Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 1 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	ie year -5399 i	n astronomical co	unting style is the year	5400 BCE in historical c	ounting style.	
conjunction	-5399 Jun 03 j 10:22	29° Y 27'15	0°44'35		-5394 May 06 j 02:02	0° ≈ ≈	
minimum elong	-5399 Jun 03 j 09:06	29° Y °25'12	0°44'43		-5394 Jun 24 j 10:25	0° ∀	
	-5399 Jun 04 j 06:49	0°8		retrograde	-5394 Sep 07 j 15:38	25° ∺ 25'59	
morning rise	-5399 Jul 18 j 22:05	28° 8 52'52		min. Earth dist.	-5394 Oct 14 j 18:50	16° ∺ 38'20	0.64586 AU
	-5399 Jul 20 j 15:07	Π °0		opposition	-5394 Oct 17 j 15:24	15° ¥ 29′17	-0°30'57
	-5399 Sep 03 j 19:34	0 \circ 50		greatest brilliancy	-5394 Oct 17 j 14:20	15°) 30′22	-1.5m
	-5399 Oct 17 j 18:47	$0^{\circ}\Omega$		asc. node	-5394 Oct 30 j 21:10	10° 米 31'55	
	-5399 Nov 29 j 18:15	0° m		direct	-5394 Nov 25 j 15:27	6° ∺ 11'41	
	-5398 Jan 11 j 05:43	0∘ ⊽			-5393 Feb 10 j 03:15	0° Υ	
	-5398 Feb 23 j 07:47	0°M₊			-5393 Apr 05 j 21:33	0°B	
desc. node	-5398 Mar 06 j 20:47	7° ጤ 45'41			-5393 May 24 j 07:23	0°Щ	
	-5398 Apr 11 j 12:50	0° ∡ ¹			-5393 Jul 08 j 00:32	0°9	
retrograde	-5398 Jun 14 j 16:38	22° х 09'42	0.42002.477		-5393 Aug 18 j 22:22	0°N	
min. Earth dist.	-5398 Jul 11 j 22:18		0.43892 AU	evening set	-5393 Aug 21 j 07:23	1° Ω 45'03	2 40 402 411
greatest brilliancy	-5398 Jul 18 j 06:08	15° × 707'21		max. Earth dist.	-5393 Sep 13 j 15:55		2.40482 AU
opposition	-5398 Jul 19 j 21:44 -5398 Aug 20 j 19:02	14° х ⁷ 34'33 8° х ⁷ 21'36	-0-1/21		-5393 Sep 27 j 18:44	0° m)	
direct	• .	8 x·2136		aaniunatian	5202 Oat 19 i 02:10	15° m)44'19	0.06155
	-5398 Oct 28 j 08:32 -5398 Dec 21 j 09:53	0°≈		conjunction minimum elong	-5393 Oct 18 j 03:10 -5393 Oct 18 j 03:43	15° Mp 45'24	
asc. node	-5397 Jan 25 j 17:16	0 ∞ 21°≈04'52		behind sun begin	-5393 Oct 18 j 03:49	13 m/43 24 14° m/58'55	0 0/01
asc. node	-5397 Feb 09 j 10:02	0° \		behind sun end	-5393 Oct 17 j 03:49	16° My 31'55	
	-5397 Mar 30 j 05:11	0°Υ		desc. node	-5393 Oct 27 j 12:57	23° m) 04'40	
	-5397 May 16 j 23:00	0°8		dese. Hode	-5393 Nov 05 j 09:07	0∘ ⊽	
evening set	-5397 May 25 j 18:29	5° 8 38'02			-5393 Dec 13 j 14:33	0° M ,	
max. Earth dist.	-5397 Jun 21 j 06:54		2.62080 AU	morning rise	-5393 Dec 22 j 07:35	6° M 48′15	
	-5397 Jul 02 j 05:15	$\Pi^{\circ}0$		C	-5392 Jan 21 j 08:08	0° ∡ ¹	
	J				-5392 Mar 01 j 10:12	0°ರ	
conjunction	-5397 Jul 11 j 21:44	6° Ⅱ 25'46	1°09'29		-5392 Apr 12 j 16:13	0° ≈	
minimum elong	-5397 Jul 11 j 21:03	6° Ⅱ 24'38	1°09'44		-5392 May 28 j 00:22	0° ∀	
	-5397 Aug 15 j 16:06	0 \circ \odot			-5392 Jul 17 j 15:19	0° Y	
morning rise	-5397 Aug 27 j 22:49	8° 5 31'05		asc. node	-5392 Sep 16 j 23:18	26° Y 20'38	
	-5397 Sep 27 j 07:03	0 $^{\circ}$ Ω		retrograde	-5392 Oct 11 j 11:39	29° Ƴ 44'01	
	-5397 Nov 07 j 08:53	0° m		opposition	-5392 Nov 20 j 03:22	20° Y 10′37	
	-5397 Dec 17 j 09:19	0∘ ⊽		greatest brilliancy	-5392 Nov 20 j 03:51	20° Y 10′08	-1.3m
desc. node	-5396 Jan 22 j 19:30	27° △ 33'15		min. Earth dist.	-5392 Nov 21 j 00:30	19° Ƴ 49'27	0.66986 AU
	-5396 Jan 26 j 01:20	0° M ₊		direct	-5392 Dec 30 j 20:42	10° Y 17′25	
	-5396 Mar 06 j 09:27	0° ∡ ¹			-5391 Mar 08 j 05:38	0° B	
	-5396 Apr 18 j 04:19	0°る			-5391 May 01 j 12:02	0°II	
	-5396 Jun 07 j 13:33	0°≈			-5391 Jun 16 j 20:22	0° U 0∘æ	
retrograde	-5396 Jul 31 j 20:34 -5396 Sep 02 j 10:22	15°≈56'59	0.56214.411		-5391 Jul 29 j 05:18	0° m y	
min. Earth dist. opposition	-5396 Sep 02 j 10.22 -5396 Sep 08 j 19:43	8 ≈47 16 6°≈18'00	0.56214 AU	desc. node	-5391 Sep 07 j 02:39 -5391 Sep 13 j 08:46	0 ily 4° Mp49'20	
greatest brilliancy	-5396 Sep 08 j 00:41	6°≈36'31		desc. Hode	-5391 Sep 15 j 08:40	4 11/4920	
greatest offinancy	-5396 Sep 28 j 05:39	0 ≈3031 30°Rる	-1.6111	evening set	-5391 Oct 13 j 14:30	0 = 4° £ 21'53	
direct	-5396 Oct 14 j 19:36	28°පි08'13		evening set	-5391 Nov 22 j 18:33	0° M	
	-5396 Nov 01 j 14:29	0° ≈			22,1110, 22,10.33	0 110	
asc. node	-5396 Dec 12 j 18:23	14° ≈ 07'32		conjunction	-5391 Dec 25 j 06:35	25°M14'20	-1°01'22
	-5395 Jan 14 j 01:30	0° ∀		minimum elong	-5391 Dec 25 j 03:57	25°M09'17	
	-5395 Mar 08 j 11:25	0° Υ		C	-5391 Dec 31 j 11:49	0° ∡ ¹	
	-5395 Apr 26 j 22:15	0°8			-5390 Feb 09 j 13:56	ნ°0	
	-5395 Jun 12 j 16:52	$\Pi^{\circ}0$		max. Earth dist.	-5390 Feb 11 j 10:23	1° る 21'12	2.43441 AU
evening set	-5395 Jul 04 j 07:49	14° Ⅲ 26′29		morning rise	-5390 Feb 27 j 18:54	13° る 10'30	
max. Earth dist.	-5395 Jul 21 j 04:50	25° Ⅱ 58'50	2.52622 AU		-5390 Mar 23 j 15:43	0° ≈ ≈	
	-5395 Jul 26 j 23:55	0°€			-5390 May 07 j 02:29	0° ∀	
					-5390 Jun 23 j 08:09	0° Y	
conjunction	-5395 Aug 23 j 10:36	19° © 25'18	1°02'22	asc. node	-5390 Aug 04 j 23:22	25° Y ′06'51	
minimum elong	-5395 Aug 23 j 12:10	19° © 28'07	1°02'40		-5390 Aug 13 j 19:38	0°B	
	-5395 Sep 07 j 00:39	0 $^{\circ}\Omega$			-5390 Oct 20 j 21:31	0°II	
morning rise	-5395 Oct 15 j 22:30	29° Ω 00′28		retrograde	-5390 Nov 17 j 07:31	4° Ⅱ 04'21	
	-5395 Oct 17 j 05:53	0° m)			-5390 Dec 12 j 12:06	30°R8	4000:50
	-5395 Nov 25 j 06:54	0∘ ⊽		opposition	-5390 Dec 25 j 13:42	25° 8 17'50	4°29'58
desc. node	-5395 Dec 09 j 16:44	11° £ 11'01		greatest brilliancy	-5390 Dec 26 j 05:08	25° 8 02'48	-1.5m
	-5394 Jan 02 j 22:21	0°M 0°. ₹		min. Earth dist.	-5390 Dec 30 j 05:18	23° 8 29'14	0.63100 AU
	-5394 Feb 11 j 01:08	0°⋜		direct	-5389 Feb 04 j 14:42	15° 岁 19'22 0°耳	
	-5394 Mar 23 j 15:24	υ Ο			-5389 Mar 31 j 10:02	υц	

•	omena of Mars fron		•	, ·		, ,	e 2
Attention, astronom	ical year style is used: Th	-	in astronomical cou				
	-5389 May 24 j 06:44	0		max. Earth dist.	-5384 May 18 j 07:12	14° ′Y' 47'18	2.66995 AU
	-5389 Jul 07 j 16:00	0 $^{\circ}$ Ω					
desc. node	-5389 Aug 01 j 07:27	17° Ω 58'15		conjunction	-5384 May 19 j 18:59	15° Ƴ 44'22	0°29'39
	-5389 Aug 17 j 07:29	0° m y		minimum elong	-5384 May 19 j 17:59	15° Ƴ 42'45	0°29'42
	-5389 Sep 25 j 04:42	0∘ ত			-5384 Jun 11 j 02:46	9° 8	
	-5389 Nov 02 j 15:16	0° M .		morning rise	-5384 Jul 04 j 13:17	15° 8 02'56	
	-5389 Dec 11 j 16:03	0° ∡ ¹		, and the second	-5384 Jul 27 j 15:50	0°II	
evening set	-5389 Dec 27 j 09:21	11° ∡ ¹48'58			-5384 Sep 11 j 08:55	0° ©	
5 / T 8 # 5 7	-5388 Jan 21 j 02:23	0°ಕ			-5384 Oct 26 j 06:20	0°N	
	5500 Juli 21 j 02.25	ů O			-5384 Dec 09 j 16:52	0° m/y	
conjunction	-5388 Feb 24 j 09:11	24° る 23'59	0050140		-5383 Jan 23 j 12:43	0∘ ত الم	
3		24° る 23′39			·	0 == 0° M ₊	
minimum elong	-5388 Feb 24 j 11:07		0 39 04	1 1	-5383 Mar 12 j 13:47		
	-5388 Mar 03 j 10:43	0° ≈		desc. node	-5383 Mar 23 j 12:28	6°M03'01	
max. Earth dist.	-5388 Mar 27 j 13:05	16°≈26'51	2.55888 AU	retrograde	-5383 May 21 j 03:37	24°M42'17	
	-5388 Apr 16 j 20:42	0°)		min. Earth dist.	-5383 Jun 17 j 00:10	20° M ₁4'13	0.39777 AU
morning rise	-5388 Apr 19 j 00:27	1° ∺ 25'22		opposition	-5383 Jun 22 j 23:32	18° M 29'15	
	-5388 Jun 02 j 05:12	0° Υ		greatest brilliancy	-5383 Jun 21 j 17:49	18° M 51'05	-2.8m
asc. node	-5388 Jun 21 j 20:41	12° Y 22'36		direct	-5383 Jul 23 j 06:45	13°M06'43	
	-5388 Jul 20 j 09:29	$_{0\circ}$ 8			-5383 Sep 19 j 05:49	0° ∡ ¹	
	-5388 Sep 09 j 03:59	Π°			-5383 Nov 12 j 06:57	0°₹	
	-5388 Nov 06 j 21:13	0ංම			-5383 Dec 31 j 06:59	0° ≈	
retrograde	-5388 Dec 31 j 04:55	13° © 45'21		asc. node	-5382 Feb 11 j 09:03	26°≈11'47	
opposition	-5387 Feb 04 i 19:48	6°9516'53	5°25'32		-5382 Feb 17 j 11:24	0°) €	
greatest brilliancy	-5387 Feb 06 j 07:36	5°9644'34	-1.9m		-5382 Apr 06 j 10:51	0° Υ	
min. Earth dist.	-5387 Feb 12 j 18:37	3°925'40	0.53203 AU	evening set	-5382 May 10 j 18:45	21° Υ '40'02	
mm. Earth dist.	•		0.33203 AO	evening set	• •	0°8	
11	-5387 Feb 23 j 16:11	30°RII		E d F	-5382 May 23 j 20:36	_	0 (4401 441
direct	-5387 Mar 16 j 01:04	27° Ⅱ 10'57		max. Earth dist.	-5382 Jun 11 j 05:57	11° 0 49'18	2.64491 AU
	-5387 Apr 06 j 06:28	0°9					
	-5387 Jun 08 j 13:43	0 \circ Ω		conjunction	-5382 Jun 26 j 15:53		1°02'42
desc. node	-5387 Jun 18 j 08:41	6° Ω 13'46		minimum elong	-5382 Jun 26 j 14:44	21° 8 48'16	1°02'55
	-5387 Jul 22 j 22:40	0° m þ			-5382 Jul 09 j 02:25	Π °0	
	-5387 Sep 01 j 12:15	0∘ ⊽		morning rise	-5382 Aug 11 j 15:55	22° Ⅱ 25'52	
	-5387 Oct 11 j 01:29	0° M .			-5382 Aug 22 j 18:42	0 \circ \odot	
	-5387 Nov 20 j 00:30	0° ∡ ¹			-5382 Oct 04 j 19:43	$0^{\circ}\Omega$	
	-5387 Dec 31 j 06:34	5°0			-5382 Nov 15 j 11:11	0° m)	
	-5386 Feb 12 j 07:26	0° ≈			-5382 Dec 26 j 03:34	0∘ ত	
evening set	-5386 Feb 18 j 10:15	4°≈09'42			-5381 Feb 04 j 14:17	0° M .	
Č	-5386 Mar 29 j 03:52	0°)		desc. node	-5381 Feb 08 i 13:34	2°M55'24	
					-5381 Mar 18 j 02:01	0° ∡ ¹	
conjunction	-5386 Apr 11 j 04:29	8°) 31′04	-0°16'07		-5381 May 02 j 15:27	0°ප	
minimum elong	-5386 Apr 11 j 05:10	8° ¥ 32'11		retrograde	-5381 Jul 15 j 23:15	27° පි 38'18	
max. Earth dist.	-5386 Apr 24 j 18:50	17° ¥ 20′27		min. Earth dist.	-5381 Aug 15 j 09:59	21° る 18'09	0.51611 AU
asc. node	-5386 May 09 j 15:50	26°\(\frac{1}{55}\)'05	2.04104 AU		-5381 Aug 22 j 22:20	18° る 29'29	
asc. node		20 π 33 03 0° Υ		opposition	• •		
	-5386 May 14 j 11:11			greatest brilliancy	-5381 Aug 21 j 16:45	18°る57'15	-2.1m
morning rise	-5386 May 29 j 15:39	9° Y 42'06		direct	-5381 Sep 26 j 10:01	10°る58'42	
	-5386 Jun 30 j 15:23	0°B		_	-5381 Nov 30 j 05:35	0° ≈	
	-5386 Aug 17 j 06:46	0°II		asc. node	-5381 Dec 30 j 08:51	15° ≈ 22'43	
	-5386 Oct 04 j 14:32	0ංම			-5380 Jan 25 j 15:44	0° ∀	
	-5386 Nov 24 j 03:07	$0^{\circ}\Omega$			-5380 Mar 16 j 14:25	0° Υ	
	-5385 Jan 24 j 01:31	0° m y			-5380 May 04 j 04:47	9° 8	
retrograde	-5385 Mar 05 j 01:10	8° m 23'32		evening set	-5380 Jun 18 j 00:37	28° 8 53'37	
opposition	-5385 Apr 05 j 12:03	2° m 53'36	2°10'41		-5380 Jun 19 j 16:51	$\Pi^{\circ}0$	
greatest brilliancy	-5385 Apr 06 j 03:11	2° Mp 42'33	-2.7m	max. Earth dist.	-5380 Jul 08 j 01:22	12° Ⅲ 14'43	2.56837 AU
min. Earth dist.	-5385 Apr 11 j 16:52	1°Mp05'18	0.40728 AU		-5380 Aug 03 j 00:25	0°ഇ	
	-5385 Apr 15 j 15:26	30° ₽ Ω			G J		
desc. node	-5385 May 06 j 10:05	26° Ω 37'03		conjunction	-5380 Aug 05 j 12:18	1° 5 644'03	1°10'06
direct	-5385 May 08 j 23:38	26° Ω 34'19		minimum elong	-5380 Aug 05 j 12:54		1°10'24
	-5385 May 31 j 21:27	0° m)		ciong	-5380 Sep 14 j 05:40	0°Ω	·
	-5385 May 31 j 21:27	0∘ ত الله		morning rise	-5380 Sep 14 j 05:40	7° Ω 39'39	
		0° M		morning 1150		0° m)	
	-5385 Sep 14 j 10:19				-5380 Oct 24 j 17:41		
	-5385 Oct 27 j 12:09	0° ⊼		1 1	-5380 Dec 03 j 02:10	0° ⊽	
	-5385 Dec 09 j 21:40	0° ප		desc. node	-5380 Dec 26 j 10:54	18° ≏ 00'02	
	-5384 Jan 23 j 11:09	0° ≈			-5379 Jan 11 j 00:46	0° M ₊	
	-5384 Mar 09 j 07:48	0° ∺			-5379 Feb 19 j 11:01	0° ∡	
asc. node	-5384 Mar 26 j 11:38	11° ∺ 03'01			-5379 Apr 01 j 12:34	0°ප	
evening set	-5384 Apr 01 j 19:16	15° 米 06′12			-5379 May 16 j 03:54	0° ≈	
	-5384 Apr 25 j 02:37	0° Y			-5379 Jul 10 j 02:34	0°)	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5379 Aug 24 j 14:56 11°**)** 14'29 -5374 Oct 03 i 03:04 0∘**⊽** retrograde -5379 Sep 29 j 03:02 3°**₭**00'56 0.61978 AU -5374 Nov 10 j 09:26 0°M min. Earth dist. 1°**¥**17'35 -1°44'54 -5379 Oct 03 j 10:19 -5374 Dec 02 j 02:36 16°M52'04 opposition evening set -5379 Oct 03 j 04:26 1°**¥**23'27 -1.6m -5374 Dec 19 j 05:49 0°**∡**7 greatest brilliancy -5379 Oct 06 j 16:39 30°R≈ -5373 Jan 28 j 11:22 0°궁 direct -5379 Nov 10 j 10:04 22°≈21'57 asc. node -5379 Nov 16 j 10:50 22°≈35'17 conjunction -5373 Feb 02 j 12:30 3°**ප්**40'15 -1°07'45 0°**)**€ -5379 Dec 19 j 03:01 minimum elong -5373 Feb 02 j 13:28 3°₹42'00 1°08'03 $0^{\circ}\Upsilon$ -5378 Feb 21 j 07:44 -5373 Mar 11 j 15:22 0°≈ -5378 Apr 14 j 04:27 0°8 max. Earth dist. -5373 Mar 14 j 18:10 2°≈09'30 2.51334 AU -5378 May 31 j 18:33 $0^{\circ}\Pi$ morning rise -5373 Apr 01 j 19:51 14°≈31'17 -5378 Jul 15 j 06:14 0ಂತಾ -5373 Apr 24 j 23:32 0°\ -5373 Jun 10 j 12:26 $0^{\circ}\Upsilon$ evening set -5378 Aug 01 j 07:04 11°959'37 max. Earth dist. -5378 Aug 17 j 05:09 23°9526'58 2.45167 AU asc. node -5373 Jul 09 j 12:20 17°**Y**58'17 -5378 Aug 26 j 04:13 $0^{\circ}\Omega$ -5373 Jul 29 j 12:08 0°8 -5373 Sep 21 j 01:35 $0^{\circ}\Pi$ conjunction -5378 Sep 24 j 11:55 21° \$\Omega 54'02 0° 34' 27 retrograde -5373 Dec 13 j 06:13 27°**Ⅲ**25'33 minimum elong -5378 Sep 24 j 13:58 21°**Ω**57'56 0°34'37 opposition -5372 Jan 19 j 02:03 19°**Ⅲ**21'40 5°18'37 18°**Ⅱ**54'45 -5378 Oct 05 j 03:09 greatest brilliancy -5372 Jan 20 j 06:43 -1.7m -5378 Nov 12 j 20:43 min. Earth dist. -5372 Jan 25 j 21:41 16°**Ⅱ**48'32 0.57709 AU desc. node -5378 Nov 13 j 07:12 0°**£**20'29 direct -5372 Feb 28 j 08:53 9° **1**44′54 morning rise -5378 Nov 24 i 02:58 8°**-**48'35 -5372 May 02 j 17:34 0ಂತಾ -5378 Dec 21 i 04:53 0°M -5372 Jun 20 j 19:59 $0^{\circ}\Omega$ -5377 Jan 29 i 00:38 0°×7 desc. node -5372 Jul 05 i 00:46 9°**Ω**47'23 -5377 Mar 10 j 05:07 0°정 -5372 Aug 01 j 23:32 0° m -5377 Apr 21 j 17:08 0°**≈** -5372 Sep 10 j 14:42 0∘**⊽** -5377 Jun 06 j 21:30 0°**₩** -5372 Oct 19 j 13:39 0°M -5377 Jul 31 j 05:12 $0^{\circ}\Upsilon$ -5372 Nov 28 j 01:10 0°×7 16°**Y**49'41 0°궁 -5377 Sep 28 j 23:26 -5371 Jan 07 j 21:14 retrograde -5371 Jan 30 j 00:26 -5377 Oct 04 j 13:40 16°**℃**37'11 15°る43'41 asc. node evening set -5377 Nov 07 j 21:27 7°**Y**′04′06 1°16'52 -5371 Feb 19 j 13:38 opposition 0°≈ min. Earth dist. -5377 Nov 07 j 07:08 7°**Υ**18'30 0.66800 AU -5371 Mar 25 j 04:21 greatest brilliancy -5377 Nov 07 j 20:06 7°**Υ**05'28 22°≈43'02 -0°34'22 -1.4m conjunction -5377 Nov 27 j 23:33 -5371 Mar 25 j 05:50 30°**₹** minimum elong 22°≈45'29 0°34'34 -5377 Dec 18 j 02:28 27°**)** 21'38 -5371 Apr 05 j 04:12 direct 0°**₩** $0^{\circ}\Upsilon$ -5371 Apr 14 j 14:31 -5376 Jan 08 j 21:16 max. Earth dist. 6°**升**11'45 2.61477 AU 0°8 -5376 Mar 20 j 05:46 morning rise -5371 May 14 j 14:11 25°**)** 37'44 -5376 May 10 j 04:53 $0^{\circ}II$ -5371 May 21 j 09:54 $0^{\circ}\Upsilon$ -5376 Jun 24 j 17:05 0ಂತಾ asc. node -5371 May 26 j 09:20 3°Y10'46 -5376 Aug 05 j 19:55 $0^{\circ}\Omega$ -5371 Jul 07 j 19:55 0°8 -5376 Sep 14 j 15:51 -5371 Aug 25 j 07:07 $\Pi^{\circ}0$ -5376 Sep 25 j 04:36 8°M)08'06 -5371 Oct 14 j 18:10 0ಂತಾ evening set -5376 Sep 30 j 04:30 12°Mp01'01 -5371 Dec 11 j 10:50 desc. node 0° Ω -5376 Oct 23 j 03:57 -5370 Feb 05 j 01:37 14°**£**31'31 retrograde -5370 Mar 10 j 04:46 8°Ω13'48 4°19'08 opposition conjunction -5376 Nov 27 j 18:54 28°**2**01'56 -0°40'30 greatest brilliancy -5370 Mar 11 j 14:33 7°Ω46'32 -2.4m minimum elong -5376 Nov 27 j 15:43 27°**♀**55'41 0°40'36 min. Earth dist. -5370 Mar 18 j 11:44 5°**Ω**34'01 0.45292 AU -5376 Nov 30 i 07:06 0°M direct -5370 Apr 15 j 12:07 0°Ω35'47 max. Earth dist. -5375 Jan 03 i 02:35 26°M16'33 2.38781 AU desc. node -5370 May 23 i 02:25 9°Ω10'58 -5375 Jan 07 i 23:13 0°×7 -5370 Jul 01 j 09:09 0° m -5375 Feb 03 j 01:31 19°**х** 42'31 -5370 Aug 15 j 03:34 0∘**⊽** morning rise -5375 Feb 16 j 23:47 0°궁 -5370 Sep 25 j 17:23 0°M 0°**≈** -5370 Nov 06 j 00:50 0°×7 -5375 Mar 31 j 00:58 -5375 May 14 j 15:56 0°**)**€ -5370 Dec 18 j 07:19 0°궁 $0^{\circ}\Upsilon$ -5375 Jul 01 j 16:11 -5369 Jan 31 j 02:24 0°22 28°**Y**′09'32 -5375 Aug 21 j 14:13 -5369 Mar 17 j 17:25 0°\ 10'10 asc. node evening set -5375 Aug 25 j 08:15 0°8 -5369 Mar 17 j 11:10 0°**)**€ -5375 Nov 02 j 11:03 20°**8**37'25 -5369 Apr 13 j 04:55 17°**₩** 18'23 retrograde asc. node 11°**8**29'37 $0^{\circ}\Upsilon$ opposition -5375 Dec 11 j 09:37 3°44'41 -5369 May 02 j 23:47 greatest brilliancy -5375 Dec 11 j 17:41 11°**8**21'39 -1.4m 1°**Y**49'20 0°12'44 min. Earth dist. -5375 Dec 14 j 13:41 10°**8**14'31 0.65384 AU conjunction -5369 May 05 j 20:09 direct -5374 Jan 21 j 12:20 1°**8**28'53 minimum elong -5369 May 05 j 19:40 1°**Y**48'34 0°12'43 -5374 Apr 14 j 14:44 Π °0 behind sun begin -5369 May 05 j 07:49 1°**Y**29'36 -5374 Jun 02 j 22:00 0 \circ \odot behind sun end -5369 May 06 j 07:32 2°**Y**07'31 -5374 Jul 16 j 05:07 0° Ω max. Earth dist. -5369 May 09 j 23:12 4°**Υ**27'39 2.66510 AU desc. node 24°**£**23′04 -5369 Jun 18 j 23:42 0°8 -5374 Aug 18 j 01:52 -5374 Aug 25 j 10:54 -5369 Jun 21 j 07:38 1°829'14 morning rise

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5369 Aug 04 j 20:06 Π °0 asc. node -5364 Dec 03 j 00:55 15°≈28'01 -5369 Sep 20 j 06:43 0ಂತಾ -5363 Jan 05 j 23:05 0°**₩** -5369 Nov 05 j 13:13 $0^{\circ}\Omega$ -5363 Mar 02 j 18:40 $0^{\circ}\Upsilon$ 0°m 0°8 -5369 Dec 22 j 12:33 -5363 Apr 21 j 22:50 -5368 Feb 11 j 00:44 -5363 Jun 08 j 00:04 $0^{\circ}\Pi$ 0∘ଫ -5363 Jul 14 j 01:49 24° II 15′16 desc. node -5368 Apr 09 j 05:09 23°**♀**03'30 evening set -5363 Jul 22 j 09:09 retrograde -5368 Apr 22 j 05:46 24°**△**08'29 0ಂತಾ min. Earth dist. -5368 May 21 j 16:46 19°**₽**17'23 0.37802 AU max. Earth dist. -5363 Jul 29 j 19:55 5°512'21 2.50081 AU opposition -5368 May 23 j 00:19 18°**♀**56'15 -3°17'11 -5363 Sep 02 j 09:22 $0^{\circ}\Omega$ greatest brilliancy -5368 May 22 j 18:10 19°**₽**00'22 -2.9m direct -5368 Jun 22 j 02:40 13°**♀**54'55 conjunction -5363 Sep 03 j 09:16 0°**Ω**43'47 0°54'34 -5363 Sep 03 j 11:15 -5368 Aug 16 j 03:32 0° M minimum elong 0°**Ω**47'25 0°54'49 -5368 Oct 07 j 11:33 -5363 Oct 12 j 12:40 0°**∡**¹ 0° M -5368 Nov 23 j 13:55 0°ರ morning rise -5363 Oct 29 j 03:56 12° m/44'19 -5367 Jan 09 j 03:05 0°**≈** -5363 Nov 20 j 11:07 0∘**⊽** -5367 Feb 25 j 03:18 0°**)**€ desc. node -5363 Nov 30 j 03:11 7°**£**31'37 asc. node -5367 Feb 28 j 01:03 1°**X**50'39 -5363 Dec 28 j 23:31 0°M -5367 Apr 13 j 12:45 $0^{\circ}\Upsilon$ -5362 Feb 05 j 22:48 0°**∡**7 evening set -5367 Apr 25 j 19:36 7°Y46'53 -5362 Mar 18 j 07:46 0°정 -5367 May 30 j 17:11 0°8 -5362 Apr 30 j 06:21 0°≈ max. Earth dist. -5367 Jun 01 j 18:29 1°**8**18'58 2.66107 AU -5362 Jun 16 j 23:00 0°\ -5362 Aug 21 j 10:13 $0^{\circ}\Upsilon$ conjunction -5367 Jun 11 j 19:56 7°**8**46'41 0°52'08 -5362 Sep 15 j 11:57 3°Y40'35 retrograde minimum elong -5367 Jun 11 j 18:37 7°**8**44'34 0°52'18 -5362 Oct 08 i 18:57 30°R**)**€ -5367 Jul 16 j 00:28 Π °0 asc. node -5362 Oct 21 j 03:02 25° **)** 32'40 -5367 Jul 27 j 08:51 7°**I**I28′50 -5362 Oct 23 j 11:12 24°\mathbf{\psi}36'24 0.65636 AU min. Earth dist. morning rise -5367 Aug 30 j 00:10 0ಂತಾ -5362 Oct 25 j 12:46 0°10'10 23°**)** 46'29 opposition -5367 Oct 12 j 14:26 $0^{\circ}\Omega$ greatest brilliancy -5362 Oct 25 j 12:26 23° ¥ 46'49 -1 4m -5367 Nov 24 j 00:25 0° m -5362 Dec 04 j 00:49 14°**)** 18'47 direct -5366 Jan 04 j 16:37 $0^{\circ}\Upsilon$ 0∘∙თ -5361 Feb 01 j 04:46 0° 8 0°M -5361 Mar 31 j 01:31 -5366 Feb 15 j 11:36 -5361 May 19 j 05:50 $0^{\circ}\Pi$ -5366 Feb 25 j 06:02 6°M52'41 desc. node -5366 Mar 31 j 11:04 0°**∡** -5361 Jul 03 j 05:31 0ಂತಾ -5366 May 26 j 12:05 0°궁 -5361 Aug 14 j 05:18 0 $^{\circ}$ Ω -5366 Jun 26 j 20:51 6°る18'49 -5361 Sep 02 j 14:27 retrograde evening set 14°**Ω**25'37 -5361 Sep 23 j 01:41 min. Earth dist. -5366 Jul 25 j 03:35 0°る52'09 0.46632 AU 0° m -5366 Jul 27 j 16:23 30°₽**⋌**7 max. Earth dist. -5361 Oct 09 j 18:06 12° m 53'47 2.38464 AU greatest brilliancy -5366 Jul 31 j 15:43 28°**х** 36′21 -2.3m desc. node -5361 Oct 17 j 22:40 19° m 16'43 -5366 Aug 02 j 05:47 28°**₹**02'56 -6°01'14 -5361 Oct 31 j 15:18 0∘**⊽** opposition direct -5366 Sep 04 j 02:15 21°**х** 20′00 -5366 Oct 14 j 04:14 0°ರ conjunction -5361 Nov 01 j 14:50 0°**2**46'11 -0°10'47 -5366 Dec 14 j 06:29 -5361 Nov 01 j 13:54 0°**2**44'20 0°10'45 0°≈ minimum elong -5365 Jan 15 j 23:56 18°≈49'02 -5361 Oct 31 j 17:12 0° 203'44 asc. node behind sun begin -5365 Feb 03 j 20:36 0°**)**€ -5361 Nov 02 j 10:36 1°**£**24'57 behind sun end -5365 Mar 25 j 06:54 $0^{\circ}\Upsilon$ -5361 Dec 08 j 19:40 0°M 0°8 23°M03'59 -5365 May 12 j 07:14 morning rise -5360 Jan 07 i 11:26 evening set -5365 Jun 03 j 10:38 14°**8**10'57 -5360 Jan 16 j 12:12 0°×7 max. Earth dist. -5365 Jun 27 j 10:52 29°851'59 2.60434 AU -5360 Feb 25 i 12:51 0°정 -5365 Jun 27 j 15:43 $\mathbb{I}^{\circ 0}$ -5360 Apr 07 j 15:28 0°≈ -5360 May 22 j 14:31 0°\ -5365 Jul 20 j 21:39 15°**Ⅲ**31'59 1°11'17 -5360 Jul 10 i 21:53 conjunction -5365 Jul 20 j 21:23 15°**Ⅲ**31'32 1°11'34 -5360 Sep 07 j 05:13 28°Y34'25 minimum elong asc. node 0ಂತಾ -5360 Sep 11 j 02:57 0°8 -5365 Aug 11 j 01:43 -5365 Sep 06 j 19:56 morning rise 18°9544'45 -5360 Oct 19 j 08:47 7°835'28 retrograde -5365 Sep 22 j 13:20 $0^{\circ}\Omega$ -5360 Nov 23 j 04:22 30°R℃ -5365 Nov 02 j 09:55 0° m opposition -5360 Nov 27 j 19:33 28°Y10'10 2°52'05 28° Y07'37-5365 Dec 12 j 03:55 0∘∇ greatest brilliancy -5360 Nov 27 j 22:07 -1.3m -5364 Jan 13 j 06:02 24°**£**28'27 -5360 Nov 29 j 12:02 27°**Y**29'49 0.66687 AU desc. node min. Earth dist. -5364 Jan 20 j 12:08 0°M -5359 Jan 07 j 17:55 18°Y12'59 direct 0° ×7 -5359 Feb 26 j 04:18 0°8 -5364 Feb 29 j 09:44 0°る $0^{\circ}\Pi$ -5364 Apr 11 j 07:24 -5359 Apr 25 j 09:17 -5364 May 28 j 10:56 0°≈ -5359 Jun 11 j 14:02 0 \circ \odot retrograde -5364 Aug 09 j 20:03 25°≈53'53 -5359 Jul 24 j 06:10 0° Ω min. Earth dist. -5364 Sep 12 j 12:33 18°**≈**19'46 0.58502 AU -5359 Sep 02 j 06:18 0° m opposition -5364 Sep 18 j 05:09 16°≈05'02 -3°02'13 desc. node -5359 Sep 03 j 19:23 1°Mp11'12 -5364 Sep 17 j 15:34 -5359 Oct 10 j 19:40 0∘**ত** greatest brilliancy 16°**≈**18′26 -1.7m

-5359 Nov 05 j 08:50

evening set

20°**2**05'45

-5364 Oct 24 j 23:52

7°≈36'59

direct

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5354 Aug 12 j 05:42 -5359 Nov 17 j 23:38 0°M $0^{\circ}II$ -5359 Dec 26 j 17:10 -5354 Sep 28 j 17:48 0ಂತಾ 0°×7 -5354 Nov 16 j 05:50 $0^{\circ}\Omega$ 10°**х** 10'39 -1°07'14 -5353 Jan 07 j 17:18 0° m -5358 Jan 09 j 03:10 conjunction -5353 Mar 22 j 10:13 24° Mp 09'44 -5358 Jan 09 j 01:52 10°**₹**08'13 1°07'31 minimum elong retrograde -5358 Feb 04 j 19:36 -5353 Apr 22 j 05:20 $0^{\circ}21'00$ 0°궁 opposition 18° Mp 59'45 max. Earth dist. 2.46308 AU 18° My 58'25-5358 Feb 25 j 00:54 14°**る**37'03 greatest brilliancy -5353 Apr 22 j 07:15 -2.9m morning rise -5358 Mar 12 j 11:51 25°る32'58 min. Earth dist. -5353 Apr 26 j 05:17 17° **m** 53'54 0.38887 AU -5358 Mar 18 j 20:56 0°≈ desc. node -5353 Apr 26 j 21:01 17° m 43'15 -5358 May 02 j 05:22 0°\ direct -5353 May 23 j 23:57 13° m/21'51 $0^{\circ}\Upsilon$ -5358 Jun 18 j 02:25 -5353 Jul 18 j 00:46 0°Ω 22°**Y**59'26 -5353 Sep 06 j 01:57 asc. node -5358 Jul 26 j 04:52 0°M -5353 Oct 20 j 21:26 -5358 Aug 07 j 08:59 0° 8 0°**∡**7 -5358 Oct 05 j 16:24 $0^{\circ}\Pi$ -5353 Dec 04 j 05:10 0°ರ retrograde -5358 Nov 26 j 08:13 12°**Ⅲ**34'58 -5352 Jan 18 j 07:45 0°≈ opposition -5357 Jan 03 j 03:37 4°**Ⅲ**02'07 4°51'31 -5352 Mar 04 j 12:29 0°**)**€ greatest brilliancy -5357 Jan 03 j 23:38 3°**Ⅱ**42'50 -1.5m asc. node -5352 Mar 16 j 17:00 7°**)**(49'09 min. Earth dist. -5357 Jan 08 j 14:16 1°**Ц**56'26 0.61434 AU evening set -5352 Apr 10 j 16:48 23°\ 46'23 -5357 Jan 13 j 20:11 30°R₩ -5352 Apr 20 j 11:34 $0^{\circ}\Upsilon$ direct -5357 Feb 13 j 00:43 24°808'38 max. Earth dist. -5352 May 23 j 15:55 21°Υ08'02 2.66916 AU -5357 Mar 17 j 10:02 $\mathbb{I}^{\circ 0}$ -5357 May 17 j 08:25 0ಂತಾ conjunction -5352 May 28 i 05:18 24°**Y**′02'39 0°38'36 -5357 Jul 01 j 21:47 $0^{\circ}\Omega$ -5352 May 28 i 04:06 24°**Υ**00'44 0°38'42 minimum elong desc. node -5357 Jul 22 j 18:17 14°Ω57'54 -5352 Jun 06 i 12:45 0°8 -5357 Aug 11 j 23:39 0° m -5352 Jul 12 j 18:21 23°821'04 morning rise -5357 Sep 20 j 02:15 0∘**⊽** -5352 Jul 22 j 23:31 $\Pi^{\circ}0$ -5357 Oct 28 j 16:09 0°M -5352 Sep 06 j 09:46 0ಂತಾ -5357 Dec 06 j 19:31 0°×7 -5352 Oct 20 j 18:41 $0^{\circ}\Omega$ 25°**х** 05′00 -5352 Dec 03 j 08:16 -5356 Jan 09 j 13:45 O° m evening set 0°정 -5351 Jan 15 j 16:21 -5356 Jan 16 j 08:01 0∘Ω -5351 Mar 01 j 06:21 -5356 Feb 27 j 17:48 0°M 0°≈ -5351 Mar 14 j 00:22 8°ML05'57 desc. node -5356 Mar 06 j 17:16 5°≈29'09 -0°50'52 -5351 Apr 22 j 15:17 0°**∡**7 conjunction 11°**∡**05'44 -5356 Mar 06 j 19:14 -5351 Jun 04 j 14:41 minimum elong 5°≈32'31 0°51'07 retrograde -5356 Apr 03 j 15:16 -5351 Jul 01 j 08:09 max. Earth dist. 24°≈20'03 2.58082 AU min. Earth dist. 6°**≯**25'52 0.41860 AU -5356 Apr 12 j 04:16 0°**)**€ -5351 Jul 07 j 04:20 greatest brilliancy 4°**∡**⁷36'42 -2.6m 4°**∡**07'15 -6°15'29 morning rise -5356 Apr 28 j 15:58 10°**)** 49′10 opposition -5351 Jul 08 j 17:48 -5356 May 28 j 10:26 $0^{\circ}\Upsilon$ -5351 Jul 23 j 19:34 30°RML -5356 Jun 12 j 01:34 9°Y16'46 direct -5351 Aug 08 j 20:33 28°M18'26 asc. node -5356 Jul 15 j 06:10 0° 8 -5351 Aug 25 j 07:32 0°**⊼** -5356 Sep 02 j 23:12 $0^{\circ}II$ -5351 Nov 03 j 18:01 0°정 -5356 Oct 27 j 07:07 0ಂತಾ -5351 Dec 25 j 02:40 0°≈ -5355 Jan 12 j 04:58 24°9526'04 -5350 Feb 01 j 14:01 23°≈27'17 retrograde asc. node -5355 Feb 16 j 01:08 17°520'57 5°14'57 -5350 Feb 12 j 05:26 opposition 0°\ -5355 Feb 17 j 14:55 -5350 Apr 01 j 15:24 $0^{\circ}\Upsilon$ greatest brilliancy 16°9547'58 -2.1m min. Earth dist. -5355 Feb 24 i 10:23 14°526'20 0.50420 AU -5350 May 19 i 08:56 0°804'54 evening set direct -5355 Mar 26 j 10:30 8°9540'39 -5350 May 19 j 05:51 0°8 -5355 May 29 j 16:09 $0^{\circ}\Omega$ max. Earth dist. -5350 Jun 16 j 23:40 18°**8**30'33 2.63262 AU desc. node -5355 Jun 08 j 18:12 5°**Ω**49'42 -5350 Jul 04 j 12:43 $0^{\circ}II$ -5355 Jul 15 j 20:14 0°m -5355 Aug 26 j 08:47 0∘**⊽** -5350 Jul 05 i 07:50 0°II31'32 1°07'07 conjunction -5355 Oct 05 j 10:33 0°M -5350 Jul 05 i 06:55 0°Д30'02 1°07'23 minimum elong -5355 Nov 14 j 18:15 0°×7 -5350 Aug 18 j 02:43 0ಂತಾ 0°る -5355 Dec 26 j 07:01 morning rise -5350 Aug 20 j 19:34 1°951'27 -5354 Feb 07 j 12:37 -5350 Sep 29 j 22:52 0°& $0^{\circ}\Omega$ -5354 Feb 28 j 16:50 14°≈15'28 -5350 Nov 10 j 07:01 0° m evening set -5354 Mar 24 j 12:13 0°) -5350 Dec 20 j 14:29 0∘**⊽** -5349 Jan 29 j 23:36 0°M18'34 desc. node -5354 Apr 20 j 09:02 17°**¥**28'31 -0°05'27 -5349 Jan 29 j 13:41 O°M. conjunction -5354 Apr 20 j 09:15 17° ****28'52 -5349 Mar 11 j 07:08 0°**∡**7 minimum elong 0°05'32 0°る behind sun begin -5354 Apr 19 j 14:01 16°**)** 57'49 -5349 Apr 23 j 21:39 -5354 Apr 21 j 04:29 17°**)** 59'54 -5349 Jun 17 j 13:18 0°≈ behind sun end asc. node -5354 Apr 29 j 21:42 23°**H**36'58 retrograde -5349 Jul 25 j 19:39 8°≈46'58 max. Earth dist. -5354 Apr 30 j 11:09 23°**₭**58'35 2.65190 AU min. Earth dist. -5349 Aug 26 j 11:10 1°≈59'02 0.54216 AU -5354 May 09 j 20:24 $0^{\circ}\Upsilon$ -5349 Aug 31 j 15:27 30°Ŗる -5354 Jun 07 j 00:01 17° Y 58'09 greatest brilliancy -5349 Sep 01 j 10:20 29°る41'49 -1.9m morning rise -5354 Jun 25 j 22:17 0°8 -5349 Sep 02 j 09:58 29°る19'08 -4°20'12 opposition

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 6 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -5399	in astronomical co	unting style is the year	5400 BCE in historical c	ounting style.	
direct	-5349 Oct 07 j 18:08	21° る 25'58			-5343 Jan 03 j 04:53	0° ∡ 7	
	-5349 Nov 17 j 09:35	0° ≈		max. Earth dist.	-5343 Jan 28 j 23:49	19° ∡ °28'59	2.41189 AU
asc. node	-5349 Dec 20 j 14:53	14° ≈ 36′05			-5343 Feb 12 j 05:14	ರ°ರ	
	-5348 Jan 19 j 00:58	0°) €		morning rise	-5343 Feb 17 j 09:59	3° ⋜ 47'56	
	-5348 Mar 11 j 06:54	0 ° Υ			-5343 Mar 26 j 05:08	0° ≈	
	-5348 Apr 29 j 09:04	9° 8			-5343 May 09 j 15:51	0°)	
	-5348 Jun 15 j 01:54	Π °0			-5343 Jun 26 j 02:31	0° Y	
evening set	-5348 Jun 27 j 05:37	8° ∏ 04'04		asc. node	-5343 Aug 11 j 20:18	26° Y ′57′23	
max. Earth dist.	-5348 Jul 15 j 07:08		2.54593 AU		-5343 Aug 17 j 13:31	0° 8	
	-5348 Jul 29 j 10:18	0		retrograde	-5343 Nov 10 j 20:12	28° 8 42'19	
				opposition	-5343 Dec 19 j 10:40	19° 8 45'37	
conjunction	-5348 Aug 15 j 12:27	11°959'11		greatest brilliancy	-5343 Dec 19 j 22:38	19° 8 33'54	
minimum elong	-5348 Aug 15 j 13:37	12°501'16	1°06'50	min. Earth dist.	-5343 Dec 23 j 10:26		0.64246 AU
	-5348 Sep 09 j 14:04	0°N		direct	-5342 Jan 29 j 13:34	9° 8 45'22	
morning rise	-5348 Oct 06 j 09:40	19° Ω 48'18			-5342 Apr 06 j 08:02	0°II	
	-5348 Oct 19 j 22:53	0° m)			-5342 May 27 j 22:30	0° ⊙	
	-5348 Nov 28 j 03:30	0° ⊡		1 1	-5342 Jul 10 j 20:49	0°N	
desc. node	-5348 Dec 16 j 20:55	14° Ω 29'30		desc. node	-5342 Aug 08 j 11:14	21° Ω 00'49	
	-5347 Jan 05 j 21:48	0° M 0° <i>≯</i> 7			-5342 Aug 20 j 08:27	0 ்⊽ 0°™	
	-5347 Feb 14 j 02:53 -5347 Mar 26 j 20:16	0°る			-5342 Sep 28 j 03:37 -5342 Nov 05 j 11:56	0°M	
	-5347 May 09 j 14:48	0°≈			-5342 Nov 03 j 11:30	0° ⊼ ¹	
	-5347 May 09 j 14.48	0 ≈ 0° ∺		evening set	-5342 Dec 14 j 09.34 -5342 Dec 16 j 16:53	0 x . 1° x 744'18	
retrograde	-5347 Juli 29 j 11.08 -5347 Sep 01 j 17:52	0 X 19° ¥ 55'29		evening set	-5341 Jan 23 j 17:02	1 x・44 18	
min. Earth dist.	-5347 Sep 01 j 17.32 -5347 Oct 08 j 04:25		0.63532 AU		-5541 Jan 25 J 17.02	0.0	
opposition	-5347 Oct 08 j 04:23	9° H 57'54		conjunction	-5341 Feb 15 j 06:05	16° る 12'23	1003120
greatest brilliancy	-5347 Oct 11 j 14:08	10° X 00'40		minimum elong	-5341 Feb 15 j 07:47	16°පි15'24	
asc. node	-5347 Nov 06 j 17:31	1° X 51'21	-1.5111	minimum clong	-5341 Mar 06 j 22:04	0°≈	1 03 47
direct	-5347 Nov 19 j 07:11	0°) 49'32		max. Earth dist.	-5341 Mar 23 j 02:15		2.53945 AU
ancer	-5346 Feb 14 j 08:28	0°Υ		morning rise	-5341 Apr 12 j 10:26	24° ≈ 48'54	2.557 15 110
	-5346 Apr 08 j 18:53	0°8			-5341 Apr 20 j 05:56	0° ∀	
	-5346 May 26 j 21:17	0°II			-5341 Jun 05 j 14:49	0° Υ	
	-5346 Jul 10 j 13:25	0 \circ \odot		asc. node	-5341 Jun 29 j 18:24	15° Y ′07'51	
evening set	-5346 Aug 12 j 09:46	23° © 20'16			-5341 Jul 24 j 01:30	0° ႘	
C	-5346 Aug 21 j 12:36	$0^{\circ}\Omega$			-5341 Sep 13 j 18:26	0°II	
max. Earth dist.	-5346 Aug 30 j 17:57	6° Ω 48'57	2.42512 AU		-5341 Nov 17 j 00:03	0ಂಣ	
	-5346 Sep 30 j 10:55	0° m		retrograde	-5341 Dec 23 j 16:43	6°956'09	
					-5340 Jan 26 j 15:59	30°R Ⅱ	
conjunction	-5346 Oct 07 j 12:22	5° m 25'22	0°19'34	opposition	-5340 Jan 28 j 21:57	29° Ⅱ 10'51	5°25'12
minimum elong	-5346 Oct 07 j 13:47	5° Mp 28′06	0°19'42	greatest brilliancy	-5340 Jan 30 j 06:57	28° Ⅱ 40'30	-1.8m
desc. node	-5346 Nov 03 j 17:40	26°M 33'50		min. Earth dist.	-5340 Feb 05 j 10:13	26° Ⅲ 25'47	0.55318 AU
	-5346 Nov 08 j 03:06	0∘ ⊽		direct	-5340 Mar 08 j 16:58	19° Ⅱ 48'59	
morning rise	-5346 Dec 09 j 19:18	24° ≏ 50'21			-5340 Apr 20 j 11:58	0 \circ 50	
	-5346 Dec 16 j 09:30	0° M			-5340 Jun 13 j 16:16	$0^{\circ}\Omega$	
	-5345 Jan 24 j 03:12	0° ∡		desc. node	-5340 Jun 25 j 12:16	7° Ω 50'49	
	-5345 Mar 05 j 05:03	0°ප			-5340 Jul 26 j 22:27	0° ™	
	-5345 Apr 16 j 11:34	0° ≈			-5340 Sep 05 j 01:07	0∘ ত	
	-5345 Jun 01 j 01:02	0° ∀			-5340 Oct 14 j 07:00	0° M -	
	-5345 Jul 22 j 17:28	0°Υ			-5340 Nov 22 j 23:31	0° ∡ ¹	
asc. node	-5345 Sep 24 j 19:45	23°Y50'26			-5339 Jan 02 j 23:46	0°る	
retrograde	-5345 Oct 06 j 17:15	24° Y 42'19		evening set	-5339 Feb 10 j 07:51	26° る 55'22	
opposition	-5345 Nov 15 j 12:47	15° ℃ 02'57	1°53'28		-5339 Feb 14 j 19:22	0° ≈	
greatest brilliancy	-5345 Nov 15 j 12:07	15° Υ 03'38	-1.4m		-5339 Mar 31 j 12:03	0° ∀	
min. Earth dist.	-5345 Nov 15 j 17:55	14° Y 57'49	0.67024 AU		5220 4 04:01.50	201/21110	0022152
direct	-5345 Dec 26 j 01:45	5° Υ 14'05		conjunction	-5339 Apr 04 j 01:58	2° ∺ 21'18	
	-5344 Mar 12 j 21:17	0° Β		minimum elong	-5339 Apr 04 j 03:00	2°) €23'00	
	-5344 May 04 j 15:14	0°© ∏		max. Earth dist. asc. node	-5339 Apr 20 j 16:02	13° 光 11′22 29° 光 53′48	2.63037 AU
	-5344 Jun 19 j 15:53	0₀V ೧ೄಾ		asc. node	-5339 May 16 j 13:46	29° ℋ 53'48 0° Ƴ	
	-5344 Jul 31 j 23:24			morning rise	-5339 May 16 j 17:38	4° Υ 13'05	
desc. node	-5344 Sep 09 j 20:56 -5344 Sep 20 j 13:32	0° т р 8° т р 15'03		morning rise	-5339 May 23 j 07:56 -5339 Jul 02 j 23:43	0° 8	
evening set	-5344 Sep 20 j 15:32	23°Mp07'02			-5339 Jul 02 j 23:43	0°I	
evening set	-5344 Oct 09 j 13.06 -5344 Oct 18 j 09:36	0° ي 0° ي			-5339 Aug 19 J 22.40 -5339 Oct 08 j 01:05	0°©	
	-5344 Nov 25 j 12:52	0° m			-5339 Oct 08 j 01:03	0° U	
	231107 23 j 12.32	V IIV		retrograde	-5338 Feb 20 j 07:47	27° Ω 53'57	
conjunction	-5344 Dec 13 j 09:23	13°M56'41	-0°53'50	opposition	-5338 Mar 24 j 11:27	22°Ω03'20	3°16'22
minimum elong	-5344 Dec 13 j 06:08	13°M50'21		greatest brilliancy	-5338 Mar 25 j 12:21	21° Ω 44'15	-2.6m
				<i>5</i>	J 12.21		

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5338 Mar 31 j 21:14 19° Ω 47'41 0.42633 AU min. Earth dist. conjunction -5333 Jul 30 j 06:15 25°**Д**02'43 1°11'19 direct -5338 Apr 28 j 07:00 15°**Ω**07'41 minimum elong -5333 Jul 30 j 06:28 25°**Д**03'06 1°11'37

direct	-3338 Apr 28 J 07.00	13 860/41		minimum erong	-3333 Jul 30 J 00.28	23 Д03 00	1 11 37
desc. node	-5338 May 13 j 13:54	16° Ω 42'38			-5333 Aug 06 j 10:45	0	
	-5338 Jun 18 j 07:32	0° m		morning rise	-5333 Sep 17 j 07:58	29° © 38'34	
	-5338 Aug 06 j 22:29	0∘ ⊽			-5333 Sep 17 j 19:49	$\mathfrak{O}^{\circ} \mathfrak{O}$	
	-5338 Sep 19 j 01:30	0° M			-5333 Oct 28 j 12:13	0° m ⊅	
	-5338 Oct 31 j 04:39	0° ∡ ¹			-5333 Dec 07 j 01:11	0∘ ⊽	
	-5338 Dec 12 j 23:48	5°0		desc. node	-5332 Jan 03 j 15:33	21° ≏ 10'29	
	-5337 Jan 26 j 03:14	0° ≈		dese. node	-5332 Jan 15 j 03:49	0°M	
	·				·		
	-5337 Mar 12 j 17:26	0° ∀			-5332 Feb 23 j 17:47	0° ∡ ¹	
evening set	-5337 Mar 27 j 00:58	9°) 15′43			-5332 Apr 05 j 01:26	0°ප	
asc. node	-5337 Apr 03 j 09:29	13° ¥ 59'53			-5332 May 20 j 09:57	0° ≈	
	-5337 Apr 28 j 08:44	0° Υ			-5332 Jul 19 j 20:14	0° ℋ	
				retrograde	-5332 Aug 18 j 09:55	5°) 15′33	
conjunction	-5337 May 14 j 11:25	10° Ƴ 17'07	0°22'45	•	-5332 Sep 15 j 01:38	30° ₽ ≈	
minimum elong	-5337 May 14 j 10:36	10° Y 15'49	0°22'47	min. Earth dist.	-5332 Sep 22 j 03:13		0.60521 AU
max. Earth dist.	-5337 May 15 j 10:38		2.66888 AU	opposition	-5332 Sep 27 j 02:05	25°≈21'08	
max. Earth dist.			2.00000 AU		1 0		
	-5337 Jun 14 j 08:40	0°8		greatest brilliancy	-5332 Sep 26 j 17:13	25°≈29'56	-1.6m
morning rise	-5337 Jun 29 j 11:54	9° 8 41'16		direct	-5332 Nov 03 j 13:59	16° ≈ 37'05	
	-5337 Jul 31 j 01:04	Π $\circ 0$		asc. node	-5332 Nov 23 j 07:46	18° ≈ 51′28	
	-5337 Sep 15 j 01:39	0 \circ \odot			-5332 Dec 27 j 00:19	0° ∀	
	-5337 Oct 30 j 12:35	$0^{\circ}\Omega$			-5331 Feb 24 j 17:48	$0^{\circ}\mathbf{\Upsilon}$	
	-5337 Dec 14 j 21:28	0° m)			-5331 Apr 16 j 20:40	0°8	
	-5336 Jan 30 j 11:39	0∘ ⊽			-5331 Jun 03 j 06:12	0°II	
	·	0°M			·	0°©	
	-5336 Mar 24 j 04:59				-5331 Jul 17 j 17:49		
desc. node	-5336 Mar 30 j 16:02	2°M49'19		evening set	-5331 Jul 24 j 06:12	4° © 32'51	
retrograde	-5336 May 09 j 00:33	11° M 57'42		max. Earth dist.	-5331 Aug 08 j 12:48	15° © 21'50	2.47379 AU
min. Earth dist.	-5336 Jun 05 j 14:54	7°M27'53	0.38545 AU		-5331 Aug 28 j 17:54	$0 { m ^o} \Omega$	
opposition	-5336 Jun 09 j 19:40	6° ™ 17'34	-4°55'21				
greatest brilliancy	-5336 Jun 09 j 00:00	6°MJ31'18	-2.9m	conjunction	-5331 Sep 15 j 01:35	12° Ω 49'19	0°44'05
direct	-5336 Jul 09 j 18:48	1°M10'25		minimum elong	-5331 Sep 15 j 03:45	12° £ 53′21	
uncet	-5336 Sep 27 j 16:48	0° ₹		minimum crong	-5331 Oct 07 j 19:24	0°m)	0 1117
	-5336 Nov 16 j 18:31	0°ರ		morning rise	-5331 Nov 12 j 11:13	27° m/31'36	
	-5335 Jan 03 j 12:18	0° ≈			-5331 Nov 15 j 15:25	0∘ ত	
asc. node	-5335 Feb 18 j 06:32	28° ≈ 50'34		desc. node	-5331 Nov 20 j 11:49	3° ≏ 46'58	
	-5335 Feb 20 j 02:41	0° ∀			-5331 Dec 24 j 01:21	0° M .	
	-5335 Apr 08 j 19:16	0° Y			-5330 Jan 31 j 21:55	0° ⊼ ¹	
evening set	-5335 May 04 j 10:09	16° Ƴ 11'19			-5330 Mar 13 j 03:05	0°ප	
C	-5335 May 26 j 02:48	0°8			-5330 Apr 24 j 17:24	0° ≈	
max. Earth dist.	-5335 Jun 07 j 08:07		2.65317 AU		-5330 Jun 10 j 08:07	0°) €	
max. Lartii dist.	-5555 Juli 07 J 00.07	7 03028	2.03317 AU			0° Υ	
	5005 X 00:05 01	1.00 11.000	0050120		-5330 Aug 06 j 06:11		
conjunction	-5335 Jun 20 j 07:21	16° 8 13'06		retrograde	-5330 Sep 23 j 05:58	11° Y 42'17	
minimum elong	-5335 Jun 20 j 06:06	16° 8 11'03	0°58'52	asc. node	-5330 Oct 11 j 10:13	9° Y 28′23	
	-5335 Jul 11 j 09:53	Π $\circ 0$		min. Earth dist.	-5330 Oct 31 j 23:58	2° Y 22'54	0.66405 AU
morning rise	-5335 Aug 05 j 00:43	16° Ⅱ 20′25		opposition	-5330 Nov 02 j 06:18	1° Ƴ 52'24	0°49'33
	-5335 Aug 25 j 06:06	0 \circ \odot		greatest brilliancy	-5330 Nov 02 j 04:58	1° Y 53'44	-1.4m
	-5335 Oct 07 j 13:38	$0^{\circ}\Omega$			-5330 Nov 06 j 23:09	30° ₹ ₩	
	-5335 Nov 18 j 13:16	0° mp		direct	-5330 Dec 12 j 04:52	22°) 16′03	
	-5335 Dec 29 j 15:30	0∘ ⊽		ancet	-5329 Jan 20 j 09:12	0° Υ	
	3				,		
, ,	-5334 Feb 08 j 14:01	0°M			-5329 Mar 24 j 20:39	0° B	
desc. node	-5334 Feb 15 j 17:29	5° M ₁0′59			-5329 May 14 j 01:29	Π $^{\circ}$ 0	
	-5334 Mar 22 j 20:33	0° ⊼			-5329 Jun 28 j 09:25	0 \circ \odot	
	-5334 May 09 j 18:40	0°ප			-5329 Aug 09 j 12:12	$0 { m ^o} \Omega$	
retrograde	-5334 Jul 08 j 00:51	19° る 14'39		evening set	-5329 Sep 15 j 14:27	27° Ω 52'17	
min. Earth dist.	-5334 Aug 06 j 12:22	13° る 18'22	0.49392 AU	•	-5329 Sep 18 j 09:01	0° m)	
greatest brilliancy	-5334 Aug 12 j 23:20	10° ප 57'20	-2.2m	desc. node	-5329 Oct 08 j 09:04	15° m 29'04	
		10°පි26'16		dese. Hode		0° ರ	
opposition	-5334 Aug 14 j 09:19		-5 50 55		-5329 Oct 26 j 22:01	v ==	
direct	-5334 Sep 17 j 03:05	3°る16'00					
	-5334 Dec 06 j 01:07	0° ≈		conjunction	-5329 Nov 16 j 18:29	16° ≏ 24'33	
asc. node	-5333 Jan 06 j 05:57	16° ≈ 56'42		minimum elong	-5329 Nov 16 j 16:03	16° ≏ 19'46	0°28'15
	-5333 Jan 28 j 23:38	0° ∀		max. Earth dist.	-5329 Nov 26 j 20:31	24° ≏ 20'34	2.37718 AU
	-5333 Mar 20 j 05:17	$0^{\circ}\mathbf{\Upsilon}$			-5329 Dec 04 j 01:27	0° M ₊	
	-5333 May 07 j 13:48	0°8			-5328 Jan 11 j 16:53	0° ∡ 7	
evening set	-5333 Jun 12 j 07:25	22° 8 57'03		morning rise	-5328 Jan 23 j 08:33	8° ∡ 52′27	
croming set	·	0° Ⅱ			-5328 Feb 20 j 16:17	0°る	
	-5333 Jun 23 j 01:11		2 50522 411		·		
max. Earth dist.	-5333 Jul 03 j 23:03	/ ⁻ Ц 14′34	2.58533 AU		-5328 Apr 02 j 16:31	0° ≈	
					-5328 May 17 j 08:44	0° ∀	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5323 Aug 19 j 17:55 -5328 Jul 04 j 18:03 $0^{\circ}\Upsilon$ 0∘**⊽** -5328 Aug 28 j 11:03 29°**Y**05'45 -5323 Sep 29 j 12:58 0°M asc. node -5328 Aug 30 j 11:02 0°8 -5323 Nov 09 j 07:47 0°×7 -5328 Oct 27 j 08:53 15°**8**28'37 0°궁 -5323 Dec 21 j 04:35 retrograde -5322 Feb 02 j 16:10 -5328 Dec 05 j 14:00 opposition 6°**8**12'30 3°23'17 0°≈ greatest brilliancy -5328 Dec 05 j 19:22 6°**8**07'11 -1.4m evening set -5322 Mar 10 j 13:55 23°≈56'29 min. Earth dist. -5328 Dec 08 j 02:04 5°**8**12'57 0.66098 AU -5322 Mar 19 j 19:38 0°**)** 20°¥17'19 -5328 Dec 22 j 12:20 30°R℃ asc. node -5322 Apr 20 j 02:31 26°Y12'50 direct -5327 Jan 15 j 16:04 -5327 Feb 10 j 19:42 0°8 conjunction -5322 Apr 29 j 08:04 26°**₩**13'21 0°05'16 -5327 Apr 18 j 18:06 $0^{\circ}\Pi$ minimum elong -5322 Apr 29 j 07:50 26°**升**12'59 0°05'13 -5322 Apr 28 j 12:47 -5327 Jun 06 j 02:59 0ಂತಾ behind sun begin 25°\ 42'25 -5322 Apr 30 j 02:54 -5327 Jul 19 j 04:44 $0^{\circ}\Omega$ behind sun end 26°**)** 43'32 desc. node -5327 Aug 25 j 06:08 27°**Ω**37'27 -5322 May 05 j 05:27 $0^{\circ}\Upsilon$ -5327 Aug 28 j 08:45 0° m max. Earth dist. -5322 May 06 j 00:31 0° **Y**30'322.66022 AU -5327 Oct 05 j 23:57 0∘**⊽** morning rise -5322 Jun 15 j 06:33 26°**Y**11'49 -5327 Nov 13 j 05:01 0°M -5322 Jun 21 j 05:51 0°8 evening set -5327 Nov 20 j 13:02 5°M43'53 -5322 Aug 07 j 06:41 $0^{\circ}\Pi$ -5327 Dec 21 j 23:13 0°×7 -5322 Sep 23 j 03:35 0ಂತಾ -5322 Nov 09 j 06:19 $0^{\circ}\Omega$ conjunction -5326 Jan 23 j 06:05 24°**∡**14'42 -1°08'53 -5322 Dec 28 j 00:11 0° m minimum elong -5326 Jan 23 i 06:11 24° **₹**14'53 1°09'11 -5321 Feb 22 i 18:15 0∘**⊽** -5326 Jan 31 i 02:05 0°궁 -5321 Apr 09 j 11:13 11°**♀**07'13 retrograde max. Earth dist. -5326 Mar 07 j 22:08 25°る39'32 2.49119 AU -5321 Apr 17 j 08:34 10°**-**43′16 desc. node -5326 Mar 14 j 03:22 0°≈ -5321 May 09 j 22:02 6° 203'33 -1°43'51 opposition -5326 Mar 24 j 08:52 7°≈04'15 -5321 May 09 j 22:30 6°**£**03'15 -3.0m greatest brilliancy morning rise -5326 Apr 27 j 09:57 0°**₩** -5321 May 11 j 02:50 5°**2**44'22 0.37906 AU min. Earth dist. -5326 Jun 13 j 00:29 $0^{\circ}\Upsilon$ -5321 Jun 09 j 12:46 0°**£**53'17 direct 20°Y30'07 -5326 Jul 16 j 09:32 -5321 Aug 26 j 18:14 oom. asc node -5326 Aug 01 j 10:14 0° 8 -5321 Oct 13 j 14:59 0°×7 -5321 Nov 28 j 05:43 -5326 Sep 25 j 17:06 $0^{\circ}II$ 0°궁 -5326 Dec 05 j 18:13 21°**Ⅲ**21'25 -5320 Jan 13 j 01:05 0°≈ retrograde -5325 Jan 12 j 02:00 13°**Ⅲ**03'47 5°08'37 -5320 Feb 28 j 15:17 0°)(opposition -5325 Jan 13 j 02:51 -5320 Mar 06 j 22:11 greatest brilliancy 12°**I**I40′10 -1.6m asc. node 4°\ 38'58 -5325 Jan 18 j 07:39 -5320 Apr 15 j 19:30 $0^{\circ}\Upsilon$ min. Earth dist. 10°**I**I41'57 0.59490 AU -5325 Feb 21 j 17:05 3°**Ⅱ**18′08 2°Y17'41 direct evening set -5320 Apr 19 j 10:17 27°**Y**30′55 -5325 May 09 j 11:05 0ಂತಾ max. Earth dist. -5320 May 29 j 01:24 2.66569 AU -5325 Jun 25 j 19:01 $0^{\circ}\Omega$ -5320 Jun 01 j 22:35 0°8 desc. node -5325 Jul 13 j 04:30 12°**Ω**13'32 -5325 Aug 06 j 10:54 0° m conjunction -5320 Jun 05 j 14:49 2°**8**21'19 0°46'47 -5325 Sep 14 j 20:17 0∘**⊽** -5320 Jun 05 j 13:30 2°819'14 0°46'54 minimum elong -5325 Oct 23 j 14:44 0°M -5320 Jul 18 j 07:42 $0^{\circ}\Pi$ -5325 Dec 01 j 21:35 0°×7 -5320 Jul 21 j 02:21 1°**Ⅱ**49'09 morning rise 0°る -5320 Sep 01 j 12:24 0ಂತಾ -5324 Jan 11 j 13:00 -5324 Jan 22 j 00:27 7°る31'33 -5320 Oct 15 j 10:54 evening set $0^{\circ}\Omega$ -5324 Feb 23 j 01:03 0°≈ -5320 Nov 27 i 08:19 0° m -5319 Jan 08 i 15:44 0∘**⊽** -5324 Mar 17 j 11:09 15°≈57'29 -0°41'40 -5319 Feb 20 i 09:12 0°M conjunction minimum elong -5324 Mar 17 j 12:53 16°≈00'25 0°41'51 desc. node -5319 Mar 04 i 09:34 8°M11'25 -5324 Apr 07 i 12:23 0°₩ -5319 Apr 07 i 11:01 0°×7 max. Earth dist. -5324 Apr 10 j 06:00 1°**)**48'15 2.60048 AU -5319 Jun 17 j 16:34 26°**х** 17′30 retrograde morning rise -5324 May 07 j 22:23 19°**¥**51'44 -5319 Jul 15 j 03:43 21° ₹ 13'20 0.44417 AU min. Earth dist. -5324 May 23 j 17:03 $0^{\circ}\Upsilon$ -5319 Jul 21 j 11:46 19°**∡**06'44 -2.5m greatest brilliancy 6°**Y**06'18 asc. node -5324 Jun 02 j 06:52 opposition -5319 Jul 23 j 03:13 18° **₹** 33'33 -6°15'50 -5324 Jul 10 j 06:12 0°8 direct -5319 Aug 24 j 05:02 12°**х** 14′29 -5319 Oct 23 j 23:43 -5324 Aug 28 j 04:07 $0^{\circ}II$ 0°정 -5324 Oct 18 j 22:15 0ಂತಾ -5319 Dec 18 j 10:30 0°≈ $0^{\circ}\Omega$ -5318 Jan 22 j 20:41 20°≈58'55 -5324 Dec 22 j 23:22 asc. node 0°) retrograde -5323 Jan 25 j 05:31 5°**£**51'36 -5318 Feb 06 j 19:08 $0^{\circ}\Upsilon$ -5323 Feb 25 j 17:28 30°Rூ -5318 Mar 27 j 17:59 0°8 opposition -5323 Feb 28 j 03:33 29°511'56 4°49'46 -5318 May 14 j 14:21 greatest brilliancy -5323 Mar 01 j 16:38 28°9540'50 -2.2m -5318 May 27 j 23:17 8°**8**32'41 evening set min. Earth dist. -5323 Mar 08 j 15:40 26°921'32 0.47583 AU max. Earth dist. -5318 Jun 22 j 22:32 25°**8**23'17 2.61800 AU direct -5323 Apr 06 j 12:15 21°903'04 -5318 Jun 29 j 22:52 $0^{\circ}\Pi$ -5323 May 15 j 04:08 0° Ω desc. node -5323 May 30 j 05:49 7°**Ω**04'04 -5318 Jul 14 j 03:15 9°**Ⅲ**25'00 1°10'05 conjunction -5323 Jul 07 j 17:54 -5318 Jul 14 j 02:40 9°II24'01 1°10'23 minimum elong

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 9 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -5399 i	n astronomical cou	inting style is the year	5400 BCE in historical c	ounting style.	
	-5318 Aug 13 j 11:35	0ಂಣ			-5313 Nov 03 j 03:34	30° ŖƳ	
morning rise	-5318 Aug 30 j 07:55	11° 5 641'39		opposition	-5313 Nov 23 j 04:05	23° Y ′00'43	
	-5318 Sep 25 j 03:46	$0^{\circ}\Omega$		greatest brilliancy	-5313 Nov 23 j 04:54	22° Y ′59'53	-1.3m
	-5318 Nov 05 j 05:54	0° m		min. Earth dist.	-5313 Nov 24 j 04:44	22° Y 36'06	0.66965 AU
	-5318 Dec 15 j 05:39	0∘ ⊽		direct	-5312 Jan 02 j 23:32	13° Y ′06'42	
desc. node	-5317 Jan 20 j 09:45	27° £ 24'56			-5312 Mar 04 j 06:40	0°B	
	-5317 Jan 23 j 19:45	0° M ₊			-5312 Apr 28 j 19:08	Π °0	
	-5317 Mar 04 j 23:54	0° ∡ ¹			-5312 Jun 14 j 12:35	0°®	
	-5317 Apr 16 j 09:55	0° ප			-5312 Jul 27 j 02:06	$0^{\circ}\Omega$	
	-5317 Jun 04 j 10:01	0° ≈			-5312 Sep 05 j 01:51	0° m)	
retrograde	-5317 Aug 04 j 03:51	19° ≈ 14'39	0.50000.133	desc. node	-5312 Sep 10 j 23:41	4° m/32'53	
min. Earth dist.	-5317 Sep 05 j 23:12		0.56686 AU		-5312 Oct 13 j 15:05	0∘ ⊽	
opposition	-5317 Sep 12 j 06:28	9° ≈ 33'14		evening set	-5312 Oct 24 j 13:50	8° ≏ 36'38	
greatest brilliancy	-5317 Sep 11 j 12:45	9°≈50'30	-1.8m		-5312 Nov 20 j 18:30	0° M ₊	
direct	-5317 Oct 18 j 10:59	1°≈19'41		:	5212 D 20 : 17.01	200M 2617	1902107
asc. node	-5317 Dec 10 j 21:33	14°≈53'51		conjunction	-5312 Dec 28 j 17:01	29°M26'17	
	-5316 Jan 11 j 15:38 -5316 Mar 05 j 18:03	0° \ 0° Υ		minimum elong	-5312 Dec 28 j 14:41 -5312 Dec 29 j 10:38	29° ™ 21'49 0° ҂	1 03 21
	-5316 Mai 03 j 18.03	0°8			-5312 Dec 29 j 10.38 -5311 Feb 07 j 10:57	0 x.	
	-5316 Apr 24 j 11.12 -5316 Jun 10 j 09:46	0°II		max. Earth dist.	-5311 Feb 07 j 10.57		2.43975 AU
evening set	-5316 Jul 06 j 16:52	17° Ⅱ 33'40		morning rise	-5311 Yeb 13 j 03:30	16° る 55'30	2.43913 AU
max. Earth dist.	-5316 Jul 23 j 05:07		2.52175 AU	morning risc	-5311 Mar 21 j 10:18	0°≈	
max. Earth dist.	-5316 Jul 24 j 19:45	0°95	2.32173 AU		-5311 May 04 j 17:54	0° ∺	
	-5510 Jul 24 j 17.45	0 3			-5311 Jun 20 j 18:30	0°Υ	
conjunction	-5316 Aug 25 j 23:51	22°5946'40	1°00'38	asc. node	-5311 Aug 02 j 02:03	25° Υ '09'00	
minimum elong	-5316 Aug 26 j 01:32	22°549'42	1°00'54	use. Houe	-5311 Aug 10 j 17:38	0°8	
minimum ciong	-5316 Sep 04 j 22:42	0°Ω	1 0031		-5311 Oct 13 j 16:09	0°II	
	-5316 Oct 15 j 05:17	0° m)		retrograde	-5311 Nov 19 j 13:18	7° Ⅱ 00'04	
morning rise	-5316 Oct 18 j 21:20	2° Mp 47'16		renograde	-5311 Dec 23 j 05:40	30°R 8	
	-5316 Nov 23 j 06:44	0∘ 亚		opposition	-5311 Dec 27 j 18:26	28° 8 15'54	4°35'42
desc. node	-5316 Dec 07 j 07:36	10° £ 53'47		greatest brilliancy	-5311 Dec 28 j 10:43	28° 8 00'05	
	-5316 Dec 31 j 21:35	0° M		min. Earth dist.	-5310 Jan 01 j 13:46		0.62818 AU
	-5315 Feb 08 j 22:31	0° ∡ ¹		direct	-5310 Feb 06 j 19:45	18° 8 18'28	
	-5315 Mar 21 j 09:18	ರ°0			-5310 Mar 26 j 18:38	$\Pi^{\circ}0$	
	-5315 May 03 j 13:10	0° ≈			-5310 May 21 j 11:58	0° ©	
	-5315 Jun 21 j 03:06	0° ∀			-5310 Jul 05 j 07:56	$0^{\circ}\Omega$	
retrograde	-5315 Sep 09 j 16:44	28°) 21′01		desc. node	-5310 Jul 29 j 22:09	17° Q 50′03	
min. Earth dist.	-5315 Oct 17 j 00:38	19°) 30′25	0.64817 AU		-5310 Aug 15 j 04:04	0° m)	
opposition	-5315 Oct 19 j 18:00	18°) 24'41	-0°19'10		-5310 Sep 23 j 03:22	0∘ ত	
greatest brilliancy	-5315 Oct 19 j 17:25	18° ¥ 25′16	-1.5m		-5310 Oct 31 j 14:23	0° M	
asc. node	-5315 Oct 27 j 23:19	15° ¥ 12′18			-5310 Dec 09 j 14:25	0° ∡ ¹	
direct	-5315 Nov 27 j 21:31	9°) €04'57		evening set	-5310 Dec 30 j 12:04	15° ∡ ¹41'31	
	-5314 Feb 06 j 09:59	0° Y			-5309 Jan 18 j 23:10	0°ප	
	-5314 Apr 03 j 03:54	9° 8					
	-5314 May 21 j 21:49	Π $^{\circ}0$		conjunction	-5309 Feb 27 j 03:51	27° る 52'13	-0°56'51
	-5314 Jul 05 j 19:30	0 \circ \odot		minimum elong	-5309 Feb 27 j 05:50	27° る 55'41	0°57'08
	-5314 Aug 16 j 20:15	$0^{\circ}\Omega$			-5309 Mar 02 j 05:30	0° ≈	
evening set	-5314 Aug 24 j 03:13	5° Ω 22'42		max. Earth dist.	-5309 Mar 30 j 15:23	19° ≈ 23'07	2.56318 AU
max. Earth dist.	-5314 Sep 18 j 16:15	24° Ω 35′00	2.40050 AU		-5309 Apr 15 j 13:20	0° ∀	
	-5314 Sep 25 j 18:20	0° m)		morning rise	-5309 Apr 22 j 11:25	4°) 33′50	
					-5309 May 31 j 19:27	0° Υ	
conjunction	-5314 Oct 21 j 08:44	19° m 48'35	0°02'48	asc. node	-5309 Jun 19 j 23:18	12° Y ′06′18	
minimum elong	-5314 Oct 21 j 08:56	19° m 48'59	0°02'53		-5309 Jul 18 j 20:00	0°8	
behind sun begin	-5314 Oct 20 j 06:58	18° m 58'22			-5309 Sep 07 j 05:24	0°П	
behind sun end	-5314 Oct 22 j 10:55	20° m/39'37			-5309 Nov 03 j 06:09	0°®	
desc. node	-5314 Oct 25 j 03:20	22° m/45'24		retrograde	-5308 Jan 03 j 23:52	17°903'31	5000100
	-5314 Nov 03 j 09:26	ია ო		opposition	-5308 Feb 08 j 11:42	9°539'34	5°23'03
	-5314 Dec 11 j 14:37	0°M,		greatest brilliancy	-5308 Feb 10 j 00:03	9° © 07'03	-2.0m
morning rise	-5314 Dec 25 j 22:26	11°M11'20		min. Earth dist.	-5308 Feb 16 j 13:53	6°546'38	0.52671 AU
	-5313 Jan 19 j 07:01	0° ∡ ¹		direct	-5308 Mar 18 j 14:42	0°538'17	
	-5313 Feb 28 j 06:55	0° ට		J 1	-5308 Jun 05 j 06:26	0°Ω	
	-5313 Apr 11 j 09:30	0° ≈		desc. node	-5308 Jun 15 j 22:03	6° Ω 37'35	
	-5313 May 26 j 11:43	0° ∀			-5308 Jul 20 j 08:52	0° m)	
aga nodo	-5313 Jul 15 j 11:53	0°Υ 27°Υ46!42			-5308 Aug 30 j 04:34	ი∘ m 0∘ ত	
asc. node	-5313 Sep 15 j 01:30	27° Y 46'43			-5308 Oct 08 j 20:21	0°M₊ 0°. 7	
retrograde	-5313 Sep 23 j 12:01 -5313 Oct 14 j 12:21	0° と 2° と 32'45			-5308 Nov 17 j 20:04 -5308 Dec 29 j 01:42	0°⋜	
renograue	-5515 Oct 14 J 12.21	2 03243			-5500 Dec 29 J 01.42	v	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5307 Feb 10 i 01:28 0°≈ -5303 Dec 23 j 21:41 0∘**⊽** -5307 Feb 20 j 23:49 7°≈25'47 -5302 Feb 02 j 05:53 0°M evening set -5307 Mar 26 j 20:36 0°**)**€ -5302 Feb 06 j 03:56 2°M53'51 desc. node -5302 Mar 15 j 11:37 0°×7 -5302 Apr 29 j 07:07 11°\dagger32'58 -0°13'13 0°궁 conjunction -5307 Apr 13 j 12:36 -5302 Jul 05 j 17:31 -5307 Apr 13 j 13:09 minimum elong 11°**)** 33'53 0°13'20 0°≈ -5307 Apr 13 j 02:01 behind sun begin 11°**)** 15'47 retrograde -5302 Jul 18 j 09:48 1°≈07'11 behind sun end -5307 Apr 14 j 00:18 11°**X**51'59 -5302 Jul 30 j 18:24 30°Ŗる max. Earth dist. -5307 Apr 26 j 11:37 19°**)** 56'44 2.64324 AU min. Earth dist. -5302 Aug 18 j 02:06 24°る42'23 0.52094 AU asc. node -5307 May 06 j 19:25 26°**)** 35'39 greatest brilliancy -5302 Aug 24 j 08:34 22°**る**21'05 -2.0m -5307 May 12 j 02:45 $0^{\circ}\Upsilon$ opposition -5302 Aug 25 j 12:55 21°る54'24 -4°52'18 -5307 May 31 j 19:25 12°Y34'57 -5302 Sep 29 j 04:17 morning rise direct 14°**る**19'32 -5307 Jun 28 j 05:51 -5302 Nov 25 j 20:07 0°8 0°≈ -5307 Aug 14 j 19:15 $0^{\circ}II$ asc. node -5302 Dec 27 j 11:47 15°≈38'17 -5307 Oct 01 j 22:01 0ಂತಾ -5301 Jan 22 j 16:27 0°**)**€ -5307 Nov 20 j 20:25 $0^{\circ}\Omega$ -5301 Mar 14 j 23:54 $0^{\circ}\Upsilon$ -5306 Jan 17 j 13:05 0° m -5301 May 02 j 18:47 0°8 retrograde -5306 Mar 08 j 19:13 12° Mp 35'26 -5301 Jun 18 j 10:08 $0^{\circ}\Pi$ opposition -5306 Apr 09 j 03:33 7° Mp 10'11 1°46'49 evening set -5301 Jun 21 j 07:58 1°**I**55′10 greatest brilliancy -5306 Apr 09 j 15:30 7° Mp 01'34 -2.8m max. Earth dist. -5301 Jul 10 j 19:03 14°**Ⅱ**55'17 2.56445 AU min. Earth dist. -5306 Apr 14 j 23:44 5° m 29'38 0.40302 AU -5301 Aug 01 j 20:15 desc. node -5306 May 04 j 00:18 1° m 27'40 direct -5306 May 12 j 05:11 0° m 59'47 -5301 Aug 08 j 22:10 4°955'28 1°09'22 conjunction -5306 Jul 27 j 15:37 0∘∙თ minimum elong -5301 Aug 08 j 22:55 4°956'46 1°09'41 -5306 Sep 11 j 13:32 0°M -5301 Sep 13 j 03:15 $0^{\circ}\Omega$ -5306 Oct 24 j 22:40 0°×7 -5301 Sep 28 j 09:50 11°Ω10'16 morning rise -5306 Dec 07 j 11:11 0°궁 -5301 Oct 23 j 16:08 0° m -5305 Jan 21 j 01:49 -5301 Dec 02 j 00:36 0∘**⊽** 0°≈≈ 0°**₩** -5301 Dec 25 j 01:29 17°**-**45'44 -5305 Mar 07 j 22:48 desc node -5305 Mar 24 j 15:02 10°**)** 44′16 -5300 Jan 09 j 22:17 oom. asc. node 18°**¥**05'09 -5300 Feb 18 j 06:23 0°×7 -5305 Apr 05 j 02:09 evening set $0^{\circ}\Upsilon$ -5300 Mar 30 j 03:42 0°궁 -5305 Apr 23 j 17:51 17°**Y**16′08 0°≈ max. Earth dist. -5305 May 20 j 19:56 2.67015 AU -5300 May 13 j 09:17 -5300 Jul 05 j 12:07 0°**)**€ -5305 May 22 j 22:59 18°**Y**37'32 0°32'11 -5300 Aug 26 j 17:22 conjunction retrograde 14°**H** 13'43 -5305 May 22 j 21:55 18°**Y**35′50 0°32′14 -5300 Oct 01 j 10:27 minimum elong min. Earth dist. 5°**¥**56'43 0.62291 AU 4°**升**16'44 -1°32'53 -5305 Jun 09 j 18:22 0° 8 opposition -5300 Oct 05 j 14:27 -5305 Jul 07 j 15:42 17°**8**54'44 greatest brilliancy -5300 Oct 05 j 09:27 4°**)** €21'44 -1.6m morning rise -5305 Jul 26 j 07:45 $0^{\circ}II$ -5300 Oct 16 j 23:16 30°R≈ -5305 Sep 10 j 00:34 0ಂತಾ direct -5300 Nov 12 j 18:05 25°≈18'29 -5305 Oct 24 j 20:23 $0^{\circ}\Omega$ -5300 Nov 13 j 14:18 25°≈18'45 asc. node -5305 Dec 08 j 02:59 0° m -5300 Dec 12 j 05:33 0°) -5304 Jan 21 j 14:00 0∘**⊽** -5299 Feb 18 j 04:29 $0^{\circ}\Upsilon$ -5304 Mar 08 j 12:30 0°M -5299 Apr 11 j 13:55 0°8 desc. node -5304 Mar 21 j 03:59 -5299 May 29 j 09:56 $0^{\circ}\Pi$ 7°ML18'37 -5299 Jul 13 i 01:34 retrograde -5304 May 24 j 15:37 29°M12'19 0ಂತಾ -5304 Jun 20 i 07:31 min. Earth dist. 24°M43'43 0.40106 AU evening set -5299 Aug 03 j 21:47 15°522'52 greatest brilliancy -5304 Jun 25 i 07:57 23°M14'58 -2.7m max. Earth dist. -5299 Aug 19 j 22:17 26°557'04 2.44683 AU opposition -5304 Jun 26 i 15:37 22°M51'28 -5°55'34 -5299 Aug 24 j 02:20 $0^{\circ}\Omega$ direct -5304 Jul 27 j 02:06 17°M24'48 -5304 Sep 13 j 20:53 0°×7 -5299 Sep 27 i 10:12 25°Ω39'20 0°31'04 conjunction -5304 Nov 09 j 02:21 0°궁 -5299 Sep 27 j 12:08 25°Ω43'01 0°31'13 minimum elong -5304 Dec 28 j 13:45 -5299 Oct 03 j 03:00 0°≈≈ O° m -5303 Feb 08 j 11:32 25°≈58'58 desc. node -5299 Nov 10 j 22:29 0°**£**02'33 asc. node -5303 Feb 14 j 22:31 0°**)**€ -5299 Nov 10 j 21:10 0∘∙თ $0^{\circ}\Upsilon$ -5303 Apr 04 j 00:22 morning rise -5299 Nov 27 j 13:17 13°**♀**02'50 24° Y 35'07 -5299 Dec 19 j 04:55 0°M -5303 May 12 j 23:58 evening set -5303 May 21 j 12:02 0°8 -5298 Jan 26 j 23:12 0°**∡**7 -5303 Jun 12 j 22:39 14°**8**25'18 2.64288 AU -5298 Mar 08 j 01:05 0°정 max. Earth dist. -5298 Apr 19 j 08:54 0°≈ -5303 Jun 28 j 20:30 24°846'28 1°04'01 0°**)**€ conjunction -5298 Jun 04 j 05:05 $0^{\circ}\Upsilon$ minimum elong -5303 Jun 28 j 19:24 24°**8**44'40 1°04'15 -5298 Jul 27 j 08:21 -5303 Jul 06 j 19:33 $0^{\circ}II$ retrograde -5298 Sep 30 j 23:33 19°**Y**38'46 morning rise -5303 Aug 13 j 22:09 25°**Ⅲ**29'05 asc. node -5298 Oct 01 j 16:21 19°**Y**38'34 -5303 Aug 20 j 13:10 0 \circ \odot opposition -5298 Nov 09 j 22:22 9°**Y**54'15 1°27'25 -5303 Oct 02 j 14:55 $0^{\circ}\Omega$ -5298 Nov 09 j 11:44 10°**Y**04'56 0.66869 AU min. Earth dist. -5303 Nov 13 j 06:19 0° m -5298 Nov 09 j 21:02 9°**Y**55'35 greatest brilliancy -1.4m

•	nical year style is used: Th		•	* *			C 11
direct	-5298 Dec 20 j 06:06	0° Υ 10'23	in astronomicai co	minimum elong	-5292 Mar 27 j 18:50	25°≈58'40	0°31'//3
direct	-5297 Mar 18 j 00:44	0°8		minimum clong	-5292 Apr 02 j 20:39	0° ∺	0 31 43
	-5297 May 08 j 15:22	0°II		max. Earth dist.	-5292 Apr 02 j 20:39	8° ∺ 58'05	2.61809 AU
	-5297 Jun 23 j 10:07	0°®		morning rise	-5292 May 16 j 21:10	28° X 37'04	2.01007710
	-5297 Aug 04 j 16:46	0° U		morning 1130	-5292 May 19 j 00:55	0° Υ	
	-5297 Sep 13 j 14:59	0° m)		asc. node	-5292 May 23 j 11:39	2° Υ ′50'44	
desc. node	-5297 Sep 28 j 18:21	11° m)41'51		use. Houe	-5292 Jul 05 j 09:07	0°8	
evening set	-5297 Sep 29 j 10:43	12° m 13'40			-5292 Aug 22 j 16:38	0°II	
	-5297 Oct 22 j 04:11	0∘ ⊽			-5292 Oct 11 j 17:46	0°®	
	-5297 Nov 29 j 07:24	0° M ,			-5292 Dec 06 j 15:50	$0^{\circ}\Omega$	
	J			retrograde	-5291 Feb 08 j 10:49	18° Ω 16'25	
conjunction	-5297 Dec 02 j 07:24	2°M21'07	-0°43'56	opposition	-5291 Mar 13 j 09:08	12° Ω 03'32	4°05'21
minimum elong	-5297 Dec 02 j 04:06	2°M14'40	0°44'02	greatest brilliancy	-5291 Mar 14 j 17:09	11° Ω 37'51	-2.4m
	-5296 Jan 06 j 22:36	0° ∡ ¹		min. Earth dist.	-5291 Mar 21 j 11:58	9° Ω 28'04	0.44784 AU
max. Earth dist.	-5296 Jan 11 j 03:36	3° ∡ 13'04	2.39192 AU	direct	-5291 Apr 18 j 10:21	4° Ω 32'42	
morning rise	-5296 Feb 07 j 10:09	23° ∡ ¹44'59		desc. node	-5291 May 20 j 17:39	11° Ω 04′05	
	-5296 Feb 15 j 21:20	ರ°ರ			-5291 Jun 27 j 17:00	0° m y	
	-5296 Mar 28 j 19:50	0° ≈			-5291 Aug 12 j 10:00	0∘ ⊽	
	-5296 May 12 j 06:52	0° ∀			-5291 Sep 23 j 06:49	0° M	
	-5296 Jun 29 j 00:03	0° Y			-5291 Nov 03 j 16:52	0° ∡ ¹	
asc. node	-5296 Aug 18 j 17:04	28° Y ′28′28			-5291 Dec 15 j 23:54	8°0	
	-5296 Aug 21 j 17:28	$0^{\circ}S$			-5290 Jan 28 j 18:35	0° ≈	
retrograde	-5296 Nov 04 j 13:19	23° 8 26'37			-5290 Mar 15 j 02:41	0° ∀	
opposition	-5296 Dec 13 j 11:26	14° 8 20'43	3°52'09	evening set	-5290 Mar 20 j 03:18	3°) 16′18	
greatest brilliancy	-5296 Dec 13 j 20:16	14° 8 12'00	-1.4m	asc. node	-5290 Apr 10 j 06:48	16°) ₹56'54	
min. Earth dist.	-5296 Dec 16 j 19:33	13° 8 01'51	0.65196 AU		-5290 Apr 30 j 14:54	0° Y	
direct	-5295 Jan 23 j 15:23	4° 8 19'58					
	-5295 Apr 11 j 07:27	Π °0		conjunction	-5290 May 08 j 02:27	4° Υ 47'07	0°15'35
	-5295 May 31 j 09:27	0 \circ \odot		minimum elong	-5290 May 08 j 01:52	4° Υ 46'11	0°15'35
	-5295 Jul 13 j 23:19	0 $^{\circ}\Omega$		behind sun begin	-5290 May 07 j 22:58	4° Υ 41'33	
desc. node	-5295 Aug 15 j 15:05	24° Ω 08′20		behind sun end	-5290 May 08 j 04:46	4° Y 50'49	
	-5295 Aug 23 j 08:21	0° т р		max. Earth dist.	-5290 May 11 j 12:40	6° Y ′58′28	2.66609 AU
	-5295 Oct 01 j 01:56	0∘ ⊽			-5290 Jun 16 j 14:43	0°8	
	-5295 Nov 08 j 08:31	0° M ₊		morning rise	-5290 Jun 23 j 11:20	4° 8 22'43	
evening set	-5295 Dec 05 j 13:40	21°ML07'02			-5290 Aug 02 j 10:47	0°II	
	-5295 Dec 17 j 04:10	0° ∡			-5290 Sep 17 j 19:56	0°©	
	-5294 Jan 26 j 08:16	0°ප			-5290 Nov 02 j 22:22	0° N	
	5004 F 1 05 : 15 04	70=7000	100754		-5290 Dec 19 j 12:00	0° m)	
conjunction	-5294 Feb 05 j 15:04	7°る28'06 7°る30'14		JJ.	-5289 Feb 06 j 18:43	0° ™	
minimum elong	-5294 Feb 05 j 16:15		1-0/11	desc. node	-5289 Apr 07 j 19:19	26° £ 30'34	
Fauth diet	-5294 Mar 09 j 10:21	0°≈ 5°2 215157	2.51863 AU	retrograde	-5289 Apr 27 j 00:32	28° £ 51'03 24° £ 06'06	0.270/5 ATT
max. Earth dist. morning rise	-5294 Mar 17 j 00:57	17°≈50'42	2.51803 AU	min. Earth dist.	-5289 May 26 j 02:00	23° £ 34'48	0.37865 AU
morning rise	-5294 Apr 04 j 11:38 -5294 Apr 22 j 16:10	0° ∺		opposition	-5289 May 28 j 00:19	23° 2 40'40	
	-5294 Apr 22 j 16.10 -5294 Jun 08 j 01:59	0 K 0°Υ		greatest brilliancy direct	-5289 May 27 j 15:39 -5289 Jun 27 j 00:34	23 ≥ 40 40 18° ≥ 33'44	-2.9111
asa nada	-5294 Jul 06 j 15:59	17° Υ 47'26		direct	-5289 Aug 11 j 07:10	0°M	
asc. node	-5294 Jul 26 j 20:04	0°8			-5289 Oct 05 j 04:59	0° ⊼ ¹	
	-5294 Sep 17 j 16:45	0°II			-5289 Nov 21 j 20:22	0°₹	
	-5294 Dec 06 j 19:09	0°©			-5288 Jan 07 j 14:13	0° ≈	
retrograde	-5294 Dec 15 j 16:33	0°\$28'31			-5288 Feb 23 j 16:19	0° ∺	
	-5294 Dec 24 j 08:27	30°RⅡ		asc. node	-5288 Feb 26 j 03:37	1°) 33′58	
opposition	-5293 Jan 21 j 10:53	22° II 27'53	5°20'09	abe. Houe	-5288 Apr 11 j 02:53	0° Υ	
greatest brilliancy	-5293 Jan 22 j 16:29	22° I I00'14		evening set	-5288 Apr 28 j 02:02	10° Ƴ 44'17	
min. Earth dist.	-5293 Jan 28 j 10:50	19° ∏ 51'33	0.57292 AU	evening sec	-5288 May 28 j 08:25	0°8	
direct	-5293 Mar 02 j 17:05	12° Ⅱ 53'28	0.07272110	max. Earth dist.	-5288 Jun 03 j 13:22	3° 8 58'29	2.65982 AU
	-5293 Apr 29 j 19:16	0°95				. 0.02)	
	-5293 Jun 19 j 04:33	$0^{\circ}\Omega$		conjunction	-5288 Jun 14 j 01:04	10° 8 43'09	0°54'03
desc. node	-5293 Jul 03 j 15:46	9° Ω 52'11		minimum elong	-5288 Jun 13 j 23:46	10° 8 41'03	0°54'13
	-5293 Jul 31 j 16:26	0° m)			-5288 Jul 13 j 16:53	0°Ⅱ	-
	-5293 Sep 09 j 10:46	0∘ ⊽		morning rise	-5288 Jul 29 j 14:07	10° Ⅲ 28'30	
	-5293 Oct 18 j 10:38	0° m .			-5288 Aug 27 j 17:30	0°95	
	-5293 Nov 26 j 21:47	0° ∡ ¹			-5288 Oct 10 j 07:58	0° Ω	
	-5292 Jan 06 j 16:41	0°ਤ			-5288 Nov 21 j 17:07	0° mp	
evening set	-5292 Feb 02 j 20:23	19° ට 16'19			-5287 Jan 02 j 06:56	0∘ ⊽	
S	-5292 Feb 18 j 07:35	0° ≈			-5287 Feb 12 j 20:42	0° M .	
	3			desc. node	-5287 Feb 22 j 20:54	7° ™ 06'24	
conjunction	-5292 Mar 27 j 17:28	25°≈56'25	-0°31'33		-5287 Mar 28 j 06:27	0° ∡ 7	
•	. .				· J · · · = /		

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 12 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -5399 i	n astronomical cou	nting style is the year	5400 BCE in historical co	ounting style.	
	-5287 May 19 j 18:45	0°ರ			-5282 Aug 12 j 03:14	$0^{\circ}\Omega$	
retrograde	-5287 Jun 29 j 14:27	10°る11'33		evening set	-5282 Sep 05 j 12:57	18° Ω 10'54	
min. Earth dist.	-5287 Jul 28 j 03:28	4° る 39'26	0.47135 AU		-5282 Sep 21 j 01:25	0° m	
greatest brilliancy	-5287 Aug 03 j 15:44	2° පි 22'00	-2.3m	desc. node	-5282 Oct 15 j 13:12	18° m 57'48	
opposition	-5287 Aug 05 j 05:16	1° る 48'46	-5°55'29	max. Earth dist.	-5282 Oct 16 j 20:12	19° m 58'18	2.38149 AU
	-5287 Aug 10 j 12:14	30°R ✓			-5282 Oct 29 j 15:37	0∘ 亚	
direct	-5287 Sep 07 j 04:25	25° х 00′44					
	-5287 Oct 06 j 17:37	0° ට		conjunction	-5282 Nov 05 j 00:29	5° ഫ 00'15	-0°14'58
	-5287 Dec 10 j 23:11	0° ≈		minimum elong	-5282 Nov 04 j 23:11	4° ≙ 57'41	0°14'57
asc. node	-5286 Jan 13 j 02:40	18° ≈ 48'59		behind sun begin	-5282 Nov 04 j 12:06	4° £ 35'55	
	-5286 Feb 01 j 02:39	0° ∀		behind sun end	-5282 Nov 05 j 10:15	5° ≏ 19'26	
	-5286 Mar 22 j 18:00	0° Υ			-5282 Dec 06 j 19:29	0° M	
	-5286 May 09 j 21:22	0° 8		morning rise	-5281 Jan 11 j 03:56	27°M29'05	
evening set	-5286 Jun 05 j 17:21	17° 8 10'54			-5281 Jan 14 j 10:37	0° ∡	
	-5286 Jun 25 j 08:15	0°II			-5281 Feb 23 j 09:04	0°る	
max. Earth dist.	-5286 Jun 29 j 04:51	2°Щ32'56	2.60085 AU		-5281 Apr 06 j 08:37	0° ≈	
					-5281 May 21 j 02:51	0°) €	
conjunction	-5286 Jul 23 j 06:02	18° Ⅱ 39'16			-5281 Jul 08 j 23:41	0°Υ 200 Ω 25112	
minimum elong	-5286 Jul 23 j 05:52	18° Ⅱ 39'00	1°11'45	asc. node	-5281 Sep 05 j 07:45	29° Y 27'12	
	-5286 Aug 08 j 20:16	0₀æ			-5281 Sep 06 j 16:39	0°8	
morning rise	-5286 Sep 09 j 09:02	22° © 06'30		retrograde	-5281 Oct 22 j 09:36	10° 8 23'44	2000155
	-5286 Sep 20 j 09:21	0°O		opposition	-5281 Nov 30 j 20:38	1°800'07	
	-5286 Oct 31 j 06:46	0° m/y		greatest brilliancy	-5281 Nov 30 j 23:44	0° 8 57'02	
1 1	-5286 Dec 10 j 00:45	0° ™		min. Earth dist.	-5281 Dec 02 j 17:06		0.66616 AU
desc. node	-5285 Jan 10 j 19:52	24° £ 16′30		T' A	-5281 Dec 03 j 09:08	30° ₹ Υ	
	-5285 Jan 18 j 07:57	0°M		direct	-5280 Jan 10 j 21:11	21° Υ 02'21	
	-5285 Feb 27 j 02:52	0° ∡			-5280 Feb 22 j 01:21	0° B	
	-5285 Apr 09 j 18:21	0°る			-5280 Apr 22 j 12:42	0°Ⅱ 0°€	
	-5285 May 26 j 03:30	0°≈			-5280 Jun 09 j 04:55	0ం U 0ంబ	
retrograde	-5285 Aug 13 j 01:06	29°≈02'00	0.50000 ATT		-5280 Jul 22 j 02:22		
min. Earth dist.	-5285 Sep 15 j 22:28	21°≈24'06 19°≈12'02	0.58898 AU	daga mada	-5280 Aug 31 j 05:23	0°M)	
opposition greatest brilliancy	-5285 Sep 21 j 12:23	19 ≈12 02 19°≈24'14		desc. node	-5280 Sep 01 j 10:24 -5280 Oct 08 j 20:02	0° ₯ 55'35 0° ௳	
•	-5285 Sep 21 j 00:00 -5285 Oct 28 j 11:22	19 ≈24 14 10°≈40'41	-1./111	avanina aat	-5280 Oct 08 j 20.02 -5280 Nov 08 j 18:22	0 <u>≈</u> 24° ≏ 19'18	
direct	-5285 Oct 28 j 11:22 -5285 Dec 01 j 04:06	10°≈40'41 16°≈43'32		evening set	-5280 Nov 08 j 18:22 -5280 Nov 16 j 00:00	24° 22 19′18 0° M	
asc. node	-5284 Jan 03 j 00:50	10 ≈ 43 32 0° H			-5280 Nov 10 j 00:00 -5280 Dec 24 j 16:29	0° ⊼ ¹	
	-5284 Feb 28 j 22:17	0° Υ			-3200 Dec 24 j 10.27	0 ^	
	-5284 Apr 19 j 10:25	0.8 0 1		conjunction	-5279 Jan 12 j 10:40	140 🗷 13'04	-1°07'56
	-5284 Jun 05 j 16:06	0°II		minimum elong	-5279 Jan 12 j 09:44		
evening set	-5284 Jul 16 j 13:25	27° Ⅱ 29'43		minimum clong	-5279 Feb 02 j 17:00	0°る	1 00 14
evening set	-5284 Jul 20 j 04:17	0°9		max. Earth dist.	-5279 Feb 28 j 01:08		2.46828 AU
max. Earth dist.	-5284 Jul 31 j 23:40		2.49559 AU	morning rise	-5279 Mar 15 j 10:17	29° පි 08'27	2.10020710
max. Earth dist.	-5284 Aug 31 j 06:36	0°Ω	2.47337 110	morning rise	-5279 Mar 16 j 15:51	0° ≈	
	320171 ug 31 j 00.30	V 00			-5279 Apr 29 j 21:16	0°) €	
conjunction	-5284 Sep 06 j 03:24	4° Ω 18'08	0°52'09		-5279 Jun 15 j 14:06	0° Υ	
minimum elong	-5284 Sep 06 j 05:27	4° Ω 21'55		asc. node	-5279 Jul 23 j 06:48	22° Y ′53'47	
g	-5284 Oct 10 j 11:08	0° m)	0 02 23	ase. noue	-5279 Aug 04 j 11:48	0°8	
morning rise	-5284 Nov 01 j 10:11	16° m/50'06			-5279 Oct 01 j 03:26	0°II	
<i>5 5</i>	-5284 Nov 18 j 09:57	0∘ ⊽		retrograde	-5279 Nov 28 j 14:48	15° Ⅲ 31'41	
desc. node	-5284 Nov 27 j 16:06	7° £ 12'23		opposition	-5278 Jan 05 j 09:24	7° Ⅱ 01'30	4°55'55
	-5284 Dec 26 j 21:53	0°M		greatest brilliancy	-5278 Jan 06 j 06:27	6° Ⅱ 41'18	-1.6m
	-5283 Feb 03 j 19:47	0° ∡ ¹		min. Earth dist.	-5278 Jan 11 j 00:28	4° Ⅱ 52'07	0.61101 AU
	-5283 Mar 16 j 02:04	0°ರ			-5278 Jan 25 j 13:08	30° ₹ 8	
	-5283 Apr 27 j 19:33	0° ≈		direct	-5278 Feb 15 j 06:52	27° 8 09'18	
	-5283 Jun 13 j 23:43	0° ∀			-5278 Mar 09 j 04:46	$\Pi^{\circ}0$	
	-5283 Aug 14 j 05:34	$0^{\circ}\mathbf{\Upsilon}$			-5278 May 14 j 08:15	0°©	
retrograde	-5283 Sep 17 j 12:16	6° Ƴ 31'21			-5278 Jun 29 j 11:45	$0^{\circ}\Omega$	
asc. node	-5283 Oct 18 j 06:22	0° Υ 18'12		desc. node	-5278 Jul 20 j 08:27	14° Q 52′20	
	-5283 Oct 19 j 01:42	30° ₹ ₩			-5278 Aug 09 j 19:05	0° m)	
min. Earth dist.	-5283 Oct 25 j 16:01	27°) 24′21	0.65815 AU		-5278 Sep 18 j 00:03	0∘ <u>⊽</u>	
opposition	-5283 Oct 27 j 13:59	26°) 38′07	0°21'26		-5278 Oct 26 j 14:40	0° M ₊	
greatest brilliancy	-5283 Oct 27 j 13:14	26°) 38′52	-1.4m		-5278 Dec 04 j 17:38	0° ∡ 7	
direct	-5283 Dec 06 j 05:07	17°) €08'34		evening set	-5277 Jan 12 j 13:13	28° ∡ ¹47'59	
	-5282 Jan 27 j 17:24	0° Υ			-5277 Jan 14 j 04:52	ರ∘ರ	
	-	ر _ە ب				0° ≈	
	-5282 Mar 28 j 04:57	$_{0}$ 8			-5277 Feb 25 j 12:54	0 ~	
	-5282 Mar 28 j 04:57 -5282 May 16 j 19:18	0°U			-32// Feb 23 J 12:34	0 ~	
				conjunction	-5277 Mar 10 j 09:30	0 ~ 8°≈50'08	-0°48'32

3	omena or wars from		•	//		, ,	• 10
minimum elong	ical year style is used: Th -5277 Mar 10 j 11:26	8°≈53'26		retrograde	-5272 Jun 07 j 18:29	15° ₹ 24'18	
max. Earth dist.		8 ≈33 20 27°≈09'34		min. Earth dist.	-5272 Jul 04 j 15:34	10° x 39'19	0.42339 AU
max. Earth dist.	-5277 Apr 06 j 14:36		2.58469 AU		,		
morning rise	-5277 Apr 10 j 21:22 -5277 May 02 j 01:31	0° \ 13° \ 53'29		greatest brilliancy	-5272 Jul 10 j 13:46	8° ₹ 46'51 8° ₹ 16'25	-2.6m
morning rise	, ,	13 χ3329 0° Υ		opposition	-5272 Jul 12 j 03:49	2° x 10 23	-0 1830
1-	-5277 May 27 j 01:25	0° γ 8° Υ 58'51		direct	-5272 Aug 12 j 11:47 -5272 Oct 31 j 01:56		
asc. node	-5277 Jun 10 j 04:26				-	0° ට	
	-5277 Jul 13 j 18:09	$\mathfrak{B}_{\circ 0}$		1-	-5272 Dec 22 j 06:38	0°≈ 23°≈ ≈10110	
	-5277 Sep 01 j 04:48	0. 0. Ш		asc. node	-5271 Jan 29 j 18:01	23°≈19'10 0°) €	
	-5277 Oct 24 j 15:24				-5271 Feb 09 j 15:40	0 K 0°Υ	
retrograde	-5276 Jan 16 j 04:03 -5276 Feb 19 j 19:28	27°548'30 20°548'08	5°09'13		-5271 Mar 30 j 04:36 -5271 May 16 j 21:14	0°8	
opposition	,	20°934808 20°9315'18	-2.1m	avanina aat	, ,	2° 8 58'34	
greatest brilliancy min. Earth dist.	-5276 Feb 21 j 09:21	20 9 13 18 17° 9 53' 13	-2.1111 0.49894 AU	evening set	-5271 May 21 j 13:16		2.63014 AU
	-5276 Feb 28 j 06:11 -5276 Mar 29 j 01:45	17 933 13 12°9512'48	0.49894 AU	max. Earth dist.	-5271 Jun 18 j 17:20 -5271 Jul 02 j 06:05	0°Ⅱ	2.03014 AU
direct	,	12 3 1248			-32/1 Jul 02 J 00.03	υц	
desc. node	-5276 May 25 j 14:47	6° Ω 32'02		agniumation	5271 Iv.1 07: 12:24	3° Ⅱ 28'30	1°08'03
desc. node	-5276 Jun 06 j 09:20			conjunction	-5271 Jul 07 j 12:24	3° П 28'30	1°08'18
	-5276 Jul 13 j 02:23	0° െ 0°ആ		minimum elong	-5271 Jul 07 j 11:34	ა m2708 0°©	1 08 18
	-5276 Aug 23 j 23:17			marning rica	-5271 Aug 15 j 21:45	4°958'09	
	-5276 Oct 03 j 04:10	0°M 0°. ₹		morning rise	-5271 Aug 23 j 03:06		
	-5276 Nov 12 j 12:50	0°⋜			-5271 Sep 27 j 18:52	0° N	
	-5276 Dec 24 j 01:22				-5271 Nov 08 j 03:06	0° my	
. ,	-5275 Feb 05 j 06:09	0°≈			-5271 Dec 18 j 09:35	0∘ 亚	
evening set	-5275 Mar 03 j 04:59	17°≈27'17		desc. node	-5270 Jan 27 j 13:42	0°M₁3'30	
	-5275 Mar 22 j 04:45	0° ℋ			-5270 Jan 27 j 06:30	0°M 0°. ₹	
	5075 4 00:16:20	2001/20120	0002120		-5270 Mar 08 j 19:17	0° ∡ ¹	
conjunction	-5275 Apr 22 j 16:32	20° ¥ 28'30			-5270 Apr 20 j 22:21	0°る	
minimum elong	-5275 Apr 22 j 16:39	20°) €28'41	0°02'34	. 1	-5270 Jun 12 j 02:49	0°≈	
behind sun begin	-5275 Apr 21 j 20:39	19° ¥ 56′26		retrograde	-5270 Jul 28 j 04:35	12°≈10'13	0.54710.411
behind sun end	-5275 Apr 23 j 12:40	21°) €00'56		min. Earth dist.	-5270 Aug 29 j 01:30		0.54718 AU
asc. node	-5275 Apr 27 j 00:15	23°) € 15'35	2.65261.411	opposition	-5270 Sep 04 j 22:28	2°≈39'23	
max. Earth dist.	-5275 May 02 j 03:01	26° π 32'37 0° Υ	2.65361 AU	greatest brilliancy	-5270 Sep 04 j 00:15	3°≈00'45	-1.9m
marning rica	-5275 May 07 j 12:04	0° γ 20° γ 51'25		direct	-5270 Sep 12 j 02:51	30°Rる 24°る41'58	
morning rise	-5275 Jun 09 j 04:03 -5275 Jun 23 j 13:04			direct	-5270 Oct 10 j 11:42 -5270 Nov 10 j 12:36		
	3	$\mathfrak{B}_{\circ 0}$		1-	,	0° ≈ 15° ≈ 07'48	
	-5275 Aug 09 j 18:59 -5275 Sep 26 j 03:35	0°©		asc. node	-5270 Dec 17 j 18:32 -5269 Jan 15 j 20:09	13 ≈ 07 48	
	-5275 Nov 13 j 06:54	0°€ 0°€			-5269 Mar 09 j 14:41	0°Υ	
	-5274 Jan 03 j 14:35	0° m)			-5269 Apr 27 j 22:17	0°8	
retrograde	-5274 Mar 26 j 10:11	28° Mp 33'34			-5269 Jun 13 j 18:43	0°II	
desc. node	-5274 Mar 20 j 10:11 -5274 Apr 24 j 12:12	23° m 51'04		evening set	-5269 Jun 30 j 13:27	11° Ⅱ 08'08	
opposition	-5274 Apr 26 j 01:06	23° m/26'02	0°06'50	max. Earth dist.	-5269 Jul 18 j 04:11	23° Ⅱ 03'54	2.54170 AU
greatest brilliancy	-5274 Apr 26 j 01:27	23° m) 25'47		max. Lartii dist.	-5269 Jul 28 j 05:56	0°95	2.54170 AC
min. Earth dist.	-5274 Apr 20 j 01:27	22° m/27'48	0.38644 AU		-5209 Jul 28 J 05.50	0 3	
direct	-5274 May 27 j 14:05	17° m 54'24	0.500 11 AC	conjunction	-5269 Aug 18 j 23:40	15° © 15'20	1°05'14
direct	-5274 Jul 12 j 10:55	0° ي		minimum elong	-5269 Aug 19 j 00:58	15°917'38	1°05'33
	-5274 Sep 02 j 21:08	0° m .		minimum ciong	-5269 Sep 08 j 11:47	0°Ω	1 03 33
	-5274 Oct 18 j 05:13	0° ∡ 7		morning rise	-5269 Oct 10 j 04:59	23° Ω 26'46	
	-5274 Dec 01 j 17:33	0°ਤੇ			-5269 Oct 18 j 21:50	0° m)	
	-5273 Jan 15 j 21:48	0° ≈			-5269 Nov 27 j 02:44	0° ت	
	-5273 Mar 03 j 03:07	0° ∀		desc. node	-5269 Dec 15 j 12:22	∘ – 14° ≏ 14'54	
asc. node	-5273 Mar 14 j 19:51	7° ¥ 30′07		dose. node	-5268 Jan 04 j 20:15	0° ™	
evening set	-5273 Apr 13 j 22:42	26°) (42′53			-5268 Feb 12 j 23:19	0° ∡ 7	
	-5273 Apr 19 j 02:39	0° Υ			-5268 Mar 24 j 12:50	0°ප	
max. Earth dist.	-5273 May 26 j 05:27	23° Y ′38′03	2.66873 AU		-5268 May 06 j 23:33	0° ≈	
					-5268 Jun 25 j 19:17	0°) €	
conjunction	-5273 May 31 j 09:14	26° Y ′55'45	0°40'56	retrograde	-5268 Sep 03 j 19:59	22°) 53'11	
minimum elong	-5273 May 31 j 08:00	26° Y ′53'47	0°41'02	min. Earth dist.	-5268 Oct 10 j 11:29	14°) € 16'55	0.63806 AU
	-5273 Jun 05 j 04:27	0°8	- -	opposition	-5268 Oct 13 j 20:19	12°) 55'50	
morning rise	-5273 Jul 15 j 21:46	26° 8 15'18		greatest brilliancy	-5268 Oct 13 j 18:13	12°) 57'56	
<i>3</i>	-5273 Jul 21 j 15:45	0°II		asc. node	-5268 Nov 03 j 20:05	5°) (48'41	
	-5273 Sep 05 j 01:57	0°©		direct	-5268 Nov 21 j 14:05	3°) (44′57	
	-5273 Oct 19 j 09:40	0°N			-5267 Feb 10 j 21:48	0° Υ	
	-5273 Dec 01 j 20:26	0° m)			-5267 Apr 06 j 02:24	0°8	
	-5272 Jan 13 j 22:56	0∘ <u>⊽</u>			-5267 May 24 j 11:51	0°II	
	-5272 Feb 27 j 00:04	0° M			-5267 Jul 08 j 08:11	0ಂತಾ	
daga mada	-5272 Mar 11 j 13:26	8°M47'43		evening set	-5267 Aug 15 j 02:39	26°\$50'45	
desc. node	-32/2 Widi 11 13.20	O HUTT TO		evening set	-320/ Aug 13 02.39	20 3043	
desc. node	-5272 Apr 16 j 22:49	0° ⊼		evening set	-5267 Aug 19 j 10:10	0°Ω	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 14 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	ie year -5399 i	n astronomical cou	unting style is the year	5400 BCE in historical c	ounting style.	
max. Earth dist.	-5267 Sep 03 j 13:26	11° Ω 11'56	2.42031 AU		-5262 Jun 03 j 04:54	0° Y	
	-5267 Sep 28 j 10:13	0° ™		asc. node	-5262 Jun 26 j 21:04	14° Ƴ 52'58	
					-5262 Jul 21 j 11:08	9° 8	
conjunction	-5267 Oct 10 j 14:17	9° m 21'11	0°15'43		-5262 Sep 10 j 16:30	Π $^{\circ}0$	
minimum elong	-5267 Oct 10 j 15:27	9° m 23'27	0°15'49		-5262 Nov 10 j 21:06	0 \circ \odot	
behind sun begin	-5267 Oct 10 j 08:59	9° m 10'57		retrograde	-5262 Dec 26 j 08:54	10° ഇ 08'18	
behind sun end	-5267 Oct 10 j 21:56	9° m 35'58		opposition	-5261 Jan 31 j 11:10	2° 5 27'08	5°24'38
desc. node	-5267 Nov 01 j 08:15	26° m 15'22		greatest brilliancy	-5261 Feb 01 j 20:59	1° © 56'15	-1.8m
	-5267 Nov 06 j 03:11	0∘ ⊽			-5261 Feb 07 j 04:26	30°RⅡ	
morning rise	-5267 Dec 13 j 08:44	29° ≙ 11'45		min. Earth dist.	-5261 Feb 08 j 03:12	29° Ⅱ 39'35	0.54818 AU
	-5267 Dec 14 j 09:23	0°M		direct	-5261 Mar 12 j 04:35	23° Ⅱ 08'47	
	-5266 Jan 22 j 01:55	0° ∡ ¹			-5261 Apr 15 j 10:19	0°©	
	-5266 Mar 03 j 01:30	ರ°0			-5261 Jun 11 j 16:59	$0^{\circ}\Omega$	
	-5266 Apr 14 j 04:15	0° ≈		desc. node	-5261 Jun 24 j 02:02	8° Ω 04'36	
	-5266 May 29 j 10:58	0°) €			-5261 Jul 25 j 11:52	0° m)	
	-5266 Jul 19 j 08:48	0° Υ			-5261 Sep 03 j 19:28	0∘ <u>⊽</u>	
asc. node	-5266 Sep 21 j 22:02	25° Υ '50'14			-5261 Oct 13 j 03:18	0° M .	
retrograde	-5266 Oct 08 j 17:38	27° Y '31'19			-5261 Nov 21 j 20:09	0° ∡ 7	
opposition	-5266 Nov 17 j 13:30	17° Υ 53'17	2°03'30		-5260 Jan 01 j 19:42	0°ਰ	
greatest brilliancy	-5266 Nov 17 j 13:02	17° Υ 53'45	-1.3m	evening set	-5260 Feb 13 j 23:04	0°≈15'38	
min. Earth dist.	-5266 Nov 17 j 22:30	17° Υ 44'17	0.67049 AU	evening set	-5260 Feb 13 j 13:57	0° ≈	
direct	-5266 Dec 28 j 04:50	8° Υ 03'11	0.07047710		-5260 Mar 29 j 05:11	0° ₩	
direct	-5265 Mar 10 j 07:19	0°8			-3200 Wiai 29 j 03.11	0 /	
	-5265 May 02 j 23:53	0°II		conjunction	-5260 Apr 06 j 11:20	5° ¥ 25'45	0°21'01
	-5265 Jun 18 j 08:32	0°©		minimum elong	-5260 Apr 06 j 12:14	5° ∺ 27'14	
				•			
	-5265 Jul 30 j 20:16	0° N		max. Earth dist.	-5260 Apr 22 j 12:15		2.63296 AU
	-5265 Sep 08 j 20:05	0°M) 70 M; ∈7!44		asc. node	-5260 May 13 j 17:00	29° ¥ 33'37 0° Ƴ	
desc. node	-5265 Sep 19 j 04:07	7° Mp 57'44			-5260 May 14 j 09:28		
evening set	-5265 Oct 13 j 23:02	27° Tp 17'49		morning rise	-5260 May 25 j 12:40	7° ℃ 07'19	
	-5265 Oct 17 j 09:40	0∘ 亚			-5260 Jun 30 j 14:07	0° B	
	-5265 Nov 24 j 12:46	0°M₊			-5260 Aug 17 j 10:28	0°II	
	50(5 D 15:01 15	1000 10111	0056100		-5260 Oct 05 j 06:13	0°©	
conjunction	-5265 Dec 17 j 21:17	18°M13'41			-5260 Nov 26 j 02:08	0° N	
minimum elong	-5265 Dec 17 j 18:11	18° ™ 07'39	0°56'33		-5259 Feb 05 j 20:32	0° m)	
	-5264 Jan 02 j 03:46	0° ∡		retrograde	-5259 Feb 23 j 21:47	1° Mp 54'42	
max. Earth dist.	-5264 Feb 03 j 10:44		2.41698 AU		-5259 Mar 13 j 12:58	30°R Ω	
	-5264 Feb 11 j 02:22	0° ろ		opposition	-5259 Mar 27 j 22:45	26° Ω 09'12	
morning rise	-5264 Feb 21 j 15:23	7° る 41'56		greatest brilliancy	-5259 Mar 28 j 20:48	25° Ω 52'29	
	-5264 Mar 23 j 23:48	0° ≈		min. Earth dist.	-5259 Apr 04 j 02:36		0.42133 AU
	-5264 May 07 j 07:08	0° ∀		direct	-5259 May 01 j 08:49	19° Ω 22'34	
	-5264 Jun 23 j 12:00	0° Y		desc. node	-5259 May 11 j 03:35	20° Ω 01'51	
asc. node	-5264 Aug 08 j 23:08	27° Y ′05'45			-5259 Jun 12 j 14:02	0° m)	
	-5264 Aug 14 j 07:33	$0^{\circ}S$			-5259 Aug 03 j 17:49	0∘ ⊽	
	-5264 Oct 27 j 11:08	Π °0			-5259 Sep 16 j 09:41	0° M	
retrograde	-5264 Nov 13 j 00:15	1° Ⅲ 35′22			-5259 Oct 28 j 17:49	0° ∡ 7	
	-5264 Nov 28 j 16:56	30°₽ ႘			-5259 Dec 10 j 15:01	0°ප	
opposition	-5264 Dec 21 j 14:06	22° 8 40'57	4°18'16		-5258 Jan 23 j 19:01	0° ≈	
greatest brilliancy	-5264 Dec 22 j 02:56	22° 8 28'24	-1.4m		-5258 Mar 10 j 09:10	0°)	
min. Earth dist.	-5264 Dec 25 j 18:04	21° 8 03'22	0.64008 AU	evening set	-5258 Mar 29 j 08:53	12°) 16′29	
direct	-5263 Jan 31 j 18:13	12° 8 41'07		asc. node	-5258 Mar 31 j 12:33	13°) 39′35	
	-5263 Apr 02 j 10:15	$\Pi^{\circ}0$			-5258 Apr 26 j 00:24	0 ° Υ	
	-5263 May 25 j 06:47	0 \circ \odot					
	-5263 Jul 08 j 14:07	$0^{\circ}\Omega$		conjunction	-5258 May 16 j 16:01	13° Ƴ 10′52	0°25'25
desc. node	-5263 Aug 06 j 02:09	20° Q 50′20		minimum elong	-5258 May 16 j 15:07	13° Y 09'26	0°25'28
	-5263 Aug 18 j 05:55	0° m y		max. Earth dist.	-5258 May 16 j 22:40	13° Y 21'28	2.66942 AU
	-5263 Sep 26 j 02:56	0∘ ⊽			-5258 Jun 12 j 00:27	9° 8	
	-5263 Nov 03 j 11:33	0° M .		morning rise	-5258 Jul 01 j 14:38	12° 8 32'40	
	-5263 Dec 12 j 08:40	0° ∡ ¹			-5258 Jul 28 j 16:55	$\Pi^{\circ}0$	
evening set	-5263 Dec 19 j 22:35	5° ∡ ¹44'42			-5258 Sep 12 j 16:49	0 ° \mathfrak{S}	
-	-5262 Jan 21 j 14:11	ರ∘ರ			-5258 Oct 28 j 01:20	$0^{\circ}\Omega$	
					-5258 Dec 12 j 04:32	0° m)	
conjunction	-5262 Feb 18 j 03:38	19° る 47'40	-1°01'57		-5257 Jan 27 j 04:53	0∘ ⊽	
minimum elong	-5262 Feb 18 j 05:26	19° ප් 50'51			-5257 Mar 19 j 10:42	0° M .	
Č	-5262 Mar 04 j 17:07	0° ≈		desc. node	-5257 Mar 29 j 07:05	4°M45'42	
max. Earth dist.	-5262 Mar 25 j 03:50	14° ≈ 02'42	2.54404 AU	retrograde	-5257 May 13 j 17:56	16°M35'34	
morning rise	-5262 Apr 14 j 23:23	28° ≈ 01'41		min. Earth dist.	-5257 Jun 09 j 23:34		0.38756 AU
5	-5262 Apr 17 j 22:42	0°) €		opposition	-5257 Jun 14 j 16:16	10°M49'12	
	r , j ==2			11			-

,	ical year style is used: Th		•	//	5400 BCE in historical co	, ,	2 13
greatest brilliancy	-5257 Jun 13 j 17:51	11°ML04'57		conjunction	-5252 Sep 17 j 21:28	16° Ω 28'42	0°41'06
direct	-5257 Jul 14 j 15:17	5°M39'46	2.0111	minimum elong	-5252 Sep 17 j 23:36	16° Ω 32'43	
ancet	-5257 Sep 24 j 15:16	0° ∡ 7		minimum crong	-5252 Oct 05 j 18:41	0° m)	0 11 17
	-5257 Nov 14 j 19:23	°ਤ ਹ°ਤ			-5252 Nov 13 j 15:17	0∘ ⊽	
	-5256 Jan 01 j 21:05	0° ≈		morning rise	-5252 Nov 15 j 19:10	° - 1° - 41′08	
asc. node	-5256 Feb 16 j 08:48	0 ~ 28° ≈ 35'15		desc. node	-5252 Nov 18 j 02:40	3° £ 29'24	
asc. Houc	-5256 Feb 18 j 14:48	0° ∺		desc. Hode	-5252 Nov 18 j 02:40 -5252 Dec 22 j 00:43	0°M₁	
	-5256 Apr 06 j 09:17	0° Υ			-5251 Jan 29 j 19:45	0° ⊼ ¹	
evening set	-5256 May 06 j 16:08	19° Ƴ 07'18			-5251 Mar 10 j 22:12	0°ਤ	
evening set	-5256 May 23 j 18:22	0°8			-5251 Mar 10 j 22:12 -5251 Apr 22 j 07:52	0°≈	
max. Earth dist.	-5256 Jun 09 j 01:50	_	2.65149 AU		-5251 Apr 22 j 07.32	0° ∺	
max. Earm dist.	-3230 Juli 09 J 01.30	10 02/41	2.03149 AU		-5251 Aug 01 j 17:37	0°Υ	
conjunction	-5256 Jun 22 j 12:08	19° 8 08'56	100015	retrograde	• •	14° Υ 33'15	
•	·			•	-5251 Sep 25 j 06:41	13° Y 22'50	
minimum elong	-5256 Jun 22 j 10:55	19° 8 06'58	1-00-27	asc. node	-5251 Oct 08 j 12:38		0.66510 ATT
	-5256 Jul 09 j 02:53	0°II		min. Earth dist.	-5251 Nov 03 j 05:31		0.66518 AU
morning rise	-5256 Aug 07 j 06:17	19° Ⅱ 21'18		opposition	-5251 Nov 04 j 07:36	4° Υ 44'29	1°00'31
	-5256 Aug 23 j 00:10	0°©		greatest brilliancy	-5251 Nov 04 j 06:07	4° Υ 45'58	-1.4m
	-5256 Oct 05 j 08:10	$\mathfrak{O}^{\circ}\mathfrak{O}$			-5251 Nov 16 j 18:19	30° ₹ ₩	
	-5256 Nov 16 j 07:29	0° m)		direct	-5251 Dec 14 j 08:41	25°) €06'25	
	-5256 Dec 27 j 08:19	0∘ ⊽			-5250 Jan 13 j 16:33	0° Υ	
	-5255 Feb 06 j 03:31	0° M			-5250 Mar 21 j 18:36	0°8	
desc. node	-5255 Feb 13 j 07:46	5°MJ14′02			-5250 May 11 j 12:25	Π $^{\circ}$ 0	
	-5255 Mar 20 j 02:04	0° ∡ 7			-5250 Jun 26 j 02:23	0ංම	
	-5255 May 05 j 19:27	0°ಕ			-5250 Aug 07 j 08:51	0 $^{\circ}\Omega$	
retrograde	-5255 Jul 10 j 14:27	22° る 52'57			-5250 Sep 16 j 07:56	0° m)	
min. Earth dist.	-5255 Aug 09 j 07:09		0.49884 AU	evening set	-5250 Sep 18 j 18:05	1° m 51'38	
greatest brilliancy	-5255 Aug 15 j 18:41	14° る 29'58	-2.1m	desc. node	-5250 Oct 05 j 22:45	15° m 09'44	
opposition	-5255 Aug 17 j 03:36	13° る 59'46	-5°22'22		-5250 Oct 24 j 22:02	0∘ ऌ	
direct	-5255 Sep 20 j 01:21	6° ප 45'01					
	-5255 Dec 02 j 05:52	0° ≈		conjunction	-5250 Nov 20 j 06:14	20° ≏ 43'33	-0°32'07
asc. node	-5254 Jan 03 j 08:20	17° ≈ 04'08		minimum elong	-5250 Nov 20 j 03:31	20° ≏ 38'13	0°32'10
	-5254 Jan 26 j 02:41	0° ∀			-5250 Dec 02 j 01:27	0° M	
	-5254 Mar 17 j 15:20	0 ° Υ		max. Earth dist.	-5250 Dec 08 j 00:28	4°M40'22	2.37863 AU
	-5254 May 05 j 03:45	9° 8			-5249 Jan 09 j 15:51	0°⊀	
evening set	-5254 Jun 14 j 14:17	25° 8 57'28		morning rise	-5249 Jan 26 j 19:58	13° ₰ 03'54	
	-5254 Jun 20 j 18:06	Π°			-5249 Feb 18 j 13:17	0°ರ	
max. Earth dist.	-5254 Jul 05 j 17:06	9° Ⅱ 55'36	2.58163 AU		-5249 Apr 01 j 10:36	0° ≈	
					-5249 May 15 j 22:31	0° ∀	
conjunction	-5254 Aug 01 j 14:58	28° Ⅱ 11'19	1°10'59		-5249 Jul 02 j 23:33	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	-5254 Aug 01 j 15:19	28° Ⅱ 11'55	1°11'17	asc. node	-5249 Aug 26 j 13:45	29° Ƴ 36'49	
	-5254 Aug 04 j 06:01	0ං වෙ			-5249 Aug 27 j 09:24	0°8	
	-5254 Sep 15 j 16:41	$0^{\circ}\Omega$		retrograde	-5249 Oct 30 j 10:37	18° 8 17'46	
morning rise	-5254 Sep 19 j 22:14	3° Ω 03'54		opposition	-5249 Dec 08 j 15:27	9° 8 03'35	3°31'25
Ü	-5254 Oct 26 j 09:52	0° m)		greatest brilliancy	-5249 Dec 08 j 21:33	8° 8 57'33	-1.4m
	-5254 Dec 04 j 22:47	0∘ <u>⊽</u>		min. Earth dist.	-5249 Dec 11 j 08:05	7° 8 59'41	0.65950 AU
desc. node	-5253 Jan 01 j 05:42	20° £ 57'19			-5248 Jan 06 j 16:53	30° R Υ	
4000. 11040	-5253 Jan 13 j 00:23	0°M		direct	-5248 Jan 18 j 19:04	29° Υ 03'26	
	-5253 Feb 21 j 12:03	0° ∡ 7			-5248 Jan 31 j 08:38	0°8	
	-5253 Apr 03 j 14:53	0°ප			-5248 Apr 15 j 15:24	0° I I	
	-5253 May 18 j 11:13	0° ≈			-5248 Jun 03 j 15:17	0°60	
	-5253 Jul 14 j 10:41	0° ₩			-5248 Jul 16 j 23:02	$0^{\circ}\Omega$	
retrograde	-5253 Aug 21 j 14:18	8° ₩ 19'14		desc. node	-5248 Aug 22 j 19:08	27° Ω 21'57	
min. Earth dist.	-5253 Sep 25 j 12:38	0°) 18′53	0.60877 AU	dese. Hode	-5248 Aug 26 j 06:04	0° m)	
mm. Earth dist.	-5253 Sep 26 j 07:43	30°R≈	0.00077 AC	greatest brilliancy	-5248 Oct 01 j 17:24	28° m) 15'40	1.2m
opposition	-5253 Sep 20 j 07:43	28°≈24'25	2005/07	greatest brilliancy	-5248 Oct 03 j 22:41	0° ⊽	1,2111
greatest brilliancy	-5253 Sep 30 j 07.45 -5253 Sep 29 j 23:55	28°≈32'10		greatest brilliancy	-5248 Oct 29 j 07:43	0 == 19° £ 55'42	1.2m
direct	-5253 Nov 06 j 23:21	28 ≈32 10 19°≈37'22	-1.0111	greatest brilliancy	-5248 Nov 11 j 03:58	0° M	1.2111
	·			avanina aat	-5248 Nov 24 j 01:19		
asc. node	-5253 Nov 21 j 10:28	20°≈52'02 0°¥		evening set	=	10°M03'51	
	-5253 Dec 22 j 23:12	0° ∀			-5248 Dec 19 j 21:28	0° ∡ 7	
	-5252 Feb 22 j 17:09	0° Ƴ			5047 I 06:11.00	200 710142	1909/20
	-5252 Apr 14 j 06:33	0°8		conjunction	-5247 Jan 26 j 11:22	28°×710'43	
	-5252 May 31 j 21:29	0°II		minimum elong	-5247 Jan 26 j 11:48		1°08'57
	-5252 Jul 15 j 12:50	0°9			-5247 Jan 28 j 22:56	0°る	
evening set	-5252 Jul 26 j 19:20	7°952'03		max. Earth dist.	-5247 Mar 10 j 05:52		2.49672 AU
max. Earth dist.	-5252 Aug 10 j 23:04	18°938'09	2.46891 AU	_	-5247 Mar 11 j 22:14	0° ≈	
	-5252 Aug 26 j 15:34	0 \circ Ω		morning rise	-5247 Mar 27 j 03:03	10°≈29'56	
					-5247 Apr 25 j 02:19	0° ℋ	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 16 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. $0^{\circ}\Upsilon$ -5247 Jun 10 j 13:21 direct -5242 Jun 13 j 09:20 5°**£**32'03 -5247 Jul 13 j 13:22 20°Y22'20 -5242 Aug 22 j 16:19 oom. asc. node -5247 Jul 29 j 16:26 0°8 -5242 Oct 10 j 16:29 0°×7 $0^{\circ}II$ 0°궁 -5247 Sep 22 j 00:43 -5242 Nov 25 j 15:31 -5247 Dec 08 j 02:55 24°**Ⅲ**20'40 -5241 Jan 10 j 14:00 retrograde 0°≈ 0°**)**€ opposition -5246 Jan 14 j 09:01 16°**Ⅲ**06′02 5°11'28 -5241 Feb 26 j 05:26 greatest brilliancy -5246 Jan 15 j 10:56 15°**Ⅱ**41'31 -1.6m asc. node -5241 Mar 05 j 01:07 4°**¥**20′55 $0^{\circ}\Upsilon$ min. Earth dist. -5246 Jan 20 j 19:19 13°**Ⅱ**40′25 0.59111 AU -5241 Apr 14 j 10:25 5°Y13'54 direct -5246 Feb 23 j 23:54 6°**Ⅲ**21'55 evening set -5241 Apr 22 j 16:25 -5246 May 06 j 01:11 0ಂತಾ -5241 May 31 j 14:24 0°8 -5246 Jun 23 j 06:16 $0^{\circ}\Omega$ max. Earth dist. -5241 May 31 j 16:35 0°**8**03'30 2.66491 AU desc. node -5246 Jul 10 j 19:18 12°**Ω**13'37 -5246 Aug 04 j 04:52 0° M conjunction -5241 Jun 08 j 19:12 5°**8**15'15 0°48'53 -5246 Sep 12 j 16:55 0∘**⊽** minimum elong -5241 Jun 08 j 17:53 5°**8**13'10 0°49'02 -5246 Oct 21 j 12:04 0°M -5241 Jul 17 j 00:31 $0^{\circ}\Pi$ -5246 Nov 29 j 18:26 0°**√** morning rise -5241 Jul 24 j 06:25 4°**Ⅱ**44'55 -5245 Jan 09 j 08:42 0°ರ -5241 Aug 31 j 05:54 0ಂತಾ evening set -5245 Jan 24 j 22:54 11°る11'09 -5241 Oct 14 j 04:14 0° Ω -5245 Feb 20 j 19:13 0°≈ -5241 Nov 26 j 00:10 0° m -5240 Jan 07 j 04:14 0∘**ত** conjunction -5245 Mar 21 j 01:59 19°≈15'07 -0°38'59 -5240 Feb 18 j 14:17 0°M minimum elong -5245 Mar 21 i 03:38 19°≈17'54 0°39'11 -5240 Mar 02 i 00:31 8°M34'17 desc. node -5245 Apr 06 i 05:02 0°**)**€ -5240 Apr 03 j 18:12 0°×7 max. Earth dist. -5245 Apr 13 i 02:59 4°**)**€33'43 2.60431 AU -5240 Jun 13 j 17:15 0°궁 morning rise -5245 May 11 j 06:28 22°\ 53'11 -5240 Jun 20 j 13:14 0°る20'19 retrograde -5245 May 22 j 08:09 $0^{\circ}\Upsilon$ -5240 Jun 27 j 07:58 30°R x⁷ -5245 May 31 j 09:32 5°**℃**47'03 -5240 Jul 18 j 06:14 25°**✗**11'05 0.44908 AU min. Earth dist. asc node -5245 Jul 08 j 19:09 -5240 Jul 24 j 15:29 0°8 greatest brilliancy 23° **₹**01'47 -2.4m $\mathbb{I}^{\circ 0}$ -5240 Jul 26 j 06:56 -5245 Aug 26 j 12:31 22°**₹**28'13 -6°13'05 opposition -5245 Oct 16 j 17:27 0000 -5240 Aug 27 j 11:36 16°**х** 03′43 direct -5240 Oct 19 j 03:33 -5245 Dec 17 j 00:32 0° Ω 0°ಕ -5244 Jan 29 j 09:55 9°**£**24'41 -5240 Dec 15 j 09:09 0°≈ retrograde -5244 Mar 03 j 02:39 2°**Ω**49'43 4°39'54 -5239 Jan 19 j 23:55 20°≈54'17 opposition asc. node -5244 Mar 04 j 14:46 -5239 Feb 04 j 03:26 0°**)**€ greatest brilliancy 2°**Ω**19'34 -2.3m $0^{\circ}\Upsilon$ -5239 Mar 25 j 06:19 -5244 Mar 11 j 15:04 30°R∽ 0°**Ω**01'44 0.47062 AU -5239 May 12 j 05:14 0°8 min. Earth dist. -5244 Mar 11 j 12:55 direct -5244 Apr 09 j 05:47 24°5946'59 evening set -5239 May 30 j 05:19 11°**8**29'56 -5244 May 08 j 00:30 $0^{\circ}\Omega$ max. Earth dist. -5239 Jun 24 j 18:40 28°**8**06'09 2.61492 AU desc. node -5244 May 27 j 21:20 8°**Ω**17'33 -5239 Jun 27 j 15:56 $0^{\circ}\Pi$ -5244 Jul 04 j 15:03 0° m -5244 Aug 17 j 05:00 0∘**⊽** conjunction -5239 Jul 16 j 10:19 12°**Ⅲ**27'53 1°10'37 -5244 Sep 27 j 04:54 0°M -5239 Jul 16 j 09:51 12°**Ⅲ**27′06 minimum elong 1°10'53 -5244 Nov 07 j 01:22 -5239 Aug 11 j 06:30 0ಂತಾ 0°×7 -5244 Dec 18 j 22:16 0°る -5239 Sep 01 j 18:45 14°956'36 morning rise -5239 Sep 23 j 00:04 -5243 Jan 31 j 09:10 0°≈ 0° Ω -5243 Mar 13 j 01:15 27°≈05'28 -5239 Nov 03 i 02:52 0° m evening set -5243 Mar 17 j 11:49 0°**)**€ -5239 Dec 13 i 02:28 0∘**⊽** asc. node -5243 Apr 17 j 04:18 19° **)** 54'50 desc. node -5238 Jan 18 j 00:23 27°**£**15'19 -5238 Jan 21 i 15:17 0°M -5243 May 01 j 14:57 29°**H**11'47 0°08'11 -5238 Mar 02 j 16:13 0°×7 conjunction -5243 May 01 j 14:38 29°**₩**11'16 0°08'09 -5238 Apr 13 j 18:36 0°궁 minimum elong -5243 Apr 30 j 21:20 28° **)** 43'33 -5238 May 31 j 16:18 behind sun begin 0°≈≈ behind sun end -5243 May 02 j 07:56 29°**)** 38'59 -5238 Aug 06 j 10:45 retrograde 22° 26'33 -5243 May 02 j 21:03 $0^{\circ}\Upsilon$ min. Earth dist. -5238 Sep 08 j 10:49 15°≈08'16 0.57110 AU -5243 May 07 j 16:25 -5238 Sep 14 j 15:08 max. Earth dist. 3°**Υ**04'45 2.66159 AU 12°≈43'32 -3°23'48 opposition 29° Y 04'13 morning rise -5243 Jun 17 j 10:06 greatest brilliancy -5238 Sep 13 j 22:46 12°**≈**59'31 -1.8m -5243 Jun 18 j 21:07 0°8 -5238 Oct 21 j 00:03 4°≈26'19 direct $0^{\circ}\Pi$ -5238 Dec 08 j 00:47 15°≈46'06 -5243 Aug 04 j 21:17 asc. node -5243 Sep 20 j 16:01 0ಂತಾ 0°) -5237 Jan 08 j 02:47 $0^{\circ}\Omega$ $0^{\circ}\Upsilon$ -5243 Nov 06 j 13:12 -5237 Mar 03 j 23:50 0° m 0°8 -5243 Dec 24 j 16:43 -5237 Apr 22 j 23:42 -5242 Feb 16 j 17:47 0∘**⊽** -5237 Jun 09 j 02:15 $0^{\circ}\Pi$ evening set retrograde -5242 Apr 13 j 08:18 15°**£**43'53 -5237 Jul 10 j 03:15 20°**Ⅱ**44′00 desc. node -5242 Apr 14 j 22:56 15°**£**42'52 -5237 Jul 23 j 15:03 0ಂತಾ opposition -5242 May 13 j 21:38 10°**2**39'14 -2°12'36 max. Earth dist. -5237 Jul 26 j 06:07 1°549'24 2.51671 AU greatest brilliancy -5242 May 13 j 21:01 10°**₽**39'38 -3.0m

-5237 Aug 29 j 15:41 26°5014'18 0°58'41

min. Earth dist.

-5242 May 14 j 11:36

10°**2**29'53 0.37817 AU

conjunction

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 17
Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

minimum elong -5237 Aug 29 j 17:28 26°\$\text{S17'31}\$ 0°58'57 -5232 Jun 18 j 05:02 0°\$\text{V}\$

	ical year style is used: Th	•		inting style is the year			
minimum elong	-5237 Aug 29 j 17:28	26° © 17'31	0°58'57		-5232 Jun 18 j 05:02	0° Y	
	-5237 Sep 03 j 19:58	0 $^{\circ}$ Ω		asc. node	-5232 Jul 30 j 04:09	25° Ƴ 08'37	
	-5237 Oct 14 j 03:40	0° m)			-5232 Aug 07 j 17:17	8° 0	
morning rise	-5237 Oct 22 j 23:30	6° Mp 42′49			-5232 Oct 07 j 21:09	Π°	
	-5237 Nov 22 j 05:29	0० ⊽		retrograde	-5232 Nov 21 j 18:46	9° Ⅱ 54'46	
desc. node	-5237 Dec 05 j 20:55	10° ≏ 35'34		opposition	-5232 Dec 29 j 22:54	1° Ⅱ 13'15	4°41'04
	-5237 Dec 30 j 19:53	0°M₊		greatest brilliancy	-5232 Dec 30 j 16:15		-1.5m
	-5236 Feb 07 j 19:22	0° ⊼ 7		8	-5231 Jan 02 j 02:34	30°R₩	
	-5236 Mar 19 j 03:18	°ਰ ਹ°ਰ		min. Earth dist.	-5231 Jan 03 j 22:56	29° 8 17'16	0.62526 AU
	-5236 May 01 j 01:23	0° ≈		direct	-5231 Feb 09 j 00:42	21° 8 16'31	0.02320710
	-5236 Jun 17 j 23:44	0° ∺		direct	-5231 Mar 21 j 13:06	0° Ⅱ	
	-	0°Υ			·	0°©	
	-5236 Aug 28 j 20:02	0 γ 1° Υ 12'51			-5231 May 18 j 15:36	0° U	
retrograde	-5236 Sep 11 j 18:05				-5231 Jul 02 j 23:04		
	-5236 Sep 25 j 02:37	30° ₹		desc. node	-5231 Jul 27 j 12:42	17° Ω 42'52	
min. Earth dist.	-5236 Oct 19 j 06:22	22° ★ 18'53	0.65030 AU		-5231 Aug 13 j 00:02	0° m)	
opposition	-5236 Oct 21 j 19:38	21° ∺ 17'19			-5231 Sep 21 j 01:32	0∘ ⊽	
greatest brilliancy	-5236 Oct 21 j 19:28	21° ∺ 17'29	-1.5m		-5231 Oct 29 j 13:11	0° M	
asc. node	-5236 Oct 25 j 03:01	19° ¥ 58′02			-5231 Dec 07 j 12:39	0° ∡ ¹	
direct	-5236 Nov 30 j 01:51	11° ¥ 55′28		evening set	-5230 Jan 02 j 14:18	19° ∡ ³32'41	
	-5235 Feb 02 j 12:10	0 ° Υ			-5230 Jan 16 j 20:00	0°ප	
	-5235 Mar 31 j 09:23	0° 8			-5230 Feb 28 j 00:22	0°≈	
	-5235 May 19 j 11:52	$\Pi^{\circ}0$					
	-5235 Jul 03 j 14:15	0°©		conjunction	-5230 Mar 01 j 22:22	1° ≈ 19'46	-0°54'49
	-5235 Aug 14 j 18:00	$0^{\circ}\Omega$		minimum elong	-5230 Mar 02 j 00:22	1° ≈ 23'14	0°55'03
evening set	-5235 Aug 26 j 22:52	9° Ω 00'42		max. Earth dist.	-5230 Apr 01 j 13:37	22° ≈ 12'28	2.56730 AU
max. Earth dist.	-5235 Sep 23 j 06:43	29°Ω38'55	2.39610 AU		-5230 Apr 13 j 05:59	0°) €	
man. Bartir dist.	-5235 Sep 23 j 17:44	0° m)	2.59010110	morning rise	-5230 Apr 24 j 22:26	7°) 42′24	
desc. node	-5235 Oct 22 j 17:34	22° m/26'35		morning rise	-5230 May 29 j 09:39	0° Υ	
dese. Hode	3233 Oct 22 j 17.54	22 11/2033		asc. node	-5230 Jun 17 j 01:58	11° Υ ′50'02	
conjunction	-5235 Oct 24 j 15:30	23° m 56'18	0001126	asc. node	-5230 Jul 16 j 06:41	0°8	
	-5235 Oct 24 j 15:30	23° m 56'06	0°01'23		-5230 Sep 04 j 08:05	0°II	
minimum elong	-		0.01.23		1 3		
behind sun begin	-5235 Oct 23 j 13:04	23° Mp 04'40		. 1	-5230 Oct 30 j 01:03	0.22	
behind sun end	-5235 Oct 25 j 17:44	24° m/47'33		retrograde	-5229 Jan 06 j 19:26	20°520'02	5010146
	-5235 Nov 01 j 09:21	0∘ ⊽		opposition	-5229 Feb 11 j 02:58	13°900'31	5°19'46
	-5235 Dec 09 j 14:05	0° M ₊		greatest brilliancy	-5229 Feb 12 j 15:52	12° © 27'41	-2.0m
morning rise	-5235 Dec 29 j 15:35	15° M ₄40'04		min. Earth dist.	-5229 Feb 19 j 07:12	10° © 06'25	0.52159 AU
	-5234 Jan 17 j 05:08	0° ∡ ¹		direct	-5229 Mar 22 j 03:03	4° © 03'11	
	-5234 Feb 26 j 02:52	ರ∘ರ			-5229 Jun 02 j 20:28	$0 ^{\circ} \Omega$	
	-5234 Apr 09 j 02:13	0° ≈		desc. node	-5229 Jun 14 j 12:56	7° Ω 05'15	
	-5234 May 23 j 23:07	0° ℋ			-5229 Jul 18 j 18:46	0° m ∕	
	-5234 Jul 12 j 10:30	0 ° Υ			-5229 Aug 28 j 20:44	0∘ ত	
asc. node	-5234 Sep 12 j 04:48	29° Y ′02'30			-5229 Oct 07 j 14:54	0° M ₊	
	-5234 Sep 15 j 04:32	$_{0\circ}$ 8			-5229 Nov 16 j 15:09	0° ∡ ¹	
retrograde	-5234 Oct 16 j 13:01	5° 8 20'42			-5229 Dec 27 j 20:20	0° ප	
	-5234 Nov 14 j 07:50	30° ŖƳ			-5228 Feb 08 j 19:04	0° ≈	
opposition	-5234 Nov 25 j 04:50	25° Y ′50′21	2°37'30	evening set	-5228 Feb 24 j 13:27	10° ≈ 42'09	
greatest brilliancy	-5234 Nov 25 j 06:05	25° Y ′49′06	-1.3m	C	-5228 Mar 24 j 13:03	0° ₩	
min. Earth dist.	-5234 Nov 26 j 09:49	25° Ƴ 21'27	0.66941 AU		J		
direct	-5233 Jan 05 j 02:11	15° Y ′55′23		conjunction	-5228 Apr 15 j 21:14	14°) 36′01	-0°10'16
	-5233 Mar 01 j 00:24	0°8		minimum elong	-5228 Apr 15 j 21:41	14°) 36′44	
	-5233 Apr 27 j 00:47	0°II		behind sun begin	-5228 Apr 15 j 05:58	14°) 11'15	0 10 22
	-5233 Jun 13 j 04:02	0°©		behind sun end	-5228 Apr 16 j 13:23	15° ₩ 02'13	
	-5233 Jul 25 j 22:29	0° U		max. Earth dist.	-5228 Apr 10 j 15:25 -5228 Apr 28 j 06:28	22° H 36'42	2.64536 AU
		0° m)				26°\(\frac{1}{14}\)'51	2.04330 AU
4 4-	-5233 Sep 04 j 00:54			asc. node	-5228 May 03 j 21:57 -5228 May 09 j 18:06	20 π 1431 0° Υ	
desc. node	5222 C 00: 14.40						
	-5233 Sep 09 j 14:49	4° Mp 17'07					
	-5233 Oct 12 j 15:18	0∘ ⊽		morning rise	-5228 Jun 03 j 00:12	15° Ƴ 29'59	
evening set	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39	0° ჲ 12° ჲ 49'34		morning rise	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04	15° Y 29'59 0° と	
evening set	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39	0° ჲ 12° ჲ 49'34 0° ル		morning rise	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30	15° Y 29'59 0° と 0°耳	
evening set	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39	0° ჲ 12° ჲ 49'34		morning rise	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41	15°Y29'59 0° と 0°I 0°©	
	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39	0° Ω 12° Ω 49'34 0° ጤ 0° ᡘ		morning rise	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54	15°Y29'59 0°B 0°I 0°© 0°Ω	
conjunction	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39 -5232 Jan 02 j 03:03	0° <u>Ω</u> 12° <u>Ω</u> 49'34 0° M 0° 3° 3° 3° 49			-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54 -5227 Jan 12 j 02:26	15°Y29'59 0°႘ 0°Ⅲ 0°ಽ 0°Ω 0°୩	
	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39	0° <u>Ω</u> 12° <u>Ω</u> 49'34 0° M. 0° X 3° X 36'49 3° X 32'55		morning rise	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54	15°Y29'59 0°B 0°I 0°© 0°の	
conjunction	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39 -5232 Jan 02 j 03:03	0° <u>Ω</u> 12° <u>Ω</u> 49'34 0° M 0° 3° 3° 3° 49			-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54 -5227 Jan 12 j 02:26	15°Y29'59 0°႘ 0°Ⅲ 0°ಽ 0°Ω 0°୩	1°21'57
conjunction	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39 -5232 Jan 02 j 03:03 -5232 Jan 02 j 01:01	0° £ 12° £49'34 0° M 0° ⊀ 3° ₹36'49 3° ₹32'55 0° ₹ 9° ₹44'23		retrograde	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54 -5227 Jan 12 j 02:26 -5227 Mar 12 j 15:16	15°Y29'59 0°႘ 0°Ⅲ 0°೨ 0°೩ 0°୩ 16°№47'44	1°21'57 -2.8m
conjunction minimum elong	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39 -5232 Jan 02 j 03:03 -5232 Jan 02 j 01:01 -5232 Feb 06 j 08:01	0° ₽ 12° ₽49'34 0° M 0° ₹ 3° ₹36'49 3° ₹32'55 0° ₹	1°04'50	retrograde opposition	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54 -5227 Jan 12 j 02:26 -5227 Mar 12 j 15:16 -5227 Apr 12 j 19:11	15°Y29'59 0°℧ 0°ℿ 0°郖 0°Ω 0°吶 16°吶47'44 11°吶26'33	
conjunction minimum elong max. Earth dist.	-5233 Oct 12 j 15:18 -5233 Oct 28 j 22:39 -5233 Nov 19 j 18:39 -5233 Dec 28 j 09:39 -5232 Jan 02 j 03:03 -5232 Jan 02 j 01:01 -5232 Feb 06 j 08:01 -5232 Feb 19 j 16:37	0° £ 12° £49'34 0° M 0° ⊀ 3° ₹36'49 3° ₹32'55 0° ₹ 9° ₹44'23	1°04'50	retrograde opposition greatest brilliancy	-5228 Jun 03 j 00:12 -5228 Jun 25 j 20:04 -5228 Aug 12 j 07:30 -5228 Sep 29 j 05:41 -5228 Nov 17 j 15:54 -5227 Jan 12 j 02:26 -5227 Mar 12 j 15:16 -5227 Apr 12 j 19:11 -5227 Apr 13 j 04:06	15°Y29'59 0°℧ 0°ℿ 0°郖 0°Ω 0°吶 16°吶47'44 11°吶26'33 11°吶20'13	-2.8m

direct

-5227 May 15 j 13:43

5° Mg 24′00

-5232 May 02 j 09:12

0°**)**

Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5227 Jul 23 j 16:49 0∘**⊽** -5222 Aug 11 j 07:55 8°906'55 1°08'30 conjunction -5227 Sep 08 j 16:26 0°M -5222 Aug 11 j 08:49 8°908'28 1°08'48 minimum elong -5227 Oct 22 j 09:29 0°×7 -5222 Sep 11 j 00:58 $0^{\circ}\Omega$ 0°궁 -5227 Dec 05 j 00:59 -5222 Oct 01 j 02:36 14°**Ω**41'36 morning rise -5222 Oct 21 j 14:57 -5226 Jan 18 j 16:34 0°≈ 0° m 0∘**⊽** -5226 Mar 05 j 13:46 0°**)** -5222 Nov 29 j 23:33 asc. node -5226 Mar 21 j 17:18 10°**)** 23′49 desc. node -5222 Dec 22 j 16:33 17°**△**31'18 evening set -5226 Apr 07 j 09:07 21°**)** 04'01 -5221 Jan 07 j 20:19 0°M $0^{\circ}\Upsilon$ -5226 Apr 21 j 09:00 -5221 Feb 16 j 02:10 0°**∡**7 max. Earth dist. -5226 May 22 j 07:56 19°**Ƴ**43'50 2.67007 AU -5221 Mar 28 j 19:13 0°궁 -5221 May 11 j 15:37 0°≈ 21° **Y**31'53-5221 Jul 02 j 07:03 conjunction -5226 May 25 j 03:41 0°34'42 0°**)**€ $21^{\circ} \mathbf{\Upsilon} 30'06$ minimum elong -5226 May 25 j 02:33 0°34'46 retrograde -5221 Aug 29 j 21:31 17° X 14'30 -5226 Jun 07 j 09:55 0°8 min. Earth dist. -5221 Oct 04 j 19:19 8°**¥**53'17 0.62615 AU morning rise -5226 Jul 09 j 19:30 20°849'04 opposition -5221 Oct 08 j 19:13 7°**升**17'21 -1°20'41 -5226 Jul 23 j 23:34 $0^{\circ}II$ greatest brilliancy -5221 Oct 08 j 15:04 7°**¥**21′30 -1.6m -5226 Sep 07 j 15:58 0ಂತಾ -5221 Oct 30 j 20:39 -5226 Oct 22 j 10:03 $0^{\circ}\Omega$ asc. node -5221 Nov 11 j 16:24 28°≈23'39 -5226 Dec 05 j 12:48 0° m direct -5221 Nov 16 j 01:54 28°≈16'12 -5225 Jan 18 j 15:57 0∘**ত** -5221 Dec 03 j 07:42 0°) -5225 Mar 05 j 17:06 $0^{\circ}M$ -5220 Feb 15 j 23:01 $0^{\circ}\Upsilon$ desc. node -5225 Mar 19 j 16:58 8°M23'19 -5220 Apr 08 j 22:51 0°8 -5225 May 05 i 06:58 0°×7 -5220 May 27 j 01:06 $0^{\circ}II$ -5225 May 29 i 00:41 3°**х** 40′57 -5220 Jul 10 j 20:37 0ಂತಾ retrograde -5225 Jun 21 j 17:36 30°RM -5220 Aug 06 j 12:52 18°9547'35 evening set -5225 Jun 24 j 17:05 29°M09'01 0.40505 AU -5220 Aug 22 j 00:04 min. Earth dist. $0^{\circ}\Omega$ -5225 Jun 29 j 21:20 -5220 Aug 23 j 02:12 27°M-36'05 -2.7m max Earth dist 0°**Ω**47'48 2.44182 AU greatest brilliancy -5225 Jul 01 j 06:32 27°M-11'00 -6°04'30 opposition -5220 Sep 30 j 09:35 -5225 Jul 31 j 22:13 21°M39'02 conjunction 29°**Ω**27'50 0°27'32 direct -5225 Sep 08 j 11:53 -5220 Sep 30 j 11:22 0°×7 minimum elong 29°**Ω**31'15 0°27'41 0°정 -5220 Oct 01 j 02:27 -5225 Nov 06 j 20:12 0° m -5220 Nov 08 j 12:37 -5225 Dec 26 j 20:38 0°≈ 29° m 42'52 desc. node 25°≈47'24 -5224 Feb 06 j 15:10 -5220 Nov 08 j 21:23 0∘ಹ asc. node -5224 Feb 13 j 10:03 0°**∀** -5220 Dec 01 j 01:23 17°**£**21'12 morning rise $0^{\circ}\Upsilon$ -5220 Dec 17 j 04:57 -5224 Apr 01 j 14:14 0°M 27°**Y**29'10 evening set -5224 May 15 j 04:58 -5219 Jan 24 j 21:58 0° ×7 -5224 May 19 j 03:44 0°8 -5219 Mar 05 j 21:25 0°궁 max. Earth dist. -5224 Jun 14 j 17:27 17°**8**04'12 2.64066 AU -5219 Apr 17 j 01:08 0°≈ -5219 Jun 01 j 13:32 0°**)**€ conjunction -5224 Jul 01 j 01:14 27°842'34 1°05'14 -5219 Jul 23 j 16:29 $0^{\circ}\Upsilon$ -5224 Jul 01 j 00:13 27°**8**40'54 1°05'29 -5219 Sep 28 j 18:19 22°Y21'27 minimum elong asc. node -5224 Jul 04 j 12:58 $\mathbb{I}^{\circ 0}$ -5219 Oct 03 j 00:42 22°Y28'22 retrograde -5224 Aug 16 j 04:56 28°**Ⅲ**33′02 -5219 Nov 11 j 23:20 12°**Y**45'11 morning rise opposition 1°37'52 -5224 Aug 18 j 07:56 0ಂತಾ -5219 Nov 11 j 22:05 12°**Y**46′27 greatest brilliancy -1.4m -5224 Sep 30 j 10:21 12°Y51'35 0.66936 AU $0^{\circ}\Omega$ min. Earth dist. -5219 Nov 11 j 16:57 2°Y59'46 -5224 Nov 11 i 01:31 0° m direct -5219 Dec 22 i 08:54 -5224 Dec 21 i 15:36 0°Ω -5218 Mar 14 j 16:56 0°8 -5223 Jan 30 j 21:06 0°M -5218 May 06 i 01:25 $0^{\circ}II$ desc. node -5223 Feb 03 i 17:11 2°M50'54 -5218 Jun 21 j 03:13 0ಂತಾ -5223 Mar 12 j 21:08 0°×7 -5218 Aug 02 j 13:46 $0^{\circ}\Omega$ -5223 Apr 26 j 01:05 0°궁 -5218 Sep 11 j 14:08 O° m -5223 Jun 24 j 03:21 -5218 Sep 26 j 08:16 11° m 23'03 0°≈≈ desc. node -5223 Jul 20 j 21:48 -5218 Oct 02 j 17:06 16° m) 20'05 retrograde 4°≈37'33 evening set -5223 Aug 15 j 12:59 30°Rる -5218 Oct 20 j 04:11 0∘**⊽** 0° M min. Earth dist. -5223 Aug 20 j 19:22 28°る07'47 0.52624 AU -5218 Nov 27 j 07:14 greatest brilliancy -5223 Aug 27 j 01:33 25°る46'22 -2.0m -5223 Aug 28 j 04:28 25°**ට**20'57 -4°41'43 conjunction -5218 Dec 05 j 20:21 6°M41'53 -0°47'10 opposition -5223 Oct 02 j 01:27 17°**ප්**41'21 6°MJ35'20 0°47'18 direct minimum elong -5218 Dec 05 j 17:00 -5223 Nov 20 j 23:29 0°≈ -5217 Jan 04 j 21:23 0° ×7 9°**∡**01'14 2.39621 AU asc. node -5223 Dec 24 j 15:11 15°**≈**57'39 max. Earth dist. -5217 Jan 16 j 17:02 0°**)**€ -5222 Jan 19 j 15:56 morning rise -5217 Feb 10 j 18:56 27°**х** 48′24 $0^{\circ}\Upsilon$ -5222 Mar 12 j 09:08 -5217 Feb 13 j 18:18 0°궁 -5222 Apr 30 j 08:39 0°8 -5217 Mar 27 j 14:15 0°≈ -5222 Jun 16 j 03:16 $0^{\circ}II$ -5217 May 10 j 21:33 0°**)**€ evening set -5222 Jun 23 j 14:53 4°**I**156'11 -5217 Jun 27 j 08:03 $0^{\circ}\Upsilon$ -5222 Jul 12 j 16:05 17°**II**41'35 2.56046 AU 28°**Y**45'11 max. Earth dist. asc. node -5217 Aug 16 j 20:00

-5217 Aug 19 j 05:40

0°8

-5222 Jul 30 j 16:00

0ಂತಾ

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:22, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5217 Nov 07 j 16:45 26°**8**18'15 -5211 Mar 12 j 18:34 0°) retrograde -5217 Dec 16 j 14:07 17°**8**14'39 3°59'23 -5211 Mar 22 j 12:08 6°¥19'44 opposition evening set -5217 Dec 16 j 23:48 17°**8**05'07 -5211 Apr 07 j 10:10 16°**₩**37'07 greatest brilliancy -1 4m asc. node min. Earth dist. -5211 Apr 28 j 06:26 $0^{\circ}\Upsilon$ -5217 Dec 20 j 02:41 15°**8**51'36 0.65003 AU direct -5216 Jan 26 j 19:08 7°**8**13'48 -5216 Apr 07 j 19:31 -5211 May 10 j 07:17 7°**Υ**41'50 $0^{\circ}II$ conjunction 0°18'21 7°**Ƴ**40'44 0ಂಣ -5211 May 10 j 06:36 -5216 May 28 j 19:45 minimum elong 0°18'21 9°**Y**30'12 $0^{\circ}\Omega$ -5211 May 13 j 03:10 -5216 Jul 11 j 17:21 max. Earth dist. 2.66696 AU desc. node -5216 Aug 13 j 06:10 23°**Ω**56'51 -5211 Jun 14 j 06:07 0°8 -5216 Aug 21 j 06:03 0° M morning rise -5211 Jun 25 j 13:38 7°**8**13'28 -5216 Sep 29 j 01:13 0∘**⊽** -5211 Jul 31 j 01:58 $0^{\circ}\Pi$ -5211 Sep 15 j 09:57 -5216 Nov 06 j 07:57 0° M 0ಂತಾ 25°M15'22 -5211 Oct 31 j 08:58 evening set -5216 Dec 08 j 21:49 0° Ω -5216 Dec 15 j 02:40 0°**√** -5211 Dec 16 j 14:24 0° m -5215 Jan 24 j 05:05 0°ರ -5210 Feb 02 j 21:41 0∘**⊽** desc. node -5210 Apr 05 j 10:19 29°**₽**31'28 conjunction -5215 Feb 08 j 15:49 11°る12'21 -1°05'50 -5210 Apr 07 j 01:50 0°M minimum elong -5215 Feb 08 j 17:13 11°る14'53 1°06'08 retrograde -5210 Apr 30 j 21:23 3° M $_{3}2'03$ -5215 Mar 07 j 05:04 -5210 May 25 j 05:52 max. Earth dist. -5215 Mar 19 j 03:14 8°≈15'04 2.52359 AU min. Earth dist. -5210 May 29 j 10:34 28°**£**53'24 0.37933 AU 21°**≈**09'57 morning rise -5215 Apr 07 j 03:08 opposition -5210 May 31 j 23:41 28° **△**12'07 -4°07'02 -5215 Apr 20 j 08:28 0°) greatest brilliancy -5210 May 31 j 12:15 28°**♀**19'50 -2.9m -5215 Jun 05 i 15:17 $0^{\circ}\Upsilon$ direct -5210 Jun 30 i 20:17 23°**£**11'25 asc. node -5215 Jul 03 i 18:34 17° **Y**34'59 -5210 Aug 03 j 21:30 0°M -5215 Jul 24 j 04:06 0°8 -5210 Oct 01 j 18:03 0°×7 -5215 Sep 14 j 09:49 $0^{\circ}II$ -5210 Nov 19 j 01:06 0°궁 -5215 Nov 22 j 14:57 0ಂತಾ -5209 Jan 05 j 00:33 0°≈ -5215 Dec 18 j 06:24 -5209 Feb 21 j 05:08 0°\ 3°2636'19 retrograde -5214 Jan 11 j 04:05 -5209 Feb 23 j 06:30 1° ¥ 18'06 30°R∏ asc node -5214 Jan 23 j 21:45 25°**II**39'28 5°21'14 $0^{\circ}\Upsilon$ opposition -5209 Apr 09 j 17:11 13°**Y**39'31 greatest brilliancy -5214 Jan 25 j 04:20 -5209 May 01 j 07:31 25°**Ⅱ**11'03 -1.7m evening set -5214 Jan 31 j 01:20 -5209 May 27 j 00:02 min. Earth dist. 23°**I**00′21 0.56839 AU 0°8 -5214 Mar 05 j 02:25 16°**Ⅲ**07'37 max. Earth dist. -5209 Jun 06 j 03:57 6°**8**30'28 2.65860 AU direct -5214 Apr 25 j 09:08 0ಂತಾ -5214 Jun 16 j 09:58 $0^{\circ}\Omega$ -5209 Jun 17 j 05:01 conjunction 13°**8**37'04 0°55'51 -5214 Jul 01 j 06:00 9°**Ω**59'49 -5209 Jun 17 j 03:43 desc. node minimum elong 13°**8**34'59 0°56'02 -5214 Jul 29 j 07:44 -5209 Jul 12 j 09:43 0° M Π $^{\circ}0$ -5214 Sep 07 j 06:06 0∘**⊽** morning rise -5209 Aug 01 j 18:19 13°**Ⅲ**25'55 -5214 Oct 16 j 07:31 0° M -5209 Aug 26 j 11:16 0ಂತಾ -5214 Nov 24 j 18:40 0°**√** -5209 Oct 09 j 01:59 $0^{\circ}\Omega$ -5213 Jan 04 j 12:35 0°ರ -5209 Nov 20 j 10:29 0° m -5213 Feb 05 j 13:44 22°る43'07 -5209 Dec 31 j 22:20 0∘**ত** evening set -5213 Feb 16 j 01:59 -5208 Feb 11 j 07:42 0°M 0°≈ -5208 Feb 21 j 11:49 7°M16'30 desc. node -5213 Mar 31 j 04:27 29°≈05'26 -0°28'44 -5208 Mar 25 j 06:03 conjunction 0°**∡**7 -5213 Mar 31 i 05:42 minimum elong 29°≈07'30 0°28'54 -5208 May 14 j 10:03 0°정 -5213 Apr 01 i 13:26 0°**∀** retrograde -5208 Jul 02 i 07:03 13°る58'47 max. Earth dist. -5213 Apr 19 j 08:04 11°**)**(40'22 2.62115 AU min. Earth dist. -5208 Jul 31 i 00:41 8°る22'13 0.47629 AU -5213 May 17 j 16:15 $0^{\circ}\Upsilon$ greatest brilliancy -5208 Aug 06 j 14:11 6°る02'45 -2.3m -5213 May 20 j 03:02 1°Y34'13 -5208 Aug 08 j 02:56 5°₹30'03 -5°48'52 morning rise opposition -5213 May 21 j 14:29 2°Y30'59 -5208 Aug 27 j 00:13 30°R*X* asc. node -5213 Jul 03 j 22:44 0°8 -5208 Sep 10 j 06:16 28°**₹**37'08 direct $\mathbb{I}^{\circ 0}$ -5208 Sep 25 j 05:39 0°궁 -5213 Aug 21 j 02:53 -5213 Oct 09 j 19:11 0ಂತಾ -5208 Dec 07 j 13:17 0°≈ -5213 Dec 03 j 07:15 $0^{\circ}\Omega$ asc. node -5207 Jan 10 j 05:20 18°≈50'12 -5212 Feb 12 j 20:17 22°**Ω**05′50 -5207 Jan 29 j 08:11 0°**)**€ retrograde $0^{\circ}\Upsilon$ -5212 Mar 16 j 15:10 15°**Ω**58'12 3°50'24 -5207 Mar 20 j 05:13 opposition -5212 Mar 17 j 21:05 -5207 May 07 j 12:00 0°8 greatest brilliancy 15°**Ω**34'26 -2.5m 0.44240 AU -5207 Jun 07 j 23:23 20°**8**08'32 min. Earth dist. -5212 Mar 24 j 14:29 13°**Ω**27'14 evening set -5207 Jun 23 j 01:33 direct -5212 Apr 21 j 07:28 8°**Ω**35'47 $0^{\circ}\Pi$ -5207 Jul 01 j 00:29 desc. node -5212 May 18 j 06:55 13°**Ω**14'28 max. Earth dist. 5°**Ⅱ**15'12 2.59749 AU -5212 Jun 23 j 15:16 0° m -5212 Aug 09 j 12:49 0∘**⊽** conjunction -5207 Jul 25 j 13:24 21°**II**43'32 1°11'30 -5212 Sep 20 j 18:11 $0^{\circ}M$ minimum elong -5207 Jul 25 j 13:23 21°**II**43'30 1°11'47 -5212 Nov 01 j 07:45 0°⊀ -5207 Aug 06 j 15:43 0ಂತಾ -5212 Dec 13 j 16:04 0°る -5207 Sep 11 j 20:57 25°\$25'03 morning rise

-5211 Jan 26 j 10:52

0°≈

-5207 Sep 18 j 06:15

 $0^{\circ}\Omega$

•	nical year style is used: Th		•	, ·		, ,	• = 0
,	-5207 Oct 29 j 04:21			greatest brilliancy	-5202 Dec 03 j 01:27	3° 8 46'06	-1.4m
	-5207 Dec 07 j 22:11	0∘ ⊽		min. Earth dist.	-5202 Dec 04 j 22:51	3° 8 01'01	0.66514 AU
desc. node	-5206 Jan 08 j 10:11	24° ≙ 04'24			-5202 Dec 12 j 18:41	30° ₹ Υ	
	-5206 Jan 16 j 04:19	0° M		direct	-5201 Jan 12 j 23:07	23° Y 51'12	
	-5206 Feb 24 j 20:41	0° ∡ ¹			-5201 Feb 16 j 01:38	9° 8	
	-5206 Apr 07 j 06:33	8°0			-5201 Apr 20 j 14:03	Π °0	
	-5206 May 22 j 23:58	0° ≈			-5201 Jun 07 j 18:34	0 \circ	
	-5206 Jul 28 j 02:15	0°) €			-5201 Jul 20 j 21:25	0 $^{\circ}$ Ω	
retrograde	-5206 Aug 15 j 06:55	2° ₩ 07'59		desc. node	-5201 Aug 30 j 23:36	0° ™ 38'46	
	-5206 Sep 01 j 14:54	30° R ≈			-5201 Aug 30 j 03:19	0° ™	
min. Earth dist.	-5206 Sep 18 j 09:04	24° ≈ 25′26	0.59284 AU		-5201 Oct 07 j 19:20	0∘ ⊽	
opposition	-5206 Sep 23 j 18:54	22° ≈ 17'10	-2°38'13	evening set	-5201 Nov 13 j 06:41	28° ≏ 39'51	
greatest brilliancy	-5206 Sep 23 j 07:46	22° ≈ 28'11	-1.7m		-5201 Nov 14 j 23:34	0° M	
direct	-5206 Oct 30 j 21:20	13° ≈ 42'31			-5201 Dec 23 j 15:24	0° ∡	
asc. node	-5206 Nov 28 j 06:59	18° ≈ 08'51					
	-5206 Dec 29 j 20:23	0° ∀		conjunction	-5200 Jan 16 j 18:30	18° ∡ 15'54	
	-5205 Feb 26 j 00:57	0° Υ		minimum elong	-5200 Jan 16 j 17:54	18° ∡ 14'47	1°08'42
	-5205 Apr 17 j 21:52	0° 8			-5200 Feb 01 j 14:27	0° ろ	
	-5205 Jun 04 j 08:25	0°П		max. Earth dist.	-5200 Mar 02 j 11:56		2.47391 AU
	-5205 Jul 19 j 00:02	0°€			-5200 Mar 14 j 11:13	0° ≈	
evening set	-5205 Jul 20 j 00:44	0°542'45		morning rise	-5200 Mar 18 j 07:18	2°≈40'23	
max. Earth dist.	-5205 Aug 04 j 05:43	11° © 21'19	2.49076 AU		-5200 Apr 27 j 13:53	0°) €	
	-5205 Aug 30 j 04:47	0 \circ Ω			-5200 Jun 13 j 02:46	0°Υ	
	5005 G 00 : 20 24	70 0 40157	0040120	asc. node	-5200 Jul 20 j 10:37	22° Y 48'41	
conjunction	-5205 Sep 09 j 20:24	7° Ω 48'57			-5200 Aug 01 j 16:23	8°0	
minimum elong	-5205 Sep 09 j 22:29	7° Ω 52'48	0°49'53	. 1	-5200 Sep 27 j 00:00	0°П	
	-5205 Oct 09 j 10:46	0° Mp		retrograde	-5200 Nov 30 j 22:12	18° Ⅱ 27'27	4950154
morning rise	-5205 Nov 05 j 14:04	20° m/49'25		opposition	-5199 Jan 07 j 14:48	10° Ⅱ 00'11	4°59'54
4 4-	-5205 Nov 17 j 09:58	0∘ ⊽		greatest brilliancy	-5199 Jan 08 j 12:56	9° ∏ 39'01	-1.6m 0.60754 AU
desc. node	-5205 Nov 26 j 07:15	6° £ 55'12 0° I L		min. Earth dist.	-5199 Jan 13 j 10:24 -5199 Feb 17 j 11:51	7° П 46'51 0° П 08'55	0.60754 AU
	-5205 Dec 25 j 21:20 -5204 Feb 02 j 17:40	0° ⊼		direct	-5199 Feb 1/ J 11.31 -5199 May 11 j 05:47	0.20	
	-5204 Mar 13 j 21:07	0°る			-5199 Jun 27 j 01:01	0°€ 0 €	
	-5204 Apr 25 j 09:38	0° ≈		desc. node	-5199 Jul 17 j 23:03	14° Ω 48'34	
	-5204 Jun 11 j 02:26	0 ∞ 0° ∺		desc. Hode	-5199 Aug 07 j 14:00	0°M)	
	-5204 Aug 08 j 12:17	0°Υ			-5199 Sep 15 j 21:16	0° ⊽	
retrograde	-5204 Sep 19 j 14:03	9° Υ' 22'17			-5199 Oct 24 j 12:26	0° M	
asc. node	-5204 Oct 15 j 09:29	4° Υ ′54'41			-5199 Dec 02 j 14:52	0° ⊼	
min. Earth dist.	-5204 Oct 27 j 22:09	0° Υ 11'40	0.65968 AU		-5198 Jan 12 j 00:51	8°0	
	-5204 Oct 28 j 09:46	30° ₽ ₩		evening set	-5198 Jan 15 j 14:23	2° る 35'08	
opposition	-5204 Oct 29 j 15:33	29° ∺ 30′03	0°32'37	3	-5198 Feb 23 j 07:17	0° ≈	
greatest brilliancy	-5204 Oct 29 j 14:29	29°) €31'07	-1.4m		,		
direct	-5204 Dec 08 j 08:26	19°) 58'36		conjunction	-5198 Mar 13 j 02:08	12° ≈ 12'39	-0°46'04
	-5203 Jan 22 j 18:08	0° Υ		minimum elong	-5198 Mar 13 j 04:01	12° ≈ 15'51	0°46'17
	-5203 Mar 25 j 06:32	0°8		max. Earth dist.	-5198 Apr 08 j 09:14	29° ≈ 52'05	2.58884 AU
	-5203 May 14 j 07:42	$\Pi^{\circ}0$			-5198 Apr 08 j 14:01	0° ∀	
	-5203 Jun 28 j 18:06	0 \circ \odot		morning rise	-5198 May 04 j 10:31	16°) 57′28	
	-5203 Aug 10 j 00:36	$0^{\circ}\Omega$			-5198 May 24 j 16:13	0° Y	
evening set	-5203 Sep 08 j 12:49	21° Q 59'42		asc. node	-5198 Jun 07 j 07:23	8° Y 41'06	
	-5203 Sep 19 j 00:59	0° ™			-5198 Jul 11 j 06:18	0°8	
desc. node	-5203 Oct 13 j 03:27	18° m 38'08			-5198 Aug 29 j 11:12	Π °0	
max. Earth dist.	-5203 Oct 25 j 15:24	28° Mp 24'20	2.37953 AU		-5198 Oct 21 j 03:35	0 \circ \odot	
	-5203 Oct 27 j 16:12	0∘ ⊽			-5197 Jan 04 j 15:05	0 $^{\circ}$ Ω	
				retrograde	-5197 Jan 19 j 04:07	1° Ω 13′26	
conjunction	-5203 Nov 08 j 09:31	9° ≏ 12'35			-5197 Feb 02 j 00:53	30° ₹ 5	
minimum elong	-5203 Nov 08 j 07:51	9° ഫ 09'18	0°19'04	opposition	-5197 Feb 22 j 14:40	24° © 17'31	5°02'31
	-5203 Dec 04 j 20:01	0°M₊		greatest brilliancy	-5197 Feb 24 j 04:17	23° © 45'03	-2.1m
	-5202 Jan 12 j 10:04	0° ∡		min. Earth dist.	-5197 Mar 03 j 00:50	21° © 23'49	0.49376 AU
morning rise	-5202 Jan 14 j 17:03	1° ∡ 45′24		direct	-5197 Apr 01 j 15:52	15°9547'20	
	-5202 Feb 21 j 06:27	0°ප		_	-5197 May 22 j 02:38	0 ° Ω	
	-5202 Apr 04 j 02:56	0° ≈		desc. node	-5197 Jun 05 j 00:51	7° Ω 20'52	
	-5202 May 18 j 16:28	0°) €			-5197 Jul 11 j 06:40	0° m/y	
	-5202 Jul 06 j 03:35	0° Υ			-5197 Aug 22 j 13:07	0° ™	
•	-5202 Sep 01 j 22:44	0°8			-5197 Oct 01 j 21:25	0°M 0°. 3	
asc. node	-5202 Sep 02 j 10:52	0° 8 12'56			-5197 Nov 11 j 07:03	0° ∡ 7	
retrograde	-5202 Oct 24 j 11:27	13° 8 11'33	2000/21		-5197 Dec 22 j 19:15	5°0	
opposition	-5202 Dec 02 j 21:43	3° 8 49'48	3-09-31		-5196 Feb 03 j 23:06	0° ≈	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 21 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5196 Mar 05 j 17:42 20°≈40'40 -5192 Nov 05 i 23:06 0° m evening set -5196 Mar 19 j 20:40 0°**)**€ -5192 Dec 16 j 05:12 0∘**⊽** -5196 Apr 24 j 01:58 22°**升**53′42 -5191 Jan 25 j 04:19 0°ML07'11 asc. node desc. node -5191 Jan 25 j 00:30 oom. -5191 Mar 06 j 09:24 0°×7 conjunction -5196 Apr 25 j 00:31 23°**)** € 30′00 0°00'33 -5196 Apr 25 j 00:29 0°궁 minimum elong 23°**¥**29'57 0°00'28 -5191 Apr 18 j 02:38 -5191 Jun 07 j 11:34 -5196 Apr 24 j 04:28 behind sun begin 22°**)** 57'44 0°≈ -5196 Apr 25 j 20:30 behind sun end 24°**)** 02'09 retrograde -5191 Jul 30 j 14:33 15°≈29'43 -5196 May 03 j 22:00 max. Earth dist. 29°**)** 13′06 2.65542 AU min. Earth dist. -5191 Aug 31 j 16:09 8°≈32'15 0.55175 AU -5196 May 05 j 03:15 $0^{\circ}\Upsilon$ opposition -5191 Sep 07 j 09:54 5°≈56'29 -3°57'30 23°**Y**45'26 morning rise -5196 Jun 11 j 08:09 greatest brilliancy -5191 Sep 06 j 13:09 6°**≈**16'30 -1.9m -5191 Sep 25 j 12:32 -5196 Jun 21 j 03:38 0° 8 30°Ŗる -5191 Oct 13 j 03:35 27°る54'59 -5196 Aug 07 j 08:25 $0^{\circ}\Pi$ direct -5196 Sep 23 j 14:00 0ಂತಾ -5191 Oct 31 j 21:02 0°≈ -5196 Nov 10 j 09:35 $0^{\circ}\Omega$ asc. node -5191 Dec 14 j 21:15 15°≈43'23 -5196 Dec 30 j 18:16 0° m -5190 Jan 12 j 12:54 0°**)**€ -5195 Mar 07 j 14:30 0∘**⊽** -5190 Mar 06 j 21:33 $0^{\circ}\Upsilon$ retrograde -5195 Mar 30 j 09:24 3°**₽**02'40 -5190 Apr 25 j 10:53 0°8 desc. node -5195 Apr 22 j 02:21 29° m 59'28 -5190 Jun 11 j 10:55 $0^{\circ}\Pi$ -5195 Apr 22 j 01:29 30°R M evening set -5190 Jul 02 j 22:51 14°**Ⅱ**16′00 opposition -5195 Apr 29 j 22:39 27° m $56'45 - 0^{\circ}35'48$ max. Earth dist. -5190 Jul 20 j 05:21 25°**Ⅲ**59'55 2.53690 AU greatest brilliancy -5195 Apr 29 i 23:55 27° m 55'54 -2.9m -5190 Jul 26 i 00:48 0ಂತಾ min. Earth dist. -5195 May 02 j 23:33 27° m 07'17 0.38423 AU direct -5195 May 31 i 07:45 22° m 30'40 conjunction -5190 Aug 21 j 13:45 18°938'19 1°03'46 -5195 Jul 05 j 10:25 0∘**⊽** -5190 Aug 21 j 15:11 18°9540'52 1°04'02 minimum elong -5195 Aug 30 j 11:57 0°M -5190 Sep 06 j 08:33 $0^{\circ}\Omega$ -5195 Oct 15 j 11:19 0°×7 -5190 Oct 13 j 04:02 27°Ω14'38 morning rise -5195 Nov 29 j 05:03 0°る -5190 Oct 16 j 19:47 O° m -5190 Nov 25 j 01:04 -5194 Jan 13 j 11:16 0°≈≈ 0∘Ω -5194 Feb 28 j 17:13 0°**)**€ -5190 Dec 13 j 01:21 13°**£**56'56 desc. node -5194 Mar 11 j 22:27 -5189 Jan 02 j 18:08 7°**升**11'32 0°M asc. node 0°**⊼** -5194 Apr 16 j 05:31 29°**)**41'25 -5189 Feb 10 j 19:43 evening set $0^{\circ}\Upsilon$ -5194 Apr 16 j 17:12 -5189 Mar 23 j 06:06 0°궁 26°**Υ**07'55 2.66830 AU -5194 May 27 j 18:26 -5189 May 05 j 10:10 max. Earth dist. 0°≈ -5189 Jun 23 j 09:31 0°**)**€ 29°**Υ**51'02 0°43'15 -5194 Jun 02 j 14:05 -5189 Sep 06 j 22:55 conjunction retrograde 25°\ 47'38 29°**Y**49'00 0°43'22 -5194 Jun 02 j 12:49 -5189 Oct 13 j 18:26 minimum elong min. Earth dist. 17°**₭**07'24 0.64061 AU -5194 Jun 02 j 19:41 0° 8 -5189 Oct 16 j 22:48 15°**)** 50'42 -0°37'43 opposition morning rise -5194 Jul 18 j 01:50 29°811'10 greatest brilliancy -5189 Oct 16 j 21:19 15°**)** €52'12 -1.5m -5194 Jul 19 j 07:48 $0^{\circ}II$ -5189 Nov 01 j 23:12 10°**₩**01'56 asc. node -5194 Sep 02 j 18:22 0ಂತಾ direct -5189 Nov 24 j 18:41 6° # 37'23 -5194 Oct 17 j 01:24 $0^{\circ}\Omega$ -5188 Feb 08 j 08:22 $0^{\circ}\Upsilon$ -5194 Nov 29 j 09:57 -5188 Apr 03 j 09:31 0°8 0° m -5193 Jan 11 j 07:36 -5188 May 22 j 02:26 $0^{\circ}\Pi$ 0∘**⊽** -5193 Feb 23 j 21:42 -5188 Jul 06 j 03:07 0ಂತಾ 0°M desc. node -5193 Mar 10 j 03:50 9°M25'09 evening set -5188 Aug 17 j 20:39 0°Ω23'24 -5193 Apr 13 j 02:16 0°×7 -5188 Aug 17 i 07:52 $0^{\circ}\Omega$ -5193 Jun 11 j 19:36 retrograde 19°**∡** 40′20 max. Earth dist. -5188 Sep 07 i 12:20 15°**Ω**41'54 2.41521 AU -5193 Jul 08 j 21:22 min. Earth dist. 14°**₹**51'02 0.42794 AU -5188 Sep 26 j 09:30 0° m -5193 Jul 14 j 21:46 12° ₹ 54'59 -2.6m greatest brilliancy -5193 Jul 16 j 12:41 12°**₹**'23'26 -6°20'06 -5188 Oct 13 i 19:08 13° m 23'24 0°11'42 opposition conjunction -5193 Aug 16 j 23:10 6°**х** 23′06 -5188 Oct 13 j 20:02 13°M 25'09 0°11'47 direct minimum elong -5193 Oct 28 j 03:25 0°궁 -5188 Oct 13 j 01:59 12° m 50'13 behind sun begin -5193 Dec 20 j 08:43 0°≈ behind sun end -5188 Oct 14 j 14:06 14° m 00'06 -5192 Jan 27 j 21:04 23°≈11'23 desc. node -5188 Oct 29 j 21:29 25° m 54'45 asc. node -5192 Feb 08 j 00:54 0°**∀** -5188 Nov 04 j 02:59 0∘∙თ $0^{\circ}\Upsilon$ 0° M -5192 Mar 27 j 17:03 -5188 Dec 12 j 08:45 -5192 May 14 j 11:51 0°8 -5188 Dec 17 j 02:26 3°M42'33 morning rise -5192 May 23 j 19:35 5°**8**56'28 -5187 Jan 20 j 00:01 0°**∡**7 evening set -5192 Jun 20 j 14:30 23°**8**53'00 2.62740 AU 0°る max. Earth dist. -5187 Feb 28 j 21:26 -5192 Jun 29 j 22:38 $0^{\circ}\Pi$ -5187 Apr 11 j 20:50 0°≈ -5187 May 26 j 21:37 0°**)**€ conjunction -5192 Jul 09 j 19:04 6°**I**I30'22 1°08'53 -5187 Jul 16 j 03:37 $0^{\circ}\Upsilon$ minimum elong -5192 Jul 09 j 18:20 6°**Ⅲ**29'08 1°09'09 asc. node -5187 Sep 19 j 01:28 27°**Y**35'16 -5192 Aug 13 j 16:01 0 \circ \odot -5187 Oct 03 j 15:42 0°8 -5192 Aug 25 j 12:23 8°9509'32 -5187 Oct 10 j 18:59 0°818'56 morning rise retrograde

-5187 Oct 17 j 18:26

30°RY

-5192 Sep 25 j 14:20

 $0^{\circ}\Omega$

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. 20°**Υ**'42'32 2°13'13 -5187 Nov 19 j 14:13 -5182 Dec 30 j 15:01 0°정 opposition -5187 Nov 19 j 14:04 20°**Y**′42'42 -1.3m -5181 Feb 11 j 08:06 0°**≈** greatest brilliancy 3°**≈**36'39 -5187 Nov 20 j 03:45 20°**Υ**29'01 0.67067 AU -5181 Feb 16 j 14:35 min. Earth dist. evening set -5187 Dec 30 j 06:39 10°**Y**51'12 -5181 Mar 27 j 22:00 0°**)**€ direct -5186 Mar 06 j 13:14 0°8 -5186 Apr 30 j 07:54 $0^{\circ}II$ -5181 Apr 09 j 21:27 conjunction 8°**\(\frac{1}{3}\) 31'47 -0°18'05** 0ಂಣ -5181 Apr 09 j 22:14 -5186 Jun 16 j 01:08 minimum elong 8° **★**33'04 0°18'12 $0^{\circ}\Omega$ -5181 Apr 25 j 06:27 -5186 Jul 28 j 17:21 max. Earth dist. 18°**∺**32'14 2.63555 AU -5181 May 11 j 19:29 -5186 Sep 06 j 19:40 0° m asc. node 29°**升**12'38 desc. node -5186 Sep 16 j 18:56 7° My 40'02-5181 May 13 j 00:59 $0^{\circ}\Upsilon$ 10°**Y**03'38 -5186 Oct 15 j 10:16 0∘**⊽** morning rise -5181 May 28 j 18:20 -5186 Oct 17 j 07:12 -5181 Jun 29 j 04:13 evening set 1°**£**28'15 0°8 -5186 Nov 22 j 13:08 -5181 Aug 15 j 22:05 0° M $0^{\circ}\Pi$ -5181 Oct 03 j 11:55 0ಂತಾ conjunction -5186 Dec 21 j 09:43 22°M30'48 -0°58'40 -5181 Nov 23 j 14:14 $0^{\circ}\Omega$ minimum elong -5186 Dec 21 j 06:48 22°M25'08 0°58'52 -5180 Jan 26 j 13:04 0° m -5186 Dec 31 j 02:55 0°**∡**¹ retrograde -5180 Feb 28 j 11:43 5° m 53'27 max. Earth dist. -5185 Feb 08 j 00:32 29°**∡**17'42 2.42197 AU opposition -5180 Mar 31 j 08:55 0° Mp 12'52 2°36'29 -5185 Feb 08 j 23:30 0°る greatest brilliancy -5180 Apr 01 j 04:12 29°**Ω**58'27 -2.7m morning rise -5185 Feb 24 j 21:15 11°る36'22 -5180 Apr 01 j 02:08 30°R€ -5185 Mar 22 j 18:19 0°≈ min. Earth dist. -5180 Apr 07 j 08:20 28°**Ω**08'37 0.41695 AU -5185 May 05 j 22:18 0°**)**€ direct -5180 May 04 j 11:16 23°**Ω**34'41 -5185 Jun 21 i 21:52 $0^{\circ}\Upsilon$ desc. node -5180 May 08 j 18:42 23°**Ω**42'17 -5185 Aug 07 j 01:18 27° Y 10'34 -5180 Jun 05 j 12:54 0° m asc. node -5185 Aug 12 j 04:05 0°8 -5180 Jul 31 j 11:17 0∘**⊽** -5185 Oct 18 j 12:00 $0^{\circ}II$ -5180 Sep 13 j 17:41 0°M -5185 Nov 16 j 05:26 4°**I**I27'44 -5180 Oct 26 j 06:58 0°×7 retrograde -5185 Dec 12 j 16:43 -5180 Dec 08 j 06:03 0°궁 30°R₩ opposition -5185 Dec 24 j 17:52 -5179 Jan 21 j 10:26 25°**8**35'54 4°24'24 0°≈ -5185 Dec 25 j 07:44 -5179 Mar 08 j 00:27 0°) greatest brilliancy 25°**8**22'24 -1.4m -5185 Dec 29 j 02:30 23°854'00 0.63759 AU -5179 Mar 28 j 14:56 min. Earth dist. 13°**升** 18′58 asc. node -5184 Feb 03 j 21:55 15°**8**36'19 -5179 Mar 31 j 16:43 15°**∺** 17'33 direct evening set $0^{\circ}\Upsilon$ -5184 Mar 29 j 05:32 $0^{\circ}\Pi$ -5179 Apr 23 j 15:36 -5184 May 22 j 13:58 000 -5184 Jul 06 j 06:49 $0^{\circ}\Omega$ -5179 May 18 j 20:58 16°Υ05'51 0°28'04 conjunction -5184 Aug 03 j 17:01 20°**Ω**40'48 -5179 May 18 j 20:00 16°Υ04'19 0°28'06 desc. node minimum elong -5184 Aug 16 j 02:56 -5179 May 18 j 12:18 15°**Y**52'02 2.66970 AU 0° M max. Earth dist. -5184 Sep 24 j 01:56 0∘**⊽** -5179 Jun 09 j 15:44 0°8 -5184 Nov 01 j 11:01 0° M morning rise -5179 Jul 03 j 17:54 15°**8**25'57 -5184 Dec 10 j 07:30 0°**√** -5179 Jul 26 j 08:11 $\Pi^{\circ}0$ -5184 Dec 23 j 03:29 9°×742'57 -5179 Sep 10 j 07:15 0ಂತಾ evening set -5183 Jan 19 j 11:30 0°る -5179 Oct 25 j 13:21 $0^{\circ}\Omega$ -5179 Dec 09 j 11:21 0° M -5183 Feb 21 j 01:03 23°る22'02 -1°00'15 -5178 Jan 23 j 23:54 conjunction 0∘**⊽** -5183 Feb 21 j 02:58 23°る25'24 1°00'31 -5178 Mar 14 j 11:11 minimum elong 0°M -5183 Mar 02 j 12:21 0°≈ desc. node -5178 Mar 26 i 20:50 6°M27'11 max. Earth dist. -5183 Mar 27 j 02:41 16°≈53'42 2.54848 AU retrograde -5178 May 17 j 08:43 21°M11'43 -5183 Apr 15 i 15:35 0°**∀** min. Earth dist. -5178 Jun 13 i 09:41 16°M44'08 0.39043 AU morning rise -5183 Apr 17 j 12:35 1° **)** 14'39 greatest brilliancy -5178 Jun 17 i 10:45 15°M35'25 -2.8m -5183 May 31 j 19:06 $0^{\circ}\Upsilon$ -5178 Jun 18 i 11:26 15°M17'50 -5°28'57 opposition -5183 Jun 23 j 23:04 14°Y36'39 direct -5178 Jul 18 j 14:32 10°M04'49 asc. node -5183 Jul 18 j 21:13 0°8 -5178 Sep 20 j 06:22 0°×7 $\mathbb{I}^{\circ 0}$ -5178 Nov 11 j 19:21 0°궁 -5183 Sep 07 j 16:33 0°ಅ -5183 Nov 05 j 16:56 -5178 Dec 30 j 05:46 0°≈ retrograde -5183 Dec 29 j 01:35 13°9518'49 -5177 Feb 13 j 12:31 28°≈22'20 asc. node -5177 Feb 16 j 02:52 -5182 Feb 02 j 23:49 5°931'40 5°23'25 0°**)**€ opposition $0^{\circ}\Upsilon$ greatest brilliancy -5182 Feb 04 j 10:25 5°9510'10 -1.9m -5177 Apr 04 j 23:11 -5182 Feb 10 j 18:06 2°552'28 0.54338 AU -5177 May 09 j 20:39 22°Y01'00 min. Earth dist. evening set -5182 Feb 19 j 11:29 30°RⅡ -5177 May 22 j 09:48 0°8 -5182 Mar 14 j 14:12 26°**Ⅲ**26'23 -5177 Jun 11 j 17:18 13°**8**01'26 2.64970 AU direct max. Earth dist. -5182 Apr 07 j 14:20 0ಂಣ -5182 Jun 08 j 16:01 0° Ω conjunction -5177 Jun 25 j 16:11 22°**8**03'45 1°01'44 desc. node -5182 Jun 21 j 16:35 8°**£**21′01 minimum elong -5177 Jun 25 j 15:00 22°**8**01'50 1°01'56 -5182 Jul 23 j 00:49 0° m -5177 Jul 07 j 19:50 $0^{\circ}\Pi$

morning rise

-5177 Aug 10 j 11:45

-5177 Aug 21 j 18:15

-5177 Oct 04 j 02:38

22°**Ⅲ**22'21

0ಂತಾ

 $0^{\circ}\Omega$

-5182 Sep 01 j 13:22

-5182 Oct 10 j 23:01

-5182 Nov 19 j 16:09

0∘**⊽**

0°M

0°×7

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5177 Nov 15 i 01:23 0° m direct -5172 Dec 16 j 10:57 27°\ 56'06 -5177 Dec 26 j 00:34 0∘**⊽** -5171 Jan 04 j 12:41 $0^{\circ}\Upsilon$ -5176 Feb 04 j 16:27 0°M -5171 Mar 18 j 15:24 0°8 5°M16'12 $0^{\circ}\Pi$ desc. node -5176 Feb 11 j 21:01 -5171 May 08 j 23:40 0°×7 -5171 Jun 23 j 19:58 000 -5176 Mar 17 j 07:42 -5171 Aug 05 j 06:03 0°정 -5176 May 02 j 01:39 0 \circ Ω 26°る30'57 retrograde -5176 Jul 13 j 05:04 -5171 Sep 14 j 07:13 0° m -5176 Aug 12 j 02:40 min. Earth dist. 20°**る**24'49 0.50433 AU evening set -5171 Sep 21 j 21:01 5° m 49'10 opposition -5176 Aug 19 j 21:38 17°る32'56 -5°13'02 desc. node -5171 Oct 03 j 12:58 14° m 50'59 greatest brilliancy -5176 Aug 18 j 14:09 18°**る**01'59 -2.1m -5171 Oct 22 j 22:14 0°Ω direct -5176 Sep 23 j 01:14 10°る12'59 -5171 Nov 23 j 17:49 -5176 Nov 28 j 05:13 0°≈ conjunction 25°**£**01'54 -0°35'52 -5171 Nov 23 j 14:53 asc. node -5176 Dec 31 j 12:09 17°≈15'28 minimum elong 24°**£**56'08 0°35'56 -5175 Jan 23 j 05:03 0°**)**€ -5171 Nov 30 j 01:32 0°M -5175 Mar 15 j 01:23 $0^{\circ}\Upsilon$ max. Earth dist. -5171 Dec 18 j 15:16 14°M31'59 2.38064 AU -5175 May 02 j 17:47 0° 8 -5170 Jan 07 j 14:57 0°**⊼** evening set -5175 Jun 16 j 20:00 28°855'49 morning rise -5170 Jan 30 j 07:13 17°**∡**14'16 -5175 Jun 18 j 11:08 $0^{\circ}\Pi$ -5170 Feb 16 j 10:34 max. Earth dist. -5175 Jul 07 j 15:03 12°**Ⅱ**42'49 2.57798 AU -5170 Mar 30 j 05:10 -5175 Aug 02 j 01:31 -5170 May 13 j 13:03 0°) -5170 Jun 30 j 06:23 $0^{\circ}\Upsilon$ conjunction -5175 Aug 03 j 23:04 1°518'32 1°10'31 -5170 Aug 23 j 17:04 0°803'38 asc. node minimum elong -5175 Aug 03 i 23:33 1°9519'22 1°10'49 -5170 Aug 23 j 14:05 0°8 -5175 Sep 13 j 14:01 $0^{\circ}\Omega$ -5170 Nov 01 i 13:39 21°807'18 retrograde -5175 Sep 22 j 12:16 6°**Ω**28'26 -5170 Dec 10 j 17:13 11°**8**55'12 3°39'12 morning rise opposition -5175 Oct 24 j 08:08 0°m -5170 Dec 11 j 00:05 11°848'25 -1.4m greatest brilliancy -5175 Dec 02 j 21:02 0∘**⊽** -5170 Dec 13 j 14:09 10°**8**47'07 min. Earth dist. 0.65807 AU -5175 Dec 29 j 20:50 20°**£**44'54 -5169 Jan 20 j 21:11 desc node direct 1°**8**54'31 0°M -5169 Apr 13 j 10:30 $0^{\circ}\Pi$ -5174 Jan 10 j 21:30 -5174 Feb 19 j 06:42 0°×7 -5169 Jun 02 j 03:40 000 -5174 Apr 01 j 04:42 0°정 -5169 Jul 15 j 18:09 0 \circ Ω -5174 May 15 j 13:50 -5169 Aug 21 j 10:26 0°22 27°**Ω**08'47 desc. node -5174 Jul 09 j 03:00 0°**)**€ -5169 Aug 25 j 04:31 0° m -5174 Aug 23 j 19:43 11°**¥**23′12 -5169 Oct 02 j 22:34 retrograde 0∘ଫ -5174 Sep 27 j 22:25 -5169 Nov 10 j 03:55 min. Earth dist. 3°**光**18′08 0.61241 AU 0°M -5174 Oct 02 j 13:14 opposition 1°**升**27'40 -1°52'50 evening set -5169 Nov 28 j 11:00 14°M16'27 greatest brilliancy -5174 Oct 02 j 06:27 1°**)** 34′26 -1.6m -5169 Dec 18 j 20:30 0°**⊼** -5174 Oct 06 j 06:04 30°R≈ -5168 Jan 27 j 20:20 0°정 direct -5174 Nov 09 j 07:31 22°≈37'28 asc. node -5174 Nov 18 j 13:09 23°≈08'49 conjunction -5168 Jan 30 j 15:11 2°る02'29 -1°08'12 -5174 Dec 17 j 04:04 0°**)**€ minimum elong -5168 Jan 30 j 15:54 2°る03'46 1°08'29 -5173 Feb 19 j 15:22 $0^{\circ}\Upsilon$ -5168 Mar 09 j 17:30 -5173 Apr 12 j 16:29 0° 8 max. Earth dist. -5168 Mar 12 j 11:01 1°≈54'14 2.50191 AU -5173 May 30 j 12:59 $\mathbb{I}^{\circ 0}$ -5168 Mar 29 j 21:14 13°≈54'40 morning rise -5173 Jul 14 j 08:01 -5168 Apr 22 j 19:05 0°) 0ಂತಾ $0^{\circ}\Upsilon$ evening set -5173 Jul 30 i 08:09 11°9510'38 -5168 Jun 08 i 02:45 20°**Y**11′29 max. Earth dist. -5173 Aug 14 j 18:11 22°510'20 2.46391 AU asc. node -5168 Jul 10 i 15:58 -5173 Aug 25 j 13:19 $0^{\circ}\Omega$ -5168 Jul 26 i 23:32 0°8 -5168 Sep 18 j 12:05 $0^{\circ}II$ -5173 Sep 21 j 17:16 20°Ω08'09 0°38'02 -5168 Dec 10 j 14:37 27°**Ⅲ**23'29 conjunction retrograde 20°**Ω**12'04 0°38'12 -5173 Sep 21 j 19:21 -5167 Jan 16 j 17:44 19°**I**I12'20 5°13'54 minimum elong opposition -5173 Oct 04 j 18:05 0°m -5167 Jan 17 j 20:42 18°**Ⅱ**46′54 -1.7m greatest brilliancy -5173 Nov 12 j 15:23 0∘**⊽** -5167 Jan 23 j 07:18 16°**Ⅱ**43'54 0.58699 AU min. Earth dist. 9°**Ⅱ**30'04 desc. node -5173 Nov 16 j 17:27 3°**₽**11'10 direct -5167 Feb 26 j 06:50 -5173 Nov 20 j 03:15 5°**£**50'49 -5167 May 02 j 08:49 000 morning rise -5173 Dec 21 j 00:33 0°M -5167 Jun 20 j 15:47 $0^{\circ}\Omega$ -5172 Jan 28 j 18:13 0°**∡** desc. node -5167 Jul 08 j 10:04 12° € 15'35 -5172 Mar 08 j 18:06 0°る -5167 Aug 01 j 22:24 0° m -5172 Apr 19 j 23:17 0°≈ -5167 Sep 10 j 13:53 0∘**⊽** -5172 Jun 04 j 19:26 0°\ -5167 Oct 19 j 10:13 0°M $0^{\circ}\Upsilon$ -5167 Nov 27 j 16:22 0°**∡**7 -5172 Jul 28 j 14:38 -5172 Sep 27 j 08:44 17°**Y**23'35 -5166 Jan 07 j 05:27 0°궁 retrograde asc. node -5172 Oct 05 j 15:11 16°**Y**56′27 evening set -5166 Jan 27 j 18:26 14°る43'13 min. Earth dist. -5172 Nov 05 j 10:52 7°**Y**57'53 0.66625 AU -5166 Feb 18 j 14:16 0°≈

opposition

greatest brilliancy

-5172 Nov 06 j 08:45

-5172 Nov 06 j 07:10

-5172 Nov 28 j 15:24

7°**Y**35′53

7°**Ƴ**37′29

30°₽**,**₩

1°11'18

conjunction

minimum elong

-5166 Mar 23 j 14:26

-5166 Mar 23 j 16:00

22°≈27'18 -0°36'18

22°**≈**29'56 0°36'28

-1.4m

•	omena of Mars fron nical year style is used: Th		•	· · ·		, ,	e 24
,	-5166 Apr 03 j 22:19	0° ∀			-5161 Apr 01 j 07:12	0° ∡ 7	
max. Earth dist.	-5166 Apr 14 j 20:30	7° ¥ 12′29	2.60764 AU		-5161 May 29 j 22:43	ರ°0	
morning rise	-5166 May 13 j 13:06	25°) €51'36		retrograde	-5161 Jun 24 j 10:05	4° る 19'43	
	-5166 May 19 j 23:42	0 ° Υ			-5161 Jul 19 j 12:27	30°₽ ✓	
asc. node	-5166 May 28 j 12:08	5° Y 26'56		min. Earth dist.	-5161 Jul 22 j 06:32	29° ₰ 06'31	0.45389 AU
	-5166 Jul 06 j 08:35	9° 8		greatest brilliancy	-5161 Jul 28 j 18:02	26° ₹ 54'10	-2.4m
	-5166 Aug 23 j 21:42	Π °0		opposition	-5161 Jul 30 j 09:18	26° ∡ ¹20'33	-6°09'20
	-5166 Oct 13 j 14:50	0°99		direct	-5161 Aug 31 j 17:23	19° ∡ ′50′58	
	-5166 Dec 11 j 06:45	0° N			-5161 Oct 14 j 13:42	0°₹	
retrograde	-5165 Feb 01 j 15:08	13° Ω 04'03	4020152	1	-5161 Dec 13 j 05:02	0°≈ 20050142	
opposition	-5165 Mar 07 j 04:30	6° Ω 34'11 6° Ω 05'20	4°28'53	asc. node	-5160 Jan 18 j 02:19	20°≈50'42	
greatest brilliancy min. Earth dist.	-5165 Mar 08 j 15:19 -5165 Mar 15 j 13:04	3° Ω 49'11	-2.3m 0.46497 AU		-5160 Feb 02 j 10:30 -5160 Mar 22 j 17:58	0° ℋ 0° Ƴ	
mm. Earth dist.	-5165 Mar 30 j 01:37	30°RS	0.40497 AU		-5160 May 09 j 19:47	%8 0°B	
direct	-5165 Apr 12 j 23:57	28° © 39'00		evening set	-5160 Jun 01 j 11:21	14° 8 27'31	
direct	-5165 Apr 27 j 04:56	0° Ω		evening sec	-5160 Jun 25 j 08:50	0°Ⅱ	
desc. node	-5165 May 26 j 10:19	9° Ω 42'20		max. Earth dist.	-5160 Jun 26 j 15:17		2.61184 AU
	-5165 Jul 02 j 06:10	0° m/					
	-5165 Aug 15 j 13:17	0∘ ⊽		conjunction	-5160 Jul 18 j 17:04	15° Ⅱ 30'34	1°11'00
	-5165 Sep 25 j 19:16	0° M		minimum elong	-5160 Jul 18 j 16:42	15° Ⅱ 29'57	1°11'16
	-5165 Nov 05 j 18:12	0° ∡ ¹			-5160 Aug 09 j 01:16	0 \circ \odot	
	-5165 Dec 17 j 15:49	8°0		morning rise	-5160 Sep 04 j 04:55	18° © 11'09	
	-5164 Jan 30 j 02:23	0° ≈			-5160 Sep 20 j 20:06	0 $^{\circ}$ Ω	
evening set	-5164 Mar 15 j 10:50	0° ¥ 10′36			-5160 Oct 31 j 23:26	0° ™	
	-5164 Mar 15 j 04:21	0° ∀			-5160 Dec 10 j 22:49	0∘ ত	
asc. node	-5164 Apr 14 j 07:59	19°) (34′49		desc. node	-5159 Jan 15 j 14:19	27° Ω 05'10	
	-5164 Apr 30 j 12:58	0 ° Υ			-5159 Jan 19 j 10:23	0°M	
agnismation	5164 May 02 : 20:26	2° Ƴ 07'19	0°11'01		-5159 Feb 28 j 08:24	0°⋜	
conjunction minimum elong	-5164 May 03 j 20:26 -5164 May 03 j 20:01	2 γ0/19 2°γ06'38	0°11'00		-5159 Apr 11 j 04:00 -5159 May 28 j 03:38	0°≈	
behind sun begin	-5164 May 03 j 05:33	1° Υ 43'29	0 11 00	retrograde	-5159 Aug 08 j 18:58	0 ∞ 25°≈38'54	
behind sun end	-5164 May 04 j 10:29	2° Υ 29'47		min. Earth dist.	-5159 Sep 10 j 23:41		0.57528 AU
max. Earth dist.	-5164 May 09 j 10:02	5° Υ 41'04	2.66283 AU	opposition	-5159 Sep 16 j 23:46	15° ≈ 54'18	
	-5164 Jun 16 j 12:41	0° ႘		greatest brilliancy	-5159 Sep 16 j 08:46	16° ≈ 09'01	
morning rise	-5164 Jun 19 j 12:38	1° 8 54'40		direct	-5159 Oct 23 j 11:44	7° ≈ 33'32	
	-5164 Aug 02 j 12:14	$\Pi^{\circ}0$		asc. node	-5159 Dec 05 j 03:17	16° ≈ 46'46	
	-5164 Sep 18 j 05:06	0 \circ			-5158 Jan 04 j 08:48	0° ∀	
	-5164 Nov 03 j 21:25	0 $^{\circ}$ Ω			-5158 Mar 01 j 03:52	0 ° Υ	
	-5164 Dec 21 j 12:35	0° ™			-5158 Apr 20 j 11:11	0°8	
	-5163 Feb 11 j 14:38	0∘ ত			-5158 Jun 06 j 18:10	0° Π	
desc. node	-5163 Apr 12 j 13:17	20° ≙ 14'51		evening set	-5158 Jul 12 j 13:06	23° ∏ 53'57	
retrograde	-5163 Apr 17 j 06:46	20° Ω 23'30	20.40150	T 4 1	-5158 Jul 21 j 10:12	0°©	2 51202 111
opposition	-5163 May 17 j 22:03	15° Ω 17'49		max. Earth dist.	-5158 Jul 28 j 11:06	4° © 52'57	2.51202 AU
greatest brilliancy min. Earth dist.	-5163 May 17 j 19:52 -5163 May 17 j 20:31	15° Ω 19'17 15° Ω 18'51	-3.0m 0.37740 AU	conjunction	-5158 Sep 01 j 06:33	29° © 40'13	0°56'39
direct	-5163 Jun 17 j 03:56	10° 2 13'48	0.57740 AU	minimum elong	-5158 Sep 01 j 08:26	29°543'38	0°56'54
direct	-5163 Aug 18 j 02:30	0°M		minimum ciong	-5158 Sep 01 j 17:26	0°Ω	0 30 34
	-5163 Oct 07 j 14:20	0°×7			-5158 Oct 12 j 02:26	0° my	
	-5163 Nov 22 j 23:25	0°ਰ		morning rise	-5158 Oct 26 j 00:22	10° mp 35'38	
	-5162 Jan 08 j 01:50	0° ≈		Č	-5158 Nov 20 j 04:36	0∘ <u>⊽</u>	
	-5162 Feb 23 j 19:02	0°) €		desc. node	-5158 Dec 03 j 11:24	10° ≙ 19'02	
asc. node	-5162 Mar 02 j 04:07	4°) €03'47			-5158 Dec 28 j 18:21	0°M	
	-5162 Apr 12 j 01:04	0 ° Υ			-5157 Feb 05 j 16:12	0° ∡ ¹	
evening set	-5162 Apr 24 j 22:12	8° Ƴ 09'43			-5157 Mar 17 j 21:10	0°ප	
	-5162 May 29 j 06:03	0°8			-5157 Apr 29 j 13:41	0° ≈	
max. Earth dist.	-5162 Jun 02 j 04:50	2° 8 31'34	2.66404 AU		-5157 Jun 15 j 22:02	0°) €	
	51/01 10:00:00	00	0050155		-5157 Aug 19 j 07:29	0°Υ 4° Υ 06144	
conjunction	-5162 Jun 10 j 23:20	8° 8 09'00	0°50'55	retrograde	-5157 Sep 14 j 21:04	4°Υ06'44	
minimum elong	-5162 Jun 10 j 22:01	8° ႘ 06'53 0°Ⅱ	0°51'03	min Farth dist	-5157 Oct 09 j 11:59	30° ₹ 25° ¥ 08'57	0.65230 ATT
morning rise	-5162 Jul 14 j 17:10 -5162 Jul 26 j 10:19	0°Щ 7°Щ40'55		min. Earth dist. asc. node	-5157 Oct 22 j 13:02 -5157 Oct 23 j 05:50	25° X 08'5 / 24° X 52'04	0.65230 AU
morning 1150	-5162 Jul 26 j 10.19 -5162 Aug 28 j 23:12	0°©		opposition	-5157 Oct 24 j 21:46	24 X 32 04 24° X 11'51	0°03'51
	-5162 Oct 11 j 21:28	0°€ 0 €		greatest brilliancy	-5157 Oct 24 j 21:40	24° X 11'56	-1.5m
	-5162 Nov 23 j 16:11	0° mp		direct	-5157 Dec 03 j 05:09	14°) (47'56	
	-5161 Jan 04 j 17:24	0∘ ⊽			-5156 Jan 30 j 06:19	0°Υ	
	-5161 Feb 15 j 21:08	0°M			-5156 Mar 28 j 12:35	0°B	
desc. node	-5161 Feb 28 j 15:32	8°M53'47			-5156 May 17 j 00:28	Π °0	

Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5156 Jul 01 i 07:59 0ಂಣ -5151 Mar 04 j 17:28 4°≈48'16 -0°52'37 conjunction -5156 Aug 12 j 15:08 $0^{\circ}\Omega$ -5151 Mar 04 j 19:29 4°≈51'44 0°52'51 minimum elong 24°≈55'05 2.57179 AU -5156 Aug 29 j 20:11 12°**Ω**42'58 -5151 Apr 03 j 07:57 max. Earth dist. evening set -5151 Apr 10 j 22:52 -5156 Sep 21 j 17:00 0° M 0°**)**€ 2.39238 AU -5151 Apr 27 j 08:59 10° **X** 49'39 max. Earth dist. -5156 Sep 28 j 00:38 4° m 50'39 morning rise -5156 Oct 20 j 07:44 -5151 May 27 j 00:26 0° desc. node 22° m 07'10 11° Y 32'43 -5151 Jun 14 j 04:45 asc. node -5151 Jul 13 j 18:21 conjunction -5156 Oct 27 j 22:27 28° mg 04'10 -0°05'36 0°8 -5156 Oct 27 j 21:59 minimum elong 28° Mp 03'16 0°05'34 -5151 Sep 01 j 12:39 $0^{\circ}\Pi$ behind sun begin -5156 Oct 26 j 20:36 27° m 13'37 -5151 Oct 26 j 03:36 0ಂತಾ behind sun end -5156 Oct 28 j 23:22 28° My 52'55retrograde -5150 Jan 09 j 15:38 23°937'06 -5156 Oct 30 j 09:37 -5150 Feb 13 j 18:38 0∘**⊽** opposition 16°921'34 5°15'40 -5156 Dec 07 j 14:13 0° M greatest brilliancy -5150 Feb 15 j 07:40 15°9548'41 -2.0m morning rise -5155 Jan 02 j 06:34 20°ML02'47 min. Earth dist. -5150 Feb 21 j 23:30 13°527'29 0.51662 AU -5155 Jan 15 j 04:03 0°**√** direct -5150 Mar 24 j 14:08 7°528'20 -5155 Feb 23 j 23:36 0°ರ -5150 May 30 j 06:12 $0^{\circ}\Omega$ -5155 Apr 06 j 19:39 0°**≈** desc. node -5150 Jun 12 j 04:13 7°**Ω**36'17 -5155 May 21 j 11:19 0°**)**€ -5150 Jul 16 j 04:06 0° M -5155 Jul 09 j 10:57 $0^{\circ}\Upsilon$ -5150 Aug 26 j 13:00 0°Ω -5155 Sep 08 j 21:43 0°8 -5150 Oct 05 j 09:40 0°M asc. node -5155 Sep 09 j 07:33 0°808'55 -5150 Nov 14 j 10:24 0°×7 retrograde -5155 Oct 18 j 15:33 8°809'35 -5150 Dec 25 i 15:00 0°궁 -5155 Nov 23 j 22:12 30°RY -5149 Feb 06 i 12:40 0°≈ -5155 Nov 27 i 05:56 28°**Ƴ**40'57 2°46'42 -5149 Feb 27 i 04:05 13°≈59'45 opposition evening set greatest brilliancy -5155 Nov 27 j 07:42 28°**Ƴ**39'12 -1.3m -5149 Mar 23 j 05:33 0°**∀** min. Earth dist. -5155 Nov 28 j 15:20 28°**Y**07'39 0.66882 AU -5154 Jan 07 j 03:26 18° **Y**44'56 -5149 Apr 19 j 06:39 17°**)** 39'51 -0°07'16 direct conjunction -5154 Feb 24 i 07:35 0°8 -5149 Apr 19 j 06:56 17°**)** 40′19 0°07'20 minimum elong -5154 Apr 24 j 04:24 $\mathbb{I}^{\circ 0}$ -5149 Apr 18 j 12:34 behind sun begin 17°**¥**10'34 -5154 Jun 10 j 18:12 0ಂತಾ -5149 Apr 20 j 01:19 behind sun end 18°\ 10'03 -5154 Jul 23 j 17:43 -5149 May 01 j 00:57 0° Ω max. Earth dist. 25°**)** 15'41 2.64768 AU -5154 Sep 01 j 22:55 -5149 May 01 j 23:40 0° mb 25°**H** 52'16 asc. node -5154 Sep 07 j 03:59 -5149 May 08 j 09:45 $0^{\circ}\Upsilon$ 3° m 59'35 desc. node 18°Y24'25 -5154 Oct 10 j 14:42 -5149 Jun 06 j 05:00 0∘**⊽** morning rise -5154 Nov 01 j 10:44 17°**£**10′18 -5149 Jun 24 j 10:54 evening set 0° 8 -5149 Aug 10 j 20:45 -5154 Nov 17 j 18:17 0°M $0^{\circ}\Pi$ -5154 Dec 26 j 08:32 -5149 Sep 27 j 14:54 0° **₹** 0ಂತಾ -5149 Nov 15 j 14:28 $0^{\circ}\Omega$ conjunction -5153 Jan 05 j 13:16 7°**∡**147'16 -1°05'52 -5148 Jan 08 j 08:05 0° m minimum elong -5153 Jan 05 j 11:34 7°**∡**144'03 1°06'07 retrograde -5148 Mar 16 j 13:17 21° Mp 03'20 -5153 Feb 04 j 05:21 0°ರ -5148 Apr 16 j 12:22 15° Mp 45'49 0°56'01 opposition max. Earth dist. -5153 Feb 22 j 11:40 13°る18'19 2.45057 AU greatest brilliancy -5148 Apr 16 j 18:16 15° Mp 41'40 -2.8m -5153 Mar 09 j 22:49 24°る20'35 min. Earth dist. -5148 Apr 21 j 15:25 14° **m** 19'20 morning rise 0.39609 AU -5153 Mar 17 j 23:53 -5148 Apr 29 j 05:47 12° m 20'39 0°≈ desc. node -5153 May 01 j 01:18 0°**)**€ -5148 May 19 j 01:36 9° m 50'38 direct $0^{\circ}\Upsilon$ -5148 Jul 19 i 08:40 -5153 Jun 16 j 16:40 0∘**⊽** -5153 Jul 28 i 07:28 25° **Y**07'09 asc. node -5148 Sep 05 i 17:22 0°M 0°8 -5153 Aug 05 j 19:14 -5148 Oct 19 i 19:46 0°×7 -5153 Oct 03 j 21:43 $\mathbb{I}^{\circ 0}$ -5148 Dec 02 j 14:46 0°궁 -5153 Nov 25 j 01:36 12°**Ⅱ**48'49 -5147 Jan 16 i 07:27 0°**≈** retrograde -5152 Jan 02 j 03:28 4°II10'03 4°46'02 -5147 Mar 03 j 04:52 0°\ opposition -5152 Jan 02 j 21:55 3°**I**52'14 -1.5m -5147 Mar 18 j 19:53 10° **₩** 03'43 greatest brilliancy asc. node min. Earth dist. -5152 Jan 07 j 07:38 2°**Ц**10'13 0.62213 AU evening set -5147 Apr 09 j 16:29 24° ¥ 03'07 $0^{\circ}\Upsilon$ -5152 Jan 13 j 03:44 30°R₩ -5147 Apr 19 j 00:14 -5152 Feb 12 j 04:26 24°813'47 22°**Y**14'56 direct max. Earth dist. -5147 May 23 j 22:13 2.67001 AU -5152 Mar 15 j 08:41 $0^{\circ}II$ -5152 May 15 j 17:49 0ಂತಾ conjunction -5147 May 27 j 08:31 24°\bar{\gamma}26'11 0°37'10 -5152 Jun 30 j 13:43 $0^{\circ}\Omega$ -5147 May 27 j 07:21 24°**Y**24'19 0°37'15 minimum elong -5152 Jul 25 j 02:48 17°**Ω**35'44 -5147 Jun 05 j 01:37 0°8 desc. node -5152 Aug 10 j 19:33 0° M -5147 Jul 11 j 22:44 23°**8**42'11 morning rise 0∘**⊽** -5147 Jul 21 j 15:50 $0^{\circ}\Pi$ -5152 Sep 18 j 23:08 -5152 Oct 27 j 11:17 0°M -5147 Sep 05 j 08:14 0ಂಣ -5152 Dec 05 j 10:13 0°**∡** -5147 Oct 20 j 01:06 0° Ω evening set -5151 Jan 05 j 18:23 23°**х** 27'48 -5147 Dec 03 j 00:35 0° m -5151 Jan 14 j 16:21 0°궁 -5146 Jan 15 j 20:49 0∘**⊽** -5151 Feb 25 j 19:05 -5146 Mar 02 j 04:14 0°M 0°≈

-5146 Mar 17 j 07:31

desc. node

9°M21'03

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 26 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronomi	cal year style is used: Th	e year -5399 i	n astronomical cou	nting style is the year	5400 BCE in historical co	ounting style.	
	-5146 Apr 26 j 02:35	0° ∡ ¹			-5141 Jul 09 j 15:28	0 \circ \odot	
retrograde	-5146 Jun 01 j 06:38	8° ∡ 07'38		evening set	-5141 Aug 10 j 04:39	22°©14'21	
min. Earth dist.	-5146 Jun 28 j 01:09		0.40893 AU		-5141 Aug 20 j 21:31	0 \circ Ω	
greatest brilliancy	-5146 Jul 03 j 09:42	1° ∡ 755'19 −		max. Earth dist.	-5141 Aug 27 j 11:00		2.43643 AU
opposition	-5146 Jul 04 j 20:36	1° ∡ 728'32	-6°11'43		-5141 Sep 30 j 01:20	0° т р	
r.	-5146 Jul 09 j 19:07	30°RM		. ,.	5141 0 + 04 : 10 51	20 m- 21121	0022151
direct	-5146 Aug 04 j 14:58	25°M51'32		conjunction	-5141 Oct 04 j 10:51	3° Mp 21'31	
	-5146 Aug 30 j 22:01 -5146 Nov 03 j 10:16	0° ⋜		minimum elong desc. node	-5141 Oct 04 j 12:27 -5141 Nov 07 j 01:57	3° Mp 24'36 29° Mp 23'17	0 23 38
	-5146 Dec 24 j 02:12	0°≈		desc. Hode	-5141 Nov 07 j 01:37	ე∘ <u>ი</u>	
asc. node	-5145 Feb 03 j 18:21	0 ~ 25° ≈ 36'24		morning rise	-5141 Dec 05 j 16:12	0 — 21° ≏ 46'59	
use. Hode	-5145 Feb 10 j 20:51	0° ∀		morning rise	-5141 Dec 16 j 03:56	0°M	
	-5145 Mar 31 j 03:32	0° Υ			-5140 Jan 23 j 19:43	0° ∡ 7	
	-5145 May 17 j 18:54	0°8			-5140 Mar 03 j 16:59	0°⋜	
evening set	-5145 May 18 j 10:32	0° 8 24'52			-5140 Apr 14 j 17:10	0° ≈	
max. Earth dist.	-5145 Jun 17 j 11:11	19° 8 42'10	2.63844 AU		-5140 May 29 j 22:49	0° ∀	
	-5145 Jul 03 j 05:53	$\Pi^{\circ}0$			-5140 Jul 20 j 05:28	$0^{\circ}\mathbf{\Upsilon}$	
				asc. node	-5140 Sep 25 j 22:31	24° Ƴ 45′25	
conjunction	-5145 Jul 04 j 06:50	0° Ⅱ 40'57	1°06'22	retrograde	-5140 Oct 05 j 02:28	25° Y 16′26	
minimum elong	-5145 Jul 04 j 05:53	0°Ⅱ39′23	1°06'36	opposition	-5140 Nov 13 j 23:53		1°48'00
	-5145 Aug 17 j 02:25	0 \circ \odot		greatest brilliancy	-5140 Nov 13 j 22:45		-1.4m
morning rise	-5145 Aug 19 j 12:16	1°538'47		min. Earth dist.	-5140 Nov 13 j 21:40	15° Ƴ 36'50	0.66993 AU
	-5145 Sep 29 j 05:53	$0^{\circ}\Omega$		direct	-5140 Dec 24 j 09:57	5° Y 47'56	
	-5145 Nov 09 j 21:18	0° mp			-5139 Mar 11 j 06:08	0°8	
	-5145 Dec 20 j 10:42	0° ™			-5139 May 03 j 10:41	0°II	
1 1	-5144 Jan 29 j 14:05	0°M			-5139 Jun 18 j 20:03	0° ©	
desc. node	-5144 Feb 02 j 08:21	2°M48'08			-5139 Jul 31 j 10:48	0° N	
	-5144 Mar 10 j 09:10 -5144 Apr 22 j 23:50	0° ⋜		desc. node	-5139 Sep 09 j 13:29 -5139 Sep 23 j 23:25	0° m) 11° m) 06'09	
	-5144 Apr 22 j 23:30	0°≈		evening set	-5139 Sep 25 j 25:25 -5139 Oct 05 j 22:32	20° m) 24'26	
retrograde	-5144 Jul 23 j 10:00	0 ≈ 8°≈03'24		evening set	-5139 Oct 03 j 22:32 -5139 Oct 18 j 04:29	20° Ω	
min. Earth dist.	-5144 Aug 23 j 12:10	1°≈28'05	0.53108 AU		-5139 Nov 25 j 07:17	0° M ₊	
mm. Earth dist.	-5144 Aug 27 j 09:41	30°R₹	0.55100710		5155 1101 25 j 07.17	0 110	
opposition	-5144 Aug 30 j 18:08	28° ප් 43'26	-4°31'00	conjunction	-5139 Dec 09 j 09:08	11°ML02'00	-0°50'12
greatest brilliancy	-5144 Aug 29 j 16:46	29° る 07'32		minimum elong	-5139 Dec 09 j 05:48	10°M55'29	
direct	-5144 Oct 04 j 19:25	20° る 59'19		C	-5138 Jan 02 j 20:10	0° ∡ ¹	
	-5144 Nov 15 j 10:58	0° ≈		max. Earth dist.	-5138 Jan 22 j 17:46	15° ∡ 09'30	2.40041 AU
asc. node	-5144 Dec 21 j 18:06	16° ≈ 20′22			-5138 Feb 11 j 15:03	0°ರ	
	-5143 Jan 16 j 13:26	0° ∀		morning rise	-5138 Feb 14 j 03:55	1° る 52'08	
	-5143 Mar 09 j 17:27	0 ° $\mathbf{\gamma}$			-5138 Mar 25 j 08:18	0° ≈	
	-5143 Apr 27 j 21:50	9° 8			-5138 May 08 j 12:02	0° ∀	
	-5143 Jun 13 j 19:42	Π°			-5138 Jun 24 j 16:32	0° Υ	
evening set	-5143 Jun 25 j 23:00	8° Ⅲ 00′25		asc. node	-5138 Aug 13 j 22:44	28° Y 58'11	
max. Earth dist.	-5143 Jul 14 j 17:56		2.55606 AU		-5138 Aug 15 j 21:19	0°8	
	-5143 Jul 28 j 10:56	0ං ව		retrograde	-5138 Nov 09 j 21:18	29° 8 09'08	100 (11 2
	5142 4 12:10.56	11062402	1007100	opposition	-5138 Dec 18 j 16:42	20° 8 07'52	4°06'13
conjunction	-5143 Aug 13 j 19:56	11° 5 24'02		greatest brilliancy	-5138 Dec 19 j 03:19 -5138 Dec 22 j 09:30	19° 8 57'27 18° 8 40'44	-1.4m 0.64803 AU
minimum elong	-5143 Aug 13 j 20:58 -5143 Sep 08 j 21:45	0°Ω	1 0743	min. Earth dist. direct	-5137 Jan 28 j 21:02	10° 8 06'55	0.04803 AU
morning rise	-5143 Oct 03 j 22:10	18° Ω 20'13		direct	-5137 Apr 05 j 03:11	0°Ⅱ	
morning risc	-5143 Oct 19 j 12:52	0°Mp			-5137 May 27 j 04:58	0°©	
	-5143 Nov 27 j 21:50	0∘ रु			-5137 Jul 10 j 10:49	$0 {\circ} \Omega$	
desc. node	-5143 Dec 20 j 06:00	0 — 17° Ω 14'36		desc. node	-5137 Aug 11 j 21:25	23° Ω 46′22	
	-5142 Jan 05 j 18:05	0°M			-5137 Aug 20 j 03:29	0° m)	
	-5142 Feb 13 j 22:15	0° ∡ 7			-5137 Sep 28 j 00:29	0∘ ⊽	
	-5142 Mar 26 j 11:45	0°ರ			-5137 Nov 05 j 07:39	0°M	
	-5142 May 09 j 00:11	0° ≈		evening set	-5137 Dec 13 j 04:46	29°M20'08	
	-5142 Jun 28 j 11:19	0°) €		-	-5137 Dec 14 j 01:38	0° ∡ ¹	
retrograde	-5142 Sep 01 j 01:07	20°) 11′15			-5136 Jan 23 j 02:27	ರ°0	
min. Earth dist.	-5142 Oct 07 j 02:38	11°) 45′50	0.62904 AU				
opposition	-5142 Oct 10 j 22:11	10°) (14′02	-1°08'45	conjunction	-5136 Feb 12 j 16:01	14°る54'20	-1°04'36
greatest brilliancy	-5142 Oct 10 j 18:48	10°) 17 ′25	-1.6m	minimum elong	-5136 Feb 12 j 17:35	14° る 57'09	1°04'52
asc. node	-5142 Nov 08 j 19:50	1°) 45′32			-5136 Mar 05 j 00:14	0° ≈	
direct	-5142 Nov 18 j 06:35	1°) 10′23		max. Earth dist.	-5136 Mar 21 j 05:22	11° ≈ 13′08	2.52824 AU
	-5141 Feb 12 j 15:24	0° Υ		morning rise	-5136 Apr 09 j 18:30	24°≈28'18	
	-5141 Apr 07 j 07:13	0° B			-5136 Apr 18 j 01:06	0° ∀ 0° Υ	
	-5141 May 25 j 16:01	0°II			-5136 Jun 03 j 04:55	UĬ	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. 17°**Y**20′21 -5136 Jun 30 j 20:19 -5131 Jul 23 i 19:03 0°M asc. node -5136 Jul 21 j 12:52 0°8 -5131 Sep 28 j 04:35 0°×7 -5136 Sep 11 j 05:44 $\mathbb{I}^{\circ 0}$ -5131 Nov 16 j 05:55 0°궁 -5130 Jan 02 j 11:20 0ಂತಾ 0°**≈** -5136 Nov 14 j 18:23 -5136 Dec 20 j 20:41 6°542'30 -5130 Feb 18 j 18:18 0°**)**€ retrograde -5130 Feb 20 j 09:50 1° # 02'27 -5135 Jan 23 j 02:37 30°R∏ asc. node $0^{\circ}\Upsilon$ opposition -5135 Jan 26 j 08:03 28°**Ⅲ**49'16 5°21'41 -5130 Apr 07 j 07:44 16°**Ƴ**33'10 greatest brilliancy -5135 Jan 27 j 15:32 28°**Ⅲ**20′05 -1.8m evening set -5130 May 03 j 12:19 min. Earth dist. -5135 Feb 02 j 14:03 26°**Ⅲ**08′10 0.56387 AU -5130 May 24 j 15:53 0°8 direct -5135 Mar 07 j 09:41 19°**Ⅲ**19'52 max. Earth dist. -5130 Jun 07 j 16:15 8°**8**58'23 2.65712 AU -5135 Apr 20 j 11:33 0ಂಣ -5135 Jun 13 j 14:18 $0^{\circ}\Omega$ -5130 Jun 19 j 09:19 16°**8**31'07 0°57'35 conjunction -5135 Jun 28 j 20:26 -5130 Jun 19 j 08:03 16°**8**29'05 desc. node 10°**Ω**08'43 minimum elong 0°57'45 -5135 Jul 26 j 22:43 0° m -5130 Jul 10 j 02:48 $0^{\circ}\Pi$ -5135 Sep 05 j 01:11 0∘**⊽** morning rise -5130 Aug 03 j 23:27 16°**Ⅲ**24'51 -5135 Oct 14 j 04:08 0°M -5130 Aug 24 j 05:12 0ಂತಾ -5135 Nov 22 j 15:23 0°**√** -5130 Oct 06 j 19:57 $0^{\circ}\Omega$ -5134 Jan 02 j 08:28 0°る -5130 Nov 18 j 03:29 0° m evening set -5134 Feb 08 j 06:52 26°る08'50 -5130 Dec 29 j 13:07 0∘**ত** -5134 Feb 13 j 20:30 0°≈ -5129 Feb 08 j 18:12 0°M -5134 Mar 30 j 06:22 0°**)**€ desc. node -5129 Feb 19 j 00:45 7°M23'47 -5129 Mar 23 i 06:32 0°×7 conjunction -5134 Apr 02 j 15:32 2° \(\mathbf{1}\) 14'10 -0°25'53 -5129 May 10 j 17:03 0°궁 minimum elong -5134 Apr 02 j 16:40 2°\ 16'03 0°26'01 retrograde -5129 Jul 06 i 01:01 17°る45'43 max. Earth dist. -5134 Apr 20 j 23:46 14°**)** 16′00 2.62402 AU min. Earth dist. -5129 Aug 03 j 22:56 12°る03'41 0.48184 AU -5134 May 15 j 07:38 $0^{\circ}\Upsilon$ -5129 Aug 10 j 13:05 9°₹42'50 -2.2m greatest brilliancy -5134 May 18 j 17:19 2°Y11'03 opposition -5129 Aug 12 j 00:38 9°**ප**10'58 -5°41'17 asc. node -5134 May 22 j 08:58 4°Υ31'27 -5129 Sep 14 j 09:54 2°る12'25 direct morning rise -5134 Jul 01 j 12:23 0°8 -5129 Dec 05 j 00:33 0°≈ -5134 Aug 18 j 13:26 $\mathbb{I}^{\circ 0}$ -5128 Jan 08 j 09:06 18°≈53'55 asc. node -5134 Oct 06 j 22:03 0000 -5128 Jan 27 j 13:30 0°) $0^{\circ}\Omega$ -5134 Nov 29 j 07:11 $0^{\circ}\Upsilon$ -5128 Mar 17 j 16:35 0°8 -5133 Feb 16 j 04:38 25°**Ω**53'24 -5128 May 05 j 02:44 retrograde 19°**Ω**50′54 3°34′24 -5133 Mar 20 j 20:40 -5128 Jun 10 j 04:42 23°**8**04'52 opposition evening set -5133 Mar 22 j 00:30 19°**Ω**29'03 -2.5m -5128 Jun 20 j 18:55 greatest brilliancy $0^{\circ}\Pi$ -5133 Mar 28 j 18:02 17°**Ω**23'31 0.43742 AU -5128 Jul 02 j 22:34 8°**Д**01'22 2.59409 AU min. Earth dist. max. Earth dist. direct -5133 Apr 25 j 06:04 12°**Ω**36'45 desc. node -5133 May 16 j 21:51 15°**Ω**39'59 conjunction -5128 Jul 27 j 20:28 24°II47'10 1°11'25 -5133 Jun 20 j 06:08 0° m minimum elong -5128 Jul 27 j 20:34 24°**Ⅱ**47'20 1°11'41 -5133 Aug 07 j 15:06 0∘**⊽** -5128 Aug 04 j 11:19 0ಂತಾ -5133 Sep 19 j 05:44 0°M morning rise -5128 Sep 14 j 08:52 28°9543'36 -5133 Oct 30 j 22:49 0°×7 -5128 Sep 16 j 03:26 $0^{\circ}\Omega$ -5133 Dec 12 j 08:15 0°る -5128 Oct 27 j 02:16 0° m -5132 Jan 25 j 03:05 -5128 Dec 05 j 19:51 0°≈ 0°Ω 0°**)**€ -5127 Jan 06 j 00:37 23°**♀**52'23 -5132 Mar 10 j 10:24 desc. node evening set -5132 Mar 24 i 20:38 9° **)** 22'24 -5127 Jan 14 i 00:41 0°M asc. node -5132 Apr 04 j 13:01 16°**¥**16'30 -5127 Feb 22 i 14:18 0°×7 -5132 Apr 25 j 21:58 $0^{\circ}\Upsilon$ -5127 Apr 04 i 18:38 0°정 -5127 May 19 j 21:52 0°≈ -5132 May 12 j 12:48 10°**Υ**'37'28 0°21'06 -5127 Jul 19 j 00:21 0°**₩** conjunction -5132 May 12 j 12:02 10°**Υ**36'14 0°21'08 -5127 Aug 17 j 14:01 5°\ 16'29 minimum elong retrograde max. Earth dist. -5132 May 14 j 19:39 12°Υ04'59 2.66762 AU -5127 Sep 14 j 04:07 30°R≈ 27°≈28'45 0.59691 AU -5132 Jun 11 j 21:32 0°8 min. Earth dist. -5127 Sep 20 j 20:40 morning rise -5132 Jun 27 j 16:55 10°**8**06'05 opposition -5127 Sep 26 j 02:15 25°≈24'15 -2°25'51 -5127 Sep 25 j 16:15 25°**≈**34'10 -1.7m -5132 Jul 28 j 17:00 $\mathbb{I}^{\circ 0}$ greatest brilliancy -5132 Sep 12 j 23:42 0000 direct -5127 Nov 02 j 07:03 16°≈46'17 -5132 Oct 28 j 19:26 $0^{\circ}\Omega$ -5127 Nov 25 j 09:49 19°≈47'39 asc. node -5132 Dec 13 j 17:30 0° m -5127 Dec 25 j 06:38 0°\ 0∘<u></u>Ω -5126 Feb 23 j 02:11 $0^{\circ}\Upsilon$ -5131 Jan 30 j 05:44 0°M -5126 Apr 15 j 08:43 0°8 -5131 Mar 28 j 06:38 $0^{\circ}\Pi$ desc. node -5131 Apr 03 j 00:27 2°M08'48 -5126 Jun 02 j 00:13 retrograde -5131 May 04 j 17:25 8°M11'16 -5126 Jul 16 j 19:18 0ಂತಾ min. Earth dist. -5131 Jun 01 j 21:02 3°M35'38 0.38090 AU evening set -5126 Jul 22 j 11:40 3°956'09 opposition -5131 Jun 04 j 21:50 2°M46'14 -4°29'12 max. Earth dist. -5126 Aug 06 j 19:35 14°541'59 2.48592 AU greatest brilliancy -5131 Jun 04 j 07:56 2°M55'41 -2.9m -5126 Aug 28 j 02:33 0° Ω -5131 Jun 15 j 18:52 30°R <u>Ω</u> direct -5131 Jul 04 j 18:50 27°**£**44′20 -5126 Sep 12 j 13:30 11°Ω21'03 0°47'01 conjunction

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 28 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	ie year -5399 i	in astronomical cou	inting style is the year	5400 BCE in historical c	ounting style.	
minimum elong	-5126 Sep 12 j 15:37	11° Ω 24'58	0°47'13		-5121 Sep 24 j 01:32	Π °0	
	-5126 Oct 07 j 10:08	0° ™		retrograde	-5121 Dec 04 j 08:38	21° Ⅲ 28′10	
morning rise	-5126 Nov 08 j 18:53	24° m 51'11		opposition	-5120 Jan 10 j 22:09		5°03'32
	-5126 Nov 15 j 09:58	0∘ ⊽		greatest brilliancy	-5120 Jan 11 j 21:20		-1.6m
desc. node	-5126 Nov 23 j 21:51	6° ₽ 36'53		min. Earth dist.	-5120 Jan 16 j 20:42	10° Ⅱ 47'58	0.60386 AU
	-5126 Dec 23 j 20:57	0°M₊		direct	-5120 Feb 20 j 17:11	3° Ⅱ 14'07	
	-5125 Jan 31 j 15:48	0° ∡			-5120 May 07 j 22:27	0ංම	
	-5125 Mar 12 j 16:25	0°ප			-5120 Jun 24 j 12:38	0 ° Ω	
	-5125 Apr 24 j 00:01	0° ≈		desc. node	-5120 Jul 15 j 13:54	14° Ω 47'07	
	-5125 Jun 09 j 06:13	0° ∀			-5120 Aug 05 j 08:24	0° m)	
	-5125 Aug 04 j 13:06	0° Υ			-5120 Sep 13 j 18:36	0∘ ত	
retrograde	-5125 Sep 22 j 16:50	12° Y 14'34			-5120 Oct 22 j 10:42	0° M -	
asc. node	-5125 Oct 13 j 11:37	9° Y 18'50			-5120 Nov 30 j 12:42	0° ∡ 7	
min. Earth dist.	-5125 Oct 31 j 03:42	3° Y ′00'48	0.66122 AU		-5119 Jan 09 j 21:21	0°ठ	
opposition	-5125 Nov 01 j 17:10	2° Y ′23'03	0°43'52	evening set	-5119 Jan 18 j 12:45	6° る 15'39	
greatest brilliancy	-5125 Nov 01 j 15:48	2° Y ′24'26	-1.4m		-5119 Feb 21 j 01:58	0° ≈	
	-5125 Nov 07 j 17:14	30° ₹					
direct	-5125 Dec 11 j 11:01	22°) (49'49		conjunction	-5119 Mar 15 j 16:59	15° ≈ 31'26	
	-5124 Jan 18 j 00:30	0° Υ		minimum elong	-5119 Mar 15 j 18:49	15° ≈ 34'32	0°43'45
	-5124 Mar 22 j 06:25	0°B			-5119 Apr 06 j 06:46	0° \	
	-5124 May 11 j 19:38	0°П		max. Earth dist.	-5119 Apr 10 j 03:12		2.59252 AU
	-5124 Jun 26 j 11:45	0°99		morning rise	-5119 May 06 j 18:44	20° ∺ 00'09	
	-5124 Aug 07 j 21:42	0°N			-5119 May 22 j 07:02	0°Υ	
evening set	-5124 Sep 11 j 13:16	25° Ω 50'32		asc. node	-5119 Jun 04 j 09:25	8° Υ 21'46	
	-5124 Sep 17 j 00:08	0° m)			-5119 Jul 08 j 18:34	0° B	
desc. node	-5124 Oct 10 j 17:24	18° Mp 18'50			-5119 Aug 26 j 18:10	0°II	
D d F	-5124 Oct 25 j 16:17	0° ⊽	2 27702 444		-5119 Oct 17 j 18:31	0°©	
max. Earth dist.	-5124 Nov 03 j 01:54	6° <u>11</u> 35'45	2.37793 AU		-5119 Dec 23 j 13:09	0° N	
	5104N 11:10.55	120 0 20120	0022100	retrograde	-5118 Jan 22 j 05:19	4° Ω 44'39	
conjunction	-5124 Nov 11 j 19:55	13° Ω 28'38		•,•	-5118 Feb 19 j 03:02	30°Rூ	4054140
minimum elong	-5124 Nov 11 j 17:54	13° Ω 24'40	0°23'10	opposition	-5118 Feb 25 j 12:21	27°553'25	
	-5124 Dec 02 j 20:02	0°M		greatest brilliancy	-5118 Feb 27 j 01:16	27°521'44	-2.2m
	-5123 Jan 10 j 09:06	0° √ 7		min. Earth dist.	-5118 Mar 05 j 22:35	25°501'01	0.48820 AU
morning rise	-5123 Jan 18 j 07:16	6° ∡ 704'17		direct	-5118 Apr 04 j 06:59	19° © 29'39	
	-5123 Feb 19 j 03:32	0° 3		J J.	-5118 May 16 j 18:53	0°Ω	
	-5123 Apr 01 j 21:04	0° ≫ 0°) (desc. node	-5118 Jun 02 j 13:45	8° Ω 16'41	
	-5123 May 16 j 06:00	0° Υ 0° Υ			-5118 Jul 08 j 06:38	0° െ 0°ആ	
	-5123 Jul 03 j 08:02	0°8			-5118 Aug 20 j 00:46		
aga mada	-5123 Aug 28 j 14:11	0° 8 53'14			-5118 Sep 29 j 13:33 -5118 Nov 09 j 00:55	0° M 0° <i>≯</i> 7	
asc. node	-5123 Aug 30 j 13:31 -5123 Oct 26 j 14:36	16° 8 01'18			•	0°る	
retrograde	-5123 Oct 26 j 14.36 -5123 Dec 04 j 23:08	6° 8 41'25	3°17'59		-5118 Dec 20 j 13:19 -5117 Feb 01 j 16:33	0°≈	
opposition	-5123 Dec 04 j 23:08	6° 8 37'05	-1.4m	avanina aat		0 ≈ 23°≈49'49	
greatest brilliancy min. Earth dist.	-5123 Dec 03 j 03.31 -5123 Dec 07 j 04:07	5° 8 48'48	-1.4III 0.66414 AU	evening set	-5117 Mar 09 j 04:41 -5117 Mar 18 j 13:12	23 ≈ 4949 0° ∺	
iiiii. Eartii tiist.	-5123 Dec 07 j 04.07	30°RY	0.00414 AU	asc. node	-5117 Mai 18 j 15:12 -5117 Apr 22 j 05:39	22° ∺ 33'58	
direct	-5123 Dec 25 j 11.32 -5122 Jan 15 j 00:26	26° Υ 42'06		asc. node	-311/Apr 22 J 03.39	22 1 33 36	
direct	-5122 Feb 08 j 08:03	0° 8		conjunction	5117 Apr 28 i 07:11	26° ¥ 28'17	0°03'29
	-5122 Feb 08 j 08:03	0°U		conjunction minimum elong	-5117 Apr 28 j 07:11 -5117 Apr 28 j 07:01	26° ∺ 28'17 26° ∺ 28'00	0°03'29 0°03'27
	-5122 Apr 17 j 13:11 -5122 Jun 05 j 07:51	0°©		behind sun begin	-5117 Apr 28 j 07:01 -5117 Apr 27 j 11:16	25°\(\frac{1}{2}500\)	0 0327
	-5122 Jul 18 j 16:44	0°Ω		behind sun end	-5117 Apr 29 j 02:46	26° X 59'44	
desc. node	-5122 Jul 18 j 16.44 -5122 Aug 28 j 14:28	0° Mp 24'22		ocimia suil cha	-5117 Apr 29 j 02.46	20 χ 3944 0° Υ	
desc. flode	-5122 Aug 28 j 01:41	0°m/2422		max. Earth dist.	-5117 May 05 j 15:01	1° Υ 49'49	2.65710 AU
	-5122 Aug 28 j 01:41 -5122 Oct 05 j 18:57	0∘ ت المان		morning rise	-5117 Jun 14 j 11:14	26° Υ 37'00	2.03/10 AU
	-5122 Nov 12 j 23:11	0° m		morning rise	-5117 Jun 19 j 18:48	0° 8	
evening set	-5122 Nov 12 j 23.11 -5122 Nov 16 j 17:37	2°M57'13			-5117 Juli 19 j 18:48	0°II	
evening set	-5122 Nov 16 j 17.37 -5122 Dec 21 j 14:02	2 1163/13 0° x 7			-5117 Aug 05 j 22.37 -5117 Sep 22 j 01:35	0°©	
	-3122 Dec 21 J 14.02	0 🗴			-5117 Sep 22 j 01:35	0° U	
conjunction	-5121 Jan 20 j 01:23	22° ∡ 17'08	-1°08'30		-5117 Nov 08 j 14.24 -5117 Dec 28 j 03:52	0°m)	
minimum elong	-5121 Jan 20 j 01:23	22° x '17'08 22° x '16'43			-5117 Dec 28 j 03:52 -5116 Feb 26 j 06:54	0∘ ত میاآث	
mminum ciong	-5121 Jan 20 j 01:09	22 x・1043	1 00 30	retrograde	-5116 Apr 03 j 07:33	ი <u></u> 7° 235'31	
max. Earth dist.	-5121 Jan 30 j 11:23		2.47928 AU	desc. node		5° £ 57'26	
max. Latui Uist.	-5121 Mar 05 j 25:57	24°€3408 0°≈	4.41340 AU	opposition	-5116 Apr 19 j 16:12 -5116 May 03 j 21:36	2° £ 37′26	1905/02
morning rise	-5121 Mar 13 j 05:57 -5121 Mar 22 j 04:18	0°≈ 6°≈13'04		greatest brilliancy	-5116 May 03 j 21:36	2° £ 31'11	
morning rise	-5121 Mar 22 j 04:18 -5121 Apr 26 j 05:54	0° ∺		min. Earth dist.	-5116 May 05 j 23:11 -5116 May 06 j 07:33	1° £ 52'01	-2.9m 0.38194 AU
	-5121 Apr 26 J 05:34 -5121 Jun 11 j 15:00	0° Υ 0° Υ		mm. Earm dist.	-5116 May 06 J 07:33	30°R, M)	0.30134 AU
asc. node	-5121 Jul 18 j 12:58	0 γ 22° Υ 41'26		direct	-5116 May 13 j 13.31	30 หูแม่ 27° Mg 10'56	
asc. noue	-5121 Jul 18 j 12:58 -5121 Jul 30 j 21:06	0° 8		unect	-5116 Jun 03 j 23:37 -5116 Jun 24 j 21:12	0° ت 0° ت	
	-3121 Jul 30 J 21.00	υ Ο			-5110 Juli 24 J 21.12	v ==	

-	ical year style is used: Th		•	, ·		, ,	5 2)
,	-5116 Aug 26 j 20:30	0° M ,		morning rise	-5111 Oct 16 j 01:25	0° m) 57'43	
	-5116 Oct 12 j 14:54	0° ∡ ¹		C	-5111 Nov 23 j 00:22	0∘ <u>⊽</u>	
	-5116 Nov 26 j 15:23	ರ°0		desc. node	-5111 Dec 10 j 15:43	13° ≙ 40′00	
	-5115 Jan 11 j 00:23	0° ≈			-5111 Dec 31 j 16:44	0°M	
	-5115 Feb 26 j 07:29	0° ∀			-5110 Feb 08 j 16:38	0° ∡ ¹	
asc. node	-5115 Mar 09 j 01:46	6° ¥ 53'43			-5110 Mar 20 j 23:49	0°ರ	
	-5115 Apr 14 j 08:10	0° Y			-5110 May 02 j 21:36	0° ≈	
evening set	-5115 Apr 18 j 11:26	2° Y 37'41			-5110 Jun 20 j 03:15	0° ∀	
max. Earth dist.	-5115 May 29 j 07:30	28° Y '37'06	2.66779 AU	retrograde	-5110 Sep 09 j 01:55	28°) 42′04	
	-5115 May 31 j 11:24	0° 8		min. Earth dist.	-5110 Oct 16 j 00:47	19° ¥ 58'08	0.64300 AU
				opposition	-5110 Oct 19 j 01:07	18°) 45′20	-0°25'59
conjunction	-5115 Jun 04 j 17:53	2° 8 43'48	0°45'27	greatest brilliancy	-5110 Oct 19 j 00:10	18°) 46′17	-1.5m
minimum elong	-5115 Jun 04 j 16:36	2° 8 41'45	0°45'34	asc. node	-5110 Oct 30 j 02:33	14°) 31′55	
_	-5115 Jul 17 j 00:18	$\Pi^{\circ}0$		direct	-5110 Nov 26 j 22:09	9° ∺ 29'57	
morning rise	-5115 Jul 20 j 04:39	2° Ⅱ 04'30			-5109 Feb 04 j 14:16	0° Υ	
	-5115 Aug 31 j 11:20	0ಂತಾ			-5109 Apr 01 j 15:18	0°B	
	-5115 Oct 14 j 17:56	$0^{\circ}\Omega$			-5109 May 20 j 16:20	$\Pi^{\circ}0$	
	-5115 Nov 27 j 00:43	0° m)			-5109 Jul 04 j 21:44	0° ©	
	-5114 Jan 08 j 18:18	0∘ <u>v</u>			-5109 Aug 16 j 05:39	$0^{\circ}\Omega$	
	-5114 Feb 20 j 23:06	0° M ,		evening set	-5109 Aug 21 j 14:52	3° Ω 56'32	
desc. node	-5114 Mar 07 j 19:23	9° M 57'46		max. Earth dist.	-5109 Sep 12 j 04:11		2.41080 AU
	-5114 Apr 08 j 19:43	0° ∡ 7			-5109 Sep 25 j 09:17	0° m)	
retrograde	-5114 Jun 14 j 20:47	23° × 751'47			3103 Sep 23 j 03.17	۷	
min. Earth dist.	-5114 Jul 12 j 00:16	18° × 59'40	0.43237 AU	conjunction	-5109 Oct 17 j 22:05	17° m) 21'03	0°07'44
greatest brilliancy	-5114 Jul 18 j 04:42	16° ₹ ′59'11	-2.5m	minimum elong	-5109 Oct 17 j 22:42	17° Mp 22'15	0°07'49
opposition	-5114 Jul 19 j 20:13	16° ∡ 726'54		behind sun begin	-5109 Oct 16 j 23:40	16° Mp 37'35	0 07 15
direct	-5114 Aug 20 j 09:33	10° × 20'34	0 20 10	behind sun end	-5109 Oct 18 j 21:44	18° m) 06'57	
uncet	-5114 Oct 23 j 21:29	0°る		desc. node	-5109 Oct 28 j 12:24	25° m/35'52	
	-5114 Dec 17 j 09:14	0° ≈		desc. flode	-5109 Nov 03 j 03:37	0∘ ⊽	
asc. node	-5113 Jan 24 j 23:25	0 ∞ 23°≈03'31			-5109 Nov 03 j 03:37	0° ™	
asc. node	-5113 Jan 24 j 25.25 -5113 Feb 05 j 09:41	0° ∺		morning rise	-5109 Dec 21 j 15:53	8°ML02'55	
	-5113 Mar 26 j 05:36	0° Υ		morning rise	-5109 Dec 21 j 15.53 -5108 Jan 18 j 23:09	0° √	
	-5113 May 13 j 02:57	0°8			-5108 Jah 18 j 25:09 -5108 Feb 27 j 18:19	0°る	
avanina aat	-5113 May 13 j 02.57	8° 8 51'45			•	0°≈	
evening set	-5113 May 27 J 00.30 -5113 Jun 23 j 07:55		2.62478 AU		-5108 Apr 09 j 14:17 -5108 May 24 j 09:15	0 ≈ 0° ∺	
max. Earth dist.		26 G 30 32 0°耳	2.02478 AU			0 K 0°Υ	
	-5113 Jun 28 j 15:51	υц		aga mada	-5108 Jul 13 j 01:00	29° Υ '08'00	
:	5112 I-1 12:00.44	9° Ⅱ 29'27	1900127	asc. node	-5108 Sep 16 j 04:40		
conjunction	-5113 Jul 13 j 00:44			. 1	-5108 Sep 19 j 11:36	0°8	
minimum elong	-5113 Jul 13 j 00:06	9° Ⅱ 28'24	1-09-51	retrograde	-5108 Oct 12 j 21:36	3° 8 07'13	
	-5113 Aug 12 j 10:58	0°9		• • •	-5108 Nov 03 j 14:48	30° ₹ Υ	2922152
morning rise	-5113 Aug 28 j 20:32	11°5518'10		opposition	-5108 Nov 21 j 15:06		2°22'52
	-5113 Sep 24 j 10:25	0° N		greatest brilliancy	-5108 Nov 21 j 15:16	23° Y 32'05	-1.3m
	-5113 Nov 04 j 19:37	0° Mp		min. Earth dist.	-5108 Nov 22 j 08:26	23° Y 14'54	0.67050 AU
	-5113 Dec 15 j 01:22	0° ⊽		direct	-5107 Jan 01 j 07:28	13° Y 39'53	
desc. node	-5112 Jan 23 j 18:33	29° £ 58'46			-5107 Mar 02 j 12:37	0°B	
	-5112 Jan 23 j 19:13	0° M ₊			-5107 Apr 27 j 13:54	0°II	
	-5112 Mar 04 j 00:40	0° ∡ 7			-5107 Jun 13 j 16:14	0°99	
	-5112 Apr 15 j 09:21	0°ප			-5107 Jul 26 j 13:07	0 $^{\circ}\Omega$	
_	-5112 Jun 03 j 08:32	0° ≈			-5107 Sep 04 j 18:10	0° m)	
retrograde	-5112 Aug 01 j 23:59	18° ≈ 46′22		desc. node	-5107 Sep 14 j 08:45	7° m 22'23	
min. Earth dist.	-5112 Sep 03 j 06:25	11° ≈ 43'17	0.55618 AU		-5107 Oct 13 j 10:08	0∘ ত	
opposition	-5112 Sep 09 j 20:06	9° ≈ 10'42		evening set	-5107 Oct 20 j 16:52	5° ≏ 43'13	
greatest brilliancy	-5112 Sep 09 j 00:46	9° ≈ 29'27	-1.9m		-5107 Nov 20 j 13:15	0° M	
direct	-5112 Oct 15 j 16:36	1° ≈ 05′20					
asc. node	-5112 Dec 11 j 23:54	16° ≈ 24′10		conjunction	-5107 Dec 24 j 20:44	26°M44'39	-1°00'44
	-5111 Jan 09 j 03:10	0° ∀		minimum elong	-5107 Dec 24 j 18:03	26°M39'27	1°00'56
	-5111 Mar 04 j 03:58	0° Y			-5107 Dec 29 j 02:16	0° ∡ 7	
	-5111 Apr 22 j 23:35	9° 8			-5106 Feb 06 j 21:11	ರ∘ರ	
	-5111 Jun 09 j 03:37	Π °0		max. Earth dist.	-5106 Feb 11 j 11:44	3° る 23'28	2.42730 AU
evening set	-5111 Jul 05 j 07:13	17° Ⅲ 21′03		morning rise	-5106 Feb 27 j 23:39	15° ට 22'55	
max. Earth dist.	-5111 Jul 22 j 09:12	28° Ⅱ 59'09	2.53249 AU		-5106 Mar 20 j 13:35	0° ≈	
	-5111 Jul 23 j 20:33	0ංම			-5106 May 03 j 14:20	0° ∀	
					-5106 Jun 19 j 08:54	0° Y	
conjunction	-5111 Aug 24 j 02:24	21°957'15	1°02'11	asc. node	-5106 Aug 04 j 04:38	27° Y 13'53	
minimum elong	-5111 Aug 24 j 03:56	21° © 59'59	1°02'26		-5106 Aug 09 j 03:14	9° 8	
	-5111 Sep 04 j 06:24	$0^{\circ}\Omega$			-5106 Oct 11 j 15:19	$\Pi^{\circ}0$	
	-5111 Oct 14 j 18:50	0° m)		retrograde	-5106 Nov 18 j 11:08	7° Ⅱ 19'20	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 30 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5106 Dec 22 j 23:24 30°R₩ -5101 Sep 12 j 00:07 0°M -5106 Dec 26 j 21:00 28°**8**29'59 4°30'15 -5101 Oct 24 j 19:27 0°×7 opposition -5106 Dec 27 j 11:52 28°**8**15'30 -5101 Dec 06 j 20:45 0°궁 greatest brilliancy -1.5m min. Earth dist. 0°**≈** -5106 Dec 31 j 09:13 26°844'34 0.63488 AU -5100 Jan 20 j 01:37 -5105 Feb 05 j 23:52 0°) direct 18°**8**30'36 -5100 Mar 05 j 15:30 -5105 Mar 25 j 14:56 $0^{\circ}\Pi$ asc. node -5100 Mar 25 j 17:45 12°**X** 59'21 0ಂತಾ -5105 May 20 j 19:27 evening set -5100 Apr 03 j 00:35 18° **€** 18'50 $0^{\circ}\Omega$ 0° -5105 Jul 04 j 22:27 -5100 Apr 21 j 06:36 18°**Y**28'18 2.67002 AU desc. node -5105 Aug 02 j 06:41 20°**Ω**30'58 max. Earth dist. -5100 May 20 j 05:26 -5105 Aug 14 j 22:55 0° M 19°**Y**01'16 0°30'40 -5105 Sep 22 j 23:50 0∘**⊽** conjunction -5100 May 21 j 02:07 -5105 Oct 31 j 09:25 -5100 May 21 j 01:05 18° **Y**59'37 0°M minimum elong 0°30'45 -5100 Jun 07 j 06:58 -5105 Dec 09 j 05:25 0°**∡**¹ 0°8 evening set -5105 Dec 27 j 10:00 13°**∡**¹45'16 morning rise -5100 Jul 05 j 20:54 18°818'50 -5104 Jan 18 j 08:12 0°ರ -5100 Jul 23 j 23:42 $0^{\circ}\Pi$ -5100 Sep 07 j 22:23 0ಂತಾ conjunction -5104 Feb 24 j 22:24 26°る56'27 -0°58'26 -5100 Oct 23 j 02:31 $0^{\circ}\Omega$ minimum elong -5104 Feb 25 j 00:22 26°る59'54 0°58'40 -5100 Dec 06 j 19:55 0° m -5104 Feb 29 j 07:21 0°≈ -5099 Jan 20 j 22:07 0∘**ত** max. Earth dist. -5104 Mar 28 j 23:39 19°≈41'31 2.55320 AU -5099 Mar 10 j 00:36 0°M -5104 Apr 13 j 08:34 0°**∀** desc. node -5099 Mar 24 j 11:09 7°M57'13 morning rise -5104 Apr 20 j 00:28 4° **)** 25'14 retrograde -5099 May 20 i 19:50 25°M48'11 -5104 May 29 i 09:38 $0^{\circ}\Upsilon$ min. Earth dist. -5099 Jun 16 i 19:50 21°M19'55 0.39338 AU asc. node -5104 Jun 21 i 02:22 14°Υ21'29 greatest brilliancy -5099 Jun 21 i 02:58 20°M05'39 -2.8m-5104 Jul 16 i 07:57 0°8 -5099 Jun 22 j 06:06 19°M45'58 -5°42'49 opposition -5104 Sep 04 j 18:20 $0^{\circ}II$ -5099 Jul 22 j 11:57 14°ML28'57 direct -5104 Nov 01 j 02:24 0ಂತಾ -5099 Sep 15 j 08:20 0°×7 -5104 Dec 31 j 18:24 -5099 Nov 08 j 16:44 0°궁 retrograde 16°929'57 -5099 Dec 27 j 13:26 -5103 Feb 05 j 12:22 8°956'24 5°21'29 0°≈ opposition -5103 Feb 06 j 23:24 -5098 Feb 10 j 15:33 greatest brilliancy 8°\$24'35 -1.9m 28°≈09'19 asc. node -5098 Feb 13 j 14:22 0°) min. Earth dist. -5103 Feb 13 j 08:09 6°906'23 0.53862 AU -5098 Apr 02 j 12:39 $0^{\circ}\Upsilon$ -5103 Mar 10 j 20:06 30°R∏ 29°**Ⅱ**44'32 24°Y56'47 direct -5103 Mar 16 j 22:44 -5098 May 12 j 02:09 evening set -5103 Mar 23 j 03:30 -5098 May 20 j 00:52 0°8 000 -5103 Jun 05 j 12:16 $0^{\circ}\Omega$ -5098 Jun 13 j 07:37 max. Earth dist. 15°**8**33'51 2.64787 AU -5103 Jun 19 j 07:44 desc. node 8°**Ω**40′51 25°801'09 1°03'07 -5098 Jun 27 j 21:32 -5103 Jul 20 j 13:02 0° m conjunction -5103 Aug 30 j 06:55 0∘**⊽** minimum elong -5098 Jun 27 j 20:25 24°**8**59'20 1°03'20 -5103 Oct 08 j 18:26 0°M -5098 Jul 05 j 12:31 $0^{\circ}\Pi$ -5103 Nov 17 j 11:45 0°**√** morning rise -5098 Aug 12 j 18:05 25°**Ⅲ**25'20 -5103 Dec 28 j 09:50 0°ರ -5098 Aug 19 j 12:20 0ಂತಾ -5102 Feb 09 j 01:40 -5098 Oct 01 j 21:32 $0^{\circ}\Omega$ -5102 Feb 19 j 06:40 6°≈59'09 -5098 Nov 12 j 20:14 evening set 0° m -5102 Mar 25 j 14:18 0°**)**€ -5098 Dec 23 j 18:16 0°Ω -5097 Feb 02 j 07:18 0°M conjunction -5102 Apr 12 j 07:31 11°\(\dagger)38'15 -0°15'06 desc. node -5097 Feb 09 i 12:08 5°**™**18'04 -5102 Apr 12 j 08:10 11°**X**39'19 0°15'12 -5097 Mar 15 j 16:05 0°×7 minimum elong 0°る behind sun begin -5102 Apr 12 j 02:46 11°**)**€30'30 -5097 Apr 29 j 14:31 behind sun end -5102 Apr 12 j 13:35 11°**)**(48'08 -5097 Jul 13 i 00:54 0°≈ max. Earth dist. -5102 Apr 26 j 21:46 21°₩07'16 2.63824 AU -5097 Jul 16 i 20:03 0°≈06'09 retrograde asc. node -5102 May 08 j 21:56 28°¥52'02 -5097 Jul 20 j 14:12 30°Rる -5102 May 10 j 16:13 $0^{\circ}\Upsilon$ min. Earth dist. -5097 Aug 15 j 22:24 23°る53'57 0.50938 AU -5102 May 30 j 23:06 12°Y58'58 -5097 Aug 22 j 08:37 21°る31'21 -2.1m morning rise greatest brilliancy -5102 Jun 26 j 18:18 0°8 opposition -5097 Aug 23 j 14:39 21°る03'25 -5°03'18 -5097 Sep 26 j 22:41 13°**る**38'26 -5102 Aug 13 j 10:03 $0^{\circ}II$ direct -5097 Nov 24 j 20:51 -5102 Sep 30 j 18:37 0000 0°≈ -5102 Nov 20 j 05:45 $0^{\circ}\Omega$ -5097 Dec 29 j 15:03 17°≈28'37 asc. node -5101 Jan 19 j 01:15 0° m -5096 Jan 21 j 05:57 0°) -5101 Mar 04 j 06:00 -5096 Mar 12 j 10:47 $0^{\circ}\Upsilon$ retrograde 9° m 57'05 -5096 Apr 30 j 07:17 0°8 opposition -5101 Apr 04 j 21:17 4° Mp 21'22 2°14'38 $0^{\circ}\Pi$ greatest brilliancy -5101 Apr 05 j 13:42 4° Mp 09'16-2.7m -5096 Jun 16 j 03:33 min. Earth dist. -5101 Apr 11 j 14:16 2° m/23'05 0.41263 AU evening set -5096 Jun 19 j 03:26 1°**Ⅲ**57'57 -5101 Apr 20 j 16:40 30°R€ max. Earth dist. -5096 Jul 09 j 16:33 15°**Ц**37'05 2.57393 AU desc. node -5101 May 07 j 09:20 27°**Ω**52'10 -5096 Jul 30 j 20:17 0ಂತಾ direct -5101 May 08 j 18:08 27°**Ω**51'25 -5101 May 26 j 17:27 0° m -5096 Aug 06 j 09:28 4°931'13 1°09'55 conjunction

-5096 Aug 06 j 10:05

4°532'17 1°10'11

minimum elong

-5101 Jul 28 j 23:57

0∘**⊽**

•	nical year style is used: Th		•	* * ·		, ,	0 31
,	-5096 Sep 11 j 10:34	0°N		greatest brilliancy	-5091 Dec 13 j 02:51	14° 8 39'15	-1.4m
morning rise	-5096 Sep 25 j 04:52	9° Ω 59'24		min. Earth dist.	-5091 Dec 15 j 19:47	13° 8 35'06	0.65653 AU
	-5096 Oct 22 j 05:49	0° m)		direct	-5090 Jan 22 j 22:22	4° 8 45'52	
	-5096 Nov 30 j 19:03	0∘ ⊽			-5090 Apr 10 j 02:23	Π $^{\circ}0$	
desc. node	-5096 Dec 27 j 10:21	20° م 29'04			-5090 May 30 j 15:02	0 \circ \odot	
	-5095 Jan 08 j 18:56	0° M			-5090 Jul 13 j 12:44	0 $^{\circ}$ Ω	
	-5095 Feb 17 j 02:17	0° ∡ ¹		desc. node	-5090 Aug 19 j 01:29	26° Ω 55'44	
	-5095 Mar 29 j 20:12	ರ∘ರ			-5090 Aug 23 j 02:42	0° ™	
	-5095 May 12 j 19:37	0° ≈			-5090 Sep 30 j 22:26	0∘ ⊽	
	-5095 Jul 04 j 13:17	0° ∀			-5090 Nov 08 j 04:02	0° M	
retrograde	-5095 Aug 26 j 00:05	14° ¥ 23′52		evening set	-5090 Dec 01 j 20:00	18° ™ 26'59	
min. Earth dist.	-5095 Sep 30 j 06:51		0.61566 AU		-5090 Dec 16 j 19:44	0° ⊀ ⁷	
opposition	-5095 Oct 04 j 17:43	4°) €27'39			-5089 Jan 25 j 17:51	0°₹	
greatest brilliancy	-5095 Oct 04 j 11:51	4°) €33'31	-1.6m		5000 F 1 00 110 00	50750105	1005121
1.	-5095 Oct 16 j 16:31	30°R≈		conjunction	-5089 Feb 02 j 18:26	5° る 52'35	
direct	-5095 Nov 11 j 13:49	25°≈34'51		minimum elong	-5089 Feb 02 j 19:25	5° る 54'23	1°0'/'48
asc. node	-5095 Nov 15 j 16:24	25°≈41'11		P. d. F.	-5089 Mar 08 j 12:41	0° ≈	2.50601.444
	-5095 Dec 10 j 02:46	0°) €		max. Earth dist.	-5089 Mar 15 j 20:09	5°≈05'51	2.50681 AU
	-5094 Feb 16 j 12:04	0° ႘ 0° Ƴ		morning rise	-5089 Apr 02 j 15:10	17° ≈ 19'06 0°) €	
	-5094 Apr 10 j 01:57 -5094 May 28 j 04:15	0°II			-5089 Apr 21 j 11:36 -5089 Jun 06 j 15:59	0 K 0°Υ	
	-5094 Jul 12 j 02:56	0°©		asc. node	-5089 Jul 08 j 17:20	19° Υ 58'24	
evening set	-5094 Aug 01 j 22:11	14° © 32'09		asc. noue	-5089 Jul 25 j 07:05	0° 8	
max. Earth dist.	-5094 Aug 17 j 16:28	25°\$49'10	2.45849 AU		-5089 Sep 16 j 02:53	0°II	
max. Dartii dist.	-5094 Aug 23 j 10:41	0°Ω	2.4304) 110		-5089 Dec 05 j 12:45	0°©	
	3071714g 23 j 10.11	o 00		retrograde	-5089 Dec 14 j 03:19	0° © 26'17	
conjunction	-5094 Sep 24 j 15:48	23° Ω 54'14	0°34'44	retrograde	-5089 Dec 22 j 10:50	30°RⅡ	
minimum elong	-5094 Sep 24 j 17:48	23° Ω 58'01	0°34'53	opposition	-5088 Jan 20 j 02:34	22° I 18'22	5°15'51
8	-5094 Oct 02 j 16:54	0° m)		greatest brilliancy	-5088 Jan 21 j 06:27	21° I I52'06	
	-5094 Nov 10 j 14:45	0∘ <u>v</u>		min. Earth dist.	-5088 Jan 26 j 18:39		0.58284 AU
desc. node	-5094 Nov 14 j 06:17	2° ჲ 50'37		direct	-5088 Feb 29 j 12:42	12° Ⅱ 38'11	
morning rise	-5094 Nov 23 j 15:20	10° ≙ 10'14			-5088 Apr 28 j 10:20	0 \circ \odot	
	-5094 Dec 18 j 23:34	0° M			-5088 Jun 17 j 23:50	$0^{\circ}\Omega$	
	-5093 Jan 26 j 16:05	0° ∡ ¹		desc. node	-5088 Jul 06 j 00:11	12° Ω 18′21	
	-5093 Mar 07 j 13:47	0°ප			-5088 Jul 30 j 14:57	0° ™	
	-5093 Apr 18 j 15:10	0° ≈			-5088 Sep 08 j 09:57	0∘ ত	
	-5093 Jun 03 j 03:33	0° ∀			-5088 Oct 17 j 07:34	0° M	
	-5093 Jul 25 j 19:34	0° Υ			-5088 Nov 25 j 13:38	0° ∡	
retrograde	-5093 Sep 30 j 10:30	20° Y 11′58			-5087 Jan 05 j 01:45	0°ಕ	
asc. node	-5093 Oct 03 j 18:55	20° Y ′07'34		evening set	-5087 Jan 30 j 14:03	18° る 15'32	
opposition	-5093 Nov 09 j 09:17	10° Y 25'18	1°21'51		-5087 Feb 16 j 09:00	0° ≈	
greatest brilliancy	-5093 Nov 09 j 07:39	10° ° 26′57	-1.4m		500534 06:00.00	250 40145	0000100
min. Earth dist.	-5093 Nov 08 j 15:09	10° ℃ 43'33	0.66725 AU	conjunction	-5087 Mar 26 j 03:29	25°≈40'45	
direct	-5093 Dec 19 j 12:15	0° Ƴ 44'11 0° ႘		minimum elong	-5087 Mar 26 j 04:57	25° ≈ 43'12 0°) €	0°33'42
	-5092 Mar 15 j 10:17	0°I		may Earth dist	-5087 Apr 01 j 15:17	9° ∺ 49'10	2.61083 AU
	-5092 May 06 j 10:32 -5092 Jun 21 j 13:33	0°©		max. Earth dist. morning rise	-5087 Apr 16 j 12:24 -5087 May 15 j 20:15	28° H 51'30	2.01083 AU
	-5092 Aug 03 j 03:30	0° U		morning 11sc	-5087 May 17 j 14:52	20 γ (31 30	
	-5092 Sep 12 j 06:50	0°m)		asc. node	-5087 May 17 j 14:32	5° Υ 07'13	
evening set	-5092 Sep 25 j 00:34	9° mp 47'35		ass. nous	-5087 Jul 03 j 21:39	0°8	
desc. node	-5092 Oct 01 j 03:33	14° mp 32'19			-5087 Aug 21 j 06:58	0°П	
	-5092 Oct 20 j 22:43	0∘ <u>v</u>			-5087 Oct 10 j 14:01	0° ©	
	J				-5087 Dec 06 j 07:57	$0^{\circ}\Omega$	
conjunction	-5092 Nov 27 j 07:15	29° ≏ 23'41	-0°39'31	retrograde	-5086 Feb 04 j 18:44	16° Ω 41'18	
minimum elong	-5092 Nov 27 j 04:07	29° ≏ 17'32	0°39'36	opposition	-5086 Mar 10 j 05:12	10° Ω 16′25	4°16'54
	-5092 Nov 28 j 01:43	0° M		greatest brilliancy	-5086 Mar 11 j 14:40	9° Ω 48'58	-2.4m
max. Earth dist.	-5092 Dec 28 j 11:58	23°M45'44	2.38317 AU	min. Earth dist.	-5086 Mar 18 j 14:03	7° Ω 33'12	0.45974 AU
	-5091 Jan 05 j 13:53	0° ∡ 7		direct	-5086 Apr 15 j 18:29	2° Ω 28'41	
morning rise	-5091 Feb 02 j 20:14	21° ∡ °28′07		desc. node	-5086 May 24 j 00:59	11° Ω 17′29	
	-5091 Feb 14 j 07:30	ರ∘ರ			-5086 Jun 28 j 17:59	0° ™	
	-5091 Mar 27 j 23:20	0° ≈			-5086 Aug 12 j 20:48	0∘ ⊽	
	-5091 May 11 j 03:23	0° ∀			-5086 Sep 23 j 09:06	0° M	
	-5091 Jun 27 j 13:49	0° Υ			-5086 Nov 03 j 10:22	0° ∡	
	-5091 Aug 19 j 23:39	0°8			-5086 Dec 15 j 08:34	6°0	
asc. node	-5091 Aug 20 j 19:34	0° 8 25'07			-5085 Jan 27 j 18:50	0° ≈	
retrograde	-5091 Nov 03 j 17:54	23° 8 56'50	20161:		-5085 Mar 13 j 20:14	0°) (1510.4	
opposition	-5091 Dec 12 j 19:13	14° 8 46'47	3~46'44	evening set	-5085 Mar 18 j 20:44	3°) (17′04	

conjunction minimum elong behind sun begin	-5085 Apr 12 j 10:50 -5085 Apr 29 j 04:20	19°) 14′21 0° Υ		desc. node	-5080 Jan 14 j 04:20	26° ≗ 54'54 0° ™	
minimum elong behind sun begin	-5085 Apr 29 J 04:20	O.A.					
minimum elong behind sun begin					-5080 Jan 18 j 05:36 -5080 Feb 27 j 00:32	0° ⊼	
minimum elong behind sun begin	-5085 May 07 j 03:03	5° Υ '05'26	0°13'52		-5080 Peb 27 j 00:32 -5080 Apr 08 j 13:38	0°る	
behind sun begin	-5085 May 07 j 02:31	5° Υ '04'35	0°13'52		-5080 May 24 j 18:18	0° ≈	
habind and and	-5085 May 06 j 16:58	4° Υ 49'19		retrograde	-5080 Aug 11 j 02:23	28° ≈ 51'45	
behind sun end	-5085 May 07 j 12:04	5° Ƴ 19'51		min. Earth dist.	-5080 Sep 13 j 12:13	21° ≈ 22'48	0.57971 AU
max. Earth dist.	-5085 May 12 j 02:45	8° Y 16′50	2.66394 AU	opposition	-5080 Sep 19 j 08:17	19° ≈ 05′00	
	-5085 Jun 15 j 03:37	0°8		greatest brilliancy	-5080 Sep 18 j 18:31	19° ≈ 18'34	-1.8m
morning rise	-5085 Jun 22 j 16:19	4° ႘ 48′08 0°Ⅱ		direct	-5080 Oct 25 j 22:48	10°≈40'41	
	-5085 Aug 01 j 02:30 -5085 Sep 16 j 17:30	0ಂಣ ೧.π		asc. node	-5080 Dec 02 j 06:41 -5080 Dec 31 j 10:05	17°≈56'59 0° 米	
	-5085 Nov 02 j 05:24	$0 {\circ} \Omega$			-5079 Feb 26 j 07:23	0° Υ	
	-5085 Dec 19 j 10:00	0° m/y			-5079 Apr 17 j 22:42	0°8	
	-5084 Feb 08 j 00:59	0∘ ⊽			-5079 Jun 04 j 10:12	$\Pi^{\circ}0$	
desc. node	-5084 Apr 10 j 03:53	24° ₽ 14'39		evening set	-5079 Jul 14 j 22:17	27° I I02'38	
retrograde	-5084 Apr 21 j 05:51	25° ჲ 01'05			-5079 Jul 19 j 05:32	0 \circ \odot	
opposition	-5084 May 21 j 21:03	19° ≙ 53'27		max. Earth dist.	-5079 Jul 30 j 20:16	8°903'33	2.50745 AU
min. Earth dist.	-5084 May 21 j 05:58	20° ₽ 03'28	0.37742 AU		-5079 Aug 30 j 15:13	0 $^{\circ}$ Ω	
greatest brilliancy direct	-5084 May 21 j 17:04 -5084 Jun 20 j 22:47	19° £ 56'06 14° £ 51'22	-2.9m	conjunction	-5079 Sep 03 j 21:02	3° Ω 05'13	0°54'29
direct	-5084 Aug 13 j 00:27	0°M		minimum elong	-5079 Sep 03 j 22:58	3° Ω 08'44	0°54'42
	-5084 Oct 04 j 10:45	0° ∡ ¹			-5079 Oct 10 j 01:46	0° m)	0 02
	-5084 Nov 20 j 07:03	8°0		morning rise	-5079 Oct 29 j 01:24	14° m 28'03	
	-5083 Jan 05 j 13:31	0° ≈			-5079 Nov 18 j 04:30	0∘ ⊽	
	-5083 Feb 21 j 08:22	0° ∺		desc. node	-5079 Dec 01 j 02:17	10° ≏ 01'35	
asc. node	-5083 Feb 27 j 07:02	3°) 47′02			-5079 Dec 26 j 17:46	0° M	
evening set	-5083 Apr 09 j 15:21 -5083 Apr 27 j 03:13	0° Υ 11° Υ 04'46			-5078 Feb 03 j 13:58 -5078 Mar 15 j 15:54	№ 00 と 00	
evening set	-5083 May 26 j 21:21	0° 8			-5078 Mar 13 j 13.34 -5078 Apr 27 j 02:54	0°≈	
max. Earth dist.	-5083 Jun 03 j 17:14		2.66291 AU		-5078 Jun 12 j 22:31	0° ∺	
					-5078 Aug 12 j 08:33	0°Υ	
conjunction	-5083 Jun 13 j 03:25	11° 8 03'08	0°52'51	retrograde	-5078 Sep 16 j 23:22	7° Ƴ 00'07	
minimum elong	-5083 Jun 13 j 02:06	11° 8 01'02	0°53'01		-5078 Oct 19 j 16:11	30° ₹	
	-5083 Jul 12 j 09:30	0°II		asc. node	-5078 Oct 20 j 08:25	29°) (44'17	
morning rise	-5083 Jul 28 j 14:29	10° Ⅱ 38'13		min. Earth dist.	-5078 Oct 24 j 18:12		0.65428 AU
	-5083 Aug 26 j 16:06 -5083 Oct 09 j 14:09	0ಂ ೮ 0ಂತಾ		opposition greatest brilliancy	-5078 Oct 26 j 23:31 -5078 Oct 26 j 22:57	27° ∺ 05'28 27° ∺ 06'03	0°15'19 -1.4m
	-5083 Nov 21 j 07:30	0° m)		direct	-5078 Dec 05 j 08:31	17° H 39'40	-1.4111
	-5082 Jan 02 j 05:54	0∘ ⊽			-5077 Jan 25 j 16:29	0°Υ	
	-5082 Feb 13 j 03:52	0°M₊			-5077 Mar 26 j 15:26	0°8	
desc. node	-5082 Feb 26 j 04:42	9° ™ 09'59			-5077 May 15 j 13:28	$\Pi^{\circ}0$	
	-5082 Mar 28 j 23:00	0° ∡ ¹			-5077 Jun 30 j 02:09	0ංම	
	-5082 May 21 j 22:57	0°る			-5077 Aug 11 j 12:32	0°N	
retrograde	-5082 Jun 27 j 07:33	8°る17'43 2°る59'27	0.45020 AII	evening set	-5077 Sep 02 j 17:21	16° Ω 24'49	
min. Earth dist. greatest brilliancy	-5082 Jul 25 j 07:19 -5082 Jul 31 j 20:40	2°る39'27 0° る 44'36	0.45930 AU -2.4m	max. Earth dist.	-5077 Sep 20 j 16:22 -5077 Oct 05 j 06:59	0° Mp 11° Mp 13'17	2.38879 AU
opposition	-5082 Aug 02 j 11:08	0°る11'23		desc. node	-5077 Oct 18 j 22:14	21° Mp 48'18	2.30077110
off	-5082 Aug 03 j 00:23	30°R ✓			-5077 Oct 29 j 09:57	0∘ ⊽	
direct	-5082 Sep 04 j 01:31	23° ∡ ³35'55			v		
	-5082 Oct 07 j 19:47	8°0		conjunction	-5077 Nov 01 j 05:19	2° £ 11'55	-0°09'44
	-5082 Dec 09 j 23:08	0° ≈		minimum elong	-5077 Nov 01 j 04:29	2° £ 10′16	0°09'43
asc. node	-5081 Jan 15 j 05:56	20°≈49'41		behind sun begin	-5077 Oct 31 j 06:31	1° ≙ 27'15	
	-5081 Jan 30 j 17:18	0° \ 0° Υ		behind sun end	-5077 Nov 02 j 02:27	2° ≏ 53'18	
	-5081 Mar 21 j 05:37 -5081 May 08 j 10:22	0° ႘		morning rise	-5077 Dec 06 j 14:32 -5076 Jan 06 j 20:57	0°M 24°M23'34	
evening set	-5081 Jun 04 j 15:53	17° 8 22'29		morning risc	-5076 Jan 14 j 03:23	0° × ⁷	
	-5081 Jun 24 j 01:53	0°Ⅱ			-5076 Feb 22 j 21:00	°ਤ ਹ°ਤ	
max. Earth dist.	-5081 Jun 29 j 09:29	3° Ⅱ 29'42	2.60883 AU		-5076 Apr 04 j 13:57	0°≈	
	-				-5076 May 19 j 00:37	0° ∀	
conjunction	-5081 Jul 21 j 23:03	18° Ⅲ 31'37			-5076 Jul 06 j 13:32	0° Ƴ	
	-5081 Jul 21 j 22:49	18° ∏ 31'14	1°11'32	_	-5076 Sep 03 j 15:26	0°8	
minimum elong	-5081 Aug 07 j 20:23	0 \circ \odot		asc. node	-5076 Sep 06 j 10:19	1° 8 06'17	
_		210002450			E07(0 + 20 : 10 00	1000	
_	-5081 Sep 07 j 14:50	21° © 24'50		retrograde	-5076 Oct 20 j 18:09	10° 8 57'55	2055120
morning rise		21°\$24'50 0° Ω 0° ™		retrograde opposition greatest brilliancy	-5076 Oct 20 j 18:09 -5076 Nov 29 j 06:49 -5076 Nov 29 j 09:02	10° と 57'55 1° と 30'46 1° と 28'33	2°55'38 -1.3m

3			•	//	5400 BCE in historical c	, ,	5 55
1 Illuminon, upur onomi	-5076 Dec 03 j 01:58	30° Ŗ ♈	ii uoti oiioiiii etti eet	conjunction	-5070 Apr 21 j 13:37	20°) 38'52	-0°04'21
direct	-5075 Jan 09 j 04:24	21° Y ′34′00		minimum elong	-5070 Apr 21 j 13:48	20°) 39'10	
ancer	-5075 Feb 19 j 01:13	0°8		behind sun begin	-5070 Apr 20 j 18:02	20° \ 07'13	0 0123
	-5075 Apr 21 j 07:25	0°II		behind sun end	-5070 Apr 22 j 09:34	21° H 11'06	
	-5075 Jun 08 j 08:54	0°©		asc. node	-5070 Apr 29 j 03:42	25°\(\)32'46	
	-5075 Jul 21 j 13:46	0°N		max. Earth dist.	-5070 May 02 j 15:26	27°) 47'37	2.64968 AU
	-5075 Aug 30 j 21:46	0° m)		max. Earth dist.	-5070 May 02 j 13:20	27 γ (4737	2.04908 AU
desc. node	-5075 Sep 04 j 18:51	3° Mp 43'50		morning rise	-5070 Jun 08 j 07:57	21° Υ 15'31	
desc. Hode	-5075 Oct 08 j 14:46	0∘ ರ		morning risc	-5070 Jun 22 j 02:03	0°8	
evening set	-5075 Nov 04 j 21:00	0 <u>=</u> 21° <u>₽</u> 26'16			-5070 Aug 08 j 10:28	0°II	
evening set	-5075 Nov 15 j 18:23	0°M			-5070 Sep 25 i 01:02	0ಂಣ ೧ π	
	-5075 Dec 24 j 07:42	0° ∡ 7			-5070 Nov 12 j 15:09	0° U	
	-30/3 Dec 24 J 07.42	0 X			-5069 Jan 04 j 00:03	0° m)	
agnismation	5074 Ion 09: 22:00	110.75400	1906152	ratra ara da			
conjunction	-5074 Jan 08 j 22:09	11° х 54'09 11° х 51'35		retrograde	-5069 Mar 21 j 11:17	25° Mp 26'05	0020144
minimum elong	-5074 Jan 08 j 20:47		1-0/0/	opposition	-5069 Apr 21 j 08:17	20° m 12'12	0°28'44
Fauth diet	-5074 Feb 02 j 02:53	0°る	2.45(02.41)	greatest brilliancy	-5069 Apr 21 j 11:10	20° Mp 10'11	-2.9m
max. Earth dist.	-5074 Feb 25 j 07:39		2.45602 AU	min. Earth dist.	-5069 Apr 25 j 22:47	18° Mp 55'02	0.39250 AU
morning rise	-5074 Mar 12 j 22:15	27°る58'52		desc. node	-5069 Apr 27 j 19:26	18° Mp 24'32	
	-5074 Mar 15 j 19:11	0° ≈		direct	-5069 May 23 j 14:32	14° m 24'48	
	-5074 Apr 28 j 17:48	0° \			-5069 Jul 15 j 07:41	0∘ 亚	
_	-5074 Jun 14 j 04:59	0° Υ			-5069 Sep 03 j 13:26	0° M ₊	
asc. node	-5074 Jul 25 j 10:20	25° Y ′03′16			-5069 Oct 18 j 03:30	0° ∡ ¹	
	-5074 Aug 02 j 22:36	0° 8			-5069 Dec 01 j 03:08	0°₹	
	-5074 Sep 29 j 09:53	$0^{\circ}\Pi$			-5068 Jan 14 j 21:40	0° ≈	
retrograde	-5074 Nov 27 j 09:57	15° Ⅱ 44'49			-5068 Feb 29 j 19:45	0° ∀	
opposition	-5073 Jan 04 j 08:39	7° Ⅱ 08'44		asc. node	-5068 Mar 15 j 23:43	9°) 45′49	
greatest brilliancy	-5073 Jan 05 j 04:03	6° Ⅱ 50'01	-1.5m	evening set	-5068 Apr 11 j 22:34	27° ₩ 00'03	
min. Earth dist.	-5073 Jan 09 j 15:36	5° Ⅱ 06'14	0.61897 AU		-5068 Apr 16 j 15:27	0° Y	
	-5073 Jan 24 j 20:37	30° ₹ 8		max. Earth dist.	-5068 May 25 j 14:08	24° Ƴ 48'33	2.66986 AU
direct	-5073 Feb 14 j 07:38	27° 8 13'25					
	-5073 Mar 08 j 01:08	Π $^{\circ}$ 0		conjunction	-5068 May 29 j 12:16	27° Ƴ 18'42	0°39'31
	-5073 May 13 j 17:29	0 \circ \odot		minimum elong	-5068 May 29 j 11:03	27° Ƴ 16'45	0°39'37
	-5073 Jun 29 j 03:55	$0^{\circ}\Omega$			-5068 Jun 02 j 17:19	9° 8	
desc. node	-5073 Jul 23 j 17:44	17° Ω 29'59		morning rise	-5068 Jul 14 j 01:02	26° 8 34'02	
	-5073 Aug 09 j 15:27	0° m)			-5068 Jul 19 j 08:03	Π \circ 0	
	-5073 Sep 17 j 21:35	0∘ ⊽			-5068 Sep 03 j 00:36	0ංම	
	-5073 Oct 26 j 10:27	0° M			-5068 Oct 17 j 16:33	0 $^{\circ}$ Ω	
	-5073 Dec 04 j 08:51	0° ∡ ¹			-5068 Nov 30 j 13:19	0° m)	
evening set	-5072 Jan 09 j 19:24	27° ∡ 14'50			-5067 Jan 13 j 03:39	0∘ ऌ	
	-5072 Jan 13 j 13:38	0°ಕ			-5067 Feb 26 j 20:18	0° M ₊	
	-5072 Feb 24 j 14:29	0° ≈		desc. node	-5067 Mar 14 j 23:01	10°M12'24	
					-5067 Apr 19 j 12:39	0° ∡ ¹	
conjunction	-5072 Mar 07 j 10:33	8° ≈ 11'44	-0°50'21	retrograde	-5067 Jun 04 j 12:14	12° ∡ ³31'17	
minimum elong	-5072 Mar 07 j 12:33	8° ≈ 15'09	0°50'33	min. Earth dist.	-5067 Jul 01 j 06:40	7° ∡ ¹55'18	0.41274 AU
max. Earth dist.	-5072 Apr 05 j 05:06	27° ≈ 41'26	2.57577 AU	greatest brilliancy	-5067 Jul 06 j 20:33	6° ∡ 12'11	-2.7m
	-5072 Apr 08 j 16:14	0° ∀		opposition	-5067 Jul 08 j 09:07	5° ∡ ¹43'51	-6°17'11
morning rise	-5072 Apr 29 j 18:30	13° ¥ 54'27		direct	-5067 Aug 08 j 04:58	0° ≯ 02'14	
-	-5072 May 24 j 15:37	$0^{\circ}\mathbf{\Upsilon}$			-5067 Oct 30 j 19:07	ව°0	
asc. node	-5072 Jun 11 j 07:12	11° Y 14'08			-5067 Dec 21 j 05:43	0° ≈	
	-5072 Jul 11 j 06:29	0°B		asc. node	-5066 Jan 31 j 20:37	25° ≈ 25'54	
	-5072 Aug 29 j 18:10	Π°			-5066 Feb 08 j 06:34	0° ∀	
	-5072 Oct 22 j 10:44	0°9			-5066 Mar 28 j 16:18	0° Y	
retrograde	-5071 Jan 12 j 12:41	26°959'38			-5066 May 15 j 09:50	0°B	
opposition	-5071 Feb 16 j 12:31	19°5548'23	5°10'46	evening set	-5066 May 20 j 15:41	3° 8 20'09	
greatest brilliancy	-5071 Feb 18 j 01:23	19° © 15'48	-2.0m	max. Earth dist.	-5066 Jun 19 j 01:02	22° 8 14'02	2.63618 AU
min. Earth dist.	-5071 Feb 24 j 18:33	16°954'30	0.51125 AU		-5066 Jun 30 j 22:43	0°II	
direct	-5071 Mar 27 j 02:30	11° © 00'37	0.01120110		2000 tun 20 j 22.13	~ ~	
	-5071 May 26 j 06:35	0°Ω		conjunction	-5066 Jul 06 j 12:07	3° II 39'00	1°07'22
desc. node	-5071 Jun 09 j 17:38	8° Ω 12'19		minimum elong	-5066 Jul 06 j 11:15	3° П 37'34	1°07'37
dese. Hode	-5071 Jul 13 j 10:22	0°m)		minimum ciong	-5066 Aug 14 j 20:46	ე° ഇ	1 0/3/
	-5071 Aug 24 j 03:46	0∘ ত اللا		morning rise	-5066 Aug 21 j 19:15	0 ع 4°9344'28	
	-5071 Oct 03 j 03:53	0° ™		morning fise	-5066 Sep 27 j 01:13	4 9 44 28	
	-5071 Nov 12 j 05:44	0° ⊼			-5066 Nov 07 j 16:53	0° m)	
	-5071 Nov 12 j 03.44 -5071 Dec 23 j 10:09	0°る			-5066 Dec 18 j 05:41	0∘ ত رااا	
	-5070 Feb 04 j 06:51	0°≈			-5065 Jan 27 j 07:13	0° M	
evening set	-5070 Mar 01 j 15:54	0 ≈ 17°≈11'16		desc. node	-5065 Jan 30 j 22:43	2°M43'27	
evening set	-5070 Mar 01 j 15:54 -5070 Mar 20 j 22:34	0° ∺		acse. Hour	-5065 Jan 30 j 22:43	2°111643°27 0° √ 1	
	-30/0 Wai 20 J 22.34	υ Λ			-5005 war 00 J 21.3/	υ Χ .	

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,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-5065 Apr 21 j 01:09	ි0°ප		desc. node	-5060 Sep 21 j 13:14	10° m) 47'50	
	-5065 Jun 12 j 10:45	0° ≈		evening set	-5060 Oct 09 j 06:16	24° Mp 34'26	
retrograde	-5065 Jul 26 j 21:12	11° ≈ 28′01			-5060 Oct 16 j 04:30	0∘ 亚	
min. Earth dist.	-5065 Aug 27 j 04:46	4° ≈ 46'36	0.53572 AU		-5060 Nov 23 j 07:33	0° M.	
greatest brilliancy	-5065 Sep 02 j 06:54	2° ≈ 27'28	-2.0m				
opposition	-5065 Sep 03 j 06:52	2° ≈ 04'33	-4°19'58	conjunction	-5060 Dec 12 j 21:26	15°M20'10	-0°53'00
	-5065 Sep 08 j 20:56	30°Ŗる		minimum elong	-5060 Dec 12 j 18:09	15° M ₊13'47	0°53'10
direct	-5065 Oct 08 j 11:02	24° පි 16'17			-5060 Dec 31 j 19:36	0° ∡ ¹	
_	-5065 Nov 09 j 18:36	0° ≈		max. Earth dist.	-5059 Jan 27 j 22:35		2.40516 AU
asc. node	-5065 Dec 19 j 20:41	16°≈47'43			-5059 Feb 09 j 12:43	0°る	
	-5064 Jan 14 j 08:21	0° ∀ 0° Υ		morning rise	-5059 Feb 17 j 10:00	5°る48'18	
	-5064 Mar 07 j 00:45 -5064 Apr 25 j 10:31	0.8 0.1			-5059 Mar 23 j 03:24 -5059 May 06 j 03:35	0° ≈ 0°) €	
	-5064 Jun 11 j 11:59	0°II			-5059 Jun 22 j 02:22	0° Υ	
evening set	-5064 Jun 28 j 06:29	11° I I03'44		asc. node	-5059 Aug 11 j 01:18	29° Υ '07'16	
max. Earth dist.	-5064 Jul 16 j 19:57	23° I I33'20	2.55188 AU	use. Houe	-5059 Aug 12 j 16:16	0°8	
	-5064 Jul 26 j 05:59	0ංම 			-5059 Oct 24 j 08:33	0°II	
	J			retrograde	-5059 Nov 12 j 02:21	1° Ⅱ 59'54	
conjunction	-5064 Aug 16 j 06:48	14°539'04	1°06'19		-5059 Nov 29 j 15:21	30° ₹ 8	
minimum elong	-5064 Aug 16 j 07:58	14°9541'07	1°06'34	opposition	-5059 Dec 20 j 19:12	23° 8 00'44	4°12'50
	-5064 Sep 06 j 18:48	$0^{\circ}\Omega$		greatest brilliancy	-5059 Dec 21 j 06:41	22° 8 49'28	-1.4m
morning rise	-5064 Oct 06 j 16:32	21° Q 56'38		min. Earth dist.	-5059 Dec 24 j 15:07	21° 8 30'29	0.64574 AU
	-5064 Oct 17 j 11:01	0° m		direct	-5058 Jan 30 j 22:37	12° 8 59'48	
	-5064 Nov 25 j 20:12	0∘ ⊽			-5058 Apr 01 j 05:20	Π °0	
desc. node	-5064 Dec 17 j 19:58	16° ≙ 58'52			-5058 May 24 j 12:56	0ංම	
	-5063 Jan 03 j 15:48	0° M ○			-5058 Jul 08 j 03:25	0°N	
	-5063 Feb 11 j 18:13	0° ∡		desc. node	-5058 Aug 09 j 10:23	23° Ω 33'19	
	-5063 Mar 24 j 04:14	5°0			-5058 Aug 18 j 00:00	0° ट 0°ആ	
	-5063 May 06 j 09:19	0° ≈ 0° ∀			-5058 Sep 25 j 22:49	0° ™	
retrograde	-5063 Jun 24 j 20:29 -5063 Sep 03 j 04:25	0 X 23° ¥ 09'32			-5058 Nov 03 j 06:28 -5058 Dec 11 j 23:57	0 IIC 0° ∡ 7	
min. Earth dist.	-5063 Oct 09 j 09:25	14°) 40'39	0.63182 AU	evening set	-5058 Dec 16 j 13:41	3° ∡ 129'25	
opposition	-5063 Oct 13 j 01:35	13° ¥ 12′02		evening sec	-5057 Jan 20 j 23:32	0°る	
greatest brilliancy	-5063 Oct 12 j 22:54	13°) 14'44	-1.5m		2007 2000 20 9 20 10 2		
asc. node	-5063 Nov 05 j 23:04	5° ¥ 30′10		conjunction	-5057 Feb 15 j 15:51	18° る 35'25	-1°03'13
direct	-5063 Nov 20 j 11:44	4°) €06'16		minimum elong	-5057 Feb 15 j 17:35	18° る 38'30	1°03'28
	-5062 Feb 09 j 03:43	0° Υ			-5057 Mar 03 j 19:33	0° ≈	
	-5062 Apr 04 j 13:55	9° 8		max. Earth dist.	-5057 Mar 24 j 08:02	14° ≈ 11′29	2.53325 AU
	-5062 May 23 j 05:56	Π °0		morning rise	-5057 Apr 13 j 08:17	27° ≈ 43′11	
	-5062 Jul 07 j 09:49	0ංම			-5057 Apr 16 j 18:14	0° ∀	
evening set	-5062 Aug 12 j 20:28	25° © 41'37			-5057 Jun 01 j 19:20	0° Υ	
D. d. F.	-5062 Aug 18 j 18:57	0° Q	2 42170 411	asc. node	-5057 Jun 28 j 23:41	17° Y ′06'35	
max. Earth dist.	-5062 Aug 30 j 13:36	8° Ω 38′21	2.43170 AU		-5057 Jul 19 j 22:53	0°Ⅱ 0°8	
	-5062 Sep 28 j 00:40	0° الله			-5057 Sep 09 j 04:28 -5057 Nov 09 j 16:17	0°©	
conjunction	-5062 Oct 07 j 10:50	7° mp 12'14	0°20'10	retrograde	-5057 Dec 24 j 10:40	9° 9 348'45	
minimum elong	-5062 Oct 07 j 10:36	7° Mp 14'57	0°20'16	opposition	-5056 Jan 29 j 18:36	1°958'44	5°21'36
desc. node	-5062 Nov 04 j 16:49	29° m 05'11		greatest brilliancy	-5056 Jan 31 j 02:42		-1.8m
	-5062 Nov 05 j 20:54	0∘ <u>⊽</u>		,	-5056 Feb 04 j 02:42	30° Ŗ Ⅱ	
morning rise	-5062 Dec 09 j 04:12	26° £ 05'45		min. Earth dist.	-5056 Feb 06 j 02:38	29° Ⅱ 16′13	0.55940 AU
	-5062 Dec 14 j 03:48	0° M ₊		direct	-5056 Mar 09 j 16:44	22° II 32'09	
	-5061 Jan 21 j 18:17	0° ∡ ¹			-5056 Apr 14 j 19:06	0 \circ	
	-5061 Mar 02 j 13:15	0°ಕ			-5056 Jun 10 j 17:14	0 $^{\circ}$ Ω	
	-5061 Apr 13 j 09:47	0° ≈		desc. node	-5056 Jun 26 j 11:04	10° Ω 19'10	
	-5061 May 28 j 08:54	0° ∺			-5056 Jul 24 j 13:22	0° m y	
000 mc 1-	-5061 Jul 17 j 21:35	0°Υ 26° Υ 52'54			-5056 Sep 02 j 20:04	ი∘ ო 0∘ ⊽	
asc. node	-5061 Sep 24 j 01:10	26° Y 53'54 28° Y 05'53			-5056 Oct 12 j 00:30	0° ™ 0° <i>≯</i> 7	
retrograde opposition	-5061 Oct 08 j 04:47 -5061 Nov 17 j 00:41	28° γ 05'53 18° γ 25'11	1°58'04		-5056 Nov 20 j 11:42 -5056 Dec 31 j 03:54	0° ਠ	
greatest brilliancy	-5061 Nov 17 j 00.41 -5061 Nov 16 j 23:41	18 γ 25 11 18° γ 26'11	-1.4m	evening set	-5055 Feb 11 j 01:24	0 3 29° る 37'08	
min. Earth dist.	-5061 Nov 17 j 01:46	18° Υ 24'05	0.67022 AU	5,011111g 50t	-5055 Feb 11 j 14:39	0° ≈	
direct	-5061 Dec 27 j 11:22	8° Y 37'25			-5055 Mar 27 j 23:09	0° ∀	
	-5060 Mar 07 j 14:30	0°8			, j ==.0/	. ,	
	-5060 Apr 30 j 18:07	0°II		conjunction	-5055 Apr 05 j 03:21	5°) 24′05	-0°22'57
	-5060 Jun 16 j 11:33	0ංම		minimum elong	-5055 Apr 05 j 04:21	5°) 25'44	0°23'04
	-5060 Jul 29 j 06:45	0 $^{\circ}$ Ω		max. Earth dist.	-5055 Apr 22 j 14:47		2.62711 AU
	-5060 Sep 07 j 12:07	0° ™			-5055 May 12 j 23:10	0° Ƴ	

3	ical year style is used: Th		•	//		, ,	0 00
asc. node	-5055 May 15 j 19:42	1° Υ 50'06		8 9 9	-5050 Dec 01 j 06:27	0° ≈	
morning rise	-5055 May 24 j 14:46	7° Υ 28'13		asc. node	-5049 Jan 05 j 11:54	18° ≈ 59'44	
	-5055 Jun 29 j 02:31	9° 8			-5049 Jan 24 j 16:55	0° ∀	
	-5055 Aug 16 j 00:52	$\Pi^{\circ}0$			-5049 Mar 16 j 02:42	0° Y	
	-5055 Oct 04 j 02:40	0ಂತ			-5049 May 03 j 16:24	$0^{\circ}S$	
	-5055 Nov 25 j 13:23	$0^{\circ}\Omega$		evening set	-5049 Jun 13 j 11:19	26° 8 04'59	
retrograde	-5054 Feb 19 j 17:06	29° Ω 43'18			-5049 Jun 19 j 11:15	Π °0	
opposition	-5054 Mar 24 j 03:24	23° Ω 46′03	3°17'06	max. Earth dist.	-5049 Jul 05 j 20:12	10° Ⅱ 48'31	2.59048 AU
greatest brilliancy	-5054 Mar 25 j 05:03	23° Ω 26′12					
min. Earth dist.	-5054 Mar 31 j 21:36	21° Ω 22'40	0.43257 AU	conjunction	-5049 Jul 31 j 05:24	27° I 55'56	
direct	-5054 Apr 28 j 07:27	16° Ω 39'50		minimum elong	-5049 Jul 31 j 05:38	27° Ⅱ 56′20	1°11'28
desc. node	-5054 May 14 j 12:48	18° Ω 25'10			-5049 Aug 03 j 05:52	0° ©	
	-5054 Jun 15 j 07:11	0° m)			-5049 Sep 14 j 23:42	0°N	
	-5054 Aug 04 j 15:09	0∘ ™		morning rise	-5049 Sep 17 j 22:47	2° Ω 07'43	
	-5054 Sep 16 j 16:34 -5054 Oct 28 j 13:36	0° ™ 0° <i>≯</i> 7			-5049 Oct 25 j 23:36 -5049 Dec 04 j 17:27	0 ்⊽ 0 ்மி	
	-5054 Dec 10 j 00:18	0°る		desc. node	-5048 Jan 04 j 14:31	0 = 23° £ 38'30	
	-5053 Jan 22 j 19:10	0°≈		uese. Houe	-5048 Jan 12 j 21:35	0°M₁	
	-5053 Mar 09 j 02:07	0° ∺			-5048 Feb 21 j 09:03	0° ⊼ ¹	
evening set	-5053 Mar 28 j 05:56	12° ¥ 26'17			-5048 Apr 02 j 08:35	0°ਤ	
asc. node	-5053 Apr 02 j 15:15	15° ¥ 55'01			-5048 May 16 j 23:32	0° ≈	
	-5053 Apr 24 j 13:27	0° Υ			-5048 Jul 12 j 15:12	0°) €	
	r j			retrograde	-5048 Aug 19 j 18:24	8° ¥ 21′06	
conjunction	-5053 May 15 j 18:57	13° Ƴ 34'01	0°23'52	min. Earth dist.	-5048 Sep 23 j 05:34	0° ¥ 29′13	0.60051 AU
minimum elong	-5053 May 15 j 18:06	13° Y 32'40	0°23'53		-5048 Sep 24 j 11:05	30° R ≈	
max. Earth dist.	-5053 May 17 j 13:32	14° Y 41'56	2.66841 AU	opposition	-5048 Sep 28 j 07:46	28° ≈ 27'40	-2°13'40
	-5053 Jun 10 j 13:04	0° 8		greatest brilliancy	-5048 Sep 27 j 22:48	28° ≈ 36'35	-1.7m
morning rise	-5053 Jun 30 j 20:12	12° 8 58'28		direct	-5048 Nov 04 j 14:53	19° ≈ 47′00	
	-5053 Jul 27 j 08:28	Π °0		asc. node	-5048 Nov 22 j 13:08	21° ≈ 38'46	
	-5053 Sep 11 j 14:15	0 \circ \odot			-5048 Dec 20 j 05:06	0° ∀	
	-5053 Oct 27 j 07:10	$0^{\circ}\Omega$			-5047 Feb 20 j 01:46	0° Υ	
	-5053 Dec 11 j 22:43	0° m)			-5047 Apr 12 j 18:43	0°8	
	-5052 Jan 27 j 18:45	0° ™			-5047 May 30 j 15:22	0°Щ	
	-5052 Mar 21 j 07:53	0°M			-5047 Jul 14 j 13:52	0.20	
desc. node	-5052 Mar 31 j 14:38	4°M27'35		evening set	-5047 Jul 25 j 00:10	7°513'38	2 40064 ATT
retrograde	-5052 May 08 j 10:52	12°M52'18 8°M18'56	0.38259 AU	max. Earth dist.	-5047 Aug 09 j 10:40	18° © 06'22 0° Ω	2.48064 AU
min. Earth dist. opposition	-5052 Jun 05 j 08:09 -5052 Jun 08 j 20:12	7°ML21'12			-5047 Aug 25 j 23:29	0 86	
greatest brilliancy	-5052 Jun 08 j 03:38	7°M32'37		conjunction	-5047 Sep 15 j 09:22	15° Ω 00'24	0°44'10
direct	-5052 Jul 08 j 19:42	2°M17'25	-2.7111	minimum elong	-5047 Sep 15 j 07:22	15° Ω 04'18	0°44'20
uncet	-5052 Sep 24 j 08:52	0° ∡¹		minimum crong	-5047 Oct 05 j 08:30	0° m)	0 1120
	-5052 Nov 13 j 08:47	0°ප		morning rise	-5047 Nov 12 j 03:22	29° m 02'38	
	-5052 Dec 30 j 21:09	0° ≈			-5047 Nov 13 j 08:54	0∘ <u>⊽</u>	
	-5051 Feb 16 j 06:48	0° ∀		desc. node	-5047 Nov 21 j 10:44	6° ≙ 17'15	
asc. node	-5051 Feb 17 j 12:31	0°) 46′52			-5047 Dec 21 j 19:37	0° M ₊	
	-5051 Apr 04 j 21:40	0° Υ			-5046 Jan 29 j 13:17	0° ∡ ¹	
evening set	-5051 May 05 j 17:46	19° Ƴ 28'40			-5046 Mar 10 j 11:34	ರ°ರ	
	-5051 May 22 j 07:08	$0^{\circ}S$			-5046 Apr 21 j 14:58	0° ≈	
max. Earth dist.	-5051 Jun 09 j 06:08	11° 8 29'41	2.65567 AU		-5046 Jun 06 j 11:59	0° ∀	
					-5046 Jul 31 j 03:47	0° Ƴ	
conjunction	-5051 Jun 21 j 14:03	19° 8 26'45	0°59'13	retrograde	-5046 Sep 24 j 17:48	15° Y ′04'00	
minimum elong	-5051 Jun 21 j 12:49	19° 8 24'45	0°59'25	asc. node	-5046 Oct 10 j 15:33	13° Y ′20′38	
	-5051 Jul 07 j 19:27	0°П		min. Earth dist.	-5046 Nov 02 j 07:13	5° Y 47'42	0.66262 AU
morning rise	-5051 Aug 06 j 04:27	19° Ⅱ 24'15		opposition	-5046 Nov 03 j 17:30	5°Υ13'07	0°54'40
	-5051 Aug 21 j 23:04	0° ©		greatest brilliancy	-5046 Nov 03 j 15:54	5°Υ14'45	-1.4m
	-5051 Oct 04 j 14:22	0° N		dimont	-5046 Nov 17 j 15:06	30° ₹ ₩	
	-5051 Nov 15 j 21:29	0 ்⊽ 0 ்மி		direct	-5046 Dec 13 j 12:54 -5045 Jan 11 j 02:08	25° ¥ 38'28 0° Ƴ	
	-5051 Dec 27 j 05:25 -5050 Feb 06 j 06:44	0° ™			-5045 Jan 11 j 02:08 -5045 Mar 20 j 04:56	0 . გ	
desc. node	-5050 Feb 16 j 15:47	บำแน 7° M L31'04			-5045 May 10 j 07:14	0°U	
desc. Houc	-5050 Mar 20 j 10:08	7 11631 04 0° √			-5045 Jun 25 j 05:22	0°©	
	-5050 May 06 j 12:17	0° ਠ			-5045 Aug 06 j 18:50	0° U	
retrograde	-5050 Jul 08 j 19:05	21° ට 31'04		evening set	-5045 Sep 15 j 13:54	29° Ω 42'04	
min. Earth dist.	-5050 Aug 06 j 21:46	15° る 42'44	0.48702 AU		-5045 Sep 15 j 23:18	0° m)	
greatest brilliancy	-5050 Aug 13 j 11:11	13° ♂ 21'19		desc. node	-5045 Oct 09 j 07:56	18° m 00'54	
opposition	-5050 Aug 14 j 21:30	12° る 50'15			-5045 Oct 24 j 16:12	0∘ <u>⊽</u>	
direct	-5050 Sep 17 j 11:29	5° る 46'18			-		

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5045 Nov 16 i 07:30 17°**Ω**47'47 -0°27'10 retrograde -5039 Jan 25 j 04:11 8°Ω12'08 conjunction -5045 Nov 16 j 05:11 opposition -5039 Feb 28 j 08:44 1°Ω25'33 4°46'19 minimum elong 17°**Ω**43'12 0°27'12 -5045 Nov 16 j 04:43 -5039 Mar 01 j 21:05 0°**Ω**54'39 max. Earth dist. 17°**£**42'17 2.37673 AU greatest brilliancy -2.2m -5045 Dec 01 j 19:40 o°m. -5039 Mar 04 j 13:15 30°R.55 -5044 Jan 09 j 07:33 0°**√** -5039 Mar 08 j 20:37 min. Earth dist. 28°**©**33'34 0.48288 AU 10°**х** 25′53 -5039 Apr 06 j 22:22 23°908'10 morning rise -5044 Jan 22 j 22:29 direct -5044 Feb 18 j 00:01 0°궁 -5039 May 10 j 12:04 0 $^{\circ}$ Ω 9°**Ω**19'04 -5044 Mar 30 j 14:49 0°≈ desc. node -5039 May 31 j 04:36 0°**)**€ -5039 Jul 05 j 05:30 0°Щ -5044 May 13 j 19:39 $0^{\circ}\Upsilon$ -5044 Jun 30 j 13:43 -5039 Aug 17 j 12:21 0°Ω -5044 Aug 24 j 14:08 0°8 -5039 Sep 27 j 05:39 0°M -5044 Aug 27 j 16:43 -5039 Nov 06 j 18:40 0°**∡**7 asc. node 1°**8**27'36 -5044 Oct 28 j 17:54 0°정 retrograde 18°**8**49'55 -5039 Dec 18 j 07:13 opposition -5044 Dec 07 j 00:18 9°**8**31'41 3°26'01 -5038 Jan 30 j 09:55 0°≈ greatest brilliancy -5044 Dec 07 j 05:17 9°**8**26'45 -1.4m evening set -5038 Mar 11 j 15:12 26°≈57'54 min. Earth dist. -5044 Dec 09 j 08:20 8°**8**36'01 0.66308 AU -5038 Mar 16 j 05:45 0°**)**€ -5043 Jan 08 j 14:05 30°R℃ asc. node -5038 Apr 19 j 08:58 22°**升**13′32 direct -5043 Jan 17 j 01:18 29°**Y**32'05 -5043 Jan 25 j 19:56 0°8 conjunction -5038 Apr 30 j 13:54 29°**)** €26'23 0°06'23 -5043 Apr 14 j 10:14 $\mathbb{I}^{\circ 0}$ minimum elong -5038 Apr 30 j 13:38 29°**¥**25'58 0°06'21 -5043 Jun 02 j 20:28 0ಂತಾ behind sun begin -5038 Apr 29 j 19:03 28°\£56'08 -5043 Jul 16 j 11:46 $0^{\circ}\Omega$ behind sun end -5038 May 01 i 08:14 29° ¥ 55'49 -5043 Aug 26 i 05:43 0° m 10'46-5038 May 01 j 10:50 $0^{\circ}\Upsilon$ desc. node -5043 Aug 26 j 00:04 0° m max. Earth dist. -5038 May 08 i 05:05 4°**Υ**20'17 2.65860 AU -5043 Oct 03 j 18:52 0∘∇ morning rise -5038 Jun 16 i 14:38 29°Y29'14 -5043 Nov 10 j 23:17 0°M -5038 Jun 17 j 09:58 0°8 -5043 Nov 20 j 03:22 7°**ጤ**11'05 -5038 Aug 03 j 12:46 $0^{\circ}\Pi$ evening set -5043 Dec 19 j 13:12 -5038 Sep 19 j 13:19 0°×7 0ംഉ -5038 Nov 05 j 20:11 $0^{\circ}\Omega$ -5042 Jan 23 j 07:14 -5038 Dec 24 j 17:49 0° m conjunction 26°**₹**15'12 -1°08'39 -5042 Jan 23 j 07:19 -5037 Feb 19 j 05:09 26° ₹15'21 1°08'55 0∘ಹ minimum elong -5042 Jan 28 j 08:45 -5037 Apr 08 j 06:06 0°ಕ 12°**2**05′10 retrograde max. Earth dist. -5042 Mar 08 j 16:53 28°る21'28 2.48440 AU -5037 Apr 18 j 07:26 11°**£**27'30 desc. node 7°**2**01'42 -1°33'41 -5042 Mar 11 j 00:58 -5037 May 08 j 19:10 0°≈ opposition -5042 Mar 25 j 00:39 -5037 May 08 j 20:34 morning rise 9°≈43'58 greatest brilliancy 7°**2**00'45 -2.9m -5042 Apr 23 j 22:11 0°\ -5037 May 10 j 15:56 min. Earth dist. 6°**£**31'43 0.38044 AU $0^{\circ}\Upsilon$ -5037 Jun 08 j 14:02 -5042 Jun 09 j 03:45 direct 1°**£**46'20 -5042 Jul 15 j 14:56 22° Y 31'54 -5037 Aug 24 j 01:24 0°M asc. node -5042 Jul 28 j 03:11 0° 8 -5037 Oct 10 j 18:16 0°**⊼** -5042 Sep 20 j 09:19 $0^{\circ}II$ -5037 Nov 25 j 01:58 0°ರ retrograde -5042 Dec 06 j 18:33 24°**Ⅲ**26'44 -5036 Jan 09 j 13:42 0°≈ -5041 Jan 13 j 04:37 16°**I**105'24 5°06'39 -5036 Feb 24 j 21:51 0°) opposition -5041 Jan 14 j 04:42 15°**Ⅱ**42'26 -1.6m -5036 Mar 06 j 04:38 6°**¥**35′05 greatest brilliancy asc. node -5041 Jan 19 j 05:51 13°**II**47'01 0.60018 AU -5036 Apr 11 j 23:13 $0^{\circ}\Upsilon$ min. Earth dist. -5041 Feb 22 j 21:18 6°**Ⅱ**17'07 -5036 Apr 20 j 16:48 5° Y 32'47 direct evening set -5041 May 05 j 12:06 0ಂತಾ -5036 May 29 j 03:11 0°8 -5041 Jun 22 i 23:33 $0^{\circ}\Omega$ max. Earth dist. -5036 May 30 j 22:35 1°809'18 2.66701 AU desc. node -5041 Jul 14 i 04:06 14°**Ω**45'26 -5041 Aug 04 i 02:22 0° m conjunction -5036 Jun 06 j 21:58 5°**8**36'53 0°47'35 -5041 Sep 12 i 15:37 0∘**⊽** -5036 Jun 06 i 20:39 5°**8**34'48 0°47'43 minimum elong -5041 Oct 21 j 08:51 0°M -5036 Jul 14 j 16:48 $0^{\circ}\Pi$ -5041 Nov 29 j 10:43 0°×7 -5036 Jul 22 j 08:20 4°II59'26 morning rise -5040 Jan 08 j 18:16 0°궁 -5036 Aug 29 j 04:09 0ಂತಾ -5036 Oct 12 j 10:08 -5040 Jan 22 j 10:45 9°る54'08 $0^{\circ}\Omega$ evening set -5036 Nov 24 j 15:01 -5040 Feb 19 j 21:14 0°≈ 0° m -5035 Jan 06 j 04:47 0∘**⊽** conjunction -5040 Mar 18 j 07:50 18°≈48'57 -0°40'58 -5035 Feb 18 j 01:32 0°M -5040 Mar 18 j 09:36 -5035 Mar 05 j 08:38 10°M24'10 minimum elong 18°≈51'55 0°41'08 desc. node -5040 Apr 04 j 00:04 0°**)**€ -5035 Apr 04 j 21:19 0°×7 5°**升**15'19 2.59599 AU -5035 Jun 17 j 21:57 max. Earth dist. -5040 Apr 11 j 22:14 retrograde 27°**х** 59′09 morning rise -5040 May 09 j 02:47 23°**)**(01'46 min. Earth dist. -5035 Jul 15 j 03:15 23°**х** 02′39 0.43740 AU $0^{\circ}\Upsilon$ -5040 May 19 j 22:21 greatest brilliancy -5035 Jul 21 j 10:33 20°**х** 58'47 -2.5m 8°Y03'01 asc. node -5040 Jun 01 j 12:20 opposition -5035 Jul 23 j 02:00 20° **₹** 26'13 -6°18'54 -5040 Jul 06 j 07:24 0°8 direct -5035 Aug 23 j 21:03 14° **₹** 15'02 -5040 Aug 24 j 02:19 $0^{\circ}II$ -5035 Oct 19 j 07:10 0°궁 -5040 Oct 14 j 13:14 0ಂತಾ -5035 Dec 14 j 09:00 0°**≈**

-5034 Jan 22 j 02:56

asc. node

22°**≈**57'34

-5040 Dec 16 j 01:46

 $0^{\circ}\Omega$

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5034 Feb 02 i 18:31 0°**)**€ -5030 Nov 01 i 03:41 0∘**⊽** -5034 Mar 23 j 18:18 $0^{\circ}\Upsilon$ -5030 Dec 09 j 09:11 0°M -5034 May 10 j 18:10 0°8 -5030 Dec 25 j 06:24 12°M25'49 morning rise -5034 May 29 j 05:17 11°**8**45'26 -5029 Jan 16 j 22:13 0°×7 evening set -5034 Jun 24 j 22:08 29°802'33 2.62205 AU -5029 Feb 25 j 15:19 0°궁 max. Earth dist. -5034 Jun 26 j 09:14 -5029 Apr 08 j 07:56 $0^{\circ}II$ 0°22 0°**)**€ -5029 May 22 j 21:16 $0^{\circ}\Upsilon$ -5034 Jul 15 j 06:17 12°**Ⅲ**28'08 1°10'11 -5029 Jul 11 j 00:01 conjunction 0°8 minimum elong -5034 Jul 15 j 05:44 12°**Ⅲ**27'14 1°10'27 -5029 Sep 12 j 17:43 -5034 Aug 10 j 06:10 0ಂತಾ asc. node -5029 Sep 14 j 06:38 0°**8**29'26 morning rise -5034 Aug 31 j 05:13 14°9527'38 retrograde -5029 Oct 15 j 23:34 5°**8**56'29 -5034 Sep 22 j 06:44 -5029 Nov 15 j 07:41 $0^{\circ}\Omega$ 30°**₹**Υ -5034 Nov 02 j 16:13 0° m opposition -5029 Nov 24 j 15:44 26°**Y**22'42 2°32'19 -5034 Dec 12 j 21:18 0∘**⊽** greatest brilliancy -5029 Nov 24 j 16:12 26°**Y**22'14 -1.3m desc. node -5033 Jan 21 j 08:04 29°**£**49'54 min. Earth dist. -5029 Nov 25 j 12:02 26°**Y**′02'22 0.67039 AU -5033 Jan 21 j 13:25 0°M direct -5028 Jan 04 j 08:59 16°**Y**29'33 -5033 Mar 02 j 15:20 0°**√** -5028 Feb 27 j 04:00 0°8 -5033 Apr 13 j 16:04 0°る -5028 Apr 24 j 18:50 $0^{\circ}\Pi$ -5033 May 31 j 11:41 -5028 Jun 11 j 07:12 0ಂತಾ retrograde -5033 Aug 05 j 08:13 22° 204'14 -5028 Jul 24 j 08:58 $0^{\circ}\Omega$ min. Earth dist. -5033 Sep 06 j 20:33 14°≈55'30 0.56093 AU -5028 Sep 02 j 16:42 0° m opposition -5033 Sep 13 j 06:32 12°≈25'42 -3°34'00 desc. node -5028 Sep 11 j 23:02 7° m 05'47 greatest brilliancy -5033 Sep 12 j 12:31 12°≈43'16 -1.8m -5028 Oct 11 i 09:50 0∘**⊽** direct -5033 Oct 19 i 05:49 4°≈16'35 -5028 Oct 24 j 02:36 9°**£**58'47 evening set asc. node -5033 Dec 10 j 03:41 17°≈12'55 -5028 Nov 18 j 12:59 0°M -5032 Jan 06 j 14:03 0°**₩** -5028 Dec 27 j 01:07 0°×7 -5032 Mar 01 j 09:36 $0^{\circ}\Upsilon$ -5032 Apr 20 j 11:53 0°8 -5028 Dec 28 j 08:16 0°**х** 59'53 -1°02'33 conjunction -5032 Jun 06 j 19:54 $0^{\circ}II$ -5028 Dec 28 j 05:51 0°**₹**'55'14 1°02'46 minimum elong -5032 Jul 07 j 15:05 20°**Ⅲ**26′00 -5027 Feb 04 j 18:22 0°궁 evening set -5032 Jul 21 j 15:53 -5027 Feb 14 j 18:00 0.00 max. Earth dist. 7°る20'37 2.43265 AU -5032 Jul 24 j 13:47 -5027 Mar 03 j 02:40 max. Earth dist. 2°500'23 2.52813 AU 19°**る**11'01 morning rise -5027 Mar 18 j 08:26 0°≈ -5032 Aug 26 j 14:36 -5027 May 01 j 06:03 0°\ conjunction 25°9516'12 1°00'27 -5032 Aug 26 j 16:15 25°519'10 1°00'42 -5027 Jun 16 j 19:48 $0^{\circ}\Upsilon$ minimum elong -5032 Sep 02 j 04:02 -5027 Aug 01 j 07:15 27°Υ15'25 0° Ω asc. node -5032 Oct 12 j 17:54 -5027 Aug 06 j 03:10 0° m 0° 8 morning rise -5032 Oct 18 j 23:03 4° m 41'43 -5027 Oct 05 j 22:41 $0^{\circ}\Pi$ -5032 Nov 20 j 23:53 0∘**⊽** retrograde -5027 Nov 20 j 18:02 10°**Ⅲ**14'14 desc. node -5032 Dec 08 j 06:37 13°**£**23'31 -5027 Dec 29 j 01:00 1°**I**27'07 4°35'44 opposition -5032 Dec 29 j 15:39 0°M greatest brilliancy -5027 Dec 29 j 16:43 1°**Ⅱ**11'48 -1.5m -5031 Feb 06 j 13:48 0°×7 -5026 Jan 01 j 18:23 30°R8 -5031 Mar 18 j 17:40 0°る min. Earth dist. -5026 Jan 02 j 15:57 29°839'06 0.63222 AU -5031 Apr 30 j 09:14 -5026 Feb 08 j 02:30 21°**8**28'22 direct -5031 Jun 16 j 22:55 0°**)**€ -5026 Mar 20 j 07:38 $0^{\circ}\Pi$ $0^{\circ}\Upsilon$ -5031 Aug 25 j 21:44 -5026 May 17 j 22:56 0ಂತಾ 1°Y38'23 -5026 Jul 02 i 13:44 -5031 Sep 11 i 04:16 $0^{\circ}\Omega$ retrograde -5031 Sep 26 i 13:16 30°R**)**€ desc. node -5026 Jul 30 i 21:18 20° **Ω**22'43 -5031 Oct 18 i 06:29 min. Earth dist. 22°\f51'28 0.64546 AU -5026 Aug 12 j 19:12 0° m -5031 Oct 21 i 03:53 21°\dagger41'32 -0°14'09 -5026 Sep 20 j 22:18 0∘**⊽** opposition -5031 Oct 21 j 03:25 21°\dagger41'59 -1.5m -5026 Oct 29 j 08:23 0°M greatest brilliancy -5031 Oct 27 j 05:09 19°**)** 18′02 -5026 Dec 07 j 03:44 0°×7 asc node direct -5031 Nov 29 j 03:27 12°**)** 24'12 -5026 Dec 30 j 13:53 41'28 **ح**°17 evening set $0^{\circ}\Upsilon$ -5030 Jan 31 j 14:15 -5025 Jan 16 j 05:01 0°정 -5030 Mar 29 j 19:50 0° 8 -5030 May 18 j 05:34 $0^{\circ}II$ conjunction -5025 Feb 27 j 18:11 0°≈27'52 -0°56'27 -5030 Jul 02 j 15:46 0ಂತಾ -5025 Feb 27 j 20:12 0°≈31'24 0°56'41 minimum elong -5030 Aug 14 j 02:46 $0^{\circ}\Omega$ -5025 Feb 27 j 02:14 0°≈ -5030 Aug 24 j 09:25 7°**Ω**31'44 -5025 Apr 01 j 02:38 evening set max. Earth dist. 22°≈39'45 2.55758 AU 24°**Ω**27'43 2.40635 AU -5025 Apr 12 j 01:18 0°**)**€ max. Earth dist. -5030 Sep 16 j 01:19

morning rise

asc. node

retrograde

-5025 Apr 23 j 12:03

-5025 May 27 j 23:59

-5025 Jun 19 j 04:50

-5025 Jul 14 j 18:41

-5025 Sep 02 j 20:48

-5025 Oct 28 j 19:35

-5024 Jan 04 j 12:07

7°**∺**35'36

0°Υ 14°Υ05'06

0°8

 $0^{\circ}\Pi$

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19°5547'28

-5030 Sep 23 j 08:24

-5030 Oct 21 j 02:01

-5030 Oct 21 j 02:18

-5030 Oct 20 j 00:45

-5030 Oct 22 j 03:51

-5030 Oct 26 j 02:51

conjunction

minimum elong

behind sun begin

behind sun end desc. node

0° m

21° Mp 22'04

21° Mp 22'37

20° m 32'59

22° Mp 12'16

25° m 17'16

0°03'42

0°03'46

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5024 Feb 09 i 03:39 12°517'45 5°18'52 -5019 Feb 11 i 01:28 0°) opposition 11°9545'52 -5024 Feb 10 j 14:54 -5019 Mar 31 j 02:10 $0^{\circ}\Upsilon$ greatest brilliancy -1 9m 27°**Υ**51'09 9°**5**26'59 min. Earth dist. -5024 Feb 17 j 01:26 -5019 May 14 j 07:07 0.53355 AU evening set -5024 Mar 19 j 09:36 3°9510'24 -5019 May 17 j 16:12 0°8 direct 2.64597 AU -5024 Jun 02 j 02:34 $0^{\circ}\Omega$ max. Earth dist. -5019 Jun 14 j 20:47 18°**8**03'51 -5024 Jun 16 j 21:25 9°Ω04'21 desc. node 0° M -5019 Jun 30 j 02:05 -5024 Jul 17 j 22:59 conjunction 27°**8**56'48 1°04'24 0∘**⊽** -5019 Jun 30 j 01:01 -5024 Aug 27 j 23:30 minimum elong 27°**8**55'04 1°04'37 0° M -5019 Jul 03 j 05:30 -5024 Oct 06 j 13:40 Π $^{\circ}$ 0 -5024 Nov 15 j 07:41 0° **₹** morning rise -5019 Aug 14 j 23:43 28°**Ⅲ**26'53 -5024 Dec 26 j 05:14 0°궁 -5019 Aug 17 j 06:41 0ಂತಾ -5019 Sep 29 j 16:42 -5023 Feb 06 j 19:53 0°≈ 0° Ω -5019 Nov 10 j 15:29 evening set -5023 Feb 21 j 20:32 10°≈16'24 0° M -5023 Mar 23 j 07:08 0°**)**€ -5019 Dec 21 j 12:38 0∘**⊽** -5018 Jan 30 j 23:17 0°M conjunction -5023 Apr 14 j 16:05 14°\dagger41'17 -0°12'10 desc. node -5018 Feb 07 j 02:36 5°M16'30 minimum elong -5023 Apr 14 j 16:37 14°**)** 42′08 0°12'15 -5018 Mar 13 j 02:27 0°**⊼** behind sun begin -5023 Apr 14 j 03:22 14° **)** 20'34 -5018 Apr 26 j 08:35 0°る behind sun end -5023 Apr 15 j 05:51 15°**)** 03'41 -5018 Jun 25 j 19:57 0°≈ max. Earth dist. -5023 Apr 28 j 11:51 23°**)** € 39'33 2.64059 AU retrograde -5018 Jul 19 j 09:19 3°≈38'31 asc. node -5023 May 06 j 01:07 28° ¥ 31'54 -5018 Aug 10 j 20:48 30°R₹ -5023 May 08 j 07:52 $0^{\circ}\Upsilon$ min. Earth dist. -5018 Aug 18 i 17:35 27°る20'02 0.51423 AU morning rise -5023 Jun 02 i 03:11 15°**Y**52'35 greatest brilliancy -5018 Aug 25 j 01:49 24°る58'04 -2.1m -5023 Jun 24 i 08:50 0°8 opposition -5018 Aug 26 i 06:33 24°る31'09 -4°53'08 -5023 Aug 10 j 22:41 $\mathbb{I}^{\circ 0}$ direct -5018 Sep 29 j 17:28 17°る01'41 -5023 Sep 28 j 02:32 0ಂತಾ -5018 Nov 20 j 02:03 0°≈≈ -5023 Nov 17 j 00:20 $0^{\circ}\Omega$ -5018 Dec 26 j 17:26 17°≈44'26 asc node -5022 Jan 13 j 00:56 0°m -5017 Jan 18 j 05:14 0°\ -5022 Mar 08 j 01:38 14° Mp 07'36 -5017 Mar 10 j 19:42 $0^{\circ}\Upsilon$ retrograde 8° m/36'44 1°51'19 -5022 Apr 08 j 12:24 -5017 Apr 28 j 20:51 0°8 opposition -5022 Apr 09 j 01:39 8° Mp 27'02 -2.7m -5017 Jun 14 j 20:22 $0^{\circ}II$ greatest brilliancy -5022 Apr 14 j 20:05 min. Earth dist. 6° Mp 46'06 0.40809 AU evening set -5017 Jun 22 j 10:10 4°**I**58'15 -5022 May 04 j 22:34 2° m 36'13 max. Earth dist. -5017 Jul 12 j 13:57 18°**Ц**23'37 2.57005 AU desc. node -5022 May 12 j 02:14 2° m 15'16 -5017 Jul 29 j 15:39 direct 0.00 -5022 Jul 25 j 04:42 0∘**⊽** 7°541'23 1°09'10 -5022 Sep 09 j 03:21 $0^{\circ}M$ -5017 Aug 09 j 18:52 conjunction -5022 Oct 22 j 06:19 -5017 Aug 09 j 19:37 0°⊀ minimum elong 7°542'42 1°09'26 -5022 Dec 04 j 10:47 0°ರ -5017 Sep 10 j 07:43 $0^{\circ}\Omega$ -5021 Jan 17 j 16:49 0°**≈** morning rise -5017 Sep 28 j 20:41 13°**Ω**28'21 -5021 Mar 04 j 06:57 0°**)**€ -5017 Oct 21 j 03:58 0° m -5021 Mar 23 j 21:12 12°**)** 39'59 -5017 Nov 29 j 17:24 0∘**⊽** asc. node -5021 Apr 06 j 07:47 21°¥17'58 desc. node -5017 Dec 26 j 00:07 20°**₽**13'12 evening set -5021 Apr 19 j 22:09 $0^{\circ}\Upsilon$ -5016 Jan 07 j 16:36 0°M max. Earth dist. -5021 May 22 j 22:44 21°**Υ**03'54 2.67028 AU -5016 Feb 15 j 22:08 0°**∡**7 -5016 Mar 27 j 12:14 0°정 21°**Y**′54'40 0°33'12 conjunction -5021 May 24 i 06:35 -5016 May 10 j 02:54 0°≈ -5021 May 24 i 05:29 21°Y52'56 -5016 Jun 30 i 10:04 minimum elong 0°33'16 0°) -5021 Jun 05 i 22:45 0°8 retrograde -5016 Aug 28 i 03:13 17°**¥**23′50 -5021 Jul 08 j 23:18 21°810'04 morning rise min. Earth dist. -5016 Oct 02 i 13:47 9°**升**11'12 0.61882 AU -5021 Jul 22 j 15:46 $0^{\circ}II$ -5016 Oct 06 j 21:47 7°¥27'03 -1°28'35 opposition -5021 Sep 06 j 14:12 0ಂತಾ -5016 Oct 06 j 16:46 7°¥32'05 -1.6m greatest brilliancy -5021 Oct 21 j 16:48 $0^{\circ}\Omega$ -5016 Oct 29 j 23:50 30°R≈ -5021 Dec 05 j 06:18 0°m -5016 Nov 12 j 19:40 28°≈32'23 asc node -5020 Jan 18 j 23:40 0∘∙თ direct -5016 Nov 13 j 20:30 28°≈31'59 0°**₩** -5020 Mar 06 j 00:18 0°M -5016 Nov 29 j 17:46 -5015 Feb 13 j 06:06 $0^{\circ}\Upsilon$ desc. node -5020 Mar 22 j 02:09 9°M15'52 -5020 May 16 j 22:06 0°×7 -5015 Apr 07 j 10:25 0°8 -5020 May 24 j 06:37 0°**х** 22′32 -5015 May 25 j 19:04 $0^{\circ}\Pi$ retrograde -5020 May 31 j 15:36 -5015 Jul 09 j 21:53 0ಂತಾ 30°RM -5020 Jun 20 j 03:40 17°953'01 min. Earth dist. 25°M54'58 0.39625 AU evening set -5015 Aug 04 j 12:01 -5020 Jun 24 j 18:19 greatest brilliancy 24°M34'17 -2.8m max. Earth dist. -5015 Aug 20 j 09:57 29°519'02 2.45362 AU opposition -5020 Jun 26 j 00:00 24°M12'30 -5°54'55 -5015 Aug 21 j 08:30 0° Ω direct -5020 Jul 26 j 06:19 18°M51'51 -5020 Sep 09 j 14:17 0°**∡**¹ conjunction -5015 Sep 27 j 12:59 27°**Ω**36'54 0°31'25 -5020 Nov 05 j 10:50 0°궁 minimum elong -5015 Sep 27 j 14:53 27°**Ω**40′29 0°31'32 -5020 Dec 24 j 19:54 0°**≈** -5015 Sep 30 j 16:28 0° m -5019 Feb 07 j 17:47 27°≈55'47 -5015 Nov 08 j 14:59 0∘**ত** asc. node

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5015 Nov 11 j 21:10 2°**£**32'25 direct -5009 Mar 03 i 17:54 15°**Ⅱ**44'44 desc. node -5015 Nov 27 j 00:48 14°**£**23'09 -5009 Apr 25 j 04:24 0ಂತಾ morning rise -5015 Dec 16 j 23:24 0°M -5009 Jun 16 j 06:48 $0^{\circ}\Omega$ -5009 Jul 04 j 14:35 12°**Ω**22'53 -5014 Jan 24 j 14:34 0°×7 desc. node -5014 Mar 05 j 09:52 0°정 -5009 Jul 29 j 06:57 0° m -5009 Sep 07 j 05:28 -5014 Apr 16 j 07:21 0°22 0∘ಹ -5009 Oct 16 j 04:14 0°**)**€ -5014 May 31 j 12:21 0°M $0^{\circ}\Upsilon$ 0°×7 -5014 Jul 22 j 05:08 -5009 Nov 24 j 10:10 23°Y00'18 asc. node -5014 Sep 30 j 21:55 -5008 Jan 03 j 21:21 0°궁 23°**Y**'01'16 retrograde -5014 Oct 02 j 11:47 evening set -5008 Feb 03 j 10:58 21°る50'39 opposition -5014 Nov 11 j 09:52 13°**Y**15′27 1°32'17 -5008 Feb 15 j 03:13 0°**≈** greatest brilliancy -5014 Nov 11 j 08:12 13°**Υ**17'08 -1.4m min. Earth dist. -5014 Nov 10 j 18:40 13°**Y**30'45 0.66801 AU conjunction -5008 Mar 28 j 16:46 28°≈54'44 -0°30'43 direct -5014 Dec 21 j 14:24 3°Y33'12 minimum elong -5008 Mar 28 j 18:07 28°**≈**57'00 0°30'51 -5013 Mar 13 j 01:26 0°8 -5008 Mar 30 j 08:01 0°**)**€ -5013 May 04 j 19:39 $0^{\circ}II$ max. Earth dist. -5008 Apr 18 j 05:58 12°**升**28'44 2.61426 AU -5013 Jun 20 j 05:48 0ಂತಾ -5008 May 15 j 06:07 $0^{\circ}\Upsilon$ -5013 Aug 01 j 23:51 $0^{\circ}\Omega$ morning rise -5008 May 18 j 02:35 1°Y50'01 -5013 Sep 11 j 05:45 asc. node -5008 May 22 j 17:50 4°Υ48'21 evening set -5013 Sep 29 j 04:58 13° m/49'11 -5008 Jul 01 j 11:06 0°8 desc. node -5013 Sep 29 j 17:51 14° m 14'09 -5008 Aug 18 j 17:01 $0^{\circ}\Pi$ -5013 Oct 19 i 22:55 0°Ω -5008 Oct 07 i 15:10 0ಂತಾ -5013 Nov 27 j 02:04 0°M -5008 Dec 01 j 21:13 $0^{\circ}\Omega$ retrograde -5007 Feb 08 i 00:40 20° € 19'48 -5013 Dec 01 i 18:36 3°M41'07 -0°42'56 -5007 Mar 13 i 06:36 14°Ω00'04 4°03'49 conjunction opposition -5013 Dec 01 j 15:22 3°ML34'45 0°43'01 -5007 Mar 14 j 14:46 minimum elong greatest brilliancy $13^{\circ}\Omega 34'02 - 2.4 \text{m}$ -5012 Jan 04 j 13:21 min. Earth dist. -5007 Mar 21 j 14:39 11°**Ω**19′04 0°×7 0.45462 AU -5012 Jan 05 j 14:26 0°**∡**748'17 -5007 Apr 18 j 15:34 max. Earth dist. 2.38647 AU direct 6°**Ω**19'24 -5012 Feb 07 j 05:01 desc. node -5007 May 21 j 16:39 13°**Ω**05'41 25°**х** 32′14 morning rise -5012 Feb 13 j 05:08 0°정 -5007 Jun 25 j 00:30 0° m -5012 Mar 25 j 18:16 -5007 Aug 10 j 03:14 0°22 0∘Ω -5012 May 08 j 18:33 0°**)**€ -5007 Sep 20 j 22:38 0°M $0^{\circ}\Upsilon$ -5012 Jun 24 j 22:27 -5007 Nov 01 j 02:29 0°**∡**7 -5012 Aug 16 j 13:17 0°8 -5007 Dec 13 j 01:16 0°궁 -5012 Aug 17 j 22:24 asc. node 0°**8**42'53 -5006 Jan 25 j 11:08 0°≈ -5012 Nov 05 j 21:41 0°**)**€ retrograde 26°**8**46'27 -5006 Mar 11 j 11:55 opposition -5012 Dec 14 j 20:56 17°**8**38'09 3°54'00 evening set -5006 Mar 21 j 06:37 6°**∺**23'31 greatest brilliancy -5012 Dec 15 j 05:18 17°**8**29'53 -1.4m asc. node -5006 Apr 09 j 13:08 18° ¥ 53'17 min. Earth dist. -5012 Dec 18 j 00:22 16°**8**23'38 0.65472 AU -5006 Apr 26 j 19:35 $0^{\circ}\Upsilon$ -5011 Jan 24 j 23:47 7°**8**37'13 direct -5011 Apr 06 j 14:02 $0^{\circ}II$ conjunction -5006 May 09 j 09:14 8°Y02'54 0°16'42 -5011 May 28 j 00:41 0ಂತಾ -5006 May 09 j 08:36 8°Y01'54 0°16'43 minimum elong 10°**Υ**49'45 2.66516 AU -5011 Jul 11 j 05:51 $0^{\circ}\Omega$ max. Earth dist. -5006 May 13 j 17:37 -5011 Aug 16 j 14:29 26°**Ω**41'40 -5006 Jun 12 j 18:44 desc. node 0°8 -5011 Aug 20 j 23:27 -5006 Jun 24 j 19:15 0° m morning rise 7°**8**40'10 -5011 Sep 28 i 20:55 0°Ω -5006 Jul 29 i 17:16 $\Pi^{\circ}0$ -5011 Nov 06 i 02:59 0°M -5006 Sep 14 i 06:50 0ಂತಾ -5011 Dec 05 i 06:24 22°M41'38 -5006 Oct 30 j 14:50 $0^{\circ}\Omega$ evening set -5011 Dec 14 j 18:12 0°×7 -5006 Dec 16 j 10:09 0° m -5010 Jan 23 j 15:01 0°궁 -5005 Feb 03 i 21:07 0∘**⊽** desc. node -5005 Apr 08 j 18:18 27°**₽**48'04 -5010 Feb 05 j 20:30 9°₹40'34 -1°06'40 -5005 Apr 26 j 04:36 conjunction retrograde 29°**£**41'31 -5005 May 26 j 20:58 -5010 Feb 05 j 21:42 9°**ප**42'44 1°06'56 24°**△**30'49 -3°33'59 minimum elong opposition -5010 Mar 06 j 07:58 0°22 min. Earth dist. -5005 May 25 j 17:22 24° **△**49'14 0.37770 AU max. Earth dist. -5010 Mar 18 j 05:01 8°≈16'27 2.51207 AU greatest brilliancy -5005 May 26 j 15:00 24°**£**34'48 -2.9m -5005 Jun 25 j 22:25 -5010 Apr 05 j 06:44 20°≈38'53 direct 19°**₽**29'42 morning rise -5010 Apr 19 j 04:35 0°) -5005 Aug 07 j 23:28 0°M 0°Υ -5010 Jun 04 j 05:56 -5005 Oct 02 j 04:03 0°**∡**7 -5010 Jul 05 j 21:25 19°**Y**47′50 0°정 asc. node -5005 Nov 18 j 13:44 -5010 Jul 22 j 15:51 0°8 -5004 Jan 04 j 00:53 0°≈ -5010 Sep 12 j 21:13 Π °0 -5004 Feb 19 j 21:36 0°**₩** -5010 Nov 21 j 09:38 0 \circ \odot -5004 Feb 25 j 09:51 3°**₩**30'15 asc. node retrograde -5010 Dec 16 j 13:39 3°927'43 -5004 Apr 07 j 05:38 $0^{\circ}\Upsilon$ -5009 Jan 08 j 21:11 30°R∏ evening set -5004 Apr 29 j 08:48 14°**Y**00′30 opposition -5009 Jan 22 j 10:20 25°**Ⅲ**22'41 5°17'13 -5004 May 24 j 12:41 0°8 greatest brilliancy -5009 Jan 23 j 14:58 24°**Ⅱ**55'45 max. Earth dist. -5004 Jun 05 j 09:35 7°835'19 2.66182 AU -1.7m

min. Earth dist.

-5009 Jan 29 j 05:04

22°**I**50'03 0.57873 AU

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -5004 Jun 15 j 07:47 13°**8**57'38 0°54'43 -4999 Jun 10 j 02:03 0°) conjunction minimum elong -5004 Jun 15 j 06:30 13°855'34 0°54'52 -4999 Aug 06 j 19:58 $0^{\circ}\Upsilon$ 9°**Υ**'50'44 -5004 Jul 10 j 02:04 $0^{\circ}II$ -4999 Sep 19 j 00:09 retrograde -5004 Jul 30 j 18:39 13°**Ⅲ**35′08 -4999 Oct 17 j 12:05 4°Υ25'21 morning rise asc. node 0°**Υ**47'24 -5004 Aug 24 j 09:38 0ಂಣ min. Earth dist. -4999 Oct 26 j 22:02 0.65611 AU -5004 Oct 07 j 07:56 $0^{\circ}\Omega$ -4999 Oct 28 j 21:03 30°**₹** -5004 Nov 19 j 00:24 29°**¥**56′28 0° m opposition -4999 Oct 29 j 00:33 0°26'33 -5004 Dec 30 j 20:25 0∘ଫ greatest brilliancy -4999 Oct 28 j 23:33 29°**)** 57'29 -1.4m -5003 Feb 10 j 13:15 0°M direct -4999 Dec 07 j 11:51 20°**¥**29′06 desc. node -5003 Feb 23 j 19:23 9°M23'54 -4998 Jan 20 j 15:20 $0^{\circ}\Upsilon$ -5003 Mar 25 j 19:32 0°⊀ -4998 Mar 23 j 17:12 0°8 0°る -4998 May 13 j 02:11 $\Pi^{\circ}0$ -5003 May 15 j 22:28 -5003 Jun 30 j 04:39 -4998 Jun 27 j 20:15 0ಂತಾ retrograde 12°**る**12'47 min. Earth dist. -5003 Jul 28 j 08:48 6°**ප**48'14 0.46442 AU -4998 Aug 09 j 09:55 $0^{\circ}\Omega$ greatest brilliancy -5003 Aug 03 j 22:00 4°**る**32'03 -2.3m evening set -4998 Sep 05 j 15:39 20°**Ω**09'16 opposition -5003 Aug 05 j 11:39 3°る59'07 -5°58'27 -4998 Sep 18 j 15:37 0° m -5003 Aug 18 j 03:41 30°₽**✓** max. Earth dist. -4998 Oct 11 j 17:33 17° **m** 46'05 2.38517 AU direct -5003 Sep 07 j 06:52 27°**∡**17'56 desc. node -4998 Oct 16 j 12:05 21° m/28'48 -5003 Sep 28 j 09:41 0°る -4998 Oct 27 j 09:56 0°Ω -5003 Dec 06 j 14:15 0°≈ asc. node -5002 Jan 12 j 09:00 20°≈49'41 conjunction -4998 Nov 04 j 15:05 6° \$\oldsymbol{\Omega}26'21 \quad \quad 0° 13'56 -5002 Jan 27 i 23:11 0°**)**€ minimum elong -4998 Nov 04 i 13:52 6°**£**23'59 0°13'56 -5002 Mar 18 j 16:49 $0^{\circ}\Upsilon$ behind sun begin -4998 Nov 03 j 23:31 5°**£**55'50 -5002 May 06 i 00:37 0°8 behind sun end -4998 Nov 05 i 04:13 6°**£**52'09 -5002 Jun 06 j 22:12 20°**8**20'50 -4998 Dec 04 i 14:14 0°M evening set -5002 Jun 21 j 18:34 $0^{\circ}II$ -4997 Jan 10 j 14:32 28°M51'39 morning rise -5002 Jul 01 j 02:55 6°**П**08'39 2.60559 AU -4997 Jan 12 j 02:00 0°×7 max Earth dist -4997 Feb 20 j 17:44 0°궁 -5002 Jul 24 j 06:59 21°II36'44 1°11'24 -4997 Apr 03 j 07:52 0°≈ conjunction -5002 Jul 24 j 06:51 -4997 May 17 j 14:06 0°) minimum elong 21°**Ⅲ**36'32 1°11'40 -4997 Jul 04 j 17:39 -5002 Aug 05 j 15:09 0° 0ಂತಾ 0° 8 -5002 Sep 10 j 02:39 24°5642'41 -4997 Aug 31 j 00:13 morning rise -4997 Sep 04 j 13:24 -5002 Sep 17 j 13:00 0° Ω 1°**8**55'46 asc. node -5002 Oct 28 j 17:47 0° m -4997 Oct 23 j 20:17 13°**8**45'39 retrograde -5002 Dec 07 j 16:53 -4997 Dec 02 j 07:28 4°**8**19'56 3°04'15 0∘**⊽** opposition -5001 Jan 11 j 18:44 -4997 Dec 02 j 10:09 desc. node 26°**♀**43'04 greatest brilliancy 4°**8**17'15 -1.3m 3°840'28 0.66765 AU -5001 Jan 16 j 02:03 -4997 Dec 03 j 23:02 0°M min. Earth dist. -5001 Feb 24 j 18:28 0°**√** -4997 Dec 13 j 13:29 30°RY -5001 Apr 07 j 01:51 0°ರ direct -4996 Jan 12 j 05:42 24°\bar{Y}22'46 -5001 May 22 j 14:23 0°**≈** -4996 Feb 13 j 20:01 0°8 -5001 Jul 27 j 17:42 0°**)**€ -4996 Apr 18 j 08:35 $0^{\circ}\Pi$ -5001 Aug 14 j 07:31 2°\mathcal{H}00'38 -4996 Jun 05 j 22:52 0ಂತಾ retrograde -5001 Aug 31 j 00:44 -4996 Jul 19 j 09:31 $0^{\circ}\Omega$ 30°R≈ -5001 Sep 16 j 22:18 24°≈27'37 0.58364 AU -4996 Aug 28 j 20:36 min. Earth dist. 0° M -5001 Sep 22 j 15:37 -4996 Sep 02 j 09:44 3°m/28'08 opposition 22°≈12'10 -2°47'29 desc. node -5001 Sep 22 i 03:00 greatest brilliancy 22°≈24'36 -1.7m -4996 Oct 06 i 15:01 0∘**⊽** -5001 Oct 29 i 09:00 direct 13°≈44'53 evening set -4996 Nov 08 i 07:37 25°**-**42'25 asc. node -5001 Nov 30 i 10:05 19°≈15'55 -4996 Nov 13 j 18:40 0°M -5001 Dec 28 i 05:24 0°**∀** -4996 Dec 22 j 06:56 0°×7 $0^{\circ}\Upsilon$ -5000 Feb 24 j 09:58 -5000 Apr 15 j 09:49 0°8 -4995 Jan 12 j 07:36 16°**∡**101'43 -1°07'37 conjunction -5000 Jun 02 j 01:52 $0^{\circ}II$ -4995 Jan 12 j 06:36 15°**₹**59'51 1°07'53 minimum elong -5000 Jul 17 j 09:22 0°915'30 -4995 Jan 31 j 00:16 0°궁 evening set -5000 Jul 17 j 00:21 0000 max. Earth dist. -4995 Feb 28 j 11:17 20°る41'56 2.46124 AU max. Earth dist. -5000 Aug 02 j 05:25 11°5015'17 2.50235 AU -4995 Mar 13 j 14:07 0°≈ -5000 Aug 28 j 12:16 $0^{\circ}\Omega$ morning rise -4995 Mar 15 j 22:09 1°≈38'24 -4995 Apr 26 j 09:49 0°) -5000 Sep 06 j 14:15 6°Ω36'58 0°52'06 -4995 Jun 11 j 17:01 $0^{\circ}\Upsilon$ conjunction -5000 Sep 06 j 16:14 6°**Ω**40'37 0°52'18 -4995 Jul 22 j 12:14 24° Y 57'13 minimum elong asc. node -5000 Oct 08 j 00:14 0° m -4995 Jul 31 j 02:40 0°8 $0^{\circ}\Pi$ morning rise -5000 Nov 01 j 06:05 18° m 29'39 -4995 Sep 25 j 06:28 -5000 Nov 16 j 03:35 0∘**⊽** retrograde -4995 Nov 29 j 17:43 18°**Ⅱ**41'14 desc. node -5000 Nov 28 j 15:20 9°**£**42'01 opposition -4994 Jan 06 j 13:54 10°**I**07'37 4°54'49 -5000 Dec 24 j 16:38 0°M greatest brilliancy -4994 Jan 07 j 10:10 9°**Ⅱ**48′05 -1.5m -4999 Feb 01 j 11:40 0°**∡** min. Earth dist. -4994 Jan 11 j 23:44 8°**Д**02'36 0.61575 AU -4999 Mar 13 j 11:10 0°る -4994 Feb 16 j 11:29 0°**I**13'37 direct -4999 Apr 24 j 17:27 -4994 May 10 j 14:17 0ಂತಾ 0°≈

•			•	, ·	5400 BCE in historical c	, ,	C 41
,	-4994 Jun 26 j 16:53	Jo°W		conjunction	-4989 Jun 01 j 17:05	0° 8 13'43	0°41'52
desc. node	-4994 Jul 21 j 07:53	17° Ω 24'45		minimum elong	-4989 Jun 01 j 15:51	0° 8 11'44	0°41'58
	-4994 Aug 07 j 10:26	0° m		_	-4989 Jun 01 j 08:30	9° 8	
	-4994 Sep 15 j 19:16	0∘ ⊽		morning rise	-4989 Jul 17 j 04:48	29° 8 29'22	
	-4994 Oct 24 j 09:01	0° M			-4989 Jul 17 j 23:41	Π °0	
	-4994 Dec 02 j 07:03	0° ₹			-4989 Sep 01 j 16:09	0 \circ	
	-4993 Jan 11 j 10:34	0°ප			-4989 Oct 16 j 07:04	0 $^{\circ}\Omega$	
evening set	-4993 Jan 12 j 20:02	1° る 01'11			-4989 Nov 29 j 01:14	0° ™	
	-4993 Feb 22 j 09:33	0° ≈			-4988 Jan 11 j 10:18	0∘ ⊽	
					-4988 Feb 24 j 14:46	0° M	
conjunction	-4993 Mar 11 j 03:48	11° ≈ 35'43		desc. node	-4988 Mar 12 j 12:07	10°M55'24	
minimum elong	-4993 Mar 11 j 05:46	11° ≈ 39'05	0°48'09	_	-4988 Apr 14 j 02:56	0° ∡ 7	
	-4993 Apr 07 j 09:12	0°) (retrograde	-4988 Jun 07 j 18:10	16° ₹ 50'53	
max. Earth dist.	-4993 Apr 08 j 05:46		2.57963 AU	min. Earth dist.	-4988 Jul 04 j 11:45	12° ∡ 12'10	0.41719 AU
morning rise	-4993 May 03 j 04:26	17°) €00'38		greatest brilliancy	-4988 Jul 10 j 06:36	10° ₹ 24'20	-2.6m
1	-4993 May 23 j 06:21	0°γ		opposition	-4988 Jul 11 j 20:01	9° 🖈 55'03	-6°20'42
asc. node	-4993 Jun 09 j 09:42	10° Y 56′12		direct	-4988 Aug 11 j 20:25	4°ダ08'03 0°る	
	-4993 Jul 09 j 18:20	0°¤ 8°0			-4988 Oct 27 j 00:08	0° ≈	
	-4993 Aug 28 j 00:10	0. 0.П		aga mada	-4988 Dec 18 j 08:48	0°≈ 25°≈17'06	
	-4993 Oct 19 j 22:07 -4992 Jan 08 j 16:21	0°Ω		asc. node	-4987 Jan 28 j 23:55 -4987 Feb 05 j 16:16	23 ≈ 1706 0° ∺	
ratragrada	-4992 Jan 16 j 08:40	0° Ω 21'27			-4987 Mar 26 j 05:00	0°Υ	
retrograde	-4992 Jan 23 j 21:24	0 8€ 2127			-4987 May 13 j 00:42	%8 0°B	
opposition	-4992 Feb 20 j 06:10	23°9514'33	5°05'04	evening set	-4987 May 22 j 20:01	6° 8 14'07	
greatest brilliancy	-4992 Feb 21 j 18:59	22°542'17		max. Earth dist.	-4987 Jun 20 j 13:58	24° 8 44'24	2.63372 AU
min. Earth dist.	-4992 Feb 28 j 14:58	20°519'49		max. Earth dist.	-4987 Jun 28 j 15:32	0°П	2.03372710
direct	-4992 Mar 29 j 16:35	14°532'11	0.50001710		1907 Juli 20 j 13.32	· L	
4.1.001	-4992 May 21 j 22:43	0° Ω		conjunction	-4987 Jul 08 j 17:01	6° Ⅱ 36'33	1°08'16
desc. node	-4992 Jun 07 j 08:06	8° Ω 53'57		minimum elong	-4987 Jul 08 j 16:14	6° Ⅱ 35'15	1°08'30
	-4992 Jul 10 j 15:06	0° m		S	-4987 Aug 12 j 15:10	0° ©	
	-4992 Aug 21 j 17:36	0∘ ⊽		morning rise	-4987 Aug 24 j 02:44	7° © 51'13	
	-4992 Sep 30 j 21:08	0° M		•	-4987 Sep 24 j 20:33	$0^{\circ}\Omega$	
	-4992 Nov 10 j 00:04	0°⊀			-4987 Nov 05 j 12:16	0° ™	
	-4992 Dec 21 j 04:21	0°ප			-4987 Dec 16 j 00:13	0∘ ত	
	-4991 Feb 02 j 00:13	0° ≈			-4986 Jan 24 j 23:44	0° M	
evening set	-4991 Mar 04 j 04:13	20° ≈ 24'36		desc. node	-4986 Jan 28 j 11:37	2°M37'11	
	-4991 Mar 18 j 14:52	0° ∀			-4986 Mar 06 j 10:17	0° ∡	
					-4986 Apr 18 j 03:20	0°る	
conjunction	-4991 Apr 23 j 21:38	23°) (40′36			-4986 Jun 07 j 14:21	0° ≈	
minimum elong	-4991 Apr 23 j 21:43	23°) (40′45	0°01'25	retrograde	-4986 Jul 29 j 06:38	14° ≈ 52'41	
behind sun begin	-4991 Apr 23 j 01:32	23°) (18'10		min. Earth dist.	-4986 Aug 29 j 20:38	8°≈05'37	0.54083 AU
behind sun end	-4991 Apr 24 j 17:55	24°) 13'20		opposition	-4986 Sep 05 j 19:47	5°≈25'27	
asc. node	-4991 Apr 26 j 06:18	25°¥12'05 0° Y		greatest brilliancy	-4986 Sep 04 j 21:08	5°≈47'12	-1.9m
max. Earth dist.	-4991 May 03 j 17:02		2.65154 AU	3:4	-4986 Sep 22 j 03:21	30°Rる 27°る33'03	
	-4991 May 04 j 04:15 -4991 Jun 10 j 12:19	24° Υ 10'09	2.03134 AU	direct	-4986 Oct 11 j 02:58	27 ⊘ 33 03 03 0° ≈	
morning rise	-4991 Jun 10 j 12:19 -4991 Jun 19 j 16:25	0° 8		asc. node	-4986 Oct 31 j 14:03 -4986 Dec 17 j 00:29	0°≈ 17°≈20'43	
	-4991 Juli 19 j 10:23	0°II		asc. node	-4985 Jan 11 j 01:28	0°)	
	-4991 Aug 03 j 23.28 -4991 Sep 22 j 10:49	0ಂತಿ ೧ π			-4985 Mar 05 j 07:52	0°Υ	
	-4991 Nov 09 j 16:51	0°Ω			-4985 Apr 23 j 23:19	%8 0°B	
	-4991 Dec 31 j 00:06	0° mp			-4985 Jun 10 j 04:28	0°II	
retrograde	-4990 Mar 25 j 05:59	29° Mp 45'57		evening set	-4985 Jul 01 j 13:22	14° Ⅱ 05'41	
opposition	-4990 Apr 25 j 02:16	24° m/34'58	0°01'32	max. Earth dist.	-4985 Jul 19 j 18:33	26° Ⅱ 23'06	2.54777 AU
greatest brilliancy	-4990 Apr 25 j 02:29	24° m 34'49	-2.9m		-4985 Jul 25 j 01:20	0ಂತಾ	
desc. node	-4990 Apr 25 j 10:31	24° m/29'16			,		
min. Earth dist.	-4990 Apr 29 j 05:25	23° m/26'32	0.38966 AU	conjunction	-4985 Aug 19 j 17:16	17° © 53'03	1°05'01
direct	-4990 May 26 j 23:34	18° m 54'36		minimum elong	-4985 Aug 19 j 18:33	17° © 55'18	1°05'17
	-4990 Jul 09 j 12:35	0∘ ⊽		-	-4985 Sep 05 j 16:19	0 ° Ω	
	-4990 Aug 31 j 07:40	0° M		morning rise	-4985 Oct 10 j 11:25	25° Ω 33′20	
	-4990 Oct 15 j 10:41	0° ∡ ¹			-4985 Oct 16 j 09:50	0° ™	
	-4990 Nov 28 j 15:04	∂ංප			-4985 Nov 24 j 19:21	0∘ ⊽	
	-4989 Jan 12 j 11:23	0° ≈		desc. node	-4985 Dec 16 j 10:43	16° ≙ 43'07	
	-4989 Feb 27 j 10:05	0°) €			-4984 Jan 02 j 14:15	0° M	
asc. node	-4989 Mar 14 j 01:58	9° ∺ 26′13			-4984 Feb 10 j 14:45	0° ∡	
evening set	-4989 Apr 15 j 05:13	29° ¥ 58'31			-4984 Mar 21 j 21:13	0°ප	
	-4989 Apr 15 j 06:09	0° Υ			-4984 May 03 j 19:12	0° ≈	
max. Earth dist.	-4989 May 28 j 06:49	27° 'Y'24'07	2.66946 AU		-4984 Jun 21 j 09:45	0°) €	

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -4984 Sep 05 j 06:25 26°**)**(07'42 -4979 Sep 23 j 22:02 0∘**⊽** retrograde -4984 Oct 11 j 15:38 17°**)** € 35'43 0.63478 AU -4979 Nov 01 j 06:04 0°M min. Earth dist. -4984 Oct 15 j 05:03 16°**)** €09'52 -0°44'41 -4979 Dec 09 j 22:46 0°×7 opposition -4984 Oct 15 j 03:02 7°**х** 32′06 16°**)** 11′54 -1.5m -4979 Dec 19 j 19:56 greatest brilliancy evening set asc. node -4984 Nov 03 j 01:52 9°**)**35'34 -4978 Jan 18 j 20:51 0°궁 direct -4984 Nov 22 j 18:36 7°**米**01'51 $0^{\circ}\Upsilon$ -4983 Feb 05 j 13:07 conjunction -4978 Feb 18 j 14:14 22°る13'07 -1°01'39 0° 8 22°**ප්**16'24 1°01'54 -4983 Apr 01 j 20:29 minimum elong -4978 Feb 18 j 16:05 -4983 May 20 j 20:05 Π °0 -4978 Mar 01 j 14:55 0°≈ -4983 Jul 05 j 04:24 0ಂತಾ max. Earth dist. -4978 Mar 26 j 15:53 17°≈18'26 2.53804 AU evening set -4983 Aug 15 j 12:42 29°909'29 -4978 Apr 14 j 11:26 0°**)**€ -4983 Aug 16 j 16:32 $0^{\circ}\Omega$ morning rise -4978 Apr 15 j 21:51 0°**)** 57′27 $0^{\circ}\Upsilon$ max. Earth dist. -4983 Sep 02 j 16:00 12°**Ω**27'57 2.42689 AU -4978 May 30 j 09:57 -4983 Sep 26 j 00:10 asc. node -4978 Jun 26 j 02:47 16°**Y**51'47 -4978 Jul 17 j 09:20 0°8 conjunction -4983 Oct 10 j 11:43 11° Mp 04'40 0°16'22 -4978 Sep 06 j 04:37 $0^{\circ}\Pi$ minimum elong -4983 Oct 10 j 12:54 11°M)06'57 0°16'27 -4978 Nov 04 j 10:24 0ಂತಾ desc. node -4983 Nov 02 j 07:23 28° m 46'00 retrograde -4978 Dec 27 j 00:36 12°958'49 -4983 Nov 03 j 21:19 0∘**⊽** opposition -4977 Feb 01 j 06:27 5°9512'17 5°20'49 morning rise -4983 Dec 12 j 17:11 0°M25'34 greatest brilliancy -4977 Feb 02 j 15:04 4°5642'13 -1.8m -4983 Dec 12 j 04:08 0°M min. Earth dist. -4977 Feb 08 j 17:31 2°527'57 0.55474 AU -4982 Jan 19 j 17:30 0°×7 -4977 Feb 16 i 00:05 30°RⅡ -4982 Feb 28 i 10:17 0°정 direct -4977 Mar 13 i 01:45 25°**Ⅱ**49'17 -4982 Apr 11 i 03:14 0°≈ -4977 Apr 08 j 10:04 0ಂತಾ -4982 May 25 j 20:06 0°**)**€ -4977 Jun 08 j 16:32 $0^{\circ}\Omega$ -4982 Jul 14 j 16:56 $0^{\circ}\Upsilon$ -4977 Jun 25 j 01:25 10°**Ω**32'59 desc node -4982 Sep 21 j 03:16 28°Y46'22 -4977 Jul 23 j 02:44 O° m asc node -4982 Sep 28 j 00:19 0°8 -4977 Sep 01 j 14:40 0∘Ω -4982 Oct 10 j 05:34 -4977 Oct 10 j 21:11 0°**8**54'25 oom. retrograde -4982 Oct 21 j 21:22 -4977 Nov 19 j 08:42 0°×7 30°R℃ opposition 21°**Y**14'38 2°07'58 -4977 Dec 30 j 00:07 0°궁 -4982 Nov 19 j 01:06 greatest brilliancy -4982 Nov 19 j 00:16 21°**Y**15'29 -4976 Feb 10 j 09:27 0°≈ -1.3m min. Earth dist. -4982 Nov 19 j 05:08 21°Υ10'35 0.67059 AU -4976 Feb 14 j 17:16 2°≈59'13 evening set -4982 Dec 29 j 13:35 11°**Υ**25'54 -4976 Mar 25 j 16:23 direct 0°**₩** -4981 Mar 04 j 19:09 0° 8 -4976 Apr 07 j 13:11 8°\;\;29'49 -0°20'02 -4981 Apr 29 j 01:41 $0^{\circ}\Pi$ conjunction -4981 Jun 15 j 03:40 0ಂತಾ minimum elong -4976 Apr 07 j 14:04 8°**\(\)**31'16 0°20'09 -4981 Jul 28 j 03:17 $0^{\circ}\Omega$ max. Earth dist. -4976 Apr 24 j 07:22 19°**升**26'54 2.62976 AU -4981 Sep 06 j 11:06 0° m -4976 May 10 j 14:59 $0^{\circ}\Upsilon$ desc. node -4981 Sep 20 j 03:28 10° m 29'53 asc. node -4976 May 12 j 22:49 1°Y29'50 -4981 Oct 13 j 13:31 28° Mp 43'25-4976 May 26 j 19:25 10°**Y**22'45 evening set morning rise -4981 Oct 15 j 04:37 0∘**ত** -4976 Jun 26 j 16:53 0°8 -4976 Aug 13 j 12:43 $0^{\circ}\Pi$ -4981 Nov 22 j 07:44 0° M -4976 Oct 01 j 08:18 0ಂತಾ -4981 Dec 17 j 09:38 19°M37'58 -0°55'36 -4976 Nov 21 j 23:41 conjunction 0° Ω minimum elong -4981 Dec 17 i 06:28 19°M31'49 0°55'46 -4975 Jan 28 i 15:57 0° m -4981 Dec 30 i 18:56 0°×7 -4975 Feb 23 i 08:34 3° m 40'41 retrograde max. Earth dist. -4980 Feb 02 i 04:45 25° ₹21'40 2.41017 AU -4975 Mar 20 i 01:55 30°RΩ -4980 Feb 08 i 10:26 0°궁 -4975 Mar 27 i 13:06 27°Ω48'51 2°58'20 opposition -4980 Feb 21 j 16:10 9°₹44'00 -4975 Mar 28 j 12:13 27°Ω31'07 -2.6m morning rise greatest brilliancy -4980 Mar 20 j 22:46 0°**≈** min. Earth dist. -4975 Apr 04 j 01:09 25°Ω31'14 0.42741 AU -4980 May 03 j 19:38 0°**₩** direct -4975 May 01 j 10:57 20°**Ω**50'59 -4980 Jun 19 j 13:00 $0^{\circ}\Upsilon$ desc. node -4975 May 12 j 02:18 21°**Ω**37'37 29°**℃**14'17 0° m -4980 Aug 08 j 04:23 -4975 Jun 09 j 05:32 asc. node -4975 Aug 01 j 10:00 -4980 Aug 09 j 13:35 0°8 0∘**⊽** -4980 Oct 15 j 03:44 $0^{\circ}II$ -4975 Sep 14 j 00:52 0°M -4980 Nov 14 j 07:05 4°**I**151'32 -4975 Oct 26 j 03:04 0°×7 retrograde 30°R₩ -4975 Dec 07 j 15:48 0°정 -4980 Dec 11 j 20:48 25°854'13 4°19'05 -4974 Jan 20 j 11:11 0°≈ opposition -4980 Dec 22 j 21:56 25°**8**42'12 -1.4m 0°**)**€ greatest brilliancy -4980 Dec 23 j 10:11 -4974 Mar 06 j 17:56 15°\ 26'33 min. Earth dist. -4980 Dec 26 j 20:44 24°**8**21'16 0.64361 AU evening set -4974 Mar 30 j 13:15 direct -4979 Feb 02 j 00:54 15°**8**53'42 asc. node -4974 Mar 30 j 19:00 15°**H**35'49 -4979 Mar 27 j 23:58 $0^{\circ}II$ -4974 Apr 22 j 05:02 0° Υ -4979 May 21 j 20:11 0 \circ \odot -4979 Jul 05 j 20:25 0° Ω conjunction -4974 May 17 j 23:07 16°**Y**27′16 0°26'29 desc. node -4979 Aug 07 j 01:16 23°**£**22'33 -4974 May 17 j 22:12 16°**Y**25'48 minimum elong 0°26'33 -4979 Aug 15 j 21:19 max. Earth dist. -4974 May 19 j 03:55 17°**Υ**13'12 2.66907 AU Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 43 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.							
	-4974 Jun 08 j 04:40	0° 8			-4969 Oct 05 j 09:42	30°R ≈	
morning rise	-4974 Jul 02 j 22:08	15° 8 48'40		direct	-4969 Nov 07 j 23:48	22° ≈ 47'31	
	-4974 Jul 25 j 00:05	Π°		asc. node	-4969 Nov 20 j 16:23	23° ≈ 45'01	
	-4974 Sep 09 j 05:13	0ංම			-4969 Dec 15 j 08:23	0° ∀	
	-4974 Oct 24 j 19:46	0 \circ Ω			-4968 Feb 17 j 23:23	0° Υ	
	-4974 Dec 09 j 05:38	0° m)			-4968 Apr 10 j 04:02	0° 8	
	-4973 Jan 24 j 11:56	0∘ 亚			-4968 May 28 j 06:20	0° I	
	-4973 Mar 16 j 16:23	0°M			-4968 Jul 12 j 08:40	0°©	
desc. node	-4973 Mar 30 j 05:21	6°M30'09		evening set	-4968 Jul 27 j 12:04	10°529'38	2 47576 ATT
retrograde	-4973 May 13 j 01:59	17°M34'13	0.20420 ATT	max. Earth dist.	-4968 Aug 11 j 19:34		2.47576 AU
min. Earth dist.	-4973 Jun 09 j 17:46	13°M.04'00	0.38430 AU		-4968 Aug 23 j 21:00	$0 {\circ} \Omega$	
opposition	-4973 Jun 13 j 18:20	11°M56'48			40(0 C 10:02.40	100 025157	0941116
greatest brilliancy	-4973 Jun 12 j 22:46	12°M 10'26	-2.9m	conjunction	-4968 Sep 18 j 03:40	18° Ω 35'56	
direct	-4973 Jul 13 j 17:10 -4973 Sep 21 j 04:10	6°ጤ51'06 0° <i>ጃ</i>		minimum elong	-4968 Sep 18 j 05:45 -4968 Oct 03 j 07:40	18° Ω 39'49 0° m	0-41-26
	-4973 Nov 11 j 08:45	0°る			-4968 Nov 11 j 08:38	0∘ ت رابا	
	-4973 Dec 29 j 05:35	0°≈		morning rise	-4968 Nov 15 j 09:38	ა 	
	-4972 Feb 14 j 18:41	0° ∺		desc. node	-4968 Nov 19 j 01:38	6° ± 00'00	
asc. node	-4972 Feb 15 j 15:26	0°) 32'40		desc. node	-4968 Dec 19 j 18:59	0°M	
use. Houe	-4972 Apr 02 j 11:23	0° Υ			-4967 Jan 27 j 11:18	0° ∡ 7	
evening set	-4972 May 07 j 22:38	22° Υ 23'10			-4967 Mar 08 j 07:07	°ਤ ਹ°ਤੇ	
e venning see	-4972 May 19 j 22:20	0°8			-4967 Apr 19 j 06:20	0° ≈	
max. Earth dist.	-4972 Jun 10 j 21:47		2.65412 AU		-4967 Jun 03 j 18:46	0°) €	
man. Darur alov.	1972 0 411 10 1 21.17	1. 000 10	2.00 112 110		-4967 Jul 27 j 02:33	0°Υ	
conjunction	-4972 Jun 23 j 17:58	22° 8 21'11	1°00'44	retrograde	-4967 Sep 26 j 18:34	17° Y ′54'46	
minimum elong	-4972 Jun 23 j 16:48	22° 8 19'16		asc. node	-4967 Oct 07 j 18:34	17° Y °05'38	
8	-4972 Jul 05 j 12:03	0°II		min. Earth dist.	-4967 Nov 04 j 11:12	8° Y '36'12	0.66389 AU
morning rise	-4972 Aug 08 j 09:02	22° I I23'15		opposition	-4967 Nov 05 j 18:35	8° Y °04'36	1°05'31
S	-4972 Aug 19 j 16:51	0°©		greatest brilliancy	-4967 Nov 05 j 16:47	8° Y 06'25	
	-4972 Oct 02 j 08:47	$0^{\circ}\Omega$		· ·	-4967 Nov 30 j 08:52	30° ₹ ₩	
	-4972 Nov 13 j 15:41	0° m)		direct	-4967 Dec 15 j 16:26	28° ¥ 28'35	
	-4972 Dec 24 j 22:18	0∘ ⊽			-4967 Dec 31 j 24:00	$0^{\circ}\Upsilon$	
	-4971 Feb 03 j 20:27	0°M₊			-4966 Mar 17 j 00:29	9° 8	
desc. node	-4971 Feb 14 j 06:32	7°MJ35'19			-4966 May 07 j 17:27	Π $^{\circ}0$	
	-4971 Mar 17 j 16:13	0° ∡ ¹			-4966 Jun 22 j 22:04	0 \circ \odot	
	-4971 May 02 j 16:42	0°ಕ			-4966 Aug 04 j 15:31	$0^{\circ}\Omega$	
retrograde	-4971 Jul 11 j 10:12	25° る 12'38			-4966 Sep 13 j 22:26	0° m	
min. Earth dist.	-4971 Aug 09 j 19:06	19° ප 18'06	0.49191 AU	evening set	-4966 Sep 18 j 15:21	3°m/35'37	
greatest brilliancy	-4971 Aug 16 j 07:13	16° පි 56'27	-2.2m	desc. node	-4966 Oct 06 j 22:13	17° m 41'58	
opposition	-4971 Aug 17 j 16:27	16° පි 26'06	-5°24'21		-4966 Oct 22 j 16:34	0∘ ⊽	
direct	-4971 Sep 20 j 09:10	9° ට 17'21					
	-4971 Nov 27 j 06:24	0° ≈		conjunction	-4966 Nov 19 j 17:41	22° ჲ 02'57	
asc. node	-4970 Jan 02 j 14:32	19° ≈ 08'14		minimum elong	-4966 Nov 19 j 15:04	21° ≏ 57'48	
	-4970 Jan 21 j 18:50	0°) €		max. Earth dist.	-4966 Nov 25 j 23:51		2.37683 AU
	-4970 Mar 13 j 12:17	0° Υ			-4966 Nov 29 j 20:10	0° ™	
	-4970 May 01 j 06:02	0°8			-4965 Jan 07 j 07:06	0° ∡ 7	
evening set	-4970 Jun 15 j 17:42	29° 8 04'17		morning rise	-4965 Jan 26 j 10:29	14° ∡ ³38'41	
F 4 F 4	-4970 Jun 17 j 03:50	0°II	2.50607 ATT		-4965 Feb 15 j 21:41	5°0	
max. Earth dist.	-4970 Jul 07 j 13:06	13° Ⅱ 27'19 0° ©	2.58687 AU		-4965 Mar 29 j 09:42	0° €	
	-4970 Aug 01 j 00:46	0.50			-4965 May 12 j 10:26		
aoniumatiam	4070 Ava 02: 12:40	100202112	1010/50		-4965 Jun 28 j 20:57	0° ႘	
conjunction	-4970 Aug 02 j 13:40	1°503'12 1°503'50		aga mada	-4965 Aug 21 j 20:13	1° 8 55'44	
minimum elong	-4970 Aug 02 j 14:02		1-11-05	asc. node	-4965 Aug 25 j 19:11		
marning rise	-4970 Sep 12 j 20:14	0°Ω 5°Ω20!5°		retrograde	-4965 Oct 31 j 20:20	21° 8 38'59	2022157
morning rise	-4970 Sep 20 j 12:14 -4970 Oct 23 j 21:01	5° Ω 30'58 0° m		opposition greatest brilliancy	-4965 Dec 10 j 01:38 -4965 Dec 10 j 07:14	12° 8 22'18	3°33'57
	-	0∘ ত اللا				12 8 1643	
desc. node	-4970 Dec 02 j 14:58 -4969 Jan 02 j 04:33	23° £ 25'05		min. Earth dist. direct	-4965 Dec 12 j 12:47 -4964 Jan 20 j 03:20	2° 8 22'32	0.001/1 AU
desc. Houe	-4969 Jan 10 j 18:23	23 = 23 03 0° M		uncei	-4964 Apr 11 j 04:14	2 О 22 32 0° П	
	-4969 Feb 19 j 03:51	0° ⊼			-4964 May 31 j 07:43	0°©	
	-4969 Mar 31 j 23:03	0°る			-4964 Jul 14 j 05:42	0°Ω	
	-4969 May 15 j 03:11	0°≈		desc. node	-4964 Aug 23 j 18:35	29° Ω 54'33	
	-4969 Jul 08 j 08:57	0° ∺		desc. node	-4964 Aug 23 j 21:28	0° m)	
retrograde	-4969 Aug 22 j 22:03	11° ¥ 25′01			-4964 Oct 01 j 17:59	0° ت	
min. Earth dist.	-4969 Sep 26 j 13:29	3° ¥ 29'51	0.60401 AU		-4964 Nov 08 j 22:54	0° m	
opposition	-4969 Oct 01 j 13:10	1°) € 30'46		evening set	-4964 Nov 23 j 15:20	11°M29'46	
greatest brilliancy	-4969 Oct 01 j 05:13	1°) 38'41		<i>5</i>	-4964 Dec 17 j 12:17	0° ∡ 7	
5	J						

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 44 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	ie year -5399 i	n astronomical co	unting style is the year	5400 BCE in historical c	counting style.	
conjunction	-4963 Jan 26 j 12:24	0° る 10'59	-1°08'26		-4959 Dec 21 j 10:59	0° ™	
minimum elong	-4963 Jan 26 j 12:49	0° る 11'45	1°08'42		-4958 Feb 13 j 10:27	0∘ ⊽	
	-4963 Jan 26 j 06:27	0° ろ		retrograde	-4958 Apr 12 j 07:25	16° ≏ 39'23	
	-4963 Mar 08 j 20:40	0° ≈		desc. node	-4958 Apr 15 j 21:27	16° ≏ 34'30	
max. Earth dist.	-4963 Mar 11 j 08:34	1° ≈ 45′08	2.48977 AU	opposition	-4958 May 12 j 18:12	11° ≏ 36′05	
morning rise	-4963 Mar 27 j 18:51	13° ≈ 09'39		greatest brilliancy	-4958 May 12 j 19:03	11° ≏ 35'31	
	-4963 Apr 21 j 15:18	0°) €		min. Earth dist.	-4958 May 14 j 02:41		0.37926 AU
,	-4963 Jun 06 j 17:30	0°Υ 22°Μ22154		direct	-4958 Jun 12 j 08:36	6° £ 24'51	
asc. node	-4963 Jul 12 j 18:37	22° Y 22'54			-4958 Aug 19 j 22:01	0°M⊾	
	-4963 Jul 25 j 10:48	0°¤ 8°0			-4958 Oct 07 j 19:20 -4958 Nov 22 j 11:29	0°る	
retrograde	-4963 Sep 16 j 21:53 -4963 Dec 09 j 02:38	0 H 27°H24'57			-4957 Jan 07 j 02:22	0°≈	
opposition	-4962 Jan 15 j 11:00	27 Ⅲ 24 37 19° Ⅲ 06'14	5°09'21		-4957 Feb 22 j 11:42	0 ∞ 0° ∺	
greatest brilliancy	-4962 Jan 16 j 11:57	18° Ⅱ 42'29	-1.6m	asc. node	-4957 Mar 04 j 06:58	6°) 16′24	
min. Earth dist.	-4962 Jan 21 j 15:38	16° Ⅱ 45'05	0.59639 AU	asc. node	-4957 Apr 10 j 13:45	0° Υ	
direct	-4962 Feb 25 j 02:13	9° Ⅱ 19'42	0.57057710	evening set	-4957 Apr 23 j 23:25	8° Υ 30'28	
	-4962 May 01 j 21:39	0.8e		evening sec	-4957 May 27 j 18:31	0°8	
	-4962 Jun 20 j 09:39	0°N		max. Earth dist.	-4957 Jun 02 j 17:04		2.66630 AU
desc. node	-4962 Jul 11 j 17:55	14° Ω 44'07			,		
	-4962 Aug 01 j 19:51	0° m)		conjunction	-4957 Jun 10 j 02:44	8° 8 31'50	0°49'40
	-4962 Sep 10 j 12:03	0∘ <u>⊽</u>		minimum elong	-4957 Jun 10 j 01:26	8° 8 29'44	0°49'49
	-4962 Oct 19 j 06:15	0° M			-4957 Jul 13 j 09:03	$\Pi^{\circ}0$	
	-4962 Nov 27 j 07:53	0° ∡ ¹		morning rise	-4957 Jul 25 j 12:16	7° Ⅱ 55′18	
	-4961 Jan 06 j 14:26	ರ°0			-4957 Aug 27 j 21:02	0 \circ \odot	
evening set	-4961 Jan 25 j 10:08	13° る 35'43			-4957 Oct 11 j 02:47	0 $^{\circ}$ Ω	
	-4961 Feb 17 j 15:59	0° ≈			-4957 Nov 23 j 06:11	0° ™	
					-4956 Jan 04 j 16:32	0∘ ত	
conjunction	-4961 Mar 21 j 23:04	22° ≈ 07'15			-4956 Feb 16 j 06:02	0° M	
minimum elong	-4961 Mar 22 j 00:44	22° ≈ 10′03	0°38'26	desc. node	-4956 Mar 02 j 22:35	10° ™ 47'56	
	-4961 Apr 02 j 17:14	0° ∀			-4956 Apr 01 j 05:13	0° ∡	
max. Earth dist.	-4961 Apr 14 j 20:06		2.59983 AU		-4956 Jun 03 j 08:41	0°₹	
morning rise	-4961 May 12 j 10:37	26°) €02'47		retrograde	-4956 Jun 20 j 23:11	2°る07'03	
,	-4961 May 18 j 13:51	0°Υ 7°Ω44107		i patra	-4956 Jul 08 j 02:36	30°₹ ⋌ ¹	0.44006.444
asc. node	-4961 May 30 j 15:30	7° ℃ 44'07		min. Earth dist.	-4956 Jul 18 j 07:48		0.44236 AU
	-4961 Jul 04 j 20:43	$\mathfrak{B}_{\circ 0}$		greatest brilliancy	-4956 Jul 24 j 16:28	24° ₹ 58'32 24° ₹ 25'45	
	-4961 Aug 22 j 11:21 -4961 Oct 12 j 10:28	0°©		opposition direct	-4956 Jul 26 j 07:38 -4956 Aug 27 j 08:01	24 x · 23 43 18° x ¹ 08'37	-0 10 20
	-4961 Dec 11 j 02:39	0° U		direct	-4956 Oct 14 j 00:55	18 × 08 37	
retrograde	-4960 Jan 29 j 06:03	11° Ω 41'57			-4956 Dec 11 j 05:49	0° ≈	
opposition	-4960 Mar 03 j 06:33	5°Ω00'13	4°36'42	asc. node	-4955 Jan 19 j 06:00	22°≈53'33	
greatest brilliancy	-4960 Mar 04 j 18:15	4°Ω30'12		use. Houe	-4955 Jan 31 j 01:49	0° \	
min. Earth dist.	-4960 Mar 11 j 19:26		0.47766 AU		-4955 Mar 21 j 05:47	0° Υ	
	-4960 Mar 18 j 21:09	30°Rூ			-4955 May 08 j 08:15	0°8	
direct	-4960 Apr 09 j 16:54	26°9548'55		evening set	-4955 May 31 j 11:09	14° 8 43'07	
	-4960 May 01 j 21:42	$0^{\circ}\Omega$		-	-4955 Jun 24 j 01:29	Π $\circ 0$	
desc. node	-4960 May 28 j 20:02	10° Ω 30′13		max. Earth dist.	-4955 Jun 26 j 13:56	1° Ⅱ 38'57	2.61917 AU
	-4960 Jul 02 j 01:30	0° m					
	-4960 Aug 14 j 23:12	0∘ ⊽		conjunction	-4955 Jul 17 j 13:03	15° Ⅱ 30'47	1°10'40
	-4960 Sep 24 j 21:27	0° M		minimum elong	-4955 Jul 17 j 12:38		1°10'55
	-4960 Nov 04 j 12:09	0° ∡ 7			-4955 Aug 08 j 00:24	0 \circ	
	-4960 Dec 16 j 00:47	0° る		morning rise	-4955 Sep 02 j 15:09	17°5541'00	
	-4959 Jan 28 j 02:50	0° ≈			-4955 Sep 20 j 02:25	0 $^{\circ}\Omega$	
	-4959 Mar 13 j 21:48	0°) {			-4955 Oct 31 j 12:41	0° m)	
evening set	-4959 Mar 14 j 02:48	0°) €08'13			-4955 Dec 10 j 17:38	0° ⊽	
asc. node	-4959 Apr 16 j 10:26	21°) 50'44 0° °		desc. node	-4954 Jan 18 j 22:36	29° Ω 41'14	
	-4959 Apr 29 j 02:17	υţ			-4954 Jan 19 j 08:31 -4954 Feb 28 j 07:23	0° ጤ 0° <i>ጃ</i>	
conjunction	-4959 May 02 j 21:13	2° Y 25'59	0°09'19		-4954 Apr 11 j 01:01	0° X ' ਨ°0	
minimum elong	-4959 May 02 j 21:13	2° Υ 25'24	0°09'18		-4954 May 27 j 21:43	0° ≈	
behind sun begin	-4959 May 02 j 04:29	1° Υ 59'09	5 07 10	retrograde	-4954 Aug 07 j 14:54	0 ∞ 25°≈20'01	
behind sun end	-4959 May 03 j 13:14	2° Υ '51'40		min. Earth dist.	-4954 Sep 09 j 08:21		0.56531 AU
max. Earth dist.	-4959 May 09 j 18:38	6° Υ 51'09	2.66021 AU	opposition	-4954 Sep 15 j 16:13	15° ≈ 39'05	
	-4959 Jun 15 j 01:03	0°8		greatest brilliancy	-4954 Sep 14 j 23:27	15°≈55'27	
morning rise	-4959 Jun 18 j 18:26	2° 8 22'16		direct	-4954 Oct 21 j 19:12	7° ≈ 26'32	
-	-4959 Aug 01 j 03:09	Π °0		asc. node	-4954 Dec 07 j 06:44	18° ≈ 08'44	
	-4959 Sep 17 j 01:37	0°®			-4953 Jan 02 j 20:12	0°) €	
	-4959 Nov 03 j 03:07	$0^{\circ}\Omega$			-4953 Feb 27 j 13:40	0° Y	

Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -4953 Apr 18 j 23:09 0°8 conjunction -4948 Jan 01 i 20:04 5°**х** 14'52 -1°04'07 -4953 Jun 05 j 11:15 $\mathbb{I}^{\circ 0}$ -4948 Jan 01 j 17:57 5°**х** 10'49 1°04'20 minimum elong -4953 Jul 11 j 01:06 23°II36'14 -4948 Feb 03 j 15:35 0°궁 evening set -4953 Jul 20 j 10:13 -4948 Feb 19 j 12:30 11°る39'29 0.00 max. Earth dist. 2.43787 AU 5°901'26 max. Earth dist. -4953 Jul 27 j 17:10 -4948 Mar 06 j 06:07 22°る59'39 2.52329 AU morning rise -4948 Mar 16 j 03:13 0°≈ 0°**)**€ conjunction -4953 Aug 30 j 05:40 28°**©**42'41 0°58'32 -4948 Apr 28 j 21:50 $0^{\circ}\Upsilon$ -4953 Aug 30 j 07:24 minimum elong 28°**9**45'48 0°58'46 -4948 Jun 14 j 07:14 -4948 Jul 29 j 09:44 27°Υ14'16 -4953 Sep 01 j 00:32 0° Ω asc. node -4953 Oct 11 j 15:51 0° m -4948 Aug 03 j 05:06 0°8 morning rise -4953 Oct 23 j 00:22 8° m 35'25 -4948 Oct 01 j 00:59 $0^{\circ}\Pi$ 13°**Ⅱ**07'47 -4953 Nov 19 j 22:27 0∘**⊽** retrograde -4948 Nov 22 j 23:16 -4948 Dec 31 j 04:55 desc. node -4953 Dec 06 j 19:46 13°**♀**05'12 opposition 4°**Ⅲ**22'49 4°40'46 -4953 Dec 28 j 14:00 0°M greatest brilliancy -4948 Dec 31 j 21:28 4°**Ⅱ**06'44 -1.5m -4952 Feb 05 j 10:55 0°**√** min. Earth dist. -4947 Jan 04 j 23:07 2°**Ⅲ**31'57 0.62953 AU -4952 Mar 16 j 12:04 0°ರ -4947 Jan 11 j 18:54 30°R₩ -4952 Apr 27 j 22:16 0°**≈** direct -4947 Feb 10 j 06:14 24°825'02 -4952 Jun 13 j 22:12 0°**)**€ -4947 Mar 14 j 00:54 $\Pi^{\circ}0$ -4952 Aug 16 j 07:54 $0^{\circ}\Upsilon$ -4947 May 15 j 00:56 0ಂತಾ retrograde -4952 Sep 13 j 04:48 4°Υ31'24 -4947 Jun 30 j 04:34 $0^{\circ}\Omega$ -4952 Oct 09 j 00:50 30°**₹** desc. node -4947 Jul 28 j 12:05 20°**Ω**15'16 min. Earth dist. -4952 Oct 20 j 10:51 25°**)**(41'54 0.64772 AU -4947 Aug 10 j 15:21 0° m -4952 Oct 23 i 05:28 24°\(\)34'52 -0°02'38 -4947 Sep 18 j 20:52 0∘**⊽** opposition greatest brilliancy -4952 Oct 23 i 05:27 24°**)** 34'52 -1.5m -4947 Oct 27 i 07:41 0°M asc. node -4952 Oct 24 j 08:30 24° **)** (07'43 -4947 Dec 05 j 02:34 0°×7 direct -4952 Dec 01 j 08:06 15°**)** 15'38 -4946 Jan 02 j 16:54 21°×734'24 evening set -4951 Jan 27 j 08:00 $0^{\circ}\Upsilon$ -4946 Jan 14 j 02:26 0°정 -4951 Mar 26 j 23:26 0°8 -4946 Feb 24 j 21:42 0°≈ $0^{\circ}II$ -4951 May 15 j 18:33 -4951 Jun 30 j 09:42 0000 -4946 Mar 02 j 13:47 3°≈57'31 -0°54'22 conjunction -4951 Aug 11 j 23:48 $0^{\circ}\Omega$ -4946 Mar 02 j 15:50 4°≈01'05 0°54'34 minimum elong -4951 Aug 27 j 05:34 -4946 Apr 03 j 06:50 evening set 11°**Ω**10′26 max. Earth dist. 25°≈38'58 2.56184 AU -4951 Sep 20 j 20:02 -4946 Apr 09 j 18:35 29°**Ω**38'44 2.40151 AU 0°**)**€ max. Earth dist. -4951 Sep 21 j 07:13 -4946 Apr 25 j 23:50 10°**)**45′16 0° m morning rise 0° Υ -4951 Oct 23 j 16:08 -4946 May 25 j 14:55 desc. node 24° m 57'28 -4946 Jun 16 j 07:19 13°**Y**47'35 asc. node -4951 Oct 24 j 09:23 25° m 31'04 -0°00'32 -4946 Jul 12 j 06:20 conjunction 0° 8 -4951 Oct 24 j 09:18 25° m/30'55 0°00'30 -4946 Aug 31 j 01:17 $0^{\circ}\Pi$ minimum elong -4951 Oct 23 j 07:11 24° Mp 40'01 -4946 Oct 24 j 21:36 0ಂತಾ behind sun begin -4951 Oct 25 j 11:26 26° m 21'50 retrograde -4945 Jan 07 j 04:32 23°901'17 behind sun end -4951 Oct 30 j 03:10 0∘**⊽** -4945 Feb 11 j 17:47 15°935'37 5°15'31 opposition -4951 Dec 07 j 08:25 0°M -4945 Feb 13 j 05:25 greatest brilliancy 15°903'38 -2.0m -4951 Dec 29 j 00:25 16°M57'14 min. Earth dist. -4945 Feb 19 j 19:19 12°542'52 0.52853 AU morning rise -4950 Jan 14 j 20:22 0°×7 -4945 Mar 22 j 21:36 6°532'39 direct -4950 Feb 23 j 11:33 0°る -4945 May 30 j 13:46 0° Ω -4950 Apr 06 i 01:16 0°≈ desc. node -4945 Jun 15 j 11:56 9°Ω30'36 0°**₩** -4950 May 20 j 09:43 -4945 Jul 16 i 08:31 0° m -4950 Jul 08 i 01:18 $0^{\circ}\Upsilon$ -4945 Aug 26 i 15:54 0∘**⊽** -4950 Sep 06 i 18:30 0°8 -4945 Oct 05 i 08:45 0°M -4950 Sep 11 j 10:13 1°840'32 -4945 Nov 14 i 03:33 0°×7 asc node retrograde -4950 Oct 18 j 00:13 8°843'56 -4945 Dec 25 j 00:43 0°궁 -4950 Nov 24 j 15:21 30°RY -4944 Feb 05 j 14:20 0°**≈** -4950 Nov 26 j 15:59 29°**Y**11'27 2°41'23 -4944 Feb 25 j 10:26 13°≈32'56 opposition evening set greatest brilliancy -4950 Nov 26 j 16:47 29°**Y**10′39 -1.3m -4944 Mar 21 j 00:17 0°) min. Earth dist. -4950 Nov 27 j 15:19 28°**Υ**48'07 0.67027 AU 19°**Y**17'38 direct -4949 Jan 06 j 11:00 -4944 Apr 17 j 00:57 17°**)** 44'12 -0°09'12 conjunction -4949 Feb 22 j 09:50 0°8 -4944 Apr 17 j 01:21 17°**)** 44′50 0°09'17 minimum elong -4949 Apr 22 j 22:55 $0^{\circ}\Pi$ -4944 Apr 16 j 08:25 17°**米**17'19 behind sun begin -4949 Jun 09 j 22:06 0ಂತಾ -4944 Apr 17 j 18:17 18°**升** 12′22 behind sun end -4949 Jul 23 j 05:03 $0^{\circ}\Omega$ 26°**∺**13'14 2.64275 AU max. Earth dist. -4944 Apr 30 j 03:07 -4949 Sep 01 j 15:38 0° m asc. node -4944 May 03 j 03:55 28°**)** 10′42 $0^{\circ}\Upsilon$ desc. node -4949 Sep 10 j 13:56 6° Mp 49'34 -4944 May 05 j 23:47 18° Y 46'40 -4949 Oct 10 j 10:00 0∘**⊽** morning rise -4944 Jun 04 j 07:46 evening set -4949 Oct 28 j 12:03 14° 2 12'54 -4944 Jun 21 j 23:33 0°8 -4949 Nov 17 j 13:07 0°M -4944 Aug 08 j 11:37 $0^{\circ}\Pi$ -4949 Dec 26 j 00:12 0°×7 -4944 Sep 25 j 11:20 0ಂತಾ

-4944 Nov 13 j 22:01

 $0^{\circ}\Omega$

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 46 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -4943 Jan 07 j 23:27 0° m -4938 Jan 15 i 03:13 0°) -4943 Mar 11 j 16:28 -4938 Mar 08 j 04:20 $0^{\circ}\Upsilon$ 18° m 13'40 retrograde 12° Mp 46'57 -4943 Apr 12 j 01:29 -4938 Apr 26 j 10:17 0°8 1°27'37 opposition -4938 Jun 12 j 13:07 12° Mp 39'36 $0^{\circ}\Pi$ greatest brilliancy -4943 Apr 12 j 11:37 -2.8m-4938 Jun 24 j 16:25 -4943 Apr 18 j 00:24 7°**I**57'47 min. Earth dist. 11°Mp03'49 0.40417 AU evening set desc. node -4943 May 02 j 13:58 7° m 39'00 max. Earth dist. -4938 Jul 14 j 07:42 21°**Ⅱ**04'06 2.56615 AU -4938 Jul 27 j 11:02 direct -4943 May 15 j 06:43 6° Mp 33'28 0ಂಲ -4943 Jul 21 j 04:55 0∘ଫ -4943 Sep 06 j 06:17 0°M conjunction -4938 Aug 12 j 03:51 10°950'59 1°08'17 -4943 Oct 19 j 17:18 0°**∡**¹ minimum elong -4938 Aug 12 j 04:44 10°**©**52'32 1°08'33 -4943 Dec 02 j 00:52 0°궁 -4938 Sep 08 j 05:02 0° Ω -4938 Oct 01 j 12:40 -4942 Jan 15 j 07:56 0°≈ morning rise 16°**Ω**57'42 -4942 Mar 01 j 22:17 0°**)**€ -4938 Oct 19 j 02:22 0° M asc. node -4942 Mar 20 j 23:49 12°**升** 19'28 -4938 Nov 27 j 15:56 0∘**⊽** evening set -4942 Apr 08 j 14:37 24°\ 16'26 desc. node -4938 Dec 23 j 15:01 19°**♀**59'24 -4942 Apr 17 j 13:34 $0^{\circ}\Upsilon$ -4937 Jan 05 j 14:14 0°M max. Earth dist. -4942 May 24 j 12:42 23°**Y**34′22 2.67033 AU -4937 Feb 13 j 17:43 0°**⊼** -4937 Mar 26 j 03:53 0°정 conjunction -4942 May 26 j 11:07 24° Y 48'22 0°35'41 -4937 May 08 j 10:18 0°≈ minimum elong -4942 May 26 j 09:58 24° Y 46'32 0°35'46 -4937 Jun 27 j 12:52 0°) -4942 Jun 03 j 14:24 0°8 retrograde -4937 Aug 31 j 05:42 20°¥25′10 -4942 Jul 11 i 02:33 24°803'05 min. Earth dist. -4937 Oct 05 i 21:14 12°**)** € 09'11 0.62221 AU morning rise -4942 Jul 20 i 07:37 $\mathbb{I}^{\circ 0}$ opposition -4937 Oct 10 i 02:26 10°¥27'55 -1°16'21 -4942 Sep 04 i 05:41 0000 greatest brilliancy -4937 Oct 09 i 22:15 10°**)** 32′07 -1.6m -4942 Oct 19 j 06:40 $0^{\circ}\Omega$ asc. node -4937 Nov 10 j 22:48 1°**)** 45'22 -4942 Dec 02 j 16:35 0°m -4937 Nov 17 j 05:09 1°\ 30'15 direct -4941 Jan 16 j 02:24 0∘**⊽** -4936 Feb 10 j 21:25 $0^{\circ}\Upsilon$ -4941 Mar 03 j 06:45 0°M -4936 Apr 04 j 18:05 0°8 -4941 Mar 20 j 15:51 -4936 May 23 j 09:21 10°M22'43 0°Π desc node -4941 May 01 j 06:05 -4936 Jul 07 j 16:19 000 0°×7 -4941 May 28 j 16:38 -4936 Aug 07 j 01:44 4°**х** 50′35 21°9514'45 retrograde evening set min. Earth dist. -4936 Aug 19 j 05:48 -4941 Jun 24 j 10:05 0°**х** 22′21 0.39985 AU $0^{\circ}\Omega$ -4941 Jun 25 j 16:49 max. Earth dist. -4936 Aug 23 j 00:41 2°**Ω**45'09 2.44873 AU 30°RM -4941 Jun 29 j 07:39 -4936 Sep 28 j 15:41 greatest brilliancy 28°M55'53 -2.7m 0° m -4941 Jun 30 j 15:19 opposition 28°M32'28 -6°04'25 -4941 Jul 30 j 23:33 -4936 Sep 30 j 10:26 direct 23°M07'25 conjunction 1° Mp 21'06 0°27'58 -4941 Sep 03 j 15:14 0°**⊼** minimum elong -4936 Sep 30 j 12:12 1° Mp 24'27 0°28'06 -4941 Nov 03 j 03:29 0°ರ -4936 Nov 06 j 15:04 0∘**⊽** -4941 Dec 23 j 02:23 0°**≈** desc. node -4936 Nov 09 j 12:00 2°**£**14'17 -4940 Feb 05 j 21:25 27°≈44'12 -4936 Nov 30 j 10:58 18°**♀**37'41 asc. node morning rise -4940 Feb 09 j 12:45 0°**)**€ -4936 Dec 14 j 23:21 0°M -4940 Mar 28 j 15:48 $0^{\circ}\Upsilon$ -4935 Jan 22 j 13:19 0°**∡**7 -4940 May 15 j 07:35 0°8 -4935 Mar 03 j 06:15 0°정 -4940 May 16 j 11:25 0°**8**44'12 -4935 Apr 13 j 23:48 evening set 0°≈ -4940 Jun 16 j 11:35 20°836'18 2.64381 AU -4935 May 28 j 21:41 0°) max. Earth dist. -4935 Jul 18 j 18:09 $0^{\circ}\Upsilon$ -4940 Jun 30 j 22:31 $\mathbb{I}^{\circ 0}$ 25°**Y**35′28 asc. node -4935 Sep 28 i 00:00 -4940 Jul 02 i 06:26 conjunction 0°II52'09 1°05'34 retrograde -4935 Oct 04 i 12:08 25°Y51'33 minimum elong -4940 Jul 02 i 05:27 0°II50'33 1°05'48 opposition -4935 Nov 13 j 10:41 16°**Y**′06′36 1°42'36 -4940 Aug 15 j 01:04 ೧೦೦ -4935 Nov 13 i 09:02 16°**Y**08′15 -1.4m greatest brilliancy -4940 Aug 17 j 06:11 1°930'03 min. Earth dist. -4935 Nov 12 j 22:39 16°**℃**18'41 0.66888 AU morning rise -4940 Sep 27 j 11:43 $0^{\circ}\Omega$ direct -4935 Dec 23 j 17:49 6°**Y**23′02 -4940 Nov 08 j 10:18 0°m -4934 Mar 09 j 13:12 0°8 -4940 Dec 19 j 06:17 0∘∙თ -4934 May 02 j 04:08 $0^{\circ}II$ -4939 Jan 28 j 14:28 0°M -4934 Jun 17 j 21:54 000 -4939 Feb 04 j 15:27 desc. node 5°M13'17 -4934 Jul 30 j 20:06 $0^{\circ}\Omega$ -4939 Mar 10 j 12:30 0°×7 -4934 Sep 09 j 04:24 0° m -4939 Apr 23 j 04:48 0°る -4934 Sep 27 j 07:46 13° m 55'55 desc. node -4939 Jun 17 j 22:35 -4934 Oct 02 j 09:38 17° m 52'13 0°≈ evening set -4939 Jul 21 j 19:54 0∘**⊽** retrograde 7°≈09'06 -4934 Oct 17 j 22:44 0°M min. Earth dist. -4939 Aug 21 j 10:49 0°≈45'07 0.51948 AU -4934 Nov 25 j 01:59 -4939 Aug 23 j 11:24 30°Ŗる opposition -4939 Aug 28 j 21:38 27°る57'12 -4°42'25 conjunction -4934 Dec 05 j 06:50 8°M00'53 -0°46'12 greatest brilliancy -4939 Aug 27 j 18:11 28°る23'02 -2.0m minimum elong -4934 Dec 05 j 03:30 7°**ጤ**54'21 0°46'18 direct -4939 Oct 02 j 11:44 20°る23'17 -4933 Jan 02 j 12:30 0°**∡**7 max. Earth dist. -4933 Jan 13 j 14:10 8° ₹30'05 2.39037 AU -4939 Nov 14 j 16:33 0°≈ -4939 Dec 23 j 21:35 -4933 Feb 10 j 14:50 29°**х** 38′06 asc. node 18°≈05'29 morning rise

Planetary Phenomena of Mars from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 47 Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style. -4933 Feb 11 i 02:38 0°궁 -4928 Jun 20 j 19:57 0° m -4933 Mar 24 j 13:15 -4928 Aug 07 j 06:05 0∘**⊽** 0°≈≈ -4933 May 07 j 09:52 0°**)**€ -4928 Sep 18 j 10:32 0°M -4933 Jun 23 j 07:30 -4928 Oct 29 j 18:01 $0^{\circ}\Upsilon$ 0°×7 0°8 -4928 Dec 10 j 18:06 0°궁 -4933 Aug 14 j 05:28 asc. node -4933 Aug 16 j 01:10 0°**8**57'55 -4927 Jan 23 j 03:58 0°22 0°) retrograde -4933 Nov 09 j 00:41 29°**8**37'37 -4927 Mar 09 j 04:13 9°\ 26'29 opposition -4933 Dec 17 j 22:55 20°**8**31'03 4°00'57 evening set -4927 Mar 23 j 15:10 greatest brilliancy -4933 Dec 18 j 07:59 20°**8**22'08 -1.4m asc. node -4927 Apr 06 j 16:17 18°**∺**32'34 min. Earth dist. -4933 Dec 21 j 05:41 19°**8**13'27 0.65302 AU -4927 Apr 24 j 11:25 $0^{\circ}\Upsilon$ direct -4932 Jan 28 j 02:38 10°**8**30'13 -4927 May 11 j 14:13 10°**Ƴ**57'31 -4932 Apr 02 j 20:47 $0^{\circ}\Pi$ conjunction 0°19'28 -4927 May 11 j 13:30 -4932 May 25 j 09:43 0ಂತಾ minimum elong 10°**Y**56′22 0°19'29 -4932 Jul 08 j 23:16 $0^{\circ}\Omega$ max. Earth dist. -4927 May 15 j 05:58 13°**Y**17'42 2.66617 AU desc. node -4932 Aug 14 j 05:09 26°**Ω**29'38 -4927 Jun 10 j 10:22 0°8 -4932 Aug 18 j 20:51 0° m morning rise -4927 Jun 26 j 21:52 10°830'52 -4932 Sep 26 j 20:05 0∘**⊽** -4927 Jul 27 j 08:41 $0^{\circ}\Pi$ -4932 Nov 04 j 02:25 0°M -4927 Sep 11 j 21:04 0ಂತಾ $0^{\circ}\Omega$ evening set -4932 Dec 08 j 15:17 26°M52'26 -4927 Oct 28 j 01:38 -4932 Dec 12 j 16:51 0°×7 -4927 Dec 13 j 12:43 0° m -4931 Jan 21 j 12:07 0°궁 -4926 Jan 31 j 00:36 0∘**⊽** -4926 Apr 03 i 00:52 0°M -4931 Feb 08 i 22:05 13°る27'18 -1°05'36 -4926 Apr 06 i 08:00 0°M57'50 conjunction desc. node minimum elong -4931 Feb 08 i 23:30 13°る29'54 1°05'52 retrograde -4926 Apr 30 i 01:18 4°M26'19 -4931 Mar 04 i 03:02 0°≈ -4926 May 27 j 22:49 30°R<u>₽</u> -4931 Mar 20 j 15:27 11°≈30'01 2.51714 AU -4926 May 29 j 04:19 29°**△**40'15 0.37798 AU max. Earth dist. min. Earth dist. -4931 Apr 07 j 22:41 -4926 May 30 j 22:13 29° **12**'03 -3°59'21 -3°59'21 23°259'28 morning rise opposition -4931 Apr 16 j 21:18 0°**₩** greatest brilliancy -4926 May 30 j 13:43 29°**Ω**17'47 -2.9m -4931 Jun 01 j 19:44 $0^{\circ}\Upsilon$ -4926 Jun 29 j 22:42 direct 24° 211'38 19° Y 35'20 -4931 Jul 03 j 00:16 -4926 Jul 30 j 23:31 0°M asc. node -4926 Sep 28 j 15:54 -4931 Jul 20 j 00:41 0°8 0°×7 $0^{\circ}II$ -4931 Sep 09 j 16:54 -4926 Nov 15 j 18:21 0°궁 -4931 Nov 13 j 09:46 0°9 -4925 Jan 01 j 11:29 0°≈ -4931 Dec 19 j 01:13 -4925 Feb 17 j 10:46 0°**)**€ retrograde 6°934'09 -4930 Jan 20 j 21:00 30°R∏ -4925 Feb 22 j 12:54 asc. node 3°**)** 13'53 $0^{\circ}\Upsilon$ 28°**Ⅲ**32'20 5°18'05 -4925 Apr 05 j 20:10 opposition -4930 Jan 24 j 20:12 16°**Y**55'31 greatest brilliancy -4930 Jan 26 j 01:34 28°**I**104'51 -1.7m evening set -4925 May 02 j 14:22 min. Earth dist. -4930 Jan 31 j 18:50 25°**П**56'58 0.57444 AU -4925 May 23 j 04:21 0°8 direct -4930 Mar 06 j 02:34 18°**Ⅲ**57'11 max. Earth dist. -4925 Jun 08 j 03:28 10°**8**12'07 2.66062 AU -4930 Apr 20 j 07:58 0ಂತಾ -4930 Jun 13 j 11:14 $0^{\circ}\Omega$ conjunction -4925 Jun 18 j 11:44 16°851'01 0°56'28 -4930 Jul 02 j 05:05 12°**Ω**30′06 -4925 Jun 18 j 10:27 16°**8**48'58 0°56'39 desc. node minimum elong -4930 Jul 26 j 22:16 -4925 Jul 08 j 18:52 $0^{\circ}\Pi$ 0° m -4930 Sep 05 j 01:09 -4925 Aug 02 j 22:38 16°**Ⅲ**31'33 0∘**⊽** morning rise -4930 Oct 14 j 01:32 0°M -4925 Aug 23 j 03:21 0ಂತಾ -4930 Nov 22 i 07:31 0°×7 -4925 Oct 06 i 01:58 $0^{\circ}\Omega$ -4929 Jan 01 i 17:42 0°정 -4925 Nov 17 j 17:50 0° m 25°る19'08 -4929 Feb 06 i 05:00 -4925 Dec 29 i 11:52 0∘**⊽** evening set -4929 Feb 12 j 22:00 0°≈ -4924 Feb 09 i 00:17 0°M -4929 Mar 29 j 01:07 0°**₩** -4924 Feb 22 i 10:00 9°M34'22 desc node -4924 Mar 22 j 19:37 0°×7 -4929 Apr 01 j 04:25 2°\columbf{05'09} -0°27'52 -4924 May 10 j 21:52 0°궁 conjunction -4929 Apr 01 j 05:39 2°\mathbf{H}07'12 0°28'00 -4924 Jul 02 j 23:00 16°**ප**05'46 minimum elong retrograde -4924 Jul 31 j 09:31 max. Earth dist. -4929 Apr 21 j 02:53 15°**升**13'10 2.61731 AU min. Earth dist. 10°る35'18 0.46933 AU $0^{\circ}\Upsilon$ -4929 May 13 j 21:39 greatest brilliancy -4924 Aug 06 j 22:24 8°る17'45 -2.3m -4929 May 20 j 20:17 4°Υ27'45 asc. node -4924 Aug 08 j 11:19 7°る45'08 -5°51'43 opposition -4929 May 21 j 08:46 4°**Y**47'47 direct -4924 Sep 10 j 09:33 0°る58'47 morning rise -4929 Jun 30 j 00:52 0°8 -4924 Dec 03 j 01:21 0°≈ $0^{\circ}\Pi$ -4923 Jan 09 j 11:32 20°≈51'21 -4929 Aug 17 j 03:35 asc. node -4929 Oct 05 j 17:31 0ಂತಾ -4923 Jan 25 j 03:49 0°**)**€ $0^{\circ}\Upsilon$ $0^{\circ}\Omega$ -4929 Nov 28 j 17:37 -4923 Mar 16 j 03:33 -4928 Feb 12 j 12:37 24°**Ω**07'33 -4923 May 03 j 14:49 0°8 retrograde evening set opposition -4928 Mar 16 j 12:13 17°**Ω**53'14 3°49'11 -4923 Jun 09 j 04:01 23°**8**18'04 greatest brilliancy -4928 Mar 17 j 18:35 17°**Ω**28'51 -2.4m -4923 Jun 19 j 11:24 $0^{\circ}\Pi$ min. Earth dist. -4928 Mar 24 j 16:42 15°**Ω**16'13 0.44914 AU max. Earth dist. -4923 Jul 02 j 18:16 8°**Д**43'54 2.60229 AU 10°**Ω**20′13 direct -4928 Apr 21 j 15:32

-4928 May 19 j 05:37

desc. node

15°**Ω**12'14

conjunction

-4923 Jul 26 j 13:59 24° **1**40'14 1°11'25

Planetary Pheno			•	/ /		, ,	
	ical year style is used: Th	ie year -5399 i 24° ∏ 40'15		anting style is the year		ounting style.	
minimum elong	-4923 Jul 26 j 14:00	24 п 40 13	1 1141	asc. node	-4918 Aug 26 j 18:10 -4918 Sep 01 j 16:09	2° 8 38'58	
	-4923 Aug 03 j 10:04						
morning rise	-4923 Sep 12 j 14:03	27° © 59'59		retrograde	-4918 Oct 25 j 21:32	16° 8 34'37 7° 8 10'26	2012141
	-4923 Sep 15 j 09:26	0° N		opposition	-4918 Dec 04 j 08:32	_	3°12'41
	-4923 Oct 26 j 14:59	0° m)		greatest brilliancy	-4918 Dec 04 j 11:44	7° 8 07'15	
	-4923 Dec 05 j 14:08	0∘ ⊽		min. Earth dist.	-4918 Dec 06 j 03:41	6° 8 27'30	0.66676 AU
desc. node	-4922 Jan 09 j 08:41	26° △ 30'35			-4918 Dec 24 j 15:26	30° ₹ Υ	
	-4922 Jan 13 j 22:23	0° ™		direct	-4917 Jan 14 j 08:29	27° Y 12'51	
	-4922 Feb 22 j 12:31	0° ∡ 7			-4917 Feb 05 j 15:03	0°8	
	-4922 Apr 04 j 14:48	0°ප			-4917 Apr 16 j 06:43	0°Щ	
	-4922 May 19 j 13:21	0° ≈			-4917 Jun 04 j 11:04	0ංම	
	-4922 Jul 18 j 12:28	0° ∀			-4917 Jul 18 j 03:45	0 $^{\circ}$ Ω	
retrograde	-4922 Aug 16 j 12:26	5°) €08'54			-4917 Aug 27 j 18:06	0° m)	
	-4922 Sep 12 j 18:27	30° R ≈		desc. node	-4917 Aug 31 j 23:01	3° Mp 11'57	
min. Earth dist.	-4922 Sep 19 j 08:00		0.58760 AU		-4917 Oct 05 j 14:12	0∘ ⊽	
opposition	-4922 Sep 24 j 22:48	25° ≈ 19'13		evening set	-4917 Nov 12 j 19:09	0°M01'38	
greatest brilliancy	-4922 Sep 24 j 11:21	25° ≈ 30'30	-1.7m		-4917 Nov 12 j 18:19	0° M ₊	
direct	-4922 Oct 31 j 20:26	16° ≈ 48'52			-4917 Dec 21 j 06:01	0° ∡ ¹	
asc. node	-4922 Nov 27 j 12:42	20° ≈ 46′07					
	-4922 Dec 23 j 15:15	0° ∀		conjunction	-4916 Jan 16 j 15:07	20° ≯ 05'07	-1°08'08
	-4921 Feb 21 j 10:46	0 ° $\mathbf{\Upsilon}$		minimum elong	-4916 Jan 16 j 14:29	20° х 03′55	1°08'22
	-4921 Apr 13 j 20:14	0°8			-4916 Jan 29 j 21:54	0°ප	
	-4921 May 31 j 17:23	Π $^{\circ}0$		max. Earth dist.	-4916 Mar 03 j 10:42	24° පි 21'53	2.46669 AU
	-4921 Jul 15 j 19:23	0°€			-4916 Mar 11 j 09:34	0° ≈	
evening set	-4921 Jul 20 j 19:52	3°527'01		morning rise	-4916 Mar 18 j 19:06	5°≈11'33	
max. Earth dist.	-4921 Aug 05 j 07:46	14°9514'42	2.49757 AU		-4916 Apr 24 j 02:30	0° ∀	
	-4921 Aug 27 j 09:50	$0^{\circ}\Omega$			-4916 Jun 09 j 05:53	$0^{\circ}\Upsilon$	
	e j			asc. node	-4916 Jul 19 j 15:50	24° Ƴ 51'40	
conjunction	-4921 Sep 10 j 06:19	10° Ω 06'00	0°49'38		-4916 Jul 28 j 08:15	0°8	
minimum elong	-4921 Sep 10 j 08:20	10° Ω 09'43	0°49'49		-4916 Sep 21 j 10:03	0°II	
8	-4921 Oct 06 j 23:17	0° m)		retrograde	-4916 Dec 01 j 23:45	21° I I36'59	
morning rise	-4921 Nov 05 j 09:26	22° m/28'14		opposition	-4915 Jan 08 j 18:48	13° Ⅱ 05'48	4°58'33
morning rise	-4921 Nov 15 j 03:09	0∘ ⊽		greatest brilliancy	-4915 Jan 09 j 15:58		-1.6m
desc. node	-4921 Nov 27 j 05:48	9° ≏ 24'25		min. Earth dist.	-4915 Jan 14 j 08:42	10° I 57′22	0.61240 AU
dose. Hode	-4921 Dec 23 j 15:45	0° M		direct	-4915 Feb 18 j 16:12	3° Ⅱ 13'02	0.012.0110
	-4920 Jan 31 j 09:22	0° × 7		direct	-4915 May 07 j 08:07	0°9	
	-4920 Mar 11 j 06:18	0° ਠ			-4915 Jun 24 j 04:43	0°N	
	-4920 Apr 22 j 07:57	0° ≈		desc. node	-4915 Jul 18 j 21:40	17° Ω 20'35	
	-4920 Jun 07 j 06:25	0°) €		desc. node	-4915 Aug 05 j 04:29	0° m)	
	-4920 Aug 01 j 23:52	0°Υ			-4915 Sep 13 j 15:59	0∘ ⊽	
retrograde	-4920 Sep 21 j 00:35	12° Υ '42'41			-4915 Oct 22 j 06:35	0° ™	
asc. node	-4920 Oct 14 j 14:59	8° Υ 57'13			-4915 Nov 30 j 04:20	0° ⊼	
min. Earth dist.	-4920 Oct 14 j 14:39	3° Υ 36'45	0.65784 AU		-4914 Jan 09 j 06:50	0° ਠ	
opposition	-4920 Oct 29 j 02:43	2° Υ 49'10	0°37'43	evening set	-4914 Jan 15 j 21:40	0 0 4° 3 49'57	
* *	-	2° Υ 50'33	-1.4m	evening set	•	4 04937 0°≈	
greatest brilliancy	-4920 Oct 31 j 00:39		-1.4111		-4914 Feb 20 j 04:19	0 ≈	
T	-4920 Nov 07 j 05:59	30° ₹ ₩			4014 M 12:20 50	1.40 5011.2	0045120
direct	-4920 Dec 09 j 16:28	23° ¥ 20'08 0° Ƴ		conjunction	-4914 Mar 13 j 20:50	14°≈59'13	
	-4919 Jan 14 j 17:19			minimum elong	-4914 Mar 13 j 22:45	15°≈02'29	0°45'39
	-4919 Mar 20 j 16:11	0°8		en al en a	-4914 Apr 05 j 02:18	0° \	2 50200 111
	-4919 May 10 j 13:24	0°II		max. Earth dist.	-4914 Apr 10 j 05:24	3° ¥ 25′03	2.58388 AU
	-4919 Jun 25 j 13:26	0° ©		morning rise	-4914 May 05 j 13:33	20°) €04'50	
	-4919 Aug 07 j 06:51	0°Ω		_	-4914 May 20 j 21:34	0° Υ	
evening set	-4919 Sep 08 j 14:13	23° Ω 54'54		asc. node	-4914 Jun 06 j 13:15	10° Ƴ 38'56	
	-4919 Sep 16 j 14:54	0° ™			-4914 Jul 07 j 06:58	0° 8	
desc. node	-4919 Oct 14 j 02:25	21°Mp 09'36			-4914 Aug 25 j 07:34	0°II	
max. Earth dist.	-4919 Oct 17 j 20:07	24° Mp 04'14	2.38232 AU		-4914 Oct 16 j 13:38	0ංම	
	-4919 Oct 25 j 10:20	0∘ ⊽			-4914 Dec 24 j 06:54	0 $^{\circ}$ Ω	
				retrograde	-4913 Jan 19 j 05:46	3° Ω 42′26	
conjunction	-4919 Nov 07 j 23:07	10° ≏ 36'52			-4913 Feb 12 j 17:00	30°R∽	
minimum elong	-4919 Nov 07 j 21:34	10° ≏ 33'50	0°18'00	opposition	-4913 Feb 22 j 23:37	26°940'07	4°58'31
	-4919 Dec 02 j 14:35	0° M		greatest brilliancy	-4913 Feb 24 j 12:26	26°508'08	-2.1m
	-4918 Jan 10 j 01:14	0° ∡ ¹		min. Earth dist.	-4913 Mar 03 j 10:34	23°5944'42	0.50085 AU
morning rise	-4918 Jan 14 j 04:08	3° ҂ 10′31		direct	-4913 Apr 02 j 07:21	18°902'41	
	-4918 Feb 18 j 14:58	5°0			-4913 May 18 j 03:14	$0^{\circ}\Omega$	
	-4918 Apr 01 j 02:08	0° ≈		desc. node	-4913 Jun 05 j 23:30	9° Ω 40'59	
	-4918 May 15 j 03:55	0° ∀			-4913 Jul 08 j 18:36	0° m y	
	-4918 May 15 j 03:55 -4918 Jul 01 j 22:39	0° ℋ 0° Ƴ			-4913 Jul 08 j 18:36 -4913 Aug 20 j 07:15	0ം ट 0ംൂൂ	

•	nical year style is used: Th		•	/ ·		, ,	C 49
Attention, astronom	-4913 Sep 29 j 14:25	0°M	in astronomicai co	minimum elong	-4908 Jul 10 j 22:01	9° ∏ 34'20	1°00'18
	-4913 Nov 08 j 18:25	0° ⊼ ¹		minimum clong	-4908 Aug 10 j 09:46	9 <u>п</u> 34 20	1 09 18
	•	0°る		marning rise			
	-4913 Dec 19 j 22:29			morning rise	-4908 Aug 26 j 10:55	10°958'57	
	-4912 Jan 31 j 17:27	0° ≈			-4908 Sep 22 j 16:29 -4908 Nov 03 j 08:44	0° Ω	
evening set	-4912 Mar 06 j 17:16	23°≈38'54			3	0° m)	
1	-4912 Mar 16 j 07:07	0°) {			-4908 Dec 13 j 20:18	0∘ 亚	
asc. node	-4912 Apr 23 j 08:14	24°) € 50'06			-4907 Jan 22 j 18:11	0°M	
:	4012 A 26 : 05:25	269W 41150	0001141	desc. node	-4907 Jan 26 j 02:38	2°M31'11	
conjunction	-4912 Apr 26 j 05:35 -4912 Apr 26 j 05:28	26° ¥ 41'59	0°01'41 0°01'37		-4907 Mar 04 j 00:58 -4907 Apr 15 j 09:00	⋋ °0 る。	
minimum elong behind sun begin	-4912 Apr 25 j 09:23	26°) 41'49 26°) 09'26	0 0137		-4907 Apr 13 j 09:00 -4907 Jun 03 j 08:11	0°≈	
behind sun begin		26 X 09 26 27° X 14'11		ratra ara da	,	0 ≈ 18°≈13'26	
bening sun end	-4912 Apr 27 j 01:33 -4912 May 01 j 08:29	27 χ 14 11 0° Υ		retrograde min. Earth dist.	-4907 Jul 31 j 14:49 -4907 Sep 01 j 10:04	18 ≈13 26 11°≈22'10	0.54548 AU
max. Earth dist.		2° Υ 51'54	2.65351 AU		-4907 Sep 07 j 10:04	9°≈03'43	
	-4912 May 05 j 19:24	2 γ 31 34 27° Υ 03'08	2.03331 AU	greatest brilliancy	1 3	9 ≈03 43 8°≈43'13	
morning rise	-4912 Jun 12 j 16:01	0° 8		opposition direct	-4907 Sep 08 j 07:31	8 ≈43 13 0°≈46'57	-3 30 43
	-4912 Jun 17 j 07:15	0°II			-4907 Oct 13 j 19:08	0 ≈46 37 17°≈58'03	
	-4912 Aug 03 j 13:14	0°©		asc. node	-4907 Dec 14 j 03:45 -4906 Jan 07 j 15:55	0° ∺	
	-4912 Sep 19 j 21:45 -4912 Nov 06 j 20:36	0°€ 0°€			-4906 Jan 07 j 13.33	0° Υ	
	-4912 Dec 27 j 06:33	0°m)			-4906 Mar 02 j 14.17 -4906 Apr 21 j 11:46	0°8	
	-4912 Dec 27 j 00:53	0∘ ت رابا			-4906 Apr 21 j 11:46	0°II	
retrograde	-4911 Mar 29 j 05:11	0 == 4° ჲ 08'18		evening set	-4906 Jul 03 j 22:29	0 H 17°∏12'01	
desc. node	-4911 Mar 29 j 03:11 -4911 Apr 23 j 01:04	0° £ 33'56		max. Earth dist.	-4906 Jul 03 j 22:29		2.54320 AU
desc. flode	-4911 Apr 25 j 04:51	0 ==33 30 30°R, Mp		max. Earm dist.	-4906 Jul 22 j 20:10	29 п 14 04	2.34320 AO
opposition	-4911 Apr 28 j 21:32	29° Mp 00'02	0°26'23		-4900 Jul 22 j 20.10	0 39	
greatest brilliancy	-4911 Apr 28 j 22:45	28° m 59'12		conjunction	-4906 Aug 22 j 06:13	21°©12'46	1°03'33
min. Earth dist.	-4911 May 02 j 14:17	27° m 59'31	0.38713 AU	minimum elong	-4906 Aug 22 j 07:37	21°915'15	
direct	-4911 May 30 j 11:49	23° m 26'19	0.38713 AU	minimum clong	-4906 Sep 03 j 13:13	0°Ω	1 03 48
direct	-4911 Jul 02 j 04:27	0° Ω		morning rise	-4906 Oct 13 j 08:44	29° Ω 16'16	
	-4911 Aug 27 j 22:36	0° m .		morning risc	-4906 Oct 14 j 08:04	0° m	
	-4911 Oct 12 j 17:08	0° ∡ 7			-4906 Nov 22 j 18:10	0∘ ত المار	
	-4911 Nov 26 j 02:57	0° ਠ		desc. node	-4906 Dec 14 j 00:27	0 = 16° £ 25'37	
	-4910 Jan 10 j 01:14	0° ≈		dese. Hode	-4906 Dec 31 j 12:48	0°M	
	-4910 Feb 25 j 00:36	0°) €			-4905 Feb 08 j 11:56	0° ∡ 7	
asc. node	-4910 Mar 11 j 04:39	9° ₩ 07'06			-4905 Mar 20 j 15:27	0°ಕ	
	-4910 Apr 12 j 21:03	0° Υ			-4905 May 02 j 07:15	0° ≈	
evening set	-4910 Apr 17 j 11:51	2° Y '56'21			-4905 Jun 19 j 04:19	0°)	
max. Earth dist.	-4910 May 29 j 22:56	29° Y ′58'16	2.66921 AU	retrograde	-4905 Sep 08 j 07:35	29° 米 02′19	
	-4910 May 30 j 00:01	0°8		min. Earth dist.	-4905 Oct 14 j 21:15	20° ∺ 27'24	0.63739 AU
				opposition	-4905 Oct 18 j 07:37	19°) (04′44	-0°32'53
conjunction	-4910 Jun 03 j 21:24	3° 8 07'25	0°44'07	greatest brilliancy	-4905 Oct 18 j 06:13	19°) €06'09	-1.5m
minimum elong	-4910 Jun 03 j 20:08	3° 8 05'23	0°44'14	asc. node	-4905 Nov 01 j 05:13	13° ¥ 55′57	
	-4910 Jul 15 j 15:58	Π $^{\circ}0$		direct	-4905 Nov 26 j 00:39	9° ⊁ 54'30	
morning rise	-4910 Jul 19 j 08:00	2° Ⅲ 22'54			-4904 Feb 02 j 18:42	0° Y	
	-4910 Aug 30 j 08:46	0 \circ			-4904 Mar 30 j 02:18	9° 8	
	-4910 Oct 13 j 23:01	0 $^{\circ}\Omega$			-4904 May 18 j 09:54	Π °0	
	-4910 Nov 26 j 14:55	0° m			-4904 Jul 02 j 22:40	0 \circ \odot	
	-4909 Jan 08 j 19:14	0∘ ⊽			-4904 Aug 14 j 13:42	$0^{\circ}\Omega$	
	-4909 Feb 21 j 12:59	0° M		evening set	-4904 Aug 18 j 06:21	2° Ω 40′59	
desc. node	-4909 Mar 11 j 02:12	11°M33'28		max. Earth dist.	-4904 Sep 06 j 03:14	16° Ω 35'22	2.42161 AU
	-4909 Apr 10 j 10:23	0° ∡			-4904 Sep 23 j 23:03	0° ™	
retrograde	-4909 Jun 11 j 23:18	21° ₹ 09'07					
min. Earth dist.	-4909 Jul 08 j 18:31	16° ₹ 25'51	0.42172 AU	conjunction	-4904 Oct 13 j 15:45	15° m 04'54	0°12'24
greatest brilliancy	-4909 Jul 14 j 16:12	14° ₹ 34'24	-2.6m	minimum elong	-4904 Oct 13 j 16:41	15° M 06'41	0°12'28
opposition	-4909 Jul 16 j 06:10	14° ₹ 04'12	-6°22'37	behind sun begin	-4904 Oct 12 j 23:59	14° m 34'30	
direct	-4909 Aug 16 j 12:19	8° ∡ 11′23		behind sun end	-4904 Oct 14 j 09:22	15° m 38'53	
	-4909 Oct 23 j 22:46	0°ප		desc. node	-4904 Oct 30 j 20:23	28° m 25'23	
	-4909 Dec 16 j 10:36	0° ≈			-4904 Nov 01 j 20:54	0∘ 亚	
asc. node	-4908 Jan 27 j 03:28	25°≈09'25			-4904 Dec 10 j 03:34	0° M ₊	
	-4908 Feb 04 j 01:37	0°) €		morning rise	-4904 Dec 16 j 09:54	4° ጤ 54'36	
	-4908 Mar 23 j 17:37	0° Υ			-4903 Jan 17 j 15:54	0° ∡ ¹	
	-4908 May 10 j 15:30	0°8			-4903 Feb 26 j 06:47	0°ರ	
evening set	-4908 May 25 j 01:26	9° 8 09'45			-4903 Apr 08 j 20:39	0° ≈	
max. Earth dist.	-4908 Jun 22 j 07:29	27° 8 22'08	2.63124 AU		-4903 May 23 j 08:04	0° ∀	
	-4908 Jun 26 j 08:20	Π $^{\circ}0$			-4903 Jul 11 j 15:13	0° Υ	
	4000 1 1 10:22 12	00 Та стоо	1000102	1	-4903 Sep 16 j 16:23	0°8	
conjunction	-4908 Jul 10 j 22:43	9° Ⅱ 35′29	1 09 03	asc. node	-4903 Sep 18 j 07:08	0° 8 25'20	

Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	ie year -5399 i	in astronomica
retrograde	-4903 Oct 12 j 05:24	3° 8 41'36	
	-4903 Nov 04 j 21:17	30° ŖƳ	
opposition	-4903 Nov 21 j 01:20	24° Y 03'07	2°17'28
greatest brilliancy	-4903 Nov 21 j 00:43	24° Y 03'43	-1.3m
min. Earth dist.	-4903 Nov 21 j 08:48	23° Y ′55'38	0.67093 AU
direct	-4903 Dec 31 j 16:20	14° Y °13′21	
	-4902 Feb 28 j 17:47	0°8	
	-4902 Apr 26 j 08:04	0°II	
	-4902 Jun 12 j 19:20	0.බ 0 H	
	-4902 Jul 25 j 23:43	0°Ω	
	-4902 Sep 04 j 10:08	0° Mp	
desc. node	-4902 Sep 17 j 17:56	10° Mp 12'17	
_	-4902 Oct 13 j 04:48	0∘ ⊽	
evening set	-4902 Oct 16 j 21:27	2° ≏ 53'47	
	-4902 Nov 20 j 07:51	0°M₊	
conjunction	-4902 Dec 20 j 23:26	23°M58'58	-0°57'59
minimum elong	-4902 Dec 20 j 20:27	23°M53'10	0°58'10
	-4902 Dec 28 j 17:59	0° ∡ 7	
	-4901 Feb 06 j 07:41	0°₹	
max. Earth dist.	-4901 Feb 06 j 14:21	0°る12'23	2.41511 AU
morning rise	-4901 Feb 24 j 23:45	13° る 42'52	
. 8	-4901 Mar 19 j 17:33	0° ≈	
	-4901 May 02 j 11:13	0° ∀	
	-4901 Jun 17 j 23:37	0° Υ	
asc. node	-4901 Aug 06 j 07:02	29° Υ 18'46	
asc. nouc	-4901 Aug 07 j 12:31	0° 8	
		0°II	
	-4901 Oct 09 j 12:15		
retrograde	-4901 Nov 17 j 10:40	7° Ⅱ 43'36	
	-4901 Dec 22 j 23:14	30°₹ ႘	100.415.5
opposition	-4901 Dec 26 j 00:59	28° 8 48'26	4°24'55
greatest brilliancy	-4901 Dec 26 j 14:03	28° 8 35'38	-1.4m
min. Earth dist.	-4901 Dec 30 j 03:33	27° 8 12'07	0.64134 AU
direct	-4900 Feb 05 j 04:56	18° 8 48'30	
	-4900 Mar 23 j 07:32	Π °0	
	-4900 May 19 j 01:21	0	
	-4900 Jul 03 j 12:18	$0^{\circ}\Omega$	
desc. node	-4900 Aug 04 j 16:11	23° Ω 13'22	
	-4900 Aug 13 j 17:58	0° m y	
	-4900 Sep 21 j 20:56	0∘ ত	
	-4900 Oct 30 j 05:35	o° m ₊	
	-4900 Dec 07 j 21:39	0° ∡ ¹	
evening set	-4900 Dec 23 j 01:51	11° ∡ ³33'31	
	-4899 Jan 16 j 18:10	0°ਰ	
	j		
conjunction	-4899 Feb 21 j 12:39	25° ප 50'40	-0°50'55
minimum elong	-4899 Feb 21 j 14:37	25° ප 54'08	1°00'09
minimum ciong	-4899 Feb 27 j 10:07	23 3 34 08 0° ≈	1 00 09
max. Earth dist.	-4899 Mar 28 j 20:59	0 ∞ 20°≈21'07	2 54250 ATT
max. Earm dist.			2.54258 AU
	-4899 Apr 12 j 04:14	0°) {	
morning rise	-4899 Apr 18 j 11:36	4°) 12′28	
	-4899 May 28 j 00:06	0°Υ	
asc. node	-4899 Jun 23 j 04:41	16° Y 35'35	
	-4899 Jul 14 j 19:36	0°B	
	-4899 Sep 03 j 05:52	Π °0	
	-4899 Oct 30 j 18:29	0	
retrograde	-4899 Dec 29 j 14:47	16° © 08'53	