

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 1

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

superior conj	-500 Jan 23 j 10:28	27°♁43'36	-1°-16'-35	greatest brilliancy	-498 Jul 18 j 15:31	9°♁29'53	-4.5m
minimum elong	-500 Jan 23 j 01:20	27°♁15'08	1°16'23		-498 Aug 15 j 17:32	0°♁	
	-500 Jan 25 j 06:10	0°♁		morning max el	-498 Aug 22 j 15:55	6°♁34'32	46°11'56
max. Earth dist.	-500 Jan 27 j 17:44	3°♁05'49	1.71885 AU		-498 Sep 14 j 00:58	0°♁	
	-500 Feb 18 j 08:35	0°♁		asc. node	-498 Sep 21 j 04:42	7°♁59'35	
evening rise	-500 Mar 03 j 06:53	17°♁15'21			-498 Oct 10 j 04:20	0°♁	
	-500 Mar 13 j 14:40	0°♁			-498 Nov 04 j 01:37	0°♁	
asc. node	-500 Apr 05 j 09:41	27°♁58'51			-498 Nov 28 j 09:40	0°♁	
	-500 Apr 07 j 01:20	0°♁			-498 Dec 22 j 12:54	0°♁	
	-500 May 01 j 17:21	0°♁		desc. node	-497 Jan 10 j 18:46	23°♁57'05	
	-500 May 26 j 15:54	0°♁			-497 Jan 15 j 15:30	0°♁	
	-500 Jun 20 j 23:41	0°♁			-497 Feb 08 j 19:12	0°♁	
	-500 Jul 16 j 22:53	0°♁		morning set	-497 Feb 26 j 18:38	22°♁16'03	
desc. node	-500 Jul 25 j 23:35	10°♁09'30			-497 Mar 05 j 00:40	0°♁	
	-500 Aug 13 j 04:40	0°♁			-497 Mar 29 j 08:09	0°♁	
evening max el	-500 Aug 28 j 11:41	15°♁38'27	46°46'50				
	-500 Sep 13 j 02:55	0°♁		superior conj	-497 Apr 05 j 21:24	9°♁18'02	0°-59'-46
greatest brilliancy	-500 Oct 06 j 17:40	15°♁18'56	-4.7m	minimum elong	-497 Apr 06 j 06:48	9°♁46'57	0°59'26
retrograde	-500 Oct 17 j 12:49	17°♁28'38		max. Earth dist.	-497 Apr 07 j 11:43	11°♁15'56	1.73363 AU
evening set	-500 Nov 01 j 06:25	13°♁13'38			-497 Apr 22 j 17:30	0°♁	
inferior conj	-500 Nov 07 j 01:44	9°♁49'43	-2°-19'-11	asc. node	-497 May 03 j 21:36	13°♁43'00	
minimum elong	-500 Nov 07 j 06:54	9°♁41'50	2°17'34	evening rise	-497 May 12 j 19:19	24°♁38'23	
min. Earth dist.	-500 Nov 07 j 04:39	9°♁45'16	0.26361 AU		-497 May 17 j 04:16	0°♁	
morning rise	-500 Nov 13 j 07:15	6°♁12'13			-497 Jun 10 j 16:05	0°♁	
asc. node	-500 Nov 16 j 02:17	4°♁50'13			-497 Jul 05 j 05:18	0°♁	
direct	-500 Nov 27 j 09:37	2°♁14'16			-497 Jul 29 j 21:15	0°♁	
greatest brilliancy	-500 Dec 09 j 13:00	4°♁59'30	-4.7m	desc. node	-497 Aug 23 j 11:32	29°♁40'05	
	-499 Jan 11 j 13:43	0°♁			-497 Aug 23 j 18:11	0°♁	
morning max el	-499 Jan 16 j 18:33	5°♁07'56	46°45'11		-497 Sep 17 j 23:42	0°♁	
	-499 Feb 09 j 04:44	0°♁			-497 Oct 13 j 21:43	0°♁	
	-499 Mar 07 j 15:36	0°♁		evening max el	-497 Nov 10 j 02:12	29°♁30'39	47°25'30
desc. node	-499 Mar 07 j 16:32	0°♁02'41			-497 Nov 10 j 13:43	0°♁	
	-499 Apr 02 j 07:18	0°♁		asc. node	-497 Dec 14 j 14:07	28°♁29'19	
	-499 Apr 27 j 13:26	0°♁			-497 Dec 17 j 12:03	0°♁	
	-499 May 22 j 13:11	0°♁		greatest brilliancy	-497 Dec 17 j 23:27	0°♁13'31	-4.7m
	-499 Jun 16 j 07:04	0°♁		retrograde	-497 Dec 31 j 05:11	3°♁31'18	
asc. node	-499 Jun 28 j 19:08	15°♁16'39			-496 Jan 13 j 07:03	30°♁	
	-499 Jul 10 j 18:49	0°♁		evening set	-496 Jan 16 j 17:34	28°♁05'33	
morning set	-499 Jul 15 j 21:13	6°♁17'18		min. Earth dist.	-496 Jan 20 j 02:13	26°♁02'05	0.27515 AU
	-499 Aug 04 j 00:39	0°♁		inferior conj	-496 Jan 21 j 02:21	25°♁24'15	7°42'12
max. Earth dist.	-499 Aug 17 j 20:38	17°♁13'49	1.72120 AU	minimum elong	-496 Jan 20 j 18:06	25°♁37'11	7°41'01
				morning rise	-496 Jan 24 j 19:02	23°♁07'40	
superior conj	-499 Aug 21 j 16:14	21°♁59'45	1°24'23	direct	-496 Feb 10 j 17:54	17°♁31'01	
minimum elong	-499 Aug 21 j 15:15	21°♁56'40	1°24'23	greatest brilliancy	-496 Feb 21 j 09:05	19°♁36'36	-4.6m
	-499 Aug 28 j 01:57	0°♁			-496 Mar 10 j 02:28	0°♁	
	-499 Sep 21 j 00:51	0°♁		morning max el	-496 Mar 31 j 00:19	18°♁17'04	46°04'16
evening rise	-499 Sep 29 j 01:37	10°♁04'07		desc. node	-496 Apr 04 j 04:21	22°♁21'55	
	-499 Oct 14 j 23:16	0°♁			-496 Apr 11 j 17:21	0°♁	
desc. node	-499 Oct 18 j 09:27	4°♁17'25			-496 May 09 j 12:27	0°♁	
	-499 Nov 07 j 22:33	0°♁			-496 Jun 04 j 19:41	0°♁	
	-499 Dec 01 j 23:51	0°♁			-496 Jun 30 j 07:39	0°♁	
	-499 Dec 26 j 05:18	0°♁			-496 Jul 25 j 05:40	0°♁	
	-498 Jan 19 j 19:14	0°♁		asc. node	-496 Jul 26 j 06:58	1°♁16'57	
asc. node	-498 Feb 08 j 11:48	23°♁28'48			-496 Aug 18 j 16:27	0°♁	
	-498 Feb 14 j 01:30	0°♁			-496 Sep 11 j 18:55	0°♁	
	-498 Mar 12 j 15:35	0°♁		greatest brilliancy	-496 Sep 20 j 02:29	10°♁25'10	-3.9m
evening max el	-498 Apr 03 j 14:54	22°♁37'56	45°23'17	morning set	-496 Sep 24 j 07:18	15°♁41'28	
	-498 Apr 11 j 12:52	0°♁			-496 Oct 05 j 16:27	0°♁	
greatest brilliancy	-498 May 07 j 23:42	18°♁51'49	-4.5m		-496 Oct 29 j 12:03	0°♁	
retrograde	-498 May 22 j 03:32	22°♁21'49					
desc. node	-498 May 31 j 02:00	20°♁47'24		superior conj	-496 Nov 03 j 03:21	5°♁50'32	0°27'25
evening set	-498 Jun 06 j 05:16	18°♁01'17		minimum elong	-496 Nov 03 j 10:15	6°♁12'16	0°27'05
inferior conj	-498 Jun 12 j 15:01	14°♁13'13	-2°-52'-54	max. Earth dist.	-496 Nov 03 j 23:00	6°♁52'27	1.71002 AU
minimum elong	-498 Jun 12 j 08:56	14°♁22'41	2°51'13	desc. node	-496 Nov 14 j 21:16	20°♁38'13	
min. Earth dist.	-498 Jun 12 j 19:47	14°♁05'49	0.28896 AU		-496 Nov 22 j 07:50	0°♁	
morning rise	-498 Jun 18 j 12:10	10°♁40'52		evening rise	-496 Dec 15 j 02:05	28°♁35'29	
direct	-498 Jul 04 j 06:43	5°♁55'37			-496 Dec 16 j 05:02	0°♁	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 2

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	-495 Jan 09 j 04:45	0°≈			-493 Jun 14 j 07:54	0°♄		
	-495 Feb 02 j 08:39	0°♁			-493 Jul 12 j 23:56	0°♂		
	-495 Feb 26 j 19:17	0°♃			-493 Aug 08 j 08:47	0°♁		
asc. node	-495 Mar 07 j 23:51	11°♃09'28		asc. node	-493 Aug 23 j 18:58	18°♁14'15		
	-495 Mar 23 j 16:06	0°♄			-493 Sep 02 j 13:33	0°♂		
	-495 Apr 18 j 04:13	0°♂			-493 Sep 27 j 01:07	0°♃		
	-495 May 14 j 17:50	0°♁			-493 Oct 21 j 02:44	0°♂		
	-495 Jun 12 j 15:26	0°♂			-493 Nov 13 j 23:55	0°♃		
evening max el	-495 Jun 13 j 18:11	1°♂04'04	45°31'29		-493 Dec 07 j 20:19	0°♄		
desc. node	-495 Jun 27 j 13:50	13°♂26'26		morning set	-493 Dec 10 j 00:39	2°♄44'28		
greatest brilliancy	-495 Jul 21 j 04:34	28°♂30'19	-4.5m	desc. node	-493 Dec 13 j 08:56	6°♄56'44		
	-495 Jul 26 j 00:21	0°♃			-493 Dec 31 j 17:50	0°♄		
retrograde	-495 Aug 01 j 13:11	0°♃47'03						
	-495 Aug 07 j 20:49	30°♂		superior conj	-492 Jan 20 j 21:34	25°♄13'26	-1°-14'-49	
evening set	-495 Aug 19 j 11:24	24°♂49'19		minimum elong	-492 Jan 20 j 11:49	24°♄42'58	1°14'36	
inferior conj	-495 Aug 22 j 14:32	22°♂55'32	-8°-48'-4		-492 Jan 24 j 17:23	0°≈		
minimum elong	-495 Aug 22 j 13:36	22°♂56'57	8°48'03	max. Earth dist.	-492 Jan 25 j 04:21	0°≈34'14	1.71826 AU	
min. Earth dist.	-495 Aug 23 j 04:40	22°♂33'52	0.27920 AU		-492 Feb 17 j 19:43	0°♁		
morning rise	-495 Aug 25 j 15:39	21°♂04'30		evening rise	-492 Feb 29 j 20:42	14°♁55'13		
direct	-495 Sep 12 j 19:28	14°♂54'37			-492 Mar 13 j 01:48	0°♃		
greatest brilliancy	-495 Sep 26 j 23:11	18°♂32'38	-4.6m	asc. node	-492 Apr 04 j 11:49	27°♃31'01		
	-495 Oct 14 j 01:50	0°♃			-492 Apr 06 j 12:35	0°♄		
asc. node	-495 Oct 18 j 16:32	3°♃56'05			-492 May 01 j 04:55	0°♂		
morning max el	-495 Nov 02 j 11:37	18°♃06'16	46°50'26		-492 May 26 j 04:03	0°♁		
	-495 Nov 13 j 18:16	0°♂			-492 Jun 20 j 12:54	0°♂		
	-495 Dec 10 j 04:47	0°♃			-492 Jul 16 j 14:03	0°♃		
	-494 Jan 04 j 10:09	0°♄		desc. node	-492 Jul 25 j 01:39	9°♃30'10		
	-494 Jan 29 j 05:07	0°♄			-492 Aug 13 j 00:10	0°♂		
desc. node	-494 Feb 07 j 06:41	11°♄01'30		evening max el	-492 Aug 25 j 23:32	13°♂10'51	46°44'09	
	-494 Feb 22 j 20:26	0°≈			-492 Sep 13 j 14:59	0°♃		
	-494 Mar 19 j 10:32	0°♁		greatest brilliancy	-492 Oct 04 j 07:45	12°♃50'53	-4.6m	
	-494 Apr 13 j 00:08	0°♃		retrograde	-492 Oct 15 j 00:16	14°♃58'24		
morning set	-494 May 07 j 07:13	29°♃42'10		evening set	-492 Oct 29 j 20:27	10°♃40'28		
	-494 May 07 j 13:03	0°♄		inferior conj	-492 Nov 04 j 13:44	7°♃19'50	-2°-42'-55	
asc. node	-494 May 31 j 09:22	29°♄13'40		minimum elong	-492 Nov 04 j 19:44	7°♃10'42	2°41'04	
	-494 Jun 01 j 00:28	0°♂		min. Earth dist.	-492 Nov 04 j 18:32	7°♃12'33	0.26379 AU	
max. Earth dist.	-494 Jun 10 j 03:32	11°♂12'53	1.73520 AU	morning rise	-492 Nov 10 j 18:44	3°♃43'01		
				asc. node	-492 Nov 15 j 04:14	1°♃40'10		
superior conj	-494 Jun 12 j 13:26	14°♂10'54	0°28'16		-492 Nov 21 j 06:07	30°♂		
minimum elong	-494 Jun 12 j 08:04	13°♂54'24	0°28'01	direct	-492 Nov 24 j 21:17	29°♂43'41		
	-494 Jun 25 j 09:37	0°♁			-492 Nov 28 j 14:00	0°♃		
evening rise	-494 Jul 18 j 06:31	28°♁15'18		greatest brilliancy	-492 Dec 07 j 04:35	2°♃32'53	-4.7m	
	-494 Jul 19 j 16:22	0°♂			-491 Jan 11 j 14:56	0°♄		
	-494 Aug 12 j 21:37	0°♃		morning max el	-491 Jan 14 j 07:34	2°♄41'03	46°46'22	
	-494 Sep 06 j 02:54	0°♂			-491 Feb 08 j 21:58	0°♄		
desc. node	-494 Sep 19 j 23:35	17°♂08'19		desc. node	-491 Mar 06 j 18:39	29°♄27'17		
	-494 Sep 30 j 09:42	0°♃			-491 Mar 07 j 05:57	0°≈		
	-494 Oct 24 j 19:37	0°♄			-491 Apr 01 j 20:10	0°♁		
	-494 Nov 18 j 11:41	0°♄			-491 Apr 27 j 01:26	0°♃		
	-494 Dec 13 j 17:33	0°≈			-491 May 22 j 00:38	0°♄		
	-493 Jan 09 j 09:23	0°♁			-491 Jun 15 j 18:12	0°♂		
asc. node	-493 Jan 11 j 02:02	1°♁48'31		asc. node	-491 Jun 27 j 21:13	14°♂49'17		
evening max el	-493 Jan 20 j 12:16	11°♁34'25	46°29'49		-491 Jul 10 j 05:47	0°♁		
	-493 Feb 09 j 18:01	0°♃		morning set	-491 Jul 13 j 14:51	4°♁09'46		
greatest brilliancy	-493 Feb 24 j 21:32	9°♃55'04	-4.6m		-491 Aug 03 j 11:36	0°♂		
retrograde	-493 Mar 11 j 11:34	13°♃43'13		max. Earth dist.	-491 Aug 15 j 13:49	15°♂03'20	1.72181 AU	
evening set	-493 Mar 28 j 07:02	8°♃14'06						
inferior conj	-493 Apr 01 j 19:59	5°♃24'32	6°22'39	superior conj	-491 Aug 19 j 08:30	19°♂46'15	1°24'08	
minimum elong	-493 Apr 02 j 05:21	5°♃09'40	6°20'51	minimum elong	-491 Aug 19 j 06:46	19°♂40'50	1°24'07	
min. Earth dist.	-493 Apr 01 j 22:18	5°♃20'52	0.28922 AU		-491 Aug 27 j 13:00	0°♃		
morning rise	-493 Apr 07 j 03:55	2°♃07'48			-491 Sep 20 j 12:02	0°♂		
	-493 Apr 11 j 05:26	30°♁		evening rise	-491 Sep 26 j 14:10	7°♂37'51		
direct	-493 Apr 23 j 08:00	27°♁06'58			-491 Oct 14 j 10:39	0°♃		
desc. node	-493 May 02 j 16:04	28°♁42'14		desc. node	-491 Oct 17 j 11:29	3°♃48'06		
greatest brilliancy	-493 May 05 j 19:53	29°♁53'05	-4.5m		-491 Nov 07 j 10:06	0°♄		
	-493 May 06 j 02:27	0°♃			-491 Dec 01 j 11:37	0°♄		
morning max el	-493 Jun 11 j 02:07	26°♃52'29	45°45'16		-491 Dec 25 j 17:24	0°≈		

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 3

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	-490 Jan 19 j 07:57	0°♁		asc. node	-488 Jul 25 j 09:09	0°♁49°10	
asc. node	-490 Feb 07 j 13:57	22°♁55°15			-488 Aug 18 j 03:30	0°♁	
	-490 Feb 13 j 15:26	0°♁			-488 Sep 11 j 05:53	0°♁	
	-490 Mar 12 j 08:22	0°♁		greatest brilliancy	-488 Sep 20 j 21:40	12°♁06°18	-3.9m
evening max el	-490 Apr 01 j 06:51	20°♁27°22	45°24'40	morning set	-488 Sep 21 j 21:19	13°♁20°32	
	-490 Apr 11 j 15:47	0°♁			-488 Oct 05 j 03:24	0°♁	
greatest brilliancy	-490 May 05 j 13:18	16°♁40°07	-4.5m		-488 Oct 28 j 23:03	0°♁	
retrograde	-490 May 19 j 20:23	20°♁13°34					
desc. node	-490 May 30 j 03:58	18°♁07°33		superior conj	-488 Oct 31 j 13:51	3°♁17°46	0°31'06
evening set	-490 Jun 03 j 20:59	15°♁53°21		minimum elong	-488 Oct 31 j 21:30	3°♁41°52	0°30'44
inferior conj	-490 Jun 10 j 07:21	12°♁04°19	-2°-34'-3	max. Earth dist.	-488 Nov 01 j 05:17	4°♁06°22	1.71012 AU
minimum elong	-490 Jun 10 j 01:52	12°♁12°50	2°32'32	desc. node	-488 Nov 13 j 23:16	20°♁09°45	
min. Earth dist.	-490 Jun 10 j 11:57	11°♁57°11	0.28911 AU		-488 Nov 21 j 18:54	0°♁	
morning rise	-490 Jun 16 j 06:25	8°♁29°32		evening rise	-488 Dec 12 j 11:38	25°♁59°59	
direct	-490 Jul 01 j 23:22	3°♁46°24			-488 Dec 15 j 16:11	0°♁	
greatest brilliancy	-490 Jul 16 j 08:00	7°♁20°56	-4.5m		-487 Jan 08 j 15:58	0°♁	
	-490 Aug 15 j 18:12	0°♁			-487 Feb 01 j 19:59	0°♁	
morning max el	-490 Aug 20 j 08:34	4°♁24°08	46°10'26		-487 Feb 26 j 06:52	0°♁	
	-490 Sep 13 j 17:25	0°♁		asc. node	-487 Mar 07 j 01:57	10°♁40°16	
asc. node	-490 Sep 20 j 06:50	7°♁21°34			-487 Mar 23 j 04:15	0°♁	
	-490 Oct 09 j 18:17	0°♁			-487 Apr 17 j 17:30	0°♁	
	-490 Nov 03 j 14:27	0°♁			-487 May 14 j 09:38	0°♁	
	-490 Nov 27 j 21:52	0°♁		evening max el	-487 Jun 11 j 08:55	28°♁49°50	45°29'50
	-490 Dec 22 j 00:42	0°♁			-487 Jun 12 j 14:28	0°♁	
desc. node	-489 Jan 09 j 20:57	23°♁27°59		desc. node	-487 Jun 26 j 15:59	12°♁24°25	
	-489 Jan 15 j 02:59	0°♁		greatest brilliancy	-487 Jul 18 j 17:14	26°♁12°45	-4.5m
	-489 Feb 08 j 06:25	0°♁		retrograde	-487 Jul 30 j 02:25	28°♁30°08	
morning set	-489 Feb 24 j 08:14	19°♁55°17		evening set	-487 Aug 16 j 23:54	22°♁34°53	
	-489 Mar 04 j 11:42	0°♁		inferior conj	-487 Aug 20 j 04:51	20°♁38°15	-8°-46'-7
	-489 Mar 28 j 19:03	0°♁		minimum elong	-487 Aug 20 j 03:03	20°♁41°00	8°46'06
				min. Earth dist.	-487 Aug 20 j 18:34	20°♁17°10	0.27971 AU
superior conj	-489 Apr 03 j 13:57	7°♁07°44	-1°-2'-4	morning rise	-487 Aug 23 j 06:01	18°♁46°51	
minimum elong	-489 Apr 03 j 23:24	7°♁36°51	1°01'46	direct	-487 Sep 10 j 10:12	12°♁36°37	
max. Earth dist.	-489 Apr 05 j 07:30	9°♁15°38	1.73329 AU	greatest brilliancy	-487 Sep 24 j 13:51	16°♁13°33	-4.6m
	-489 Apr 22 j 04:20	0°♁			-487 Oct 14 j 11:07	0°♁	
asc. node	-489 May 02 j 23:36	13°♁15°50		asc. node	-487 Oct 17 j 18:28	2°♁54°18	
evening rise	-489 May 10 j 13:57	22°♁35°04		morning max el	-487 Oct 31 j 00:48	15°♁41°22	46°49'30
	-489 May 16 j 15:09	0°♁			-487 Nov 13 j 12:46	0°♁	
	-489 Jun 10 j 03:08	0°♁			-487 Dec 09 j 19:39	0°♁	
	-489 Jul 04 j 16:42	0°♁			-486 Jan 03 j 23:25	0°♁	
	-489 Jul 29 j 09:12	0°♁			-486 Jan 28 j 17:29	0°♁	
desc. node	-489 Aug 22 j 13:42	29°♁08°15		desc. node	-486 Feb 06 j 08:49	10°♁31°09	
	-489 Aug 23 j 07:00	0°♁			-486 Feb 22 j 08:12	0°♁	
	-489 Sep 17 j 13:52	0°♁			-486 Mar 18 j 21:50	0°♁	
	-489 Oct 13 j 14:26	0°♁			-486 Apr 12 j 11:05	0°♁	
evening max el	-489 Nov 07 j 18:05	27°♁11°03	47°25'49	morning set	-486 May 05 j 01:21	27°♁37°59	
	-489 Nov 10 j 12:58	0°♁			-486 May 06 j 23:46	0°♁	
asc. node	-489 Dec 13 j 16:14	26°♁53°23		asc. node	-486 May 30 j 11:28	28°♁47°27	
greatest brilliancy	-489 Dec 15 j 15:10	27°♁51°03	-4.7m		-486 May 31 j 11:06	0°♁	
	-489 Dec 21 j 07:06	0°♁		max. Earth dist.	-486 Jun 07 j 23:19	9°♁13°33	1.73543 AU
retrograde	-489 Dec 28 j 20:18	1°♁07°28					
	-488 Jan 05 j 03:19	30°♁		superior conj	-486 Jun 10 j 08:03	12°♁07°56	0°25'19
evening set	-488 Jan 14 j 04:09	25°♁47°31		minimum elong	-486 Jun 10 j 03:12	11°♁53°00	0°25'06
min. Earth dist.	-488 Jan 17 j 15:25	23°♁40°15	0.27443 AU		-486 Jun 24 j 20:16	0°♁	
inferior conj	-488 Jan 18 j 16:18	23°♁01°18	7°31'50	evening rise	-486 Jul 16 j 00:55	26°♁10°28	
minimum elong	-488 Jan 18 j 07:36	23°♁14°56	7°30'30		-486 Jul 19 j 03:08	0°♁	
morning rise	-488 Jan 22 j 11:31	20°♁41°17			-486 Aug 12 j 08:36	0°♁	
direct	-488 Feb 08 j 07:45	15°♁09°26			-486 Sep 05 j 14:11	0°♁	
greatest brilliancy	-488 Feb 18 j 20:49	17°♁13°40	-4.6m	desc. node	-486 Sep 19 j 01:37	16°♁39°01	
	-488 Mar 10 j 16:10	0°♁			-486 Sep 29 j 21:24	0°♁	
morning max el	-488 Mar 28 j 15:14	16°♁01°27	46°05'34		-486 Oct 24 j 07:53	0°♁	
desc. node	-488 Apr 03 j 06:25	21°♁34°11			-486 Nov 18 j 00:48	0°♁	
	-488 Apr 11 j 12:21	0°♁			-486 Dec 13 j 08:14	0°♁	
	-488 May 09 j 03:09	0°♁			-485 Jan 09 j 03:54	0°♁	
	-488 Jun 04 j 08:31	0°♁		asc. node	-485 Jan 10 j 04:09	1°♁04°12	
	-488 Jun 29 j 19:31	0°♁		evening max el	-485 Jan 18 j 02:27	9°♁15°31	46°32'22
	-488 Jul 24 j 16:59	0°♁			-485 Feb 10 j 06:54	0°♁	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 5

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

morning rise	-480 Jan 20 j 03:59	18°♁14'23			-478 Sep 05 j 01:48	0°♁	
direct	-480 Feb 05 j 21:25	12°♁47'46		desc. node	-478 Sep 18 j 03:40	16°♁08'44	
greatest brilliancy	-480 Feb 16 j 08:41	14°♁50'30	-4.6m		-478 Sep 29 j 09:29	0°♁	
	-480 Mar 11 j 02:21	0°♁			-478 Oct 23 j 20:35	0°♁	
morning max el	-480 Mar 26 j 05:21	13°♁43'53	46°06'55		-478 Nov 17 j 14:24	0°♁	
desc. node	-480 Apr 02 j 08:24	20°♁47'08			-478 Dec 12 j 23:29	0°♁	
	-480 Apr 11 j 06:48	0°♁			-477 Jan 08 j 23:18	0°♁	
	-480 May 08 j 17:37	0°♁		asc. node	-477 Jan 09 j 06:11	0°♁18'03	
	-480 Jun 03 j 21:14	0°♁		evening max el	-477 Jan 15 j 16:24	6°♁54'54	46°35'11
	-480 Jun 29 j 07:20	0°♁			-477 Feb 11 j 00:47	0°♁	
	-480 Jul 24 j 04:21	0°♁		greatest brilliancy	-477 Feb 20 j 07:32	5°♁33'18	-4.6m
asc. node	-480 Jul 24 j 11:09	0°♁20'44		retrograde	-477 Mar 06 j 19:58	9°♁21'42	
	-480 Aug 17 j 14:39	0°♁		evening set	-477 Mar 23 j 21:10	3°♁44'24	
	-480 Sep 10 j 16:57	0°♁		inferior conj	-477 Mar 28 j 04:51	1°♁02'59	6°47'55
morning set	-480 Sep 19 j 11:09	10°♁58'41		minimum elong	-477 Mar 28 j 13:56	0°♁48'32	6°46'20
	-480 Oct 04 j 14:27	0°♁		min. Earth dist.	-477 Mar 28 j 06:33	1°♁00'16	0.28881 AU
	-480 Oct 28 j 10:07	0°♁			-477 Mar 29 j 20:35	30°♁	
				morning rise	-477 Apr 02 j 06:50	27°♁54'30	
superior conj	-480 Oct 29 j 00:20	0°♁44'45	0°34'42	direct	-477 Apr 18 j 14:42	22°♁45'52	
minimum elong	-480 Oct 29 j 08:40	1°♁10'59	0°34'20	greatest brilliancy	-477 May 01 j 01:18	25°♁29'47	-4.5m
max. Earth dist.	-480 Oct 29 j 08:25	1°♁10'12	1.71020 AU	desc. node	-477 Apr 30 j 20:18	25°♁24'38	
desc. node	-480 Nov 13 j 01:26	19°♁41'33			-477 May 09 j 16:30	0°♁	
	-480 Nov 21 j 06:01	0°♁		morning max el	-477 Jun 06 j 08:57	22°♁30'01	45°45'18
evening rise	-480 Dec 09 j 21:02	23°♁23'48			-477 Jun 14 j 00:59	0°♁	
	-480 Dec 15 j 03:22	0°♁			-477 Jul 12 j 06:09	0°♁	
	-479 Jan 08 j 03:15	0°♁		asc. node	-477 Aug 07 j 10:56	0°♁	
	-479 Feb 01 j 07:24	0°♁			-477 Aug 21 j 23:03	17°♁12'17	
	-479 Feb 25 j 18:34	0°♁			-477 Sep 01 j 13:46	0°♁	
asc. node	-479 Mar 06 j 03:56	10°♁10'22			-477 Sep 26 j 00:21	0°♁	
	-479 Mar 22 j 16:33	0°♁			-477 Oct 20 j 01:29	0°♁	
	-479 Apr 17 j 07:01	0°♁			-477 Nov 12 j 22:26	0°♁	
	-479 May 14 j 01:49	0°♁		morning set	-477 Dec 04 j 20:09	27°♁33'44	
evening max el	-479 Jun 08 j 22:37	26°♁32'52	45°28'10		-477 Dec 06 j 18:40	0°♁	
	-479 Jun 12 j 14:42	0°♁		desc. node	-477 Dec 11 j 13:14	6°♁00'08	
desc. node	-479 Jun 25 j 18:03	11°♁20'13			-477 Dec 30 j 16:01	0°♁	
greatest brilliancy	-479 Jul 16 j 05:19	23°♁54'00	-4.5m				
retrograde	-479 Jul 27 j 15:25	26°♁12'48		superior conj	-476 Jan 15 j 19:27	20°♁12'58	-1°-10'-50
evening set	-479 Aug 14 j 11:51	20°♁20'18		minimum elong	-476 Jan 15 j 08:39	19°♁39'13	1°10'32
inferior conj	-479 Aug 17 j 19:05	18°♁20'18	-8°-43'-16	max. Earth dist.	-476 Jan 19 j 19:39	25°♁13'33	1.71720 AU
minimum elong	-479 Aug 17 j 16:25	18°♁24'24	8°43'12		-476 Jan 23 j 15:24	0°♁	
min. Earth dist.	-479 Aug 18 j 08:36	17°♁59'32	0.28027 AU		-476 Feb 16 j 17:40	0°♁	
morning rise	-479 Aug 20 j 20:45	16°♁28'00		evening rise	-476 Feb 24 j 23:41	10°♁13'41	
direct	-479 Sep 08 j 00:36	10°♁17'37			-476 Mar 11 j 23:50	0°♁	
greatest brilliancy	-479 Sep 22 j 05:45	13°♁55'15	-4.6m	asc. node	-476 Apr 02 j 15:57	26°♁35'28	
	-479 Oct 14 j 18:17	0°♁			-476 Apr 05 j 10:56	0°♁	
asc. node	-479 Oct 16 j 20:37	1°♁53'29			-476 Apr 30 j 03:55	0°♁	
morning max el	-479 Oct 28 j 13:51	13°♁15'10	46°48'38		-476 May 25 j 04:16	0°♁	
	-479 Nov 13 j 07:11	0°♁			-476 Jun 19 j 15:18	0°♁	
	-479 Dec 09 j 10:37	0°♁			-476 Jul 15 j 20:37	0°♁	
	-478 Jan 03 j 12:49	0°♁		desc. node	-476 Jul 23 j 05:49	8°♁11'47	
	-478 Jan 28 j 05:59	0°♁			-476 Aug 12 j 16:23	0°♁	
desc. node	-478 Feb 05 j 10:50	9°♁59'55		evening max el	-476 Aug 21 j 01:00	8°♁22'17	46°38'52
	-478 Feb 21 j 20:06	0°♁			-476 Sep 15 j 03:18	0°♁	
	-478 Mar 18 j 09:18	0°♁		greatest brilliancy	-476 Sep 29 j 08:46	7°♁53'30	-4.6m
	-478 Apr 11 j 22:14	0°♁		retrograde	-476 Oct 10 j 00:30	10°♁00'08	
morning set	-478 May 02 j 19:30	25°♁33'05		evening set	-476 Oct 25 j 01:05	5°♁35'06	
	-478 May 06 j 10:43	0°♁		inferior conj	-476 Oct 30 j 13:45	2°♁21'21	-3°-29'-4
asc. node	-478 May 29 j 13:38	28°♁20'46		minimum elong	-476 Oct 30 j 21:15	2°♁10'00	3°26'51
	-478 May 30 j 21:58	0°♁		min. Earth dist.	-476 Oct 30 j 21:18	2°♁09'55	0.26431 AU
max. Earth dist.	-478 Jun 05 j 19:39	7°♁15'14	1.73564 AU		-476 Nov 03 j 12:43	30°♁	
				morning rise	-476 Nov 05 j 17:04	28°♁47'29	
superior conj	-478 Jun 08 j 02:51	10°♁04'52	0°22'22	asc. node	-476 Nov 13 j 08:31	25°♁38'06	
minimum elong	-478 Jun 07 j 22:31	9°♁51'31	0°22'09	direct	-476 Nov 19 j 22:28	24°♁43'55	
	-478 Jun 24 j 07:08	0°♁		greatest brilliancy	-476 Dec 02 j 10:42	27°♁39'47	-4.7m
evening rise	-478 Jul 13 j 19:36	24°♁05'57			-476 Dec 07 j 01:54	0°♁	
	-478 Jul 18 j 14:09	0°♁		morning max el	-475 Jan 09 j 12:11	27°♁54'34	46°48'33
	-478 Aug 11 j 19:51	0°♁			-475 Jan 11 j 13:37	0°♁	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 6

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

	-475 Feb 08 j 07:07	0°☾			-473 Aug 22 j 09:00	0°♌		
desc. node	-475 Mar 04 j 22:46	28°☾17'37			-473 Sep 16 j 18:45	0°♍		
	-475 Mar 06 j 09:54	0°≈			-473 Oct 13 j 00:48	0°♎		
	-475 Mar 31 j 21:26	0°♏		evening max el	-473 Nov 03 j 01:06	22°♎30'00	47°26'06	
	-475 Apr 26 j 01:07	0°♐			-473 Nov 10 j 14:39	0°☾		
	-475 May 20 j 23:19	0°♑		greatest brilliancy	-473 Dec 11 j 00:47	23°☾08'56	-4.7m	
	-475 Jun 14 j 16:16	0°♒		asc. node	-473 Dec 11 j 20:21	23°☾30'47		
asc. node	-475 Jun 26 j 01:22	13°♒54'57		retrograde	-473 Dec 24 j 01:24	26°☾19'05		
morning set	-475 Jul 09 j 02:10	29°♒55'44		evening set	-472 Jan 09 j 01:27	21°☾11'28		
	-475 Jul 09 j 03:33	0°☽		min. Earth dist.	-472 Jan 12 j 18:54	18°☾55'05	0.27299 AU	
	-475 Aug 02 j 09:18	0°♈		inferior conj	-472 Jan 13 j 20:12	18°☾15'24	7°08'44	
max. Earth dist.	-475 Aug 10 j 22:37	10°♈38'37	1.72289 AU	minimum elong	-472 Jan 13 j 10:48	18°☾30'10	7°07'03	
				morning rise	-472 Jan 17 j 20:42	15°☾47'35		
superior conj	-475 Aug 14 j 17:26	15°♈21'35	1°23'14	direct	-472 Feb 03 j 10:54	10°☾26'20		
minimum elong	-475 Aug 14 j 14:18	15°♈11'48	1°23'13	greatest brilliancy	-472 Feb 13 j 21:41	12°☾28'25	-4.6m	
	-475 Aug 26 j 10:50	0°♉			-472 Mar 11 j 09:53	0°≈		
	-475 Sep 19 j 10:09	0°♊		morning max el	-472 Mar 23 j 18:42	11°≈23'52	46°08'08	
evening rise	-475 Sep 21 j 16:12	2°♊49'14		desc. node	-472 Apr 01 j 10:38	20°≈01'07		
	-475 Oct 13 j 09:07	0°♋			-472 Apr 11 j 00:58	0°♌		
desc. node	-475 Oct 15 j 15:41	2°♋50'46			-472 May 08 j 08:06	0°♍		
	-475 Nov 06 j 08:59	0°♎			-472 Jun 03 j 10:04	0°♏		
	-475 Nov 30 j 10:59	0°☾			-472 Jun 28 j 19:16	0°♑		
	-475 Dec 24 j 17:31	0°≈			-472 Jul 23 j 15:48	0°☽		
asc. node	-474 Jan 18 j 09:22	0°♏		asc. node	-472 Jul 23 j 13:15	29°♑52'14		
	-474 Feb 05 j 18:02	21°♏47'45			-472 Aug 17 j 01:51	0°♒		
	-474 Feb 12 j 19:27	0°♐			-472 Sep 10 j 04:04	0°♓		
	-474 Mar 11 j 18:44	0°♑		morning set	-472 Sep 17 j 01:08	8°♓37'06		
evening max el	-474 Mar 27 j 16:12	16°♑09'59	45°27'22		-472 Oct 04 j 01:34	0°♌		
	-474 Apr 12 j 02:59	0°♒						
greatest brilliancy	-474 Apr 30 j 19:44	12°♒20'47	-4.5m	superior conj	-472 Oct 26 j 11:09	28°♌12'32	0°38'13	
retrograde	-474 May 15 j 05:31	15°♒56'23		minimum elong	-472 Oct 26 j 20:06	28°♌40'43	0°37'50	
desc. node	-474 May 28 j 08:12	12°♒35'05		max. Earth dist.	-472 Oct 26 j 09:58	28°♌08'50	1.71033 AU	
evening set	-474 May 30 j 04:59	11°♒37'02			-472 Oct 27 j 21:17	0°♍		
inferior conj	-474 Jun 05 j 15:56	7°♒46'10	-1°-55'-51	desc. node	-472 Nov 12 j 03:31	19°♍12'51		
minimum elong	-474 Jun 05 j 11:45	7°♒52'42	1°54'39		-472 Nov 20 j 17:14	0°♎		
min. Earth dist.	-474 Jun 05 j 20:10	7°♒39'35	0.28939 AU	evening rise	-472 Dec 07 j 06:40	20°♎48'14		
morning rise	-474 Jun 11 j 18:22	4°♒06'38			-472 Dec 14 j 14:37	0°☾		
	-474 Jun 22 j 04:32	30°♏			-471 Jan 07 j 14:32	0°≈		
direct	-474 Jun 27 j 09:16	29°♏28'01			-471 Jan 31 j 18:49	0°♏		
	-474 Jul 02 j 17:05	0°♑			-471 Feb 25 j 06:17	0°♐		
greatest brilliancy	-474 Jul 11 j 14:04	2°♑59'05	-4.5m	asc. node	-471 Mar 05 j 06:07	9°♐41'00		
	-474 Aug 15 j 16:23	0°☽			-471 Mar 22 j 04:54	0°♑		
morning max el	-474 Aug 15 j 16:49	0°☽01'03	46°07'33		-471 Apr 16 j 20:41	0°♒		
	-474 Sep 13 j 01:27	0°♈			-471 May 13 j 18:21	0°☽		
asc. node	-474 Sep 18 j 10:58	6°♈06'22		evening max el	-471 Jun 06 j 12:06	24°☽15'25	45°26'43	
	-474 Oct 08 j 21:40	0°♉			-471 Jun 12 j 16:13	0°♓		
	-474 Nov 02 j 15:42	0°♊		desc. node	-471 Jun 24 j 20:05	10°♓14'19		
	-474 Nov 26 j 21:57	0°♋		greatest brilliancy	-471 Jul 13 j 16:46	21°♓34'59	-4.5m	
	-474 Dec 21 j 00:01	0°♌		retrograde	-471 Jul 25 j 05:03	23°♓56'27		
desc. node	-473 Jan 08 j 01:01	22°♌29'19		evening set	-471 Aug 11 j 23:41	18°♓06'51		
	-473 Jan 14 j 01:45	0°☾		inferior conj	-471 Aug 15 j 09:32	16°♓03'08	-8°-39'-37	
	-473 Feb 07 j 04:47	0°≈		minimum elong	-471 Aug 15 j 06:01	16°♓08'32	8°39'27	
morning set	-473 Feb 19 j 11:09	15°≈12'51		min. Earth dist.	-471 Aug 15 j 22:43	15°♓42'55	0.28082 AU	
	-473 Mar 03 j 09:43	0°♏		morning rise	-471 Aug 18 j 12:07	14°♓09'31		
	-473 Mar 27 j 16:49	0°♐		direct	-471 Sep 05 j 15:10	7°♓59'23		
				greatest brilliancy	-471 Sep 19 j 22:48	11°♓39'14	-4.6m	
superior conj	-473 Mar 29 j 22:37	2°♐45'46	-1°-6'-26		-471 Oct 14 j 23:09	0°♓		
minimum elong	-473 Mar 30 j 07:59	3°♐14'40	1°06'09	asc. node	-471 Oct 15 j 22:48	0°♓54'33		
max. Earth dist.	-473 Apr 01 j 02:41	5°♐26'10	1.73254 AU	morning max el	-471 Oct 26 j 03:35	10°♓51'10	46°47'41	
	-473 Apr 21 j 02:00	0°♑			-471 Nov 13 j 01:04	0°♌		
asc. node	-473 May 01 j 03:51	12°♑22'17			-471 Dec 09 j 01:21	0°♍		
evening rise	-473 May 06 j 02:44	18°♑26'52			-470 Jan 03 j 02:04	0°♎		
	-473 May 15 j 12:56	0°♒			-470 Jan 27 j 18:21	0°☾		
	-473 Jun 09 j 01:22	0°☽		desc. node	-470 Feb 04 j 12:57	9°☾29'27		
	-473 Jul 03 j 15:43	0°♈			-470 Feb 21 j 07:50	0°≈		
	-473 Jul 28 j 09:25	0°♉			-470 Mar 17 j 20:35	0°♏		
desc. node	-473 Aug 20 j 17:46	28°♉03'00			-470 Apr 11 j 09:13	0°♐		

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 7

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

morning set	-470 Apr 30 j 13:45	23°♃28'50		evening set	-468 Oct 22 j 15:45	3°♌03'02	
	-470 May 05 j 21:32	0°♄			-468 Oct 27 j 20:56	30°♌	
asc. node	-470 May 28 j 15:38	27°♃53'55		inferior conj	-468 Oct 28 j 01:47	29°♌52'40	-3°-51'-31
	-470 May 30 j 08:42	0°♅		minimum elong	-468 Oct 28 j 09:57	29°♌40'18	3°49'07
max. Earth dist.	-470 Jun 03 j 16:55	5°♅20'07	1.73588 AU	min. Earth dist.	-468 Oct 28 j 10:15	29°♌39'51	0.26461 AU
				morning rise	-468 Nov 03 j 03:53	26°♌20'42	
superior conj	-470 Jun 05 j 21:41	8°♅02'14	0°19'23	asc. node	-468 Nov 12 j 10:29	22°♌46'48	
minimum elong	-470 Jun 05 j 17:53	7°♅50'34	0°19'11	direct	-468 Nov 17 j 11:39	22°♌14'58	
	-470 Jun 23 j 17:55	0°♆		greatest brilliancy	-468 Nov 30 j 00:32	25°♌12'11	-4.7m
evening rise	-470 Jul 11 j 14:21	22°♆02'03			-468 Dec 08 j 15:51	0°♍	
	-470 Jul 18 j 01:02	0°♇		morning max el	-467 Jan 07 j 02:24	25°♍31'24	46°49'20
	-470 Aug 11 j 06:59	0°♈			-467 Jan 11 j 11:25	0°♎	
	-470 Sep 04 j 13:16	0°♉			-467 Feb 07 j 23:08	0°♏	
desc. node	-470 Sep 17 j 05:50	15°♉39'21		desc. node	-467 Mar 04 j 00:55	27°♏43'43	
	-470 Sep 28 j 21:26	0°♊			-467 Mar 05 j 23:35	0°♐	
	-470 Oct 23 j 09:10	0°♋			-467 Mar 31 j 09:51	0°♑	
	-470 Nov 17 j 03:56	0°♌			-467 Apr 25 j 12:45	0°♒	
	-470 Dec 12 j 14:47	0°♍			-467 May 20 j 10:28	0°♓	
asc. node	-469 Jan 08 j 08:18	29°♍32'02			-467 Jun 14 j 03:06	0°♈	
	-469 Jan 08 j 19:04	0°♎		asc. node	-467 Jun 25 j 03:30	13°♈28'33	
evening max el	-469 Jan 13 j 07:04	4°♎36'38	46°38'02	morning set	-467 Jul 06 j 20:11	27°♈50'33	
	-469 Feb 12 j 00:38	0°♏			-467 Jul 08 j 14:13	0°♉	
greatest brilliancy	-469 Feb 17 j 23:39	3°♏21'26	-4.6m		-467 Aug 01 j 19:58	0°♊	
retrograde	-469 Mar 04 j 12:52	7°♏11'22		max. Earth dist.	-467 Aug 08 j 13:18	8°♊21'36	1.72346 AU
evening set	-469 Mar 21 j 16:14	1°♏29'43					
	-469 Mar 24 j 02:33	30°♋		superior conj	-467 Aug 12 j 10:18	13°♊11'12	1°22'36
inferior conj	-469 Mar 25 j 21:18	28°♋52'24	6°59'42	minimum elong	-467 Aug 12 j 06:31	12°♊59'22	1°22'34
minimum elong	-469 Mar 26 j 06:11	28°♋38'18	6°58'14		-467 Aug 25 j 21:36	0°♌	
min. Earth dist.	-469 Mar 25 j 22:15	28°♋50'53	0.28857 AU		-467 Sep 18 j 21:06	0°♍	
morning rise	-469 Mar 30 j 20:17	25°♋48'35		evening rise	-467 Sep 19 j 05:28	0°♍26'11	
direct	-469 Apr 16 j 06:23	20°♋35'34			-467 Oct 12 j 20:14	0°♎	
greatest brilliancy	-469 Apr 28 j 16:08	23°♋18'56	-4.5m	desc. node	-467 Oct 14 j 17:43	2°♎22'15	
desc. node	-469 Apr 29 j 22:18	23°♋51'25			-467 Nov 05 j 20:18	0°♏	
	-469 May 10 j 16:31	0°♐			-467 Nov 29 j 22:35	0°♐	
morning max el	-469 Jun 04 j 01:33	20°♐22'06	45°45'20		-467 Dec 24 j 05:31	0°♑	
	-469 Jun 13 j 20:24	0°♑			-466 Jan 17 j 22:05	0°♒	
	-469 Jul 11 j 20:51	0°♒		asc. node	-466 Feb 04 j 20:13	21°♒14'25	
	-469 Aug 06 j 23:48	0°♓			-466 Feb 12 j 09:36	0°♓	
asc. node	-469 Aug 21 j 01:13	16°♓42'01			-466 Mar 11 j 12:24	0°♈	
	-469 Sep 01 j 01:44	0°♈		evening max el	-466 Mar 25 j 08:28	14°♈00'20	45°28'48
	-469 Sep 25 j 11:52	0°♉			-466 Apr 12 j 12:02	0°♈	
	-469 Oct 19 j 12:46	0°♊		greatest brilliancy	-466 Apr 28 j 12:29	10°♈13'25	-4.5m
	-469 Nov 12 j 09:36	0°♋		retrograde	-466 May 12 j 21:35	13°♈48'22	
morning set	-469 Dec 02 j 05:49	24°♋58'18		desc. node	-466 May 27 j 10:13	9°♈44'15	
	-469 Dec 06 j 05:46	0°♌		evening set	-466 May 27 j 21:19	9°♈29'21	
desc. node	-469 Dec 10 j 15:12	5°♌31'29		inferior conj	-466 Jun 03 j 08:19	5°♈38'00	-1°-36'-30
	-469 Dec 30 j 03:03	0°♍		minimum elong	-466 Jun 03 j 04:48	5°♈43'29	1°35'30
				min. Earth dist.	-466 Jun 03 j 12:42	5°♈31'09	0.28946 AU
superior conj	-468 Jan 13 j 05:53	17°♍41'07	-1°-8'-35	morning rise	-466 Jun 09 j 12:10	1°♈56'06	
minimum elong	-468 Jan 12 j 18:40	17°♍06'03	1°08'16		-466 Jun 13 j 08:45	30°♈	
max. Earth dist.	-468 Jan 17 j 03:37	22°♍34'11	1.71671 AU	direct	-466 Jun 25 j 01:55	27°♈19'52	
	-468 Jan 23 j 02:22	0°♎			-466 Jul 07 j 08:23	0°♈	
	-468 Feb 16 j 04:35	0°♏		greatest brilliancy	-466 Jul 09 j 04:11	0°♈47'48	-4.5m
evening rise	-468 Feb 22 j 12:55	7°♏52'17		morning max el	-466 Aug 13 j 07:35	27°♈47'08	46°06'09
	-468 Mar 11 j 10:46	0°♐			-466 Aug 15 j 13:48	0°♉	
asc. node	-468 Apr 01 j 18:05	26°♐08'15			-466 Sep 12 j 16:51	0°♊	
	-468 Apr 04 j 22:00	0°♑		asc. node	-466 Sep 17 j 13:07	5°♊30'10	
	-468 Apr 29 j 15:18	0°♒			-466 Oct 08 j 11:00	0°♋	
	-468 May 24 j 16:18	0°♓			-466 Nov 02 j 04:05	0°♌	
	-468 Jun 19 j 04:30	0°♈			-466 Nov 26 j 09:48	0°♍	
	-468 Jul 15 j 12:07	0°♉			-466 Dec 20 j 11:31	0°♎	
desc. node	-468 Jul 22 j 07:55	7°♉32'23		desc. node	-465 Jan 07 j 03:12	22°♎00'55	
	-468 Aug 12 j 13:23	0°♊			-465 Jan 13 j 12:59	0°♏	
evening max el	-468 Aug 18 j 15:04	6°♊01'55	46°36'08		-465 Feb 06 j 15:48	0°♐	
	-468 Sep 16 j 07:18	0°♋		morning set	-465 Feb 17 j 00:06	12°♐50'25	
greatest brilliancy	-468 Sep 26 j 20:47	5°♋25'11	-4.6m		-465 Mar 02 j 20:34	0°♑	
retrograde	-468 Oct 07 j 12:59	7°♋31'30			-465 Mar 27 j 03:33	0°♒	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:41, page 8

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

superior conj	-465 Mar 27 j 14:36	0°Υ34'05	-1°-8'-29			-463 Oct 15 j 02:03	0°♄		
minimum elong	-465 Mar 27 j 23:50	1°Υ02'32	1°08'14		asc. node	-463 Oct 15 j 00:44	29°♄56'56		
max. Earth dist.	-465 Mar 29 j 23:22	3°Υ28'59	1.73213 AU		morning max el	-463 Oct 23 j 18:09	8°♄30'07	46°46'51	
	-465 Apr 20 j 12:42	0°♄				-463 Nov 12 j 18:20	0°♄		
asc. node	-465 Apr 30 j 05:52	11°♄55'30				-463 Dec 08 j 15:42	0°♄		
evening rise	-465 May 03 j 20:50	16°♄22'13				-462 Jan 02 j 15:05	0°♄		
	-465 May 14 j 23:43	0°♄				-462 Jan 27 j 06:34	0°♄		
	-465 Jun 08 j 12:22	0°♄			desc. node	-462 Feb 03 j 15:03	8°♄59'06		
	-465 Jul 03 j 03:05	0°♄				-462 Feb 20 j 19:30	0°♄		
	-465 Jul 27 j 21:22	0°♄				-462 Mar 17 j 07:51	0°♄		
desc. node	-465 Aug 19 j 19:57	27°♄31'22				-462 Apr 10 j 20:12	0°Υ		
	-465 Aug 21 j 21:52	0°♄			morning set	-462 Apr 28 j 07:33	21°Υ23'10		
	-465 Sep 16 j 09:11	0°♄				-462 May 05 j 08:20	0°♄		
	-465 Oct 12 j 18:20	0°♄			asc. node	-462 May 27 j 17:45	27°♄27'25		
evening max el	-465 Oct 31 j 15:08	20°♄05'56	47°25'53			-462 May 29 j 19:26	0°♄		
	-465 Nov 10 j 17:23	0°♄			max. Earth dist.	-462 Jun 01 j 15:42	3°♄29'40	1.73609 AU	
greatest brilliancy	-465 Dec 08 j 17:55	20°♄47'44	-4.7m						
asc. node	-465 Dec 10 j 22:31	21°♄43'25			superior conj	-462 Jun 03 j 16:09	5°♄58'30	0°16'19	
retrograde	-465 Dec 21 j 14:57	23°♄54'15			minimum elong	-462 Jun 03 j 12:55	5°♄48'35	0°16'11	
evening set	-464 Jan 06 j 11:51	18°♄52'41				-462 Jun 23 j 04:41	0°♄		
min. Earth dist.	-464 Jan 10 j 08:58	16°♄31'07	0.27230 AU		evening rise	-462 Jul 09 j 08:59	19°♄57'51		
inferior conj	-464 Jan 11 j 09:57	15°♄51'59	6°55'40			-462 Jul 17 j 11:57	0°♄		
minimum elong	-464 Jan 11 j 00:16	16°♄07'08	6°53'50			-462 Aug 10 j 18:09	0°♄		
morning rise	-464 Jan 15 j 13:13	13°♄20'01				-462 Sep 04 j 00:47	0°♄		
direct	-464 Jan 31 j 23:37	8°♄04'03			desc. node	-462 Sep 16 j 07:50	15°♄09'26		
greatest brilliancy	-464 Feb 11 j 11:29	10°♄06'47	-4.6m			-462 Sep 28 j 09:23	0°♄		
	-464 Mar 11 j 15:06	0°♄				-462 Oct 22 j 21:44	0°♄		
morning max el	-464 Mar 21 j 07:16	9°♄02'07	46°09'31			-462 Nov 16 j 17:27	0°♄		
desc. node	-464 Mar 31 j 12:40	19°♄15'44				-462 Dec 12 j 06:10	0°♄		
	-464 Apr 10 j 18:30	0°♄			asc. node	-461 Jan 07 j 10:25	28°♄45'21		
	-464 May 07 j 22:13	0°Υ				-461 Jan 08 j 15:25	0°♄		
	-464 Jun 02 j 22:36	0°♄			evening max el	-461 Jan 10 j 22:32	2°♄20'19	46°40'41	
	-464 Jun 28 j 06:58	0°♄				-461 Feb 13 j 10:38	0°Υ		
asc. node	-464 Jul 22 j 15:25	29°♄24'38			greatest brilliancy	-461 Feb 15 j 15:54	1°Υ09'10	-4.6m	
	-464 Jul 23 j 03:01	0°♄			retrograde	-461 Mar 02 j 05:55	4°Υ59'58		
	-464 Aug 16 j 12:50	0°♄				-461 Mar 18 j 03:55	30°♄		
	-464 Sep 09 j 14:56	0°♄			evening set	-461 Mar 19 j 11:04	29°♄14'04		
morning set	-464 Sep 14 j 15:31	6°♄17'39			inferior conj	-461 Mar 23 j 13:32	26°♄40'41	7°10'51	
	-464 Oct 03 j 12:26	0°♄			minimum elong	-461 Mar 23 j 22:11	26°♄26'59	7°09'31	
					min. Earth dist.	-461 Mar 23 j 13:24	26°♄40'53	0.28835 AU	
superior conj	-464 Oct 23 j 22:15	25°♄42'01	0°41'38		morning rise	-461 Mar 28 j 09:28	23°♄41'38		
minimum elong	-464 Oct 24 j 07:44	26°♄11'52	0°41'13		direct	-461 Apr 13 j 22:22	18°♄24'15		
max. Earth dist.	-464 Oct 23 j 15:20	25°♄20'14	1.71053 AU		greatest brilliancy	-461 Apr 26 j 06:16	21°♄06'25	-4.5m	
	-464 Oct 27 j 08:12	0°♄			desc. node	-461 Apr 29 j 00:19	22°♄20'33		
desc. node	-464 Nov 11 j 05:31	18°♄44'38				-461 May 11 j 10:35	0°Υ		
	-464 Nov 20 j 04:14	0°♄			morning max el	-461 Jun 01 j 18:20	18°Υ14'07	45°45'22	
evening rise	-464 Dec 04 j 16:14	18°♄12'58				-461 Jun 13 j 15:29	0°♄		
	-464 Dec 14 j 01:43	0°♄				-461 Jul 11 j 11:31	0°♄		
	-463 Jan 07 j 01:44	0°♄				-461 Aug 06 j 12:41	0°♄		
	-463 Jan 31 j 06:09	0°♄			asc. node	-461 Aug 20 j 03:15	16°♄11'04		
	-463 Feb 24 j 17:57	0°Υ				-461 Aug 31 j 13:46	0°♄		
asc. node	-463 Mar 04 j 08:12	9°Υ11'37				-461 Sep 24 j 23:28	0°♄		
	-463 Mar 21 j 17:14	0°♄				-461 Oct 19 j 00:09	0°♄		
	-463 Apr 16 j 10:23	0°♄				-461 Nov 11 j 20:51	0°♄		
	-463 May 13 j 11:07	0°♄			morning set	-461 Nov 29 j 15:59	22°♄24'12		
evening max el	-463 Jun 04 j 01:54	21°♄59'08	45°25'25			-461 Dec 05 j 16:55	0°♄		
	-463 Jun 12 j 19:05	0°♄			desc. node	-461 Dec 09 j 17:24	5°♄03'24		
desc. node	-463 Jun 23 j 22:15	9°♄07'06				-461 Dec 29 j 14:06	0°♄		
greatest brilliancy	-463 Jul 11 j 03:20	19°♄15'20	-4.5m						
retrograde	-463 Jul 22 j 19:18	21°♄40'31			superior conj	-460 Jan 10 j 16:34	15°♄09'51	-1°-6'-12	
evening set	-463 Aug 09 j 11:11	15°♄54'04			minimum elong	-460 Jan 10 j 05:04	14°♄33'51	1°05'52	
inferior conj	-463 Aug 12 j 23:55	13°♄46'17	-8°-35'-6		max. Earth dist.	-460 Jan 14 j 15:18	20°♄06'12	1.71623 AU	
minimum elong	-463 Aug 12 j 19:37	13°♄52'52	8°34'51			-460 Jan 22 j 13:21	0°♄		
min. Earth dist.	-463 Aug 13 j 12:28	13°♄27'02	0.28133 AU			-460 Feb 15 j 15:34	0°♄		
morning rise	-463 Aug 16 j 03:48	11°♄50'52			evening rise	-460 Feb 20 j 02:18	5°♄31'01		
direct	-463 Sep 03 j 05:57	5°♄41'33				-460 Mar 10 j 21:50	0°Υ		
greatest brilliancy	-463 Sep 17 j 15:51	9°♄24'00	-4.6m		asc. node	-460 Mar 31 j 20:03	25°Υ40'05		

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 9

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

	-460 Apr 04 j 09:14	0°♄		asc. node	-458 Sep 16 j 15:07	4°♃52'51	
	-460 Apr 29 j 02:54	0°♂			-458 Oct 08 j 00:33	0°♆	
	-460 May 24 j 04:35	0°♁			-458 Nov 01 j 16:42	0°♁	
	-460 Jun 18 j 18:03	0°♃			-458 Nov 25 j 21:54	0°♆	
	-460 Jul 15 j 04:06	0°♆			-458 Dec 19 j 23:17	0°♄	
desc. node	-460 Jul 21 j 10:03	6°♆52'02		desc. node	-457 Jan 06 j 05:14	21°♄31'08	
	-460 Aug 12 j 11:27	0°♁			-457 Jan 13 j 00:30	0°♁	
evening max el	-460 Aug 16 j 05:04	3°♁40'50	46°33'18		-457 Feb 06 j 03:06	0°♁	
	-460 Sep 17 j 23:49	0°♆		morning set	-457 Feb 14 j 13:03	10°♁26'57	
greatest brilliancy	-460 Sep 24 j 09:35	2°♆57'08	-4.6m		-457 Mar 02 j 07:40	0°♄	
retrograde	-460 Oct 05 j 01:00	5°♆01'55					
evening set	-460 Oct 20 j 06:32	0°♆30'08		superior conj	-457 Mar 25 j 06:50	28°♄22'22	-1°-10'-25
	-460 Oct 21 j 04:07	30°♁		minimum elong	-457 Mar 25 j 15:53	28°♄50'15	1°10'11
inferior conj	-460 Oct 25 j 13:46	27°♁23'16	-4°-13'-29		-457 Mar 26 j 14:30	0°♆	
minimum elong	-460 Oct 25 j 22:31	27°♁09'59	4°10'58	max. Earth dist.	-457 Mar 27 j 19:12	1°♆28'24	1.73166 AU
min. Earth dist.	-460 Oct 25 j 23:18	27°♁08'49	0.26490 AU		-457 Apr 19 j 23:37	0°♄	
morning rise	-460 Oct 31 j 14:17	23°♁53'17		asc. node	-457 Apr 29 j 08:01	11°♄28'34	
asc. node	-460 Nov 11 j 12:39	20°♁00'31		evening rise	-457 May 01 j 15:08	14°♄17'33	
direct	-460 Nov 15 j 00:38	19°♁45'20			-457 May 14 j 10:43	0°♂	
greatest brilliancy	-460 Nov 27 j 14:02	22°♁43'17	-4.7m		-457 Jun 07 j 23:37	0°♁	
	-460 Dec 09 j 18:56	0°♆			-457 Jul 02 j 14:46	0°♃	
morning max el	-459 Jan 04 j 15:41	23°♆05'13	46°50'19		-457 Jul 27 j 09:42	0°♆	
	-459 Jan 11 j 08:36	0°♄		desc. node	-457 Aug 18 j 21:54	26°♆57'51	
	-459 Feb 07 j 15:01	0°♁			-457 Aug 21 j 11:12	0°♁	
desc. node	-459 Mar 03 j 02:57	27°♁09'19			-457 Sep 16 j 00:10	0°♆	
	-459 Mar 05 j 13:14	0°♁			-457 Oct 12 j 12:40	0°♄	
	-459 Mar 30 j 22:20	0°♄		evening max el	-457 Oct 29 j 04:12	17°♄38'26	47°25'39
	-459 Apr 25 j 00:32	0°♆			-457 Nov 10 j 22:15	0°♁	
	-459 May 19 j 21:48	0°♄		greatest brilliancy	-457 Dec 06 j 10:25	18°♁24'24	-4.7m
	-459 Jun 13 j 14:10	0°♂		asc. node	-457 Dec 10 j 00:38	19°♁50'28	
asc. node	-459 Jun 24 j 05:40	13°♂01'26		retrograde	-457 Dec 19 j 04:29	21°♁28'14	
morning set	-459 Jul 04 j 14:03	25°♂44'10		evening set	-456 Jan 03 j 22:10	16°♁32'12	
	-459 Jul 08 j 01:09	0°♁		min. Earth dist.	-456 Jan 07 j 23:02	14°♁05'34	0.27162 AU
	-459 Aug 01 j 06:54	0°♃		inferior conj	-456 Jan 08 j 23:34	13°♁27'11	6°41'47
max. Earth dist.	-459 Aug 06 j 03:31	6°♃02'28	1.72404 AU	minimum elong	-456 Jan 08 j 13:41	13°♁42'39	6°39'48
				morning rise	-456 Jan 13 j 05:42	10°♁51'10	
superior conj	-459 Aug 10 j 03:06	10°♃59'55	1°21'50	direct	-456 Jan 29 j 11:58	5°♁40'08	
minimum elong	-459 Aug 09 j 22:40	10°♃46'07	1°21'47	greatest brilliancy	-456 Feb 09 j 01:54	7°♁44'32	-4.6m
	-459 Aug 25 j 08:38	0°♆			-456 Mar 11 j 18:54	0°♁	
evening rise	-459 Sep 16 j 18:46	28°♆02'33		morning max el	-456 Mar 18 j 20:26	6°♁40'40	46°11'09
	-459 Sep 18 j 08:18	0°♁		desc. node	-456 Mar 30 j 14:40	18°♁30'00	
	-459 Oct 12 j 07:38	0°♆			-456 Apr 10 j 11:57	0°♄	
desc. node	-459 Oct 13 j 19:44	1°♆52'52			-456 May 07 j 12:24	0°♆	
	-459 Nov 05 j 07:56	0°♄			-456 Jun 02 j 11:16	0°♄	
	-459 Nov 29 j 10:29	0°♁			-456 Jun 27 j 18:49	0°♂	
	-459 Dec 23 j 17:49	0°♁		asc. node	-456 Jul 21 j 17:26	28°♂55'53	
	-458 Jan 17 j 11:04	0°♄			-456 Jul 22 j 14:28	0°♁	
asc. node	-458 Feb 03 j 22:17	20°♄40'03			-456 Aug 16 j 00:05	0°♃	
	-458 Feb 12 j 00:02	0°♆			-456 Sep 09 j 02:08	0°♆	
	-458 Mar 11 j 06:37	0°♄		morning set	-456 Sep 12 j 05:52	3°♆57'08	
evening max el	-458 Mar 22 j 23:51	11°♄48'06	45°30'15		-456 Oct 02 j 23:37	0°♁	
	-458 Apr 13 j 00:29	0°♂		max. Earth dist.	-456 Oct 20 j 23:01	22°♁37'51	1.71075 AU
greatest brilliancy	-458 Apr 26 j 04:40	8°♂04'54	-4.5m				
retrograde	-458 May 10 j 13:29	11°♂40'13		superior conj	-456 Oct 21 j 09:14	23°♁10'01	0°44'58
evening set	-458 May 25 j 13:55	7°♂21'01		minimum elong	-456 Oct 21 j 19:09	23°♁41'15	0°44'32
desc. node	-458 May 26 j 12:24	6°♂49'54			-456 Oct 26 j 19:26	0°♆	
inferior conj	-458 Jun 01 j 00:52	3°♂29'36	-1°-17'-7	desc. node	-456 Nov 10 j 07:42	18°♆15'57	
minimum elong	-458 May 31 j 22:03	3°♂34'00	1°16'20		-456 Nov 19 j 15:33	0°♄	
min. Earth dist.	-458 Jun 01 j 05:42	3°♂22'01	0.28957 AU	evening rise	-456 Dec 02 j 01:40	15°♄36'20	
	-458 Jun 06 j 19:32	30°♄			-456 Dec 13 j 13:06	0°♁	
morning rise	-458 Jun 07 j 05:58	29°♄45'28			-455 Jan 06 j 13:12	0°♁	
direct	-458 Jun 22 j 18:16	25°♄11'15			-455 Jan 30 j 17:48	0°♄	
greatest brilliancy	-458 Jul 06 j 19:22	28°♄37'06	-4.5m		-455 Feb 24 j 05:56	0°♆	
	-458 Jul 09 j 14:33	0°♂		asc. node	-455 Mar 03 j 10:12	8°♆41'03	
morning max el	-458 Aug 10 j 22:01	25°♂31'26	46°04'46		-455 Mar 21 j 05:54	0°♄	
	-458 Aug 15 j 10:51	0°♁			-455 Apr 16 j 00:25	0°♂	
	-458 Sep 12 j 08:23	0°♃			-455 May 13 j 04:22	0°♁	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 10

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

evening max el	-455 Jun 01 j 16:42	19° ♁ 45'10	45°24'17			-453 Nov 11 j 08:09	0° ♁		
	-455 Jun 12 j 23:44	0° ♁		morning set		-453 Nov 27 j 01:57	19° ♁ 49'06		
desc. node	-455 Jun 23 j 00:18	7° ♁ 57'39				-453 Dec 05 j 04:10	0° ♁		
greatest brilliancy	-455 Jul 08 j 13:25	16° ♁ 55'27	-4.5m	desc. node		-453 Dec 08 j 19:28	4° ♁ 34'31		
retrograde	-455 Jul 20 j 10:03	19° ♁ 24'52				-453 Dec 29 j 01:17	0° ♁		
evening set	-455 Aug 06 j 22:40	13° ♁ 41'56							
inferior conj	-455 Aug 10 j 14:31	11° ♁ 29'35	-8°-29'-42	superior conj		-452 Jan 08 j 02:34	12° ♁ 35'55	-1°-3'-38	
minimum elong	-455 Aug 10 j 09:28	11° ♁ 37'19	8°29'21	minimum elong		-452 Jan 07 j 14:53	11° ♁ 59'21	1°03'16	
min. Earth dist.	-455 Aug 11 j 02:04	11° ♁ 11'52	0.28187 AU	max. Earth dist.		-452 Jan 12 j 02:40	17° ♁ 36'40	1.71574 AU	
morning rise	-455 Aug 13 j 20:02	9° ♁ 31'51				-452 Jan 22 j 00:29	0° ♁		
direct	-455 Aug 31 j 21:29	3° ♁ 23'59				-452 Feb 15 j 02:41	0° ♁		
greatest brilliancy	-455 Sep 15 j 08:29	7° ♁ 08'04	-4.6m	evening rise		-452 Feb 17 j 14:58	3° ♁ 07'02		
asc. node	-455 Oct 14 j 02:56	29° ♁ 00'17				-452 Mar 10 j 08:58	0° ♁		
	-455 Oct 15 j 03:50	0° ♁		asc. node		-452 Mar 30 j 22:13	25° ♁ 12'20		
morning max el	-455 Oct 21 j 09:42	6° ♁ 10'56	46°45'43			-452 Apr 03 j 20:32	0° ♁		
	-455 Nov 12 j 11:37	0° ♁				-452 Apr 28 j 14:34	0° ♁		
	-455 Dec 08 j 06:16	0° ♁				-452 May 23 j 16:57	0° ♁		
	-454 Jan 02 j 04:19	0° ♁				-452 Jun 18 j 07:40	0° ♁		
	-454 Jan 26 j 19:00	0° ♁				-452 Jul 14 j 20:15	0° ♁		
desc. node	-454 Feb 02 j 17:05	8° ♁ 27'53		desc. node		-452 Jul 20 j 12:04	6° ♁ 11'16		
	-454 Feb 20 j 07:22	0° ♁				-452 Aug 12 j 10:09	0° ♁		
	-454 Mar 16 j 19:19	0° ♁		evening max el		-452 Aug 13 j 18:38	1° ♁ 19'19	46°30'31	
	-454 Apr 10 j 07:23	0° ♁				-452 Sep 20 j 15:08	0° ♁		
morning set	-454 Apr 26 j 01:30	19° ♁ 17'18		greatest brilliancy		-452 Sep 21 j 23:06	0° ♁ 31'06	-4.6m	
	-454 May 04 j 19:20	0° ♁		retrograde		-452 Oct 02 j 12:37	2° ♁ 33'41		
asc. node	-454 May 26 j 19:55	27° ♁ 00'38				-452 Oct 13 j 20:27	30° ♁		
	-454 May 29 j 06:20	0° ♁		evening set		-452 Oct 17 j 21:36	27° ♁ 58'26		
max. Earth dist.	-454 May 30 j 15:31	1° ♁ 41'56	1.73621 AU	inferior conj		-452 Oct 23 j 01:59	24° ♁ 55'15	-4°-34'-34	
				minimum elong		-452 Oct 23 j 11:15	24° ♁ 41'10	4°32'01	
superior conj	-454 Jun 01 j 10:52	3° ♁ 55'05	0°13'17	min. Earth dist.		-452 Oct 23 j 12:44	24° ♁ 38'56	0.26527 AU	
minimum elong	-454 Jun 01 j 08:13	3° ♁ 46'57	0°13'09	morning rise		-452 Oct 29 j 00:39	21° ♁ 27'20		
behind sun begin	-454 May 31 j 19:43	3° ♁ 08'32		asc. node		-452 Nov 10 j 14:47	17° ♁ 21'29		
behind sun end	-454 Jun 01 j 20:43	4° ♁ 25'23		direct		-452 Nov 12 j 13:20	17° ♁ 16'52		
	-454 Jun 22 j 15:35	0° ♁		greatest brilliancy		-452 Nov 25 j 04:12	20° ♁ 15'52	-4.7m	
evening rise	-454 Jul 07 j 04:01	17° ♁ 54'36				-452 Dec 10 j 14:35	0° ♁		
	-454 Jul 16 j 22:58	0° ♁		morning max el		-451 Jan 02 j 04:17	20° ♁ 37'08	46°50'57	
	-454 Aug 10 j 05:26	0° ♁				-451 Jan 11 j 05:06	0° ♁		
	-454 Sep 03 j 12:27	0° ♁				-451 Feb 07 j 06:44	0° ♁		
desc. node	-454 Sep 15 j 09:55	14° ♁ 39'12		desc. node		-451 Mar 02 j 05:00	26° ♁ 34'55		
	-454 Sep 27 j 21:35	0° ♁				-451 Mar 05 j 02:52	0° ♁		
	-454 Oct 22 j 10:36	0° ♁				-451 Mar 30 j 10:48	0° ♁		
	-454 Nov 16 j 07:22	0° ♁				-451 Apr 24 j 12:16	0° ♁		
	-454 Dec 11 j 22:07	0° ♁				-451 May 19 j 09:03	0° ♁		
asc. node	-453 Jan 06 j 12:27	27° ♁ 56'49				-451 Jun 13 j 01:08	0° ♁		
evening max el	-453 Jan 08 j 14:35	0° ♁ 04'31	46°43'25	asc. node		-451 Jun 23 j 07:38	12° ♁ 34'01		
	-453 Jan 08 j 12:48	0° ♁		morning set		-451 Jul 02 j 07:52	23° ♁ 38'00		
greatest brilliancy	-453 Feb 13 j 09:10	28° ♁ 57'25	-4.6m			-451 Jul 07 j 11:59	0° ♁		
	-453 Feb 15 j 15:38	0° ♁				-451 Jul 31 j 17:43	0° ♁		
retrograde	-453 Feb 27 j 22:56	2° ♁ 47'25		max. Earth dist.		-451 Aug 03 j 18:29	3° ♁ 46'09	1.72459 AU	
	-453 Mar 11 j 15:19	30° ♁							
evening set	-453 Mar 17 j 05:49	26° ♁ 57'39		superior conj		-451 Aug 07 j 20:12	8° ♁ 50'03	1°20'57	
inferior conj	-453 Mar 21 j 05:40	24° ♁ 28'00	7°21'32	minimum elong		-451 Aug 07 j 15:10	8° ♁ 34'26	1°20'53	
minimum elong	-453 Mar 21 j 13:59	24° ♁ 14'49	7°20'19			-451 Aug 24 j 19:31	0° ♁		
min. Earth dist.	-453 Mar 21 j 04:13	24° ♁ 30'19	0.28805 AU	evening rise		-451 Sep 14 j 08:39	25° ♁ 41'29		
morning rise	-453 Mar 25 j 22:25	21° ♁ 33'48				-451 Sep 17 j 19:18	0° ♁		
direct	-453 Apr 11 j 14:32	16° ♁ 12'16				-451 Oct 11 j 18:48	0° ♁		
greatest brilliancy	-453 Apr 23 j 19:08	18° ♁ 51'47	-4.5m	desc. node		-451 Oct 12 j 21:56	1° ♁ 24'46		
desc. node	-453 Apr 28 j 02:34	20° ♁ 52'25				-451 Nov 04 j 19:20	0° ♁		
	-453 May 12 j 00:17	0° ♁				-451 Nov 28 j 22:11	0° ♁		
morning max el	-453 May 30 j 10:58	16° ♁ 05'30	45°45'31			-451 Dec 23 j 05:59	0° ♁		
	-453 Jun 13 j 10:09	0° ♁				-450 Jan 17 j 00:01	0° ♁		
	-453 Jul 11 j 02:02	0° ♁		asc. node		-450 Feb 03 j 00:18	20° ♁ 05'32		
	-453 Aug 06 j 01:29	0° ♁				-450 Feb 11 j 14:35	0° ♁		
asc. node	-453 Aug 19 j 05:19	15° ♁ 40'23				-450 Mar 11 j 01:17	0° ♁		
	-453 Aug 31 j 01:43	0° ♁		evening max el		-450 Mar 20 j 14:26	9° ♁ 33'52	45°31'53	
	-453 Sep 24 j 11:01	0° ♁				-450 Apr 13 j 17:17	0° ♁		
	-453 Oct 18 j 11:32	0° ♁		greatest brilliancy		-450 Apr 23 j 19:49	5° ♁ 54'53	-4.5m	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 11

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

retrograde	-450 May 08 j 05:22	9°♁32'00		superior conj	-448 Oct 18 j 20:21	20°♁39'31	0°48'11
evening set	-450 May 23 j 06:29	5°♁12'06		minimum elong	-448 Oct 19 j 06:38	21°♁11'53	0°47'46
desc. node	-450 May 25 j 14:24	3°♁52'44			-448 Oct 26 j 06:22	0°♁	
inferior conj	-450 May 29 j 17:14	1°♁21'04	0°-57'-39	desc. node	-448 Nov 09 j 09:44	17°♁47'53	
minimum elong	-450 May 29 j 15:08	1°♁24'22	0°57'02		-448 Nov 19 j 02:32	0°♁	
min. Earth dist.	-450 May 29 j 22:39	1°♁12'35	0.28967 AU	evening rise	-448 Nov 29 j 11:17	13°♁01'23	
	-450 May 31 j 21:14	30°♁			-448 Dec 13 j 00:08	0°♁	
morning rise	-450 Jun 04 j 23:30	27°♁35'01			-447 Jan 06 j 00:17	0°♁	
direct	-450 Jun 20 j 10:01	23°♁02'22			-447 Jan 30 j 05:02	0°♁	
greatest brilliancy	-450 Jul 04 j 11:18	26°♁27'34	-4.5m		-447 Feb 23 j 17:32	0°♁	
	-450 Jul 11 j 01:41	0°♁		asc. node	-447 Mar 02 j 12:22	8°♁12'13	
morning max el	-450 Aug 08 j 12:46	23°♁17'09	46°03'34		-447 Mar 20 j 18:15	0°♁	
	-450 Aug 15 j 07:02	0°♁			-447 Apr 15 j 14:16	0°♁	
	-450 Sep 11 j 23:28	0°♁			-447 May 12 j 21:43	0°♁	
asc. node	-450 Sep 15 j 17:15	4°♁16'50		evening max el	-447 May 30 j 08:21	17°♁33'55	45°23'07
	-450 Oct 07 j 13:44	0°♁			-447 Jun 13 j 06:11	0°♁	
	-450 Nov 01 j 04:57	0°♁		desc. node	-447 Jun 22 j 02:19	6°♁46'38	
	-450 Nov 25 j 09:37	0°♁		greatest brilliancy	-447 Jul 06 j 00:04	14°♁36'49	-4.5m
	-450 Dec 19 j 10:40	0°♁		retrograde	-447 Jul 18 j 00:37	17°♁09'29	
desc. node	-449 Jan 05 j 07:14	21°♁02'20		evening set	-447 Aug 04 j 09:52	11°♁30'43	
	-449 Jan 12 j 11:40	0°♁		inferior conj	-447 Aug 08 j 04:58	9°♁13'24	-8°-23'-34
	-449 Feb 05 j 14:06	0°♁		minimum elong	-447 Aug 07 j 23:12	9°♁22'14	8°23'06
morning set	-449 Feb 12 j 01:37	8°♁03'02		min. Earth dist.	-447 Aug 08 j 15:26	8°♁57'20	0.28235 AU
	-449 Mar 01 j 18:32	0°♁		morning rise	-447 Aug 11 j 12:20	7°♁12'54	
				direct	-447 Aug 29 j 13:11	1°♁07'12	
superior conj	-449 Mar 22 j 22:33	26°♁09'42	-1°-12'-16	greatest brilliancy	-447 Sep 12 j 23:40	4°♁51'09	-4.6m
minimum elong	-449 Mar 23 j 07:21	26°♁36'49	1°12'03	asc. node	-447 Oct 13 j 05:03	28°♁05'33	
max. Earth dist.	-449 Mar 25 j 11:56	29°♁18'56	1.73122 AU		-447 Oct 15 j 03:59	0°♁	
	-449 Mar 26 j 01:16	0°♁		morning max el	-447 Oct 19 j 00:58	3°♁52'11	46°44'32
	-449 Apr 19 j 10:21	0°♁			-447 Nov 12 j 04:13	0°♁	
asc. node	-449 Apr 28 j 10:06	11°♁01'57			-447 Dec 07 j 20:20	0°♁	
evening rise	-449 Apr 29 j 08:50	12°♁11'38			-446 Jan 01 j 17:07	0°♁	
greatest brilliancy	-449 Apr 30 j 03:42	13°♁09'29	-3.9m		-446 Jan 26 j 07:00	0°♁	
	-449 May 13 j 21:33	0°♁		desc. node	-446 Feb 01 j 19:10	7°♁58'00	
	-449 Jun 07 j 10:41	0°♁			-446 Feb 19 j 18:49	0°♁	
	-449 Jul 02 j 02:15	0°♁			-446 Mar 16 j 06:22	0°♁	
	-449 Jul 26 j 21:50	0°♁			-446 Apr 09 j 18:10	0°♁	
desc. node	-449 Aug 18 j 00:00	26°♁25'26		morning set	-446 Apr 23 j 19:29	17°♁12'43	
	-449 Aug 21 j 00:21	0°♁			-446 May 04 j 05:57	0°♁	
	-449 Sep 15 j 15:02	0°♁		asc. node	-446 May 25 j 21:52	26°♁34'10	
	-449 Oct 12 j 07:03	0°♁		max. Earth dist.	-446 May 28 j 14:55	29°♁53'51	1.73638 AU
evening max el	-449 Oct 26 j 17:38	15°♁13'11	47°25'32		-446 May 28 j 16:55	0°♁	
	-449 Nov 11 j 04:32	0°♁					
greatest brilliancy	-449 Dec 04 j 02:00	16°♁01'19	-4.7m	superior conj	-446 May 30 j 05:27	1°♁52'13	0°10'13
asc. node	-449 Dec 09 j 02:36	17°♁54'25		minimum elong	-446 May 30 j 03:25	1°♁45'56	0°10'06
retrograde	-449 Dec 16 j 18:31	19°♁03'54		behind sun begin	-446 May 29 j 10:04	0°♁52'39	
evening set	-448 Jan 01 j 08:39	14°♁12'51		behind sun end	-446 May 30 j 20:45	2°♁39'13	
min. Earth dist.	-448 Jan 05 j 12:57	11°♁41'47	0.27098 AU		-446 Jun 22 j 02:13	0°♁	
inferior conj	-448 Jan 06 j 13:15	11°♁03'53	6°27'09	evening rise	-446 Jul 04 j 22:50	15°♁51'24	
minimum elong	-448 Jan 06 j 03:15	11°♁19'29	6°25'01		-446 Jul 16 j 09:46	0°♁	
morning rise	-448 Jan 10 j 22:21	8°♁23'56			-446 Aug 09 j 16:29	0°♁	
direct	-448 Jan 27 j 00:33	3°♁17'36			-446 Sep 02 j 23:54	0°♁	
greatest brilliancy	-448 Feb 06 j 16:08	5°♁23'38	-4.6m	desc. node	-446 Sep 14 j 12:04	14°♁09'57	
	-448 Mar 11 j 20:36	0°♁			-446 Sep 27 j 09:33	0°♁	
morning max el	-448 Mar 16 j 10:30	4°♁22'35	46°12'33		-446 Oct 21 j 23:15	0°♁	
desc. node	-448 Mar 29 j 16:53	17°♁46'36			-446 Nov 15 j 21:07	0°♁	
	-448 Apr 10 j 04:40	0°♁			-446 Dec 11 j 13:59	0°♁	
	-448 May 07 j 02:10	0°♁		asc. node	-445 Jan 05 j 14:34	27°♁08'40	
	-448 Jun 01 j 23:37	0°♁		evening max el	-445 Jan 06 j 06:50	27°♁49'58	46°46'06
	-448 Jun 27 j 06:24	0°♁			-445 Jan 08 j 10:36	0°♁	
asc. node	-448 Jul 20 j 19:30	28°♁28'09		greatest brilliancy	-445 Feb 11 j 03:33	26°♁48'07	-4.6m
	-448 Jul 22 j 01:37	0°♁			-445 Feb 20 j 02:42	0°♁	
	-448 Aug 15 j 11:01	0°♁		retrograde	-445 Feb 25 j 15:46	0°♁35'53	
	-448 Sep 08 j 12:59	0°♁			-445 Mar 03 j 01:06	30°♁	
morning set	-448 Sep 09 j 20:14	1°♁37'48		evening set	-445 Mar 15 j 00:37	24°♁42'42	
	-448 Oct 02 j 10:29	0°♁		inferior conj	-445 Mar 18 j 21:55	22°♁16'36	7°31'35
max. Earth dist.	-448 Oct 18 j 08:30	20°♁02'10	1.71096 AU	minimum elong	-445 Mar 19 j 05:52	22°♁04'00	7°30'30

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 12

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

min. Earth dist.	-445 Mar 18 j 19:15	22°♃20'51	0.28771 AU	evening rise	-443 Sep 11 j 22:43	23°♎20'50	
morning rise	-445 Mar 23 j 11:25	19°♃27'07			-443 Sep 17 j 06:23	0°♌	
direct	-445 Apr 09 j 06:44	14°♃01'47			-443 Oct 11 j 06:06	0°♍	
greatest brilliancy	-445 Apr 21 j 07:10	16°♃37'25	-4.5m	desc. node	-443 Oct 11 j 23:56	0°♍55'41	
desc. node	-445 Apr 27 j 04:31	19°♃28'00			-443 Nov 04 j 06:52	0°♎	
	-445 May 12 j 09:55	0°♃			-443 Nov 28 j 10:02	0°♏	
morning max el	-445 May 28 j 02:51	13°♃56'06	45°45'31		-443 Dec 22 j 18:17	0°♐	
	-445 Jun 13 j 03:58	0°♃			-442 Jan 16 j 13:06	0°♑	
	-445 Jul 10 j 16:08	0°♃		asc. node	-442 Feb 02 j 02:27	19°♃31'03	
	-445 Aug 05 j 14:02	0°♃			-442 Feb 11 j 05:20	0°♃	
asc. node	-445 Aug 18 j 07:28	15°♃10'25			-442 Mar 10 j 20:29	0°♄	
	-445 Aug 30 j 13:31	0°♃		evening max el	-442 Mar 18 j 05:10	7°♃19'56	45°33'42
	-445 Sep 23 j 22:25	0°♃			-442 Apr 14 j 15:56	0°♃	
	-445 Oct 17 j 22:45	0°♃		greatest brilliancy	-442 Apr 21 j 10:21	3°♃44'25	-4.5m
	-445 Nov 10 j 19:16	0°♃		retrograde	-442 May 05 j 21:53	7°♃24'37	
morning set	-445 Nov 24 j 11:53	17°♃14'35		evening set	-442 May 20 j 23:26	3°♃03'31	
	-445 Dec 04 j 15:12	0°♃		desc. node	-442 May 24 j 16:27	0°♃54'33	
desc. node	-445 Dec 07 j 21:26	4°♃06'03			-442 May 26 j 03:52	30°♃	
	-445 Dec 28 j 12:16	0°♃		inferior conj	-442 May 27 j 09:52	29°♃13'11	0°-38'-9
				minimum elong	-442 May 27 j 08:28	29°♃15'22	0°37'45
superior conj	-444 Jan 05 j 12:32	10°♃02'29	-1°00'-57	min. Earth dist.	-442 May 27 j 15:41	29°♃04'04	0.28976 AU
minimum elong	-444 Jan 05 j 00:46	9°♃25'37	1°00'33	morning rise	-442 Jun 02 j 17:10	25°♃25'38	
max. Earth dist.	-444 Jan 09 j 13:39	15°♃06'32	1.71525 AU	direct	-442 Jun 18 j 01:59	20°♃54'04	
	-444 Jan 21 j 11:26	0°♃		greatest brilliancy	-442 Jul 02 j 03:55	24°♃19'30	-4.5m
	-444 Feb 14 j 13:36	0°♃			-442 Jul 12 j 02:22	0°♃	
evening rise	-444 Feb 15 j 03:34	0°♃43'22		morning max el	-442 Aug 06 j 04:35	21°♃05'45	46°02'23
	-444 Mar 09 j 19:55	0°♃			-442 Aug 15 j 02:33	0°♃	
asc. node	-444 Mar 30 j 00:19	24°♃44'58			-442 Sep 11 j 14:24	0°♃	
	-444 Apr 03 j 07:38	0°♃		asc. node	-442 Sep 14 j 19:21	3°♃40'55	
	-444 Apr 28 j 02:02	0°♃			-442 Oct 07 j 02:56	0°♃	
	-444 May 23 j 05:09	0°♃			-442 Oct 31 j 17:21	0°♃	
	-444 Jun 17 j 21:16	0°♃			-442 Nov 24 j 21:34	0°♃	
	-444 Jul 14 j 12:37	0°♃			-442 Dec 18 j 22:19	0°♃	
desc. node	-444 Jul 19 j 14:09	5°♃30'23		desc. node	-441 Jan 04 j 09:27	20°♃33'22	
evening max el	-444 Aug 11 j 07:12	28°♃55'26	46°27'29		-441 Jan 11 j 23:05	0°♃	
	-444 Aug 12 j 09:54	0°♃			-441 Feb 05 j 01:19	0°♃	
greatest brilliancy	-444 Sep 19 j 13:10	28°♃05'12	-4.6m	morning set	-441 Feb 09 j 13:46	5°♃37'02	
	-444 Sep 27 j 21:40	0°♃			-441 Mar 01 j 05:34	0°♃	
retrograde	-444 Sep 29 j 23:46	0°♃05'05					
	-444 Oct 02 j 01:22	30°♃		superior conj	-441 Mar 20 j 14:08	23°♃55'57	-1°-14'-1
evening set	-444 Oct 15 j 12:36	25°♃26'01		minimum elong	-441 Mar 20 j 22:37	24°♃22'06	1°13'50
inferior conj	-444 Oct 20 j 14:04	22°♃26'56	-4°-55'-13	max. Earth dist.	-441 Mar 23 j 04:03	27°♃06'54	1.73077 AU
minimum elong	-444 Oct 20 j 23:46	22°♃12'10	4°52'37		-441 Mar 25 j 12:12	0°♃	
min. Earth dist.	-444 Oct 21 j 02:24	22°♃08'11	0.26566 AU		-441 Apr 18 j 21:16	0°♃	
morning rise	-444 Oct 26 j 10:36	19°♃01'26		evening rise	-441 Apr 27 j 02:39	10°♃05'32	
asc. node	-444 Nov 09 j 16:43	14°♃47'56		asc. node	-441 Apr 27 j 12:06	10°♃34'31	
direct	-444 Nov 10 j 01:24	14°♃47'47		greatest brilliancy	-441 May 02 j 04:42	16°♃19'42	-3.9m
greatest brilliancy	-444 Nov 22 j 19:05	17°♃49'05	-4.7m		-441 May 13 j 08:34	0°♃	
	-444 Dec 11 j 05:20	0°♃			-441 Jun 06 j 21:56	0°♃	
morning max el	-444 Dec 30 j 16:23	18°♃07'44	46°51'45		-441 Jul 01 j 13:54	0°♃	
	-443 Jan 11 j 00:55	0°♃			-441 Jul 26 j 10:08	0°♃	
	-443 Feb 06 j 22:07	0°♃		desc. node	-441 Aug 17 j 02:10	25°♃52'37	
desc. node	-443 Mar 01 j 07:09	26°♃01'15			-441 Aug 20 j 13:44	0°♃	
	-443 Mar 04 j 16:17	0°♃			-441 Sep 15 j 06:17	0°♃	
	-443 Mar 29 j 23:07	0°♃			-441 Oct 12 j 02:14	0°♃	
	-443 Apr 23 j 23:52	0°♃		evening max el	-441 Oct 24 j 07:54	12°♃49'09	47°25'01
	-443 May 18 j 20:11	0°♃			-441 Nov 11 j 13:54	0°♃	
	-443 Jun 12 j 11:59	0°♃		greatest brilliancy	-441 Dec 01 j 16:40	13°♃35'09	-4.7m
asc. node	-443 Jun 22 j 09:46	12°♃07'28		asc. node	-441 Dec 08 j 04:46	15°♃51'36	
morning set	-443 Jun 30 j 02:03	21°♃33'11		retrograde	-441 Dec 14 j 08:37	16°♃37'06	
	-443 Jul 06 j 22:44	0°♃		evening set	-441 Dec 29 j 18:51	11°♃50'50	
	-443 Jul 31 j 04:29	0°♃		min. Earth dist.	-440 Jan 03 j 02:22	9°♃15'35	0.27035 AU
max. Earth dist.	-443 Aug 01 j 12:07	1°♃38'16	1.72522 AU	inferior conj	-440 Jan 04 j 02:34	8°♃37'59	6°11'24
				minimum elong	-440 Jan 03 j 16:31	8°♃53'36	6°09'10
superior conj	-443 Aug 05 j 13:32	6°♃41'07	1°19'58	morning rise	-440 Jan 08 j 14:43	5°♃54'08	
minimum elong	-443 Aug 05 j 07:58	6°♃23'48	1°19'52	direct	-440 Jan 24 j 13:18	0°♃52'32	
	-443 Aug 24 j 06:25	0°♃		greatest brilliancy	-440 Feb 04 j 05:30	2°♃59'42	-4.6m

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 14

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

	-435 Mar 29 j 11:29	0°♁		evening max el	-433 Oct 21 j 22:58	10°♁27'39	47°24'34
	-435 Apr 23 j 11:36	0°♂			-433 Nov 12 j 02:10	0°♁	
	-435 May 18 j 07:30	0°♂		greatest brilliancy	-433 Nov 29 j 07:11	11°♁09'21	-4.7m
	-435 Jun 11 j 23:03	0°♁		asc. node	-433 Dec 07 j 06:52	13°♁44'10	
asc. node	-435 Jun 21 j 11:55	11°♁40'18		retrograde	-433 Dec 11 j 22:58	14°♁10'34	
morning set	-435 Jun 27 j 20:02	19°♁27'08		evening set	-433 Dec 27 j 05:13	9°♁28'59	
	-435 Jul 06 j 09:41	0°♁		min. Earth dist.	-433 Dec 31 j 15:36	6°♁49'52	0.26972 AU
max. Earth dist.	-435 Jul 30 j 07:05	29°♁34'03	1.72578 AU	inferior conj	-432 Jan 01 j 15:49	6°♁12'18	5°54'52
	-435 Jul 30 j 15:26	0°♁		minimum elong	-432 Jan 01 j 05:49	6°♁27'49	5°52'33
				morning rise	-432 Jan 06 j 07:00	3°♁24'35	
superior conj	-435 Aug 03 j 06:42	4°♁31'12	1°18'51		-432 Jan 13 j 11:45	30°♁	
minimum elong	-435 Aug 03 j 00:37	4°♁12'15	1°18'44	direct	-432 Jan 22 j 02:32	28°♁27'53	
	-435 Aug 23 j 17:27	0°♁			-432 Jan 31 j 02:17	0°♁	
evening rise	-435 Sep 09 j 12:52	21°♁00'16		greatest brilliancy	-432 Feb 01 j 18:10	0°♁35'15	-4.6m
	-435 Sep 16 j 17:34	0°♁		morning max el	-432 Mar 11 j 16:10	29°♁47'50	46°15'35
	-435 Oct 10 j 17:30	0°♁			-432 Mar 11 j 21:09	0°♁	
desc. node	-435 Oct 11 j 01:58	0°♁26'28		desc. node	-432 Mar 27 j 20:55	16°♁18'39	
	-435 Nov 03 j 18:32	0°♁			-432 Apr 09 j 13:42	0°♁	
	-435 Nov 27 j 22:01	0°♁			-432 May 06 j 05:42	0°♁	
	-435 Dec 22 j 06:43	0°♁			-432 Jun 01 j 00:27	0°♁	
asc. node	-434 Jan 16 j 02:20	0°♁		asc. node	-432 Jun 26 j 05:47	0°♁	
	-434 Feb 01 j 04:31	18°♁55'55			-432 Jul 18 j 23:41	27°♁31'56	
	-434 Feb 10 j 20:18	0°♁			-432 Jul 21 j 00:11	0°♁	
	-434 Mar 10 j 16:16	0°♁			-432 Aug 14 j 09:11	0°♁	
evening max el	-434 Mar 15 j 20:19	5°♁06'59	45°35'33	morning set	-432 Sep 05 j 02:07	27°♁02'07	
	-434 Apr 15 j 23:45	0°♁			-432 Sep 07 j 11:00	0°♁	
greatest brilliancy	-434 Apr 19 j 00:14	1°♁32'55	-4.5m		-432 Oct 01 j 08:33	0°♁	
retrograde	-434 May 03 j 14:39	5°♁16'42		max. Earth dist.	-432 Oct 13 j 00:54	14°♁41'52	1.71143 AU
evening set	-434 May 18 j 16:25	0°♁54'11					
	-434 May 20 j 07:02	30°♁		superior conj	-432 Oct 13 j 19:42	15°♁41'03	0°54'15
desc. node	-434 May 23 j 18:38	27°♁54'02		minimum elong	-432 Oct 14 j 06:23	16°♁14'41	0°53'50
inferior conj	-434 May 25 j 02:20	27°♁04'36	0°-18'-30		-432 Oct 25 j 04:35	0°♁	
minimum elong	-434 May 25 j 01:40	27°♁05'40	0°18'20	desc. node	-432 Nov 07 j 13:57	16°♁51'05	
min. Earth dist.	-434 May 25 j 08:19	26°♁55'16	0.28990 AU		-432 Nov 18 j 00:55	0°♁	
morning rise	-434 May 31 j 10:36	23°♁15'55		evening rise	-432 Nov 24 j 06:24	7°♁49'34	
direct	-434 Jun 15 j 18:24	18°♁45'03			-432 Dec 11 j 22:40	0°♁	
greatest brilliancy	-434 Jun 29 j 20:41	22°♁11'11	-4.5m		-431 Jan 04 j 23:03	0°♁	
	-434 Jul 12 j 20:49	0°♁			-431 Jan 29 j 04:12	0°♁	
morning max el	-434 Aug 03 j 21:10	18°♁55'55	46°01'12		-431 Feb 22 j 17:29	0°♁	
	-434 Aug 14 j 21:42	0°♁		asc. node	-431 Feb 28 j 16:26	7°♁11'31	
	-434 Sep 11 j 05:14	0°♁			-431 Mar 19 j 19:44	0°♁	
asc. node	-434 Sep 13 j 21:22	3°♁04'41			-431 Apr 14 j 18:55	0°♁	
	-434 Oct 06 j 16:05	0°♁			-431 May 12 j 10:05	0°♁	
	-434 Oct 31 j 05:40	0°♁		evening max el	-431 May 25 j 15:51	13°♁11'01	45°21'03
	-434 Nov 24 j 09:25	0°♁			-431 Jun 14 j 03:37	0°♁	
desc. node	-434 Dec 18 j 09:53	0°♁		desc. node	-431 Jun 20 j 06:31	4°♁17'52	
	-433 Jan 03 j 11:27	20°♁04'00		greatest brilliancy	-431 Jul 01 j 00:47	10°♁03'42	-4.5m
	-433 Jan 11 j 10:27	0°♁		retrograde	-431 Jul 13 j 05:06	12°♁39'30	
	-433 Feb 04 j 12:28	0°♁		evening set	-431 Jul 30 j 08:37	7°♁10'16	
morning set	-433 Feb 07 j 01:50	3°♁10'47		inferior conj	-431 Aug 03 j 10:30	4°♁42'24	-8°-9'-7
	-433 Feb 28 j 16:33	0°♁		minimum elong	-431 Aug 03 j 03:28	4°♁53'14	8°08'23
				min. Earth dist.	-431 Aug 03 j 19:29	4°♁28'33	0.28320 AU
superior conj	-433 Mar 18 j 05:43	21°♁42'17	-1°-15'-38	morning rise	-431 Aug 06 j 22:07	2°♁35'06	
minimum elong	-433 Mar 18 j 13:49	22°♁07'20	1°15'29		-431 Aug 11 j 15:03	30°♁	
max. Earth dist.	-433 Mar 20 j 21:17	24°♁58'29	1.73030 AU	direct	-431 Aug 24 j 20:30	26°♁35'14	
	-433 Mar 24 j 23:03	0°♁			-431 Sep 07 j 15:22	0°♁	
	-433 Apr 18 j 08:06	0°♁		greatest brilliancy	-431 Sep 08 j 04:26	0°♁15'28	-4.6m
evening rise	-433 Apr 24 j 20:32	7°♁59'59		asc. node	-431 Oct 11 j 09:12	26°♁18'23	
asc. node	-433 Apr 26 j 14:17	10°♁07'59		morning max el	-431 Oct 14 j 05:28	29°♁09'11	46°42'02
	-433 May 12 j 19:31	0°♁			-431 Oct 15 j 01:30	0°♁	
	-433 Jun 06 j 09:09	0°♁			-431 Nov 11 j 12:52	0°♁	
	-433 Jul 01 j 01:33	0°♁			-431 Dec 07 j 00:25	0°♁	
	-433 Jul 25 j 22:30	0°♁			-431 Dec 31 j 18:52	0°♁	
desc. node	-433 Aug 16 j 04:06	25°♁19'02			-430 Jan 25 j 07:19	0°♁	
	-433 Aug 20 j 03:12	0°♁		desc. node	-430 Jan 30 j 23:19	6°♁56'58	
	-433 Sep 14 j 21:42	0°♁			-430 Feb 18 j 18:08	0°♁	
	-433 Oct 11 j 21:50	0°♁			-430 Mar 15 j 04:58	0°♁	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 15

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

	-430 Apr 08 j 16:16	0°♃		evening set	-428 Oct 10 j 19:10	20°♁22'05	
morning set	-430 Apr 19 j 06:47	12°♃59'52		inferior conj	-428 Oct 15 j 14:41	17°♁32'00	-5°-34'-10
	-430 May 03 j 03:42	0°♃		minimum elong	-428 Oct 16 j 01:03	17°♁16'16	5°31'34
asc. node	-430 May 24 j 02:09	25°♃41'03		min. Earth dist.	-428 Oct 16 j 05:47	17°♁09'07	0.26658 AU
max. Earth dist.	-430 May 24 j 10:12	26°♃05'44	1.73651 AU	morning rise	-428 Oct 21 j 06:25	14°♁12'55	
				direct	-428 Nov 05 j 02:18	9°♁50'38	
superior conj	-430 May 25 j 18:28	27°♃44'49	0°04'01	asc. node	-428 Nov 07 j 21:00	9°♁59'56	
minimum elong	-430 May 25 j 17:40	27°♃42'20	0°03'58	greatest brilliancy	-428 Nov 18 j 03:13	12°♁59'45	-4.7m
behind sun begin	-430 May 24 j 19:56	26°♃35'38			-428 Dec 12 j 00:21	0°♁	
behind sun end	-430 May 26 j 15:24	28°♃49'03		morning max el	-428 Dec 25 j 18:59	13°♁14'47	46°53'18
	-430 May 27 j 14:30	0°♁			-427 Jan 10 j 14:53	0°♁	
	-430 Jun 20 j 23:52	0°♁			-427 Feb 06 j 04:17	0°♁	
evening rise	-430 Jun 30 j 12:45	11°♁45'04		desc. node	-427 Feb 27 j 11:14	24°♁53'51	
	-430 Jul 15 j 07:44	0°♁			-427 Mar 03 j 18:50	0°♁	
	-430 Aug 08 j 15:01	0°♁			-427 Mar 28 j 23:35	0°♁	
	-430 Sep 01 j 23:14	0°♁			-427 Apr 22 j 23:01	0°♁	
desc. node	-430 Sep 12 j 16:09	13°♁09'39			-427 May 17 j 18:30	0°♁	
	-430 Sep 26 j 09:54	0°♁			-427 Jun 11 j 09:48	0°♁	
	-430 Oct 21 j 01:03	0°♁		asc. node	-427 Jun 20 j 13:53	11°♁13'29	
	-430 Nov 15 j 01:15	0°♁		morning set	-427 Jun 25 j 14:04	17°♁22'15	
	-430 Dec 10 j 22:51	0°♁			-427 Jul 05 j 20:21	0°♁	
evening max el	-429 Jan 01 j 12:55	23°♁12'55	46°50'58	max. Earth dist.	-427 Jul 28 j 02:28	27°♁32'03	1.72632 AU
asc. node	-429 Jan 03 j 18:41	25°♁28'21			-427 Jul 30 j 02:07	0°♁	
	-429 Jan 08 j 09:32	0°♁					
greatest brilliancy	-429 Feb 06 j 16:20	22°♁26'49	-4.6m	superior conj	-427 Aug 01 j 00:04	2°♁22'44	1°17'36
retrograde	-429 Feb 20 j 23:47	26°♁09'49		minimum elong	-427 Jul 31 j 17:30	2°♁02'19	1°17'29
evening set	-429 Mar 10 j 13:35	20°♁10'27			-427 Aug 23 j 04:14	0°♁	
min. Earth dist.	-429 Mar 14 j 02:02	17°♁57'48	0.28703 AU	evening rise	-427 Sep 07 j 03:26	18°♁41'49	
inferior conj	-429 Mar 14 j 06:10	17°♁51'14	7°49'39		-427 Sep 16 j 04:29	0°♁	
minimum elong	-429 Mar 14 j 13:12	17°♁40'02	7°48'51		-427 Oct 10 j 04:37	0°♁	
morning rise	-429 Mar 18 j 13:03	15°♁10'57		desc. node	-427 Oct 10 j 04:09	29°♁58'34	
direct	-429 Apr 04 j 13:36	9°♁37'54			-427 Nov 03 j 05:54	0°♁	
greatest brilliancy	-429 Apr 16 j 09:13	12°♁07'58	-4.5m		-427 Nov 27 j 09:45	0°♁	
desc. node	-429 Apr 25 j 08:48	16°♁45'12			-427 Dec 21 j 18:56	0°♁	
	-429 May 12 j 22:37	0°♁			-426 Jan 15 j 15:26	0°♁	
morning max el	-429 May 23 j 08:33	9°♁30'09	45°46'00	asc. node	-426 Jan 31 j 06:33	18°♁20'58	
	-429 Jun 12 j 14:59	0°♁			-426 Feb 10 j 11:17	0°♁	
	-429 Jul 09 j 20:15	0°♁			-426 Mar 10 j 12:33	0°♁	
	-429 Aug 04 j 15:10	0°♁		evening max el	-426 Mar 13 j 12:23	2°♁56'37	45°37'33
asc. node	-429 Aug 16 j 11:34	14°♁09'36		greatest brilliancy	-426 Apr 16 j 15:18	29°♁23'27	-4.5m
	-429 Aug 29 j 13:10	0°♁			-426 Apr 17 j 23:05	0°♁	
	-429 Sep 22 j 21:21	0°♁		retrograde	-426 May 01 j 07:45	3°♁09'15	
	-429 Oct 16 j 21:20	0°♁			-426 May 13 j 23:38	30°♁	
	-429 Nov 09 j 17:40	0°♁		evening set	-426 May 16 j 09:39	28°♁45'22	
morning set	-429 Nov 19 j 08:23	12°♁06'32		inferior conj	-426 May 22 j 18:50	24°♁56'30	0°01'02
	-429 Dec 03 j 13:28	0°♁		minimum elong	-426 May 22 j 18:52	24°♁56'27	0°01'01
desc. node	-429 Dec 06 j 01:42	3°♁09'25		transit begin	-426 May 22 j 14:49	25°♁02'47	
	-429 Dec 27 j 10:25	0°♁		transit end	-426 May 22 j 22:56	24°♁50'07	
				min. Earth dist.	-426 May 23 j 00:36	24°♁47'29	0.28998 AU
superior conj	-429 Dec 31 j 08:36	4°♁55'15	0°-55'-10	desc. node	-426 May 22 j 20:36	24°♁53'45	
minimum elong	-429 Dec 30 j 20:58	4°♁18'47	0°54'45	morning rise	-426 May 29 j 03:55	21°♁06'58	
max. Earth dist.	-428 Jan 04 j 04:37	9°♁43'36	1.71429 AU	direct	-426 Jun 13 j 11:15	16°♁36'49	
	-428 Jan 20 j 09:30	0°♁		greatest brilliancy	-426 Jun 27 j 12:38	20°♁02'38	-4.5m
evening rise	-428 Feb 10 j 04:21	25°♁53'45			-426 Jul 13 j 10:14	0°♁	
	-428 Feb 13 j 11:39	0°♁		morning max el	-426 Aug 01 j 14:01	16°♁47'39	45°59'56
	-428 Mar 08 j 18:05	0°♁			-426 Aug 14 j 16:05	0°♁	
asc. node	-428 Mar 28 j 04:29	23°♁49'14			-426 Sep 10 j 19:41	0°♁	
	-428 Apr 02 j 06:11	0°♁		asc. node	-426 Sep 12 j 23:31	2°♁29'40	
	-428 Apr 27 j 01:26	0°♁			-426 Oct 06 j 04:57	0°♁	
	-428 May 22 j 06:07	0°♁			-426 Oct 30 j 17:44	0°♁	
	-428 Jun 17 j 01:08	0°♁			-426 Nov 23 j 21:02	0°♁	
	-428 Jul 13 j 22:27	0°♁			-426 Dec 17 j 21:14	0°♁	
desc. node	-428 Jul 17 j 18:17	4°♁06'34		desc. node	-425 Jan 02 j 13:29	19°♁35'23	
evening max el	-428 Aug 06 j 07:10	24°♁05'25	46°21'58		-425 Jan 10 j 21:35	0°♁	
	-428 Aug 12 j 12:58	0°♁			-425 Feb 03 j 23:26	0°♁	
greatest brilliancy	-428 Sep 14 j 15:13	23°♁12'41	-4.6m	morning set	-425 Feb 04 j 13:56	0°♁45'05	
retrograde	-428 Sep 24 j 22:49	25°♁10'35			-425 Feb 28 j 03:23	0°♁	

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:42, page 16

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

superior conj	-425 Mar 15 j 21:02	19° Υ 28°05	-1°-17'-9	morning rise	-423 Aug 04 j 15:29	0° Ω 16'45	
minimum elong	-425 Mar 16 j 04:44	19° Υ 51'52	1°17'01		-423 Aug 05 j 02:50	30° \ominus	
max. Earth dist.	-425 Mar 18 j 15:29	22° Υ 53'16	1.72986 AU	direct	-423 Aug 22 j 11:42	24° $\omin�$ 20'01	
	-425 Mar 24 j 09:48	0° Υ		greatest brilliancy	-423 Sep 05 j 19:53	27° $\omin�$ 59'29	-4.6m
	-425 Apr 17 j 18:51	0° Υ			-423 Sep 09 j 15:14	0° Ω	
evening rise	-425 Apr 22 j 14:06	5° Υ 53'40		asc. node	-423 Oct 10 j 11:19	25° Ω 26'25	
asc. node	-425 Apr 25 j 16:21	9° Υ 41'19		morning max el	-423 Oct 11 j 18:30	26° Ω 44'48	46°40'40
	-425 May 12 j 06:23	0° Π			-423 Oct 14 j 22:58	0° \mathbb{N}	
	-425 Jun 05 j 20:16	0° $\omin�$			-423 Nov 11 j 04:49	0° $\underline{\Omega}$	
	-425 Jun 30 j 13:07	0° Ω			-423 Dec 06 j 14:18	0° \mathbb{M}	
	-425 Jul 25 j 10:48	0° \mathbb{N}			-423 Dec 31 j 07:40	0° \mathcal{A}	
desc. node	-425 Aug 15 j 06:13	24° \mathbb{N} 46'03			-422 Jan 24 j 19:25	0° $\overline{\Omega}$	
	-425 Aug 19 j 16:42	0° $\underline{\Omega}$		desc. node	-422 Jan 30 j 01:24	6° $\overline{\Omega}$ 26'34	
	-425 Sep 14 j 13:17	0° \mathbb{M}			-422 Feb 18 j 05:45	0° \approx	
	-425 Oct 11 j 17:57	0° \mathcal{A}			-422 Mar 14 j 16:14	0° Υ	
evening max el	-425 Oct 19 j 14:39	8° \mathcal{A} 07'57	47°23'57		-422 Apr 08 j 03:16	0° Υ	
	-425 Nov 12 j 18:21	0° $\overline{\Omega}$		morning set	-422 Apr 17 j 00:31	10° Υ 53'41	
greatest brilliancy	-425 Nov 26 j 22:26	8° $\overline{\Omega}$ 44'52	-4.7m		-422 May 02 j 14:33	0° Υ	
asc. node	-425 Dec 06 j 08:51	11° $\overline{\Omega}$ 31'48		max. Earth dist.	-422 May 22 j 06:11	24° Υ 06'37	1.73660 AU
retrograde	-425 Dec 09 j 13:13	11° $\overline{\Omega}$ 44'08		asc. node	-422 May 23 j 04:08	25° Υ 13'57	
evening set	-425 Dec 24 j 15:50	7° $\overline{\Omega}$ 07'25					
min. Earth dist.	-425 Dec 29 j 04:59	4° $\overline{\Omega}$ 24'20	0.26907 AU	superior conj	-422 May 23 j 13:11	25° Υ 41'46	0°00'55
inferior conj	-425 Dec 30 j 05:04	3° $\overline{\Omega}$ 46'59	5°37'44	minimum elong	-422 May 23 j 13:00	25° Υ 41'11	0°00'53
minimum elong	-425 Dec 29 j 19:11	4° $\overline{\Omega}$ 02'18	5°35'20	behind sun begin	-422 May 22 j 14:46	24° Υ 32'56	
morning rise	-424 Jan 03 j 23:13	0° $\overline{\Omega}$ 55'20		behind sun end	-422 May 24 j 11:13	26° Υ 49'26	
	-424 Jan 05 j 15:33	30° \mathcal{A}			-422 May 27 j 01:18	0° Π	
direct	-424 Jan 19 j 15:55	26° \mathcal{A} 03'52			-422 Jun 20 j 10:44	0° $\omin�$	
greatest brilliancy	-424 Jan 30 j 06:27	28° \mathcal{A} 10'39	-4.6m	evening rise	-422 Jun 28 j 07:51	9° $\omin�$ 42'23	
	-424 Feb 03 j 10:15	0° $\overline{\Omega}$			-422 Jul 14 j 18:47	0° Ω	
morning max el	-424 Mar 09 j 06:16	27° $\overline{\Omega}$ 29'07	46°16'57		-422 Aug 08 j 02:22	0° \mathbb{N}	
	-424 Mar 11 j 19:36	0° \approx			-422 Sep 01 j 10:59	0° $\underline{\Omega}$	
desc. node	-424 Mar 26 j 23:09	15° \approx 36'36		desc. node	-422 Sep 11 j 18:17	12° $\underline{\Omega}$ 39'26	
	-424 Apr 09 j 05:38	0° Υ			-422 Sep 25 j 22:13	0° \mathbb{M}	
	-424 May 05 j 19:10	0° Υ			-422 Oct 20 j 14:10	0° \mathcal{A}	
	-424 May 31 j 12:43	0° Υ			-422 Nov 14 j 15:40	0° $\overline{\Omega}$	
	-424 Jun 25 j 17:21	0° Π			-422 Dec 10 j 15:57	0° \approx	
asc. node	-424 Jul 18 j 01:46	27° Π 04'10		evening max el	-422 Dec 30 j 02:47	20° \approx 50'33	46°53'25
	-424 Jul 20 j 11:22	0° $\omin�$		asc. node	-421 Jan 02 j 20:50	24° \approx 36'23	
	-424 Aug 13 j 20:09	0° Ω			-421 Jan 08 j 10:58	0° Υ	
morning set	-424 Sep 02 j 16:59	24° Ω 44'22		greatest brilliancy	-421 Feb 04 j 09:53	20° Υ 14'06	-4.6m
	-424 Sep 06 j 21:56	0° \mathbb{N}		retrograde	-421 Feb 18 j 15:37	23° Υ 56'12	
	-424 Sep 30 j 19:32	0° $\underline{\Omega}$		evening set	-421 Mar 08 j 07:45	17° Υ 53'47	
max. Earth dist.	-424 Oct 10 j 05:06	11° $\underline{\Omega}$ 49'24	1.71172 AU	inferior conj	-421 Mar 11 j 22:13	15° Υ 37'56	7°57'41
				minimum elong	-421 Mar 12 j 04:43	15° Υ 27'36	7°57'01
superior conj	-424 Oct 11 j 07:32	13° $\underline{\Omega}$ 12'36	0°57'06	min. Earth dist.	-421 Mar 11 j 17:30	15° Υ 45'27	0.28664 AU
minimum elong	-424 Oct 11 j 18:18	13° $\underline{\Omega}$ 46'25	0°56'43	morning rise	-421 Mar 16 j 01:52	13° Υ 02'26	
	-424 Oct 24 j 15:40	0° \mathbb{M}		direct	-421 Apr 02 j 04:26	7° Υ 25'10	
desc. node	-424 Nov 06 j 15:57	16° \mathbb{M} 22'24		greatest brilliancy	-421 Apr 13 j 23:26	9° Υ 54'15	-4.5m
	-424 Nov 17 j 12:05	0° \mathcal{A}		desc. node	-421 Apr 24 j 10:44	15° Υ 26'59	
evening rise	-424 Nov 21 j 15:51	5° \mathcal{A} 13'25			-421 May 13 j 02:06	0° Υ	
	-424 Dec 11 j 09:54	0° $\overline{\Omega}$		morning max el	-421 May 20 j 23:25	7° Υ 17'00	45°46'27
	-423 Jan 04 j 10:22	0° \approx			-421 Jun 12 j 07:58	0° Υ	
	-423 Jan 28 j 15:42	0° Υ			-421 Jul 09 j 10:10	0° Π	
	-423 Feb 22 j 05:24	0° Υ			-421 Aug 04 j 03:44	0° $\omin�$	
asc. node	-423 Feb 27 j 18:37	6° Υ 41'49		asc. node	-421 Aug 15 j 13:43	13° $\omin�$ 39'16	
	-423 Mar 19 j 08:28	0° Υ			-421 Aug 29 j 01:05	0° Ω	
	-423 Apr 14 j 09:23	0° Π			-421 Sep 22 j 08:56	0° \mathbb{N}	
	-423 May 12 j 04:54	0° $\omin�$			-421 Oct 16 j 08:44	0° $\underline{\Omega}$	
evening max el	-423 May 23 j 06:38	10° $\omin�$ 57'25	45°20'03		-421 Nov 09 j 04:59	0° \mathbb{M}	
	-423 Jun 14 j 19:57	0° Ω		morning set	-421 Nov 16 j 18:38	9° \mathbb{M} 32'03	
desc. node	-423 Jun 19 j 08:34	3° Ω 00'10			-421 Dec 03 j 00:44	0° \mathcal{A}	
greatest brilliancy	-423 Jun 28 j 13:56	7° Ω 48'22	-4.5m	desc. node	-421 Dec 05 j 03:41	2° \mathcal{A} 40'14	
retrograde	-423 Jul 10 j 19:00	10° Ω 25'24			-421 Dec 26 j 21:40	0° $\overline{\Omega}$	
evening set	-423 Jul 27 j 20:01	5° Ω 01'01					
inferior conj	-423 Aug 01 j 01:30	2° Ω 27'51	-8°00'-44	superior conj	-421 Dec 28 j 18:13	2° $\overline{\Omega}$ 19'43	0°-52'-4
minimum elong	-423 Jul 31 j 17:53	2° Ω 39'36	7°59'51	minimum elong	-421 Dec 28 j 06:48	1° $\overline{\Omega}$ 43'54	0°51'38
min. Earth dist.	-423 Aug 01 j 10:10	2° Ω 14'28	0.28362 AU	max. Earth dist.	-420 Jan 01 j 09:04	6° $\overline{\Omega}$ 51'56	1.71388 AU

Planetary Phenomena of Venus from -500 through -400 (UT), Astrodienst AG 24-Mai-2003 10:43, page 17

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

	-420 Jan 19 j 20:44	0°≈		morning max el	-418 Jul 30 j 06:23	14°Ⅱ37'30	45°58'47
evening rise	-420 Feb 07 j 16:22	23°≈27'03			-418 Aug 14 j 10:19	0°☉	
	-420 Feb 12 j 22:53	0°✕			-418 Sep 10 j 10:14	0°♁	
	-420 Mar 08 j 05:23	0°♃		asc. node	-418 Sep 12 j 01:35	1°♁53'58	
asc. node	-420 Mar 27 j 06:33	23°♃20'40			-418 Oct 05 j 18:00	0°♃	
	-420 Apr 01 j 17:39	0°♃			-418 Oct 30 j 06:04	0°♃	
	-420 Apr 26 j 13:20	0°Ⅱ			-418 Nov 23 j 08:59	0°♃	
	-420 May 21 j 18:51	0°☉			-418 Dec 17 j 08:56	0°♃	
	-420 Jun 16 j 15:25	0°♁		desc. node	-417 Jan 01 j 15:39	19°♃06'09	
	-420 Jul 13 j 16:04	0°♃			-417 Jan 10 j 09:04	0°♃	
desc. node	-420 Jul 16 j 20:24	3°♃23'30		morning set	-417 Feb 02 j 01:28	28°♃16'35	
evening max el	-420 Aug 03 j 19:51	21°♃41'58	46°19'10		-417 Feb 03 j 10:43	0°≈	
	-420 Aug 12 j 16:58	0°♃			-417 Feb 27 j 14:30	0°✕	
greatest brilliancy	-420 Sep 12 j 02:42	20°♃44'27	-4.6m				
retrograde	-420 Sep 22 j 11:08	22°♃42'57		superior conj	-417 Mar 13 j 11:53	17°✕11'24	-1°-18'-34
evening set	-420 Oct 08 j 10:31	17°♃49'21		minimum elong	-417 Mar 13 j 19:04	17°✕33'38	1°18'27
inferior conj	-420 Oct 13 j 02:55	15°♃03'45	-5°-52'-31	max. Earth dist.	-417 Mar 16 j 11:16	20°✕51'58	1.72939 AU
minimum elong	-420 Oct 13 j 13:30	14°♃47'44	5°49'58		-417 Mar 23 j 20:51	0°♃	
min. Earth dist.	-420 Oct 13 j 18:47	14°♃39'45	0.26710 AU		-417 Apr 17 j 05:55	0°♃	
morning rise	-420 Oct 18 j 15:59	11°♃48'39		evening rise	-417 Apr 20 j 07:22	3°♃45'26	
direct	-420 Nov 02 j 15:25	7°♃21'26		asc. node	-417 Apr 24 j 18:20	9°♃13'28	
asc. node	-420 Nov 06 j 22:58	7°♃43'44			-417 May 11 j 17:34	0°Ⅱ	
greatest brilliancy	-420 Nov 15 j 18:41	10°♃33'50	-4.7m		-417 Jun 05 j 07:41	0°☉	
	-420 Dec 12 j 06:26	0°♃			-417 Jun 30 j 00:59	0°♁	
morning max el	-420 Dec 23 j 09:20	10°♃50'18	46°53'53		-417 Jul 24 j 23:23	0°♃	
	-419 Jan 10 j 09:25	0°♃		desc. node	-417 Aug 14 j 08:21	24°♃12'23	
	-419 Feb 05 j 19:21	0°♃			-417 Aug 19 j 06:30	0°♃	
desc. node	-419 Feb 26 j 13:23	24°♃19'54			-417 Sep 14 j 05:16	0°♃	
	-419 Mar 03 j 08:14	0°≈			-417 Oct 11 j 14:59	0°♃	
	-419 Mar 28 j 12:00	0°✕		evening max el	-417 Oct 17 j 05:36	5°♃45'40	47°22'56
	-419 Apr 22 j 10:48	0°♃			-417 Nov 13 j 16:41	0°♃	
	-419 May 17 j 05:50	0°♃		greatest brilliancy	-417 Nov 24 j 14:18	6°♃19'39	-4.7m
	-419 Jun 10 j 20:53	0°Ⅱ		asc. node	-417 Dec 05 j 11:00	9°♃12'15	
asc. node	-419 Jun 19 j 16:02	10°Ⅱ46'17		retrograde	-417 Dec 07 j 02:40	9°♃15'36	
morning set	-419 Jun 23 j 08:23	15°Ⅱ17'19		evening set	-417 Dec 22 j 02:19	4°♃43'47	
	-419 Jul 05 j 07:19	0°☉		min. Earth dist.	-417 Dec 26 j 18:30	1°♃56'17	0.26847 AU
max. Earth dist.	-419 Jul 25 j 22:09	25°☉30'06	1.72685 AU	inferior conj	-417 Dec 27 j 18:02	1°♃19'47	5°19'37
				minimum elong	-417 Dec 27 j 08:22	1°♃34'47	5°17'10
superior conj	-419 Jul 29 j 17:38	0°♁14'03	1°16'17		-417 Dec 29 j 21:52	30°♃	
minimum elong	-419 Jul 29 j 10:39	29°☉52'21	1°16'08	morning rise	-416 Jan 01 j 15:08	28°♃24'00	
	-419 Jul 29 j 13:07	0°♁		direct	-416 Jan 17 j 04:45	23°♃37'55	
	-419 Aug 22 j 15:20	0°♃		greatest brilliancy	-416 Jan 27 j 19:12	25°♃44'37	-4.6m
evening rise	-419 Sep 04 j 18:10	16°♃22'53			-416 Feb 05 j 09:11	0°♃	
	-419 Sep 15 j 15:46	0°♃		morning max el	-416 Mar 06 j 19:08	25°♃06'04	46°18'23
desc. node	-419 Oct 09 j 06:08	29°♃28'45			-416 Mar 11 j 17:37	0°≈	
	-419 Oct 09 j 16:09	0°♃		desc. node	-416 Mar 26 j 01:07	14°≈53'29	
	-419 Nov 02 j 17:43	0°♃			-416 Apr 08 j 21:36	0°✕	
	-419 Nov 26 j 21:54	0°♃			-416 May 05 j 08:46	0°♃	
	-419 Dec 21 j 07:35	0°≈			-416 May 31 j 01:07	0°♃	
	-418 Jan 15 j 05:00	0°✕		asc. node	-416 Jun 25 j 05:04	0°Ⅱ	
asc. node	-418 Jan 30 j 08:42	17°✕44'59			-416 Jul 17 j 03:53	26°Ⅱ36'02	
	-418 Feb 10 j 02:54	0°♃			-416 Jul 19 j 22:41	0°☉	
	-418 Mar 10 j 10:01	0°♃			-416 Aug 13 j 07:16	0°♁	
evening max el	-418 Mar 11 j 04:50	0°♃45'57	45°39'32	morning set	-416 Aug 31 j 08:13	22°♁27'28	
greatest brilliancy	-418 Apr 14 j 07:39	27°♃14'23	-4.5m		-416 Sep 06 j 08:58	0°♃	
	-418 Apr 21 j 16:04	0°Ⅱ			-416 Sep 30 j 06:36	0°♃	
retrograde	-418 Apr 29 j 00:44	1°Ⅱ00'20		max. Earth dist.	-416 Oct 07 j 10:24	9°♃00'18	1.71203 AU
	-418 May 06 j 03:00	30°♃					
evening set	-418 May 14 j 03:00	26°♃35'17		superior conj	-416 Oct 08 j 19:58	10°♃45'51	0°59'48
inferior conj	-418 May 20 j 11:15	22°♃47'11	0°20'40	minimum elong	-416 Oct 09 j 06:42	11°♃19'40	0°59'26
minimum elong	-418 May 20 j 12:00	22°♃45'59	0°20'27		-416 Oct 24 j 02:48	0°♃	
min. Earth dist.	-418 May 20 j 16:46	22°♃38'33	0.29002 AU	desc. node	-416 Nov 05 j 18:00	15°♃53'46	
desc. node	-418 May 21 j 22:40	21°♃51'55			-416 Nov 16 j 23:18	0°♃	
morning rise	-418 May 26 j 20:58	18°♃56'51		evening rise	-416 Nov 19 j 01:36	2°♃37'58	
direct	-418 Jun 11 j 04:11	14°♃27'35			-416 Dec 10 j 21:13	0°♃	
greatest brilliancy	-418 Jun 25 j 03:18	17°♃51'29	-4.5m		-415 Jan 03 j 21:49	0°≈	
	-418 Jul 13 j 20:38	0°Ⅱ			-415 Jan 28 j 03:24	0°✕	

Attention, astronomical year style is used: The year -500 in astronomical counting style is the year 501 BCE in historical counting style.

morning max el	-400 Mar 01 j 19:58	20°♁18'08	46°21'27
	-400 Mar 11 j 10:55	0°♁	
desc. node	-400 Mar 24 j 05:23	13°♁30'52	
	-400 Apr 08 j 04:26	0°♁	
	-400 May 04 j 11:20	0°♁	
	-400 May 30 j 01:26	0°♁	
	-400 Jun 24 j 04:07	0°♁	
asc. node	-400 Jul 15 j 08:02	25°♁40'22	
	-400 Jul 18 j 21:00	0°♁	
	-400 Aug 12 j 05:16	0°♁	