♏32'20	
evening set	-94 Nov 26 j 18:23	12°♎17'07			-91 May 19 j 07:14	0°♑	
min. Earth dist.	-94 Dec 02 j 12:11	8°♎56'06	0.26404 AU	evening rise	-91 Jun 04 j 08:02	19°♑40'56	
inferior conj	-94 Dec 02 j 23:45	8°♎38'26	1°41'50		-91 Jun 12 j 17:41	0°♓	
minimum elong	-94 Dec 02 j 19:57	8°♎44'15	1°40'38		-91 Jul 07 j 04:13	0°♈	
morning rise	-94 Dec 08 j 21:54	5°♎10'48			-91 Jul 31 j 15:42	0°♎	
direct	-94 Dec 23 j 06:58	1°♎02'35			-91 Aug 25 j 05:45	0°♊	
greatest brilliancy	-93 Jan 03 j 15:59	3°♎28'59	-4.7m	desc. node	-91 Sep 01 j 19:02	9°♊10'29	
	-93 Feb 07 j 22:37	0°♐			-91 Sep 19 j 00:27	0°♌	

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	-91 Oct 14 j 03:18	0°♁				-88 Mar 21 j 06:30	0°♁	
	-91 Nov 08 j 23:23	0°♁				-88 Apr 14 j 23:19	0°♁	
evening max el	-91 Dec 04 j 03:22	27°♁19'59	47°16'28			-88 May 09 j 14:34	0°♁	
	-91 Dec 06 j 18:28	0°♁			morning set	-88 May 29 j 23:31	24°♁53'19	
asc. node	-91 Dec 23 j 22:02	15°♁52'31				-88 Jun 03 j 03:40	0°♁	
greatest brilliancy	-90 Jan 10 j 10:43	27°♁39'47	-4.6m		asc. node	-88 Jun 09 j 17:12	8°♁02'53	
	-90 Jan 16 j 12:48	0°♁				-88 Jun 27 j 13:44	0°♁	
retrograde	-90 Jan 24 j 02:04	1°♁06'39			max. Earth dist.	-88 Jul 02 j 00:01	5°♁27'38	1.73249 AU
	-90 Jan 31 j 09:39	30°♁						
evening set	-90 Feb 10 j 20:58	24°♁56'35			superior conj	-88 Jul 05 j 05:25	9°♁26'27	0°55'29
min. Earth dist.	-90 Feb 13 j 10:24	23°♁20'19	0.28063 AU		minimum elong	-88 Jul 04 j 20:50	8°♁59'57	0°55'10
inferior conj	-90 Feb 14 j 03:17	22°♁53'33	8°37'59			-88 Jul 21 j 20:25	0°♁	
minimum elong	-90 Feb 14 j 01:53	22°♁55'46	8°37'58		evening rise	-88 Aug 10 j 06:08	24°♁04'38	
morning rise	-90 Feb 17 j 07:04	20°♁55'01				-88 Aug 15 j 00:32	0°♁	
direct	-90 Mar 07 j 01:54	14°♁51'49				-88 Sep 08 j 03:35	0°♁	
greatest brilliancy	-90 Mar 17 j 22:53	17°♁01'27	-4.5m		desc. node	-88 Sep 29 j 07:02	26°♁16'15	
	-90 Apr 07 j 23:10	0°♁				-88 Oct 02 j 07:07	0°♁	
desc. node	-90 Apr 14 j 11:43	5°♁27'17				-88 Oct 26 j 12:19	0°♁	
morning max el	-90 Apr 25 j 01:31	15°♁10'18	45°54'31			-88 Nov 19 j 20:56	0°♁	
	-90 May 09 j 20:31	0°♁				-88 Dec 14 j 13:08	0°♁	
	-90 Jun 06 j 11:50	0°♁				-87 Jan 08 j 22:38	0°♁	
	-90 Jul 02 j 15:50	0°♁			asc. node	-87 Jan 20 j 09:43	13°♁01'39	
	-90 Jul 27 j 23:24	0°♁				-87 Feb 05 j 01:11	0°♁	
asc. node	-90 Aug 05 j 14:45	10°♁25'09			evening max el	-87 Feb 13 j 07:59	8°♁26'49	46°07'45
	-90 Aug 21 j 16:11	0°♁				-87 Mar 10 j 04:23	0°♁	
	-90 Sep 14 j 22:09	0°♁			greatest brilliancy	-87 Mar 20 j 00:23	5°♁54'16	-4.5m
	-90 Oct 08 j 21:19	0°♁			retrograde	-87 Apr 03 j 20:22	9°♁47'46	
morning set	-90 Oct 19 j 23:11	13°♁55'59			evening set	-87 Apr 19 j 15:57	4°♁55'25	
	-90 Nov 01 j 17:21	0°♁			inferior conj	-87 Apr 25 j 06:13	1°♁30'55	3°46'30
desc. node	-90 Nov 25 j 04:43	29°♁34'12			minimum elong	-87 Apr 25 j 13:40	1°♁19'11	3°44'34
	-90 Nov 25 j 12:54	0°♁			min. Earth dist.	-87 Apr 25 j 11:43	1°♁22'16	0.28985 AU
						-87 Apr 27 j 16:20	30°♁	
superior conj	-90 Nov 29 j 23:27	5°♁35'18	0°-11'-20		morning rise	-87 May 01 j 11:30	27°♁45'18	
minimum elong	-90 Nov 29 j 20:23	5°♁25'38	0°11'13		desc. node	-87 May 11 j 23:35	23°♁39'37	
behind sun begin	-90 Nov 29 j 00:38	4°♁23'30			direct	-87 May 16 j 20:03	23°♁11'33	
behind sun end	-90 Nov 30 j 16:07	6°♁27'46			greatest brilliancy	-87 May 30 j 03:33	26°♁17'42	-4.5m
max. Earth dist.	-90 Dec 01 j 21:13	7°♁59'18	1.71046 AU			-87 Jun 06 j 05:50	0°♁	
	-90 Dec 19 j 09:28	0°♁			morning max el	-87 Jul 04 j 16:34	22°♁59'30	45°48'09
evening rise	-89 Jan 10 j 17:38	28°♁00'07				-87 Jul 11 j 20:19	0°♁	
	-89 Jan 12 j 07:59	0°♁				-87 Aug 08 j 22:29	0°♁	
	-89 Feb 05 j 09:45	0°♁			asc. node	-87 Sep 02 j 02:42	27°♁52'11	
	-89 Mar 01 j 16:40	0°♁				-87 Sep 03 j 21:57	0°♁	
asc. node	-89 Mar 18 j 07:37	20°♁19'12				-87 Sep 28 j 19:27	0°♁	
	-89 Mar 26 j 07:04	0°♁				-87 Oct 23 j 02:28	0°♁	
	-89 Apr 20 j 07:48	0°♁				-87 Nov 16 j 02:25	0°♁	
	-89 May 15 j 23:35	0°♁				-87 Dec 10 j 00:04	0°♁	
	-89 Jun 11 j 17:15	0°♁			desc. node	-87 Dec 22 j 16:30	15°♁55'14	
desc. node	-89 Jul 07 j 21:19	27°♁04'10				-86 Jan 02 j 22:04	0°♁	
evening max el	-89 Jul 08 j 23:03	28°♁06'01	45°48'35		morning set	-86 Jan 04 j 21:03	2°♁27'06	
	-89 Jul 10 j 23:00	0°♁				-86 Jan 26 j 21:40	0°♁	
greatest brilliancy	-89 Aug 16 j 12:48	26°♁17'05	-4.6m					
retrograde	-89 Aug 27 j 01:52	28°♁17'54			superior conj	-86 Feb 14 j 21:22	23°♁39'48	-1°-25'-11
evening set	-89 Sep 13 j 15:51	22°♁32'40			minimum elong	-86 Feb 14 j 19:54	23°♁35'12	1°25'12
inferior conj	-89 Sep 16 j 23:55	20°♁32'31	-8°-15'-59		max. Earth dist.	-86 Feb 18 j 18:40	28°♁29'50	1.72284 AU
minimum elong	-89 Sep 17 j 07:16	20°♁21'20	8°15'11			-86 Feb 19 j 23:41	0°♁	
min. Earth dist.	-89 Sep 17 j 20:07	20°♁01'45	0.27417 AU			-86 Mar 16 j 04:50	0°♁	
morning rise	-89 Sep 20 j 22:20	18°♁10'39			evening rise	-86 Mar 25 j 22:01	11°♁59'12	
direct	-89 Oct 07 j 21:04	12°♁38'32				-86 Apr 09 j 13:40	0°♁	
greatest brilliancy	-89 Oct 21 j 19:54	16°♁11'32	-4.7m		asc. node	-86 Apr 14 j 19:35	6°♁25'59	
asc. node	-89 Oct 29 j 00:13	20°♁16'25				-86 May 04 j 02:32	0°♁	
	-89 Nov 10 j 16:59	0°♁				-86 May 28 j 19:53	0°♁	
morning max el	-89 Nov 27 j 16:05	16°♁06'59	46°55'31			-86 Jun 22 j 19:06	0°♁	
	-89 Dec 10 j 18:11	0°♁				-86 Jul 18 j 03:28	0°♁	
	-88 Jan 06 j 04:16	0°♁			desc. node	-86 Aug 04 j 09:06	19°♁59'42	
	-88 Jan 31 j 12:49	0°♁				-86 Aug 13 j 03:39	0°♁	
desc. node	-88 Feb 17 j 14:06	20°♁28'24				-86 Sep 09 j 12:14	0°♁	
	-88 Feb 25 j 11:42	0°♁			evening max el	-86 Sep 20 j 13:27	11°♁18'42	47°03'43

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-86 Oct 11 j 04:56	0°♁		morning set	-83 Mar 20 j 09:28	17°♁00'51	
greatest brilliancy	-86 Oct 29 j 10:38	11°♁22'34	-4.7m		-83 Mar 30 j 22:29	0°♁	
retrograde	-86 Nov 10 j 00:05	13°♁51'57			-83 Apr 24 j 07:54	0°♁	
evening set	-86 Nov 24 j 06:31	9°♁46'48					
asc. node	-86 Nov 25 j 12:08	9°♁06'08		superior conj	-83 Apr 26 j 17:46	2°♁57'42	0°-35'-43
min. Earth dist.	-86 Nov 30 j 01:30	6°♁23'48	0.26382 AU	minimum elong	-83 Apr 27 j 00:39	3°♁18'49	0°35'26
inferior conj	-86 Nov 30 j 11:48	6°♁08'04	1°17'33	max. Earth dist.	-83 Apr 27 j 10:56	3°♁50'23	1.73554 AU
minimum elong	-86 Nov 30 j 08:53	6°♁12'31	1°16'36	asc. node	-83 May 12 j 07:23	22°♁04'47	
morning rise	-86 Dec 06 j 11:41	2°♁38'14			-83 May 18 j 18:13	0°♁	
	-86 Dec 12 j 10:03	30°♁		evening rise	-83 Jun 02 j 02:55	17°♁37'39	
direct	-86 Dec 20 j 19:30	28°♁32'47			-83 Jun 12 j 04:48	0°♁	
	-86 Dec 29 j 11:40	0°♁			-83 Jul 06 j 15:34	0°♁	
greatest brilliancy	-85 Jan 01 j 04:54	0°♁59'46	-4.7m		-83 Jul 31 j 03:26	0°♁	
	-85 Feb 07 j 23:10	0°♁			-83 Aug 24 j 18:01	0°♁	
morning max el	-85 Feb 08 j 22:45	0°♁58'23	46°36'22	desc. node	-83 Aug 31 j 21:12	8°♁39'12	
	-85 Mar 08 j 08:34	0°♁			-83 Sep 18 j 13:31	0°♁	
desc. node	-85 Mar 17 j 02:08	9°♁45'14			-83 Oct 13 j 17:40	0°♁	
	-85 Apr 03 j 19:44	0°♁			-83 Nov 08 j 16:14	0°♁	
	-85 Apr 29 j 12:20	0°♁		evening max el	-83 Dec 01 j 16:59	24°♁55'07	47°17'45
	-85 May 24 j 18:40	0°♁			-83 Dec 06 j 18:14	0°♁	
	-85 Jun 18 j 17:07	0°♁		asc. node	-83 Dec 22 j 23:57	14°♁43'09	
asc. node	-85 Jul 08 j 04:57	23°♁43'04		greatest brilliancy	-82 Jan 08 j 03:46	25°♁21'56	-4.6m
	-85 Jul 13 j 08:07	0°♁		retrograde	-82 Jan 21 j 17:00	28°♁47'14	
	-85 Aug 06 j 16:03	0°♁		evening set	-82 Feb 08 j 10:35	22°♁39'48	
morning set	-85 Aug 06 j 19:45	0°♁11'28		min. Earth dist.	-82 Feb 11 j 00:49	21°♁02'32	0.28005 AU
	-85 Aug 30 j 18:19	0°♁		inferior conj	-82 Feb 11 j 18:18	20°♁34'51	8°36'38
max. Earth dist.	-85 Sep 09 j 23:35	12°♁47'08	1.71730 AU	minimum elong	-82 Feb 11 j 16:05	20°♁38'22	8°36'33
				morning rise	-82 Feb 14 j 21:49	18°♁36'47	
superior conj	-85 Sep 13 j 02:46	16°♁42'35	1°20'30	direct	-82 Mar 04 j 15:34	12°♁33'57	
minimum elong	-85 Sep 13 j 08:41	17°♁01'07	1°20'25	greatest brilliancy	-82 Mar 15 j 12:55	14°♁43'38	-4.5m
	-85 Sep 23 j 17:09	0°♁			-82 Apr 08 j 08:34	0°♁	
	-85 Oct 17 j 14:41	0°♁		desc. node	-82 Apr 13 j 13:50	4°♁29'26	
evening rise	-85 Oct 22 j 17:35	6°♁25'44		morning max el	-82 Apr 22 j 15:43	12°♁53'36	45°55'34
desc. node	-85 Oct 27 j 19:00	12°♁46'47			-82 May 09 j 14:52	0°♁	
	-85 Nov 10 j 12:27	0°♁			-82 Jun 06 j 02:21	0°♁	
	-85 Dec 04 j 11:36	0°♁			-82 Jul 02 j 04:41	0°♁	
	-85 Dec 28 j 13:39	0°♁			-82 Jul 27 j 11:25	0°♁	
	-84 Jan 21 j 21:37	0°♁		asc. node	-82 Aug 04 j 16:50	9°♁55'40	
	-84 Feb 15 j 16:31	0°♁			-82 Aug 21 j 03:45	0°♁	
asc. node	-84 Feb 17 j 21:43	2°♁38'39			-82 Sep 14 j 09:29	0°♁	
	-84 Mar 12 j 06:48	0°♁			-82 Oct 08 j 08:32	0°♁	
	-84 Apr 08 j 10:16	0°♁		morning set	-82 Oct 17 j 11:40	11°♁28'54	
evening max el	-84 Apr 25 j 01:44	16°♁48'59	45°18'30		-82 Nov 01 j 04:32	0°♁	
	-84 May 09 j 20:24	0°♁		desc. node	-82 Nov 24 j 06:44	29°♁05'22	
greatest brilliancy	-84 May 29 j 23:09	13°♁07'03	-4.5m		-82 Nov 25 j 00:05	0°♁	
desc. node	-84 Jun 08 j 11:33	15°♁59'48					
retrograde	-84 Jun 12 j 11:27	16°♁17'42		superior conj	-82 Nov 27 j 09:09	2°♁59'38	0°-7'-23
evening set	-84 Jun 28 j 02:23	11°♁40'40		minimum elong	-82 Nov 27 j 07:09	2°♁53'20	0°07'17
inferior conj	-84 Jul 03 j 21:50	8°♁12'12	-5°-31'00	behind sun begin	-82 Nov 26 j 06:56	1°♁37'07	
minimum elong	-84 Jul 03 j 12:05	8°♁27'23	5°28'48	behind sun end	-82 Nov 28 j 07:21	4°♁09'32	
min. Earth dist.	-84 Jul 04 j 01:15	8°♁06'54	0.28783 AU	max. Earth dist.	-82 Nov 29 j 02:15	5°♁09'01	1.71033 AU
morning rise	-84 Jul 08 j 21:27	5°♁10'47			-82 Dec 18 j 20:38	0°♁	
	-84 Jul 24 j 01:52	30°♁		evening rise	-81 Jan 08 j 04:19	25°♁28'30	
direct	-84 Jul 25 j 13:04	29°♁57'30			-81 Jan 11 j 19:09	0°♁	
	-84 Jul 27 j 00:30	0°♁			-81 Feb 04 j 20:59	0°♁	
greatest brilliancy	-84 Aug 08 j 20:59	3°♁32'57	-4.5m		-81 Mar 01 j 04:04	0°♁	
	-84 Sep 11 j 23:46	0°♁		asc. node	-81 Mar 17 j 09:45	19°♁50'20	
morning max el	-84 Sep 13 j 05:22	1°♁12'56	46°22'17		-81 Mar 25 j 18:49	0°♁	
asc. node	-84 Sep 29 j 14:34	18°♁17'36			-81 Apr 19 j 20:15	0°♁	
	-84 Oct 10 j 03:32	0°♁			-81 May 15 j 13:21	0°♁	
	-84 Nov 04 j 20:03	0°♁			-81 Jun 11 j 09:52	0°♁	
	-84 Nov 29 j 13:21	0°♁		evening max el	-81 Jul 06 j 12:49	25°♁47'45	45°46'24
	-84 Dec 23 j 21:24	0°♁		desc. node	-81 Jul 06 j 23:20	26°♁12'52	
	-83 Jan 17 j 02:41	0°♁			-81 Jul 11 j 00:05	0°♁	
desc. node	-83 Jan 19 j 04:18	2°♁33'43		greatest brilliancy	-81 Aug 13 j 22:52	23°♁52'33	-4.5m
	-83 Feb 10 j 08:01	0°♁		retrograde	-81 Aug 24 j 15:11	25°♁55'59	
	-83 Mar 06 j 14:30	0°♁		evening set	-81 Sep 11 j 07:07	20°♁06'46	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

inferior conj	-81 Sep 14 j 13:09	18°♍09'36	-8°-23'-20	max. Earth dist.	-78 Feb 16 j 10:41	26°≈16'38	1.72224 AU
minimum elong	-81 Sep 14 j 19:47	17°♍59'30	8°22'41		-78 Feb 19 j 10:33	0°♋	
min. Earth dist.	-81 Sep 15 j 08:54	17°♍39'32	0.27483 AU		-78 Mar 15 j 15:38	0°♍	
morning rise	-81 Sep 18 j 08:10	15°♍52'51		evening rise	-78 Mar 23 j 13:31	9°♍45'50	
direct	-81 Oct 05 j 11:24	10°♍14'31			-78 Apr 09 j 00:30	0°♌	
greatest brilliancy	-81 Oct 19 j 11:40	13°♍49'44	-4.6m	asc. node	-78 Apr 13 j 21:38	5°♌58'59	
asc. node	-81 Oct 28 j 02:16	18°♍52'14			-78 May 03 j 13:32	0°♌	
	-81 Nov 11 j 00:53	0°♌			-78 May 28 j 07:17	0°♌	
morning max el	-81 Nov 25 j 07:19	13°♌45'20	46°55'23		-78 Jun 22 j 07:12	0°♌	
	-81 Dec 10 j 12:52	0°♌			-78 Jul 17 j 16:44	0°♌	
	-80 Jan 05 j 19:18	0°♌		desc. node	-78 Aug 03 j 11:16	19°♌24'26	
	-80 Jan 31 j 02:10	0°♌			-78 Aug 12 j 19:03	0°♌	
desc. node	-80 Feb 16 j 16:18	19°♌57'03			-78 Sep 09 j 08:27	0°♌	
	-80 Feb 25 j 00:03	0°♌		evening max el	-78 Sep 18 j 03:30	8°♌56'13	47°01'26
	-80 Mar 20 j 18:13	0°♌			-78 Oct 11 j 22:40	0°♌	
	-80 Apr 14 j 10:36	0°♌		greatest brilliancy	-78 Oct 27 j 01:32	8°♌55'47	-4.7m
	-80 May 09 j 01:35	0°♌		retrograde	-78 Nov 07 j 12:10	11°♌21'42	
morning set	-80 May 27 j 18:00	22°♌49'43		evening set	-78 Nov 21 j 18:55	7°♌17'17	
	-80 Jun 02 j 14:32	0°♌		asc. node	-78 Nov 24 j 14:07	5°♌42'30	
asc. node	-80 Jun 08 j 19:12	7°♌35'49		inferior conj	-78 Nov 27 j 23:56	3°♌38'53	0°53'06
	-80 Jun 27 j 00:32	0°♌		minimum elong	-78 Nov 27 j 21:55	3°♌41'58	0°52'27
max. Earth dist.	-80 Jun 29 j 22:15	3°♌34'51	1.73287 AU	min. Earth dist.	-78 Nov 27 j 15:17	3°♌52'06	0.26365 AU
				morning rise	-78 Dec 04 j 01:16	0°♌06'53	
superior conj	-80 Jul 02 j 23:47	7°♌21'37	0°53'05		-78 Dec 04 j 06:29	30°♌	
minimum elong	-80 Jul 02 j 15:20	6°♌55'33	0°52'45	direct	-78 Dec 18 j 07:41	26°♌04'00	
	-80 Jul 21 j 07:16	0°♌		greatest brilliancy	-78 Dec 29 j 18:41	28°♌32'18	-4.7m
evening rise	-80 Aug 07 j 23:13	21°♌54'37			-77 Jan 01 j 23:36	0°♌	
	-80 Aug 14 j 11:32	0°♌		morning max el	-77 Feb 06 j 11:13	28°♌32'24	46°37'47
	-80 Sep 07 j 14:51	0°♌			-77 Feb 07 j 22:16	0°♌	
desc. node	-80 Sep 28 j 09:08	25°♌46'58			-77 Mar 08 j 00:52	0°♌	
	-80 Oct 01 j 18:42	0°♌		desc. node	-77 Mar 16 j 04:10	9°≈08'02	
	-80 Oct 26 j 00:17	0°♌			-77 Apr 03 j 09:24	0°♌	
	-80 Nov 19 j 09:24	0°♌			-77 Apr 29 j 00:39	0°♌	
	-80 Dec 14 j 02:25	0°♌			-77 May 24 j 06:10	0°♌	
	-79 Jan 08 j 13:32	0°♌			-77 Jun 18 j 04:10	0°♌	
asc. node	-79 Jan 19 j 11:53	12°♌22'39		asc. node	-77 Jul 07 j 07:05	23°♌16'26	
	-79 Feb 04 j 20:24	0°♌			-77 Jul 12 j 18:56	0°♌	
evening max el	-79 Feb 11 j 00:29	6°♌15'34	46°10'26	morning set	-77 Aug 04 j 12:36	28°♌01'40	
	-79 Mar 11 j 01:58	0°♌			-77 Aug 06 j 02:47	0°♌	
greatest brilliancy	-79 Mar 17 j 17:35	3°♌46'25	-4.5m		-77 Aug 30 j 05:05	0°♌	
retrograde	-79 Apr 01 j 13:42	7°♌39'35		max. Earth dist.	-77 Sep 07 j 09:59	10°♌15'44	1.71785 AU
evening set	-79 Apr 17 j 10:58	2°♌44'01					
	-79 Apr 21 j 23:03	30°♌		superior conj	-77 Sep 10 j 17:44	14°♌25'22	1°21'30
inferior conj	-79 Apr 22 j 22:56	29°♌22'24	4°03'54	minimum elong	-77 Sep 10 j 22:57	14°♌41'40	1°21'26
minimum elong	-79 Apr 23 j 06:48	29°♌10'00	4°01'53		-77 Sep 23 j 03:59	0°♌	
min. Earth dist.	-79 Apr 23 j 03:50	29°♌14'40	0.28978 AU		-77 Oct 17 j 01:38	0°♌	
morning rise	-79 Apr 29 j 02:50	25°♌38'45		evening rise	-77 Oct 20 j 04:39	3°♌55'22	
desc. node	-79 May 11 j 01:36	21°♌17'41		desc. node	-77 Oct 26 j 20:59	12°♌18'25	
direct	-79 May 14 j 13:02	21°♌03'19			-77 Nov 09 j 23:33	0°♌	
greatest brilliancy	-79 May 27 j 17:36	24°♌06'56	-4.5m		-77 Dec 03 j 22:52	0°♌	
	-79 Jun 07 j 07:06	0°♌			-77 Dec 28 j 01:11	0°≈	
morning max el	-79 Jul 02 j 09:29	20°♌52'20	45°47'26		-76 Jan 21 j 09:30	0°♌	
	-79 Jul 11 j 15:48	0°♌			-76 Feb 15 j 05:04	0°♌	
	-79 Aug 08 j 13:14	0°♌		asc. node	-76 Feb 16 j 23:52	2°♌07'25	
asc. node	-79 Sep 01 j 04:52	27°♌20'06			-76 Mar 11 j 20:46	0°♌	
	-79 Sep 03 j 10:53	0°♌			-76 Apr 08 j 03:45	0°♌	
	-79 Sep 28 j 07:32	0°♌		evening max el	-76 Apr 22 j 16:33	14°♌36'38	45°19'05
	-79 Oct 22 j 14:07	0°♌			-76 May 10 j 05:02	0°♌	
	-79 Nov 15 j 13:50	0°♌		greatest brilliancy	-76 May 27 j 12:30	10°♌55'20	-4.5m
	-79 Dec 09 j 11:20	0°♌		desc. node	-76 Jun 07 j 13:33	14°♌01'45	
desc. node	-79 Dec 21 j 18:30	15°♌26'26		retrograde	-76 Jun 10 j 02:55	14°♌09'11	
morning set	-78 Jan 02 j 06:54	29°♌52'53		evening set	-76 Jun 25 j 16:11	9°♌34'39	
	-78 Jan 02 j 09:11	0°♌		inferior conj	-76 Jul 01 j 13:57	6°♌03'11	-5°-15'-16
	-78 Jan 26 j 08:39	0°≈		minimum elong	-76 Jul 01 j 04:24	6°♌18'02	5°13'02
				min. Earth dist.	-76 Jul 01 j 17:35	5°♌57'33	0.28806 AU
superior conj	-78 Feb 12 j 10:07	21°≈16'13	-1°-24'-53	morning rise	-76 Jul 06 j 16:13	2°♌57'47	
minimum elong	-78 Feb 12 j 07:40	21°≈08'36	1°24'53		-76 Jul 12 j 14:32	30°♌	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

direct	-76 Jul 23 j 04:49	27°♁47'53		evening rise	-73 Jan 05 j 14:26	22°♁55'36	
	-76 Aug 03 j 07:08	0°♁			-73 Jan 11 j 06:10	0°≈	
greatest brilliancy	-76 Aug 06 j 13:32	1°♁23'20	-4.5m		-73 Feb 04 j 08:03	0°✕	
morning max el	-76 Sep 10 j 19:52	28°♁56'09	46°20'44		-73 Feb 28 j 15:18	0°♃	
	-76 Sep 11 j 21:37	0°♁		asc. node	-73 Mar 16 j 11:47	19°♃21'45	
asc. node	-76 Sep 28 j 16:34	17°♁36'00			-73 Mar 25 j 06:25	0°♄	
	-76 Oct 09 j 19:14	0°♁			-73 Apr 19 j 08:32	0°♁	
	-76 Nov 04 j 09:37	0°♁			-73 May 15 j 02:59	0°♁	
	-76 Nov 29 j 01:52	0°♁			-73 Jun 11 j 02:28	0°♁	
	-76 Dec 23 j 09:18	0°♁		evening max el	-73 Jul 04 j 03:40	23°♁33'18	45°44'24
	-75 Jan 16 j 14:10	0°♁		desc. node	-73 Jul 06 j 01:33	25°♁22'14	
desc. node	-75 Jan 18 j 06:31	2°♁05'03			-73 Jul 11 j 02:01	0°♁	
	-75 Feb 09 j 19:12	0°≈		greatest brilliancy	-73 Aug 11 j 09:13	21°♁30'23	-4.5m
	-75 Mar 06 j 01:26	0°✕		retrograde	-73 Aug 22 j 04:45	23°♁36'11	
morning set	-75 Mar 18 j 00:45	14°✕46'38		evening set	-73 Sep 08 j 22:30	17°♁43'38	
	-75 Mar 30 j 09:14	0°♃		inferior conj	-73 Sep 12 j 02:44	15°♁48'57	-8°-29'-42
	-75 Apr 23 j 18:32	0°♄		minimum elong	-73 Sep 12 j 08:38	15°♁39'56	8°29'12
				min. Earth dist.	-73 Sep 12 j 21:44	15°♁20'00	0.27548 AU
superior conj	-75 Apr 24 j 11:21	0°♄51'40	0°-38'-37	morning rise	-73 Sep 15 j 18:31	13°♁36'52	
minimum elong	-75 Apr 24 j 18:41	1°♄14'11	0°38'18	direct	-73 Oct 03 j 02:25	7°♁53'04	
max. Earth dist.	-75 Apr 25 j 05:41	1°♄48'00	1.73529 AU	greatest brilliancy	-73 Oct 17 j 02:30	11°♁28'34	-4.6m
asc. node	-75 May 11 j 09:27	21°♄38'34		asc. node	-73 Oct 27 j 04:20	17°♁32'20	
	-75 May 18 j 04:49	0°♁			-73 Nov 11 j 06:02	0°♁	
evening rise	-75 May 30 j 22:07	15°♁36'42		morning max el	-73 Nov 22 j 22:27	11°♁24'32	46°54'46
	-75 Jun 11 j 15:29	0°♁			-73 Dec 10 j 06:51	0°♁	
	-75 Jul 06 j 02:30	0°♁			-72 Jan 05 j 10:02	0°♁	
	-75 Jul 30 j 14:45	0°♁			-72 Jan 30 j 15:20	0°♁	
	-75 Aug 24 j 05:57	0°♁		desc. node	-72 Feb 15 j 18:22	19°♁25'31	
desc. node	-75 Aug 30 j 23:15	8°♁08'38			-72 Feb 24 j 12:17	0°≈	
	-75 Sep 18 j 02:20	0°♁			-72 Mar 20 j 05:49	0°✕	
	-75 Oct 13 j 07:54	0°♁			-72 Apr 13 j 21:47	0°♃	
	-75 Nov 08 j 09:09	0°♁			-72 May 08 j 12:29	0°♄	
evening max el	-75 Nov 29 j 07:01	22°♁31'56	47°19'04	morning set	-72 May 25 j 12:22	20°♄46'06	
	-75 Dec 06 j 18:52	0°≈			-72 Jun 02 j 01:16	0°♁	
asc. node	-75 Dec 22 j 02:08	13°≈33'02		asc. node	-72 Jun 07 j 21:21	7°♁09'30	
greatest brilliancy	-74 Jan 05 j 19:46	23°≈03'08	-4.6m		-72 Jun 26 j 11:13	0°♁	
retrograde	-74 Jan 19 j 08:14	26°≈28'12		max. Earth dist.	-72 Jun 27 j 18:49	1°♁37'21	1.73319 AU
evening set	-74 Feb 05 j 23:40	20°≈23'43					
min. Earth dist.	-74 Feb 08 j 14:55	18°≈45'12	0.27946 AU	superior conj	-72 Jun 30 j 18:13	5°♁17'27	0°50'37
inferior conj	-74 Feb 09 j 09:09	18°≈16'23	8°34'21	minimum elong	-72 Jun 30 j 09:57	4°♁51'56	0°50'17
minimum elong	-74 Feb 09 j 06:08	18°≈21'09	8°34'13		-72 Jul 20 j 17:59	0°♁	
morning rise	-74 Feb 12 j 12:49	16°≈18'19		evening rise	-72 Aug 05 j 16:36	19°♁45'57	
direct	-74 Mar 02 j 05:11	10°≈16'14			-72 Aug 13 j 22:24	0°♁	
greatest brilliancy	-74 Mar 13 j 02:45	12°≈26'12	-4.5m		-72 Sep 07 j 01:57	0°♁	
	-74 Apr 08 j 15:03	0°✕		desc. node	-72 Sep 27 j 11:08	25°♁17'57	
desc. node	-74 Apr 12 j 15:52	3°✕33'31			-72 Oct 01 j 06:07	0°♁	
morning max el	-74 Apr 20 j 06:48	10°✕39'53	45°56'45		-72 Oct 25 j 12:06	0°♁	
	-74 May 09 j 08:25	0°♃			-72 Nov 18 j 21:47	0°♁	
	-74 Jun 05 j 16:21	0°♄			-72 Dec 13 j 15:45	0°≈	
	-74 Jul 01 j 17:06	0°♁			-71 Jan 08 j 04:42	0°✕	
	-74 Jul 26 j 23:00	0°♁		asc. node	-71 Jan 18 j 14:00	11°✕42'47	
asc. node	-74 Aug 03 j 19:02	9°♁27'48			-71 Feb 04 j 16:23	0°♃	
	-74 Aug 20 j 14:55	0°♁		evening max el	-71 Feb 08 j 16:42	4°♃02'53	46°13'00
greatest brilliancy	-74 Sep 08 j 20:07	23°♁45'35	-3.9m		-71 Mar 12 j 08:42	0°♄	
	-74 Sep 13 j 20:27	0°♁		greatest brilliancy	-71 Mar 15 j 11:42	1°♄38'43	-4.5m
	-74 Oct 07 j 19:27	0°♁		retrograde	-71 Mar 30 j 06:19	5°♄29'56	
morning set	-74 Oct 15 j 00:19	9°♁03'21		evening set	-71 Apr 15 j 05:50	0°♄31'15	
	-74 Oct 31 j 15:28	0°♁			-71 Apr 16 j 03:14	30°♃	
desc. node	-74 Nov 23 j 08:49	28°♁37'23		inferior conj	-71 Apr 20 j 15:21	27°♃12'40	4°21'08
	-74 Nov 24 j 11:04	0°♁		minimum elong	-71 Apr 20 j 23:36	26°♃59'39	4°19'03
				min. Earth dist.	-71 Apr 20 j 19:53	27°♃05'31	0.28967 AU
superior conj	-74 Nov 24 j 18:31	0°♁23'28	0°-3'-21	morning rise	-71 Apr 26 j 17:38	23°♃31'02	
minimum elong	-74 Nov 24 j 17:36	0°♁20'36	0°03'19	desc. node	-71 May 10 j 03:40	18°♃59'06	
behind sun begin	-74 Nov 23 j 15:19	28°♁57'51		direct	-71 May 12 j 05:35	18°♃54'00	
behind sun end	-74 Nov 25 j 19:53	1°♁43'21		greatest brilliancy	-71 May 25 j 06:33	21°♃53'56	-4.5m
max. Earth dist.	-74 Nov 26 j 08:56	2°♁24'25	1.71027 AU		-71 Jun 08 j 01:58	0°♄	
	-74 Dec 18 j 07:38	0°♁		morning max el	-71 Jun 30 j 01:21	18°♄42'23	45°46'52

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-71 Jul 11 j 10:50	0°♁			-68 Feb 14 j 17:52	0°♁		
	-71 Aug 08 j 03:50	0°♁		asc. node	-68 Feb 16 j 01:50	1°♁35'02		
asc. node	-71 Aug 31 j 06:47	26°♁47'25			-68 Mar 11 j 11:07	0°♁		
	-71 Sep 02 j 23:45	0°♁			-68 Apr 07 j 22:02	0°♁		
	-71 Sep 27 j 19:34	0°♁		evening max el	-68 Apr 20 j 07:22	12°♁23'15	45°19'37	
	-71 Oct 22 j 01:43	0°♁			-68 May 10 j 17:32	0°♁		
	-71 Nov 15 j 01:11	0°♁		greatest brilliancy	-68 May 25 j 01:06	8°♁41'13	-4.5m	
	-71 Dec 08 j 22:31	0°♁		desc. node	-68 Jun 06 j 15:45	11°♁57'38		
desc. node	-71 Dec 20 j 20:41	14°♁58'18		retrograde	-68 Jun 07 j 18:40	11°♁59'05		
morning set	-71 Dec 30 j 16:52	27°♁18'59		evening set	-68 Jun 23 j 05:55	7°♁26'40		
	-70 Jan 01 j 20:15	0°♁		inferior conj	-68 Jun 29 j 05:52	3°♁52'27	-4°-58'-50	
	-70 Jan 25 j 19:39	0°♁		minimum elong	-68 Jun 28 j 20:34	4°♁06'52	4°56'37	
				min. Earth dist.	-68 Jun 29 j 09:31	3°♁46'47	0.28828 AU	
superior conj	-70 Feb 09 j 22:32	18°♁51'20	-1°-24'-24	morning rise	-68 Jul 04 j 10:49	0°♁43'19		
minimum elong	-70 Feb 09 j 19:08	18°♁40'44	1°24'24		-68 Jul 05 j 17:48	30°♁		
max. Earth dist.	-70 Feb 14 j 02:02	24°♁00'59	1.72170 AU	direct	-68 Jul 20 j 20:31	25°♁36'32		
	-70 Feb 18 j 21:30	0°♁		greatest brilliancy	-68 Aug 04 j 06:37	29°♁13'12	-4.5m	
	-70 Mar 15 j 02:34	0°♁			-68 Aug 05 j 20:51	0°♁		
evening rise	-70 Mar 21 j 04:23	7°♁29'59		morning max el	-68 Sep 08 j 11:01	26°♁40'09	46°19'17	
	-70 Apr 08 j 11:30	0°♁			-68 Sep 11 j 19:05	0°♁		
asc. node	-70 Apr 12 j 23:39	5°♁31'23		asc. node	-68 Sep 27 j 18:43	16°♁54'15		
	-70 May 03 j 00:44	0°♁			-68 Oct 09 j 11:01	0°♁		
	-70 May 27 j 18:52	0°♁			-68 Nov 03 j 23:20	0°♁		
	-70 Jun 21 j 19:31	0°♁			-68 Nov 28 j 14:35	0°♁		
	-70 Jul 17 j 06:17	0°♁			-68 Dec 22 j 21:26	0°♁		
desc. node	-70 Aug 02 j 13:18	18°♁48'03			-67 Jan 16 j 01:54	0°♁		
	-70 Aug 12 j 10:51	0°♁		desc. node	-67 Jan 17 j 08:31	1°♁34'58		
	-70 Sep 09 j 05:27	0°♁			-67 Feb 09 j 06:36	0°♁		
evening max el	-70 Sep 15 j 16:47	6°♁31'37	46°59'13		-67 Mar 05 j 12:34	0°♁		
	-70 Oct 12 j 22:31	0°♁		morning set	-67 Mar 15 j 16:08	12°♁31'54		
greatest brilliancy	-70 Oct 24 j 16:59	6°♁29'46	-4.7m		-67 Mar 29 j 20:12	0°♁		
retrograde	-70 Nov 04 j 23:56	8°♁52'02						
evening set	-70 Nov 19 j 07:42	4°♁47'46		superior conj	-67 Apr 22 j 04:54	28°♁44'40	0°-41'-27	
asc. node	-70 Nov 23 j 16:15	2°♁17'21		minimum elong	-67 Apr 22 j 12:39	29°♁08'29	0°41'08	
min. Earth dist.	-70 Nov 25 j 05:30	1°♁20'37	0.26349 AU	max. Earth dist.	-67 Apr 23 j 01:28	29°♁47'50	1.73511 AU	
inferior conj	-70 Nov 25 j 12:15	1°♁10'18	0°28'36		-67 Apr 23 j 05:25	0°♁		
minimum elong	-70 Nov 25 j 11:09	1°♁11'58	0°28'15	asc. node	-67 May 10 j 11:36	21°♁11'40		
	-70 Nov 27 j 10:27	30°♁			-67 May 17 j 15:45	0°♁		
morning rise	-70 Dec 01 j 14:49	27°♁36'22		evening rise	-67 May 28 j 17:11	13°♁34'19		
direct	-70 Dec 15 j 19:32	23°♁35'33			-67 Jun 11 j 02:33	0°♁		
greatest brilliancy	-70 Dec 27 j 09:23	26°♁06'11	-4.7m		-67 Jul 05 j 13:49	0°♁		
	-69 Jan 03 j 22:53	0°♁			-67 Jul 30 j 02:29	0°♁		
morning max el	-69 Feb 03 j 23:21	26°♁05'17	46°39'03		-67 Aug 23 j 18:17	0°♁		
	-69 Feb 07 j 20:28	0°♁		desc. node	-67 Aug 30 j 01:14	7°♁36'41		
	-69 Mar 07 j 16:59	0°♁			-67 Sep 17 j 15:36	0°♁		
desc. node	-69 Mar 15 j 06:11	8°♁30'40			-67 Oct 12 j 22:39	0°♁		
	-69 Apr 02 j 23:09	0°♁			-67 Nov 08 j 02:48	0°♁		
	-69 Apr 28 j 13:10	0°♁		evening max el	-67 Nov 26 j 22:03	20°♁10'20	47°20'20	
	-69 May 23 j 17:57	0°♁			-67 Dec 06 j 21:14	0°♁		
	-69 Jun 17 j 15:29	0°♁		asc. node	-67 Dec 21 j 04:16	12°♁19'42		
asc. node	-69 Jul 06 j 09:12	22°♁48'56		greatest brilliancy	-66 Jan 03 j 11:10	20°♁42'26	-4.7m	
	-69 Jul 12 j 05:59	0°♁		retrograde	-66 Jan 16 j 23:52	24°♁07'55		
morning set	-69 Aug 02 j 05:13	25°♁50'30		evening set	-66 Feb 03 j 12:20	18°♁06'53		
	-69 Aug 05 j 13:45	0°♁		min. Earth dist.	-66 Feb 06 j 04:37	16°♁27'05	0.27882 AU	
	-69 Aug 29 j 16:05	0°♁		inferior conj	-66 Feb 06 j 23:55	15°♁56'40	8°31'08	
max. Earth dist.	-69 Sep 04 j 22:54	7°♁51'30	1.71841 AU	minimum elong	-66 Feb 06 j 20:07	16°♁02'39	8°30'56	
				morning rise	-66 Feb 10 j 04:08	13°♁58'05		
superior conj	-69 Sep 08 j 08:40	12°♁07'23	1°22'22	direct	-66 Feb 27 j 19:12	7°♁57'27		
minimum elong	-69 Sep 08 j 13:07	12°♁21'19	1°22'19	greatest brilliancy	-66 Mar 10 j 15:42	10°♁06'58	-4.6m	
	-69 Sep 22 j 15:04	0°♁			-66 Apr 08 j 19:45	0°♁		
	-69 Oct 16 j 12:49	0°♁		desc. node	-66 Apr 11 j 17:57	2°♁38'20		
evening rise	-69 Oct 17 j 15:54	1°♁24'57		morning max el	-66 Apr 17 j 22:26	8°♁26'52	45°57'54	
desc. node	-69 Oct 25 j 23:04	11°♁49'39			-66 May 09 j 01:50	0°♁		
	-69 Nov 09 j 10:53	0°♁			-66 Jun 05 j 06:30	0°♁		
	-69 Dec 03 j 10:21	0°♁			-66 Jul 01 j 05:48	0°♁		
	-69 Dec 27 j 12:53	0°♁			-66 Jul 26 j 10:57	0°♁		
	-68 Jan 20 j 21:34	0°♁		asc. node	-66 Aug 02 j 20:58	8°♁57'57		

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-66 Aug 20 j 02:27	0°♋		evening max el	-63 Feb 06 j 08:09	1°♃47'31	46°15'36
greatest brilliancy	-66 Sep 13 j 08:09	0°♌01'10	-3.9m	greatest brilliancy	-63 Mar 13 j 06:13	29°♃31'01	-4.5m
	-66 Sep 13 j 07:46	0°♌			-63 Mar 14 j 06:43	0°♃	
	-66 Oct 07 j 06:42	0°♌		retrograde	-63 Mar 27 j 22:41	3°♃20'09	
morning set	-66 Oct 12 j 12:56	6°♌36'43			-63 Apr 09 j 21:35	30°♃	
	-66 Oct 31 j 02:43	0°♌		evening set	-63 Apr 13 j 00:54	28°♃18'18	
				inferior conj	-63 Apr 18 j 07:58	25°♃02'59	4°37'52
superior conj	-66 Nov 22 j 03:49	27°♌46'07	0°00'43	minimum elong	-63 Apr 18 j 16:32	24°♃49'25	4°35'46
minimum elong	-66 Nov 22 j 04:00	27°♌46'42	0°00'42	min. Earth dist.	-63 Apr 18 j 12:23	24°♃55'59	0.28951 AU
behind sun begin	-66 Nov 21 j 01:26	26°♌23'03		morning rise	-63 Apr 24 j 08:25	21°♃23'29	
behind sun end	-66 Nov 23 j 06:34	29°♌10'20		desc. node	-63 May 09 j 05:48	16°♃45'16	
desc. node	-66 Nov 22 j 10:56	28°♌08'34		direct	-63 May 09 j 21:53	16°♃44'44	
max. Earth dist.	-66 Nov 23 j 17:38	29°♌45'12	1.71020 AU	greatest brilliancy	-63 May 22 j 19:59	19°♃41'23	-4.5m
	-66 Nov 23 j 22:20	0°♍			-63 Jun 08 j 16:04	0°♃	
	-66 Dec 17 j 18:56	0°♍		morning max el	-63 Jun 27 j 16:30	16°♃30'31	45°46'25
evening rise	-65 Jan 03 j 00:30	20°♍21'29			-63 Jul 11 j 05:22	0°♌	
	-65 Jan 10 j 17:29	0°♍			-63 Aug 07 j 18:19	0°♌	
	-65 Feb 03 j 19:25	0°♍		asc. node	-63 Aug 30 j 08:57	26°♌15'16	
	-65 Feb 28 j 02:49	0°♍			-63 Sep 02 j 12:37	0°♌	
asc. node	-65 Mar 15 j 13:52	18°♍52'32			-63 Sep 27 j 07:42	0°♌	
	-65 Mar 24 j 18:17	0°♍			-63 Oct 21 j 13:29	0°♌	
	-65 Apr 18 j 21:06	0°♍			-63 Nov 14 j 12:44	0°♌	
	-65 May 14 j 17:00	0°♍			-63 Dec 08 j 09:55	0°♍	
	-65 Jun 10 j 19:43	0°♍		desc. node	-63 Dec 19 j 22:43	14°♍29'03	
evening max el	-65 Jul 01 j 18:39	21°♍18'08	45°42'08	morning set	-63 Dec 28 j 02:25	24°♍43'03	
desc. node	-65 Jul 05 j 03:32	24°♍28'53			-62 Jan 01 j 07:31	0°♍	
	-65 Jul 11 j 06:01	0°♍			-62 Jan 25 j 06:49	0°♍	
greatest brilliancy	-65 Aug 08 j 20:21	19°♍07'48	-4.5m				
retrograde	-65 Aug 19 j 17:49	21°♍14'49		superior conj	-62 Feb 07 j 10:41	16°♍25'07	-1°-23'-46
evening set	-65 Sep 06 j 13:29	15°♍19'43		minimum elong	-62 Feb 07 j 06:21	16°♍11'37	1°23'45
inferior conj	-65 Sep 09 j 16:13	13°♍26'56	-8°-35'-5	max. Earth dist.	-62 Feb 11 j 16:14	21°♍41'17	1.72110 AU
minimum elong	-65 Sep 09 j 21:20	13°♍19'06	8°34'43		-62 Feb 18 j 08:35	0°♍	
min. Earth dist.	-65 Sep 10 j 10:35	12°♍58'53	0.27611 AU		-62 Mar 14 j 13:37	0°♍	
morning rise	-65 Sep 13 j 04:59	11°♍19'04		evening rise	-62 Mar 18 j 19:07	5°♍13'18	
direct	-65 Sep 30 j 17:16	5°♍30'22			-62 Apr 07 j 22:35	0°♍	
greatest brilliancy	-65 Oct 14 j 16:46	9°♍05'14	-4.6m	asc. node	-62 Apr 12 j 01:50	5°♍04'04	
asc. node	-65 Oct 26 j 06:28	16°♍13'41			-62 May 02 j 12:00	0°♍	
	-65 Nov 11 j 09:55	0°♍			-62 May 27 j 06:32	0°♍	
morning max el	-65 Nov 20 j 12:32	8°♍59'51	46°54'13		-62 Jun 21 j 07:53	0°♍	
	-65 Dec 10 j 00:48	0°♍			-62 Jul 16 j 19:53	0°♍	
	-64 Jan 05 j 00:53	0°♍		desc. node	-62 Aug 01 j 15:19	18°♍11'32	
	-64 Jan 30 j 04:40	0°♍			-62 Aug 12 j 02:50	0°♍	
desc. node	-64 Feb 14 j 20:19	18°♍53'02			-62 Sep 09 j 03:13	0°♍	
	-64 Feb 24 j 00:42	0°♍		evening max el	-62 Sep 13 j 04:55	4°♍04'16	46°56'41
	-64 Mar 19 j 17:38	0°♍			-62 Oct 14 j 07:54	0°♍	
	-64 Apr 13 j 09:10	0°♍		greatest brilliancy	-62 Oct 22 j 07:43	4°♍02'08	-4.7m
	-64 May 07 j 23:35	0°♍		retrograde	-62 Nov 02 j 11:23	6°♍21'28	
morning set	-64 May 23 j 07:05	18°♍43'03		evening set	-62 Nov 16 j 20:22	2°♍16'34	
	-64 Jun 01 j 12:11	0°♍			-62 Nov 20 j 19:59	30°♍	
asc. node	-64 Jun 06 j 23:26	6°♍42'29		min. Earth dist.	-62 Nov 22 j 19:38	28°♍47'40	0.26345 AU
max. Earth dist.	-64 Jun 25 j 15:00	29°♍38'15	1.73354 AU	inferior conj	-62 Nov 23 j 00:18	28°♍40'32	0°03'53
	-64 Jun 25 j 22:04	0°♍		minimum elong	-62 Nov 23 j 00:09	28°♍40'45	0°03'50
				transit begin	-62 Nov 22 j 20:11	28°♍46'48	
superior conj	-64 Jun 28 j 12:59	3°♍13'50	0°48'05	transit end	-62 Nov 23 j 04:07	28°♍34'42	
minimum elong	-64 Jun 28 j 04:56	2°♍49'02	0°47'46	asc. node	-62 Nov 22 j 18:21	28°♍49'37	
	-64 Jul 20 j 04:56	0°♍		morning rise	-62 Nov 29 j 03:58	25°♍05'03	
evening rise	-64 Aug 03 j 10:13	17°♍37'22		direct	-62 Dec 13 j 07:03	21°♍05'28	
	-64 Aug 13 j 09:33	0°♍		greatest brilliancy	-62 Dec 25 j 01:01	23°♍40'02	-4.7m
	-64 Sep 06 j 13:23	0°♍			-61 Jan 05 j 07:25	0°♍	
desc. node	-64 Sep 26 j 13:16	24°♍48'18		morning max el	-61 Feb 01 j 11:45	23°♍37'55	46°40'29
	-64 Sep 30 j 17:53	0°♍			-61 Feb 07 j 18:05	0°♍	
	-64 Oct 25 j 00:16	0°♍			-61 Mar 07 j 08:59	0°♍	
	-64 Nov 18 j 10:32	0°♍		desc. node	-61 Mar 14 j 08:22	7°♍53'47	
	-64 Dec 13 j 05:26	0°♍			-61 Apr 02 j 12:49	0°♍	
	-63 Jan 07 j 20:19	0°♍			-61 Apr 28 j 01:35	0°♍	
asc. node	-63 Jan 17 j 15:57	11°♍01'27			-61 May 23 j 05:36	0°♍	
	-63 Feb 04 j 13:16	0°♍			-61 Jun 17 j 02:41	0°♍	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

asc. node	-61 Jul 05 j 11:11	22°♊21'19		greatest brilliancy	-58 Jan 01 j 02:36	18°♊22'26	-4.7m
	-61 Jul 11 j 16:56	0°♋		retrograde	-58 Jan 14 j 15:28	21°♊47'43	
morning set	-61 Jul 30 j 22:21	23°♋41'20		evening set	-58 Feb 01 j 00:31	15°♊50'40	
	-61 Aug 05 j 00:36	0°♌		min. Earth dist.	-58 Feb 03 j 17:57	14°♊09'18	0.27821 AU
	-61 Aug 29 j 02:56	0°♍		inferior conj	-58 Feb 04 j 14:29	13°♊36'58	8°27'03
max. Earth dist.	-61 Sep 02 j 15:09	5°♍38'15	1.71896 AU	minimum elong	-58 Feb 04 j 09:55	13°♊44'10	8°26'44
				morning rise	-58 Feb 07 j 19:36	11°♊37'18	
superior conj	-61 Sep 06 j 00:10	9°♍51'40	1°23'04	direct	-58 Feb 25 j 09:37	5°♋38'51	
minimum elong	-61 Sep 06 j 03:52	10°♍03'13	1°23'03	greatest brilliancy	-58 Mar 08 j 03:59	7°♋47'04	-4.6m
	-61 Sep 22 j 02:00	0°♎			-58 Apr 08 j 22:36	0°♋	
evening rise	-61 Oct 15 j 03:42	28°♎56'41		desc. node	-58 Apr 10 j 20:04	1°♋44'37	
	-61 Oct 15 j 23:54	0°♏		morning max el	-58 Apr 15 j 14:04	6°♋14'09	45°59'00
desc. node	-61 Oct 25 j 01:13	11°♏21'25			-58 May 08 j 18:43	0°♌	
	-61 Nov 08 j 22:08	0°♐			-58 Jun 04 j 20:17	0°♍	
	-61 Dec 02 j 21:50	0°♑			-58 Jun 30 j 18:08	0°♎	
	-61 Dec 27 j 00:37	0°♒			-58 Jul 25 j 22:31	0°♏	
	-60 Jan 20 j 09:41	0°♓		asc. node	-58 Aug 01 j 23:05	8°♏29'46	
	-60 Feb 14 j 06:44	0°♈			-58 Aug 19 j 13:37	0°♐	
asc. node	-60 Feb 15 j 03:57	1°♈03'01			-58 Sep 12 j 18:44	0°♑	
	-60 Mar 11 j 01:36	0°♉		greatest brilliancy	-58 Sep 16 j 05:52	4°♑19'19	-3.9m
	-60 Apr 07 j 16:41	0°♊			-58 Oct 06 j 17:35	0°♒	
evening max el	-60 Apr 17 j 22:44	10°♊11'39	45°20'28	morning set	-58 Oct 10 j 02:01	4°♒12'42	
	-60 May 11 j 09:57	0°♋			-58 Oct 30 j 13:37	0°♓	
greatest brilliancy	-60 May 22 j 13:47	6°♋28'04	-4.5m				
retrograde	-60 Jun 05 j 11:02	9°♋49'58		superior conj	-58 Nov 19 j 13:45	25°♌12'00	0°04'43
desc. node	-60 Jun 05 j 17:44	9°♋49'53		minimum elong	-58 Nov 19 j 15:00	25°♌15'58	0°04'39
evening set	-60 Jun 20 j 20:00	5°♌19'28		behind sun begin	-58 Nov 18 j 13:18	23°♌55'02	
inferior conj	-60 Jun 26 j 21:54	1°♌42'36	-4°-42'-8	behind sun end	-58 Nov 20 j 16:42	26°♌36'52	
minimum elong	-60 Jun 26 j 12:54	1°♌56'32	4°39'56	max. Earth dist.	-58 Nov 21 j 01:52	27°♌05'43	1.71010 AU
min. Earth dist.	-60 Jun 27 j 01:15	1°♌37'25	0.28846 AU	desc. node	-58 Nov 21 j 12:57	27°♌40'37	
	-60 Jun 29 j 16:30	30°♌			-58 Nov 23 j 09:14	0°♍	
morning rise	-60 Jul 02 j 05:27	28°♌30'01			-58 Dec 17 j 05:49	0°♎	
direct	-60 Jul 18 j 12:49	23°♌26'14		evening rise	-58 Dec 31 j 10:55	17°♎49'38	
greatest brilliancy	-60 Aug 01 j 23:36	27°♌04'01	-4.5m		-57 Jan 10 j 04:24	0°♏	
	-60 Aug 07 j 10:56	0°♍			-57 Feb 03 j 06:26	0°♐	
morning max el	-60 Sep 06 j 03:06	24°♍27'37	46°17'55		-57 Feb 27 j 14:03	0°♑	
	-60 Sep 11 j 15:28	0°♎		asc. node	-57 Mar 14 j 15:58	18°♑24'16	
asc. node	-60 Sep 26 j 20:48	16°♎13'49			-57 Mar 24 j 05:54	0°♒	
	-60 Oct 09 j 02:13	0°♏			-57 Apr 18 j 09:29	0°♓	
	-60 Nov 03 j 12:38	0°♐			-57 May 14 j 06:53	0°♔	
	-60 Nov 28 j 02:58	0°♑			-57 Jun 10 j 13:02	0°♕	
	-60 Dec 22 j 09:18	0°♒		evening max el	-57 Jun 29 j 08:58	19°♕02'23	45°40'05
	-59 Jan 15 j 13:26	0°♓		desc. node	-57 Jul 04 j 05:34	23°♕35'38	
desc. node	-59 Jan 16 j 10:32	1°♓05'29			-57 Jul 11 j 11:25	0°♖	
	-59 Feb 08 j 17:52	0°♔		greatest brilliancy	-57 Aug 06 j 08:33	16°♖47'51	-4.5m
	-59 Mar 04 j 23:36	0°♕		retrograde	-57 Aug 17 j 06:35	18°♖55'08	
morning set	-59 Mar 13 j 06:52	10°♕15'25		evening set	-57 Sep 04 j 04:16	12°♖58'07	
	-59 Mar 29 j 07:01	0°♖		inferior conj	-57 Sep 07 j 05:52	11°♖06'44	-8°-39'-34
				minimum elong	-57 Sep 07 j 10:09	11°♖00'10	8°39'20
superior conj	-59 Apr 19 j 21:56	26°♖36'29	0°-44'-16	min. Earth dist.	-57 Sep 07 j 23:48	10°♖39'17	0.27671 AU
minimum elong	-59 Apr 20 j 06:05	27°♖01'34	0°43'57	morning rise	-57 Sep 10 j 15:51	9°♖02'39	
max. Earth dist.	-59 Apr 20 j 22:22	27°♖51'36	1.73485 AU	direct	-57 Sep 28 j 07:41	3°♖09'23	
	-59 Apr 22 j 16:09	0°♗		greatest brilliancy	-57 Oct 12 j 07:15	6°♖43'37	-4.6m
asc. node	-59 May 09 j 13:38	20°♗45'00		asc. node	-57 Oct 25 j 08:30	14°♖58'31	
	-59 May 17 j 02:28	0°♘			-57 Nov 11 j 11:44	0°♗	
evening rise	-59 May 26 j 12:02	11°♘31'59		morning max el	-57 Nov 18 j 01:47	6°♗34'17	46°53'41
	-59 Jun 10 j 13:24	0°♙			-57 Dec 09 j 17:56	0°♘	
	-59 Jul 05 j 00:55	0°♚			-56 Jan 04 j 15:08	0°♙	
	-59 Jul 29 j 13:59	0°♛			-56 Jan 29 j 17:28	0°♚	
	-59 Aug 23 j 06:23	0°♜		desc. node	-56 Feb 13 j 22:32	18°♚22'40	
desc. node	-59 Aug 29 j 03:24	7°♜06'09			-56 Feb 23 j 12:39	0°♛	
	-59 Sep 17 j 04:37	0°♝			-56 Mar 19 j 05:02	0°♜	
	-59 Oct 12 j 13:11	0°♞			-56 Apr 12 j 20:12	0°♝	
	-59 Nov 07 j 20:23	0°♟			-56 May 07 j 10:22	0°♞	
evening max el	-59 Nov 24 j 13:44	17°♟51'31	47°21'17	morning set	-56 May 21 j 01:25	16°♞39'40	
	-59 Dec 07 j 00:40	0°♠			-56 May 31 j 22:49	0°♟	
asc. node	-59 Dec 20 j 06:10	11°♠04'38		asc. node	-56 Jun 06 j 01:26	6°♟15'59	

Planetary Phenomena of Venus from -101 through 0 (UT), Astrodienst AG 24-Mai-2003 10:49, page 10

Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

max. Earth dist.	-56 Jun 23 j 09:33	27° Υ 34'57	1.73387 AU	minimum elong	-54 Nov 20 j 13:07	26° \mathbb{M} 10'04	0°20'34
	-56 Jun 25 j 08:39	0° \mathfrak{E}		min. Earth dist.	-54 Nov 20 j 09:25	26° \mathbb{M} 15'43	0.26345 AU
superior conj	-56 Jun 26 j 07:26	1° \mathfrak{E} 10'10	0°45'29	asc. node	-54 Nov 21 j 20:20	25° \mathbb{M} 22'38	
minimum elong	-56 Jun 25 j 23:39	0° \mathfrak{E} 46'12	0°45'10	morning rise	-54 Nov 26 j 16:55	22° \mathbb{M} 34'49	
	-56 Jul 19 j 15:35	0° Ω		direct	-54 Dec 10 j 18:52	18° \mathbb{M} 35'48	
evening rise	-56 Aug 01 j 03:39	15° Ω 29'18		greatest brilliancy	-54 Dec 22 j 16:33	21° \mathbb{M} 14'27	-4.7m
	-56 Aug 12 j 20:22	0° \mathbb{M}		morning max el	-53 Jan 06 j 06:34	0° \mathfrak{A}	
	-56 Sep 06 j 00:29	0° \mathfrak{E}			-53 Jan 30 j 01:06	21° \mathfrak{A} 13'26	46°41'53
desc. node	-56 Sep 25 j 15:19	24° \mathfrak{E} 19'30			-53 Feb 07 j 14:45	0° \mathfrak{E}	
	-56 Sep 30 j 05:19	0° \mathbb{M}		desc. node	-53 Mar 07 j 00:32	0° \approx	
	-56 Oct 24 j 12:08	0° \mathfrak{A}			-53 Mar 13 j 10:22	7° \approx 17'13	
	-56 Nov 17 j 22:59	0° \mathfrak{E}			-53 Apr 02 j 02:11	0° \mathfrak{K}	
	-56 Dec 12 j 18:52	0° \approx			-53 Apr 27 j 13:45	0° \mathfrak{V}	
asc. node	-55 Jan 07 j 11:44	0° \mathfrak{K}			-53 May 22 j 17:04	0° \mathfrak{B}	
	-55 Jan 16 j 18:08	10° \mathfrak{K} 21'34		asc. node	-53 Jun 16 j 13:44	0° \mathbb{I}	
evening max el	-55 Feb 03 j 22:34	29° \mathfrak{K} 30'40	46°18'14		-53 Jul 04 j 13:19	21° \mathbb{I} 54'29	
	-55 Feb 04 j 10:20	0° \mathfrak{V}			-53 Jul 11 j 03:47	0° \mathfrak{E}	
greatest brilliancy	-55 Mar 10 j 23:50	27° \mathfrak{V} 23'12	-4.5m	morning set	-53 Jul 28 j 15:23	21° \mathfrak{E} 32'10	
	-55 Mar 17 j 15:39	0° \mathfrak{B}			-53 Aug 04 j 11:24	0° Ω	
retrograde	-55 Mar 25 j 14:50	1° \mathfrak{B} 11'33			-53 Aug 28 j 13:46	0° \mathbb{M}	
	-55 Apr 02 j 07:38	30° \mathfrak{V}		max. Earth dist.	-53 Aug 31 j 06:45	3° \mathbb{M} 23'02	1.71950 AU
evening set	-55 Apr 10 j 19:59	26° \mathfrak{V} 06'09		superior conj	-53 Sep 03 j 15:29	7° \mathbb{M} 35'26	1°23'39
inferior conj	-55 Apr 16 j 00:34	22° \mathfrak{V} 54'21	4°54'11	minimum elong	-53 Sep 03 j 18:25	7° \mathbb{M} 44'36	1°23'38
minimum elong	-55 Apr 16 j 09:25	22° \mathfrak{V} 40'20	4°52'04		-53 Sep 21 j 12:55	0° \mathfrak{E}	
min. Earth dist.	-55 Apr 16 j 05:00	22° \mathfrak{V} 47'18	0.28941 AU	evening rise	-53 Oct 12 j 15:18	26° \mathfrak{E} 27'53	
morning rise	-55 Apr 21 j 23:02	19° \mathfrak{V} 17'12			-53 Oct 15 j 10:57	0° \mathbb{M}	
direct	-55 May 07 j 13:46	14° \mathfrak{V} 36'16		desc. node	-53 Oct 24 j 03:11	10° \mathbb{M} 52'42	
desc. node	-55 May 08 j 07:48	14° \mathfrak{V} 36'55			-53 Nov 08 j 09:22	0° \mathfrak{A}	
greatest brilliancy	-55 May 20 j 10:39	17° \mathfrak{V} 31'02	-4.5m		-53 Dec 02 j 09:16	0° \mathfrak{E}	
	-55 Jun 09 j 02:13	0° \mathfrak{B}			-53 Dec 26 j 12:18	0° \approx	
morning max el	-55 Jun 25 j 07:28	14° \mathfrak{B} 18'49	45°45'58		-52 Jan 19 j 21:47	0° \mathfrak{K}	
	-55 Jul 10 j 23:14	0° \mathbb{I}			-52 Feb 13 j 19:38	0° \mathfrak{V}	
	-55 Aug 07 j 08:26	0° \mathfrak{E}		asc. node	-52 Feb 14 j 06:04	0° \mathfrak{V} 30'56	
asc. node	-55 Aug 29 j 11:05	25° \mathfrak{E} 43'53			-52 Mar 10 j 16:13	0° \mathfrak{B}	
	-55 Sep 02 j 01:12	0° Ω			-52 Apr 07 j 11:48	0° \mathbb{I}	
	-55 Sep 26 j 19:32	0° \mathbb{M}		evening max el	-52 Apr 15 j 14:58	8° \mathbb{I} 02'21	45°21'25
	-55 Oct 21 j 00:56	0° \mathfrak{E}			-52 May 12 j 08:02	0° \mathfrak{E}	
	-55 Nov 13 j 23:58	0° \mathbb{M}		greatest brilliancy	-52 May 20 j 03:11	4° \mathfrak{E} 16'07	-4.5m
	-55 Dec 07 j 21:01	0° \mathfrak{A}		retrograde	-52 Jun 03 j 03:34	7° \mathfrak{E} 41'01	
desc. node	-55 Dec 19 j 00:42	14° \mathfrak{A} 00'36		desc. node	-52 Jun 04 j 19:46	7° \mathfrak{E} 37'43	
morning set	-55 Dec 25 j 11:55	22° \mathfrak{A} 07'44		evening set	-52 Jun 18 j 10:22	3° \mathfrak{E} 12'28	
	-55 Dec 31 j 18:31	0° \mathfrak{E}			-52 Jun 23 j 20:29	30° \mathbb{I}	
	-54 Jan 24 j 17:42	0° \approx		inferior conj	-52 Jun 24 j 13:57	29° \mathbb{I} 32'56	-4°-25'-7
superior conj	-54 Feb 04 j 22:50	13° \approx 59'41	-1°-22'-59	minimum elong	-52 Jun 24 j 05:19	29° \mathbb{I} 46'18	4°22'56
minimum elong	-54 Feb 04 j 17:34	13° \approx 43'18	1°22'55	min. Earth dist.	-52 Jun 24 j 16:46	29° \mathbb{I} 28'34	0.28865 AU
max. Earth dist.	-54 Feb 09 j 03:54	19° \approx 14'29	1.72048 AU	morning rise	-52 Jun 30 j 00:01	26° \mathbb{I} 16'58	
	-54 Feb 17 j 19:23	0° \mathfrak{K}		direct	-52 Jul 16 j 05:36	21° \mathbb{I} 16'18	
	-54 Mar 14 j 00:22	0° \mathfrak{V}		greatest brilliancy	-52 Jul 30 j 15:44	24° \mathbb{I} 53'57	-4.5m
evening rise	-54 Mar 16 j 09:50	2° \mathfrak{V} 57'24			-52 Aug 08 j 13:33	0° \mathfrak{E}	
	-54 Apr 07 j 09:23	0° \mathfrak{B}		morning max el	-52 Sep 03 j 19:20	22° \mathfrak{E} 15'25	46°16'19
asc. node	-54 Apr 11 j 03:50	4° \mathfrak{B} 37'01			-52 Sep 11 j 11:20	0° Ω	
	-54 May 01 j 23:01	0° \mathbb{I}		asc. node	-52 Sep 25 j 22:48	15° Ω 33'06	
	-54 May 26 j 18:01	0° \mathfrak{E}			-52 Oct 08 j 17:24	0° \mathbb{M}	
	-54 Jun 20 j 20:09	0° Ω			-52 Nov 03 j 02:01	0° \mathfrak{E}	
desc. node	-54 Jul 16 j 09:30	0° \mathbb{M}			-52 Nov 27 j 15:27	0° \mathbb{M}	
	-54 Jul 31 j 17:29	17° \mathbb{M} 35'29			-52 Dec 21 j 21:16	0° \mathfrak{A}	
	-54 Aug 11 j 18:58	0° \mathfrak{E}		desc. node	-51 Jan 15 j 01:02	0° \mathfrak{E}	
	-54 Sep 09 j 01:40	0° \mathbb{M}			-51 Jan 15 j 12:44	0° \mathfrak{E} 36'21	
evening max el	-54 Sep 10 j 16:56	1° \mathbb{M} 37'19	46°54'22		-51 Feb 08 j 05:10	0° \approx	
	-54 Oct 16 j 08:55	0° \mathfrak{A}		morning set	-51 Mar 04 j 10:40	0° \mathfrak{K}	
greatest brilliancy	-54 Oct 19 j 21:30	1° \mathfrak{A} 34'04	-4.7m		-51 Mar 10 j 21:31	7° \mathfrak{K} 58'22	
retrograde	-54 Oct 30 j 23:09	3° \mathfrak{A} 51'48			-51 Mar 28 j 17:56	0° \mathfrak{V}	
	-54 Nov 13 j 22:17	30° \mathbb{M}		superior conj	-51 Apr 17 j 14:58	24° \mathfrak{V} 27'57	0°-47'-2
evening set	-54 Nov 14 j 09:15	29° \mathbb{M} 45'34		minimum elong	-51 Apr 17 j 23:29	24° \mathfrak{V} 54'08	0°46'41
inferior conj	-54 Nov 20 j 12:20	26° \mathbb{M} 11'17	0°-20'-48	max. Earth dist.	-51 Apr 18 j 20:13	25° \mathfrak{V} 57'55	1.73457 AU

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-51 Apr 22 j 02:59	0°♄		greatest brilliancy	-49 Oct 09 j 22:35	4°♎22'53	-4.6m
asc. node	-51 May 08 j 15:40	20°♄18'03		asc. node	-49 Oct 24 j 10:33	13°♎44'57	
	-51 May 16 j 13:19	0°♂			-49 Nov 11 j 12:35	0°♎	
evening rise	-51 May 24 j 06:58	9°♂29'34		morning max el	-49 Nov 15 j 14:31	4°♎06'31	46°53'00
	-51 Jun 10 j 00:21	0°♄			-49 Dec 09 j 11:06	0°♎	
	-51 Jul 04 j 12:07	0°♄			-48 Jan 04 j 05:39	0°♄	
	-51 Jul 29 j 01:38	0°♎			-48 Jan 29 j 06:39	0°♄	
	-51 Aug 22 j 18:43	0°♎		desc. node	-48 Feb 13 j 00:33	17°♄50'25	
desc. node	-51 Aug 28 j 05:27	6°♎34'31			-48 Feb 23 j 01:00	0°♎	
	-51 Sep 16 j 17:59	0°♎			-48 Mar 18 j 16:49	0°♎	
	-51 Oct 12 j 04:12	0°♄			-48 Apr 12 j 07:35	0°♎	
	-51 Nov 07 j 14:45	0°♄			-48 May 06 j 21:28	0°♄	
evening max el	-51 Nov 22 j 05:42	15°♄32'19	47°22'13	morning set	-48 May 18 j 19:43	14°♄35'07	
	-51 Dec 07 j 06:23	0°♎			-48 May 31 j 09:47	0°♂	
asc. node	-51 Dec 19 j 08:22	9°♎46'41		asc. node	-48 Jun 05 j 03:35	5°♂49'00	
greatest brilliancy	-51 Dec 29 j 19:09	16°♎02'44	-4.7m	max. Earth dist.	-48 Jun 21 j 04:50	25°♂32'57	1.73420 AU
retrograde	-50 Jan 12 j 06:53	19°♎26'01					
evening set	-50 Jan 29 j 12:25	13°♎33'43		superior conj	-48 Jun 24 j 02:04	29°♂06'05	0°42'50
min. Earth dist.	-50 Feb 01 j 07:16	11°♎50'11	0.27753 AU	minimum elong	-48 Jun 23 j 18:35	28°♂43'01	0°42'31
inferior conj	-50 Feb 02 j 04:57	11°♎16'05	8°22'11		-48 Jun 24 j 19:35	0°♄	
minimum elong	-50 Feb 01 j 23:39	11°♎24'24	8°21'44		-48 Jul 19 j 02:36	0°♄	
morning rise	-50 Feb 05 j 11:13	9°♎14'47		evening rise	-48 Jul 29 j 21:31	13°♄21'36	
direct	-50 Feb 23 j 00:03	3°♎19'22			-48 Aug 12 j 07:34	0°♎	
greatest brilliancy	-50 Mar 05 j 15:33	5°♎25'25	-4.6m		-48 Sep 05 j 11:55	0°♎	
	-50 Apr 09 j 00:15	0°♎		desc. node	-48 Sep 24 j 17:21	23°♎49'37	
desc. node	-50 Apr 09 j 22:05	0°♎51'11			-48 Sep 29 j 17:05	0°♎	
morning max el	-50 Apr 13 j 04:50	3°♎58'40	46°00'04		-48 Oct 24 j 00:20	0°♄	
	-50 May 08 j 11:30	0°♎			-48 Nov 17 j 11:50	0°♄	
	-50 Jun 04 j 10:09	0°♄			-48 Dec 12 j 08:48	0°♎	
	-50 Jun 30 j 06:38	0°♂			-47 Jan 07 j 03:52	0°♎	
	-50 Jul 25 j 10:17	0°♄		asc. node	-47 Jan 15 j 20:12	9°♎39'25	
asc. node	-50 Aug 01 j 01:14	8°♄01'00		evening max el	-47 Feb 01 j 12:28	27°♎10'55	46°20'54
	-50 Aug 19 j 00:58	0°♄			-47 Feb 04 j 08:52	0°♎	
	-50 Sep 12 j 05:55	0°♎		greatest brilliancy	-47 Mar 08 j 16:48	25°♎12'46	-4.5m
greatest brilliancy	-50 Sep 18 j 12:08	7°♎48'53	-3.9m	retrograde	-47 Mar 23 j 07:13	29°♎01'30	
	-50 Oct 06 j 04:45	0°♎		evening set	-47 Apr 08 j 15:04	23°♎52'09	
morning set	-50 Oct 07 j 15:08	1°♎48'02		inferior conj	-47 Apr 13 j 17:09	20°♎44'10	5°10'09
	-50 Oct 30 j 00:49	0°♎		minimum elong	-47 Apr 14 j 02:14	20°♎29'47	5°08'03
				min. Earth dist.	-47 Apr 13 j 21:35	20°♎37'09	0.28928 AU
superior conj	-50 Nov 16 j 23:29	22°♎36'13	0°08'41	morning rise	-47 Apr 19 j 13:31	17°♎09'50	
minimum elong	-50 Nov 17 j 01:48	22°♎43'31	0°08'35	direct	-47 May 05 j 05:18	12°♎26'11	
behind sun begin	-50 Nov 16 j 02:57	21°♎31'35		desc. node	-47 May 07 j 09:53	12°♎31'41	
behind sun end	-50 Nov 18 j 00:39	23°♎55'27		greatest brilliancy	-47 May 18 j 01:58	15°♎20'15	-4.5m
max. Earth dist.	-50 Nov 18 j 05:57	24°♎12'10	1.71007 AU		-47 Jun 09 j 10:08	0°♄	
desc. node	-50 Nov 20 j 15:02	27°♎11'50		morning max el	-47 Jun 22 j 22:56	12°♄07'16	45°45'40
	-50 Nov 22 j 20:28	0°♄			-47 Jul 10 j 17:03	0°♂	
	-50 Dec 16 j 17:05	0°♄			-47 Aug 06 j 22:44	0°♄	
evening rise	-50 Dec 28 j 20:41	15°♄14'32		asc. node	-47 Aug 28 j 13:00	25°♄11'00	
	-49 Jan 09 j 15:41	0°♎			-47 Sep 01 j 14:02	0°♄	
	-49 Feb 02 j 17:48	0°♎			-47 Sep 26 j 07:39	0°♎	
	-49 Feb 27 j 01:36	0°♎			-47 Oct 20 j 12:40	0°♎	
asc. node	-49 Mar 13 j 17:58	17°♎54'42			-47 Nov 13 j 11:28	0°♎	
	-49 Mar 23 j 17:51	0°♄			-47 Dec 07 j 08:22	0°♄	
	-49 Apr 17 j 22:14	0°♂		desc. node	-47 Dec 18 j 02:55	13°♄32'00	
	-49 May 13 j 21:14	0°♄		morning set	-47 Dec 22 j 21:44	19°♄32'28	
	-49 Jun 10 j 07:04	0°♄			-47 Dec 31 j 05:47	0°♄	
evening max el	-49 Jun 26 j 22:38	16°♄44'19	45°38'07		-46 Jan 24 j 04:54	0°♎	
desc. node	-49 Jul 03 j 07:47	22°♄40'55					
	-49 Jul 11 j 19:24	0°♎		superior conj	-46 Feb 02 j 10:52	11°♎32'47	-1°-22'00
greatest brilliancy	-49 Aug 03 j 21:19	14°♎28'10	-4.5m	minimum elong	-46 Feb 02 j 04:41	11°♎13'32	1°21'56
retrograde	-49 Aug 14 j 19:17	16°♎35'36		max. Earth dist.	-46 Feb 06 j 13:21	16°♎39'45	1.71994 AU
evening set	-49 Sep 01 j 18:51	10°♎37'10			-46 Feb 17 j 06:32	0°♎	
inferior conj	-49 Sep 04 j 19:45	8°♎46'43	-8°-43'-6		-46 Mar 13 j 11:29	0°♎	
minimum elong	-49 Sep 04 j 23:11	8°♎41'27	8°42'57	evening rise	-46 Mar 14 j 00:15	0°♎39'25	
min. Earth dist.	-49 Sep 05 j 13:30	8°♎19'29	0.27732 AU		-46 Apr 06 j 20:34	0°♄	
morning rise	-49 Sep 08 j 03:18	6°♎45'57		asc. node	-46 Apr 10 j 05:53	4°♄08'59	
direct	-49 Sep 25 j 21:48	0°♎48'22			-46 May 01 j 10:26	0°♂	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-46 May 26 j 05:53	0°☉							-44 Nov 02 j 15:20	0°♊
	-46 Jun 20 j 08:49	0°♋							-44 Nov 27 j 03:57	0°♌
	-46 Jul 15 j 23:33	0°♍							-44 Dec 21 j 09:15	0°♎
desc. node	-46 Jul 30 j 19:30	16°♍57'46							-43 Jan 14 j 12:38	0°♏
	-46 Aug 11 j 11:42	0°♎						desc. node	-43 Jan 14 j 14:43	0°♐06'28
evening max el	-46 Sep 08 j 05:53	29°♎12'06	46°52'02						-43 Feb 07 j 16:28	0°♑
	-46 Sep 09 j 01:24	0°♏							-43 Mar 03 j 21:43	0°♒
greatest brilliancy	-46 Oct 17 j 10:42	29°♏05'01	-4.7m					morning set	-43 Mar 08 j 12:21	5°♒41'54
	-46 Oct 20 j 01:00	0°♐							-43 Mar 28 j 04:49	0°♓
retrograde	-46 Oct 28 j 11:39	1°♐22'00								
	-46 Nov 05 j 15:37	30°♐						superior conj	-43 Apr 15 j 08:08	22°♓19'53 0°-49'-42
evening set	-46 Nov 11 j 22:30	27°♐14'07						minimum elong	-43 Apr 15 j 16:57	22°♓46'58 0°49'22
inferior conj	-46 Nov 18 j 00:27	23°♐41'44	0°-45'-29					max. Earth dist.	-43 Apr 16 j 19:07	24°♓07'26 1.73429 AU
minimum elong	-46 Nov 18 j 02:12	23°♐39'05	0°44'56						-43 Apr 21 j 13:48	0°♈
min. Earth dist.	-46 Nov 17 j 22:59	23°♐43'58	0.26346 AU					asc. node	-43 May 07 j 17:51	19°♈51'35
asc. node	-46 Nov 20 j 22:29	21°♐56'25							-43 May 16 j 00:09	0°♉
morning rise	-46 Nov 24 j 05:48	20°♐04'48						evening rise	-43 May 22 j 01:56	7°♉27'12
direct	-46 Dec 08 j 07:18	16°♐06'01							-43 Jun 09 j 11:20	0°♊
greatest brilliancy	-46 Dec 20 j 07:13	18°♐47'42	-4.7m						-43 Jul 03 j 23:22	0°♋
	-45 Jan 06 j 23:52	0°♌							-43 Jul 28 j 13:19	0°♍
morning max el	-45 Jan 27 j 15:21	18°♌50'49	46°43'11						-43 Aug 22 j 07:05	0°♎
	-45 Feb 07 j 10:55	0°♍						desc. node	-43 Aug 27 j 07:26	6°♎02'47
	-45 Mar 06 j 16:03	0°♎							-43 Sep 16 j 07:23	0°♏
desc. node	-45 Mar 12 j 12:25	6°♎40'26							-43 Oct 11 j 19:19	0°♐
	-45 Apr 01 j 15:41	0°♏							-43 Nov 07 j 09:30	0°♑
	-45 Apr 27 j 02:08	0°♐						evening max el	-43 Nov 19 j 21:16	13°♑12'07 47°22'52
	-45 May 22 j 04:46	0°♑							-43 Dec 07 j 14:18	0°♒
	-45 Jun 16 j 01:02	0°♒						asc. node	-43 Dec 18 j 10:29	8°♒26'06
asc. node	-45 Jul 03 j 15:26	21°♒26'57						greatest brilliancy	-43 Dec 27 j 12:42	13°♒44'09 -4.7m
	-45 Jul 10 j 14:51	0°♓						retrograde	-42 Jan 09 j 21:54	17°♒04'04
morning set	-45 Jul 26 j 08:33	19°♓22'57						evening set	-42 Jan 27 j 00:03	11°♒17'14
	-45 Aug 03 j 22:23	0°♈						min. Earth dist.	-42 Jan 29 j 20:58	9°♒30'29 0.27682 AU
	-45 Aug 28 j 00:47	0°♉						inferior conj	-42 Jan 30 j 19:22	8°♒55'14 8°16'18
max. Earth dist.	-45 Aug 28 j 21:39	1°♉05'10	1.72005 AU					minimum elong	-42 Jan 30 j 13:24	9°♒04'38 8°15'44
								morning rise	-42 Feb 03 j 03:06	6°♒51'42
superior conj	-45 Sep 01 j 07:01	5°♉19'25	1°24'06					direct	-42 Feb 20 j 14:04	1°♒00'00
minimum elong	-45 Sep 01 j 09:10	5°♉26'09	1°24'05					greatest brilliancy	-42 Mar 03 j 03:30	3°♒04'06 -4.6m
	-45 Sep 21 j 00:02	0°♊							-42 Apr 09 j 00:28	0°♋
evening rise	-45 Oct 10 j 03:12	23°♊59'23						desc. node	-42 Apr 09 j 00:12	29°♋59'21
	-45 Oct 14 j 22:13	0°♋						morning max el	-42 Apr 10 j 18:39	1°♋41'07 46°01'18
desc. node	-45 Oct 23 j 05:19	10°♋23'55							-42 May 08 j 03:47	0°♌
	-45 Nov 07 j 20:48	0°♌							-42 Jun 03 j 23:44	0°♍
	-45 Dec 01 j 20:52	0°♍							-42 Jun 29 j 18:55	0°♎
	-45 Dec 26 j 00:07	0°♎							-42 Jul 24 j 21:53	0°♏
	-44 Jan 19 j 10:01	0°♏						asc. node	-42 Jul 31 j 03:12	7°♏32'03
	-44 Feb 13 j 08:42	0°♐							-42 Aug 18 j 12:12	0°♑
asc. node	-44 Feb 13 j 08:03	29°♐58'04							-42 Sep 11 j 17:00	0°♒
	-44 Mar 10 j 07:07	0°♑						greatest brilliancy	-42 Sep 20 j 11:40	10°♒58'03 -3.9m
	-44 Apr 07 j 07:40	0°♒						morning set	-42 Oct 05 j 04:19	29°♒24'02
evening max el	-44 Apr 13 j 07:49	5°♒54'03	45°22'16						-42 Oct 05 j 15:46	0°♓
	-44 May 13 j 15:07	0°♓							-42 Oct 29 j 11:50	0°♈
greatest brilliancy	-44 May 17 j 18:00	2°♓05'31	-4.5m							
retrograde	-44 May 31 j 20:02	5°♓31'35						superior conj	-42 Nov 14 j 09:21	20°♈01'25 0°12'38
desc. node	-44 Jun 03 j 21:58	5°♓20'25						minimum elong	-42 Nov 14 j 12:41	20°♈11'57 0°12'28
evening set	-44 Jun 16 j 01:02	1°♓05'09						behind sun begin	-42 Nov 13 j 19:21	19°♈17'22
	-44 Jun 17 j 23:01	30°♈						behind sun end	-42 Nov 15 j 06:01	21°♈06'31
inferior conj	-44 Jun 22 j 06:05	27°♈23'04	-4°-7'-41					max. Earth dist.	-42 Nov 15 j 08:40	21°♈14'52 1.71008 AU
minimum elong	-44 Jun 21 j 21:53	27°♈35'49	4°05'35					desc. node	-42 Nov 19 j 17:10	26°♈43'46
min. Earth dist.	-44 Jun 22 j 08:30	27°♈19'19	0.28880 AU						-42 Nov 22 j 07:32	0°♉
morning rise	-44 Jun 27 j 18:34	24°♈03'39							-42 Dec 16 j 04:10	0°♊
direct	-44 Jul 13 j 22:28	19°♈06'25						evening rise	-42 Dec 26 j 06:26	12°♊39'45
greatest brilliancy	-44 Jul 28 j 06:42	22°♈42'14	-4.5m						-41 Jan 09 j 02:50	0°♋
	-44 Aug 09 j 09:08	0°♉							-41 Feb 02 j 05:02	0°♌
morning max el	-44 Sep 01 j 11:07	20°♉02'06	46°14'42						-41 Feb 26 j 13:01	0°♍
	-44 Sep 11 j 06:41	0°♊						asc. node	-41 Mar 12 j 20:06	17°♍25'57
asc. node	-44 Sep 25 j 00:58	14°♊53'03							-41 Mar 23 j 05:40	0°♎
	-44 Oct 08 j 08:25	0°♋							-41 Apr 17 j 10:49	0°♏

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-41 May 13 j 11:28	0°♁				-39 Dec 06 j 19:28	0°♄	
	-41 Jun 10 j 01:15	0°♂			desc. node	-39 Dec 17 j 04:55	13°♄03'31	
evening max el	-41 Jun 24 j 11:44	14°♂25'44	45°36'08		morning set	-39 Dec 20 j 07:10	16°♄56'41	
desc. node	-41 Jul 02 j 09:44	21°♂45'03				-39 Dec 30 j 16:47	0°♁	
	-41 Jul 12 j 05:54	0°♁				-38 Jan 23 j 15:49	0°♁	
greatest brilliancy	-41 Aug 01 j 09:25	12°♁08'26	-4.5m					
retrograde	-41 Aug 12 j 08:08	14°♁17'05			superior conj	-38 Jan 30 j 22:22	9°♁05'05	-1°-20'-52
evening set	-41 Aug 30 j 09:02	8°♁17'30			minimum elong	-38 Jan 30 j 15:20	8°♁43'07	1°20'47
inferior conj	-41 Sep 02 j 09:42	6°♁27'30	-8°-45'-39		max. Earth dist.	-38 Feb 03 j 22:49	14°♁05'52	1.71940 AU
minimum elong	-41 Sep 02 j 12:15	6°♁23'34	8°45'34			-38 Feb 16 j 17:22	0°♁	
min. Earth dist.	-41 Sep 03 j 03:23	6°♁00'22	0.27795 AU		evening rise	-38 Mar 11 j 14:26	28°♁21'37	
morning rise	-41 Sep 05 j 15:14	4°♁29'38				-38 Mar 12 j 22:18	0°♁	
	-41 Sep 14 j 18:34	30°♂				-38 Apr 06 j 07:28	0°♁	
direct	-41 Sep 23 j 11:49	28°♂27'57			asc. node	-38 Apr 09 j 08:04	3°♁42'14	
	-41 Oct 02 j 12:36	0°♁				-38 Apr 30 j 21:34	0°♁	
greatest brilliancy	-41 Oct 07 j 15:02	2°♁04'25	-4.6m			-38 May 25 j 17:28	0°♁	
asc. node	-41 Oct 23 j 12:43	12°♁34'14				-38 Jun 19 j 21:11	0°♂	
	-41 Nov 11 j 12:03	0°♁				-38 Jul 15 j 13:19	0°♁	
morning max el	-41 Nov 13 j 03:46	1°♁40'49	46°52'23		desc. node	-38 Jul 29 j 21:33	16°♁21'02	
	-41 Dec 09 j 03:40	0°♁				-38 Aug 11 j 04:19	0°♁	
	-40 Jan 03 j 19:44	0°♁			evening max el	-38 Sep 05 j 19:33	26°♁50'04	46°49'33
	-40 Jan 28 j 19:27	0°♁				-38 Sep 09 j 01:46	0°♁	
desc. node	-40 Feb 12 j 02:33	17°♁19'06			greatest brilliancy	-38 Oct 14 j 23:14	26°♁36'10	-4.7m
	-40 Feb 22 j 13:01	0°♁			retrograde	-38 Oct 26 j 00:15	28°♁52'31	
	-40 Mar 18 j 04:19	0°♁			evening set	-38 Nov 09 j 11:49	24°♁42'52	
	-40 Apr 11 j 18:42	0°♁			inferior conj	-38 Nov 15 j 12:23	21°♁12'22	-1°-10'-13
	-40 May 06 j 08:18	0°♁			minimum elong	-38 Nov 15 j 15:04	21°♁08'18	1°09'21
morning set	-40 May 16 j 14:09	12°♁31'46			min. Earth dist.	-38 Nov 15 j 12:09	21°♁12'43	0.26354 AU
	-40 May 30 j 20:26	0°♁			asc. node	-38 Nov 20 j 00:34	18°♁32'10	
asc. node	-40 Jun 04 j 05:40	5°♁22'42			morning rise	-38 Nov 21 j 18:16	17°♁35'12	
max. Earth dist.	-40 Jun 19 j 02:22	23°♁38'47	1.73451 AU		direct	-38 Dec 05 j 20:03	13°♁36'31	
					greatest brilliancy	-38 Dec 17 j 21:08	16°♁20'10	-4.7m
superior conj	-40 Jun 21 j 20:53	27°♁03'31	0°40'08			-37 Jan 07 j 12:41	0°♁	
minimum elong	-40 Jun 21 j 13:43	26°♁41'28	0°39'50		morning max el	-37 Jan 25 j 05:44	16°♁28'49	46°44'22
	-40 Jun 24 j 06:12	0°♁				-37 Feb 07 j 06:19	0°♁	
	-40 Jul 18 j 13:18	0°♂				-37 Mar 06 j 07:08	0°♁	
evening rise	-40 Jul 27 j 15:39	11°♂15'44			desc. node	-37 Mar 11 j 14:35	6°♁04'55	
	-40 Aug 11 j 18:28	0°♁				-37 Apr 01 j 04:48	0°♁	
	-40 Sep 04 j 23:06	0°♁				-37 Apr 26 j 14:10	0°♁	
desc. node	-40 Sep 23 j 19:29	23°♁20'46				-37 May 21 j 16:10	0°♁	
	-40 Sep 29 j 04:38	0°♁				-37 Jun 15 j 12:02	0°♁	
	-40 Oct 23 j 12:21	0°♁			asc. node	-37 Jul 02 j 17:25	20°♁59'49	
	-40 Nov 17 j 00:30	0°♁				-37 Jul 10 j 01:39	0°♁	
	-40 Dec 11 j 22:34	0°♁			morning set	-37 Jul 24 j 01:57	17°♁15'21	
	-39 Jan 06 j 19:57	0°♁				-37 Aug 03 j 09:05	0°♂	
asc. node	-39 Jan 14 j 22:11	8°♁57'24			max. Earth dist.	-37 Aug 26 j 11:06	28°♂43'56	1.72055 AU
evening max el	-39 Jan 30 j 02:37	24°♁52'32	46°23'37			-37 Aug 27 j 11:29	0°♁	
	-39 Feb 04 j 07:59	0°♁						
greatest brilliancy	-39 Mar 06 j 08:42	23°♁01'32	-4.5m		superior conj	-37 Aug 29 j 22:58	3°♁05'48	1°24'23
retrograde	-39 Mar 20 j 23:54	26°♁51'55			minimum elong	-37 Aug 30 j 00:20	3°♁10'03	1°24'23
evening set	-39 Apr 06 j 10:03	21°♁38'18				-37 Sep 20 j 10:49	0°♁	
inferior conj	-39 Apr 11 j 09:34	18°♁34'16	5°25'44		evening rise	-37 Oct 07 j 15:26	21°♁33'03	
minimum elong	-39 Apr 11 j 18:50	18°♁19'35	5°23'39			-37 Oct 14 j 09:10	0°♁	
min. Earth dist.	-39 Apr 11 j 13:47	18°♁27'36	0.28915 AU		desc. node	-37 Oct 22 j 07:25	9°♁56'04	
morning rise	-39 Apr 17 j 03:44	15°♁03'11				-37 Nov 07 j 07:57	0°♁	
direct	-39 May 02 j 20:53	10°♁16'20				-37 Dec 01 j 08:14	0°♁	
desc. node	-39 May 06 j 12:01	10°♁31'19				-37 Dec 25 j 11:46	0°♁	
greatest brilliancy	-39 May 15 j 17:26	13°♁10'19	-4.5m			-36 Jan 18 j 22:08	0°♁	
	-39 Jun 09 j 15:24	0°♁			asc. node	-36 Feb 12 j 10:12	29°♁26'01	
morning max el	-39 Jun 20 j 15:13	9°♁58'39	45°45'34			-36 Feb 12 j 21:42	0°♁	
	-39 Jul 10 j 10:06	0°♁				-36 Mar 09 j 22:04	0°♁	
	-39 Aug 06 j 12:31	0°♁				-36 Apr 07 j 03:58	0°♁	
asc. node	-39 Aug 27 j 15:12	24°♁40'07			evening max el	-36 Apr 11 j 00:15	3°♁45'10	45°23'13
	-39 Sep 01 j 02:26	0°♂			greatest brilliancy	-36 May 15 j 09:27	29°♁56'06	-4.5m
	-39 Sep 25 j 19:24	0°♁				-36 May 15 j 12:52	0°♁	
	-39 Oct 20 j 00:05	0°♁			retrograde	-36 May 29 j 11:52	3°♁22'27	
	-39 Nov 12 j 22:42	0°♁			desc. node	-36 Jun 02 j 23:56	2°♁58'37	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

evening set	-36 Jun 11 j 16:10	30° Π		superior conj	-34 Nov 11 j 19:31	17° \mathbb{M} 27'43	0°16'32
evening set	-36 Jun 13 j 15:47	28° \mathbb{I} 58'02		minimum elong	-34 Nov 11 j 23:51	17° \mathbb{M} 41'20	0°16'19
inferior conj	-36 Jun 19 j 22:09	25° \mathbb{I} 13'43	-3°-49'-52	behind sun begin	-34 Nov 11 j 22:23	17° \mathbb{M} 36'42	
minimum elong	-36 Jun 19 j 14:25	25° \mathbb{I} 25'46	3°47'51	behind sun end	-34 Nov 12 j 01:19	17° \mathbb{M} 45'57	
min. Earth dist.	-36 Jun 20 j 00:32	25° \mathbb{I} 10'00	0.28892 AU	max. Earth dist.	-34 Nov 12 j 11:09	18° \mathbb{M} 16'53	1.71008 AU
morning rise	-36 Jun 25 j 12:52	21° \mathbb{I} 50'45		desc. node	-34 Nov 18 j 19:10	26° \mathbb{M} 15'23	
direct	-36 Jul 11 j 15:00	16° \mathbb{I} 56'58			-34 Nov 21 j 18:33	0° \mathcal{Z}	
greatest brilliancy	-36 Jul 25 j 20:50	20° \mathbb{I} 29'50	-4.5m		-34 Dec 15 j 15:12	0° \mathcal{Z}	
	-36 Aug 09 j 23:30	0° \mathcal{E}		evening rise	-34 Dec 23 j 16:29	10° \mathcal{E} 06'12	
morning max el	-36 Aug 30 j 02:06	17° \mathcal{E} 47'28	46°13'17		-33 Jan 08 j 13:54	0° \approx	
	-36 Sep 11 j 01:16	0° Ω			-33 Feb 01 j 16:13	0° \mathcal{H}	
asc. node	-36 Sep 24 j 03:03	14° Ω 13'57			-33 Feb 26 j 00:25	0° \mathcal{V}	
	-36 Oct 07 j 22:58	0° \mathbb{M}		asc. node	-33 Mar 11 j 22:13	16° \mathcal{V} 57'11	
	-36 Nov 02 j 04:18	0° \mathcal{E}			-33 Mar 22 j 17:30	0° \mathcal{E}	
	-36 Nov 26 j 16:06	0° \mathbb{M}			-33 Apr 16 j 23:32	0° \mathbb{I}	
	-36 Dec 20 j 20:57	0° \mathcal{Z}			-33 May 13 j 01:57	0° \mathcal{E}	
desc. node	-35 Jan 13 j 16:45	29° \mathcal{Z} 37'23			-33 Jun 09 j 20:03	0° Ω	
	-35 Jan 14 j 00:02	0° \mathcal{Z}		evening max el	-33 Jun 22 j 00:53	12° Ω 07'11	45°34'23
	-35 Feb 07 j 03:36	0° \approx		desc. node	-33 Jul 01 j 11:49	20° Ω 47'57	
	-35 Mar 03 j 08:39	0° \mathcal{H}			-33 Jul 12 j 20:07	0° \mathbb{M}	
morning set	-35 Mar 06 j 02:38	3° \mathcal{H} 24'02		greatest brilliancy	-33 Jul 29 j 20:17	9° \mathbb{M} 47'23	-4.5m
	-35 Mar 27 j 15:36	0° \mathcal{V}		retrograde	-33 Aug 09 j 21:28	11° \mathbb{M} 58'41	
				evening set	-33 Aug 27 j 22:45	5° \mathbb{M} 58'16	
superior conj	-35 Apr 13 j 00:50	20° \mathcal{V} 10'39	0°-52'-20	inferior conj	-33 Aug 30 j 23:37	4° \mathbb{M} 08'05	-8°-47'-12
minimum elong	-35 Apr 13 j 09:54	20° \mathcal{V} 38'31	0°52'01	minimum elong	-33 Aug 31 j 01:18	4° \mathbb{M} 05'31	8°47'11
max. Earth dist.	-35 Apr 14 j 16:54	22° \mathcal{V} 13'52	1.73395 AU	min. Earth dist.	-33 Aug 31 j 16:59	3° \mathbb{M} 41'29	0.27858 AU
	-35 Apr 21 j 00:30	0° \mathcal{E}		morning rise	-33 Sep 03 j 03:36	2° \mathbb{M} 12'38	
asc. node	-35 May 06 j 19:51	19° \mathcal{E} 24'56			-33 Sep 07 j 01:44	30° Ω	
	-35 May 15 j 10:52	0° \mathbb{I}		direct	-33 Sep 21 j 02:03	26° Ω 07'16	
evening rise	-35 May 19 j 20:29	5° \mathbb{I} 23'55		greatest brilliancy	-33 Oct 05 j 07:58	29° Ω 46'33	-4.6m
	-35 Jun 08 j 22:11	0° \mathcal{E}			-33 Oct 05 j 19:00	0° \mathbb{M}	
	-35 Jul 03 j 10:31	0° Ω		asc. node	-33 Oct 22 j 14:45	11° \mathbb{M} 24'52	
	-35 Jul 28 j 00:56	0° \mathbb{M}		morning max el	-33 Nov 10 j 18:07	29° \mathbb{M} 17'40	46°51'49
	-35 Aug 21 j 19:24	0° \mathcal{E}			-33 Nov 11 j 10:40	0° \mathcal{E}	
desc. node	-35 Aug 26 j 09:37	5° \mathcal{E} 31'48			-33 Dec 08 j 20:03	0° \mathbb{M}	
	-35 Sep 15 j 20:44	0° \mathbb{M}			-32 Jan 03 j 09:44	0° \mathcal{Z}	
	-35 Oct 11 j 10:26	0° \mathcal{Z}			-32 Jan 28 j 08:13	0° \mathcal{Z}	
	-35 Nov 07 j 04:27	0° \mathcal{Z}		desc. node	-32 Feb 11 j 04:45	16° \mathcal{Z} 48'23	
evening max el	-35 Nov 17 j 11:50	10° \mathcal{Z} 49'58	47°23'26		-32 Feb 22 j 01:02	0° \approx	
	-35 Dec 08 j 00:38	0° \approx			-32 Mar 17 j 15:48	0° \mathcal{H}	
asc. node	-35 Dec 17 j 12:25	7° \approx 03'14			-32 Apr 11 j 05:50	0° \mathcal{V}	
greatest brilliancy	-35 Dec 25 j 06:21	11° \approx 26'07	-4.7m		-32 May 05 j 19:13	0° \mathcal{E}	
retrograde	-34 Jan 07 j 12:23	14° \approx 42'29		morning set	-32 May 14 j 08:30	10° \mathcal{E} 27'48	
evening set	-34 Jan 24 j 11:27	9° \approx 01'26			-32 May 30 j 07:13	0° \mathbb{I}	
min. Earth dist.	-34 Jan 27 j 11:04	7° \approx 10'39	0.27616 AU	asc. node	-32 Jun 03 j 07:41	4° \mathbb{I} 55'49	
inferior conj	-34 Jan 28 j 09:48	6° \approx 34'48	8°09'32	max. Earth dist.	-32 Jun 17 j 00:42	21° \mathbb{I} 46'41	1.73482 AU
minimum elong	-34 Jan 28 j 03:09	6° \approx 45'17	8°08'50				
morning rise	-34 Jan 31 j 19:14	4° \approx 28'36		superior conj	-32 Jun 19 j 15:30	24° \mathbb{I} 59'56	0°37'22
	-34 Feb 10 j 02:02	30° \mathcal{Z}		minimum elong	-32 Jun 19 j 08:43	24° \mathbb{I} 39'02	0°37'05
direct	-34 Feb 18 j 03:36	28° \mathcal{Z} 40'47			-32 Jun 23 j 16:58	0° \mathcal{E}	
	-34 Feb 26 j 12:38	0° \approx			-32 Jul 18 j 00:10	0° Ω	
greatest brilliancy	-34 Feb 28 j 16:34	0° \approx 44'00	-4.6m	evening rise	-32 Jul 25 j 09:42	9° Ω 09'14	
morning max el	-34 Apr 08 j 07:58	29° \approx 22'09	46°02'29		-32 Aug 11 j 05:32	0° \mathbb{M}	
desc. node	-34 Apr 08 j 02:17	29° \approx 08'26			-32 Sep 04 j 10:28	0° \mathcal{E}	
	-34 Apr 08 j 23:37	0° \mathcal{H}		desc. node	-32 Sep 22 j 21:32	22° \mathcal{E} 51'07	
	-34 May 07 j 19:49	0° \mathcal{V}			-32 Sep 28 j 16:22	0° \mathbb{M}	
	-34 Jun 03 j 13:12	0° \mathcal{E}			-32 Oct 23 j 00:35	0° \mathcal{Z}	
	-34 Jun 29 j 07:08	0° \mathbb{I}			-32 Nov 16 j 13:26	0° \mathcal{Z}	
	-34 Jul 24 j 09:25	0° \mathcal{E}			-32 Dec 11 j 12:40	0° \approx	
asc. node	-34 Jul 30 j 05:20	7° \mathcal{E} 03'48			-31 Jan 06 j 12:28	0° \mathcal{H}	
	-34 Aug 17 j 23:24	0° Ω		asc. node	-31 Jan 14 j 00:24	8° \mathcal{H} 15'07	
	-34 Sep 11 j 04:02	0° \mathbb{M}		evening max el	-31 Jan 27 j 17:55	22° \mathcal{H} 36'44	46°26'30
greatest brilliancy	-34 Sep 22 j 01:33	13° \mathbb{M} 37'16	-3.9m		-31 Feb 04 j 08:16	0° \mathcal{V}	
morning set	-34 Oct 02 j 17:34	27° \mathbb{M} 00'16		greatest brilliancy	-31 Mar 04 j 00:32	20° \mathcal{V} 50'16	-4.6m
	-34 Oct 05 j 02:47	0° \mathcal{E}		retrograde	-31 Mar 18 j 17:10	24° \mathcal{V} 42'26	
	-34 Oct 28 j 22:51	0° \mathbb{M}		evening set	-31 Apr 04 j 05:14	19° \mathcal{V} 24'32	
				inferior conj	-31 Apr 09 j 02:08	16° \mathcal{V} 24'22	5°40'42

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

minimum elong	-31 Apr 09 j 11:33	16°♃09'30	5°38'40			-29 Oct 13 j 20:29	0°♍	
min. Earth dist.	-31 Apr 09 j 05:42	16°♃18'44	0.28901 AU	desc. node		-29 Oct 21 j 09:24	9°♍26'39	
morning rise	-31 Apr 14 j 18:00	12°♃56'52				-29 Nov 06 j 19:28	0°♁	
direct	-31 Apr 30 j 13:04	8°♃06'37				-29 Nov 30 j 19:57	0°♁	
desc. node	-31 May 05 j 14:00	8°♃35'19				-29 Dec 24 j 23:47	0°♁	
greatest brilliancy	-31 May 13 j 08:21	10°♃59'47	-4.5m			-28 Jan 18 j 10:38	0°♁	
	-31 Jun 09 j 18:59	0°♁		asc. node		-28 Feb 11 j 12:16	28°♁52'30	
morning max el	-31 Jun 18 j 08:27	7°♁51'54	45°45'17			-28 Feb 12 j 11:09	0°♃	
	-31 Jul 10 j 03:02	0°♁				-28 Mar 09 j 13:34	0°♁	
	-31 Aug 06 j 02:26	0°♁				-28 Apr 07 j 01:18	0°♁	
asc. node	-31 Aug 26 j 17:19	24°♁08'21		evening max el		-28 Apr 08 j 16:16	1°♁34'25	45°24'21
	-31 Aug 31 j 15:03	0°♁		greatest brilliancy		-28 May 13 j 01:13	27°♁46'45	-4.5m
	-31 Sep 25 j 07:21	0°♁				-28 May 18 j 22:30	0°♁	
	-31 Oct 19 j 11:42	0°♁		retrograde		-28 May 27 j 03:32	1°♁13'36	
	-31 Nov 12 j 10:08	0°♁		desc. node		-28 Jun 02 j 01:59	0°♁32'16	
	-31 Dec 06 j 06:48	0°♁				-28 Jun 04 j 01:26	30°♁	
desc. node	-31 Dec 16 j 06:57	12°♁34'25		evening set		-28 Jun 11 j 07:01	26°♁50'49	
morning set	-31 Dec 17 j 16:39	14°♁20'16		inferior conj		-28 Jun 17 j 14:33	23°♁04'43	-3°-32'-2
	-31 Dec 30 j 04:02	0°♁		minimum elong		-28 Jun 17 j 07:18	23°♁16'02	3°30'06
	-30 Jan 23 j 02:59	0°♁		min. Earth dist.		-28 Jun 17 j 17:09	23°♁00'39	0.28902 AU
				morning rise		-28 Jun 23 j 07:22	19°♁38'21	
superior conj	-30 Jan 28 j 09:48	6°♁36'10	-1°-19'-34	direct		-28 Jul 09 j 07:24	14°♁47'51	
minimum elong	-30 Jan 28 j 01:57	6°♁11'38	1°19'26	greatest brilliancy		-28 Jul 23 j 11:24	18°♁17'55	-4.5m
max. Earth dist.	-30 Feb 01 j 09:06	11°♁33'35	1.71884 AU			-28 Aug 10 j 10:19	0°♁	
	-30 Feb 16 j 04:26	0°♁		morning max el		-28 Aug 27 j 16:29	15°♁30'54	46°11'40
evening rise	-30 Mar 09 j 04:42	26°♁03'19				-28 Sep 10 j 19:38	0°♁	
	-30 Mar 12 j 09:20	0°♃		asc. node		-28 Sep 23 j 05:04	13°♁34'10	
	-30 Apr 05 j 18:35	0°♁				-28 Oct 07 j 13:41	0°♁	
asc. node	-30 Apr 08 j 10:05	3°♁14'22				-28 Nov 01 j 17:33	0°♁	
	-30 Apr 30 j 08:56	0°♁				-28 Nov 26 j 04:37	0°♁	
	-30 May 25 j 05:19	0°♁				-28 Dec 20 j 09:00	0°♁	
	-30 Jun 19 j 09:54	0°♁		desc. node		-27 Jan 12 j 18:58	29°♁07'54	
	-30 Jul 15 j 03:33	0°♁				-27 Jan 13 j 11:43	0°♁	
desc. node	-30 Jul 28 j 23:42	15°♁43'15				-27 Feb 06 j 15:01	0°♁	
	-30 Aug 10 j 21:38	0°♁				-27 Mar 02 j 19:52	0°♁	
evening max el	-30 Sep 03 j 10:02	24°♁29'10	46°47'00	morning set		-27 Mar 03 j 16:38	1°♁04'14	
	-30 Sep 09 j 03:49	0°♁				-27 Mar 27 j 02:41	0°♃	
greatest brilliancy	-30 Oct 12 j 12:10	24°♁07'06	-4.7m					
retrograde	-30 Oct 23 j 12:40	26°♁22'03		superior conj		-27 Apr 10 j 17:30	18°♃00'21	0°-54'-54
evening set	-30 Nov 07 j 01:26	22°♁10'47		minimum elong		-27 Apr 11 j 02:46	18°♃28'52	0°54'35
inferior conj	-30 Nov 13 j 00:21	18°♁42'14	-1°-34'-38	max. Earth dist.		-27 Apr 12 j 12:43	20°♃13'19	1.73358 AU
minimum elong	-30 Nov 13 j 03:56	18°♁36'47	1°33'30			-27 Apr 20 j 11:30	0°♁	
min. Earth dist.	-30 Nov 13 j 01:21	18°♁40'42	0.26365 AU	asc. node		-27 May 05 j 21:55	18°♁57'34	
morning rise	-30 Nov 19 j 06:27	15°♁04'54				-27 May 14 j 21:52	0°♁	
asc. node	-30 Nov 19 j 02:34	15°♁10'01		evening rise		-27 May 17 j 15:04	3°♁19'56	
direct	-30 Dec 03 j 08:55	11°♁06'23				-27 Jun 08 j 09:18	0°♁	
greatest brilliancy	-30 Dec 15 j 10:29	13°♁50'57	-4.7m			-27 Jul 02 j 21:54	0°♁	
	-29 Jan 07 j 22:38	0°♁				-27 Jul 27 j 12:48	0°♁	
morning max el	-29 Jan 22 j 19:36	14°♁04'30	46°45'26			-27 Aug 21 j 08:01	0°♁	
	-29 Feb 07 j 01:32	0°♁		desc. node		-27 Aug 25 j 11:38	4°♁59'30	
	-29 Mar 05 j 22:20	0°♁				-27 Sep 15 j 10:29	0°♁	
desc. node	-29 Mar 10 j 16:36	5°♁28'14				-27 Oct 11 j 02:08	0°♁	
	-29 Mar 31 j 18:08	0°♁				-27 Nov 07 j 00:26	0°♁	
	-29 Apr 26 j 02:26	0°♃		evening max el		-27 Nov 15 j 01:34	8°♁24'15	47°23'48
	-29 May 21 j 03:47	0°♁				-27 Dec 08 j 15:21	0°♁	
	-29 Jun 14 j 23:16	0°♁		asc. node		-27 Dec 16 j 14:37	5°♁36'13	
asc. node	-29 Jul 01 j 19:36	20°♁32'37		greatest brilliancy		-27 Dec 22 j 23:25	9°♁05'16	-4.7m
	-29 Jul 09 j 12:42	0°♁		retrograde		-26 Jan 05 j 02:25	12°♁18'47	
morning set	-29 Jul 21 j 19:29	15°♁07'25		evening set		-26 Jan 21 j 22:21	6°♁43'35	
	-29 Aug 02 j 20:05	0°♁		min. Earth dist.		-26 Jan 25 j 01:09	4°♁48'15	0.27548 AU
max. Earth dist.	-29 Aug 23 j 22:43	26°♁15'59	1.72113 AU	inferior conj		-26 Jan 25 j 23:57	4°♁12'21	8°01'52
	-29 Aug 26 j 22:31	0°♁		minimum elong		-26 Jan 25 j 16:40	4°♁23'49	8°00'59
				morning rise		-26 Jan 29 j 11:20	2°♁03'11	
superior conj	-29 Aug 27 j 15:03	0°♁51'37	1°24'33			-26 Feb 02 j 02:47	30°♁	
minimum elong	-29 Aug 27 j 15:38	0°♁53'27	1°24'33	direct		-26 Feb 15 j 16:27	26°♁19'19	
	-29 Sep 19 j 21:58	0°♁		greatest brilliancy		-26 Feb 26 j 06:20	28°♁23'00	-4.6m
evening rise	-29 Oct 05 j 03:37	19°♁05'27				-26 Mar 02 j 01:19	0°♁	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

morning max el	-26 Apr 05 j 21:10	27°≈01'45	46°03'50	desc. node	-24 Sep 21 j 23:33	22°♁21'32	
desc. node	-26 Apr 07 j 04:20	28°≈17'21			-24 Sep 28 j 04:03	0°♁	
	-26 Apr 08 j 22:12	0°♁			-24 Oct 22 j 12:45	0°♁	
	-26 May 07 j 11:51	0°♁			-24 Nov 16 j 02:20	0°♁	
	-26 Jun 03 j 02:48	0°♁			-24 Dec 11 j 02:48	0°≈	
	-26 Jun 28 j 19:29	0°♁			-23 Jan 06 j 05:17	0°♁	
	-26 Jul 23 j 21:05	0°♁		asc. node	-23 Jan 13 j 02:26	7°♁31'39	
asc. node	-26 Jul 29 j 07:27	6°♁35'07		evening max el	-23 Jan 25 j 09:57	20°♁22'23	46°29'08
	-26 Aug 17 j 10:42	0°♁			-23 Feb 04 j 09:58	0°♁	
	-26 Sep 10 j 15:11	0°♁		greatest brilliancy	-23 Mar 01 j 17:12	18°♁39'13	-4.6m
greatest brilliancy	-26 Sep 23 j 05:40	15°♁45'42	-3.9m	retrograde	-23 Mar 16 j 10:15	22°♁31'28	
morning set	-26 Sep 30 j 07:16	24°♁37'37		evening set	-23 Apr 02 j 00:12	17°♁09'29	
	-26 Oct 04 j 13:54	0°♁		inferior conj	-23 Apr 06 j 18:23	14°♁13'09	5°55'25
	-26 Oct 28 j 10:01	0°♁		minimum elong	-23 Apr 07 j 03:52	13°♁58'10	5°53'26
				min. Earth dist.	-23 Apr 06 j 21:06	14°♁08'51	0.28885 AU
superior conj	-26 Nov 09 j 05:46	14°♁53'37	0°20'23	morning rise	-23 Apr 12 j 07:45	10°♁49'25	
minimum elong	-26 Nov 09 j 11:02	15°♁10'11	0°20'08	direct	-23 Apr 28 j 05:17	5°♁55'49	
max. Earth dist.	-26 Nov 09 j 15:55	15°♁25'31	1.71021 AU	desc. node	-23 May 04 j 16:06	6°♁42'32	
desc. node	-26 Nov 17 j 21:16	25°♁46'45		greatest brilliancy	-23 May 10 j 21:57	8°♁46'56	-4.5m
	-26 Nov 21 j 05:46	0°♁			-23 Jun 09 j 21:07	0°♁	
	-26 Dec 15 j 02:28	0°♁		morning max el	-23 Jun 16 j 01:20	5°♁44'18	45°45'03
evening rise	-26 Dec 21 j 02:11	7°♁30'43			-23 Jul 09 j 19:38	0°♁	
	-25 Jan 08 j 01:14	0°≈			-23 Aug 05 j 16:09	0°♁	
	-25 Feb 01 j 03:39	0°♁		asc. node	-23 Aug 25 j 19:13	23°♁36'25	
	-25 Feb 25 j 12:04	0°♁			-23 Aug 31 j 03:29	0°♁	
asc. node	-25 Mar 11 j 00:12	16°♁27'15			-23 Sep 24 j 19:09	0°♁	
	-25 Mar 22 j 05:36	0°♁			-23 Oct 18 j 23:07	0°♁	
	-25 Apr 16 j 12:32	0°♁			-23 Nov 11 j 21:21	0°♁	
	-25 May 12 j 16:49	0°♁			-23 Dec 05 j 17:54	0°♁	
	-25 Jun 09 j 15:32	0°♁		morning set	-23 Dec 15 j 02:40	11°♁46'17	
evening max el	-25 Jun 19 j 15:00	9°♁50'51	45°32'53	desc. node	-23 Dec 15 j 09:08	12°♁06'34	
desc. node	-25 Jun 30 j 14:00	19°♁49'39			-23 Dec 29 j 15:03	0°♁	
	-25 Jul 13 j 15:08	0°♁			-22 Jan 22 j 13:56	0°≈	
greatest brilliancy	-25 Jul 27 j 06:23	7°♁26'02	-4.5m				
retrograde	-25 Aug 07 j 11:34	9°♁41'04		superior conj	-22 Jan 25 j 21:12	4°≈07'43	-1°-18'-6
evening set	-25 Aug 25 j 12:16	3°♁40'27		minimum elong	-22 Jan 25 j 12:35	3°≈40'47	1°17'57
inferior conj	-25 Aug 28 j 13:46	1°♁49'27	-8°-47'-55	max. Earth dist.	-22 Jan 29 j 21:59	9°≈09'53	1.71836 AU
minimum elong	-25 Aug 28 j 14:33	1°♁48'15	8°47'56		-22 Feb 15 j 15:20	0°♁	
min. Earth dist.	-25 Aug 29 j 06:22	1°♁24'03	0.27917 AU	evening rise	-22 Mar 06 j 18:37	23°♁44'14	
morning rise	-25 Aug 31 j 16:37	29°♁55'51			-22 Mar 11 j 20:14	0°♁	
	-25 Aug 31 j 13:50	30°♁			-22 Apr 05 j 05:35	0°♁	
direct	-25 Sep 18 j 17:00	23°♁47'38		asc. node	-22 Apr 07 j 12:07	2°♁46'53	
greatest brilliancy	-25 Oct 03 j 00:30	27°♁29'07	-4.6m		-22 Apr 29 j 20:12	0°♁	
	-25 Oct 07 j 15:49	0°♁			-22 May 24 j 17:05	0°♁	
asc. node	-25 Oct 21 j 16:48	10°♁17'50			-22 Jun 18 j 22:32	0°♁	
morning max el	-25 Nov 08 j 09:13	26°♁56'59	46°50'59		-22 Jul 14 j 17:47	0°♁	
	-25 Nov 11 j 08:19	0°♁		desc. node	-22 Jul 28 j 01:42	15°♁05'09	
	-25 Dec 08 j 12:08	0°♁			-22 Aug 10 j 15:07	0°♁	
	-24 Jan 02 j 23:42	0°♁		evening max el	-22 Sep 01 j 00:13	22°♁08'09	46°44'24
	-24 Jan 27 j 21:03	0°♁			-22 Sep 09 j 07:05	0°♁	
desc. node	-24 Feb 10 j 06:44	16°♁16'39		greatest brilliancy	-22 Oct 10 j 02:03	21°♁40'05	-4.6m
	-24 Feb 21 j 13:10	0°≈		retrograde	-22 Oct 21 j 00:37	23°♁52'29	
	-24 Mar 17 j 03:26	0°♁		evening set	-22 Nov 04 j 15:16	19°♁39'36	
	-24 Apr 10 j 17:06	0°♁		inferior conj	-22 Nov 10 j 12:21	16°♁13'20	-1°-58'-53
	-24 May 05 j 06:12	0°♁		minimum elong	-22 Nov 10 j 16:50	16°♁06'32	1°57'29
morning set	-24 May 12 j 02:29	8°♁22'29		min. Earth dist.	-22 Nov 10 j 14:52	16°♁09'31	0.26373 AU
	-24 May 29 j 18:04	0°♁		morning rise	-22 Nov 16 j 18:21	12°♁35'54	
asc. node	-24 Jun 02 j 09:49	4°♁29'08		asc. node	-22 Nov 18 j 04:42	11°♁52'21	
max. Earth dist.	-24 Jun 14 j 23:37	19°♁56'12	1.73508 AU	direct	-22 Nov 30 j 21:29	8°♁37'32	
				greatest brilliancy	-22 Dec 13 j 00:00	11°♁23'00	-4.7m
superior conj	-24 Jun 17 j 09:55	22°♁55'32	0°34'33		-21 Jan 08 j 05:23	0°♁	
minimum elong	-24 Jun 17 j 03:32	22°♁35'53	0°34'15	morning max el	-21 Jan 20 j 08:25	11°♁38'37	46°46'31
	-24 Jun 23 j 03:48	0°♁			-21 Feb 06 j 19:46	0°♁	
	-24 Jul 17 j 11:06	0°♁			-21 Mar 05 j 12:56	0°≈	
evening rise	-24 Jul 23 j 03:50	7°♁02'57		desc. node	-21 Mar 09 j 18:38	4°≈53'02	
	-24 Aug 10 j 16:38	0°♁			-21 Mar 31 j 07:01	0°♁	
	-24 Sep 03 j 21:48	0°♁			-21 Apr 25 j 14:22	0°♁	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-21 May 20 j 15:08	0°♄		greatest brilliancy	-19 Dec 20 j 15:34	6°♁44'10	-4.7m
	-21 Jun 14 j 10:16	0°♁		retrograde	-18 Jan 02 j 16:38	9°♁56'17	
asc. node	-21 Jun 30 j 21:39	20°♁05'45		evening set	-18 Jan 19 j 09:06	4°♁26'42	
	-21 Jul 08 j 23:29	0°♁		min. Earth dist.	-18 Jan 22 j 15:09	2°♁26'54	0.27479 AU
morning set	-21 Jul 19 j 12:42	12°♁59'20		inferior conj	-18 Jan 23 j 14:05	1°♁50'52	7°53'14
	-21 Aug 02 j 06:48	0°♁		minimum elong	-18 Jan 23 j 06:14	2°♁03'13	7°52'11
max. Earth dist.	-21 Aug 21 j 11:15	23°♁51'54	1.72171 AU		-18 Jan 26 j 13:30	30°♁	
				morning rise	-18 Jan 27 j 03:41	29°♁38'36	
superior conj	-21 Aug 25 j 07:01	28°♁38'07	1°24'34	direct	-18 Feb 13 j 05:16	23°♁58'42	
minimum elong	-21 Aug 25 j 06:50	28°♁37'34	1°24'35	greatest brilliancy	-18 Feb 23 j 20:26	26°♁03'32	-4.6m
	-21 Aug 26 j 09:15	0°♁			-18 Mar 04 j 00:04	0°♁	
	-21 Sep 19 j 08:51	0°♁		morning max el	-18 Apr 03 j 11:11	24°♁44'33	46°05'22
evening rise	-21 Oct 02 j 15:54	16°♁39'10		desc. node	-18 Apr 06 j 06:25	27°♁28'40	
	-21 Oct 13 j 07:32	0°♁			-18 Apr 08 j 19:24	0°♁	
desc. node	-21 Oct 20 j 11:31	8°♁58'37			-18 May 07 j 03:09	0°♁	
	-21 Nov 06 j 06:40	0°♁			-18 Jun 02 j 15:49	0°♁	
	-21 Nov 30 j 07:21	0°♁			-18 Jun 28 j 07:24	0°♁	
	-21 Dec 24 j 11:26	0°♁			-18 Jul 23 j 08:25	0°♁	
	-20 Jan 17 j 22:45	0°♁		asc. node	-18 Jul 28 j 09:25	6°♁06'50	
asc. node	-20 Feb 10 j 14:15	28°♁19'56			-18 Aug 16 j 21:44	0°♁	
	-20 Feb 12 j 00:14	0°♁			-18 Sep 10 j 02:06	0°♁	
	-20 Mar 09 j 04:49	0°♁		greatest brilliancy	-18 Sep 24 j 12:24	18°♁03'07	-3.9m
evening max el	-20 Apr 06 j 07:20	29°♁22'18	45°25'19	morning set	-18 Sep 27 j 20:54	22°♁15'35	
	-20 Apr 06 j 23:01	0°♁			-18 Oct 04 j 00:48	0°♁	
greatest brilliancy	-20 May 10 j 16:12	25°♁36'57	-4.5m		-18 Oct 27 j 20:55	0°♁	
retrograde	-20 May 24 j 19:06	29°♁05'20					
desc. node	-20 Jun 01 j 04:09	28°♁01'22		superior conj	-18 Nov 06 j 15:55	12°♁20'01	0°24'12
evening set	-20 Jun 08 j 22:13	24°♁43'36		minimum elong	-18 Nov 06 j 22:04	12°♁39'24	0°23'55
inferior conj	-20 Jun 15 j 06:48	20°♁56'09	-3°-13'-43	max. Earth dist.	-18 Nov 06 j 23:42	12°♁44'32	1.71032 AU
minimum elong	-20 Jun 15 j 00:05	21°♁06'38	3°11'54	desc. node	-18 Nov 16 j 23:24	25°♁19'03	
min. Earth dist.	-20 Jun 15 j 09:53	20°♁51'20	0.28917 AU		-18 Nov 20 j 16:42	0°♁	
morning rise	-20 Jun 21 j 01:40	17°♁26'34			-18 Dec 14 j 13:27	0°♁	
direct	-20 Jul 06 j 23:17	12°♁38'57		evening rise	-18 Dec 18 j 11:53	4°♁56'12	
greatest brilliancy	-20 Jul 21 j 03:07	16°♁07'54	-4.5m		-17 Jan 07 j 12:18	0°♁	
	-20 Aug 10 j 18:01	0°♁			-17 Jan 31 j 14:49	0°♁	
morning max el	-20 Aug 25 j 06:43	13°♁14'44	46°10'14		-17 Feb 24 j 23:26	0°♁	
	-20 Sep 10 j 13:17	0°♁		asc. node	-17 Mar 10 j 02:19	15°♁58'38	
asc. node	-20 Sep 22 j 07:12	12°♁55'58			-17 Mar 21 j 17:23	0°♁	
	-20 Oct 07 j 03:55	0°♁			-17 Apr 16 j 01:14	0°♁	
	-20 Nov 01 j 06:22	0°♁			-17 May 12 j 07:28	0°♁	
	-20 Nov 25 j 16:42	0°♁			-17 Jun 09 j 11:11	0°♁	
	-20 Dec 19 j 20:38	0°♁		evening max el	-17 Jun 17 j 05:54	7°♁37'32	45°31'14
desc. node	-19 Jan 11 j 20:54	28°♁38'48		desc. node	-17 Jun 29 j 15:56	18°♁50'18	
	-19 Jan 12 j 23:00	0°♁			-17 Jul 14 j 16:28	0°♁	
	-19 Feb 06 j 02:01	0°♁		greatest brilliancy	-17 Jul 24 j 16:13	5°♁05'18	-4.5m
morning set	-19 Mar 01 j 06:46	28°♁46'06		retrograde	-17 Aug 05 j 01:44	7°♁23'56	
	-19 Mar 02 j 06:39	0°♁		evening set	-17 Aug 23 j 01:21	1°♁23'51	
	-19 Mar 26 j 13:20	0°♁			-17 Aug 25 j 09:03	30°♁	
				inferior conj	-17 Aug 26 j 03:51	29°♁31'16	-8°-47'-44
superior conj	-19 Apr 08 j 10:22	15°♁52'03	0°-57'-23	minimum elong	-17 Aug 26 j 03:46	29°♁31'23	8°47'45
minimum elong	-19 Apr 08 j 19:47	16°♁21'01	0°57'03	min. Earth dist.	-17 Aug 26 j 19:24	29°♁07'29	0.27979 AU
max. Earth dist.	-19 Apr 10 j 07:58	18°♁12'21	1.73323 AU	morning rise	-17 Aug 29 j 06:00	27°♁38'46	
	-19 Apr 19 j 22:05	0°♁		direct	-17 Sep 16 j 08:26	21°♁28'36	
asc. node	-19 May 05 j 00:05	18°♁31'46		greatest brilliancy	-17 Sep 30 j 16:25	25°♁11'16	-4.6m
	-19 May 14 j 08:29	0°♁			-17 Oct 08 j 22:12	0°♁	
evening rise	-19 May 15 j 09:44	1°♁17'25		asc. node	-17 Oct 20 j 18:56	9°♁12'51	
	-19 Jun 07 j 20:05	0°♁		morning max el	-17 Nov 06 j 00:34	24°♁37'19	46°50'06
	-19 Jul 02 j 09:00	0°♁			-17 Nov 11 j 05:08	0°♁	
	-19 Jul 27 j 00:25	0°♁			-17 Dec 08 j 03:51	0°♁	
	-19 Aug 20 j 20:24	0°♁			-16 Jan 02 j 13:22	0°♁	
desc. node	-19 Aug 24 j 13:39	4°♁27'57		desc. node	-16 Jan 27 j 09:38	0°♁	
	-19 Sep 15 j 00:02	0°♁			-16 Feb 09 j 08:47	15°♁45'51	
	-19 Oct 10 j 17:43	0°♁			-16 Feb 21 j 01:03	0°♁	
	-19 Nov 06 j 20:37	0°♁			-16 Mar 16 j 14:50	0°♁	
evening max el	-19 Nov 12 j 15:06	5°♁59'10	47°24'12		-16 Apr 10 j 04:07	0°♁	
	-19 Dec 09 j 10:22	0°♁			-16 May 04 j 16:58	0°♁	
asc. node	-19 Dec 15 j 16:40	4°♁07'05		morning set	-16 May 09 j 20:52	6°♁19'01	

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-16 May 29 j 04:41	0°♁		morning rise	-14 Nov 14 j 06:04	10°♁06'52	
asc. node	-16 Jun 01 j 11:53	4°♁02'55		asc. node	-14 Nov 17 j 06:47	8°♁38'40	
max. Earth dist.	-16 Jun 12 j 23:13	18°♁08'33	1.73529 AU	direct	-14 Nov 28 j 09:44	6°♁08'03	
				greatest brilliancy	-14 Dec 10 j 14:52	8°♁55'48	-4.7m
superior conj	-16 Jun 15 j 04:43	20°♁53'04	0°31'42		-13 Jan 08 j 10:29	0°♁	
minimum elong	-16 Jun 14 j 22:46	20°♁34'45	0°31'26	morning max el	-13 Jan 17 j 20:30	9°♁09'32	46°47'33
	-16 Jun 22 j 14:25	0°♁			-13 Feb 06 j 13:57	0°♁	
evening rise	-16 Jul 16 j 21:49	0°♁			-13 Mar 05 j 03:41	0°♁	
	-16 Jul 20 j 22:22	4°♁58'32		desc. node	-13 Mar 08 j 20:49	4°♁17'37	
	-16 Aug 10 j 03:35	0°♁			-13 Mar 30 j 20:05	0°♁	
	-16 Sep 03 j 09:04	0°♁			-13 Apr 25 j 02:28	0°♁	
desc. node	-16 Sep 21 j 01:42	21°♁52'28			-13 May 20 j 02:39	0°♁	
	-16 Sep 27 j 15:43	0°♁			-13 Jun 13 j 21:26	0°♁	
	-16 Oct 22 j 00:58	0°♁		asc. node	-13 Jun 29 j 23:39	19°♁38'12	
	-16 Nov 15 j 15:19	0°♁			-13 Jul 08 j 10:27	0°♁	
	-16 Dec 10 j 17:04	0°♁		morning set	-13 Jul 17 j 06:21	10°♁52'07	
	-15 Jan 05 j 22:22	0°♁			-13 Aug 01 j 17:41	0°♁	
asc. node	-15 Jan 12 j 04:25	6°♁47'44		max. Earth dist.	-13 Aug 19 j 02:43	21°♁36'32	1.72227 AU
evening max el	-15 Jan 23 j 02:14	18°♁08'45	46°31'51				
	-15 Feb 04 j 13:00	0°♁		superior conj	-13 Aug 22 j 23:39	26°♁26'15	1°24'28
greatest brilliancy	-15 Feb 27 j 11:07	16°♁30'10	-4.6m	minimum elong	-13 Aug 22 j 22:43	26°♁23'21	1°24'27
retrograde	-15 Mar 14 j 03:10	20°♁20'52			-13 Aug 25 j 20:10	0°♁	
evening set	-15 Mar 30 j 19:21	14°♁55'01			-13 Sep 18 j 19:53	0°♁	
inferior conj	-15 Apr 04 j 10:45	12°♁02'28	6°09'40	evening rise	-13 Sep 30 j 04:57	14°♁14'55	
minimum elong	-15 Apr 04 j 20:15	11°♁47'25	6°07'44		-13 Oct 12 j 18:45	0°♁	
min. Earth dist.	-15 Apr 04 j 12:36	11°♁59'32	0.28863 AU	desc. node	-13 Oct 19 j 13:38	8°♁29'59	
morning rise	-15 Apr 09 j 21:26	8°♁42'33			-13 Nov 05 j 18:06	0°♁	
direct	-15 Apr 25 j 21:50	3°♁45'43			-13 Nov 29 j 19:01	0°♁	
desc. node	-15 May 03 j 18:14	4°♁54'21			-13 Dec 23 j 23:26	0°♁	
greatest brilliancy	-15 May 08 j 10:52	6°♁33'39	-4.5m		-12 Jan 17 j 11:19	0°♁	
	-15 Jun 09 j 21:44	0°♁		asc. node	-12 Feb 09 j 16:25	27°♁46'28	
morning max el	-15 Jun 13 j 17:42	3°♁35'52	45°44'57		-12 Feb 11 j 13:51	0°♁	
	-15 Jul 09 j 11:46	0°♁			-12 Mar 08 j 20:45	0°♁	
	-15 Aug 05 j 05:36	0°♁		evening max el	-12 Apr 03 j 21:50	27°♁07'46	45°26'38
asc. node	-15 Aug 24 j 21:25	23°♁05'49			-12 Apr 06 j 22:05	0°♁	
	-15 Aug 30 j 15:46	0°♁		greatest brilliancy	-12 May 08 j 06:21	23°♁25'17	-4.5m
	-15 Sep 24 j 06:51	0°♁		retrograde	-12 May 22 j 11:07	26°♁56'38	
	-15 Oct 18 j 10:33	0°♁		desc. node	-12 May 31 j 06:08	25°♁25'33	
	-15 Nov 11 j 08:39	0°♁		evening set	-12 Jun 06 j 13:40	22°♁35'25	
	-15 Dec 05 j 05:07	0°♁		inferior conj	-12 Jun 12 j 23:09	18°♁46'59	-2°-55'-9
morning set	-15 Dec 12 j 12:15	9°♁10'28		minimum elong	-12 Jun 12 j 17:00	18°♁56'35	2°53'28
desc. node	-15 Dec 14 j 11:08	11°♁37'45		min. Earth dist.	-12 Jun 13 j 02:37	18°♁41'35	0.28929 AU
	-15 Dec 29 j 02:12	0°♁		morning rise	-12 Jun 18 j 19:59	15°♁14'32	
	-14 Jan 22 j 00:59	0°♁		direct	-12 Jul 04 j 15:07	10°♁29'19	
				greatest brilliancy	-12 Jul 18 j 19:55	13°♁58'44	-4.5m
superior conj	-14 Jan 23 j 08:06	1°♁37'16	-1°-16'-27		-12 Aug 10 j 23:46	0°♁	
minimum elong	-14 Jan 22 j 22:46	1°♁08'08	1°16'16	morning max el	-12 Aug 22 j 21:45	10°♁59'59	46°09'00
max. Earth dist.	-14 Jan 27 j 11:34	6°♁47'59	1.71781 AU		-12 Sep 10 j 06:47	0°♁	
	-14 Feb 15 j 02:19	0°♁		asc. node	-12 Sep 21 j 09:17	12°♁17'19	
evening rise	-14 Mar 04 j 08:12	21°♁23'48			-12 Oct 06 j 18:14	0°♁	
	-14 Mar 11 j 07:13	0°♁			-12 Oct 31 j 19:20	0°♁	
	-14 Apr 04 j 16:41	0°♁			-12 Nov 25 j 04:59	0°♁	
asc. node	-14 Apr 06 j 14:17	2°♁19'33			-12 Dec 19 j 08:30	0°♁	
	-14 Apr 29 j 07:34	0°♁		desc. node	-11 Jan 10 j 22:59	28°♁09'11	
	-14 May 24 j 04:56	0°♁			-11 Jan 12 j 10:35	0°♁	
	-14 Jun 18 j 11:16	0°♁			-11 Feb 05 j 13:24	0°♁	
	-14 Jul 14 j 08:09	0°♁		morning set	-11 Feb 26 j 20:18	26°♁24'38	
desc. node	-14 Jul 27 j 03:47	14°♁27'02			-11 Mar 01 j 17:51	0°♁	
	-14 Aug 10 j 08:58	0°♁			-11 Mar 26 j 00:24	0°♁	
evening max el	-14 Aug 29 j 13:23	19°♁44'48	46°41'36				
	-14 Sep 09 j 12:06	0°♁		superior conj	-11 Apr 06 j 02:44	13°♁40'48	0°-59'-48
greatest brilliancy	-14 Oct 07 j 16:20	19°♁13'27	-4.6m	minimum elong	-11 Apr 06 j 12:15	14°♁10'05	0°59'29
retrograde	-14 Oct 18 j 11:56	21°♁22'52		max. Earth dist.	-11 Apr 08 j 01:34	16°♁04'57	1.73284 AU
evening set	-14 Nov 02 j 05:19	17°♁07'52			-11 Apr 19 j 09:04	0°♁	
inferior conj	-14 Nov 08 j 00:26	13°♁44'14	-2°-22'-53	asc. node	-11 May 04 j 02:04	18°♁04'11	
minimum elong	-14 Nov 08 j 05:46	13°♁36'08	2°21'13	evening rise	-11 May 13 j 04:04	29°♁12'44	
min. Earth dist.	-14 Nov 08 j 04:45	13°♁37'40	0.26393 AU		-11 May 13 j 19:29	0°♁	

Planetary Phenomena of Venus from -101 through 0 (UT), Astrodienst AG 24-Mai-2003 10:50, page 19

Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

	-11 Jun 07 j 07:14	0°☉				-9 Nov 11 j 01:34	0°♁		
	-11 Jul 01 j 20:29	0°♃				-9 Dec 07 j 19:36	0°♄		
	-11 Jul 26 j 12:25	0°♅				-8 Jan 02 j 03:10	0°♆		
	-11 Aug 20 j 09:10	0°♇				-8 Jan 26 j 22:21	0°♈		
desc. node	-11 Aug 23 j 15:49	3°♁55'47			desc. node	-8 Feb 08 j 10:58	15°♉14'55		
	-11 Sep 14 j 13:59	0°♄				-8 Feb 20 j 13:06	0°♊		
	-11 Oct 10 j 09:46	0°♆				-8 Mar 16 j 02:24	0°♋		
	-11 Nov 06 j 17:42	0°♈				-8 Apr 09 j 15:22	0°♌		
evening max el	-11 Nov 10 j 05:12	3°♉35'01	47°24'33			-8 May 04 j 04:00	0°♍		
	-11 Dec 10 j 12:37	0°♊			morning set	-8 May 07 j 15:06	4°♎14'16		
asc. node	-11 Dec 14 j 18:38	2°♋34'03				-8 May 28 j 15:37	0°♏		
greatest brilliancy	-11 Dec 18 j 06:38	4°♋20'58	-4.7m		asc. node	-8 May 31 j 13:55	3°♐35'37		
retrograde	-11 Dec 31 j 07:19	7°♋33'02			max. Earth dist.	-8 Jun 10 j 20:44	16°♐13'33	1.73550 AU	
evening set	-10 Jan 16 j 19:43	2°♌08'51							
min. Earth dist.	-10 Jan 20 j 04:49	0°♌04'58	0.27417 AU		superior conj	-8 Jun 12 j 23:18	18°♐48'58	0°28'47	
	-10 Jan 20 j 07:59	30°♌			minimum elong	-8 Jun 12 j 17:49	18°♐32'08	0°28'32	
inferior conj	-10 Jan 21 j 04:13	29°♌28'19	7°43'35			-8 Jun 22 j 01:21	0°♑		
minimum elong	-10 Jan 20 j 19:50	29°♌41'27	7°42'23			-8 Jul 16 j 08:51	0°♒		
morning rise	-10 Jan 24 j 20:17	27°♌12'44			evening rise	-8 Jul 18 j 16:38	2°♒52'27		
direct	-10 Feb 10 j 18:33	21°♌36'54				-8 Aug 09 j 14:48	0°♓		
greatest brilliancy	-10 Feb 21 j 10:18	23°♌42'40	-4.6m			-8 Sep 02 j 20:35	0°♈		
	-10 Mar 05 j 08:14	0°♍			desc. node	-8 Sep 20 j 03:44	21°♈22'16		
morning max el	-10 Apr 01 j 02:05	22°♍28'07	46°06'42			-8 Sep 27 j 03:39	0°♉		
desc. node	-10 Apr 05 j 08:32	26°♍39'31				-8 Oct 21 j 13:27	0°♊		
	-10 Apr 08 j 16:24	0°♋				-8 Nov 15 j 04:35	0°♌		
	-10 May 06 j 18:44	0°♌				-8 Dec 10 j 07:41	0°♍		
	-10 Jun 02 j 05:14	0°♍				-7 Jan 05 j 15:59	0°♎		
	-10 Jun 27 j 19:42	0°♎			asc. node	-7 Jan 11 j 06:40	6°♎03'24		
	-10 Jul 22 j 20:05	0°♏			evening max el	-7 Jan 20 j 18:01	15°♎53'09	46°34'32	
asc. node	-10 Jul 27 j 11:35	5°♏38'14				-7 Feb 04 j 17:58	0°♏		
	-10 Aug 16 j 09:05	0°♐			greatest brilliancy	-7 Feb 25 j 05:48	14°♏21'37	-4.6m	
	-10 Sep 09 j 13:20	0°♑			retrograde	-7 Mar 11 j 19:43	18°♏09'45		
morning set	-10 Sep 25 j 10:48	19°♑53'29			evening set	-7 Mar 28 j 14:32	12°♑40'14		
	-10 Oct 03 j 12:00	0°♒			inferior conj	-7 Apr 02 j 03:09	9°♑51'26	6°23'14	
	-10 Oct 27 j 08:08	0°♓			minimum elong	-7 Apr 02 j 12:37	9°♑36'26	6°21'24	
					min. Earth dist.	-7 Apr 02 j 04:16	9°♑49'39	0.28840 AU	
superior conj	-10 Nov 04 j 02:27	9°♓46'39	0°27'57		morning rise	-7 Apr 07 j 11:00	6°♑35'21		
minimum elong	-10 Nov 04 j 09:25	10°♓08'35	0°27'36		direct	-7 Apr 23 j 14:12	1°♒35'22		
max. Earth dist.	-10 Nov 04 j 08:29	10°♓05'39	1.71040 AU		desc. node	-7 May 02 j 20:13	3°♒09'32		
desc. node	-10 Nov 16 j 01:23	24°♓49'57			greatest brilliancy	-7 May 05 j 23:39	4°♒19'42	-4.5m	
	-10 Nov 20 j 03:56	0°♈				-7 Jun 09 j 21:28	0°♓		
	-10 Dec 14 j 00:43	0°♉			morning max el	-7 Jun 11 j 09:11	1°♓24'38	45°44'44	
evening rise	-10 Dec 15 j 21:53	2°♉21'40				-7 Jul 09 j 03:54	0°♈		
	-9 Jan 06 j 23:38	0°♊				-7 Aug 04 j 19:13	0°♉		
	-9 Jan 31 j 02:16	0°♋			asc. node	-7 Aug 23 j 23:31	22°♉34'19		
	-9 Feb 24 j 11:08	0°♌				-7 Aug 30 j 04:14	0°♊		
asc. node	-9 Mar 09 j 04:25	15°♌28'49				-7 Sep 23 j 18:43	0°♋		
	-9 Mar 21 j 05:36	0°♍				-7 Oct 17 j 22:06	0°♌		
	-9 Apr 15 j 14:27	0°♎				-7 Nov 10 j 20:02	0°♍		
	-9 May 11 j 22:48	0°♏				-7 Dec 04 j 16:25	0°♆		
	-9 Jun 09 j 08:01	0°♐			morning set	-7 Dec 09 j 21:48	6°♆34'13		
evening max el	-9 Jun 14 j 21:16	5°♐24'09	45°29'45		desc. node	-7 Dec 13 j 13:10	11°♆08'48		
desc. node	-9 Jun 28 j 18:03	17°♐48'45				-7 Dec 28 j 13:25	0°♇		
	-9 Jul 16 j 05:02	0°♑							
greatest brilliancy	-9 Jul 22 j 03:14	2°♑45'05	-4.5m		superior conj	-6 Jan 20 j 18:57	29°♇06'21	-1°14'39	
retrograde	-9 Aug 02 j 15:50	5°♑05'59			minimum elong	-6 Jan 20 j 09:01	28°♇35'19	1°14'26	
	-9 Aug 19 j 01:57	30°♑				-6 Jan 21 j 12:07	0°♈		
evening set	-9 Aug 20 j 14:10	29°♑07'25			max. Earth dist.	-6 Jan 24 j 23:29	4°♈20'30	1.71725 AU	
inferior conj	-9 Aug 23 j 18:02	27°♑12'33	-8°46'42			-6 Feb 14 j 13:23	0°♉		
minimum elong	-9 Aug 23 j 17:06	27°♑13'58	8°46'42		evening rise	-6 Mar 01 j 21:42	19°♉02'46		
min. Earth dist.	-9 Aug 24 j 08:27	26°♑50'26	0.28034 AU			-6 Mar 10 j 18:16	0°♊		
morning rise	-9 Aug 26 j 19:52	25°♑20'24				-6 Apr 04 j 03:50	0°♋		
direct	-9 Sep 13 j 23:57	19°♑09'18			asc. node	-6 Apr 05 j 16:18	1°♋51'33		
greatest brilliancy	-9 Sep 28 j 07:10	22°♑51'18	-4.6m			-6 Apr 28 j 18:59	0°♌		
	-9 Oct 09 j 20:32	0°♍				-6 May 23 j 16:53	0°♍		
asc. node	-9 Oct 19 j 21:00	8°♍08'37				-6 Jun 18 j 00:10	0°♎		
morning max el	-9 Nov 03 j 15:26	22°♍15'46	46°49'07			-6 Jul 13 j 22:49	0°♏		

Planetary Phenomena of Venus from -101 through 0 (UT), Astrodienst AG 24-Mai-2003 10:51, page 20

Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

desc. node	-6 Jul 26 j 05:55	13°♎48'17		-3 Mar 01 j 04:47	0°♋	
	-6 Aug 10 j 03:26	0°♌		-3 Mar 25 j 11:12	0°♍	
evening max el	-6 Aug 27 j 01:36	17°♌18'49	46°38'53			
	-6 Sep 09 j 19:25	0°♍		superior conj	-3 Apr 03 j 19:00	11°♍29'57 -1°-2'-8
greatest brilliancy	-6 Oct 05 j 06:43	16°♍46'44	-4.6m	minimum elong	-3 Apr 04 j 04:35	11°♍59'27 1°01'50
retrograde	-6 Oct 15 j 23:10	18°♍53'23		max. Earth dist.	-3 Apr 05 j 19:27	13°♍59'09 1.73247 AU
evening set	-6 Oct 30 j 19:29	14°♍35'42			-3 Apr 18 j 19:49	0°♎
inferior conj	-6 Nov 05 j 12:32	11°♍15'11	-2°-46'-24	asc. node	-3 May 03 j 04:10	17°♎37'39
minimum elong	-6 Nov 05 j 18:40	11°♍05'51	2°44'31	evening rise	-3 May 10 j 22:28	27°♎09'01
min. Earth dist.	-6 Nov 05 j 18:43	11°♍05'46	0.26415 AU		-3 May 13 j 06:15	0°♏
morning rise	-6 Nov 11 j 17:33	7°♍38'20			-3 Jun 06 j 18:09	0°♐
asc. node	-6 Nov 16 j 08:47	5°♍29'58			-3 Jul 01 j 07:42	0°♑
direct	-6 Nov 25 j 21:32	3°♍38'25			-3 Jul 26 j 00:10	0°♒
greatest brilliancy	-6 Dec 08 j 06:21	6°♍29'31	-4.7m		-3 Aug 19 j 21:43	0°♓
	-5 Jan 08 j 13:45	0°♎		desc. node	-3 Aug 22 j 17:50	3°♎23'50
morning max el	-5 Jan 15 j 08:39	6°♎40'38	46°48'33		-3 Sep 14 j 03:49	0°♏
	-5 Feb 06 j 07:40	0°♏			-3 Oct 10 j 01:55	0°♐
	-5 Mar 04 j 18:11	0°♐			-3 Nov 06 j 15:26	0°♑
desc. node	-5 Mar 07 j 22:47	3°♐42'01		evening max el	-3 Nov 07 j 20:08	1°♑13'21 47°24'44
	-5 Mar 30 j 09:01	0°♑			-3 Dec 12 j 01:50	0°♒
	-5 Apr 24 j 14:28	0°♒		asc. node	-3 Dec 13 j 20:51	0°♒57'55
	-5 May 19 j 14:04	0°♓		greatest brilliancy	-3 Dec 15 j 21:31	1°♓57'21 -4.7m
	-5 Jun 13 j 08:30	0°♏		retrograde	-3 Dec 28 j 22:09	5°♓09'08
asc. node	-5 Jun 29 j 01:50	19°♏11'31			-2 Jan 13 j 23:33	30°♓
	-5 Jul 07 j 21:20	0°♐		evening set	-2 Jan 14 j 06:01	29°♓50'33
morning set	-5 Jul 14 j 23:59	8°♐45'03		min. Earth dist.	-2 Jan 17 j 17:55	27°♓42'48 0.27349 AU
	-5 Aug 01 j 04:31	0°♑		inferior conj	-2 Jan 18 j 18:01	27°♓05'11 7°33'04
max. Earth dist.	-5 Aug 16 j 19:38	19°♑25'46	1.72288 AU	minimum elong	-2 Jan 18 j 09:09	27°♓19'01 7°31'41
				morning rise	-2 Jan 22 j 12:42	24°♓46'10
superior conj	-5 Aug 20 j 16:07	24°♑13'59	1°24'13	direct	-2 Feb 08 j 08:03	19°♓14'51
minimum elong	-5 Aug 20 j 14:27	24°♑08'46	1°24'13	greatest brilliancy	-2 Feb 18 j 22:55	21°♓20'32 -4.6m
	-5 Aug 25 j 07:04	0°♒			-2 Mar 06 j 07:10	0°♔
	-5 Sep 18 j 06:55	0°♓		morning max el	-2 Mar 29 j 17:04	20°♔12'39 46°08'04
evening rise	-5 Sep 27 j 17:49	11°♓50'13		desc. node	-2 Apr 04 j 10:34	25°♔51'52
	-5 Oct 12 j 05:57	0°♔			-2 Apr 08 j 12:22	0°♕
desc. node	-5 Oct 18 j 15:36	8°♔00'59			-2 May 06 j 09:45	0°♖
	-5 Nov 05 j 05:28	0°♕			-2 Jun 01 j 18:11	0°♗
	-5 Nov 29 j 06:37	0°♖			-2 Jun 27 j 07:35	0°♘
	-5 Dec 23 j 11:22	0°♗			-2 Jul 22 j 07:23	0°♙
	-4 Jan 16 j 23:49	0°♘		asc. node	-2 Jul 26 j 13:41	5°♙10'28
asc. node	-4 Feb 08 j 18:29	27°♘12'56			-2 Aug 15 j 20:05	0°♚
	-4 Feb 11 j 03:26	0°♙			-2 Sep 09 j 00:12	0°♛
	-4 Mar 08 j 12:48	0°♚		morning set	-2 Sep 23 j 01:02	17°♛33'39
evening max el	-4 Apr 01 j 12:47	24°♚54'50	45°28'06		-2 Oct 02 j 22:52	0°♜
	-4 Apr 06 j 21:59	0°♛			-2 Oct 26 j 19:02	0°♝
greatest brilliancy	-4 May 05 j 19:57	21°♛13'37	-4.5m			
retrograde	-4 May 20 j 03:40	24°♛48'43		superior conj	-2 Nov 01 j 13:06	7°♜14'37 0°31'36
desc. node	-4 May 30 j 08:12	22°♛46'04		minimum elong	-2 Nov 01 j 20:48	7°♜38'53 0°31'15
evening set	-4 Jun 04 j 05:19	20°♛27'41		max. Earth dist.	-2 Nov 01 j 16:38	7°♜25'46 1.71055 AU
inferior conj	-4 Jun 10 j 15:30	16°♛38'28	-2°-36'-25	desc. node	-2 Nov 15 j 03:31	24°♜22'11
minimum elong	-4 Jun 10 j 09:57	16°♛47'07	2°34'52		-2 Nov 19 j 14:54	0°♞
min. Earth dist.	-4 Jun 10 j 19:02	16°♛32'58	0.28941 AU	evening rise	-2 Dec 13 j 07:28	29°♞46'28
morning rise	-4 Jun 16 j 14:14	13°♛03'33			-2 Dec 13 j 11:46	0°♟
direct	-4 Jul 02 j 07:14	8°♛20'23			-1 Jan 06 j 10:45	0°♠
greatest brilliancy	-4 Jul 16 j 12:59	11°♛50'51	-4.5m		-1 Jan 30 j 13:29	0°♡
	-4 Aug 11 j 03:19	0°♠			-1 Feb 23 j 22:35	0°♢
morning max el	-4 Aug 20 j 13:37	8°♠48'06	46°07'37	asc. node	-1 Mar 08 j 06:25	14°♢59'32
	-4 Sep 09 j 23:45	0°♡			-1 Mar 20 j 17:33	0°♣
asc. node	-4 Sep 20 j 11:18	11°♡39'19			-1 Apr 15 j 03:26	0°♤
	-4 Oct 06 j 08:17	0°♢			-1 May 11 j 13:59	0°♥
	-4 Oct 31 j 08:08	0°♣			-1 Jun 09 j 05:08	0°♦
	-4 Nov 24 j 17:07	0°♤		evening max el	-1 Jun 12 j 12:41	3°♦12'01 45°28'18
	-4 Dec 18 j 20:12	0°♥		desc. node	-1 Jun 27 j 20:14	16°♦47'08
desc. node	-3 Jan 10 j 01:11	27°♥40'33			-1 Jul 18 j 11:55	0°♧
	-3 Jan 11 j 21:58	0°♦		greatest brilliancy	-1 Jul 19 j 15:34	0°♧27'56 -4.5m
	-3 Feb 05 j 00:31	0°♧		retrograde	-1 Jul 31 j 05:43	2°♧49'54
morning set	-3 Feb 24 j 09:33	24°♧02'59			-1 Aug 12 j 07:11	30°♨

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Attention, astronomical year style is used: The year -101 in astronomical counting style is the year 102 BCE in historical counting style.

evening set	-1 Aug 18 j 02:49	26°♁53'46	
inferior conj	-1 Aug 21 j 08:28	24°♁55'58	-8°-44'-47
minimum elong	-1 Aug 21 j 06:40	24°♁58'43	8°44'46
min. Earth dist.	-1 Aug 21 j 22:01	24°♁35'07	0.28085 AU
morning rise	-1 Aug 24 j 10:20	23°♁03'29	
direct	-1 Sep 11 j 15:17	16°♁52'13	
greatest brilliancy	-1 Sep 25 j 21:23	20°♁32'27	-4.6m
	-1 Oct 10 j 12:21	0°♁	
asc. node	-1 Oct 18 j 23:03	7°♁07'28	
morning max el	-1 Nov 01 j 05:20	19°♁53'16	46°48'02
	-1 Nov 10 j 20:52	0°♁	
	-1 Dec 07 j 10:43	0°♁	
	00 Jan 01 j 16:32	0°♁	
	00 Jan 26 j 10:46	0°♁	
desc. node	00 Feb 07 j 12:56	14°♁44'13	
	00 Feb 20 j 00:52	0°♁	
	00 Mar 15 j 13:42	0°♁	
	00 Apr 09 j 02:18	0°♁	
	00 May 03 j 14:42	0°♁	
morning set	00 May 05 j 09:10	2°♁09'56	
	00 May 28 j 02:13	0°♁	
asc. node	00 May 30 j 16:05	3°♁09'49	
max. Earth dist.	00 Jun 08 j 17:21	14°♁16'54	1.73569 AU
superior conj	00 Jun 10 j 17:53	16°♁46'02	0°25'51
minimum elong	00 Jun 10 j 12:54	16°♁30'45	0°25'37
	00 Jun 21 j 11:57	0°♁	
	00 Jul 15 j 19:33	0°♁	
evening rise	00 Jul 16 j 11:07	0°♁48'03	
	00 Aug 09 j 01:42	0°♁	