

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -4400 in astronomical counting style is the year 4401 BCE in historical counting style.

retrograde	-4400 Jan 31 j 03:19	23° $\overline{10}$ 25'24		opposition	-4394 May 14 j 05:14	17° $\overline{05}$ 06	0°22'43
opposition	-4400 Apr 16 j 18:24	21° $\overline{10}$ 25'21	0°42'35	direct	-4394 Jul 29 j 16:45	15° $\overline{06}$ 37	
min. Earth dist.	-4400 Apr 16 j 03:38	21° $\overline{10}$ 26'51	18.14506 AU	evening set	-4394 Oct 28 j 14:56	18° $\overline{05}$ 13'23	
direct	-4400 Jul 02 j 18:26	19° $\overline{10}$ 24'46					
evening set	-4400 Oct 03 j 04:26	22° $\overline{10}$ 39'06		conjunction	-4394 Nov 13 j 04:44	19° $\overline{08}$ 29	0°18'52
				minimum elong	-4394 Nov 13 j 04:43	19° $\overline{08}$ 29	0°18'48
conjunction	-4400 Oct 18 j 18:07	23° $\overline{10}$ 35'34	0°37'06	max. Earth dist.	-4394 Nov 14 j 05:43	19° $\overline{12}$ 11	20.56631 AU
minimum elong	-4400 Oct 18 j 18:08	23° $\overline{10}$ 35'34	0°37'08	morning rise	-4394 Nov 28 j 20:05	20° $\overline{03}$ 50	
max. Earth dist.	-4400 Oct 19 j 09:48	23° $\overline{10}$ 37'57	20.17992 AU	retrograde	-4393 Mar 02 j 02:09	23° $\overline{05}$ 14'58	
morning rise	-4400 Nov 03 j 07:41	24° $\overline{10}$ 32'01		opposition	-4393 May 18 j 20:11	21° $\overline{05}$ 15'13	0°18'58
retrograde	-4399 Feb 03 j 17:34	27° $\overline{10}$ 46'30		min. Earth dist.	-4393 May 17 j 19:48	21° $\overline{05}$ 17'40	18.59568 AU
opposition	-4399 Apr 21 j 14:19	25° $\overline{10}$ 46'34	0°39'42	direct	-4393 Aug 03 j 05:45	19° $\overline{05}$ 17'00	
min. Earth dist.	-4399 Apr 20 j 22:50	25° $\overline{10}$ 48'08	18.21461 AU	evening set	-4393 Nov 01 j 22:17	22° $\overline{05}$ 22'37	
direct	-4399 Jul 07 j 11:35	23° $\overline{10}$ 46'25					
evening set	-4399 Oct 07 j 16:10	26° $\overline{10}$ 59'28		conjunction	-4393 Nov 17 j 12:14	23° $\overline{05}$ 17'32	0°15'28
				minimum elong	-4393 Nov 17 j 12:14	23° $\overline{05}$ 17'32	0°15'24
conjunction	-4399 Oct 23 j 05:35	27° $\overline{10}$ 55'40	0°34'26	behind sun begin	-4393 Nov 17 j 10:03	23° $\overline{05}$ 17'13	
minimum elong	-4399 Oct 23 j 05:35	27° $\overline{10}$ 55'40	0°34'27	behind sun end	-4393 Nov 17 j 14:25	23° $\overline{05}$ 17'51	
max. Earth dist.	-4399 Oct 23 j 22:21	27° $\overline{10}$ 58'12	20.24892 AU	max. Earth dist.	-4393 Nov 18 j 13:43	23° $\overline{05}$ 21'18	20.62438 AU
morning rise	-4399 Nov 07 j 19:19	28° $\overline{10}$ 51'54		morning rise	-4393 Dec 03 j 04:15	24° $\overline{05}$ 12'45	
	-4399 Nov 27 j 22:40	0° $\overline{05}$		retrograde	-4392 Mar 05 j 14:55	27° $\overline{05}$ 23'22	
retrograde	-4398 Feb 08 j 09:45	2° $\overline{05}$ 05'50		min. Earth dist.	-4392 May 21 j 07:51	25° $\overline{05}$ 26'15	18.65306 AU
opposition	-4398 Apr 26 j 09:14	0° $\overline{06}$ 06'00	0°36'38	opposition	-4392 May 22 j 10:07	25° $\overline{05}$ 23'37	0°15'08
min. Earth dist.	-4398 Apr 25 j 15:08	0° $\overline{07}$ 07'51	18.28291 AU	direct	-4392 Aug 06 j 17:58	23° $\overline{05}$ 25'39	
	-4398 Apr 28 j 20:24	30° $\overline{08}$		evening set	-4392 Nov 05 j 04:56	26° $\overline{05}$ 30'13	
direct	-4398 Jul 12 j 04:44	28° $\overline{10}$ 06'15					
	-4398 Sep 18 j 16:21	0° $\overline{08}$		conjunction	-4392 Nov 20 j 19:21	27° $\overline{05}$ 24'59	0°12'00
evening set	-4398 Oct 12 j 03:05	1° $\overline{08}$ 18'01		minimum elong	-4392 Nov 20 j 19:21	27° $\overline{05}$ 24'59	0°11'55
				behind sun begin	-4392 Nov 20 j 14:45	27° $\overline{05}$ 24'19	
conjunction	-4398 Oct 27 j 16:28	2° $\overline{08}$ 13'58	0°31'35	behind sun end	-4392 Nov 20 j 23:57	27° $\overline{05}$ 25'38	
minimum elong	-4398 Oct 27 j 16:28	2° $\overline{08}$ 13'58	0°31'35	max. Earth dist.	-4392 Nov 21 j 23:04	27° $\overline{05}$ 29'04	20.68082 AU
max. Earth dist.	-4398 Oct 28 j 11:29	2° $\overline{08}$ 16'50	20.31634 AU	morning rise	-4392 Dec 06 j 11:50	28° $\overline{05}$ 20'04	
morning rise	-4398 Nov 12 j 06:18	3° $\overline{08}$ 10'01			-4391 Jan 07 j 05:21	0° $\overline{08}$	
retrograde	-4397 Feb 12 j 23:01	6° $\overline{08}$ 23'23		retrograde	-4391 Mar 10 j 00:22	1° $\overline{08}$ 30'12	
min. Earth dist.	-4397 Apr 30 j 08:58	4° $\overline{08}$ 25'31	18.34944 AU		-4391 May 14 j 14:25	30° $\overline{08}$	
opposition	-4397 May 01 j 03:40	4° $\overline{08}$ 23'37	0°33'22	opposition	-4391 May 26 j 23:21	29° $\overline{08}$ 30'29	0°11'16
direct	-4397 Jul 16 j 20:46	2° $\overline{08}$ 24'14		min. Earth dist.	-4391 May 25 j 20:30	29° $\overline{08}$ 33'11	18.70864 AU
evening set	-4397 Oct 16 j 13:10	5° $\overline{08}$ 34'42		direct	-4391 Aug 11 j 04:53	27° $\overline{08}$ 32'49	
					-4391 Oct 29 j 15:13	0° $\overline{08}$	
conjunction	-4397 Nov 01 j 02:29	6° $\overline{08}$ 30'26	0°28'35	evening set	-4391 Nov 09 j 11:09	0° $\overline{08}$ 36'22	
minimum elong	-4397 Nov 01 j 02:29	6° $\overline{08}$ 30'26	0°28'35				
max. Earth dist.	-4397 Nov 01 j 22:16	6° $\overline{08}$ 33'24	20.38193 AU	conjunction	-4391 Nov 25 j 01:51	1° $\overline{08}$ 30'59	0°08'30
morning rise	-4397 Nov 16 j 16:43	7° $\overline{08}$ 26'17		minimum elong	-4391 Nov 25 j 01:50	1° $\overline{08}$ 30'59	0°08'24
retrograde	-4396 Feb 17 j 14:14	10° $\overline{08}$ 39'06		behind sun begin	-4391 Nov 24 j 20:04	1° $\overline{08}$ 30'09	
opposition	-4396 May 04 j 21:06	8° $\overline{08}$ 39'21	0°29'57	behind sun end	-4391 Nov 25 j 07:37	1° $\overline{08}$ 31'48	
min. Earth dist.	-4396 May 04 j 00:03	8° $\overline{08}$ 41'29	18.41398 AU	max. Earth dist.	-4391 Nov 26 j 05:46	1° $\overline{08}$ 35'05	20.73550 AU
direct	-4396 Jul 20 j 12:07	6° $\overline{08}$ 40'18		morning rise	-4391 Dec 10 j 19:05	2° $\overline{08}$ 25'57	
evening set	-4396 Oct 19 j 22:32	9° $\overline{08}$ 49'30		retrograde	-4390 Mar 14 j 11:47	5° $\overline{08}$ 35'40	
				min. Earth dist.	-4390 May 30 j 07:32	3° $\overline{08}$ 38'50	18.76235 AU
conjunction	-4396 Nov 04 j 12:00	10° $\overline{08}$ 45'00	0°25'27	opposition	-4390 May 31 j 11:50	3° $\overline{08}$ 36'00	0°07'21
minimum elong	-4396 Nov 04 j 12:00	10° $\overline{08}$ 45'00	0°25'25	direct	-4390 Aug 15 j 15:24	1° $\overline{08}$ 38'36	
max. Earth dist.	-4396 Nov 05 j 10:00	10° $\overline{08}$ 48'18	20.44532 AU	evening set	-4390 Nov 13 j 16:55	4° $\overline{08}$ 41'14	
morning rise	-4396 Nov 20 j 02:29	11° $\overline{08}$ 40'41					
retrograde	-4395 Feb 21 j 01:48	14° $\overline{08}$ 52'54		conjunction	-4390 Nov 29 j 08:11	5° $\overline{08}$ 35'43	0°04'59
opposition	-4395 May 09 j 13:34	12° $\overline{08}$ 53'11	0°26'23	minimum elong	-4390 Nov 29 j 08:11	5° $\overline{08}$ 35'43	0°04'53
min. Earth dist.	-4395 May 08 j 16:02	12° $\overline{08}$ 55'21	18.47635 AU	behind sun begin	-4390 Nov 29 j 01:48	5° $\overline{08}$ 34'49	
direct	-4395 Jul 25 j 02:54	10° $\overline{08}$ 54'25		behind sun end	-4390 Nov 29 j 14:34	5° $\overline{08}$ 36'38	
evening set	-4395 Oct 24 j 07:11	14° $\overline{08}$ 02'23		max. Earth dist.	-4390 Nov 30 j 14:09	5° $\overline{08}$ 40'06	20.78800 AU
				morning rise	-4390 Dec 15 j 01:59	6° $\overline{08}$ 30'36	
conjunction	-4395 Nov 08 j 20:42	14° $\overline{08}$ 57'40	0°22'12	retrograde	-4389 Mar 18 j 20:55	9° $\overline{08}$ 39'54	
minimum elong	-4395 Nov 08 j 20:42	14° $\overline{08}$ 57'41	0°22'10	opposition	-4389 Jun 04 j 23:43	7° $\overline{08}$ 40'18	0°03'26
max. Earth dist.	-4395 Nov 09 j 19:17	15° $\overline{08}$ 01'03	20.50675 AU	min. Earth dist.	-4389 Jun 03 j 19:01	7° $\overline{08}$ 43'11	18.81361 AU
morning rise	-4395 Nov 24 j 11:43	15° $\overline{08}$ 53'11		direct	-4389 Aug 20 j 00:45	5° $\overline{08}$ 43'13	
retrograde	-4394 Feb 25 j 15:53	19° $\overline{08}$ 04'51		evening set	-4389 Nov 17 j 22:23	8° $\overline{08}$ 44'58	
min. Earth dist.	-4394 May 13 j 05:34	17° $\overline{08}$ 07'30	18.53689 AU				

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 2

Attention, astronomical year style is used: The year -4389 in astronomical counting style is the year 4390 BCE in historical counting style.

conjunction	-4389 Dec 03 j 14:04	9°M.39'20	0°01'25			-4384 Dec 27 j 03:32	0°♂
minimum elong	-4389 Dec 03 j 14:04	9°M.39'20	0°01'17	morning rise		-4383 Jan 07 j 17:02	0°♂39'29
behind sun begin	-4389 Dec 03 j 07:31	9°M.38'25		retrograde		-4383 Apr 12 j 03:40	3°♂47'03
behind sun end	-4389 Dec 03 j 20:37	9°M.40'16		min. Earth dist.		-4383 Jun 28 j 05:57	1°♂50'37 19.03937 AU
max. Earth dist.	-4389 Dec 04 j 19:51	9°M.43'41	20.83794 AU	opposition		-4383 Jun 29 j 10:39	1°♂47'44 -0°19'32
morning rise	-4389 Dec 19 j 08:46	10°M.34'08				-4383 Aug 25 j 19:27	30°R.M.
retrograde	-4388 Mar 22 j 07:26	13°M.43'05		direct		-4383 Sep 12 j 22:36	29°M.51'46
desc. node	-4388 Apr 23 j 06:57	13°M.19'10				-4383 Sep 30 j 18:21	0°♂
min. Earth dist.	-4388 Jun 07 j 05:25	11°M.46'31	18.86205 AU	evening set		-4383 Dec 11 j 03:37	2°♂49'49
opposition	-4388 Jun 08 j 10:57	11°M.43'34	-0°00'30				
direct	-4388 Aug 23 j 09:35	9°M.46'44		conjunction		-4383 Dec 26 j 23:27	3°♂43'53 -0°19'16
evening set	-4388 Nov 21 j 03:37	12°M.47'43		minimum elong		-4383 Dec 26 j 23:27	3°♂43'53 0°19'26
				max. Earth dist.		-4383 Dec 28 j 05:08	3°♂48'08 21.04958 AU
conjunction	-4388 Dec 06 j 19:58	13°M.42'00	-0°02'14	morning rise		-4382 Jan 11 j 23:19	4°♂38'30
minimum elong	-4388 Dec 06 j 19:59	13°M.42'00	0°02'22	retrograde		-4382 Apr 16 j 12:12	7°♂45'53
behind sun begin	-4388 Dec 06 j 13:26	13°M.41'04		opposition		-4382 Jul 03 j 18:44	5°♂46'31 -0°23'05
behind sun end	-4388 Dec 07 j 02:32	13°M.42'55		min. Earth dist.		-4382 Jul 02 j 14:34	5°♂49'20 19.05941 AU
max. Earth dist.	-4388 Dec 08 j 03:20	13°M.46'33	20.88455 AU	direct		-4382 Sep 17 j 04:15	3°♂50'34
morning rise	-4388 Dec 22 j 15:19	14°M.36'43		evening set		-4382 Dec 15 j 08:03	6°♂48'13
	-4388 Dec 29 j 13:49	15°M.					
retrograde	-4387 Mar 26 j 16:24	17°M.45'20		conjunction		-4382 Dec 31 j 04:53	7°♂42'18 -0°22'26
opposition	-4387 Jun 12 j 21:26	15°M.45'54	-0°04'25	minimum elong		-4382 Dec 31 j 04:52	7°♂42'18 0°22'37
min. Earth dist.	-4387 Jun 11 j 15:56	15°M.48'51	18.90681 AU	max. Earth dist.		-4381 Jan 01 j 11:14	7°♂46'38 21.06709 AU
	-4387 Jul 02 j 12:56	15°R.M.		morning rise		-4381 Jan 16 j 05:33	8°♂36'56
direct	-4387 Aug 27 j 17:52	13°M.49'20		retrograde		-4381 Apr 20 j 19:06	11°♂44'08
	-4387 Oct 20 j 03:00	15°M.		min. Earth dist.		-4381 Jul 06 j 22:29	9°♂47'29 19.07453 AU
evening set	-4387 Nov 25 j 08:44	16°M.49'36		opposition		-4381 Jul 08 j 02:12	9°♂44'42 -0°26'31
				direct		-4381 Sep 21 j 10:27	7°♂48'45
conjunction	-4387 Dec 11 j 01:36	17°M.43'48	-0°05'46	evening set		-4381 Dec 19 j 12:35	10°♂46'05
minimum elong	-4387 Dec 11 j 01:35	17°M.43'48	0°05'55				
behind sun begin	-4387 Dec 10 j 19:19	17°M.42'55		conjunction		-4380 Jan 04 j 10:10	11°♂40'11 -0°25'28
behind sun end	-4387 Dec 11 j 07:51	17°M.44'41		minimum elong		-4380 Jan 04 j 10:10	11°♂40'11 0°25'40
max. Earth dist.	-4387 Dec 12 j 08:12	17°M.48'14	20.92737 AU	max. Earth dist.		-4380 Jan 05 j 15:01	11°♂44'18 21.08003 AU
morning rise	-4387 Dec 26 j 21:52	18°M.38'29		morning rise		-4380 Jan 20 j 11:59	12°♂34'51
retrograde	-4386 Mar 31 j 01:58	21°M.46'48		retrograde		-4380 Apr 24 j 03:31	15°♂41'54
min. Earth dist.	-4386 Jun 16 j 01:48	19°M.50'24	18.94755 AU	min. Earth dist.		-4380 Jul 10 j 06:20	13°♂45'06 19.08535 AU
opposition	-4386 Jun 17 j 07:34	19°M.47'26	-0°08'17	opposition		-4380 Jul 11 j 09:18	13°♂42'24 -0°29'48
direct	-4386 Sep 01 j 01:19	17°M.51'04		direct		-4380 Sep 24 j 15:11	11°♂46'25
evening set	-4386 Nov 29 j 13:29	20°M.50'42		evening set		-4380 Dec 22 j 17:04	14°♂43'31
conjunction	-4386 Dec 15 j 07:09	21°M.44'50	-0°09'14	conjunction		-4379 Jan 07 j 15:40	15°♂37'40 -0°28'23
minimum elong	-4386 Dec 15 j 07:08	21°M.44'50	0°09'23	minimum elong		-4379 Jan 07 j 15:40	15°♂37'40 0°28'36
behind sun begin	-4386 Dec 15 j 01:37	21°M.44'04		max. Earth dist.		-4379 Jan 08 j 21:07	15°♂41'51 21.08868 AU
behind sun end	-4386 Dec 15 j 12:40	21°M.45'37		morning rise		-4379 Jan 23 j 18:17	16°♂32'23
max. Earth dist.	-4386 Dec 16 j 14:54	21°M.49'26	20.96569 AU	retrograde		-4379 Apr 28 j 10:02	19°♂39'19
morning rise	-4386 Dec 31 j 04:07	22°M.39'29		opposition		-4379 Jul 15 j 15:52	17°♂39'46 -0°32'57
retrograde	-4385 Apr 04 j 10:49	25°M.47'32		min. Earth dist.		-4379 Jul 14 j 13:20	17°♂42'26 19.09201 AU
min. Earth dist.	-4385 Apr 20 j 11:41	23°M.51'10	18.98342 AU	direct		-4379 Sep 28 j 20:34	15°♂43'46
opposition	-4385 Jun 21 j 17:10	23°M.48'13	-0°12'07	evening set		-4379 Dec 26 j 21:45	18°♂40'42
direct	-4385 Sep 05 j 09:05	21°M.52'03					
evening set	-4385 Dec 03 j 18:25	24°M.51'05		conjunction		-4378 Jan 11 j 21:08	19°♂34'53 -0°31'10
				minimum elong		-4378 Jan 11 j 21:08	19°♂34'53 0°31'21
conjunction	-4385 Dec 19 j 12:40	25°M.45'11	-0°12'39	max. Earth dist.		-4378 Jan 13 j 00:57	19°♂38'51 21.09352 AU
minimum elong	-4385 Dec 19 j 12:40	25°M.45'11	0°12'49	morning rise		-4378 Jan 28 j 00:53	20°♂29'40
behind sun begin	-4385 Dec 19 j 08:32	25°M.44'36		retrograde		-4378 May 02 j 18:09	23°♂36'34
behind sun end	-4385 Dec 19 j 16:49	25°M.45'46		opposition		-4378 Jul 19 j 22:19	21°♂36'58 -0°35'56
max. Earth dist.	-4385 Dec 20 j 19:09	25°M.49'35	20.99904 AU	min. Earth dist.		-4378 Jul 18 j 20:40	21°♂39'33 19.09504 AU
morning rise	-4384 Jan 04 j 10:41	26°M.39'48		direct		-4378 Oct 03 j 00:13	19°♂40'55
retrograde	-4384 Apr 07 j 19:41	29°M.47'37		evening set		-4378 Dec 31 j 02:24	22°♂37'46
min. Earth dist.	-4384 Jun 23 j 20:58	27°M.51'14	19.01418 AU				
opposition	-4384 Jun 25 j 02:08	27°M.48'19	-0°15'52	conjunction		-4377 Jan 16 j 02:54	23°♂32'03 -0°33'48
direct	-4384 Sep 08 j 15:27	25°M.52'15		minimum elong		-4377 Jan 16 j 02:54	23°♂32'03 0°34'00
evening set	-4384 Dec 06 j 23:05	28°M.50'47		max. Earth dist.		-4377 Jan 17 j 07:11	23°♂36'04 21.09463 AU
				morning rise		-4377 Feb 01 j 07:31	24°♂26'55
conjunction	-4384 Dec 22 j 18:15	29°M.44'52	-0°16'00	retrograde		-4377 May 07 j 01:28	27°♂33'48
minimum elong	-4384 Dec 22 j 18:15	29°M.44'52	0°16'10	min. Earth dist.		-4377 Jul 23 j 03:22	25°♂36'42 19.09423 AU
max. Earth dist.	-4384 Dec 24 j 01:22	29°M.49'20	21.02699 AU	opposition		-4377 Jul 24 j 04:28	25°♂34'10 -0°38'46

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 3

Attention, astronomical year style is used: The year -4377 in astronomical counting style is the year 4378 BCE in historical counting style.

direct	-4377 Oct 07 j 05:20	23° \nearrow 38'05		minimum elong	-4370 Feb 13 j 06:56	21° \searrow 23'18	0°47'26
evening set	-4376 Jan 04 j 07:35	26° \nearrow 34'57		max. Earth dist.	-4370 Feb 13 j 23:46	21° \searrow 25'41	20.98399 AU
				morning rise	-4370 Mar 01 j 18:28	22° \searrow 19'07	
conjunction	-4376 Jan 20 j 08:56	27° \nearrow 29'19	-0°36'16	retrograde	-4370 Jun 04 j 15:28	25° \searrow 27'02	
minimum elong	-4376 Jan 20 j 08:56	27° \nearrow 29'19	0°36'28	opposition	-4370 Aug 20 j 21:35	23° \searrow 27'09	-0°52'51
max. Earth dist.	-4376 Jan 21 j 11:13	27° \nearrow 33'03	21.09202 AU	min. Earth dist.	-4370 Aug 20 j 07:14	23° \searrow 28'37	18.96698 AU
morning rise	-4376 Feb 05 j 14:43	28° \nearrow 24'17		direct	-4370 Nov 03 j 11:45	21° \searrow 30'11	
	-4376 Mar 08 j 00:10	0° \searrow		evening set	-4369 Feb 01 j 07:56	24° \searrow 29'19	
retrograde	-4376 May 10 j 09:40	1° \searrow 31'12					
	-4376 Jul 15 j 13:52	30° \nwarrow		conjunction	-4369 Feb 17 j 16:37	25° \searrow 24'47	-0°48'18
min. Earth dist.	-4376 Jul 26 j 10:33	29° \nearrow 33'57	19.08974 AU	minimum elong	-4369 Feb 17 j 16:37	25° \searrow 24'47	0°48'30
opposition	-4376 Jul 27 j 10:21	29° \nearrow 31'33	-0°41'24	max. Earth dist.	-4369 Feb 18 j 08:29	25° \searrow 27'02	20.94808 AU
direct	-4376 Oct 10 j 08:28	27° \nearrow 35'24		morning rise	-4369 Mar 06 j 04:55	26° \searrow 20'47	
	-4376 Dec 28 j 14:22	0° \searrow		retrograde	-4369 Jun 09 j 01:30	29° \searrow 28'56	
evening set	-4375 Jan 07 j 12:57	0° \searrow 32'23		opposition	-4369 Aug 25 j 03:40	27° \searrow 28'56	-0°53'55
				min. Earth dist.	-4369 Aug 24 j 14:42	27° \searrow 30'16	18.92847 AU
conjunction	-4375 Jan 23 j 15:27	1° \searrow 26'52	-0°38'35	direct	-4369 Nov 07 j 17:57	25° \searrow 31'41	
minimum elong	-4375 Jan 23 j 15:26	1° \searrow 26'52	0°38'47	evening set	-4368 Feb 05 j 17:13	28° \searrow 31'24	
max. Earth dist.	-4375 Jan 24 j 17:49	1° \searrow 30'36	21.08551 AU				
morning rise	-4375 Feb 08 j 22:02	2° \searrow 21'56		conjunction	-4368 Feb 22 j 02:45	29° \searrow 27'04	-0°49'08
retrograde	-4375 May 14 j 17:42	5° \searrow 28'55		minimum elong	-4368 Feb 22 j 02:45	29° \searrow 27'04	0°49'19
opposition	-4375 Jul 31 j 16:11	3° \searrow 29'16	-0°43'51	max. Earth dist.	-4368 Feb 22 j 15:19	29° \searrow 28'52	20.90734 AU
min. Earth dist.	-4375 Jul 30 j 17:09	3° \searrow 31'36	19.08115 AU		-4368 Mar 02 j 18:12	0° \approx	
direct	-4375 Oct 14 j 13:16	1° \searrow 33'05		morning rise	-4368 Mar 09 j 16:05	0° \approx 23'16	
evening set	-4374 Jan 11 j 18:42	4° \searrow 30'14		retrograde	-4368 Jun 12 j 10:53	3° \approx 31'42	
				opposition	-4368 Aug 28 j 09:51	1° \approx 31'33	-0°54'43
conjunction	-4374 Jan 27 j 22:03	5° \searrow 24'50	-0°40'42	min. Earth dist.	-4368 Aug 27 j 23:24	1° \approx 32'38	18.88556 AU
minimum elong	-4374 Jan 27 j 22:03	5° \searrow 24'50	0°40'55		-4368 Oct 09 j 19:10	30° \nwarrow	
max. Earth dist.	-4374 Jan 28 j 22:08	5° \searrow 28'15	21.07493 AU	direct	-4368 Nov 10 j 22:52	29° \searrow 33'58	
morning rise	-4374 Feb 13 j 05:47	6° \searrow 20'02			-4368 Dec 12 j 18:01	0° \approx	
retrograde	-4374 May 19 j 02:31	9° \searrow 27'10		evening set	-4367 Feb 09 j 02:52	2° \approx 34'21	
opposition	-4374 Aug 04 j 22:03	7° \searrow 27'30	-0°46'06				
min. Earth dist.	-4374 Aug 04 j 00:41	7° \searrow 29'40	19.06841 AU	conjunction	-4367 Feb 25 j 13:34	3° \approx 30'15	-0°49'44
direct	-4374 Oct 18 j 16:55	5° \searrow 31'13		minimum elong	-4367 Feb 25 j 13:34	3° \approx 30'15	0°49'55
evening set	-4373 Jan 16 j 00:59	8° \searrow 28'39		max. Earth dist.	-4367 Feb 26 j 01:15	3° \approx 31'55	20.86242 AU
				morning rise	-4367 Mar 14 j 03:33	4° \approx 26'38	
conjunction	-4373 Feb 01 j 05:30	9° \searrow 23'23	-0°42'39	retrograde	-4367 Jun 16 j 21:55	7° \approx 35'22	
minimum elong	-4373 Feb 01 j 05:30	9° \searrow 23'23	0°42'51	opposition	-4367 Sep 01 j 16:11	5° \approx 35'05	-0°55'15
max. Earth dist.	-4373 Feb 02 j 05:16	9° \searrow 26'46	21.05987 AU	min. Earth dist.	-4367 Sep 01 j 06:57	5° \approx 36'02	18.83875 AU
morning rise	-4373 Feb 17 j 14:03	10° \searrow 18'43		direct	-4367 Nov 15 j 05:59	3° \approx 37'10	
retrograde	-4373 May 23 j 11:14	13° \searrow 26'00		evening set	-4366 Feb 13 j 13:09	6° \approx 38'15	
min. Earth dist.	-4373 Aug 08 j 07:31	11° \searrow 28'23	19.05090 AU				
opposition	-4373 Aug 09 j 03:43	11° \searrow 26'20	-0°48'09	conjunction	-4366 Mar 02 j 00:40	7° \approx 34'23	-0°50'04
direct	-4373 Oct 22 j 21:22	9° \searrow 29'58		minimum elong	-4366 Mar 02 j 00:40	7° \approx 34'23	0°50'14
evening set	-4372 Jan 20 j 08:02	12° \searrow 27'43		max. Earth dist.	-4366 Mar 02 j 09:12	7° \approx 35'37	20.81401 AU
				morning rise	-4366 Mar 18 j 15:39	8° \approx 31'00	
conjunction	-4372 Feb 05 j 13:26	13° \searrow 22'37	-0°44'23	retrograde	-4366 Jun 21 j 07:40	11° \approx 40'06	
minimum elong	-4372 Feb 05 j 13:26	13° \searrow 22'37	0°44'36	opposition	-4366 Sep 01 j 22:53	9° \approx 39'39	-0°55'30
max. Earth dist.	-4372 Feb 06 j 10:17	13° \searrow 25'35	21.03994 AU	min. Earth dist.	-4366 Sep 05 j 16:07	9° \approx 40'21	18.78882 AU
morning rise	-4372 Feb 21 j 23:07	14° \searrow 18'06		direct	-4366 Nov 19 j 11:13	7° \approx 41'23	
retrograde	-4372 May 26 j 20:42	17° \searrow 25'35		evening set	-4365 Feb 18 j 00:08	10° \approx 43'17	
opposition	-4372 Aug 12 j 09:38	15° \searrow 25'52	-0°49'57				
min. Earth dist.	-4372 Aug 11 j 15:35	15° \searrow 27'42	19.02838 AU	conjunction	-4365 Mar 06 j 12:48	11° \approx 39'40	-0°50'10
direct	-4372 Oct 26 j 01:49	13° \searrow 29'20		minimum elong	-4365 Mar 06 j 12:48	11° \approx 39'40	0°50'20
evening set	-4371 Jan 23 j 15:24	16° \searrow 27'30		max. Earth dist.	-4365 Mar 06 j 20:26	11° \approx 40'45	20.76266 AU
				morning rise	-4365 Mar 23 j 04:23	12° \approx 36'30	
conjunction	-4371 Feb 08 j 21:58	17° \searrow 22'35	-0°45'55		-4365 May 13 j 04:19	15° \approx	
minimum elong	-4371 Feb 08 j 21:58	17° \searrow 22'35	0°46'07	retrograde	-4365 Jun 25 j 19:48	15° \approx 45'58	
max. Earth dist.	-4371 Feb 09 j 18:01	17° \searrow 25'26	21.01466 AU		-4365 Aug 08 j 23:01	15° \nwarrow	
morning rise	-4371 Feb 25 j 08:23	18° \searrow 18'13		opposition	-4365 Sep 10 j 05:38	13° \approx 45'23	-0°55'28
retrograde	-4371 May 31 j 05:56	21° \searrow 25'54		min. Earth dist.	-4365 Sep 10 j 00:01	13° \approx 45'58	18.73611 AU
opposition	-4371 Aug 16 j 15:30	19° \searrow 26'08	-0°51'32	direct	-4365 Nov 23 j 19:06	11° \approx 46'48	
min. Earth dist.	-4371 Aug 15 j 22:46	19° \searrow 27'51	19.00031 AU	evening set	-4364 Feb 22 j 12:04	14° \approx 49'33	
direct	-4371 Oct 30 j 06:51	17° \searrow 29'25			-4364 Feb 25 j 14:23	15° \approx	
evening set	-4370 Jan 27 j 23:30	20° \searrow 28'02					
				conjunction	-4364 Mar 10 j 01:29	15° \approx 46'12	-0°50'01
conjunction	-4370 Feb 13 j 06:56	21° \searrow 23'18	-0°47'13	minimum elong	-4364 Mar 10 j 01:29	15° \approx 46'12	0°50'09

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 4

Attention, astronomical year style is used: The year -4364 in astronomical counting style is the year 4365 BCE in historical counting style.

max. Earth dist.	-4364 Mar 10 j 05:51	15° \approx 46'50	20.70880 AU	min. Earth dist.	-4358 Oct 09 j 04:15	13° \approx 09'38	18.31221 AU
morning rise	-4364 Mar 26 j 17:56	16° \approx 43'16		direct	-4358 Dec 22 j 11:44	11° \approx 09'38	
retrograde	-4364 Jun 29 j 06:31	19° \approx 53'10		evening set	-4357 Mar 24 j 23:14	14° \approx 20'13	
opposition	-4364 Sep 13 j 12:59	17° \approx 52'28	-0°55'10				
min. Earth dist.	-4364 Sep 13 j 09:52	17° \approx 52'47	18.68120 AU	conjunction	-4357 Apr 10 j 18:00	15° \approx 18'55	-0°41'34
direct	-4364 Nov 27 j 01:24	15° \approx 53'32		minimum elong	-4357 Apr 10 j 18:00	15° \approx 18'55	0°41'38
evening set	-4363 Feb 26 j 00:27	18° \approx 57'14		max. Earth dist.	-4357 Apr 10 j 06:38	15° \approx 17'15	20.27823 AU
				morning rise	-4357 Apr 27 j 13:30	16° \approx 17'44	
conjunction	-4363 Mar 14 j 14:55	19° \approx 54'09	-0°49'36	retrograde	-4357 Jul 30 j 07:48	19° \approx 31'20	
minimum elong	-4363 Mar 14 j 14:55	19° \approx 54'09	0°49'44	opposition	-4357 Oct 13 j 06:30	17° \approx 30'05	-0°44'54
max. Earth dist.	-4363 Mar 14 j 18:19	19° \approx 54'39	20.65286 AU	min. Earth dist.	-4357 Oct 13 j 16:37	17° \approx 29'00	18.24375 AU
morning rise	-4363 Mar 31 j 07:50	20° \approx 51'28		direct	-4357 Dec 27 j 01:19	15° \approx 28'43	
retrograde	-4363 Jul 03 j 19:25	24° \approx 01'49		evening set	-4356 Mar 28 j 18:28	18° \approx 40'34	
opposition	-4363 Sep 17 j 20:37	22° \approx 01'02	-0°54'35				
min. Earth dist.	-4363 Sep 17 j 18:29	22° \approx 01'15	18.62425 AU	conjunction	-4356 Apr 14 j 13:35	19° \approx 39'32	-0°39'19
direct	-4363 Dec 01 j 09:57	20° \approx 01'47		minimum elong	-4356 Apr 14 j 13:36	19° \approx 39'32	0°39'22
evening set	-4362 Mar 02 j 13:56	23° \approx 06'30		max. Earth dist.	-4356 Apr 13 j 22:58	19° \approx 37'23	20.20893 AU
				morning rise	-4356 May 01 j 09:16	20° \approx 38'37	
conjunction	-4362 Mar 19 j 05:06	24° \approx 03'42	-0°48'55	retrograde	-4356 Aug 02 j 22:54	23° \approx 52'45	
minimum elong	-4362 Mar 19 j 05:06	24° \approx 03'42	0°49'03	opposition	-4356 Oct 16 j 18:35	21° \approx 51'22	-0°42'17
max. Earth dist.	-4362 Mar 19 j 05:14	24° \approx 03'43	20.59509 AU	min. Earth dist.	-4356 Oct 17 j 07:42	21° \approx 49'58	18.17386 AU
morning rise	-4362 Apr 04 j 22:46	25° \approx 01'16		direct	-4356 Dec 30 j 14:16	19° \approx 49'33	
retrograde	-4362 Jul 08 j 07:32	28° \approx 12'07		evening set	-4355 Apr 02 j 14:13	23° \approx 02'39	
opposition	-4362 Sep 22 j 04:48	26° \approx 11'15	-0°53'42				
min. Earth dist.	-4362 Sep 22 j 05:19	26° \approx 11'12	18.56566 AU	conjunction	-4355 Apr 19 j 09:50	24° \approx 01'55	-0°36'50
direct	-4362 Dec 05 j 17:38	24° \approx 11'40		minimum elong	-4355 Apr 19 j 09:50	24° \approx 01'55	0°36'53
evening set	-4361 Mar 07 j 04:11	27° \approx 17'28		max. Earth dist.	-4355 Apr 18 j 17:28	23° \approx 59'30	20.13861 AU
				morning rise	-4355 May 06 j 05:33	25° \approx 01'15	
conjunction	-4361 Mar 23 j 20:21	28° \approx 14'59	-0°47'59	retrograde	-4355 Aug 07 j 16:25	28° \approx 15'55	
minimum elong	-4361 Mar 23 j 20:21	28° \approx 14'59	0°48'06	opposition	-4355 Oct 21 j 07:08	26° \approx 14'23	-0°39'25
max. Earth dist.	-4361 Mar 23 j 19:17	28° \approx 14'49	20.53566 AU	min. Earth dist.	-4355 Oct 21 j 21:11	26° \approx 12'52	18.10320 AU
morning rise	-4361 Apr 09 j 14:27	29° \approx 12'48		direct	-4354 Jan 04 j 05:55	24° \approx 12'06	
	-4361 Apr 23 j 22:49	0° \approx		evening set	-4354 Apr 07 j 11:03	27° \approx 26'28	
retrograde	-4361 Jul 12 j 21:23	2° \approx 24'09		max. Earth dist.	-4354 Apr 23 j 11:55	28° \approx 23'12	20.06783 AU
opposition	-4361 Sep 26 j 13:27	0° \approx 23'15	-0°52'32				
min. Earth dist.	-4361 Sep 26 j 15:05	0° \approx 23'04	18.50522 AU	conjunction	-4354 Apr 24 j 06:56	28° \approx 26'01	-0°34'07
	-4361 Oct 05 j 19:21	30° \approx		minimum elong	-4354 Apr 24 j 06:56	28° \approx 26'01	0°34'08
direct	-4361 Dec 10 j 03:22	28° \approx 23'22		morning rise	-4354 May 11 j 02:37	29° \approx 25'35	
	-4360 Feb 11 j 03:27	0° \approx			-4354 May 21 j 04:32	0° \approx	
evening set	-4360 Mar 10 j 19:37	1° \approx 30'18		retrograde	-4354 Aug 12 j 08:24	2° \approx 40'46	
				opposition	-4354 Oct 25 j 20:23	0° \approx 39'05	-0°36'17
conjunction	-4360 Mar 27 j 12:21	2° \approx 28'06	-0°46'46	min. Earth dist.	-4354 Oct 26 j 13:15	0° \approx 37'16	18.03260 AU
minimum elong	-4360 Mar 27 j 12:21	2° \approx 28'06	0°46'53		-4354 Nov 10 j 05:37	30° \approx	
max. Earth dist.	-4360 Mar 27 j 07:51	2° \approx 27'27	20.47431 AU	direct	-4353 Jan 08 j 20:03	28° \approx 36'20	
morning rise	-4360 Apr 13 j 07:00	3° \approx 26'10			-4353 Mar 07 j 20:14	0° \approx	
retrograde	-4360 Jul 16 j 10:38	6° \approx 38'05		evening set	-4353 Apr 12 j 08:40	1° \approx 52'00	
opposition	-4360 Sep 29 j 22:46	4° \approx 37'07	-0°51'04	max. Earth dist.	-4353 Apr 28 j 08:01	2° \approx 48'43	19.99758 AU
min. Earth dist.	-4360 Sep 30 j 03:20	4° \approx 36'38	18.44296 AU				
direct	-4360 Dec 13 j 12:50	2° \approx 36'54		conjunction	-4353 Apr 29 j 04:49	2° \approx 51'49	-0°31'11
evening set	-4359 Mar 15 j 11:49	5° \approx 45'02		minimum elong	-4353 Apr 29 j 04:49	2° \approx 51'49	0°31'11
				morning rise	-4353 May 16 j 00:26	3° \approx 51'37	
conjunction	-4359 Apr 01 j 05:22	6° \approx 43'08	-0°45'18	retrograde	-4353 Aug 17 j 03:20	7° \approx 07'19	
minimum elong	-4359 Apr 01 j 05:23	6° \approx 43'08	0°45'23	opposition	-4353 Oct 30 j 10:19	5° \approx 05'29	-0°32'55
max. Earth dist.	-4359 Mar 31 j 23:21	6° \approx 42'16	20.41107 AU	min. Earth dist.	-4353 Oct 31 j 03:51	5° \approx 03'35	17.96283 AU
morning rise	-4359 Apr 18 j 00:17	7° \approx 41'28		direct	-4352 Jan 13 j 13:16	3° \approx 02'16	
retrograde	-4359 Jul 21 j 01:32	10° \approx 53'56		evening set	-4352 Apr 16 j 07:01	6° \approx 19'13	
opposition	-4359 Oct 04 j 08:38	8° \approx 52'54	-0°49'18	max. Earth dist.	-4352 May 02 j 04:35	7° \approx 15'55	19.92839 AU
min. Earth dist.	-4359 Oct 04 j 14:25	8° \approx 52'17	18.37864 AU				
direct	-4359 Dec 18 j 00:14	6° \approx 52'21		conjunction	-4352 May 03 j 03:16	7° \approx 19'18	-0°28'02
evening set	-4358 Mar 20 j 05:02	10° \approx 01'41		minimum elong	-4352 May 03 j 03:16	7° \approx 19'18	0°28'01
				morning rise	-4352 May 19 j 22:33	8° \approx 19'19	
conjunction	-4358 Apr 05 j 23:07	11° \approx 00'05	-0°43'34	retrograde	-4352 Aug 20 j 20:44	11° \approx 35'33	
minimum elong	-4358 Apr 05 j 23:07	11° \approx 00'05	0°43'39	opposition	-4352 Nov 03 j 01:08	9° \approx 33'35	-0°29'20
max. Earth dist.	-4358 Apr 05 j 13:37	10° \approx 58'41	20.34567 AU	min. Earth dist.	-4352 Nov 03 j 21:03	9° \approx 31'25	17.89465 AU
morning rise	-4358 Apr 22 j 18:27	11° \approx 58'40		direct	-4351 Jan 17 j 05:04	7° \approx 29'56	
retrograde	-4358 Jul 25 j 15:47	15° \approx 11'43		evening set	-4351 Apr 21 j 06:06	10° \approx 48'10	
opposition	-4358 Oct 08 j 19:23	13° \approx 10'35	-0°47'15	max. Earth dist.	-4351 May 07 j 01:58	11° \approx 44'51	19.86136 AU

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 5

Attention, astronomical year style is used: The year -4351 in astronomical counting style is the year 4352 BCE in historical counting style.

conjunction	-4351 May 08 j 02:21	11° Υ 48'31	-0°24'43	conjunction	-4345 Jun 06 j 10:11	9° δ 21'41	-0°01'53
minimum elong	-4351 May 08 j 02:21	11° Υ 48'31	0°24'41	minimum elong	-4345 Jun 06 j 10:11	9° δ 21'41	0°01'46
morning rise	-4351 May 24 j 21:24	12° Υ 48'44		behind sun begin	-4345 Jun 06 j 03:24	9° δ 20'40	
retrograde	-4351 Aug 25 j 16:36	16° Υ 05'29		behind sun end	-4345 Jun 06 j 16:57	9° δ 22'42	
opposition	-4351 Nov 07 j 16:31	14° Υ 03'24	-0°25'33	morning rise	-4345 Jun 23 j 01:19	10° δ 22'50	
min. Earth dist.	-4351 Nov 08 j 12:46	14° Υ 01'12	17.82890 AU	retrograde	-4345 Sep 22 j 23:20	13° δ 42'38	
direct	-4350 Jan 21 j 23:30	11° Υ 59'21		asc. node	-4345 Nov 17 j 21:41	12° δ 25'03	
evening set	-4350 Apr 26 j 05:55	15° Υ 18'52		opposition	-4345 Dec 05 j 07:16	11° δ 40'31	0°00'13
max. Earth dist.	-4350 May 12 j 00:40	16° Υ 15'37	19.79691 AU	min. Earth dist.	-4345 Dec 06 j 09:38	11° δ 37'39	17.50391 AU
				direct	-4344 Feb 19 j 02:51	9° δ 34'53	
conjunction	-4350 May 13 j 02:09	16° Υ 19'28	-0°21'13	evening set	-4344 May 24 j 19:44	13° δ 01'35	
minimum elong	-4350 May 13 j 02:09	16° Υ 19'28	0°21'11	max. Earth dist.	-4344 Jun 09 j 06:02	13° δ 58'26	19.48191 AU
morning rise	-4350 May 29 j 20:42	17° Υ 19'53					
retrograde	-4350 Aug 30 j 11:38	20° Υ 37'10		conjunction	-4344 Jun 10 j 13:14	14° δ 03'16	0°02'20
opposition	-4350 Nov 12 j 08:57	18° Υ 35'01	-0°21'35	minimum elong	-4344 Jun 10 j 13:14	14° δ 03'16	0°02'28
min. Earth dist.	-4350 Nov 13 j 07:13	18° Υ 32'35	17.76604 AU	behind sun begin	-4344 Jun 10 j 06:29	14° δ 02'14	
direct	-4349 Jan 26 j 17:00	16° Υ 30'36		behind sun end	-4344 Jun 10 j 19:59	14° δ 04'17	
evening set	-4349 May 01 j 06:37	19° Υ 51'24			-4344 Jun 25 j 21:40	15° δ	
max. Earth dist.	-4349 May 16 j 23:16	20° Υ 48'05	19.73573 AU	morning rise	-4344 Jun 27 j 03:13	15° δ 04'28	
				retrograde	-4344 Sep 26 j 21:58	18° δ 24'41	
conjunction	-4349 May 18 j 02:34	20° Υ 52'14	-0°17'35	opposition	-4344 Dec 09 j 04:47	16° δ 22'36	0°04'47
minimum elong	-4349 May 18 j 02:34	20° Υ 52'14	0°17'30	min. Earth dist.	-4344 Dec 10 j 08:01	16° δ 19'38	17.46150 AU
morning rise	-4349 Jun 03 j 20:43	21° Υ 52'50			-4343 Jan 12 j 15:41	15° δ	
retrograde	-4349 Sep 04 j 08:36	25° Υ 10'39		direct	-4343 Feb 23 j 02:48	14° δ 16'46	
opposition	-4349 Nov 17 j 01:59	23° Υ 08'27	-0°17'28		-4343 Apr 05 j 00:05	15° δ	
min. Earth dist.	-4349 Nov 18 j 00:29	23° Υ 06'00	17.70660 AU	evening set	-4343 May 29 j 23:59	17° δ 44'25	
direct	-4348 Jan 31 j 13:02	21° Υ 03'44		max. Earth dist.	-4343 Jun 14 j 07:33	18° δ 41'03	19.44127 AU
evening set	-4348 May 05 j 07:57	24° Υ 25'48					
max. Earth dist.	-4348 May 21 j 00:00	25° Υ 22'38	19.67799 AU	conjunction	-4343 Jun 15 j 16:30	18° δ 46'10	0°06'25
				minimum elong	-4343 Jun 15 j 16:30	18° δ 46'10	0°06'33
conjunction	-4348 May 22 j 03:43	25° Υ 26'51	-0°13'48	behind sun begin	-4343 Jun 15 j 10:10	18° δ 45'13	
minimum elong	-4348 May 22 j 03:43	25° Υ 26'51	0°13'44	behind sun end	-4343 Jun 15 j 22:50	18° δ 47'08	
behind sun begin	-4348 May 22 j 00:17	25° Υ 26'20		morning rise	-4343 Jul 02 j 05:36	19° δ 47'27	
behind sun end	-4348 May 22 j 07:09	25° Υ 27'22		retrograde	-4343 Oct 01 j 20:26	23° δ 08'01	
morning rise	-4348 Jun 07 j 21:05	26° Υ 27'36		opposition	-4343 Dec 14 j 02:49	21° δ 05'55	0°09'20
retrograde	-4348 Sep 08 j 05:14	29° Υ 45'57		min. Earth dist.	-4343 Dec 15 j 06:32	21° δ 02'54	17.42278 AU
opposition	-4348 Nov 20 j 20:07	27° Υ 43'46	-0°13'11	direct	-4342 Feb 28 j 04:27	18° δ 59'52	
min. Earth dist.	-4348 Nov 21 j 20:16	27° Υ 41'08	17.65071 AU	evening set	-4342 Jun 04 j 04:20	22° δ 28'24	
direct	-4347 Feb 04 j 08:09	25° Υ 38'48		max. Earth dist.	-4342 Jun 19 j 11:56	23° δ 25'12	19.40437 AU
evening set	-4347 May 10 j 09:54	29° Υ 02'06					
max. Earth dist.	-4347 May 25 j 23:35	29° Υ 58'48	19.62396 AU	conjunction	-4342 Jun 20 j 20:08	23° δ 30'13	0°10'27
	-4347 May 26 j 07:23	0° δ		minimum elong	-4342 Jun 20 j 20:08	23° δ 30'13	0°10'37
conjunction	-4347 May 27 j 05:09	0° δ 03'20	-0°09'55	behind sun begin	-4342 Jun 20 j 14:57	23° δ 29'26	
minimum elong	-4347 May 27 j 05:09	0° δ 03'20	0°09'49	behind sun end	-4342 Jun 21 j 01:19	23° δ 31'00	
behind sun begin	-4347 May 26 j 23:40	0° δ 02'31		morning rise	-4342 Jul 07 j 08:01	24° δ 31'31	
behind sun end	-4347 May 27 j 10:38	0° δ 04'09		retrograde	-4342 Oct 06 j 19:47	27° δ 52'23	
morning rise	-4347 Jun 12 j 22:00	1° δ 04'15		opposition	-4342 Dec 19 j 01:41	25° δ 50'17	0°13'50
retrograde	-4347 Sep 13 j 03:08	4° δ 23'07		min. Earth dist.	-4342 Dec 20 j 05:35	25° δ 47'15	17.38781 AU
opposition	-4347 Nov 25 j 14:55	2° δ 20'56	-0°08'48	direct	-4341 Mar 05 j 06:42	23° δ 44'03	
min. Earth dist.	-4347 Nov 26 j 15:23	2° δ 18'16	17.59846 AU	evening set	-4341 Jun 09 j 08:59	27° δ 13'19	
direct	-4346 Feb 09 j 05:45	0° δ 15'44					
evening set	-4346 May 15 j 12:36	3° δ 40'14		conjunction	-4341 Jun 25 j 23:37	28° δ 15'10	0°14'27
max. Earth dist.	-4346 May 31 j 01:54	4° δ 37'06	19.57330 AU	minimum elong	-4341 Jun 25 j 23:37	28° δ 15'10	0°14'37
				behind sun begin	-4341 Jun 25 j 20:54	28° δ 14'45	
conjunction	-4346 Jun 01 j 07:30	4° δ 41'39	-0°05'57	behind sun end	-4341 Jun 26 j 02:21	28° δ 15'35	
minimum elong	-4346 Jun 01 j 07:29	4° δ 41'39	0°05'50	max. Earth dist.	-4341 Jun 24 j 14:20	28° δ 09'58	19.37153 AU
behind sun begin	-4346 Jun 01 j 01:01	4° δ 40'41		morning rise	-4341 Jul 12 j 10:26	29° δ 16'29	
behind sun end	-4346 Jun 01 j 13:58	4° δ 42'37			-4341 Jul 24 j 14:28	0° Π	
morning rise	-4346 Jun 17 j 23:22	5° δ 42'41		retrograde	-4341 Oct 11 j 18:41	2° Π 37'36	
retrograde	-4346 Sep 18 j 01:06	9° δ 02'02		opposition	-4341 Dec 24 j 01:12	0° Π 35'29	0°18'15
opposition	-4346 Nov 30 j 10:39	6° δ 59'55	-0°04'19	min. Earth dist.	-4341 Dec 25 j 05:25	0° Π 32'24	17.35736 AU
min. Earth dist.	-4346 Dec 01 j 12:35	6° δ 57'05	17.54950 AU		-4340 Jan 06 j 18:50	30° δ	
direct	-4345 Feb 14 j 03:06	4° δ 54'29		direct	-4340 Mar 09 j 09:04	28° δ 29'03	
evening set	-4345 May 20 j 16:06	8° δ 20'08			-4340 May 08 j 15:32	0° Π	
max. Earth dist.	-4345 Jun 05 j 02:33	9° δ 16'48	19.52600 AU	evening set	-4340 Jun 13 j 13:30	1° Π 58'57	
				max. Earth dist.	-4340 Jun 28 j 19:08	2° Π 55'47	19.34350 AU

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 6

Attention, astronomical year style is used: The year -4340 in astronomical counting style is the year 4341 BCE in historical counting style.

conjunction	-4340 Jun 30 j 03:12	3°II00'49	0°18'21	opposition	-4333 Jan 26 j 10:53	4°☾00'32	0°44'10
minimum elong	-4340 Jun 30 j 03:12	3°II00'49	0°18'31	min. Earth dist.	-4333 Jan 27 j 07:49	3°☾58'16	17.30881 AU
morning rise	-4340 Jul 16 j 12:44	4°II02'07		direct	-4333 Apr 13 j 10:47	1°☾54'08	
retrograde	-4340 Oct 15 j 19:11	7°II23'25		evening set	-4333 Jul 18 j 15:43	5°☾25'17	
opposition	-4340 Dec 28 j 01:14	5°II21'17	0°22'32				
min. Earth dist.	-4340 Dec 29 j 04:43	5°II18'17	17.33184 AU	conjunction	-4333 Aug 03 j 20:34	6°☾26'25	0°40'51
direct	-4339 Mar 14 j 12:28	3°II14'43		minimum elong	-4333 Aug 03 j 20:34	6°☾26'25	0°41'02
evening set	-4339 Jun 18 j 17:57	6°II45'07		max. Earth dist.	-4333 Aug 02 j 21:56	6°☾22'50	19.31688 AU
max. Earth dist.	-4339 Jul 03 j 22:18	7°II41'54	19.32068 AU	morning rise	-4333 Aug 19 j 21:05	7°☾26'55	
				retrograde	-4333 Nov 18 j 19:10	10°☾48'29	
conjunction	-4339 Jul 05 j 06:28	7°II46'57	0°22'08	opposition	-4332 Jan 31 j 13:49	8°☾46'49	0°46'50
minimum elong	-4339 Jul 05 j 06:27	7°II46'57	0°22'20	min. Earth dist.	-4332 Feb 01 j 10:14	8°☾44'37	17.32711 AU
morning rise	-4339 Jul 21 j 14:49	8°II48'13		direct	-4332 Apr 17 j 13:52	6°☾40'39	
retrograde	-4339 Oct 20 j 18:27	12°II09'41		evening set	-4332 Jul 22 j 18:02	10°☾11'31	
opposition	-4338 Jan 02 j 01:50	10°II07'31	0°26'41				
min. Earth dist.	-4338 Jan 03 j 05:28	10°II04'31	17.31194 AU	conjunction	-4332 Aug 07 j 21:25	11°☾12'26	0°43'06
direct	-4338 Mar 19 j 14:27	8°II00'49		minimum elong	-4332 Aug 07 j 21:25	11°☾12'26	0°43'18
evening set	-4338 Jun 23 j 22:20	11°II31'37		max. Earth dist.	-4332 Aug 06 j 23:45	11°☾09'00	19.33796 AU
max. Earth dist.	-4338 Jul 09 j 02:56	12°II28'34	19.30373 AU	morning rise	-4332 Aug 23 j 20:52	12°☾12'45	
				retrograde	-4332 Nov 22 j 20:18	15°☾34'11	
conjunction	-4338 Jul 10 j 09:40	12°II33'25	0°25'45	opposition	-4331 Feb 04 j 16:37	13°☾32'39	0°49'11
minimum elong	-4338 Jul 10 j 09:40	12°II33'25	0°25'57	min. Earth dist.	-4331 Feb 05 j 10:34	13°☾30'44	17.35074 AU
morning rise	-4338 Jul 26 j 16:44	13°II34'36		direct	-4331 Apr 22 j 19:47	11°☾26'44	
retrograde	-4338 Oct 25 j 19:53	16°II56'10		evening set	-4331 Jul 27 j 19:35	14°☾57'12	
opposition	-4337 Jan 07 j 02:47	14°II54'01	0°30'39				
min. Earth dist.	-4337 Jan 08 j 04:54	14°II51'10	17.29801 AU	conjunction	-4331 Aug 12 j 21:50	15°☾57'54	0°45'03
direct	-4337 Mar 24 j 18:58	12°II47'14		minimum elong	-4331 Aug 12 j 21:50	15°☾57'54	0°45'15
evening set	-4337 Jun 29 j 02:33	16°II18'20		max. Earth dist.	-4331 Aug 12 j 03:01	15°☾54'55	19.36396 AU
max. Earth dist.	-4337 Jul 14 j 06:51	17°II15'21	19.29301 AU	morning rise	-4331 Aug 28 j 19:57	16°☾58'01	
				retrograde	-4331 Nov 27 j 18:38	20°☾19'15	
conjunction	-4337 Jul 15 j 12:36	17°II20'03	0°29'13	opposition	-4330 Feb 09 j 19:45	18°☾17'52	0°51'11
minimum elong	-4337 Jul 15 j 12:36	17°II20'03	0°29'25	min. Earth dist.	-4330 Feb 10 j 12:57	18°☾16'02	17.37897 AU
morning rise	-4337 Jul 31 j 18:19	18°II21'08		direct	-4330 Apr 27 j 23:22	16°☾12'12	
retrograde	-4337 Oct 30 j 18:50	21°II42'46		evening set	-4330 Aug 01 j 20:42	19°☾42'09	
opposition	-4336 Jan 12 j 04:26	19°II40'39	0°34'24				
min. Earth dist.	-4336 Jan 13 j 06:20	19°II37'50	17.29072 AU	conjunction	-4330 Aug 17 j 21:29	20°☾42'36	0°46'41
direct	-4336 Mar 28 j 20:52	17°II33'52		minimum elong	-4330 Aug 17 j 21:29	20°☾42'36	0°46'53
evening set	-4336 Jul 03 j 06:17	21°II05'09		max. Earth dist.	-4330 Aug 17 j 03:29	20°☾39'45	19.39442 AU
max. Earth dist.	-4336 Jul 18 j 10:47	22°II02'16	19.28913 AU	morning rise	-4330 Sep 02 j 18:37	21°☾42'30	
				retrograde	-4330 Dec 02 j 18:47	25°☾03'30	
conjunction	-4336 Jul 19 j 15:02	22°II06'45	0°32'28	opposition	-4329 Feb 14 j 22:43	23°☾02'14	0°52'49
minimum elong	-4336 Jul 19 j 15:02	22°II06'45	0°32'40	min. Earth dist.	-4329 Feb 15 j 13:27	23°☾00'40	17.41150 AU
morning rise	-4336 Aug 04 j 19:31	23°II07'43		direct	-4329 May 03 j 04:16	20°☾56'50	
retrograde	-4336 Nov 03 j 20:32	26°II29'24		evening set	-4329 Aug 06 j 20:55	24°☾26'08	
opposition	-4335 Jan 16 j 06:16	24°II27'20	0°37'55				
min. Earth dist.	-4335 Jan 17 j 05:57	24°II24'46	17.29015 AU	conjunction	-4329 Aug 22 j 20:37	25°☾26'20	0°48'00
direct	-4335 Apr 03 j 02:15	22°II20'38		minimum elong	-4329 Aug 22 j 20:37	25°☾26'20	0°48'12
evening set	-4335 Jul 08 j 09:49	25°II51'58		max. Earth dist.	-4329 Aug 22 j 05:44	25°☾23'59	19.42894 AU
				morning rise	-4329 Sep 07 j 16:30	26°☾26'00	
conjunction	-4335 Jul 24 j 17:20	26°II53'26	0°35'31	retrograde	-4329 Dec 07 j 17:00	29°☾46'43	
minimum elong	-4335 Jul 24 j 17:20	26°II53'26	0°35'42	opposition	-4328 Feb 20 j 01:45	27°☾45'34	0°54'06
max. Earth dist.	-4335 Jul 23 j 14:57	26°II49'15	19.29195 AU	min. Earth dist.	-4328 Feb 20 j 15:12	27°☾44'08	17.44789 AU
morning rise	-4335 Aug 09 j 20:25	27°II54'16		direct	-4328 May 07 j 07:48	25°☾40'26	
	-4335 Sep 16 j 22:56	0°☾		evening set	-4328 Aug 10 j 20:22	29°☾08'57	
retrograde	-4335 Nov 08 j 19:09	1°☾15'56			-4328 Aug 24 j 10:30	0°☾	
	-4334 Jan 03 j 04:09	30°☾II					
opposition	-4334 Jan 21 j 08:25	29°II13'59	0°41'11	conjunction	-4328 Aug 26 j 18:43	0°☾08'53	0°48'59
min. Earth dist.	-4334 Jan 22 j 07:48	29°II11'28	17.29632 AU	minimum elong	-4328 Aug 26 j 18:43	0°☾08'53	0°49'09
direct	-4334 Apr 08 j 04:42	27°II07'25		max. Earth dist.	-4328 Aug 26 j 04:48	0°☾06'41	19.46728 AU
	-4334 Jul 02 j 20:46	0°☾		morning rise	-4328 Sep 11 j 13:47	1°☾08'19	
evening set	-4334 Jul 13 j 13:05	0°☾38'44		retrograde	-4328 Dec 11 j 15:58	4°☾28'42	
				opposition	-4327 Feb 24 j 04:22	2°☾27'37	0°55'00
conjunction	-4334 Jul 29 j 19:10	1°☾40'02	0°38'18	min. Earth dist.	-4327 Feb 24 j 15:30	2°☾26'27	17.48807 AU
minimum elong	-4334 Jul 29 j 19:10	1°☾40'02	0°38'31	direct	-4327 May 12 j 10:41	0°☾22'46	
max. Earth dist.	-4334 Jul 28 j 17:58	1°☾36'02	19.30143 AU	evening set	-4327 Aug 15 j 18:50	3°☾50'25	
morning rise	-4334 Aug 14 j 21:07	2°☾40'43					
retrograde	-4334 Nov 13 j 20:38	6°☾02'20		conjunction	-4327 Aug 31 j 16:13	4°☾50'04	0°49'38

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 7

Attention, astronomical year style is used: The year -4327 in astronomical counting style is the year 4328 BCE in historical counting style.

minimum elong	-4327 Aug 31 j 16:13	4°Ω50'04	0°49'48	max. Earth dist.	-4321 Sep 28 j 09:42	2°♊22'01	19.83958 AU
max. Earth dist.	-4327 Aug 31 j 05:32	4°Ω48'23	19.50926 AU	morning rise	-4321 Oct 13 j 19:44	3°♊18'59	
morning rise	-4327 Sep 16 j 10:13	5°Ω49'15		retrograde	-4320 Jan 13 j 14:33	6°♊36'05	
retrograde	-4327 Dec 16 j 13:42	9°Ω09'14		opposition	-4320 Mar 29 j 10:35	4°♊35'34	0°51'13
opposition	-4326 Mar 01 j 06:37	7°Ω08'14	0°55'31	min. Earth dist.	-4320 Mar 29 j 04:40	4°♊36'10	17.87258 AU
min. Earth dist.	-4326 Mar 01 j 15:56	7°Ω07'15	17.53173 AU	direct	-4320 Jun 14 j 16:56	2°♊33'12	
direct	-4326 May 17 j 13:46	5°Ω03'40		evening set	-4320 Sep 16 j 05:15	5°♊52'47	
evening set	-4326 Aug 20 j 16:31	8°Ω30'20					
				conjunction	-4320 Oct 01 j 20:34	6°♊50'22	0°45'16
conjunction	-4326 Sep 05 j 12:41	9°Ω29'42	0°49'57	minimum elong	-4320 Oct 01 j 20:34	6°♊50'22	0°45'22
minimum elong	-4326 Sep 05 j 12:41	9°Ω29'42	0°50'07	max. Earth dist.	-4320 Oct 02 j 03:05	6°♊51'22	19.90614 AU
max. Earth dist.	-4326 Sep 05 j 03:21	9°Ω28'14	19.55484 AU	morning rise	-4320 Oct 17 j 10:36	7°♊47'45	
morning rise	-4326 Sep 21 j 05:59	10°Ω28'38		retrograde	-4319 Jan 17 j 07:53	11°♊04'20	
retrograde	-4326 Dec 21 j 11:31	13°Ω48'12		opposition	-4319 Apr 03 j 09:16	9°♊03'56	0°49'22
opposition	-4325 Mar 06 j 08:38	11°Ω47'14	0°55'41	min. Earth dist.	-4319 Apr 03 j 01:57	9°♊04'42	17.94015 AU
min. Earth dist.	-4325 Mar 06 j 15:42	11°Ω46'30	17.57920 AU	direct	-4319 Jun 19 j 13:23	7°♊02'03	
direct	-4325 May 22 j 14:55	9°Ω42'56		evening set	-4319 Sep 20 j 20:11	10°♊20'21	
evening set	-4325 Aug 25 j 12:55	13°Ω08'33					
				conjunction	-4319 Oct 06 j 10:59	11°♊17'38	0°43'30
conjunction	-4325 Sep 10 j 08:12	14°Ω07'38	0°49'56	minimum elong	-4319 Oct 06 j 10:59	11°♊17'38	0°43'35
minimum elong	-4325 Sep 10 j 08:12	14°Ω07'38	0°50'05	max. Earth dist.	-4319 Oct 06 j 19:50	11°♊18'59	19.97447 AU
max. Earth dist.	-4325 Sep 10 j 02:20	14°Ω06'42	19.60422 AU	morning rise	-4319 Oct 22 j 00:45	12°♊14'46	
	-4325 Sep 24 j 07:38	15°Ω		retrograde	-4318 Jan 22 j 01:31	15°♊30'49	
morning rise	-4325 Sep 26 j 00:38	15°Ω06'18		opposition	-4318 Apr 08 j 07:07	13°♊30'34	0°47'14
retrograde	-4325 Dec 26 j 08:43	18°Ω25'24		min. Earth dist.	-4318 Apr 07 j 20:42	13°♊31'39	18.00892 AU
opposition	-4324 Mar 10 j 10:11	16°Ω24'29	0°55'28	direct	-4318 Jun 24 j 11:17	11°♊29'08	
min. Earth dist.	-4324 Mar 10 j 14:39	16°Ω24'01	17.63040 AU	evening set	-4318 Sep 25 j 10:21	14°♊46'08	
	-4324 Apr 16 j 08:42	15°♊Ω					
direct	-4324 May 26 j 17:24	14°Ω20'31		conjunction	-4318 Oct 11 j 00:40	15°♊43'08	0°41'28
	-4324 Jul 04 j 21:38	15°Ω		minimum elong	-4318 Oct 11 j 00:40	15°♊43'08	0°41'31
evening set	-4324 Aug 29 j 08:34	17°Ω44'59		max. Earth dist.	-4318 Oct 11 j 11:43	15°♊44'50	20.04356 AU
				morning rise	-4318 Oct 26 j 14:16	16°♊40'02	
conjunction	-4324 Sep 14 j 02:47	18°Ω43'46	0°49'36	retrograde	-4317 Jan 26 j 17:30	19°♊55'33	
minimum elong	-4324 Sep 14 j 02:47	18°Ω43'46	0°49'45	opposition	-4317 Apr 13 j 04:36	17°♊55'27	0°44'50
max. Earth dist.	-4324 Sep 13 j 22:46	18°Ω43'08	19.65742 AU	min. Earth dist.	-4317 Apr 12 j 17:11	17°♊56'37	18.07825 AU
morning rise	-4324 Sep 29 j 18:39	19°Ω42'11		direct	-4317 Jun 29 j 05:45	15°♊54'27	
retrograde	-4324 Dec 30 j 05:01	23°Ω00'48		evening set	-4317 Sep 29 j 23:35	19°♊10'08	
opposition	-4323 Mar 15 j 11:03	20°Ω59'56	0°54'54				
min. Earth dist.	-4323 Mar 15 j 13:25	20°Ω59'41	17.68566 AU	conjunction	-4317 Oct 15 j 13:33	20°♊06'52	0°39'13
direct	-4323 May 31 j 17:10	18°Ω56'18		minimum elong	-4317 Oct 15 j 13:33	20°♊06'52	0°39'16
evening set	-4323 Sep 03 j 03:08	22°Ω19'37		max. Earth dist.	-4317 Oct 16 j 02:24	20°♊08'49	20.11288 AU
				morning rise	-4317 Oct 31 j 03:07	21°♊03'32	
conjunction	-4323 Sep 18 j 20:37	23°Ω18'05	0°48'58	retrograde	-4316 Jan 31 j 10:28	24°♊18'31	
minimum elong	-4323 Sep 18 j 20:37	23°Ω18'05	0°49'05	min. Earth dist.	-4316 Apr 16 j 10:52	22°♊19'58	18.14727 AU
max. Earth dist.	-4323 Sep 18 j 19:49	23°Ω17'58	19.71463 AU	opposition	-4316 Apr 17 j 01:10	22°♊18'30	0°42'11
morning rise	-4323 Oct 04 j 11:48	24°Ω16'14		direct	-4316 Jul 03 j 01:51	20°♊17'56	
retrograde	-4322 Jan 04 j 00:56	27°Ω34'20		evening set	-4316 Oct 03 j 12:10	23°♊32'19	
opposition	-4322 Mar 20 j 11:26	25°Ω33'34	0°54'00				
min. Earth dist.	-4322 Mar 20 j 10:42	25°Ω33'39	17.74462 AU	conjunction	-4316 Oct 19 j 01:52	24°♊28'46	0°36'44
direct	-4322 Jun 05 j 18:47	23°Ω30'21		minimum elong	-4316 Oct 19 j 01:52	24°♊28'46	0°36'45
evening set	-4322 Sep 07 j 20:47	26°Ω52'26		max. Earth dist.	-4316 Oct 19 j 16:44	24°♊31'02	20.18139 AU
				morning rise	-4316 Nov 03 j 15:26	25°♊25'13	
conjunction	-4322 Sep 23 j 13:22	27°Ω50'36	0°48'01	retrograde	-4315 Feb 04 j 00:57	28°♊39'38	
minimum elong	-4322 Sep 23 j 13:22	27°Ω50'36	0°48'08	opposition	-4315 Apr 21 j 20:59	26°♊39'44	0°39'18
max. Earth dist.	-4322 Sep 23 j 14:43	27°Ω50'49	19.77542 AU	min. Earth dist.	-4315 Apr 21 j 06:06	26°♊41'15	18.21529 AU
morning rise	-4322 Oct 09 j 04:06	28°Ω48'29		direct	-4315 Jul 07 j 18:27	24°♊39'34	
	-4322 Oct 29 j 19:27	0°♊		evening set	-4315 Oct 07 j 23:58	27°♊52'38	
retrograde	-4321 Jan 08 j 19:52	2°♊06'07					
opposition	-4321 Mar 25 j 11:24	0°♊05'27	0°52'46	conjunction	-4315 Oct 23 j 13:26	28°♊48'50	0°34'04
min. Earth dist.	-4321 Mar 25 j 08:44	0°♊05'43	17.80717 AU	minimum elong	-4315 Oct 23 j 13:26	28°♊48'50	0°34'05
	-4321 Mar 27 j 15:50	30°♊Ω		max. Earth dist.	-4315 Oct 24 j 05:33	28°♊51'16	20.24876 AU
direct	-4321 Jun 10 j 16:59	28°Ω02'38		morning rise	-4315 Nov 08 j 03:08	29°♊45'04	
	-4321 Aug 19 j 01:44	0°♊			-4315 Nov 12 j 08:52	0°♊	
evening set	-4321 Sep 12 j 13:28	1°♊23'29		retrograde	-4314 Feb 08 j 17:01	2°♊58'56	
				opposition	-4314 Apr 26 j 16:02	0°♊59'05	0°36'13
conjunction	-4321 Sep 28 j 05:26	2°♊21'21	0°46'47	min. Earth dist.	-4314 Apr 25 j 22:29	1°♊00'52	18.28182 AU
minimum elong	-4321 Sep 28 j 05:26	2°♊21'21	0°46'53		-4314 May 21 j 23:59	30°♊♊	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 8

Attention, astronomical year style is used: The year -4314 in astronomical counting style is the year 4315 BCE in historical counting style.

direct	-4314 Jul 12 j 12:49	28° <u>17</u> 59'16		minimum elong	-4308 Nov 21 j 03:09	28° <u>17</u> 37	0°11'34
	-4314 Aug 30 j 14:39	0° <u>1</u>		behind sun begin	-4308 Nov 20 j 22:24	28° <u>16</u> 56	
evening set	-4314 Oct 12 j 10:48	2° <u>11</u> '03		behind sun end	-4308 Nov 21 j 07:54	28° <u>18</u> '18	
				max. Earth dist.	-4308 Nov 22 j 06:37	28° <u>21</u> '40	20.67554 AU
conjunction	-4314 Oct 28 j 00:12	3° <u>1</u> 07'00	0°31'13	morning rise	-4308 Dec 06 j 19:35	29° <u>12</u> '43	
minimum elong	-4314 Oct 28 j 00:12	3° <u>1</u> 07'00	0°31'13		-4308 Dec 20 j 22:43	0° <u>1</u>	
max. Earth dist.	-4314 Oct 28 j 18:25	3° <u>1</u> 09'45	20.31436 AU	retrograde	-4307 Mar 10 j 07:27	2° <u>1</u> 22'57	
morning rise	-4314 Nov 12 j 14:02	4° <u>1</u> 03'02		min. Earth dist.	-4307 May 26 j 03:47	0° <u>1</u> 25'59	18.70340 AU
retrograde	-4313 Feb 13 j 06:07	7° <u>1</u> 16'20		opposition	-4307 May 27 j 06:20	0° <u>1</u> 23'18	0°10'53
opposition	-4313 May 01 j 10:29	5° <u>1</u> 16'31	0°32'57		-4307 Jun 05 j 23:55	30° <u>1</u>	
min. Earth dist.	-4313 Apr 30 j 16:25	5° <u>1</u> 18'21	18.34658 AU	direct	-4307 Aug 11 j 11:37	28° <u>1</u> 25'41	
direct	-4313 Jul 17 j 04:07	3° <u>1</u> 17'03			-4307 Oct 12 j 15:50	0° <u>1</u>	
evening set	-4313 Oct 16 j 20:57	6° <u>1</u> 27'32		evening set	-4307 Nov 09 j 19:10	1° <u>1</u> 29'25	
conjunction	-4313 Nov 01 j 10:18	7° <u>1</u> 23'15	0°28'13	conjunction	-4307 Nov 25 j 09:51	2° <u>1</u> 24'03	0°08'09
minimum elong	-4313 Nov 01 j 10:18	7° <u>1</u> 23'15	0°28'12	minimum elong	-4307 Nov 25 j 09:51	2° <u>1</u> 24'03	0°08'04
max. Earth dist.	-4313 Nov 02 j 05:34	7° <u>1</u> 26'09	20.37830 AU	behind sun begin	-4307 Nov 25 j 03:59	2° <u>1</u> 23'13	
morning rise	-4313 Nov 17 j 00:30	8° <u>1</u> 19'06		behind sun end	-4307 Nov 25 j 15:42	2° <u>1</u> 24'54	
retrograde	-4312 Feb 17 j 20:46	11° <u>1</u> 31'50		max. Earth dist.	-4307 Nov 26 j 13:36	2° <u>1</u> 28'08	20.73030 AU
min. Earth dist.	-4312 May 04 j 07:13	9° <u>1</u> 34'06	18.40967 AU	morning rise	-4307 Dec 11 j 03:01	3° <u>1</u> 19'03	
opposition	-4312 May 05 j 03:44	9° <u>1</u> 32'01	0°29'32	retrograde	-4306 Mar 14 j 19:40	6° <u>1</u> 28'54	
direct	-4312 Jul 20 j 20:30	7° <u>1</u> 32'51		opposition	-4306 May 31 j 19:04	4° <u>1</u> 29'19	0°06'58
evening set	-4312 Oct 20 j 06:13	10° <u>1</u> 42'04		min. Earth dist.	-4306 May 30 j 14:52	4° <u>1</u> 32'09	18.75704 AU
				direct	-4306 Aug 15 j 21:30	2° <u>1</u> 32'00	
conjunction	-4312 Nov 04 j 19:41	11° <u>1</u> 37'35	0°25'05	evening set	-4306 Nov 14 j 01:00	5° <u>1</u> 34'50	
minimum elong	-4312 Nov 04 j 19:41	11° <u>1</u> 37'35	0°25'04				
max. Earth dist.	-4312 Nov 05 j 17:10	11° <u>1</u> 40'48	20.44048 AU	conjunction	-4306 Nov 29 j 16:13	6° <u>1</u> 29'21	0°04'38
morning rise	-4312 Nov 20 j 10:10	12° <u>1</u> 33'15		minimum elong	-4306 Nov 29 j 16:13	6° <u>1</u> 29'21	0°04'32
retrograde	-4311 Feb 21 j 08:38	15° <u>1</u> 45'25		behind sun begin	-4306 Nov 29 j 09:48	6° <u>1</u> 28'26	
opposition	-4311 May 09 j 20:20	13° <u>1</u> 45'37	0°25'59	behind sun end	-4306 Nov 29 j 22:39	6° <u>1</u> 30'16	
min. Earth dist.	-4311 May 08 j 23:18	13° <u>1</u> 47'45	18.47112 AU	max. Earth dist.	-4306 Nov 30 j 21:50	6° <u>1</u> 33'41	20.78254 AU
direct	-4311 Jul 25 j 10:13	11° <u>1</u> 46'45		morning rise	-4306 Dec 15 j 09:59	7° <u>1</u> 24'16	
evening set	-4311 Oct 24 j 14:47	14° <u>1</u> 54'45		retrograde	-4305 Mar 19 j 05:00	10° <u>1</u> 33'44	
				min. Earth dist.	-4305 Jun 04 j 02:55	8° <u>1</u> 37'05	18.80784 AU
conjunction	-4311 Nov 09 j 04:17	15° <u>1</u> 50'03	0°21'51	opposition	-4305 Jun 05 j 07:13	8° <u>1</u> 34'15	0°03'03
minimum elong	-4311 Nov 09 j 04:17	15° <u>1</u> 50'03	0°21'47	direct	-4305 Aug 20 j 07:44	6° <u>1</u> 37'14	
max. Earth dist.	-4311 Nov 10 j 02:43	15° <u>1</u> 53'23	20.50124 AU	evening set	-4305 Nov 18 j 06:45	9° <u>1</u> 39'13	
morning rise	-4311 Nov 24 j 19:14	16° <u>1</u> 45'33					
retrograde	-4310 Feb 25 j 21:48	19° <u>1</u> 57'12		conjunction	-4305 Dec 03 j 22:23	10° <u>1</u> 33'38	0°01'03
opposition	-4310 May 14 j 11:59	17° <u>1</u> 57'24	0°22'19	minimum elong	-4305 Dec 03 j 22:24	10° <u>1</u> 33'38	0°00'57
min. Earth dist.	-4310 May 13 j 12:32	17° <u>1</u> 59'46	18.53126 AU	behind sun begin	-4305 Dec 03 j 15:52	10° <u>1</u> 32'42	
direct	-4310 Jul 30 j 00:20	15° <u>1</u> 58'49		behind sun end	-4305 Dec 04 j 04:56	10° <u>1</u> 34'33	
evening set	-4310 Oct 28 j 22:41	19° <u>1</u> 05'40		max. Earth dist.	-4305 Dec 05 j 03:48	10° <u>1</u> 37'55	20.83179 AU
				morning rise	-4305 Dec 19 j 17:01	11° <u>1</u> 28'27	
conjunction	-4310 Nov 13 j 12:26	20° <u>1</u> 00'47	0°18'31	desc. node	-4304 Mar 19 j 03:33	14° <u>1</u> 37'17	
minimum elong	-4310 Nov 13 j 12:26	20° <u>1</u> 00'47	0°18'28	retrograde	-4304 Mar 22 j 16:38	14° <u>1</u> 37'35	
max. Earth dist.	-4310 Nov 14 j 13:10	20° <u>1</u> 04'27	20.56067 AU	opposition	-4304 Jun 08 j 18:31	12° <u>1</u> 38'10	-0°00'53
morning rise	-4310 Nov 29 j 03:44	20° <u>1</u> 56'08		min. Earth dist.	-4304 Jun 07 j 13:18	12° <u>1</u> 41'06	18.85540 AU
retrograde	-4309 Mar 02 j 08:51	24° <u>1</u> 07'16		direct	-4304 Aug 23 j 16:33	10° <u>1</u> 41'25	
min. Earth dist.	-4309 May 18 j 02:53	22° <u>1</u> 09'56	18.59014 AU	evening set	-4304 Nov 21 j 12:11	13° <u>1</u> 42'38	
opposition	-4309 May 19 j 02:57	22° <u>1</u> 07'30	0°18'34				
direct	-4309 Aug 03 j 12:41	20° <u>1</u> 09'14		conjunction	-4304 Dec 07 j 04:30	14° <u>1</u> 36'58	-0°02'35
evening set	-4309 Nov 02 j 05:59	23° <u>1</u> 14'58		minimum elong	-4304 Dec 07 j 04:29	14° <u>1</u> 36'58	0°02'44
				behind sun begin	-4304 Dec 06 j 21:56	14° <u>1</u> 36'03	
conjunction	-4309 Nov 17 j 19:56	24° <u>1</u> 09'54	0°15'07	behind sun end	-4304 Dec 07 j 11:02	14° <u>1</u> 37'54	
minimum elong	-4309 Nov 17 j 19:57	24° <u>1</u> 09'54	0°15'02	max. Earth dist.	-4304 Dec 08 j 11:14	14° <u>1</u> 41'26	20.87729 AU
behind sun begin	-4309 Nov 17 j 17:21	24° <u>1</u> 09'32			-4304 Dec 13 j 18:53	15° <u>1</u>	
behind sun end	-4309 Nov 17 j 22:32	24° <u>1</u> 10'17		morning rise	-4304 Dec 22 j 23:45	15° <u>1</u> 31'44	
max. Earth dist.	-4309 Nov 18 j 21:22	24° <u>1</u> 13'40	20.61893 AU	retrograde	-4303 Mar 27 j 01:01	18° <u>1</u> 40'32	
morning rise	-4309 Dec 03 j 11:54	25° <u>1</u> 05'08		min. Earth dist.	-4303 Jun 12 j 00:26	16° <u>1</u> 44'06	18.89883 AU
retrograde	-4308 Mar 05 j 21:25	28° <u>1</u> 15'49		opposition	-4303 Jun 13 j 05:23	16° <u>1</u> 41'12	-0°04'47
opposition	-4308 May 22 j 17:02	26° <u>1</u> 16'05	0°14'45		-4303 Aug 03 j 04:21	15° <u>1</u>	
min. Earth dist.	-4308 May 21 j 14:52	26° <u>1</u> 18'43	18.64770 AU	direct	-4303 Aug 28 j 01:22	14° <u>1</u> 44'41	
direct	-4308 Aug 07 j 00:18	24° <u>1</u> 18'08			-4303 Sep 21 j 10:39	15° <u>1</u>	
evening set	-4308 Nov 05 j 12:47	27° <u>1</u> 22'50		evening set	-4303 Nov 25 j 17:23	17° <u>1</u> 45'11	
conjunction	-4308 Nov 21 j 03:09	28° <u>1</u> 17'37	0°11'39	conjunction	-4303 Dec 11 j 10:11	18° <u>1</u> 39'26	-0°06'06

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 9

Attention, astronomical year style is used: The year -4303 in astronomical counting style is the year 4304 BCE in historical counting style.

minimum elong	-4303 Dec 11 j 10:11	18° M 39'26	0°06'14	conjunction	-4296 Jan 04 j 19:12	12° 7 37'20	-0°25'41
behind sun begin	-4303 Dec 11 j 03:58	18° M 38'33		minimum elong	-4296 Jan 04 j 19:12	12° 7 37'20	0°25'53
behind sun end	-4303 Dec 11 j 16:24	18° M 40'18		max. Earth dist.	-4296 Jan 06 j 00:04	12° 7 41'27	21.06329 AU
max. Earth dist.	-4303 Dec 12 j 16:15	18° M 43'47	20.91854 AU	morning rise	-4296 Jan 20 j 20:54	13° 7 32'02	
morning rise	-4303 Dec 27 j 06:21	19° M 34'09		retrograde	-4296 Apr 24 j 11:41	16° 7 39'11	
retrograde	-4302 Mar 31 j 11:53	22° M 42'40		opposition	-4296 Jul 11 j 17:59	14° 7 39'34	-0°30'02
min. Earth dist.	-4302 Jun 16 j 10:22	20° M 46'17	18.93779 AU	min. Earth dist.	-4296 Jul 10 j 14:57	14° 7 42'16	19.06879 AU
opposition	-4302 Jun 17 j 15:44	20° M 43'21	-0°08'39	direct	-4296 Sep 25 j 00:19	12° 7 43'27	
direct	-4302 Sep 01 j 09:30	18° M 47'01		evening set	-4296 Dec 23 j 02:15	15° 7 40'40	
evening set	-4302 Nov 29 j 22:27	21° M 46'51					
conjunction	-4302 Dec 15 j 16:01	22° M 41'03	-0°09'33	conjunction	-4295 Jan 08 j 00:44	16° 7 34'50	-0°28'34
minimum elong	-4302 Dec 15 j 16:01	22° M 41'03	0°09'43	minimum elong	-4295 Jan 08 j 00:44	16° 7 34'50	0°28'45
behind sun begin	-4302 Dec 15 j 10:35	22° M 40'17		max. Earth dist.	-4295 Jan 09 j 06:11	16° 7 39'02	21.07237 AU
behind sun end	-4302 Dec 15 j 21:27	22° M 41'49		morning rise	-4295 Jan 24 j 03:15	17° 7 29'35	
max. Earth dist.	-4302 Dec 16 j 23:03	22° M 45'32	20.95493 AU	retrograde	-4295 Apr 28 j 19:07	20° 7 36'38	
morning rise	-4302 Dec 31 j 12:55	23° M 35'44		min. Earth dist.	-4295 Jul 14 j 22:14	18° 7 39'38	19.07605 AU
retrograde	-4301 Apr 04 j 19:21	26° M 43'58		opposition	-4295 Jul 16 j 00:47	18° 7 36'58	-0°33'09
min. Earth dist.	-4301 Jun 20 j 20:37	24° M 47'33	18.97164 AU	direct	-4295 Sep 29 j 05:27	16° 7 40'51	
opposition	-4301 Jun 22 j 01:27	24° M 44'40	-0°12'28	evening set	-4295 Dec 27 j 06:50	19° 7 37'55	
direct	-4301 Sep 05 j 17:11	22° M 48'28		conjunction	-4294 Jan 12 j 06:09	20° 7 32'08	-0°31'19
evening set	-4301 Dec 04 j 03:24	25° M 47'42		minimum elong	-4294 Jan 12 j 06:09	20° 7 32'08	0°31'31
conjunction	-4301 Dec 19 j 21:37	26° M 41'50	-0°12'58	max. Earth dist.	-4294 Jan 13 j 10:05	20° 7 36'07	21.07791 AU
minimum elong	-4301 Dec 19 j 21:37	26° M 41'50	0°13'07	morning rise	-4294 Jan 28 j 09:48	21° 7 26'57	
behind sun begin	-4301 Dec 19 j 17:39	26° M 41'17		retrograde	-4294 May 03 j 03:18	24° 7 33'59	
behind sun end	-4301 Dec 20 j 01:35	26° M 42'24		min. Earth dist.	-4294 Jul 19 j 05:28	22° 7 36'53	19.07981 AU
max. Earth dist.	-4301 Dec 21 j 03:31	26° M 46'09	20.98625 AU	opposition	-4294 Jul 20 j 07:22	22° 7 34'17	-0°36'06
morning rise	-4300 Jan 04 j 19:33	27° M 36'30		direct	-4294 Oct 03 j 09:48	20° 7 38'08	
retrograde	-4300 Feb 24 j 21:21	0° 7		evening set	-4294 Dec 31 j 11:44	23° 7 35'08	
retrograde	-4300 Apr 08 j 05:05	0° 7 44'28		conjunction	-4293 Jan 16 j 12:08	24° 7 29'27	-0°33'56
min. Earth dist.	-4300 May 22 j 16:29	30° R M		minimum elong	-4293 Jan 16 j 12:07	24° 7 29'27	0°34'07
opposition	-4300 Jun 24 j 05:52	28° M 48'00	19.00037 AU	max. Earth dist.	-4293 Jan 17 j 16:25	24° 7 33'28	21.07976 AU
direct	-4300 Jun 25 j 10:39	28° M 45'07	-0°16'12	morning rise	-4293 Feb 01 j 16:38	25° 7 24'21	
evening set	-4300 Sep 09 j 00:26	26° M 49'00		retrograde	-4293 May 07 j 10:53	28° 7 31'22	
retrograde	-4300 Dec 07 j 08:05	29° M 47'41		opposition	-4293 Jul 24 j 13:34	26° 7 31'40	-0°38'54
conjunction	-4300 Dec 10 j 23:21	0° 7		min. Earth dist.	-4293 Jul 23 j 12:27	26° 7 34'12	19.07973 AU
conjunction	-4300 Dec 23 j 03:10	0° 7 41'48	-0°16'17	direct	-4293 Oct 07 j 14:25	24° 7 35'31	
minimum elong	-4300 Dec 23 j 03:09	0° 7 41'48	0°16'28	evening set	-4292 Jan 04 j 17:00	27° 7 32'33	
max. Earth dist.	-4300 Dec 24 j 09:48	0° 7 46'13	21.01229 AU	conjunction	-4292 Jan 20 j 18:17	28° 7 26'57	-0°36'23
morning rise	-4299 Jan 08 j 01:51	1° 7 36'27		minimum elong	-4292 Jan 20 j 18:17	28° 7 26'57	0°36'35
retrograde	-4299 Apr 12 j 12:08	4° 7 44'09		max. Earth dist.	-4292 Jan 21 j 20:39	28° 7 30'42	21.07783 AU
opposition	-4299 Jun 29 j 19:12	2° 7 44'45	-0°19'50	morning rise	-4292 Feb 05 j 23:57	29° 7 21'57	
min. Earth dist.	-4299 Jun 28 j 15:01	2° 7 47'35	19.02390 AU	retrograde	-4292 Feb 17 j 16:59	0° 7	
direct	-4299 Sep 13 j 07:17	0° 7 48'41		opposition	-4292 May 10 j 19:42	2° 7 29'02	
evening set	-4299 Dec 11 j 12:42	3° 7 46'52		opposition	-4292 Jul 27 j 19:45	0° 7 29'19	-0°41'31
conjunction	-4299 Dec 27 j 08:29	4° 7 40'58	-0°19'32	min. Earth dist.	-4292 Jul 26 j 19:43	0° 7 31'45	19.07578 AU
minimum elong	-4299 Dec 27 j 08:29	4° 7 40'58	0°19'43	direct	-4292 Aug 09 j 00:52	30° R 7	
max. Earth dist.	-4299 Dec 28 j 13:56	4° 7 45'12	21.03358 AU	direct	-4292 Oct 10 j 18:24	28° 7 33'08	
morning rise	-4298 Jan 12 j 08:15	5° 7 35'37		evening set	-4292 Dec 09 j 10:30	0° 7	
retrograde	-4298 Apr 16 j 20:34	8° 7 43'07		conjunction	-4291 Jan 07 j 22:29	1° 7 30'17	
min. Earth dist.	-4298 Jul 02 j 23:21	6° 7 46'26	19.04299 AU	conjunction	-4291 Jan 24 j 00:51	2° 7 24'49	-0°38'40
opposition	-4298 Jul 04 j 03:20	6° 7 43'38	-0°23'22	minimum elong	-4291 Jan 24 j 00:51	2° 7 24'49	0°38'52
direct	-4298 Sep 17 j 13:20	4° 7 47'33		max. Earth dist.	-4291 Jan 25 j 03:15	2° 7 28'34	21.07170 AU
evening set	-4298 Dec 15 j 17:05	7° 7 45'19		morning rise	-4291 Feb 09 j 07:20	3° 7 19'55	
conjunction	-4298 Dec 31 j 13:49	8° 7 39'26	-0°22'40	retrograde	-4291 May 15 j 03:31	6° 7 27'06	
minimum elong	-4298 Dec 31 j 13:49	8° 7 39'26	0°22'51	min. Earth dist.	-4291 Jul 31 j 02:47	4° 7 29'44	19.06739 AU
max. Earth dist.	-4297 Jan 01 j 20:04	8° 7 43'46	21.05042 AU	opposition	-4291 Aug 01 j 01:46	4° 7 27'25	-0°43'56
morning rise	-4297 Jan 16 j 14:25	9° 7 34'06		direct	-4291 Oct 14 j 23:04	2° 7 31'12	
retrograde	-4297 Apr 21 j 03:55	12° 7 41'24		evening set	-4290 Jan 12 j 04:34	5° 7 28'33	
min. Earth dist.	-4297 Jul 07 j 07:28	10° 7 44'36	19.05776 AU	conjunction	-4290 Jan 28 j 07:49	6° 7 23'11	-0°40'46
opposition	-4297 Jul 08 j 10:57	10° 7 41'50	-0°26'46	minimum elong	-4290 Jan 28 j 07:49	6° 7 23'11	0°40'58
direct	-4297 Sep 21 j 19:22	8° 7 45'45		max. Earth dist.	-4290 Jan 29 j 07:53	6° 7 26'36	21.06114 AU
evening set	-4297 Dec 19 j 21:42	11° 7 43'12		morning rise	-4290 Feb 13 j 15:26	7° 7 18'25	

Attention, astronomical year style is used: The year -4290 in astronomical counting style is the year 4291 BCE in historical counting style.

retrograde	-4290 May 19 j 12:42	10° $\overline{3}$ 25'45		evening set	-4283 Feb 09 j 13:00	3° \approx 35'00	
min. Earth dist.	-4290 Aug 04 j 10:25	8° $\overline{3}$ 28'14	19.05447 AU				
opposition	-4290 Aug 05 j 07:48	8° $\overline{3}$ 26'04	-0°46'09	conjunction	-4283 Feb 25 j 23:37	4° \approx 30'57	-0°49'33
direct	-4290 Oct 19 j 02:50	6° $\overline{3}$ 29'46		minimum elong	-4283 Feb 25 j 23:37	4° \approx 30'57	0°49'43
evening set	-4289 Jan 16 j 11:02	9° $\overline{3}$ 27'23		max. Earth dist.	-4283 Feb 26 j 11:40	4° \approx 32'40	20.84558 AU
				morning rise	-4283 Mar 14 j 13:33	5° \approx 27'23	
conjunction	-4289 Feb 01 j 15:27	10° $\overline{3}$ 22'11	-0°42'40	retrograde	-4283 Jun 17 j 07:34	8° \approx 36'19	
minimum elong	-4289 Feb 01 j 15:27	10° $\overline{3}$ 22'11	0°42'53	opposition	-4283 Sep 02 j 02:50	6° \approx 35'55	-0°55'02
max. Earth dist.	-4289 Feb 02 j 15:03	10° $\overline{3}$ 25'32	21.04562 AU	min. Earth dist.	-4283 Sep 01 j 17:18	6° \approx 36'54	18.82251 AU
morning rise	-4289 Feb 17 j 23:55	11° $\overline{3}$ 17'33		direct	-4283 Nov 15 j 15:46	4° \approx 37'56	
retrograde	-4289 May 23 j 21:19	14° $\overline{3}$ 25'03		evening set	-4282 Feb 13 j 23:26	7° \approx 39'10	
opposition	-4289 Aug 09 j 13:48	12° $\overline{3}$ 25'21	-0°48'10				
min. Earth dist.	-4289 Aug 08 j 17:50	12° $\overline{3}$ 27'22	19.03624 AU	conjunction	-4282 Mar 02 j 10:53	8° \approx 35'20	-0°49'52
direct	-4289 Oct 23 j 08:00	10° $\overline{3}$ 28'56		minimum elong	-4282 Mar 02 j 10:53	8° \approx 35'20	0°50'02
evening set	-4288 Jan 20 j 18:14	13° $\overline{3}$ 26'54		max. Earth dist.	-4282 Mar 02 j 19:51	8° \approx 36'37	20.79848 AU
				morning rise	-4282 Mar 19 j 01:48	9° \approx 31'59	
conjunction	-4288 Feb 05 j 23:32	14° $\overline{3}$ 21'51	-0°44'23	retrograde	-4282 Jun 21 j 18:48	12° \approx 41'16	
minimum elong	-4288 Feb 05 j 23:32	14° $\overline{3}$ 21'51	0°44'34	opposition	-4282 Sep 06 j 09:31	10° \approx 40'43	-0°55'15
max. Earth dist.	-4288 Feb 06 j 20:11	14° $\overline{3}$ 24'47	21.02476 AU	min. Earth dist.	-4282 Sep 06 j 02:10	10° \approx 41'29	18.77416 AU
morning rise	-4288 Feb 22 j 09:06	15° $\overline{3}$ 17'22		direct	-4282 Nov 19 j 22:13	8° \approx 42'24	
retrograde	-4288 May 27 j 06:37	18° $\overline{3}$ 25'04		evening set	-4281 Feb 18 j 10:27	11° \approx 44'26	
opposition	-4288 Aug 12 j 19:47	16° $\overline{3}$ 25'18	-0°49'56				
min. Earth dist.	-4288 Aug 12 j 01:51	16° $\overline{3}$ 27'08	19.01265 AU	conjunction	-4281 Mar 06 j 23:03	12° \approx 40'51	-0°49'56
direct	-4288 Oct 26 j 11:55	14° $\overline{3}$ 28'43		minimum elong	-4281 Mar 06 j 23:03	12° \approx 40'51	0°50'04
evening set	-4287 Jan 24 j 01:43	17° $\overline{3}$ 27'05		max. Earth dist.	-4281 Mar 07 j 07:13	12° \approx 42'01	20.74888 AU
				morning rise	-4281 Mar 23 j 14:35	13° \approx 37'44	
conjunction	-4287 Feb 09 j 08:12	18° $\overline{3}$ 22'12	-0°45'52		-4281 Apr 18 j 18:54	15° \approx	
minimum elong	-4287 Feb 09 j 08:12	18° $\overline{3}$ 22'12	0°46'04	retrograde	-4281 Jun 26 j 05:56	16° \approx 47'22	
max. Earth dist.	-4287 Feb 10 j 04:01	18° $\overline{3}$ 25'01	20.99840 AU		-4281 Sep 05 j 08:53	15° \approx	
morning rise	-4287 Feb 25 j 18:34	19° $\overline{3}$ 17'53		opposition	-4281 Sep 10 j 16:30	14° \approx 46'43	-0°55'12
retrograde	-4287 May 31 j 15:46	22° $\overline{3}$ 25'46		min. Earth dist.	-4281 Sep 10 j 10:19	14° \approx 47'22	18.72334 AU
min. Earth dist.	-4287 Aug 16 j 09:23	20° $\overline{3}$ 27'37	18.98352 AU	direct	-4281 Nov 24 j 05:13	12° \approx 48'06	
opposition	-4287 Aug 17 j 01:51	20° $\overline{3}$ 25'56	-0°51'28		-4280 Feb 07 j 05:36	15° \approx	
direct	-4287 Oct 30 j 17:41	18° $\overline{3}$ 29'09		evening set	-4280 Feb 22 j 22:23	15° \approx 50'59	
evening set	-4286 Jan 28 j 09:41	21° $\overline{3}$ 27'56					
				conjunction	-4280 Mar 10 j 11:43	16° \approx 47'39	-0°49'45
conjunction	-4286 Feb 13 j 17:06	22° $\overline{3}$ 23'15	-0°47'09	minimum elong	-4280 Mar 10 j 11:43	16° \approx 47'39	0°49'54
minimum elong	-4286 Feb 13 j 17:05	22° $\overline{3}$ 23'15	0°47'20	max. Earth dist.	-4280 Mar 10 j 16:41	16° \approx 48'22	20.69705 AU
max. Earth dist.	-4286 Feb 14 j 09:51	22° $\overline{3}$ 25'38	20.96680 AU	morning rise	-4280 Mar 27 j 04:06	17° \approx 44'46	
morning rise	-4286 Mar 02 j 04:35	23° $\overline{3}$ 19'06		retrograde	-4280 Jun 29 j 17:31	20° \approx 54'49	
retrograde	-4286 Jun 05 j 01:30	26° $\overline{3}$ 27'14		opposition	-4280 Sep 13 j 23:52	18° \approx 54'04	-0°54'52
opposition	-4286 Aug 21 j 08:03	24° $\overline{3}$ 27'16	-0°52'45	min. Earth dist.	-4280 Sep 13 j 20:00	18° \approx 54'29	18.67054 AU
min. Earth dist.	-4286 Aug 20 j 17:43	24° $\overline{3}$ 28'44	18.94942 AU	direct	-4280 Nov 27 j 12:08	16° \approx 55'08	
direct	-4286 Nov 03 j 22:23	22° $\overline{3}$ 30'12		evening set	-4279 Feb 26 j 10:55	19° \approx 58'57	
evening set	-4285 Feb 01 j 18:14	25° $\overline{3}$ 29'30					
				conjunction	-4279 Mar 15 j 01:20	20° \approx 55'54	-0°49'18
conjunction	-4285 Feb 18 j 02:50	26° $\overline{3}$ 25'01	-0°48'11	minimum elong	-4279 Mar 15 j 01:20	20° \approx 55'54	0°49'26
minimum elong	-4285 Feb 18 j 02:50	26° $\overline{3}$ 25'01	0°48'22	max. Earth dist.	-4279 Mar 15 j 05:24	20° \approx 56'29	20.64330 AU
max. Earth dist.	-4285 Feb 18 j 18:43	26° $\overline{3}$ 27'16	20.93036 AU	morning rise	-4279 Mar 31 j 18:12	21° \approx 53'14	
morning rise	-4285 Mar 06 j 15:05	27° $\overline{3}$ 21'03		retrograde	-4279 Jul 04 j 06:15	25° \approx 03'45	
	-4285 May 05 j 13:52	0° \approx		opposition	-4279 Sep 18 j 07:38	23° \approx 02'56	-0°54'15
retrograde	-4285 Jun 09 j 11:03	0° \approx 29'24		min. Earth dist.	-4279 Sep 18 j 04:56	23° \approx 03'13	18.61576 AU
	-4285 Jul 14 j 18:22	30° \approx		direct	-4279 Dec 01 j 20:41	21° \approx 03'41	
opposition	-4285 Aug 25 j 14:04	28° $\overline{3}$ 29'18	-0°53'46	evening set	-4278 Mar 03 j 00:27	24° \approx 08'30	
min. Earth dist.	-4285 Aug 25 j 01:12	28° $\overline{3}$ 30'38	18.91072 AU				
direct	-4285 Nov 08 j 04:11	26° $\overline{3}$ 31'57		conjunction	-4278 Mar 19 j 15:34	25° \approx 05'44	-0°48'36
evening set	-4284 Feb 06 j 03:28	29° $\overline{3}$ 31'50		minimum elong	-4278 Mar 19 j 15:35	25° \approx 05'44	0°48'43
	-4284 Feb 14 j 11:45	0° \approx		max. Earth dist.	-4278 Mar 19 j 16:21	25° \approx 05'50	20.58764 AU
				morning rise	-4278 Apr 05 j 09:14	26° \approx 03'19	
conjunction	-4284 Feb 22 j 12:57	0° \approx 27'33	-0°48'59	retrograde	-4278 Jul 08 j 18:23	29° \approx 14'19	
minimum elong	-4284 Feb 22 j 12:57	0° \approx 27'33	0°49'10	opposition	-4278 Sep 22 j 16:01	27° \approx 13'26	-0°53'20
max. Earth dist.	-4284 Feb 23 j 01:43	0° \approx 29'22	20.88976 AU	min. Earth dist.	-4278 Sep 22 j 15:56	27° \approx 13'27	18.55910 AU
morning rise	-4284 Mar 10 j 02:14	1° \approx 23'47		direct	-4278 Dec 06 j 04:21	25° \approx 13'53	
retrograde	-4284 Jun 12 j 21:29	4° \approx 32'25		evening set	-4277 Mar 07 j 14:56	28° \approx 19'46	
opposition	-4284 Aug 28 j 20:24	2° \approx 32'09	-0°54'32				
min. Earth dist.	-4284 Aug 28 j 09:41	2° \approx 33'16	18.86829 AU	conjunction	-4277 Mar 24 j 07:02	29° \approx 17'17	-0°47'38
direct	-4284 Nov 11 j 09:52	0° \approx 34'29		minimum elong	-4277 Mar 24 j 07:02	29° \approx 17'17	0°47'45

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 11

Attention, astronomical year style is used: The year -4277 in astronomical counting style is the year 4278 BCE in historical counting style.

max. Earth dist.	-4277 Mar 24 j 06:34	29° \approx 17'13	20.52990 AU	min. Earth dist.	-4271 Oct 22 j 08:29	27° \mathbf{H} 15'18	18.10117 AU
	-4277 Apr 05 j 14:46	0° \mathbf{H}		direct	-4270 Jan 04 j 17:06	25° \mathbf{H} 14'29	
morning rise	-4277 Apr 10 j 01:03	0° \mathbf{H} 15'07		evening set	-4270 Apr 07 j 22:07	28° \mathbf{H} 28'48	
retrograde	-4277 Jul 13 j 08:48	3° \mathbf{H} 26'37					
opposition	-4277 Sep 27 j 00:42	1° \mathbf{H} 25'42	-0°52'08	conjunction	-4270 Apr 24 j 17:59	29° \mathbf{H} 28'21	-0°33'38
min. Earth dist.	-4277 Sep 27 j 02:04	1° \mathbf{H} 25'33	18.50015 AU	minimum elong	-4270 Apr 24 j 17:59	29° \mathbf{H} 28'21	0°33'39
	-4277 Nov 03 j 18:46	30° \mathbf{R} \approx		max. Earth dist.	-4270 Apr 23 j 23:15	29° \mathbf{H} 25'34	20.06632 AU
direct	-4277 Dec 10 j 14:40	29° \approx 25'50			-4270 May 03 j 15:11	0° \mathbf{Y}	
	-4276 Jan 16 j 00:19	0° \mathbf{H}		morning rise	-4270 May 11 j 13:43	0° \mathbf{Y} 27'55	
evening set	-4276 Mar 11 j 06:33	2° \mathbf{H} 32'50		retrograde	-4270 Aug 12 j 19:36	3° \mathbf{Y} 43'07	
				opposition	-4270 Oct 26 j 08:02	1° \mathbf{Y} 41'23	-0°35'44
conjunction	-4276 Mar 27 j 23:13	3° \mathbf{H} 30'39	-0°46'24	min. Earth dist.	-4270 Oct 27 j 00:29	1° \mathbf{Y} 39'37	18.03169 AU
minimum elong	-4276 Mar 27 j 23:13	3° \mathbf{H} 30'39	0°46'29		-4270 Dec 11 j 14:13	30° \mathbf{R} \mathbf{H}	
max. Earth dist.	-4276 Mar 27 j 19:08	3° \mathbf{H} 30'03	20.46980 AU	direct	-4269 Jan 09 j 07:35	29° \mathbf{H} 38'38	
morning rise	-4276 Apr 13 j 17:50	4° \mathbf{H} 28'44			-4269 Feb 06 j 20:09	0° \mathbf{Y}	
retrograde	-4276 Jul 16 j 21:44	7° \mathbf{H} 40'45		evening set	-4269 Apr 12 j 19:38	2° \mathbf{Y} 54'15	
opposition	-4276 Sep 30 j 10:15	5° \mathbf{H} 39'46	-0°50'38				
min. Earth dist.	-4276 Sep 30 j 14:33	5° \mathbf{H} 39'19	18.43887 AU	conjunction	-4269 Apr 29 j 15:47	3° \mathbf{Y} 54'05	-0°30'41
direct	-4276 Dec 13 j 23:43	3° \mathbf{H} 39'34		minimum elong	-4269 Apr 29 j 15:47	3° \mathbf{Y} 54'05	0°30'40
evening set	-4275 Mar 15 j 22:45	6° \mathbf{H} 47'44		max. Earth dist.	-4269 Apr 28 j 19:33	3° \mathbf{Y} 51'04	19.99732 AU
				morning rise	-4269 May 16 j 11:22	4° \mathbf{Y} 53'52	
conjunction	-4275 Apr 01 j 16:16	7° \mathbf{H} 45'50	-0°44'54	retrograde	-4269 Aug 17 j 14:23	8° \mathbf{Y} 09'36	
minimum elong	-4275 Apr 01 j 16:17	7° \mathbf{H} 45'50	0°45'00	opposition	-4269 Oct 30 j 21:52	6° \mathbf{Y} 07'45	-0°32'22
max. Earth dist.	-4275 Apr 01 j 10:41	7° \mathbf{H} 45'01	20.40724 AU	min. Earth dist.	-4269 Oct 31 j 14:53	6° \mathbf{Y} 05'55	17.96334 AU
morning rise	-4275 Apr 18 j 11:09	8° \mathbf{H} 44'10		direct	-4268 Jan 14 j 00:41	4° \mathbf{Y} 04'34	
retrograde	-4275 Jul 21 j 13:25	11° \mathbf{H} 56'43		evening set	-4268 Apr 16 j 17:59	7° \mathbf{Y} 21'29	
opposition	-4275 Oct 04 j 20:19	9° \mathbf{H} 55'39	-0°48'51				
min. Earth dist.	-4275 Oct 05 j 01:59	9° \mathbf{H} 55'03	18.37497 AU	conjunction	-4268 May 03 j 14:12	8° \mathbf{Y} 21'34	-0°27'33
direct	-4275 Dec 18 j 11:58	7° \mathbf{H} 55'05		minimum elong	-4268 May 03 j 14:12	8° \mathbf{Y} 21'34	0°27'32
evening set	-4274 Mar 20 j 16:14	11° \mathbf{H} 04'26		max. Earth dist.	-4268 May 02 j 15:58	8° \mathbf{Y} 18'15	19.92975 AU
				morning rise	-4268 May 20 j 09:32	9° \mathbf{Y} 21'35	
conjunction	-4274 Apr 06 j 10:15	12° \mathbf{H} 02'49	-0°43'09	retrograde	-4268 Aug 21 j 07:33	12° \mathbf{Y} 37'51	
minimum elong	-4274 Apr 06 j 10:15	12° \mathbf{H} 02'49	0°43'12	opposition	-4268 Nov 03 j 12:43	10° \mathbf{Y} 35'54	-0°28'47
max. Earth dist.	-4274 Apr 06 j 00:55	12° \mathbf{H} 01'28	20.34211 AU	min. Earth dist.	-4268 Nov 04 j 08:03	10° \mathbf{Y} 33'48	17.89693 AU
morning rise	-4274 Apr 23 j 05:34	13° \mathbf{H} 01'25		direct	-4267 Jan 17 j 16:18	8° \mathbf{Y} 32'19	
retrograde	-4274 Jul 26 j 03:09	16° \mathbf{H} 14'30		evening set	-4267 Apr 21 j 16:53	11° \mathbf{Y} 50'31	
opposition	-4274 Oct 09 j 07:01	14° \mathbf{H} 13'19	-0°46'46				
min. Earth dist.	-4274 Oct 09 j 15:46	14° \mathbf{H} 12'24	18.30873 AU	conjunction	-4267 May 08 j 13:10	12° \mathbf{Y} 50'52	-0°24'13
direct	-4274 Dec 22 j 22:48	12° \mathbf{H} 12'20		minimum elong	-4267 May 08 j 13:10	12° \mathbf{Y} 50'52	0°24'11
evening set	-4273 Mar 25 j 10:27	15° \mathbf{H} 22'54		max. Earth dist.	-4267 May 07 j 13:29	12° \mathbf{Y} 47'18	19.86456 AU
				morning rise	-4267 May 25 j 08:16	13° \mathbf{Y} 51'05	
conjunction	-4273 Apr 11 j 05:12	16° \mathbf{H} 21'36	-0°41'08	retrograde	-4267 Aug 26 j 04:15	17° \mathbf{Y} 07'54	
minimum elong	-4273 Apr 11 j 05:12	16° \mathbf{H} 21'36	0°41'11	opposition	-4267 Nov 08 j 04:10	15° \mathbf{Y} 05'52	-0°25'00
max. Earth dist.	-4273 Apr 10 j 18:08	16° \mathbf{H} 19'58	20.27484 AU	min. Earth dist.	-4267 Nov 08 j 23:46	15° \mathbf{Y} 03'44	17.83302 AU
morning rise	-4273 Apr 28 j 00:40	17° \mathbf{H} 20'26		direct	-4266 Jan 22 j 11:05	13° \mathbf{Y} 01'55	
retrograde	-4273 Jul 30 j 19:47	20° \mathbf{H} 34'03		evening set	-4266 Apr 26 j 16:49	16° \mathbf{Y} 21'25	
opposition	-4273 Oct 13 j 18:17	18° \mathbf{H} 32'45	-0°44'24				
min. Earth dist.	-4273 Oct 14 j 04:15	18° \mathbf{H} 31'41	18.24048 AU	conjunction	-4266 May 13 j 13:03	17° \mathbf{Y} 22'01	-0°20'43
direct	-4273 Dec 27 j 12:53	16° \mathbf{H} 31'21		minimum elong	-4266 May 13 j 13:03	17° \mathbf{Y} 22'01	0°20'40
evening set	-4272 Mar 29 j 05:34	19° \mathbf{H} 43'08		max. Earth dist.	-4266 May 12 j 12:00	17° \mathbf{Y} 18'14	19.80197 AU
max. Earth dist.	-4272 Apr 14 j 10:14	20° \mathbf{H} 40'00	20.20585 AU	morning rise	-4266 May 30 j 07:39	18° \mathbf{Y} 22'26	
				retrograde	-4266 Aug 30 j 22:43	21° \mathbf{Y} 39'46	
conjunction	-4272 Apr 15 j 00:39	20° \mathbf{H} 42'07	-0°38'52	opposition	-4266 Nov 12 j 20:30	19° \mathbf{Y} 37'42	-0°21'02
minimum elong	-4272 Apr 15 j 00:39	20° \mathbf{H} 42'07	0°38'55	min. Earth dist.	-4266 Nov 13 j 18:15	19° \mathbf{Y} 35'20	17.77198 AU
morning rise	-4272 May 01 j 20:20	21° \mathbf{H} 41'12		direct	-4265 Jan 27 j 03:52	17° \mathbf{Y} 33'25	
retrograde	-4272 Aug 03 j 10:17	24° \mathbf{H} 55'21		evening set	-4265 May 01 j 17:33	20° \mathbf{Y} 54'13	
opposition	-4272 Oct 17 j 06:17	22° \mathbf{H} 53'54	-0°41'46	max. Earth dist.	-4265 May 17 j 10:50	21° \mathbf{Y} 50'59	19.74254 AU
min. Earth dist.	-4272 Oct 17 j 19:09	22° \mathbf{H} 52'31	18.17103 AU				
direct	-4272 Dec 31 j 01:33	20° \mathbf{H} 52'03		conjunction	-4265 May 18 j 13:32	21° \mathbf{Y} 55'03	-0°17'05
evening set	-4271 Apr 03 j 01:22	24° \mathbf{H} 05'06		minimum elong	-4265 May 18 j 13:33	21° \mathbf{Y} 55'03	0°17'02
				morning rise	-4265 Jun 04 j 07:44	22° \mathbf{Y} 55'39	
conjunction	-4271 Apr 19 j 20:59	25° \mathbf{H} 04'22	-0°36'21	retrograde	-4265 Sep 04 j 20:59	26° \mathbf{Y} 13'31	
minimum elong	-4271 Apr 19 j 20:59	25° \mathbf{H} 04'22	0°36'23	opposition	-4265 Nov 17 j 13:38	24° \mathbf{Y} 11'26	-0°16'54
max. Earth dist.	-4271 Apr 19 j 05:01	25° \mathbf{H} 02'01	20.13614 AU	min. Earth dist.	-4265 Nov 18 j 11:37	24° \mathbf{Y} 09'03	17.71408 AU
morning rise	-4271 May 06 j 16:42	26° \mathbf{H} 03'42		direct	-4264 Feb 01 j 00:07	22° \mathbf{Y} 06'53	
retrograde	-4271 Aug 08 j 03:49	29° \mathbf{H} 18'22		evening set	-4264 May 05 j 18:49	25° \mathbf{Y} 28'56	
opposition	-4271 Oct 21 j 18:42	27° \mathbf{H} 16'47	-0°38'53	max. Earth dist.	-4264 May 21 j 11:14	26° \mathbf{Y} 25'48	19.68607 AU

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 12

Attention, astronomical year style is used: The year -4264 in astronomical counting style is the year 4265 BCE in historical counting style.

conjunction	-4264 May 22 j 14:35	26° Υ 29'58	-0°13'18	behind sun begin	-4259 Jun 15 j 21:20	19° 8 48'25	
minimum elong	-4264 May 22 j 14:35	26° Υ 29'58	0°13'13	behind sun end	-4259 Jun 16 j 09:49	19° 8 50'18	
behind sun begin	-4264 May 22 j 10:46	26° Υ 29'24		morning rise	-4259 Jul 02 j 16:46	20° 8 50'37	
behind sun end	-4264 May 22 j 18:25	26° Υ 30'32		retrograde	-4259 Oct 02 j 07:55	24° 8 11'04	
morning rise	-4264 Jun 08 j 08:01	27° Υ 30'44		opposition	-4259 Dec 14 j 14:22	22° 8 08'56	0°09'49
	-4264 Jul 27 j 19:38	0° 8		min. Earth dist.	-4259 Dec 15 j 18:01	22° 8 05'55	17.42941 AU
retrograde	-4264 Sep 08 j 16:51	0° 8 49'07		direct	-4258 Feb 28 j 15:58	20° 8 02'52	
	-4264 Oct 22 j 09:05	30° 8 Υ		evening set	-4258 Jun 04 j 15:17	23° 8 31'11	
opposition	-4264 Nov 21 j 07:47	28° Υ 47'04	-0°12'38	max. Earth dist.	-4258 Jun 19 j 22:59	24° 8 27'58	19.41075 AU
min. Earth dist.	-4264 Nov 22 j 07:42	28° Υ 44'27	17.65921 AU				
direct	-4263 Feb 04 j 18:51	26° Υ 42'14		conjunction	-4258 Jun 21 j 07:08	24° 8 32'58	0°10'53
	-4263 May 09 j 07:50	0° 8		minimum elong	-4258 Jun 21 j 07:08	24° 8 32'58	0°11'02
evening set	-4263 May 10 j 20:59	0° 8 05'31		behind sun begin	-4258 Jun 21 j 02:07	24° 8 32'13	
max. Earth dist.	-4263 May 26 j 10:59	1° 8 02'16	19.63272 AU	behind sun end	-4258 Jun 21 j 12:08	24° 8 33'44	
				morning rise	-4258 Jul 07 j 19:04	25° 8 34'15	
conjunction	-4263 May 27 j 16:14	1° 8 06'45	-0°09'25	retrograde	-4258 Oct 07 j 06:47	28° 8 54'57	
minimum elong	-4263 May 27 j 16:14	1° 8 06'45	0°09'20	opposition	-4258 Dec 19 j 13:03	26° 8 52'48	0°14'17
behind sun begin	-4263 May 27 j 10:35	1° 8 05'54		min. Earth dist.	-4258 Dec 20 j 17:02	26° 8 49'45	17.39399 AU
behind sun end	-4263 May 27 j 21:53	1° 8 07'35		direct	-4257 Mar 05 j 18:01	24° 8 46'32	
morning rise	-4263 Jun 13 j 09:07	2° 8 07'39		evening set	-4257 Jun 09 j 19:51	28° 8 15'34	
retrograde	-4263 Sep 13 j 15:41	5° 8 26'32		max. Earth dist.	-4257 Jun 25 j 01:21	29° 8 12'12	19.37766 AU
opposition	-4263 Nov 26 j 02:30	3° 8 24'29	-0°08'15				
min. Earth dist.	-4263 Nov 27 j 02:49	3° 8 21'50	17.60734 AU	conjunction	-4257 Jun 26 j 10:33	29° 8 17'23	0°14'50
direct	-4262 Feb 09 j 16:54	1° 8 19'24		minimum elong	-4257 Jun 26 j 10:33	29° 8 17'23	0°15'00
evening set	-4262 May 15 j 23:45	4° 8 43'51		behind sun begin	-4257 Jun 26 j 08:16	29° 8 17'03	
				behind sun end	-4257 Jun 26 j 12:49	29° 8 17'44	
conjunction	-4262 Jun 01 j 18:38	5° 8 45'15	-0°05'27		-4257 Jul 07 j 19:56	0° II	
minimum elong	-4262 Jun 01 j 18:39	5° 8 45'15	0°05'21	morning rise	-4257 Jul 12 j 21:27	0° II 18'41	
behind sun begin	-4262 Jun 01 j 12:06	5° 8 44'16		retrograde	-4257 Oct 12 j 05:47	3° II 39'37	
behind sun end	-4262 Jun 02 j 01:11	5° 8 46'14		opposition	-4257 Dec 24 j 12:25	1° II 37'26	0°18'39
max. Earth dist.	-4262 May 31 j 13:05	5° 8 40'43	19.58212 AU	min. Earth dist.	-4257 Dec 25 j 16:28	1° II 34'22	17.36347 AU
morning rise	-4262 Jun 18 j 10:34	6° 8 46'16			-4256 Feb 05 j 02:18	30° R 8	
retrograde	-4262 Sep 18 j 12:24	10° 8 05'36		direct	-4256 Mar 09 j 20:17	29° 8 30'57	
opposition	-4262 Nov 30 j 22:24	8° 8 03'34	-0°03'46		-4256 Apr 12 j 03:29	0° II	
min. Earth dist.	-4262 Dec 02 j 00:23	8° 8 00'43	17.55816 AU	evening set	-4256 Jun 14 j 00:03	3° II 00'37	
direct	-4261 Feb 14 j 14:14	5° 8 58'14		max. Earth dist.	-4256 Jun 29 j 06:08	3° II 57'29	19.34970 AU
evening set	-4261 May 21 j 03:11	9° 8 23'47					
				conjunction	-4256 Jun 30 j 13:50	4° II 02'27	0°18'42
conjunction	-4261 Jun 06 j 21:15	10° 8 25'18	-0°01'23	minimum elong	-4256 Jun 30 j 13:50	4° II 02'27	0°18'53
minimum elong	-4261 Jun 06 j 21:16	10° 8 25'19	0°01'15	morning rise	-4256 Jul 16 j 23:27	5° II 03'42	
behind sun begin	-4261 Jun 06 j 14:30	10° 8 24'18		retrograde	-4256 Oct 16 j 05:36	8° II 24'51	
behind sun end	-4261 Jun 07 j 04:02	10° 8 26'20		opposition	-4256 Dec 28 j 12:18	6° II 22'39	0°22'55
max. Earth dist.	-4261 Jun 05 j 13:42	10° 8 20'26	19.53436 AU	min. Earth dist.	-4256 Dec 29 j 15:45	6° II 19'39	17.33819 AU
morning rise	-4261 Jun 23 j 12:27	11° 8 26'26		direct	-4255 Mar 14 j 23:34	4° II 16'01	
retrograde	-4261 Sep 23 j 11:22	14° 8 46'11		evening set	-4255 Jun 19 j 04:30	7° II 46'12	
asc. node	-4261 Oct 06 j 08:15	14° 8 41'33		max. Earth dist.	-4255 Jul 04 j 09:08	8° II 42'59	19.32730 AU
opposition	-4261 Dec 05 j 18:57	12° 8 44'07	0°00'45				
min. Earth dist.	-4261 Dec 06 j 21:16	12° 8 41'15	17.51194 AU	conjunction	-4255 Jul 05 j 17:02	8° II 48'00	0°22'27
direct	-4260 Feb 19 j 14:27	10° 8 38'32		minimum elong	-4255 Jul 05 j 17:02	8° II 48'00	0°22'37
evening set	-4260 May 25 j 06:52	14° 8 05'06		morning rise	-4255 Jul 22 j 01:28	9° II 49'13	
	-4260 Jun 09 j 04:49	15° 8		retrograde	-4255 Oct 21 j 04:44	13° II 10'31	
max. Earth dist.	-4260 Jun 09 j 17:08	15° 8 01'55	19.48959 AU	opposition	-4254 Jan 02 j 12:36	11° II 08'18	0°27'01
				min. Earth dist.	-4254 Jan 03 j 16:00	11° II 05'19	17.31893 AU
conjunction	-4260 Jun 11 j 00:25	15° 8 06'45	0°02'48	direct	-4254 Mar 20 j 02:01	9° II 01'34	
minimum elong	-4260 Jun 11 j 00:25	15° 8 06'45	0°02'55	evening set	-4254 Jun 24 j 08:45	12° II 32'11	
behind sun begin	-4260 Jun 10 j 17:40	15° 8 05'44					
behind sun end	-4260 Jun 11 j 07:09	15° 8 07'46		conjunction	-4254 Jul 10 j 20:10	13° II 33'56	0°26'02
morning rise	-4260 Jun 27 j 14:27	16° 8 07'56		minimum elong	-4254 Jul 10 j 20:10	13° II 33'56	0°26'14
retrograde	-4260 Sep 27 j 09:03	19° 8 28'04		max. Earth dist.	-4254 Jul 09 j 13:53	13° II 29'10	19.31116 AU
opposition	-4260 Dec 09 j 16:21	17° 8 25'59	0°05'17	morning rise	-4254 Jul 27 j 03:17	14° II 35'05	
min. Earth dist.	-4260 Dec 10 j 19:44	17° 8 22'59	17.46883 AU	retrograde	-4254 Oct 26 j 05:25	17° II 56'30	
direct	-4259 Feb 23 j 14:26	15° 8 20'09		opposition	-4253 Jan 07 j 13:31	15° II 54'20	0°30'56
evening set	-4259 May 30 j 10:59	18° 8 47'38		min. Earth dist.	-4253 Jan 08 j 15:26	15° II 51'31	17.30595 AU
max. Earth dist.	-4259 Jun 14 j 18:34	19° 8 44'14	19.44826 AU	direct	-4253 Mar 25 j 05:43	13° II 47'34	
				evening set	-4253 Jun 29 j 12:47	17° II 18'30	
conjunction	-4259 Jun 16 j 03:35	19° 8 49'22	0°06'52				
minimum elong	-4259 Jun 16 j 03:34	19° 8 49'22	0°07'01	conjunction	-4253 Jul 15 j 22:53	18° II 20'10	0°29'27

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 13

Attention, astronomical year style is used: The year -4253 in astronomical counting style is the year 4254 BCE in historical counting style.

minimum elong	-4253 Jul 15 j 22:53	18° Π 20'10	0°29'38	opposition	-4246 Feb 10 j 05:38	19° \mathfrak{D} 17'42	0°51'09
max. Earth dist.	-4253 Jul 14 j 17:23	18° Π 15'31	19.30146 AU	min. Earth dist.	-4246 Feb 10 j 23:13	19° \mathfrak{D} 15'49	17.38533 AU
morning rise	-4253 Aug 01 j 04:40	19° Π 21'14		direct	-4246 Apr 28 j 09:28	17° \mathfrak{D} 12'04	
retrograde	-4253 Oct 31 j 05:15	22° Π 42'44		evening set	-4246 Aug 02 j 06:44	20° \mathfrak{D} 41'55	
opposition	-4252 Jan 12 j 14:58	20° Π 40'39	0°34'39				
min. Earth dist.	-4252 Jan 13 j 16:33	20° Π 37'52	17.29969 AU	conjunction	-4246 Aug 18 j 07:37	21° \mathfrak{D} 42'22	0°46'38
direct	-4252 Mar 29 j 08:18	18° Π 33'54		minimum elong	-4246 Aug 18 j 07:37	21° \mathfrak{D} 42'22	0°46'50
evening set	-4252 Jul 03 j 16:33	22° Π 05'03		max. Earth dist.	-4246 Aug 17 j 13:08	21° \mathfrak{D} 39'27	19.39991 AU
max. Earth dist.	-4252 Jul 18 j 21:31	23° Π 02'13	19.29859 AU	morning rise	-4246 Sep 03 j 04:50	22° \mathfrak{D} 42'15	
				retrograde	-4246 Dec 03 j 04:31	26° \mathfrak{D} 03'10	
conjunction	-4252 Jul 20 j 01:24	23° Π 06'38	0°32'41	opposition	-4245 Feb 15 j 08:29	24° \mathfrak{D} 01'54	0°52'44
minimum elong	-4252 Jul 20 j 01:24	23° Π 06'37	0°32'52	min. Earth dist.	-4245 Feb 15 j 23:29	24° \mathfrak{D} 00'18	17.41614 AU
morning rise	-4252 Aug 05 j 05:57	24° Π 07'35		direct	-4245 May 03 j 14:25	21° \mathfrak{D} 56'30	
retrograde	-4252 Nov 04 j 06:18	27° Π 29'08		evening set	-4245 Aug 07 j 06:42	25° \mathfrak{D} 25'42	
opposition	-4251 Jan 16 j 16:33	25° Π 27'10	0°38'08				
min. Earth dist.	-4251 Jan 17 j 16:08	25° Π 24'36	17.29998 AU	conjunction	-4245 Aug 23 j 06:31	26° \mathfrak{D} 25'53	0°47'54
direct	-4251 Apr 03 j 12:07	23° Π 20'32		minimum elong	-4245 Aug 23 j 06:31	26° \mathfrak{D} 25'53	0°48'04
evening set	-4251 Jul 08 j 20:03	26° Π 51'47		max. Earth dist.	-4245 Aug 22 j 15:08	26° \mathfrak{D} 23'27	19.43272 AU
max. Earth dist.	-4251 Jul 24 j 01:18	27° Π 49'04	19.30206 AU	morning rise	-4245 Sep 08 j 02:30	27° \mathfrak{D} 25'32	
					-4245 Oct 28 j 02:27	0° Ω	
conjunction	-4251 Jul 25 j 03:39	27° Π 53'14	0°35'41	retrograde	-4245 Dec 08 j 02:24	0° Ω 46'09	
minimum elong	-4251 Jul 25 j 03:38	27° Π 53'14	0°35'53		-4244 Jan 19 j 17:51	30° \mathfrak{R} \mathfrak{D}	
morning rise	-4251 Aug 10 j 06:51	28° Π 54'03		opposition	-4244 Feb 20 j 11:20	28° \mathfrak{D} 44'58	0°53'58
	-4251 Aug 28 j 20:33	0° \mathfrak{D}		min. Earth dist.	-4244 Feb 21 j 01:12	28° \mathfrak{D} 43'30	17.45086 AU
retrograde	-4251 Nov 09 j 06:16	2° \mathfrak{D} 15'38		direct	-4244 May 07 j 17:36	26° \mathfrak{D} 39'47	
opposition	-4250 Jan 21 j 18:45	0° \mathfrak{D} 13'47	0°41'21		-4244 Aug 09 j 00:36	0° Ω	
min. Earth dist.	-4250 Jan 22 j 18:05	0° \mathfrak{D} 11'16	17.30654 AU	evening set	-4244 Aug 11 j 06:06	0° Ω 08'12	
	-4250 Jan 27 j 02:26	30° \mathfrak{R} Π					
direct	-4250 Apr 08 j 15:00	28° Π 07'18		conjunction	-4244 Aug 27 j 04:34	1° Ω 08'07	0°48'51
	-4250 Jun 15 j 06:50	0° \mathfrak{D}		minimum elong	-4244 Aug 27 j 04:34	1° Ω 08'07	0°49'02
evening set	-4250 Jul 13 j 23:14	1° \mathfrak{D} 38'33		max. Earth dist.	-4244 Aug 26 j 14:11	1° Ω 05'51	19.46952 AU
max. Earth dist.	-4250 Jul 29 j 04:21	2° \mathfrak{D} 35'52	19.31160 AU	morning rise	-4244 Sep 11 j 23:45	2° Ω 07'32	
				retrograde	-4244 Dec 12 j 01:14	5° Ω 27'47	
conjunction	-4250 Jul 30 j 05:25	2° \mathfrak{D} 39'50	0°38'26	opposition	-4243 Feb 24 j 13:36	3° Ω 26'39	0°54'49
minimum elong	-4250 Jul 30 j 05:25	2° \mathfrak{D} 39'50	0°38'38	min. Earth dist.	-4243 Feb 25 j 01:00	3° Ω 25'26	17.48965 AU
morning rise	-4250 Aug 15 j 07:25	3° \mathfrak{D} 40'31		direct	-4243 May 12 j 20:56	1° Ω 21'41	
retrograde	-4250 Nov 14 j 07:12	7° \mathfrak{D} 02'04		evening set	-4243 Aug 16 j 04:25	4° Ω 49'14	
opposition	-4249 Jan 26 j 21:08	5° \mathfrak{D} 00'22	0°44'17				
min. Earth dist.	-4249 Jan 27 j 18:09	4° \mathfrak{D} 58'06	17.31880 AU	conjunction	-4243 Sep 01 j 01:56	5° Ω 48'53	0°49'27
direct	-4249 Apr 13 j 19:53	2° \mathfrak{D} 54'04		minimum elong	-4243 Sep 01 j 01:56	5° Ω 48'53	0°49'37
evening set	-4249 Jul 19 j 01:57	6° \mathfrak{D} 25'10		max. Earth dist.	-4243 Aug 31 j 14:55	5° Ω 47'09	19.51032 AU
max. Earth dist.	-4249 Aug 03 j 08:01	7° \mathfrak{D} 22'40	19.32654 AU	morning rise	-4243 Sep 16 j 20:02	6° Ω 48'03	
				retrograde	-4243 Dec 16 j 22:40	10° Ω 07'53	
conjunction	-4249 Aug 04 j 06:53	7° \mathfrak{D} 26'17	0°40'56	opposition	-4242 Mar 01 j 15:49	8° Ω 06'48	0°55'18
minimum elong	-4249 Aug 04 j 06:53	7° \mathfrak{D} 26'17	0°41'08	min. Earth dist.	-4242 Mar 02 j 01:28	8° Ω 05'46	17.53238 AU
morning rise	-4249 Aug 20 j 07:30	8° \mathfrak{D} 26'47		direct	-4242 May 17 j 23:08	6° Ω 02'06	
retrograde	-4249 Nov 19 j 06:29	11° \mathfrak{D} 48'16		evening set	-4242 Aug 21 j 01:52	9° Ω 28'39	
opposition	-4248 Jan 31 j 23:58	9° \mathfrak{D} 46'42	0°46'54				
min. Earth dist.	-4248 Feb 01 j 20:37	9° \mathfrak{D} 44'28	17.33637 AU	conjunction	-4242 Sep 05 j 22:07	10° Ω 28'00	0°49'44
direct	-4248 Apr 17 j 23:50	7° \mathfrak{D} 40'37		minimum elong	-4242 Sep 05 j 22:07	10° Ω 28'00	0°49'54
evening set	-4248 Jul 23 j 04:05	11° \mathfrak{D} 11'26		max. Earth dist.	-4242 Sep 05 j 12:32	10° Ω 26'30	19.55520 AU
max. Earth dist.	-4248 Aug 07 j 09:42	12° \mathfrak{D} 08'52	19.34660 AU	morning rise	-4242 Sep 21 j 15:30	11° Ω 26'55	
				retrograde	-4242 Dec 21 j 20:20	14° Ω 46'20	
conjunction	-4248 Aug 08 j 07:35	12° \mathfrak{D} 12'20	0°43'08	opposition	-4241 Mar 06 j 17:39	12° Ω 45'16	0°55'25
minimum elong	-4248 Aug 08 j 07:35	12° \mathfrak{D} 12'20	0°43'20	min. Earth dist.	-4241 Mar 07 j 00:43	12° Ω 44'32	17.57945 AU
morning rise	-4248 Aug 24 j 07:08	13° \mathfrak{D} 12'39		direct	-4241 May 23 j 01:04	10° Ω 40'51	
retrograde	-4248 Nov 23 j 06:32	16° \mathfrak{D} 34'00		evening set	-4241 Aug 25 j 22:14	14° Ω 06'22	
opposition	-4247 Feb 05 j 02:43	14° \mathfrak{D} 32'33	0°49'12		-4241 Sep 09 j 07:05	15° Ω	
min. Earth dist.	-4247 Feb 05 j 20:54	14° \mathfrak{D} 30'36	17.35869 AU				
direct	-4247 Apr 23 j 05:14	12° \mathfrak{D} 26'41		conjunction	-4241 Sep 10 j 17:38	15° Ω 05'25	0°49'41
evening set	-4247 Jul 28 j 05:40	15° \mathfrak{D} 57'05		minimum elong	-4241 Sep 10 j 17:38	15° Ω 05'25	0°49'51
				max. Earth dist.	-4241 Sep 10 j 11:39	15° Ω 04'29	19.60445 AU
conjunction	-4247 Aug 13 j 08:00	16° \mathfrak{D} 57'46	0°45'03	morning rise	-4241 Sep 26 j 10:07	16° Ω 04'05	
minimum elong	-4247 Aug 13 j 08:00	16° \mathfrak{D} 57'46	0°45'14	retrograde	-4241 Dec 26 j 17:12	19° Ω 23'02	
max. Earth dist.	-4247 Aug 12 j 12:41	16° \mathfrak{D} 54'43	19.37111 AU	opposition	-4240 Mar 10 j 18:59	17° Ω 22'02	0°55'11
morning rise	-4247 Aug 29 j 06:11	17° \mathfrak{D} 57'52		min. Earth dist.	-4240 Mar 10 j 23:34	17° Ω 21'33	17.63080 AU
retrograde	-4247 Nov 28 j 05:03	21° \mathfrak{D} 19'02		direct	-4240 May 27 j 02:40	15° Ω 17'57	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 14

Attention, astronomical year style is used: The year -4240 in astronomical counting style is the year 4241 BCE in historical counting style.

evening set	-4240 Aug 29 j 17:45	18° Ω 42'20		max. Earth dist.	-4234 Oct 11 j 20:44	16° Π 41'39	20.04393 AU
				morning rise	-4234 Oct 26 j 23:48	17° Π 36'56	
conjunction	-4240 Sep 14 j 12:04	19° Ω 41'06	0°49'20	retrograde	-4233 Jan 27 j 03:00	20° Π 52'28	
minimum elong	-4240 Sep 14 j 12:04	19° Ω 41'06	0°49'27	opposition	-4233 Apr 13 j 13:22	18° Π 52'23	0°44'23
max. Earth dist.	-4240 Sep 14 j 07:50	19° Ω 40'26	19.65802 AU	min. Earth dist.	-4233 Apr 13 j 02:25	18° Π 53'30	18.07812 AU
morning rise	-4240 Sep 30 j 04:01	20° Ω 39'30		direct	-4233 Jun 29 j 14:39	16° Π 51'25	
retrograde	-4240 Dec 30 j 13:18	23° Ω 57'59		evening set	-4233 Sep 30 j 09:14	20° Π 07'11	
opposition	-4239 Mar 15 j 19:49	21° Ω 57'04	0°54'35				
min. Earth dist.	-4239 Mar 15 j 22:01	21° Ω 56'50	17.68651 AU	conjunction	-4233 Oct 15 j 23:15	21° Π 03'55	0°38'47
direct	-4239 Jun 01 j 02:38	19° Ω 53'21		minimum elong	-4233 Oct 15 j 23:15	21° Π 03'55	0°38'49
evening set	-4239 Sep 03 j 12:15	23° Ω 16'36		max. Earth dist.	-4233 Oct 16 j 11:46	21° Π 05'49	20.11219 AU
				morning rise	-4233 Oct 31 j 12:49	22° Π 00'35	
conjunction	-4239 Sep 19 j 05:49	24° Ω 15'04	0°48'40	retrograde	-4232 Jan 31 j 20:11	25° Π 15'34	
minimum elong	-4239 Sep 19 j 05:49	24° Ω 15'04	0°48'48	opposition	-4232 Apr 17 j 09:49	23° Π 15'36	0°41'42
max. Earth dist.	-4239 Sep 19 j 05:00	24° Ω 14'57	19.71574 AU	min. Earth dist.	-4232 Apr 16 j 20:05	23° Π 17'00	18.14602 AU
morning rise	-4239 Oct 04 j 21:02	25° Ω 13'12		direct	-4232 Jul 03 j 10:54	21° Π 15'02	
retrograde	-4238 Jan 04 j 09:38	28° Ω 31'13		evening set	-4232 Oct 03 j 21:51	24° Π 29'30	
opposition	-4238 Mar 20 j 20:06	26° Ω 30'25	0°53'40				
min. Earth dist.	-4238 Mar 20 j 19:27	26° Ω 30'29	17.74598 AU	conjunction	-4232 Oct 19 j 11:35	25° Π 25'58	0°36'18
direct	-4238 Jun 06 j 03:24	24° Ω 27'09		minimum elong	-4232 Oct 19 j 11:35	25° Π 25'58	0°36'20
evening set	-4238 Sep 08 j 05:59	27° Ω 49'13		max. Earth dist.	-4232 Oct 20 j 01:53	25° Π 28'08	20.17957 AU
				morning rise	-4232 Nov 04 j 01:10	26° Π 22'25	
conjunction	-4238 Sep 23 j 22:38	28° Ω 47'22	0°47'42	retrograde	-4231 Feb 04 j 10:14	29° Π 36'51	
minimum elong	-4238 Sep 23 j 22:38	28° Ω 47'22	0°47'48	opposition	-4231 Apr 22 j 05:46	27° Π 36'57	0°38'48
max. Earth dist.	-4238 Sep 23 j 23:46	28° Ω 47'33	19.77704 AU	min. Earth dist.	-4231 Apr 21 j 15:22	27° Π 38'25	18.21292 AU
morning rise	-4238 Oct 09 j 13:27	29° Ω 45'16		direct	-4231 Jul 08 j 04:06	25° Π 36'46	
	-4238 Oct 13 j 15:16	0° Π		evening set	-4231 Oct 08 j 09:30	28° Π 49'55	
retrograde	-4237 Jan 09 j 04:12	3° Π 02'48					
opposition	-4237 Mar 25 j 20:01	1° Π 02'08	0°52'24	conjunction	-4231 Oct 23 j 23:02	29° Π 46'08	0°33'37
min. Earth dist.	-4237 Mar 25 j 17:22	1° Π 02'25	17.80894 AU	minimum elong	-4231 Oct 23 j 23:02	29° Π 46'08	0°33'37
	-4237 Apr 20 j 23:24	30° κ 02		max. Earth dist.	-4231 Oct 24 j 14:52	29° Π 48'32	20.24587 AU
direct	-4237 Jun 11 j 01:32	28° Ω 59'19			-4231 Oct 27 j 18:27	0° Ω	
	-4237 Jul 30 j 00:33	0° Π		morning rise	-4231 Nov 08 j 12:44	0° Ω 42'23	
evening set	-4237 Sep 12 j 22:34	2° Π 20'10		retrograde	-4230 Feb 09 j 01:56	3° Ω 56'14	
				min. Earth dist.	-4230 Apr 26 j 07:36	1° Ω 58'08	18.27850 AU
conjunction	-4237 Sep 28 j 14:39	3° Π 18'02	0°46'27	opposition	-4230 Apr 27 j 00:47	1° Ω 56'23	0°35'43
minimum elong	-4237 Sep 28 j 14:39	3° Π 18'02	0°46'33		-4230 Jul 01 j 05:33	30° κ Π	
max. Earth dist.	-4237 Sep 28 j 18:53	3° Π 18'41	19.84142 AU	direct	-4230 Jul 12 j 22:09	29° Π 56'33	
morning rise	-4237 Oct 14 j 04:59	4° Π 15'40			-4230 Jul 24 j 10:36	0° Ω	
retrograde	-4236 Jan 14 j 00:02	7° Π 32'42		evening set	-4230 Oct 12 j 20:22	3° Ω 08'23	
opposition	-4236 Mar 29 j 19:14	5° Π 32'13	0°50'50				
min. Earth dist.	-4236 Mar 29 j 13:39	5° Π 32'47	17.87435 AU	conjunction	-4230 Oct 28 j 09:48	4° Ω 04'21	0°30'45
direct	-4236 Jun 15 j 01:08	3° Π 29'52		minimum elong	-4230 Oct 28 j 09:48	4° Ω 04'21	0°30'46
evening set	-4236 Sep 16 j 14:33	6° Π 49'28		max. Earth dist.	-4230 Oct 29 j 03:38	4° Ω 07'02	20.31077 AU
				morning rise	-4230 Nov 12 j 23:40	5° Ω 00'24	
conjunction	-4236 Oct 02 j 05:55	7° Π 47'03	0°44'55	retrograde	-4229 Feb 13 j 14:49	8° Ω 13'41	
minimum elong	-4236 Oct 02 j 05:55	7° Π 47'03	0°45'00	opposition	-4229 May 01 j 19:07	6° Ω 13'51	0°32'26
max. Earth dist.	-4236 Oct 02 j 12:04	7° Π 48'00	19.90781 AU	min. Earth dist.	-4229 May 01 j 01:21	6° Ω 15'39	18.34285 AU
morning rise	-4236 Oct 17 j 19:59	8° Π 44'26		direct	-4229 Jul 17 j 13:33	4° Ω 14'20	
retrograde	-4235 Jan 17 j 16:54	12° Π 00'59		evening set	-4229 Oct 17 j 06:19	7° Ω 24'52	
opposition	-4235 Apr 03 j 17:49	10° Π 00'38	0°48'58				
min. Earth dist.	-4235 Apr 03 j 10:51	10° Π 01'21	17.94159 AU	conjunction	-4229 Nov 01 j 19:44	8° Ω 20'36	0°27'45
direct	-4235 Jun 19 j 21:27	7° Π 58'45		minimum elong	-4229 Nov 01 j 19:44	8° Ω 20'36	0°27'44
evening set	-4235 Sep 21 j 05:37	11° Π 17'06		max. Earth dist.	-4229 Nov 02 j 14:56	8° Ω 23'29	20.37456 AU
				morning rise	-4229 Nov 17 j 09:56	9° Ω 16'28	
conjunction	-4235 Oct 06 j 20:29	12° Π 14'24	0°43'07	retrograde	-4228 Feb 18 j 05:26	12° Ω 29'11	
minimum elong	-4235 Oct 06 j 20:29	12° Π 14'24	0°43'11	opposition	-4228 May 05 j 12:23	10° Ω 29'21	0°29'01
max. Earth dist.	-4235 Oct 07 j 05:08	12° Π 15'43	19.97565 AU	min. Earth dist.	-4228 May 04 j 15:55	10° Ω 31'25	18.40603 AU
morning rise	-4235 Oct 22 j 10:16	13° Π 11'32		direct	-4228 Jul 21 j 05:32	8° Ω 30'08	
retrograde	-4234 Jan 22 j 11:31	16° Π 27'34		evening set	-4228 Oct 20 j 15:36	11° Ω 39'25	
opposition	-4234 Apr 08 j 15:50	14° Π 27'22	0°46'48				
min. Earth dist.	-4234 Apr 08 j 05:56	14° Π 28'23	18.00972 AU	conjunction	-4228 Nov 05 j 05:02	12° Ω 34'55	0°24'38
direct	-4234 Jun 24 j 19:52	12° Π 25'57		minimum elong	-4228 Nov 05 j 05:02	12° Ω 34'55	0°24'35
evening set	-4234 Sep 25 j 19:49	15° Π 43'01		max. Earth dist.	-4228 Nov 06 j 02:21	12° Ω 38'07	20.43709 AU
				morning rise	-4228 Nov 20 j 19:29	13° Ω 30'36	
conjunction	-4234 Oct 11 j 10:10	16° Π 40'02	0°41'04	retrograde	-4227 Feb 21 j 16:51	16° Ω 42'46	
minimum elong	-4234 Oct 11 j 10:10	16° Π 40'02	0°41'08	min. Earth dist.	-4227 May 09 j 07:50	14° Ω 45'04	18.46814 AU

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 15

Attention, astronomical year style is used: The year -4227 in astronomical counting style is the year 4228 BCE in historical counting style.

opposition	-4227 May 10 j 04:52	14° <u>♏</u> 42'57	0°25'29	max. Earth dist.	-4222 Dec 01 j 07:12	7° <u>♍</u> 31'45	20.78350 AU
direct	-4227 Jul 25 j 19:06	12° <u>♏</u> 44'03		morning rise	-4222 Dec 15 j 19:33	8° <u>♍</u> 22'21	
evening set	-4227 Oct 25 j 00:11	15° <u>♏</u> 52'06		retrograde	-4221 Mar 19 j 14:24	11° <u>♍</u> 31'51	
				opposition	-4221 Jun 05 j 16:11	9° <u>♍</u> 32'25	0°02'34
conjunction	-4227 Nov 09 j 13:41	16° <u>♏</u> 47'25	0°21'24	min. Earth dist.	-4221 Jun 04 j 12:20	9° <u>♍</u> 35'12	18.80861 AU
minimum elong	-4227 Nov 09 j 13:41	16° <u>♏</u> 47'25	0°21'21	direct	-4221 Aug 20 j 16:18	7° <u>♍</u> 35'26	
max. Earth dist.	-4227 Nov 10 j 12:11	16° <u>♏</u> 50'46	20.49878 AU	evening set	-4221 Nov 18 j 16:31	10° <u>♍</u> 37'29	
morning rise	-4227 Nov 25 j 04:35	17° <u>♏</u> 42'55					
retrograde	-4226 Feb 26 j 06:55	20° <u>♏</u> 54'33		conjunction	-4221 Dec 04 j 08:08	11° <u>♍</u> 31'54	0°00'36
opposition	-4226 May 14 j 20:33	18° <u>♏</u> 54'46	0°21'49	minimum elong	-4221 Dec 04 j 08:08	11° <u>♍</u> 31'54	0°00'29
min. Earth dist.	-4226 May 13 j 20:53	18° <u>♏</u> 57'09	18.52936 AU	behind sun begin	-4221 Dec 04 j 01:36	11° <u>♍</u> 30'58	
direct	-4226 Jul 30 j 09:17	16° <u>♏</u> 56'11		behind sun end	-4221 Dec 04 j 14:39	11° <u>♍</u> 32'49	
evening set	-4226 Oct 29 j 08:00	20° <u>♏</u> 03'05		max. Earth dist.	-4221 Dec 05 j 13:18	11° <u>♍</u> 36'09	20.83219 AU
				morning rise	-4221 Dec 20 j 02:40	12° <u>♍</u> 26'44	
conjunction	-4226 Nov 13 j 21:44	20° <u>♏</u> 58'12	0°18'04	desc. node	-4220 Feb 04 j 00:54	14° <u>♍</u> 40'52	
minimum elong	-4226 Nov 13 j 21:44	20° <u>♏</u> 58'12	0°18'00		-4220 Feb 13 j 12:16	15° <u>♍</u>	
max. Earth dist.	-4226 Nov 14 j 22:23	21° <u>♏</u> 01'52	20.55935 AU	retrograde	-4220 Mar 23 j 01:24	15° <u>♍</u> 35'52	
morning rise	-4226 Nov 29 j 13:02	21° <u>♏</u> 53'34			-4220 May 01 j 14:34	15° <u>♍</u>	
retrograde	-4225 Mar 02 j 17:30	25° <u>♏</u> 04'43		min. Earth dist.	-4220 Jun 07 j 22:52	13° <u>♍</u> 39'24	18.85529 AU
min. Earth dist.	-4225 May 18 j 11:27	23° <u>♏</u> 07'25	18.58937 AU	opposition	-4220 Jun 09 j 03:43	13° <u>♍</u> 36'31	-0°01'21
opposition	-4225 May 19 j 11:36	23° <u>♏</u> 04'58	0°18'05	direct	-4220 Aug 24 j 01:57	11° <u>♍</u> 39'46	
direct	-4225 Aug 03 j 20:57	21° <u>♏</u> 06'43		evening set	-4220 Nov 21 j 22:04	14° <u>♍</u> 41'03	
evening set	-4225 Nov 02 j 15:24	24° <u>♏</u> 12'31			-4220 Nov 27 j 10:27	15° <u>♍</u>	
conjunction	-4225 Nov 18 j 05:22	25° <u>♏</u> 07'28	0°14'40	conjunction	-4220 Dec 07 j 14:16	15° <u>♍</u> 35'23	-0°03'01
minimum elong	-4225 Nov 18 j 05:22	25° <u>♏</u> 07'28	0°14'36	minimum elong	-4220 Dec 07 j 14:16	15° <u>♍</u> 35'23	0°03'09
behind sun begin	-4225 Nov 18 j 02:23	25° <u>♏</u> 07'02		behind sun begin	-4220 Dec 07 j 07:45	15° <u>♍</u> 34'27	
behind sun end	-4225 Nov 18 j 08:21	25° <u>♏</u> 07'54		behind sun end	-4220 Dec 07 j 20:48	15° <u>♍</u> 36'18	
max. Earth dist.	-4225 Nov 19 j 06:48	25° <u>♏</u> 11'14	20.61870 AU	max. Earth dist.	-4220 Dec 08 j 20:33	15° <u>♍</u> 39'47	20.87651 AU
morning rise	-4225 Dec 03 j 21:16	26° <u>♏</u> 02'42		morning rise	-4220 Dec 23 j 09:26	16° <u>♍</u> 30'08	
retrograde	-4224 Mar 06 j 06:33	29° <u>♏</u> 13'22		retrograde	-4219 Mar 27 j 10:27	19° <u>♍</u> 38'58	
min. Earth dist.	-4224 May 21 j 23:20	27° <u>♏</u> 16'20	18.64789 AU	min. Earth dist.	-4219 Jun 12 j 10:22	17° <u>♍</u> 42'29	18.89733 AU
opposition	-4224 May 23 j 01:34	27° <u>♏</u> 13'42	0°14'16	opposition	-4219 Jun 13 j 14:43	17° <u>♍</u> 39'39	-0°05'15
direct	-4224 Aug 07 j 09:43	25° <u>♏</u> 15'46		direct	-4219 Aug 28 j 10:34	15° <u>♍</u> 43'08	
evening set	-4224 Nov 05 j 22:15	28° <u>♏</u> 20'33		evening set	-4219 Nov 26 j 03:28	18° <u>♍</u> 43'41	
conjunction	-4224 Nov 21 j 12:35	29° <u>♏</u> 15'21	0°11'13	conjunction	-4219 Dec 11 j 20:12	19° <u>♍</u> 37'56	-0°06'31
minimum elong	-4224 Nov 21 j 12:35	29° <u>♏</u> 15'21	0°11'08	minimum elong	-4219 Dec 11 j 20:13	19° <u>♍</u> 37'56	0°06'40
behind sun begin	-4224 Nov 21 j 07:40	29° <u>♏</u> 14'38		behind sun begin	-4219 Dec 11 j 14:04	19° <u>♍</u> 37'04	
behind sun end	-4224 Nov 21 j 17:31	29° <u>♏</u> 16'03		behind sun end	-4219 Dec 12 j 02:21	19° <u>♍</u> 38'48	
max. Earth dist.	-4224 Nov 22 j 15:54	29° <u>♏</u> 19'22	20.67614 AU	max. Earth dist.	-4219 Dec 13 j 01:48	19° <u>♍</u> 42'13	20.91622 AU
	-4224 Dec 04 j 04:44	0° <u>♍</u>		morning rise	-4219 Dec 27 j 16:17	20° <u>♍</u> 32'39	
morning rise	-4224 Dec 07 j 04:59	0° <u>♍</u> 10'27		retrograde	-4218 Mar 31 j 20:42	23° <u>♍</u> 41'11	
retrograde	-4223 Mar 10 j 16:43	3° <u>♍</u> 20'41		min. Earth dist.	-4218 Jun 16 j 20:13	21° <u>♍</u> 44'45	18.93460 AU
opposition	-4223 May 27 j 15:08	1° <u>♍</u> 21'06	0°10'24	opposition	-4218 Jun 18 j 01:10	21° <u>♍</u> 41'52	-0°09'06
min. Earth dist.	-4223 May 26 j 12:43	1° <u>♍</u> 23'46	18.70427 AU	direct	-4218 Sep 01 j 18:43	19° <u>♍</u> 45'30	
	-4223 Jul 03 j 17:34	30° <u>♏</u>		evening set	-4218 Nov 30 j 08:30	22° <u>♍</u> 45'23	
direct	-4223 Aug 11 j 19:45	29° <u>♏</u> 23'31					
	-4223 Sep 18 j 17:51	0° <u>♍</u>		conjunction	-4218 Dec 16 j 02:02	23° <u>♍</u> 39'35	-0°09'57
evening set	-4223 Nov 10 j 04:36	2° <u>♍</u> 27'19		minimum elong	-4218 Dec 16 j 02:01	23° <u>♍</u> 39'35	0°10'06
				behind sun begin	-4218 Dec 15 j 20:43	23° <u>♍</u> 38'50	
conjunction	-4223 Nov 25 j 19:14	3° <u>♍</u> 21'58	0°07'43	behind sun end	-4218 Dec 16 j 07:19	23° <u>♍</u> 40'19	
minimum elong	-4223 Nov 25 j 19:15	3° <u>♍</u> 21'58	0°07'38	max. Earth dist.	-4218 Dec 17 j 08:24	23° <u>♍</u> 43'58	20.95085 AU
behind sun begin	-4223 Nov 25 j 13:18	3° <u>♍</u> 21'07		morning rise	-4218 Dec 31 j 22:52	24° <u>♍</u> 34'16	
behind sun end	-4223 Nov 26 j 01:12	3° <u>♍</u> 22'49		retrograde	-4217 Apr 05 j 05:01	27° <u>♍</u> 42'30	
max. Earth dist.	-4223 Nov 26 j 23:01	3° <u>♍</u> 26'02	20.73133 AU	min. Earth dist.	-4217 Jun 21 j 06:45	25° <u>♍</u> 46'00	18.96666 AU
morning rise	-4223 Dec 11 j 12:21	4° <u>♍</u> 16'58		opposition	-4217 Jun 22 j 11:03	25° <u>♍</u> 43'10	-0°12'54
retrograde	-4222 Mar 15 j 04:37	7° <u>♍</u> 26'49		direct	-4217 Sep 06 j 02:51	23° <u>♍</u> 46'55	
min. Earth dist.	-4222 May 30 j 23:55	5° <u>♍</u> 30'07	18.75809 AU	evening set	-4217 Dec 04 j 13:30	26° <u>♍</u> 46'12	
opposition	-4222 Jun 01 j 03:59	5° <u>♍</u> 27'18	0°06'29				
direct	-4222 Aug 16 j 07:11	3° <u>♍</u> 30'01		conjunction	-4217 Dec 20 j 07:40	27° <u>♍</u> 40'21	-0°13'20
evening set	-4222 Nov 14 j 10:41	6° <u>♍</u> 32'55		minimum elong	-4217 Dec 20 j 07:40	27° <u>♍</u> 40'21	0°13'30
				behind sun begin	-4217 Dec 20 j 03:56	27° <u>♍</u> 39'49	
conjunction	-4222 Nov 30 j 01:52	7° <u>♍</u> 27'27	0°04'12	behind sun end	-4217 Dec 20 j 11:24	27° <u>♍</u> 40'52	
minimum elong	-4222 Nov 30 j 01:50	7° <u>♍</u> 27'27	0°04'06	max. Earth dist.	-4217 Dec 21 j 13:05	27° <u>♍</u> 44'35	20.98050 AU
behind sun begin	-4222 Nov 29 j 19:23	7° <u>♍</u> 26'32		morning rise	-4216 Jan 05 j 05:30	28° <u>♍</u> 35'00	
behind sun end	-4222 Nov 30 j 08:18	7° <u>♍</u> 28'22			-4216 Feb 01 j 06:43	0° <u>♏</u>	

Attention, astronomical year style is used: The year -4216 in astronomical counting style is the year 4217 BCE in historical counting style.

retrograde	-4216 Apr 08 j 14:30	1°♈42'59	conjunction	-4209 Jan 16 j 22:18	25°♈29'26	-0°34'08	
	-4216 Jun 18 j 23:36	30°♈42'59	minimum elong	-4209 Jan 16 j 22:18	25°♈29'26	0°34'20	
opposition	-4216 Jun 25 j 20:05	29°♈43'35	-0°16'37	max. Earth dist.	-4209 Jan 18 j 02:37	25°♈33'27	21.07359 AU
min. Earth dist.	-4216 Jun 24 j 15:35	29°♈46'26	18.99391 AU	morning rise	-4209 Feb 02 j 02:45	26°♈24'21	
direct	-4216 Sep 09 j 09:52	27°♈47'24		retrograde	-4209 May 07 j 21:32	29°♈31'33	
	-4216 Nov 23 j 14:43	0°♈		opposition	-4209 Jul 24 j 23:48	27°♈31'54	-0°39'07
evening set	-4216 Dec 07 j 18:10	0°♈46'08		min. Earth dist.	-4209 Jul 23 j 22:49	27°♈34'25	19.07357 AU
				direct	-4209 Oct 08 j 00:27	25°♈35'49	
conjunction	-4216 Dec 23 j 13:10	1°♈40'16	-0°16'39	evening set	-4208 Jan 05 j 03:25	28°♈33'01	
minimum elong	-4216 Dec 23 j 13:10	1°♈40'16	0°16'49				
max. Earth dist.	-4216 Dec 24 j 19:21	1°♈44'37	21.00534 AU	conjunction	-4208 Jan 21 j 04:35	29°♈27'27	-0°36'34
morning rise	-4215 Jan 08 j 11:47	2°♈34'55		minimum elong	-4208 Jan 21 j 04:35	29°♈27'27	0°36'45
retrograde	-4215 Apr 12 j 21:47	5°♈42'39		max. Earth dist.	-4208 Jan 22 j 06:59	29°♈31'12	21.07161 AU
min. Earth dist.	-4215 Jun 29 j 00:51	3°♈46'00	19.01657 AU		-4208 Jan 30 j 17:45	0°♈	
opposition	-4215 Jun 30 j 04:45	3°♈43'12	-0°20'13	morning rise	-4208 Feb 06 j 10:08	0°♈22'28	
direct	-4215 Sep 13 j 16:59	1°♈47'04		retrograde	-4208 May 11 j 06:10	3°♈29'44	
evening set	-4215 Dec 11 j 22:40	4°♈45'19		min. Earth dist.	-4208 Jul 27 j 06:04	1°♈32'30	19.06939 AU
				opposition	-4208 Jul 28 j 06:01	1°♈30'05	-0°41'42
conjunction	-4215 Dec 27 j 18:22	5°♈39'26	-0°19'52		-4208 Sep 08 j 16:50	30°♈♈	
minimum elong	-4215 Dec 27 j 18:22	5°♈39'26	0°20'02	direct	-4208 Oct 11 j 04:41	29°♈33'57	
max. Earth dist.	-4215 Dec 28 j 23:40	5°♈43'38	21.02601 AU		-4208 Nov 12 j 00:16	0°♈	
morning rise	-4214 Jan 12 j 18:02	6°♈34'05		evening set	-4207 Jan 08 j 09:06	2°♈31'17	
retrograde	-4214 Apr 17 j 07:08	9°♈41'38					
min. Earth dist.	-4214 Jul 03 j 08:53	7°♈44'55	19.03530 AU	conjunction	-4207 Jan 24 j 11:22	3°♈25'49	-0°38'49
opposition	-4214 Jul 04 j 12:54	7°♈42'06	-0°23'43	minimum elong	-4207 Jan 24 j 11:22	3°♈25'49	0°39'00
direct	-4214 Sep 17 j 23:07	5°♈45'59		max. Earth dist.	-4207 Jan 25 j 13:32	3°♈29'33	21.06504 AU
evening set	-4214 Dec 16 j 03:11	8°♈43'51		morning rise	-4207 Feb 09 j 17:45	4°♈20'57	
				retrograde	-4207 May 15 j 14:20	7°♈28'18	
conjunction	-4214 Dec 31 j 23:48	9°♈37'59	-0°22'58	opposition	-4207 Aug 01 j 12:15	5°♈28'40	-0°44'05
minimum elong	-4214 Dec 31 j 23:48	9°♈37'59	0°23'09	min. Earth dist.	-4207 Jul 31 j 13:37	5°♈30'57	19.06034 AU
max. Earth dist.	-4213 Jan 02 j 05:52	9°♈42'17	21.04273 AU	direct	-4207 Oct 15 j 09:14	3°♈32'29	
morning rise	-4213 Jan 17 j 00:18	10°♈32'40		evening set	-4206 Jan 12 j 15:14	6°♈29'58	
retrograde	-4213 Apr 21 j 13:33	13°♈40'02					
opposition	-4213 Jul 08 j 20:27	11°♈40'28	-0°27'05	conjunction	-4206 Jan 28 j 18:24	7°♈24'38	-0°40'53
min. Earth dist.	-4213 Jul 07 j 17:05	11°♈43'13	19.05021 AU	minimum elong	-4206 Jan 28 j 18:24	7°♈24'38	0°41'05
direct	-4213 Sep 22 j 04:57	9°♈44'21		max. Earth dist.	-4206 Jan 29 j 18:12	7°♈28'01	21.05355 AU
evening set	-4213 Dec 20 j 07:46	12°♈41'56		morning rise	-4206 Feb 14 j 01:56	8°♈19'54	
				retrograde	-4206 May 19 j 23:30	11°♈27'23	
conjunction	-4212 Jan 05 j 05:11	13°♈36'05	-0°25'58	opposition	-4206 Aug 05 j 18:29	9°♈27'42	-0°46'16
minimum elong	-4212 Jan 05 j 05:11	13°♈36'05	0°26'08	min. Earth dist.	-4206 Aug 04 j 21:20	9°♈29'50	19.04620 AU
max. Earth dist.	-4212 Jan 06 j 10:05	13°♈40'13	21.05591 AU	direct	-4206 Oct 19 j 13:49	7°♈31'23	
morning rise	-4212 Jan 21 j 06:46	14°♈30'48		evening set	-4205 Jan 16 j 21:54	10°♈29'08	
retrograde	-4212 Apr 24 j 22:47	17°♈38'04					
min. Earth dist.	-4212 Jul 11 j 00:29	15°♈41'11	19.06163 AU	conjunction	-4205 Feb 02 j 02:13	11°♈23'57	-0°42'45
opposition	-4212 Jul 12 j 03:42	15°♈38'27	-0°30'20	minimum elong	-4205 Feb 02 j 02:13	11°♈23'57	0°42'56
direct	-4212 Sep 25 j 10:12	13°♈42'21		max. Earth dist.	-4205 Feb 03 j 01:17	11°♈27'14	21.03658 AU
evening set	-4212 Dec 23 j 12:15	16°♈39'42		morning rise	-4205 Feb 18 j 10:36	12°♈19'21	
				retrograde	-4205 May 24 j 07:58	15°♈26'57	
conjunction	-4211 Jan 08 j 10:38	17°♈33'54	-0°28'50	min. Earth dist.	-4205 Aug 09 j 04:59	13°♈29'12	19.02639 AU
minimum elong	-4211 Jan 08 j 10:38	17°♈33'54	0°29'01	opposition	-4205 Aug 10 j 00:30	13°♈27'13	-0°48'14
max. Earth dist.	-4211 Jan 09 j 16:08	17°♈38'07	21.06543 AU	direct	-4205 Oct 23 j 18:29	11°♈30'45	
morning rise	-4211 Jan 24 j 13:03	18°♈28'40		evening set	-4204 Jan 21 j 05:05	14°♈28'48	
retrograde	-4211 Apr 29 j 05:11	21°♈35'52					
min. Earth dist.	-4211 Jul 15 j 08:08	19°♈38'54	19.06934 AU	conjunction	-4204 Feb 06 j 10:20	15°♈23'46	-0°44'25
opposition	-4211 Jul 16 j 10:39	19°♈36'14	-0°33'25	minimum elong	-4204 Feb 06 j 10:20	15°♈23'46	0°44'37
direct	-4211 Sep 29 j 15:13	17°♈40'09		max. Earth dist.	-4204 Feb 07 j 06:33	15°♈26'39	21.01410 AU
evening set	-4211 Dec 27 j 17:02	20°♈37'22		morning rise	-4204 Feb 22 j 19:50	16°♈19'19	
				retrograde	-4204 May 27 j 17:28	19°♈27'06	
conjunction	-4210 Jan 12 j 16:17	21°♈31'37	-0°31'33	opposition	-4204 Aug 13 j 06:41	17°♈27'14	-0°49'57
minimum elong	-4210 Jan 12 j 16:17	21°♈31'37	0°31'44	min. Earth dist.	-4204 Aug 12 j 12:54	17°♈29'03	19.00116 AU
max. Earth dist.	-4210 Jan 13 j 20:22	21°♈35'38	21.07144 AU	direct	-4204 Oct 26 j 23:35	15°♈30'34	
morning rise	-4210 Jan 28 j 19:49	22°♈26'28		evening set	-4203 Jan 24 j 12:26	18°♈28'58	
retrograde	-4210 May 03 j 14:05	25°♈33'39					
opposition	-4210 Jul 20 j 17:20	23°♈34'00	-0°36'21	conjunction	-4203 Feb 09 j 18:50	19°♈24'07	-0°45'52
min. Earth dist.	-4210 Jul 19 j 15:18	23°♈36'37	19.07351 AU	minimum elong	-4203 Feb 09 j 18:50	19°♈24'07	0°46'03
direct	-4210 Oct 03 j 19:45	21°♈37'55		max. Earth dist.	-4203 Feb 10 j 14:19	19°♈26'53	20.98621 AU
evening set	-4210 Dec 31 j 21:59	24°♈35'05		morning rise	-4203 Feb 26 j 05:08	20°♈19'49	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 17

Attention, astronomical year style is used: The year -4203 in astronomical counting style is the year 4204 BCE in historical counting style.

retrograde	-4203 Jun 01 j 02:17	23° ♁ 27'46			-4197 Sep 30 j 21:49	15° ♁	
opposition	-4203 Aug 17 j 12:49	21° ♁ 27'48	-0°51'26	direct	-4197 Nov 24 j 16:34	13° ♁ 49'21	
min. Earth dist.	-4203 Aug 16 j 20:34	21° ♁ 29'27	18.97069 AU		-4196 Jan 16 j 23:00	15° ♁	
direct	-4203 Oct 31 j 04:50	19° ♁ 30'53		evening set	-4196 Feb 23 j 09:11	16° ♁ 52'22	
evening set	-4202 Jan 28 j 20:30	22° ♁ 29'42					
conjunction	-4202 Feb 14 j 03:49	23° ♁ 25'01	-0°47'06	conjunction	-4196 Mar 10 j 22:29	17° ♁ 49'04	-0°49'29
minimum elong	-4202 Feb 14 j 03:49	23° ♁ 25'01	0°47'17	minimum elong	-4196 Mar 10 j 22:29	17° ♁ 49'04	0°49'37
max. Earth dist.	-4202 Feb 14 j 20:29	23° ♁ 27'23	20.95353 AU	max. Earth dist.	-4196 Mar 11 j 03:47	17° ♁ 49'50	20.68644 AU
morning rise	-4202 Mar 02 j 15:14	24° ♁ 20'54		morning rise	-4196 Mar 27 j 14:49	18° ♁ 46'12	
retrograde	-4202 Jun 05 j 11:53	27° ♁ 29'04		retrograde	-4196 Jun 30 j 04:26	21° ♁ 56'26	
opposition	-4202 Aug 21 j 18:55	25° ♁ 28'56	-0°52'41	opposition	-4196 Sep 14 j 11:09	19° ♁ 55'40	-0°54'34
min. Earth dist.	-4202 Aug 21 j 04:32	25° ♁ 30'24	18.93581 AU	min. Earth dist.	-4196 Sep 14 j 06:58	19° ♁ 56'06	18.66033 AU
direct	-4202 Nov 04 j 10:02	23° ♁ 31'43		direct	-4196 Nov 27 j 23:22	17° ♁ 56'43	
evening set	-4201 Feb 02 j 04:59	26° ♁ 31'03		evening set	-4195 Feb 26 j 21:44	21° ♁ 00'40	
conjunction	-4201 Feb 18 j 13:30	27° ♁ 26'35	-0°48'06	conjunction	-4195 Mar 15 j 12:06	21° ♁ 57'39	-0°49'00
minimum elong	-4201 Feb 18 j 13:30	27° ♁ 26'35	0°48'17	minimum elong	-4195 Mar 15 j 12:06	21° ♁ 57'39	0°49'08
max. Earth dist.	-4201 Feb 19 j 05:24	27° ♁ 28'50	20.91656 AU	max. Earth dist.	-4195 Mar 15 j 16:29	21° ♁ 58'17	20.63344 AU
morning rise	-4201 Mar 07 j 01:41	28° ♁ 22'38		morning rise	-4195 Apr 01 j 04:56	22° ♁ 55'02	
retrograde	-4201 Apr 07 j 21:59	0° ♁		retrograde	-4195 Jul 04 j 17:21	26° ♁ 05'45	
opposition	-4201 Jun 09 j 21:26	1° ♁ 31'02		opposition	-4195 Sep 18 j 19:05	24° ♁ 04'56	-0°53'54
min. Earth dist.	-4201 Aug 14 j 02:02	30° ♁		min. Earth dist.	-4195 Sep 18 j 16:19	24° ♁ 05'14	18.60612 AU
direct	-4201 Aug 26 j 01:03	29° ♁ 30'46	-0°53'40	direct	-4195 Dec 02 j 07:12	22° ♁ 05'43	
evening set	-4201 Aug 25 j 12:09	29° ♁ 32'06	18.89688 AU	evening set	-4194 Mar 03 j 11:34	25° ♁ 10'42	
conjunction	-4201 Nov 08 j 16:00	27° ♁ 33'16		conjunction	-4194 Mar 20 j 02:37	26° ♁ 07'58	-0°48'16
minimum elong	-4200 Jan 27 j 10:44	0° ♁		minimum elong	-4194 Mar 20 j 02:37	26° ♁ 07'58	0°48'23
max. Earth dist.	-4200 Feb 06 j 14:07	0° ♁ 33'10		max. Earth dist.	-4194 Mar 20 j 03:32	26° ♁ 08'06	20.57815 AU
morning rise	-4200 Feb 22 j 23:29	1° ♁ 28'54	-0°48'52	morning rise	-4194 Apr 05 j 20:15	27° ♁ 05'36	
retrograde	-4200 Feb 22 j 23:29	1° ♁ 28'54	0°49'02	retrograde	-4194 Jun 13 j 09:55	0° ♁	
opposition	-4200 Feb 23 j 12:31	1° ♁ 30'45	20.87596 AU	opposition	-4194 Jul 09 j 06:49	0° ♁ 16'48	
min. Earth dist.	-4200 Mar 10 j 12:40	2° ♁ 25'09		min. Earth dist.	-4194 Aug 04 j 04:47	30° ♁	
direct	-4200 Jun 13 j 07:16	5° ♁ 33'50		direct	-4194 Sep 23 j 03:30	28° ♁ 15'57	-0°52'57
evening set	-4200 Aug 29 j 07:20	3° ♁ 33'25	-0°54'23	evening set	-4194 Sep 23 j 03:21	28° ♁ 15'58	18.54961 AU
conjunction	-4200 Aug 28 j 20:19	3° ♁ 34'34	18.85470 AU	conjunction	-4194 Dec 06 j 15:43	26° ♁ 16'25	
minimum elong	-4200 Nov 11 j 21:07	1° ♁ 35'37		minimum elong	-4193 Mar 08 j 02:14	29° ♁ 22'29	
max. Earth dist.	-4199 Feb 09 j 23:44	4° ♁ 36'11		max. Earth dist.	-4193 Mar 18 j 23:59	0° ♁	
morning rise	-4199 Feb 26 j 10:15	5° ♁ 32'09	-0°49'23	morning rise	-4193 Mar 24 j 18:17	0° ♁ 20'03	-0°47'16
retrograde	-4199 Feb 26 j 10:15	5° ♁ 32'09	0°49'33	retrograde	-4193 Mar 24 j 18:17	0° ♁ 20'03	0°47'22
opposition	-4199 Feb 26 j 22:35	5° ♁ 33'54	20.83226 AU	opposition	-4193 Mar 24 j 17:50	0° ♁ 19'59	20.52028 AU
min. Earth dist.	-4199 Mar 15 j 00:07	6° ♁ 28'36		min. Earth dist.	-4193 Apr 10 j 12:16	1° ♁ 17'56	
direct	-4199 Jun 17 j 17:51	9° ♁ 37'36		direct	-4193 Jul 13 j 20:32	4° ♁ 29'39	
evening set	-4199 Sep 02 j 13:48	7° ♁ 37'05	-0°54'50	evening set	-4193 Sep 27 j 12:29	2° ♁ 28'44	-0°51'43
conjunction	-4199 Sep 02 j 04:05	7° ♁ 38'05	18.80960 AU	conjunction	-4193 Sep 27 j 13:55	2° ♁ 28'35	18.49030 AU
minimum elong	-4199 Nov 16 j 03:45	5° ♁ 38'59		minimum elong	-4193 Dec 11 j 01:01	0° ♁ 28'54	
max. Earth dist.	-4198 Feb 14 j 10:05	8° ♁ 40'16		max. Earth dist.	-4192 Mar 11 j 17:52	3° ♁ 36'05	
morning rise	-4198 Mar 02 j 21:28	9° ♁ 36'28	-0°49'40	morning rise	-4192 Mar 28 j 10:28	4° ♁ 33'55	-0°46'00
retrograde	-4198 Mar 02 j 21:28	9° ♁ 36'28	0°49'48	retrograde	-4192 Mar 28 j 10:29	4° ♁ 33'55	0°46'06
opposition	-4198 Mar 03 j 06:49	9° ♁ 37'48	20.78598 AU	opposition	-4192 Mar 28 j 06:16	4° ♁ 33'18	20.45960 AU
min. Earth dist.	-4198 Mar 19 j 12:20	10° ♁ 33'09		min. Earth dist.	-4192 Apr 14 j 05:04	5° ♁ 32'03	
direct	-4198 Jun 22 j 04:37	13° ♁ 42'32		direct	-4192 Jul 17 j 10:43	8° ♁ 44'18	
evening set	-4198 Sep 06 j 20:37	11° ♁ 41'53	-0°55'01	evening set	-4192 Sep 30 j 22:10	6° ♁ 43'18	-0°50'11
conjunction	-4198 Sep 06 j 12:54	11° ♁ 42'41	18.76210 AU	conjunction	-4192 Oct 01 j 02:22	6° ♁ 42'51	18.42830 AU
minimum elong	-4198 Nov 20 j 09:20	9° ♁ 43'29		minimum elong	-4192 Dec 14 j 11:19	4° ♁ 43'05	
max. Earth dist.	-4197 Feb 18 j 21:12	12° ♁ 45'36		max. Earth dist.	-4191 Mar 16 j 10:17	7° ♁ 51'24	
morning rise	-4197 Mar 07 j 09:42	13° ♁ 42'03	-0°49'42	morning rise	-4191 Apr 02 j 03:47	8° ♁ 49'33	-0°44'29
retrograde	-4197 Mar 07 j 09:42	13° ♁ 42'03	0°49'51	retrograde	-4191 Apr 02 j 03:47	8° ♁ 49'33	0°44'33
opposition	-4197 Mar 07 j 18:12	13° ♁ 43'16	20.73728 AU	opposition	-4191 Apr 01 j 22:04	8° ♁ 48'43	20.39626 AU
min. Earth dist.	-4197 Mar 24 j 01:10	14° ♁ 38'57		min. Earth dist.	-4191 Apr 18 j 22:38	9° ♁ 47'56	
direct	-4197 Mar 30 j 09:21	15° ♁		direct	-4191 Jul 22 j 01:14	13° ♁ 00'41	
evening set	-4197 Jun 26 j 16:23	17° ♁ 48'44		evening set	-4191 Oct 05 j 08:15	10° ♁ 59'34	-0°48'21
conjunction	-4197 Sep 11 j 03:35	15° ♁ 48'01	-0°54'56	conjunction	-4191 Oct 05 j 13:55	10° ♁ 58'58	18.36365 AU
minimum elong	-4197 Sep 10 j 21:14	15° ♁ 48'41	18.71222 AU	minimum elong	-4191 Dec 18 j 22:52	8° ♁ 58'58	
max. Earth dist.				max. Earth dist.	-4190 Mar 21 j 03:45	12° ♁ 08'27	
morning rise				morning rise			
retrograde				retrograde			
opposition				opposition			
min. Earth dist.				min. Earth dist.			
direct				direct			
evening set				evening set			

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 18

Attention, astronomical year style is used: The year -4190 in astronomical counting style is the year 4191 BCE in historical counting style.

conjunction	-4190 Apr 06 j 21:45	13° H 06'52	-0°42'41	retrograde	-4184 Aug 21 j 19:43	13° Y 42'17	
minimum elong	-4190 Apr 06 j 21:46	13° H 06'53	0°42'46	opposition	-4184 Nov 04 j 00:59	11° Y 40'16	-0°28'11
max. Earth dist.	-4190 Apr 06 j 12:19	13° H 05'30	20.33053 AU	min. Earth dist.	-4184 Nov 04 j 19:44	11° Y 38'14	17.89281 AU
morning rise	-4190 Apr 23 j 17:06	14° H 05'31		direct	-4183 Jan 18 j 04:09	9° Y 36'40	
retrograde	-4190 Jul 26 j 15:41	17° H 18'46		evening set	-4183 Apr 22 j 04:25	12° Y 54'52	
opposition	-4190 Oct 09 j 19:04	15° H 17'31	-0°46'15	max. Earth dist.	-4183 May 08 j 01:53	13° Y 51'48	19.86150 AU
min. Earth dist.	-4190 Oct 10 j 03:38	15° H 16'37	18.29694 AU				
direct	-4190 Dec 23 j 10:43	13° H 16'29		conjunction	-4183 May 09 j 00:43	13° Y 55'14	-0°23'40
evening set	-4189 Mar 25 j 21:57	16° H 27'09		minimum elong	-4183 May 09 j 00:43	13° Y 55'14	0°23'39
				morning rise	-4183 May 25 j 19:50	14° Y 55'28	
conjunction	-4189 Apr 11 j 16:41	17° H 25'53	-0°40'39	retrograde	-4183 Aug 26 j 15:56	18° Y 12'20	
minimum elong	-4189 Apr 11 j 16:41	17° H 25'53	0°40'42	opposition	-4183 Nov 08 j 16:24	16° Y 10'17	-0°24'23
max. Earth dist.	-4189 Apr 11 j 05:48	17° H 24'17	20.26300 AU	min. Earth dist.	-4183 Nov 09 j 11:30	16° Y 08'13	17.83094 AU
morning rise	-4189 Apr 28 j 12:08	18° H 24'45		direct	-4182 Jan 22 j 22:46	14° Y 06'21	
retrograde	-4189 Jul 31 j 07:18	21° H 38'30		evening set	-4182 Apr 27 j 04:29	17° Y 25'52	
opposition	-4189 Oct 14 j 06:17	19° H 37'07	-0°43'52	max. Earth dist.	-4182 May 13 j 00:13	18° Y 22'46	19.80083 AU
min. Earth dist.	-4189 Oct 14 j 16:04	19° H 36'04	18.22872 AU				
direct	-4189 Dec 28 j 00:27	17° H 35'39		conjunction	-4182 May 14 j 00:43	18° Y 26'28	-0°20'10
evening set	-4188 Mar 29 j 17:06	20° H 47'31		minimum elong	-4182 May 14 j 00:44	18° Y 26'28	0°20'08
				morning rise	-4182 May 30 j 19:22	19° Y 26'54	
conjunction	-4188 Apr 15 j 12:10	21° H 46'32	-0°38'22	retrograde	-4182 Aug 31 j 11:09	22° Y 44'18	
minimum elong	-4188 Apr 15 j 12:10	21° H 46'32	0°38'24	opposition	-4182 Nov 13 j 08:55	20° Y 42'15	-0°20'25
max. Earth dist.	-4188 Apr 14 j 22:01	21° H 44'27	20.19438 AU	min. Earth dist.	-4182 Nov 14 j 06:18	20° Y 39'56	17.77160 AU
morning rise	-4188 May 02 j 07:53	22° H 45'39		direct	-4181 Jan 27 j 16:05	18° Y 38'02	
retrograde	-4188 Aug 03 j 22:17	25° H 59'54		evening set	-4181 May 02 j 05:17	21° Y 58'50	
opposition	-4188 Oct 17 j 18:18	23° H 58'21	-0°41'12	max. Earth dist.	-4181 May 17 j 23:13	22° Y 55'43	19.74277 AU
min. Earth dist.	-4188 Oct 18 j 06:48	23° H 57'01	18.15997 AU				
direct	-4188 Dec 31 j 13:27	21° H 56'25		conjunction	-4181 May 19 j 01:17	22° Y 59'40	-0°16'31
evening set	-4187 Apr 03 j 12:45	25° H 09'31		minimum elong	-4181 May 19 j 01:17	22° Y 59'40	0°16'27
				morning rise	-4181 Jun 04 j 19:29	24° Y 00'17	
conjunction	-4187 Apr 20 j 08:24	26° H 08'49	-0°35'51	retrograde	-4181 Sep 05 j 08:42	27° Y 18'14	
minimum elong	-4187 Apr 20 j 08:24	26° H 08'49	0°35'52	opposition	-4181 Nov 18 j 02:06	25° Y 16'11	-0°16'17
max. Earth dist.	-4187 Apr 19 j 17:03	26° H 06'33	20.12561 AU	min. Earth dist.	-4181 Nov 18 j 23:49	25° Y 13'50	17.71477 AU
morning rise	-4187 May 07 j 04:08	27° H 08'11		direct	-4180 Feb 01 j 12:31	23° Y 11'42	
	-4187 Jul 10 j 00:56	0° Y		evening set	-4180 May 06 j 06:51	26° Y 33'46	
retrograde	-4187 Aug 08 j 15:29	0° Y 22'57		max. Earth dist.	-4180 May 21 j 23:28	27° Y 30'41	19.68706 AU
	-4187 Sep 07 j 10:54	30° R H					
opposition	-4187 Oct 22 j 06:50	28° H 21'15	-0°38'18	conjunction	-4180 May 23 j 02:37	27° Y 34'49	-0°12'44
min. Earth dist.	-4187 Oct 22 j 20:12	28° H 19'48	18.09128 AU	minimum elong	-4180 May 23 j 02:37	27° Y 34'49	0°12'40
direct	-4186 Jan 05 j 05:08	26° H 18'52		behind sun begin	-4180 May 22 j 22:26	27° Y 34'12	
evening set	-4186 Apr 08 j 09:35	29° H 33'13		behind sun end	-4180 May 23 j 06:48	27° Y 35'26	
	-4186 Apr 16 j 00:34	0° Y		morning rise	-4180 Jun 08 j 20:05	28° Y 35'35	
max. Earth dist.	-4186 Apr 24 j 11:16	0° Y 30'06	20.05720 AU		-4180 Jul 03 j 23:34	0° B	
				retrograde	-4180 Sep 09 j 05:16	1° B 54'03	
conjunction	-4186 Apr 25 j 05:26	0° Y 32'47	-0°33'06		-4180 Nov 18 j 19:03	30° R Y	
minimum elong	-4186 Apr 25 j 05:26	0° Y 32'47	0°33'06	opposition	-4180 Nov 21 j 20:20	29° Y 52'02	-0°12'00
morning rise	-4186 May 12 j 01:12	1° Y 32'23		min. Earth dist.	-4180 Nov 22 j 20:12	29° Y 49'26	17.66037 AU
retrograde	-4186 Aug 13 j 07:25	4° Y 47'39		direct	-4179 Feb 05 j 07:25	27° Y 47'17	
opposition	-4186 Oct 26 j 20:06	2° Y 45'49	-0°35'09		-4179 Apr 20 j 16:34	0° B	
min. Earth dist.	-4186 Oct 27 j 12:03	2° Y 44'06	18.02346 AU	evening set	-4179 May 11 j 09:07	1° B 10'35	
direct	-4185 Jan 09 j 19:18	0° Y 43'00		max. Earth dist.	-4179 May 26 j 23:20	2° B 07'22	19.63384 AU
evening set	-4185 Apr 13 j 07:05	3° Y 58'38					
max. Earth dist.	-4185 Apr 29 j 07:52	4° Y 55'35	19.99004 AU	conjunction	-4179 May 28 j 04:25	2° B 11'49	-0°08'51
				minimum elong	-4179 May 28 j 04:25	2° B 11'49	0°08'45
conjunction	-4185 Apr 30 j 03:16	4° Y 58'28	-0°30'09	behind sun begin	-4179 May 27 j 22:35	2° B 10'56	
minimum elong	-4185 Apr 30 j 03:16	4° Y 58'28	0°30'09	behind sun end	-4179 May 28 j 10:14	2° B 12'41	
morning rise	-4185 May 16 j 22:52	5° Y 58'17		morning rise	-4179 Jun 13 j 21:21	3° B 12'44	
retrograde	-4185 Aug 18 j 02:18	9° Y 14'05		retrograde	-4179 Sep 14 j 03:57	6° B 31'41	
opposition	-4185 Oct 31 j 10:06	7° Y 12'08	-0°31'47	opposition	-4179 Nov 26 j 15:18	4° B 29'40	-0°07'37
min. Earth dist.	-4185 Nov 01 j 02:33	7° Y 10'22	17.95710 AU	min. Earth dist.	-4179 Nov 27 j 15:28	4° B 27'02	17.60832 AU
direct	-4184 Jan 14 j 12:34	5° Y 08'55		direct	-4178 Feb 10 j 05:49	2° B 24'38	
evening set	-4184 Apr 17 j 05:20	8° Y 25'49		evening set	-4178 May 16 j 12:03	5° B 49'07	
max. Earth dist.	-4184 May 03 j 04:00	9° Y 22'42	19.92457 AU	max. Earth dist.	-4178 Jun 01 j 01:18	6° B 45'57	19.58286 AU
conjunction	-4184 May 04 j 01:32	9° Y 25'55	-0°27'00	conjunction	-4178 Jun 02 j 06:58	6° B 50'31	-0°04'53
minimum elong	-4184 May 04 j 01:33	9° Y 25'55	0°26'59	minimum elong	-4178 Jun 02 j 06:57	6° B 50'31	0°04'47
morning rise	-4184 May 20 j 20:55	10° Y 25'57		behind sun begin	-4178 Jun 02 j 00:20	6° B 49'31	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 19

Attention, astronomical year style is used: The year -4178 in astronomical counting style is the year 4179 BCE in historical counting style.

behind sun end	-4178 Jun 02 j 13:34	6° 8 51'30		max. Earth dist.	-4173 Jun 25 j 13:52	0° II 18'01	19.37806 AU
morning rise	-4178 Jun 18 j 22:54	7° 8 51'33		morning rise	-4173 Jul 13 j 09:46	1° II 24'27	
retrograde	-4178 Sep 19 j 01:29	11° 8 10'56		retrograde	-4173 Oct 12 j 18:26	4° II 45'25	
opposition	-4178 Dec 01 j 11:12	9° 8 08'56	-0°03'09	opposition	-4173 Dec 25 j 01:03	2° II 43'13	0°19'08
min. Earth dist.	-4178 Dec 02 j 13:12	9° 8 06'06	17.55865 AU	min. Earth dist.	-4173 Dec 26 j 04:41	2° II 40'12	17.36436 AU
direct	-4177 Feb 15 j 02:46	7° 8 03'39		direct	-4172 Mar 10 j 08:58	0° II 36'46	
evening set	-4177 May 21 j 15:35	10° 8 29'12		evening set	-4172 Jun 14 j 12:20	4° II 06'25	
max. Earth dist.	-4177 Jun 06 j 02:07	11° 8 25'52	19.53460 AU	max. Earth dist.	-4172 Jun 29 j 18:50	5° II 03'20	19.35119 AU
conjunction	-4177 Jun 07 j 09:44	11° 8 30'45	-0°00'49	conjunction	-4172 Jul 01 j 02:10	5° II 08'15	0°19'07
minimum elong	-4177 Jun 07 j 09:43	11° 8 30'45	0°00'42	minimum elong	-4172 Jul 01 j 02:10	5° II 08'14	0°19'16
behind sun begin	-4177 Jun 07 j 02:58	11° 8 29'44		morning rise	-4172 Jul 17 j 11:50	6° II 09'30	
behind sun end	-4177 Jun 07 j 16:29	11° 8 31'46		retrograde	-4172 Oct 16 j 17:56	9° II 30'39	
morning rise	-4177 Jun 24 j 00:57	12° 8 31'53		opposition	-4172 Dec 29 j 00:48	7° II 28'27	0°23'21
	-4177 Aug 11 j 06:52	15° 8		min. Earth dist.	-4172 Dec 30 j 03:55	7° II 25'30	17.34044 AU
asc. node	-4177 Aug 18 j 17:42	15° 8 15'40		direct	-4171 Mar 15 j 11:47	5° II 21'52	
retrograde	-4177 Sep 24 j 00:19	15° 8 51'41		evening set	-4171 Jun 19 j 16:45	8° II 52'02	
	-4177 Nov 07 j 15:51	15° 8		max. Earth dist.	-4171 Jul 04 j 21:44	9° II 48'52	19.33036 AU
opposition	-4177 Dec 06 j 07:49	13° 8 49'38	0°01'21	conjunction	-4171 Jul 06 j 05:20	9° II 53'50	0°22'49
min. Earth dist.	-4177 Dec 07 j 09:57	13° 8 46'47	17.51192 AU	minimum elong	-4171 Jul 06 j 05:20	9° II 53'50	0°23'00
direct	-4176 Feb 20 j 03:02	11° 8 44'05		morning rise	-4171 Jul 22 j 13:51	10° II 55'03	
	-4176 May 22 j 20:15	15° 8		retrograde	-4171 Oct 21 j 17:15	14° II 16'21	
evening set	-4176 May 25 j 19:11	15° 8 10'39		opposition	-4170 Jan 03 j 01:11	12° II 14'10	0°27'25
max. Earth dist.	-4176 Jun 10 j 05:28	16° 8 07'27	19.48937 AU	min. Earth dist.	-4170 Jan 04 j 03:59	12° II 11'15	17.32289 AU
conjunction	-4176 Jun 11 j 12:47	16° 8 12'18	0°03'20	direct	-4170 Mar 20 j 14:13	10° II 07'29	
minimum elong	-4176 Jun 11 j 12:47	16° 8 12'18	0°03'28	evening set	-4170 Jun 24 j 20:56	13° II 38'05	
behind sun begin	-4176 Jun 11 j 06:04	16° 8 11'18		max. Earth dist.	-4170 Jul 10 j 02:39	14° II 35'08	19.31603 AU
behind sun end	-4176 Jun 11 j 19:29	16° 8 13'19		conjunction	-4170 Jul 11 j 08:25	14° II 39'50	0°26'23
morning rise	-4176 Jun 28 j 02:53	17° 8 13'31		minimum elong	-4170 Jul 11 j 08:25	14° II 39'50	0°26'33
retrograde	-4176 Sep 27 j 22:21	20° 8 33'41		morning rise	-4170 Jul 27 j 15:35	15° II 40'59	
opposition	-4176 Dec 10 j 05:14	18° 8 31'36	0°05'52	retrograde	-4170 Oct 26 j 18:22	19° II 02'22	
min. Earth dist.	-4176 Dec 11 j 08:34	18° 8 28'37	17.46844 AU	opposition	-4169 Jan 08 j 02:03	17° II 00'16	0°31'18
direct	-4175 Feb 24 j 02:08	16° 8 25'48		min. Earth dist.	-4169 Jan 09 j 03:31	16° II 57'30	17.31173 AU
evening set	-4175 May 30 j 23:23	19° 8 53'17		direct	-4169 Mar 25 j 18:04	14° II 53'36	
max. Earth dist.	-4175 Jun 15 j 07:04	20° 8 49'54	19.44783 AU	evening set	-4169 Jun 30 j 01:04	18° II 24'29	
conjunction	-4175 Jun 16 j 16:01	20° 8 55'01	0°07'22	max. Earth dist.	-4169 Jul 15 j 06:02	19° II 21'33	19.30819 AU
minimum elong	-4175 Jun 16 j 16:02	20° 8 55'01	0°07'30	conjunction	-4169 Jul 16 j 11:14	19° II 26'09	0°29'46
behind sun begin	-4175 Jun 16 j 09:53	20° 8 54'06		minimum elong	-4169 Jul 16 j 11:14	19° II 26'09	0°29'57
behind sun end	-4175 Jun 16 j 22:10	20° 8 55'57		morning rise	-4169 Aug 01 j 17:08	20° II 27'13	
morning rise	-4175 Jul 03 j 05:17	21° 8 56'17		retrograde	-4169 Oct 31 j 17:41	23° II 48'42	
retrograde	-4175 Oct 02 j 21:06	25° 8 16'46		opposition	-4168 Jan 13 j 03:26	21° II 46'41	0°34'58
opposition	-4175 Dec 15 j 03:04	23° 8 14'38	0°10'22	min. Earth dist.	-4168 Jan 14 j 04:35	21° II 43'58	17.30723 AU
min. Earth dist.	-4175 Dec 16 j 06:30	23° 8 11'38	17.42900 AU	direct	-4168 Mar 29 j 19:47	19° II 40'03	
direct	-4174 Mar 01 j 04:27	21° 8 08'35		evening set	-4168 Jul 04 j 04:45	23° II 11'09	
evening set	-4174 Jun 05 j 03:40	24° 8 36'54		max. Earth dist.	-4168 Jul 19 j 10:14	24° II 08'23	19.30686 AU
max. Earth dist.	-4174 Jun 20 j 11:36	25° 8 33'43	19.41050 AU	conjunction	-4168 Jul 20 j 13:42	24° II 12'43	0°32'57
conjunction	-4174 Jun 21 j 19:34	25° 8 38'42	0°11'21	minimum elong	-4168 Jul 20 j 13:42	24° II 12'43	0°33'09
minimum elong	-4174 Jun 21 j 19:35	25° 8 38'42	0°11'31	morning rise	-4168 Aug 05 j 18:21	25° II 13'40	
behind sun begin	-4174 Jun 21 j 14:47	25° 8 37'58		retrograde	-4168 Nov 04 j 19:42	28° II 35'11	
behind sun end	-4174 Jun 22 j 00:23	25° 8 39'26		opposition	-4167 Jan 17 j 05:08	26° II 33'18	0°38'25
morning rise	-4174 Jul 08 j 07:35	26° 8 39'59		min. Earth dist.	-4167 Jan 18 j 04:31	26° II 30'46	17.30877 AU
	-4174 Oct 02 j 19:10	0° II		direct	-4167 Apr 04 j 00:40	24° II 26'47	
retrograde	-4174 Oct 07 j 19:29	0° II 00'43		evening set	-4167 Jul 09 j 08:22	27° II 57'57	
	-4174 Oct 12 j 20:27	30° 8		conjunction	-4167 Jul 25 j 16:00	28° II 59'23	0°35'55
opposition	-4174 Dec 20 j 01:48	27° 8 58'34	0°14'48	minimum elong	-4167 Jul 25 j 16:00	28° II 59'23	0°36'06
min. Earth dist.	-4174 Dec 21 j 05:37	27° 8 55'32	17.39401 AU	max. Earth dist.	-4167 Jul 24 j 13:44	28° II 55'14	19.31129 AU
direct	-4173 Mar 06 j 05:52	25° 8 52'18		morning rise	-4167 Aug 10 j 19:17	0° III 00'12	
evening set	-4173 Jun 10 j 08:03	29° 8 21'20			-4167 Aug 10 j 18:01	0° III	
	-4173 Jun 20 j 18:36	0° II		retrograde	-4167 Nov 09 j 18:29	3° III 21'43	
conjunction	-4173 Jun 26 j 22:47	0° II 23'09	0°15'17	opposition	-4166 Jan 22 j 07:15	1° III 19'57	0°41'35
minimum elong	-4173 Jun 26 j 22:47	0° II 23'09	0°15'27	min. Earth dist.	-4166 Jan 23 j 06:29	1° III 17'27	17.31605 AU
behind sun begin	-4173 Jun 26 j 21:11	0° II 22'55			-4166 Feb 24 j 17:28	30° 8 II	
behind sun end	-4173 Jun 27 j 00:23	0° II 23'24					

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 20

Attention, astronomical year style is used: The year -4166 in astronomical counting style is the year 4167 BCE in historical counting style.

direct	-4166 Apr 09 j 03:03	29° Π 13'34	conjunction	-4160 Aug 27 j 16:37	2° Ω 11'55	0°48'43
	-4166 May 21 j 14:37	0° Θ	minimum elong	-4160 Aug 27 j 16:37	2° Ω 11'55	0°48'53
evening set	-4166 Jul 14 j 11:38	2° Θ 44'43	max. Earth dist.	-4160 Aug 27 j 02:12	2° Ω 09'39	19.47622 AU
			morning rise	-4160 Sep 12 j 11:53	3° Ω 11'19	
conjunction	-4166 Jul 30 j 17:54	3° Θ 45'59 0°38'38	retrograde	-4160 Dec 12 j 12:44	6° Ω 31'21	
minimum elong	-4166 Jul 30 j 17:53	3° Θ 45'59 0°38'50	opposition	-4159 Feb 25 j 01:20	4° Ω 30'09	0°54'39
max. Earth dist.	-4166 Jul 29 j 16:57	3° Θ 42'02 19.32127 AU	min. Earth dist.	-4159 Feb 25 j 12:45	4° Ω 28'57	17.49632 AU
morning rise	-4166 Aug 15 j 19:57	4° Θ 46'38	direct	-4159 May 13 j 09:31	2° Ω 25'08	
retrograde	-4166 Nov 14 j 20:08	8° Θ 08'06	evening set	-4159 Aug 16 j 16:08	5° Ω 52'29	
opposition	-4165 Jan 27 j 09:42	6° Θ 06'27 0°44'28				
min. Earth dist.	-4165 Jan 28 j 06:46	6° Θ 04'11 17.32849 AU	conjunction	-4159 Sep 01 j 13:43	6° Ω 52'06	0°49'17
direct	-4165 Apr 14 j 08:55	4° Θ 00'14	minimum elong	-4159 Sep 01 j 13:43	6° Ω 52'06	0°49'26
evening set	-4165 Jul 19 j 14:16	7° Θ 31'12	max. Earth dist.	-4159 Sep 01 j 02:49	6° Ω 50'23	19.51708 AU
			morning rise	-4159 Sep 17 j 07:51	7° Ω 51'14	
conjunction	-4165 Aug 04 j 19:16	8° Θ 32'17 0°41'05	retrograde	-4159 Dec 17 j 09:20	11° Ω 10'53	
minimum elong	-4165 Aug 04 j 19:15	8° Θ 32'17 0°41'15	opposition	-4158 Mar 02 j 03:18	9° Ω 09'44	0°55'05
max. Earth dist.	-4165 Aug 03 j 20:14	8° Θ 28'39 19.33612 AU	min. Earth dist.	-4158 Mar 02 j 13:00	9° Ω 08'43	17.53940 AU
morning rise	-4165 Aug 20 j 19:57	9° Θ 32'45	direct	-4158 May 18 j 11:39	7° Ω 05'00	
retrograde	-4165 Nov 19 j 18:31	12° Θ 54'07	evening set	-4158 Aug 21 j 13:28	10° Ω 31'24	
opposition	-4164 Feb 01 j 12:30	10° Θ 52'36 0°47'02				
min. Earth dist.	-4164 Feb 02 j 09:17	10° Θ 50'22 17.34576 AU	conjunction	-4158 Sep 06 j 09:46	11° Ω 30'43	0°49'31
direct	-4164 Apr 18 j 11:53	8° Θ 46'33	minimum elong	-4158 Sep 06 j 09:46	11° Ω 30'43	0°49'39
evening set	-4164 Jul 23 j 16:33	12° Θ 17'13	max. Earth dist.	-4158 Sep 06 j 00:20	11° Ω 29'14	19.56259 AU
			morning rise	-4158 Sep 22 j 03:13	12° Ω 29'36	
conjunction	-4164 Aug 08 j 20:07	13° Θ 18'05 0°43'14		-4158 Nov 09 j 18:53	15° Ω	
minimum elong	-4164 Aug 08 j 20:07	13° Θ 18'05 0°43'25	retrograde	-4158 Dec 22 j 07:10	15° Ω 48'50	
max. Earth dist.	-4164 Aug 07 j 22:06	13° Θ 14'36 19.35570 AU		-4157 Feb 04 j 13:45	15° κ Ω	
morning rise	-4164 Aug 24 j 19:42	14° Θ 18'22	opposition	-4157 Mar 07 j 04:53	13° Ω 47'45	0°55'09
retrograde	-4164 Nov 23 j 19:23	17° Θ 39'33	min. Earth dist.	-4157 Mar 07 j 11:41	13° Ω 47'02	17.58731 AU
opposition	-4163 Feb 05 j 15:02	15° Θ 38'08 0°49'16	direct	-4157 May 23 j 12:52	11° Ω 43'20	
min. Earth dist.	-4163 Feb 06 j 09:27	15° Θ 36'09 17.36745 AU		-4157 Aug 24 j 00:28	15° Ω	
direct	-4163 Apr 23 j 18:04	13° Θ 32'16	evening set	-4157 Aug 26 j 09:34	15° Ω 08'42	
evening set	-4163 Jul 28 j 18:08	17° Θ 02'30				
			conjunction	-4157 Sep 11 j 05:02	16° Ω 07'43	0°49'26
conjunction	-4163 Aug 13 j 20:31	18° Θ 03'09 0°45'05	minimum elong	-4157 Sep 11 j 05:02	16° Ω 07'43	0°49'33
minimum elong	-4163 Aug 13 j 20:31	18° Θ 03'09 0°45'16	max. Earth dist.	-4157 Sep 10 j 23:19	16° Ω 06'50	19.61282 AU
max. Earth dist.	-4163 Aug 13 j 00:55	18° Θ 00'03 19.37949 AU	morning rise	-4157 Sep 26 j 21:34	17° Ω 06'21	
morning rise	-4163 Aug 29 j 18:46	19° Θ 03'13	retrograde	-4157 Dec 27 j 03:27	20° Ω 25'09	
retrograde	-4163 Nov 28 j 17:08	22° Θ 24'12	opposition	-4156 Mar 11 j 06:01	18° Ω 24'11	0°54'52
opposition	-4162 Feb 10 j 17:57	20° Θ 22'51 0°51'10	min. Earth dist.	-4156 Mar 11 j 10:32	18° Ω 23'42	17.63970 AU
min. Earth dist.	-4162 Feb 11 j 11:50	20° Θ 20'57 17.39333 AU	direct	-4156 May 27 j 13:46	16° Ω 20'08	
direct	-4162 Apr 28 j 21:23	18° Θ 17'11	evening set	-4156 Aug 30 j 05:02	19° Ω 44'25	
evening set	-4162 Aug 02 j 19:00	21° Θ 46'52				
			conjunction	-4156 Sep 14 j 23:24	20° Ω 43'09	0°49'02
conjunction	-4162 Aug 18 j 19:57	22° Θ 47'17 0°46'37	minimum elong	-4156 Sep 14 j 23:24	20° Ω 43'09	0°49'10
minimum elong	-4162 Aug 18 j 19:57	22° Θ 47'17 0°46'48	max. Earth dist.	-4156 Sep 14 j 19:15	20° Ω 42'30	19.66746 AU
max. Earth dist.	-4162 Aug 18 j 01:21	22° Θ 44'20 19.40753 AU	morning rise	-4156 Sep 30 j 15:23	21° Ω 41'31	
morning rise	-4162 Sep 03 j 17:13	23° Θ 47'08	retrograde	-4156 Dec 31 j 00:27	24° Ω 59'52	
retrograde	-4162 Dec 03 j 17:02	27° Θ 07'51	opposition	-4155 Mar 16 j 06:32	22° Ω 59'01	0°54'14
opposition	-4161 Feb 15 j 20:38	25° Θ 06'34 0°52'41	min. Earth dist.	-4155 Mar 16 j 08:33	22° Ω 58'49	17.69643 AU
min. Earth dist.	-4161 Feb 16 j 11:50	25° Θ 04'57 17.42340 AU	direct	-4155 Jun 01 j 13:27	20° Ω 55'22	
direct	-4161 May 04 j 02:55	23° Θ 01'06	evening set	-4155 Sep 03 j 23:28	24° Ω 18'33	
evening set	-4161 Aug 07 j 18:56	26° Θ 30'07				
			conjunction	-4155 Sep 19 j 17:06	25° Ω 16'59	0°48'20
conjunction	-4161 Aug 23 j 18:50	27° Θ 30'16 0°47'50	minimum elong	-4155 Sep 19 j 17:06	25° Ω 16'59	0°48'26
minimum elong	-4161 Aug 23 j 18:49	27° Θ 30'16 0°48'01	max. Earth dist.	-4155 Sep 19 j 16:26	25° Ω 16'53	19.72612 AU
max. Earth dist.	-4161 Aug 23 j 03:17	27° Θ 27'49 19.43971 AU	morning rise	-4155 Oct 05 j 08:21	26° Ω 15'06	
morning rise	-4161 Sep 08 j 14:53	28° Θ 29'53	retrograde	-4154 Jan 04 j 20:05	29° Ω 32'59	
	-4161 Oct 04 j 16:39	0° Ω	opposition	-4154 Mar 21 j 06:45	27° Ω 32'18	0°53'16
retrograde	-4161 Dec 08 j 14:10	1° Ω 50'17	min. Earth dist.	-4154 Mar 21 j 06:12	27° Ω 32'21	17.75666 AU
	-4160 Feb 16 j 16:01	30° κ Θ	direct	-4154 Jun 06 j 13:34	25° Ω 29'06	
opposition	-4160 Feb 20 j 23:11	29° Θ 49'03 0°53'51	evening set	-4154 Sep 08 j 17:00	28° Ω 51'06	
min. Earth dist.	-4160 Feb 21 j 13:21	29° Θ 47'33 17.45767 AU				
direct	-4160 May 08 j 05:58	27° Θ 43'49	conjunction	-4154 Sep 24 j 09:42	29° Ω 49'15	0°47'20
	-4160 Jul 22 j 06:27	0° Ω	minimum elong	-4154 Sep 24 j 09:42	29° Ω 49'15	0°47'27
evening set	-4160 Aug 11 j 18:04	1° Ω 12'02	max. Earth dist.	-4154 Sep 24 j 10:45	29° Ω 49'24	19.78795 AU
				-4154 Sep 27 j 06:51	0° Π	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 21

Attention, astronomical year style is used: The year -4154 in astronomical counting style is the year 4155 BCE in historical counting style.

morning rise	-4154 Oct 10 j 00:34	0° <u>0</u> 47'06		evening set	-4147 Oct 08 j 19:56	29° <u>0</u> 50'02	
retrograde	-4153 Jan 09 j 16:01	4° <u>0</u> 04'32			-4147 Oct 11 j 15:07	0° <u>0</u>	
opposition	-4153 Mar 26 j 06:32	2° <u>0</u> 03'59	0°51'59				
min. Earth dist.	-4153 Mar 26 j 03:55	2° <u>0</u> 04'15	17.81991 AU	conjunction	-4147 Oct 24 j 09:32	0° <u>0</u> 46'13	0°33'06
direct	-4153 Jun 11 j 12:01	0° <u>0</u> 01'14		minimum elong	-4147 Oct 24 j 09:32	0° <u>0</u> 46'13	0°33'07
evening set	-4153 Sep 13 j 09:39	3° <u>0</u> 22'02		max. Earth dist.	-4147 Oct 25 j 01:02	0° <u>0</u> 48'34	20.24980 AU
				morning rise	-4147 Nov 08 j 23:13	1° <u>0</u> 42'26	
conjunction	-4153 Sep 29 j 01:47	4° <u>0</u> 19'53	0°46'03	retrograde	-4146 Feb 09 j 11:32	4° <u>0</u> 56'04	
minimum elong	-4153 Sep 29 j 01:47	4° <u>0</u> 19'53	0°46'08	opposition	-4146 Apr 27 j 10:25	2° <u>0</u> 56'08	0°35'09
max. Earth dist.	-4153 Sep 29 j 05:54	4° <u>0</u> 20'31	19.85235 AU	min. Earth dist.	-4146 Apr 26 j 17:37	2° <u>0</u> 57'51	18.28197 AU
morning rise	-4153 Oct 14 j 16:09	5° <u>0</u> 17'29		direct	-4146 Jul 13 j 08:54	0° <u>0</u> 56'11	
retrograde	-4152 Jan 14 j 10:19	8° <u>0</u> 34'24		evening set	-4146 Oct 13 j 06:33	4° <u>0</u> 07'52	
opposition	-4152 Mar 30 j 05:31	6° <u>0</u> 34'01	0°50'22				
min. Earth dist.	-4152 Mar 30 j 00:16	6° <u>0</u> 34'33	17.88513 AU	conjunction	-4146 Oct 28 j 19:59	5° <u>0</u> 03'48	0°30'15
direct	-4152 Jun 15 j 11:20	4° <u>0</u> 31'44		minimum elong	-4146 Oct 28 j 19:59	5° <u>0</u> 03'49	0°30'14
evening set	-4152 Sep 17 j 01:33	7° <u>0</u> 51'17		max. Earth dist.	-4146 Oct 29 j 13:29	5° <u>0</u> 06'27	20.31399 AU
				morning rise	-4146 Nov 13 j 09:53	5° <u>0</u> 59'49	
conjunction	-4152 Oct 02 j 16:57	8° <u>0</u> 48'50	0°44'29	retrograde	-4145 Feb 14 j 00:11	9° <u>0</u> 12'54	
minimum elong	-4152 Oct 02 j 16:58	8° <u>0</u> 48'50	0°44'34	min. Earth dist.	-4145 May 01 j 11:05	7° <u>0</u> 14'45	18.34593 AU
max. Earth dist.	-4152 Oct 02 j 22:39	8° <u>0</u> 49'43	19.91829 AU	opposition	-4145 May 02 j 04:37	7° <u>0</u> 12'58	0°31'53
morning rise	-4152 Oct 18 j 07:04	9° <u>0</u> 46'12		direct	-4145 Jul 18 j 00:02	5° <u>0</u> 13'21	
retrograde	-4151 Jan 18 j 04:17	13° <u>0</u> 02'37		evening set	-4145 Oct 17 j 16:27	8° <u>0</u> 23'45	
opposition	-4151 Apr 04 j 04:07	11° <u>0</u> 02'21	0°48'28				
min. Earth dist.	-4151 Apr 03 j 21:24	11° <u>0</u> 03'03	17.95169 AU	conjunction	-4145 Nov 02 j 05:52	9° <u>0</u> 19'27	0°27'15
direct	-4151 Jun 20 j 08:16	9° <u>0</u> 00'31		minimum elong	-4145 Nov 02 j 05:52	9° <u>0</u> 19'27	0°27'13
evening set	-4151 Sep 21 j 16:28	12° <u>0</u> 18'48		max. Earth dist.	-4145 Nov 03 j 01:04	9° <u>0</u> 22'20	20.37767 AU
				morning rise	-4145 Nov 17 j 20:01	10° <u>0</u> 15'16	
conjunction	-4151 Oct 07 j 07:23	13° <u>0</u> 16'04	0°42'40	retrograde	-4144 Feb 18 j 14:28	13° <u>0</u> 27'47	
minimum elong	-4151 Oct 07 j 07:23	13° <u>0</u> 16'04	0°42'44	opposition	-4144 May 05 j 21:35	11° <u>0</u> 27'53	0°28'28
max. Earth dist.	-4151 Oct 07 j 15:39	13° <u>0</u> 17'20	19.98518 AU	min. Earth dist.	-4144 May 05 j 01:15	11° <u>0</u> 29'57	18.40934 AU
morning rise	-4151 Oct 22 j 21:09	14° <u>0</u> 13'10		direct	-4144 Jul 21 j 16:03	9° <u>0</u> 28'35	
retrograde	-4150 Jan 22 j 21:35	17° <u>0</u> 29'04		evening set	-4144 Oct 21 j 01:38	12° <u>0</u> 37'46	
opposition	-4150 Apr 09 j 02:03	15° <u>0</u> 28'56	0°46'17				
min. Earth dist.	-4150 Apr 08 j 16:35	15° <u>0</u> 29'54	18.01866 AU	conjunction	-4144 Nov 05 j 15:03	13° <u>0</u> 33'15	0°24'08
direct	-4150 Jun 25 j 06:17	13° <u>0</u> 27'32		minimum elong	-4144 Nov 05 j 15:03	13° <u>0</u> 33'15	0°24'06
evening set	-4150 Sep 26 j 06:42	16° <u>0</u> 44'30		max. Earth dist.	-4144 Nov 06 j 12:16	13° <u>0</u> 36'25	20.44073 AU
				morning rise	-4144 Nov 21 j 05:30	14° <u>0</u> 28'54	
conjunction	-4150 Oct 11 j 21:05	17° <u>0</u> 41'29	0°40'36	retrograde	-4143 Feb 22 j 02:01	17° <u>0</u> 40'53	
minimum elong	-4150 Oct 11 j 21:05	17° <u>0</u> 41'29	0°40'38	opposition	-4143 May 10 j 14:05	15° <u>0</u> 41'02	0°24'55
max. Earth dist.	-4150 Oct 12 j 06:58	17° <u>0</u> 42'59	20.05217 AU	min. Earth dist.	-4143 May 09 j 17:06	15° <u>0</u> 43'09	18.47220 AU
morning rise	-4150 Oct 27 j 10:45	18° <u>0</u> 38'21		direct	-4143 Jul 26 j 05:22	13° <u>0</u> 42'05	
retrograde	-4149 Jan 27 j 13:34	21° <u>0</u> 53'43		evening set	-4143 Oct 25 j 10:00	16° <u>0</u> 50'04	
opposition	-4149 Apr 13 j 23:24	19° <u>0</u> 53'39	0°43'50				
min. Earth dist.	-4149 Apr 13 j 12:52	19° <u>0</u> 54'44	18.08565 AU	conjunction	-4143 Nov 09 j 23:31	17° <u>0</u> 45'21	0°20'54
direct	-4149 Jun 30 j 01:16	17° <u>0</u> 52'39		minimum elong	-4143 Nov 09 j 23:31	17° <u>0</u> 45'21	0°20'50
evening set	-4149 Sep 30 j 19:55	21° <u>0</u> 08'19		max. Earth dist.	-4143 Nov 10 j 22:11	17° <u>0</u> 48'44	20.50329 AU
				morning rise	-4143 Nov 25 j 14:21	18° <u>0</u> 40'51	
conjunction	-4149 Oct 16 j 10:01	22° <u>0</u> 05'01	0°38'18	retrograde	-4142 Feb 26 j 15:30	21° <u>0</u> 52'21	
minimum elong	-4149 Oct 16 j 10:01	22° <u>0</u> 05'01	0°38'20	min. Earth dist.	-4142 May 14 j 06:01	19° <u>0</u> 54'57	18.53434 AU
max. Earth dist.	-4149 Oct 16 j 22:00	22° <u>0</u> 06'51	20.11892 AU	opposition	-4142 May 15 j 05:43	19° <u>0</u> 52'34	0°21'17
morning rise	-4149 Oct 31 j 23:36	23° <u>0</u> 01'40		direct	-4142 Jul 30 j 19:07	17° <u>0</u> 53'58	
retrograde	-4148 Feb 01 j 05:59	26° <u>0</u> 16'28		evening set	-4142 Oct 29 j 17:52	21° <u>0</u> 00'50	
opposition	-4148 Apr 17 j 19:50	24° <u>0</u> 16'28	0°41'09				
min. Earth dist.	-4148 Apr 17 j 06:35	24° <u>0</u> 17'49	18.15193 AU	conjunction	-4142 Nov 14 j 07:35	21° <u>0</u> 55'57	0°17'35
direct	-4148 Jul 03 j 21:35	22° <u>0</u> 15'51		minimum elong	-4142 Nov 14 j 07:35	21° <u>0</u> 55'57	0°17'32
evening set	-4148 Oct 04 j 08:24	25° <u>0</u> 30'10		max. Earth dist.	-4142 Nov 15 j 08:12	21° <u>0</u> 59'36	20.56483 AU
				morning rise	-4142 Nov 29 j 22:51	22° <u>0</u> 51'17	
conjunction	-4148 Oct 19 j 22:09	26° <u>0</u> 26'37	0°35'48	retrograde	-4141 Mar 03 j 02:24	26° <u>0</u> 02'19	
minimum elong	-4148 Oct 19 j 22:09	26° <u>0</u> 26'37	0°35'48	opposition	-4141 May 19 j 20:37	24° <u>0</u> 02'38	0°17'32
max. Earth dist.	-4148 Oct 20 j 11:46	26° <u>0</u> 28'41	20.18473 AU	min. Earth dist.	-4141 May 18 j 20:34	24° <u>0</u> 05'03	18.59531 AU
morning rise	-4148 Nov 04 j 11:46	27° <u>0</u> 23'03		direct	-4141 Aug 04 j 06:51	22° <u>0</u> 04'25	
	-4148 Dec 28 j 17:49	0° <u>0</u>		evening set	-4141 Nov 03 j 01:10	25° <u>0</u> 10'13	
retrograde	-4147 Feb 04 j 20:06	0° <u>0</u> 37'16					
	-4147 Mar 16 j 08:07	30° <u>0</u> 8'00		conjunction	-4141 Nov 18 j 15:08	26° <u>0</u> 05'08	0°14'11
opposition	-4147 Apr 22 j 15:33	28° <u>0</u> 37'19	0°38'14	minimum elong	-4141 Nov 18 j 15:08	26° <u>0</u> 05'08	0°14'06
min. Earth dist.	-4147 Apr 22 j 01:34	28° <u>0</u> 38'44	18.21737 AU	behind sun begin	-4141 Nov 18 j 11:46	26° <u>0</u> 04'39	
direct	-4147 Jul 08 j 14:29	26° <u>0</u> 37'02		behind sun end	-4141 Nov 18 j 18:30	26° <u>0</u> 05'38	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 22

Attention, astronomical year style is used: The year -4141 in astronomical counting style is the year 4142 BCE in historical counting style.

max. Earth dist.	-4141 Nov 19 j 16:42	26° \mathring{A} 08'55	20.62504 AU	max. Earth dist.	-4136 Dec 09 j 05:48	16° \mathring{M} 38'11	20.88135 AU
morning rise	-4141 Dec 04 j 06:59	27° \mathring{A} 00'21		morning rise	-4136 Dec 23 j 19:18	17° \mathring{M} 28'38	
	-4140 Feb 14 j 15:55	0° \mathring{M}		retrograde	-4135 Mar 27 j 19:45	20° \mathring{M} 37'26	
retrograde	-4140 Mar 06 j 15:25	0° \mathring{M} 10'57		opposition	-4135 Jun 13 j 23:53	18° \mathring{M} 38'12	-0°05'44
	-4140 Mar 27 j 22:12	30° \mathring{R} \mathring{A}		min. Earth dist.	-4135 Jun 12 j 19:59	18° \mathring{M} 40'59	18.90147 AU
min. Earth dist.	-4140 May 22 j 08:28	28° \mathring{A} 14'01	18.65453 AU	direct	-4135 Aug 28 j 19:13	16° \mathring{M} 41'43	
opposition	-4140 May 23 j 10:43	28° \mathring{A} 11'23	0°13'44	evening set	-4135 Nov 26 j 13:17	19° \mathring{M} 42'17	
direct	-4140 Aug 07 j 18:30	26° \mathring{A} 13'30					
evening set	-4140 Nov 06 j 07:59	29° \mathring{A} 18'18		conjunction	-4135 Dec 12 j 06:01	20° \mathring{M} 36'31	-0°06'56
	-4140 Nov 18 j 05:33	0° \mathring{M}		minimum elong	-4135 Dec 12 j 06:00	20° \mathring{M} 36'31	0°07'04
				behind sun begin	-4135 Dec 11 j 23:56	20° \mathring{M} 35'40	
conjunction	-4140 Nov 21 j 22:15	0° \mathring{M} 13'05	0°10'44	behind sun end	-4135 Dec 12 j 12:05	20° \mathring{M} 37'23	
minimum elong	-4140 Nov 21 j 22:15	0° \mathring{M} 13'05	0°10'39	max. Earth dist.	-4135 Dec 13 j 11:08	20° \mathring{M} 40'45	20.91968 AU
behind sun begin	-4140 Nov 21 j 17:08	0° \mathring{M} 12'21		morning rise	-4135 Dec 28 j 01:59	21° \mathring{M} 31'13	
behind sun end	-4140 Nov 22 j 03:21	0° \mathring{M} 13'49		retrograde	-4134 Apr 01 j 06:34	24° \mathring{M} 39'43	
max. Earth dist.	-4140 Nov 23 j 01:27	0° \mathring{M} 17'05	20.68301 AU	min. Earth dist.	-4134 Jun 17 j 05:41	22° \mathring{M} 43'18	18.93732 AU
morning rise	-4140 Dec 07 j 14:36	1° \mathring{M} 08'10		opposition	-4134 Jun 18 j 10:18	22° \mathring{M} 40'27	-0°09'34
retrograde	-4139 Mar 11 j 01:23	4° \mathring{M} 18'22		direct	-4134 Sep 02 j 04:34	20° \mathring{M} 44'05	
min. Earth dist.	-4139 May 26 j 22:00	2° \mathring{M} 21'32	18.71128 AU	evening set	-4134 Nov 30 j 18:20	23° \mathring{M} 43'58	
opposition	-4139 May 28 j 00:16	2° \mathring{M} 18'54	0°09'52				
direct	-4139 Aug 12 j 05:18	0° \mathring{M} 21'24		conjunction	-4134 Dec 16 j 11:47	24° \mathring{M} 38'10	-0°10'21
evening set	-4139 Nov 10 j 14:27	3° \mathring{M} 25'14		minimum elong	-4134 Dec 16 j 11:46	24° \mathring{M} 38'10	0°10'30
				behind sun begin	-4134 Dec 16 j 06:37	24° \mathring{M} 37'26	
conjunction	-4139 Nov 26 j 05:05	4° \mathring{M} 19'52	0°07'15	behind sun end	-4134 Dec 16 j 16:56	24° \mathring{M} 38'53	
minimum elong	-4139 Nov 26 j 05:04	4° \mathring{M} 19'52	0°07'09	max. Earth dist.	-4134 Dec 17 j 17:40	24° \mathring{M} 42'29	20.95298 AU
behind sun begin	-4139 Nov 25 j 23:02	4° \mathring{M} 19'00		morning rise	-4133 Jan 01 j 08:33	25° \mathring{M} 32'50	
behind sun end	-4139 Nov 26 j 11:07	4° \mathring{M} 20'44		retrograde	-4133 Apr 05 j 14:06	28° \mathring{M} 41'00	
max. Earth dist.	-4139 Nov 27 j 08:44	4° \mathring{M} 23'56	20.73840 AU	opposition	-4133 Jun 22 j 19:59	26° \mathring{M} 41'41	-0°13'20
morning rise	-4139 Dec 11 j 22:05	5° \mathring{M} 14'50		min. Earth dist.	-4133 Jun 21 j 16:12	26° \mathring{M} 44'28	18.96827 AU
retrograde	-4138 Mar 15 j 14:16	8° \mathring{M} 24'41		direct	-4133 Sep 06 j 11:41	24° \mathring{M} 45'25	
min. Earth dist.	-4138 May 31 j 09:09	6° \mathring{M} 28'06	18.76509 AU	evening set	-4133 Dec 04 j 23:09	27° \mathring{M} 44'41	
opposition	-4138 Jun 01 j 13:06	6° \mathring{M} 25'18	0°05'58				
direct	-4138 Aug 16 j 15:40	4° \mathring{M} 28'06		conjunction	-4133 Dec 20 j 17:16	28° \mathring{M} 38'49	-0°13'43
evening set	-4138 Nov 14 j 20:34	7° \mathring{M} 31'03		minimum elong	-4133 Dec 20 j 17:16	28° \mathring{M} 38'49	0°13'52
				behind sun begin	-4133 Dec 20 j 13:46	28° \mathring{M} 38'20	
conjunction	-4138 Nov 30 j 11:39	8° \mathring{M} 25'34	0°03'44	behind sun end	-4133 Dec 20 j 20:45	28° \mathring{M} 39'19	
minimum elong	-4138 Nov 30 j 11:39	8° \mathring{M} 25'34	0°03'37	max. Earth dist.	-4133 Dec 21 j 22:32	28° \mathring{M} 43'03	20.98174 AU
behind sun begin	-4138 Nov 30 j 05:09	8° \mathring{M} 24'38		morning rise	-4132 Jan 05 j 15:00	29° \mathring{M} 33'28	
behind sun end	-4138 Nov 30 j 18:08	8° \mathring{M} 26'29			-4132 Jan 13 j 14:39	0° \mathring{A}	
max. Earth dist.	-4138 Dec 01 j 16:34	8° \mathring{M} 29'48	20.79030 AU	retrograde	-4132 Apr 08 j 23:35	2° \mathring{A} 41'22	
morning rise	-4138 Dec 16 j 05:17	9° \mathring{M} 20'27		min. Earth dist.	-4132 Jun 25 j 00:48	0° \mathring{A} 44'49	18.99488 AU
retrograde	-4137 Mar 19 j 23:23	12° \mathring{M} 29'55		opposition	-4132 Jun 26 j 05:07	0° \mathring{A} 41'59	-0°17'00
min. Earth dist.	-4137 Jun 04 j 21:52	10° \mathring{M} 33'23	18.81508 AU		-4132 Jul 14 j 02:10	30° \mathring{R} \mathring{M}	
opposition	-4137 Jun 06 j 01:23	10° \mathring{M} 30'37	0°02'03	direct	-4132 Sep 09 j 19:43	28° \mathring{M} 45'46	
direct	-4137 Aug 21 j 01:16	8° \mathring{M} 33'43			-4132 Nov 03 j 15:28	0° \mathring{A}	
evening set	-4137 Nov 19 j 02:29	11° \mathring{M} 35'49		evening set	-4132 Dec 08 j 03:39	1° \mathring{A} 44'29	
conjunction	-4137 Dec 04 j 18:01	12° \mathring{M} 30'14	0°00'08	conjunction	-4132 Dec 23 j 22:32	2° \mathring{A} 38'35	-0°17'00
minimum elong	-4137 Dec 04 j 18:01	12° \mathring{M} 30'14	0°00'01	minimum elong	-4132 Dec 23 j 22:32	2° \mathring{A} 38'35	0°17'10
behind sun begin	-4137 Dec 04 j 13:52	12° \mathring{M} 29'40		max. Earth dist.	-4132 Dec 25 j 04:37	2° \mathring{A} 42'55	21.00616 AU
behind sun end	-4137 Dec 04 j 22:10	12° \mathring{M} 30'47		morning rise	-4131 Jan 08 j 21:03	3° \mathring{A} 33'13	
max. Earth dist.	-4137 Dec 05 j 22:45	12° \mathring{M} 34'25	20.83819 AU	retrograde	-4131 Apr 13 j 06:48	6° \mathring{A} 40'54	
desc. node	-4137 Dec 18 j 11:05	13° \mathring{M} 18'00		min. Earth dist.	-4131 Jun 29 j 10:08	4° \mathring{A} 44'12	19.01738 AU
morning rise	-4137 Dec 20 j 12:25	13° \mathring{M} 25'02		opposition	-4131 Jun 30 j 13:47	4° \mathring{A} 41'26	-0°20'35
	-4136 Jan 19 j 18:24	15° \mathring{M}		direct	-4131 Sep 14 j 02:06	2° \mathring{A} 45'16	
retrograde	-4136 Mar 23 j 11:27	16° \mathring{M} 34'10		evening set	-4131 Dec 12 j 08:11	5° \mathring{A} 43'31	
	-4136 May 29 j 23:58	15° \mathring{R} \mathring{M}					
min. Earth dist.	-4136 Jun 08 j 08:14	14° \mathring{M} 37'46	18.86074 AU	conjunction	-4131 Dec 28 j 03:49	6° \mathring{A} 37'36	-0°20'11
opposition	-4136 Jun 09 j 12:47	14° \mathring{M} 34'55	-0°01'51	minimum elong	-4131 Dec 28 j 03:48	6° \mathring{A} 37'36	0°20'21
direct	-4136 Aug 24 j 11:03	12° \mathring{M} 38'14		max. Earth dist.	-4131 Dec 29 j 09:11	6° \mathring{A} 41'50	21.02689 AU
	-4136 Nov 10 j 09:57	15° \mathring{M}		morning rise	-4130 Jan 13 j 03:21	7° \mathring{A} 32'15	
evening set	-4136 Nov 22 j 08:05	15° \mathring{M} 39'34		retrograde	-4130 Apr 17 j 15:28	10° \mathring{A} 39'44	
				opposition	-4130 Jul 04 j 21:53	8° \mathring{A} 40'13	-0°24'03
conjunction	-4136 Dec 08 j 00:13	16° \mathring{M} 33'53	-0°03'28	min. Earth dist.	-4130 Jul 03 j 17:49	8° \mathring{A} 43'01	19.03635 AU
minimum elong	-4136 Dec 08 j 00:13	16° \mathring{M} 33'53	0°03'36	direct	-4130 Sep 18 j 08:31	6° \mathring{A} 44'04	
behind sun begin	-4136 Dec 07 j 17:43	16° \mathring{M} 32'58		evening set	-4130 Dec 16 j 12:38	9° \mathring{A} 41'56	
behind sun end	-4136 Dec 08 j 06:43	16° \mathring{M} 34'48					

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 23

Attention, astronomical year style is used: The year -4129 in astronomical counting style is the year 4130 BCE in historical counting style.

conjunction	-4129 Jan 01 j 09:10	10° ♂ 36'03	-0°23'16	retrograde	-4123 May 16 j 00:25	8° ♂ 27'02	
minimum elong	-4129 Jan 01 j 09:10	10° ♂ 36'03	0°23'26	opposition	-4123 Aug 01 j 22:08	6° ♂ 27'25	-0°44'14
max. Earth dist.	-4129 Jan 02 j 15:09	10° ♂ 40'20	21.04394 AU	min. Earth dist.	-4123 Jul 31 j 23:59	6° ♂ 29'40	19.05871 AU
morning rise	-4129 Jan 17 j 09:35	11° ♂ 30'43		direct	-4123 Oct 15 j 19:06	4° ♂ 31'16	
retrograde	-4129 Apr 21 j 22:53	14° ♂ 38'03		evening set	-4122 Jan 13 j 01:17	7° ♂ 28'49	
min. Earth dist.	-4129 Jul 08 j 02:18	12° ♂ 41'13	19.05162 AU				
opposition	-4129 Jul 09 j 05:36	12° ♂ 38'29	-0°27'24	conjunction	-4122 Jan 29 j 04:22	8° ♂ 23'30	-0°41'00
direct	-4129 Sep 22 j 14:04	10° ♂ 42'23		minimum elong	-4122 Jan 29 j 04:22	8° ♂ 23'30	0°41'10
evening set	-4129 Dec 20 j 17:12	13° ♂ 39'57		max. Earth dist.	-4122 Jan 30 j 03:46	8° ♂ 26'49	21.05093 AU
				morning rise	-4122 Feb 14 j 11:46	9° ♂ 18'46	
conjunction	-4128 Jan 05 j 14:31	14° ♂ 34'05	-0°26'14	retrograde	-4122 May 20 j 10:09	12° ♂ 26'19	
minimum elong	-4128 Jan 05 j 14:31	14° ♂ 34'05	0°26'25	min. Earth dist.	-4122 Aug 05 j 07:34	10° ♂ 28'45	19.04254 AU
max. Earth dist.	-4128 Jan 06 j 19:28	14° ♂ 38'14	21.05748 AU	opposition	-4122 Aug 06 j 04:23	10° ♂ 26'39	-0°46'23
morning rise	-4128 Jan 21 j 15:58	15° ♂ 28'47		direct	-4122 Oct 19 j 23:58	8° ♂ 30'21	
retrograde	-4128 Apr 25 j 07:17	18° ♂ 36'02		evening set	-4121 Jan 17 j 07:57	11° ♂ 28'09	
min. Earth dist.	-4128 Jul 11 j 09:28	16° ♂ 39'11	19.06336 AU				
opposition	-4128 Jul 12 j 12:50	16° ♂ 36'27	-0°30'37	conjunction	-4121 Feb 02 j 12:10	12° ♂ 22'59	-0°42'50
direct	-4128 Sep 25 j 19:20	14° ♂ 40'22		minimum elong	-4121 Feb 02 j 12:10	12° ♂ 22'59	0°43'01
evening set	-4128 Dec 23 j 21:48	17° ♂ 37'44		max. Earth dist.	-4121 Feb 03 j 10:44	12° ♂ 26'12	21.03187 AU
				morning rise	-4121 Feb 18 j 20:28	13° ♂ 18'23	
conjunction	-4127 Jan 08 j 20:05	18° ♂ 31'55	-0°29'05	retrograde	-4121 May 24 j 17:56	16° ♂ 26'05	
minimum elong	-4127 Jan 08 j 20:05	18° ♂ 31'55	0°29'15	opposition	-4121 Aug 10 j 10:37	14° ♂ 26'19	-0°48'18
max. Earth dist.	-4127 Jan 10 j 01:24	18° ♂ 36'06	21.06730 AU	min. Earth dist.	-4121 Aug 09 j 15:34	14° ♂ 28'15	19.02065 AU
morning rise	-4127 Jan 24 j 22:24	19° ♂ 26'41		direct	-4121 Oct 24 j 05:04	12° ♂ 29'51	
retrograde	-4127 Apr 29 j 14:47	22° ♂ 33'52		evening set	-4120 Jan 21 j 15:03	15° ♂ 27'57	
opposition	-4127 Jul 16 j 19:55	20° ♂ 34'16	-0°33'41				
min. Earth dist.	-4127 Jul 15 j 17:28	20° ♂ 36'56	19.07128 AU	conjunction	-4120 Feb 06 j 20:11	16° ♂ 22'56	-0°44'28
direct	-4127 Sep 30 j 00:16	18° ♂ 38'14		minimum elong	-4120 Feb 06 j 20:11	16° ♂ 22'56	0°44'38
evening set	-4127 Dec 28 j 02:33	21° ♂ 35'28		max. Earth dist.	-4120 Feb 07 j 16:10	16° ♂ 25'46	21.00745 AU
				morning rise	-4120 Feb 23 j 05:33	17° ♂ 18'29	
conjunction	-4126 Jan 13 j 01:43	22° ♂ 29'43	-0°31'47	retrograde	-4120 May 28 j 03:19	20° ♂ 26'21	
minimum elong	-4126 Jan 13 j 01:43	22° ♂ 29'43	0°31'58	opposition	-4120 Aug 13 j 16:44	18° ♂ 26'28	-0°49'59
max. Earth dist.	-4126 Jan 14 j 05:44	22° ♂ 33'43	21.07337 AU	min. Earth dist.	-4120 Aug 12 j 23:09	18° ♂ 28'15	18.99368 AU
morning rise	-4126 Jan 29 j 05:10	23° ♂ 24'33		direct	-4120 Oct 27 j 10:06	16° ♂ 29'45	
retrograde	-4126 May 03 j 23:56	26° ♂ 31'45		evening set	-4119 Jan 24 j 22:28	19° ♂ 28'14	
min. Earth dist.	-4126 Jul 20 j 00:41	24° ♂ 34'46	19.07528 AU				
opposition	-4126 Jul 21 j 02:45	24° ♂ 32'09	-0°36'35	conjunction	-4119 Feb 10 j 04:45	20° ♂ 23'23	-0°45'52
direct	-4126 Oct 04 j 05:04	22° ♂ 36'07		minimum elong	-4119 Feb 10 j 04:45	20° ♂ 23'23	0°46'04
evening set	-4125 Jan 01 j 07:43	25° ♂ 33'19		max. Earth dist.	-4119 Feb 10 j 23:59	20° ♂ 26'07	20.97809 AU
				morning rise	-4119 Feb 26 j 14:58	21° ♂ 19'06	
conjunction	-4125 Jan 17 j 07:54	26° ♂ 27'39	-0°34'21	retrograde	-4119 Jun 01 j 11:42	24° ♂ 27'09	
minimum elong	-4125 Jan 17 j 07:54	26° ♂ 27'39	0°34'31	opposition	-4119 Aug 17 j 22:50	22° ♂ 27'08	-0°51'25
max. Earth dist.	-4125 Jan 18 j 11:54	26° ♂ 31'38	21.07512 AU	min. Earth dist.	-4119 Aug 17 j 06:53	22° ♂ 28'45	18.96208 AU
morning rise	-4125 Feb 02 j 12:14	27° ♂ 22'35		direct	-4119 Oct 31 j 15:20	20° ♂ 30'10	
	-4125 Apr 02 j 22:18	0° ♂		evening set	-4118 Jan 29 j 06:26	23° ♂ 29'04	
retrograde	-4125 May 08 j 07:19	0° ♂ 29'48					
	-4125 Jun 13 j 07:07	30° ♂		conjunction	-4118 Feb 14 j 13:41	24° ♂ 24'25	-0°47'04
min. Earth dist.	-4125 Jul 24 j 08:33	28° ♂ 32'43	19.07473 AU	minimum elong	-4118 Feb 14 j 13:41	24° ♂ 24'25	0°47'14
opposition	-4125 Jul 25 j 09:14	28° ♂ 30'13	-0°39'20	max. Earth dist.	-4118 Feb 15 j 06:18	24° ♂ 26'46	20.94457 AU
direct	-4125 Oct 08 j 09:40	26° ♂ 34'11		morning rise	-4118 Mar 03 j 01:01	25° ♂ 20'18	
evening set	-4124 Jan 05 j 13:14	29° ♂ 31'27		retrograde	-4118 Jun 05 j 21:35	28° ♂ 28'35	
	-4124 Jan 14 j 00:35	0° ♂		opposition	-4118 Aug 22 j 04:59	26° ♂ 28'24	-0°52'37
				min. Earth dist.	-4118 Aug 21 j 14:35	26° ♂ 29'53	18.92663 AU
conjunction	-4124 Jan 21 j 14:19	0° ♂ 25'52	-0°36'44	direct	-4118 Nov 04 j 20:42	24° ♂ 31'09	
minimum elong	-4124 Jan 21 j 14:19	0° ♂ 25'52	0°36'56	evening set	-4117 Feb 02 j 14:57	27° ♂ 30'35	
max. Earth dist.	-4124 Jan 22 j 16:28	0° ♂ 29'36	21.07230 AU				
morning rise	-4124 Feb 06 j 19:44	1° ♂ 20'54		conjunction	-4117 Feb 18 j 23:20	28° ♂ 26'07	-0°48'01
retrograde	-4124 May 11 j 17:02	4° ♂ 28'12		minimum elong	-4117 Feb 18 j 23:20	28° ♂ 26'07	0°48'11
opposition	-4124 Jul 28 j 15:42	2° ♂ 28'37	-0°41'53	max. Earth dist.	-4117 Feb 19 j 15:10	28° ♂ 28'22	20.90725 AU
min. Earth dist.	-4124 Jul 27 j 15:56	2° ♂ 31'01	19.06943 AU	morning rise	-4117 Mar 07 j 11:25	29° ♂ 22'12	
direct	-4124 Oct 11 j 14:21	0° ♂ 32'32			-4117 Mar 19 j 01:46	0° ♂	
evening set	-4123 Jan 08 j 18:57	3° ♂ 29'55		retrograde	-4117 Jun 10 j 06:36	2° ♂ 30'43	
				opposition	-4117 Aug 26 j 11:04	0° ♂ 30'25	-0°53'33
conjunction	-4123 Jan 24 j 21:05	4° ♂ 24'28	-0°38'58	min. Earth dist.	-4117 Aug 25 j 22:13	0° ♂ 31'44	18.88761 AU
minimum elong	-4123 Jan 24 j 21:05	4° ♂ 24'28	0°39'09		-4117 Sep 07 j 21:44	30° ♂	
max. Earth dist.	-4123 Jan 25 j 22:50	4° ♂ 28'08	21.06430 AU	direct	-4117 Nov 09 j 01:53	28° ♂ 32'53	
morning rise	-4123 Feb 10 j 03:23	5° ♂ 19'36			-4116 Jan 07 j 17:55	0° ♂	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 24

Attention, astronomical year style is used: The year -4116 in astronomical counting style is the year 4117 BCE in historical counting style.

evening set	-4116 Feb 07 j 00:05	1°32'54		max. Earth dist.	-4110 Mar 20 j 13:54	27°09'39	20.57004 AU
				morning rise	-4110 Apr 06 j 06:39	28°07'12	
conjunction	-4116 Feb 23 j 09:22	2°28'39	-0°48'45		-4110 May 13 j 08:35	0°	
minimum elong	-4116 Feb 23 j 09:22	2°28'39	0°48'54	retrograde	-4110 Jul 09 j 17:04	1°18'32	
max. Earth dist.	-4116 Feb 23 j 22:30	2°30'31	20.86682 AU		-4110 Sep 06 j 10:31	30°	
morning rise	-4116 Mar 10 j 22:28	3°24'55		opposition	-4110 Sep 23 j 14:30	29°17'38	-0°52'34
retrograde	-4116 Jun 13 j 17:23	6°33'45		min. Earth dist.	-4110 Sep 23 j 14:24	29°17'39	18.54096 AU
opposition	-4116 Aug 29 j 17:29	4°33'18	-0°54'14	direct	-4110 Dec 07 j 02:17	27°18'05	
min. Earth dist.	-4116 Aug 29 j 06:09	4°34'28	18.84577 AU		-4109 Mar 01 j 07:15	0°	
direct	-4116 Nov 12 j 07:45	2°35'29		evening set	-4109 Mar 08 j 12:48	0°24'13	
evening set	-4115 Feb 10 j 09:35	5°36'09					
				conjunction	-4109 Mar 25 j 04:46	1°21'47	-0°46'54
conjunction	-4115 Feb 26 j 20:01	6°32'08	-0°49'14	minimum elong	-4109 Mar 25 j 04:47	1°21'47	0°47'00
minimum elong	-4115 Feb 26 j 20:01	6°32'08	0°49'22	max. Earth dist.	-4109 Mar 25 j 04:11	1°21'42	20.51094 AU
max. Earth dist.	-4115 Feb 27 j 08:28	6°33'55	20.82357 AU	morning rise	-4109 Apr 10 j 22:42	2°19'41	
morning rise	-4115 Mar 15 j 09:50	7°28'37		retrograde	-4109 Jul 14 j 07:33	5°31'31	
retrograde	-4115 Jun 18 j 03:32	10°37'46		opposition	-4109 Sep 27 j 23:34	3°30'32	-0°51'17
opposition	-4115 Sep 03 j 00:05	8°37'14	-0°54'39	min. Earth dist.	-4109 Sep 28 j 01:15	3°30'21	18.48026 AU
min. Earth dist.	-4115 Sep 02 j 14:13	8°38'15	18.80118 AU	direct	-4109 Dec 11 j 12:47	1°30'37	
direct	-4115 Nov 16 j 13:16	6°39'08		evening set	-4108 Mar 12 j 04:33	4°37'51	
evening set	-4114 Feb 14 j 20:04	9°40'33					
				conjunction	-4108 Mar 28 j 21:07	5°35'42	-0°45'36
conjunction	-4114 Mar 03 j 07:24	10°36'45	-0°49'29	minimum elong	-4108 Mar 28 j 21:07	5°35'42	0°45'41
minimum elong	-4114 Mar 03 j 07:24	10°36'45	0°49'38	max. Earth dist.	-4108 Mar 28 j 16:43	5°35'04	20.44886 AU
max. Earth dist.	-4114 Mar 03 j 16:57	10°38'07	20.77786 AU	morning rise	-4108 Apr 14 j 15:42	6°33'52	
morning rise	-4114 Mar 19 j 22:12	11°33'28		retrograde	-4108 Jul 17 j 20:48	9°46'12	
retrograde	-4114 Jun 22 j 15:11	14°43'00		opposition	-4108 Oct 01 j 09:19	7°45'05	-0°49'43
opposition	-4114 Sep 07 j 06:54	12°42'21	-0°54'48	min. Earth dist.	-4108 Oct 01 j 13:37	7°44'37	18.41685 AU
min. Earth dist.	-4114 Sep 06 j 22:51	12°43'11	18.75426 AU	direct	-4108 Dec 14 j 22:28	5°44'46	
direct	-4114 Nov 20 j 19:48	10°43'58		evening set	-4107 Mar 16 j 20:51	8°53'06	
evening set	-4113 Feb 19 j 07:15	13°46'12					
				conjunction	-4107 Apr 02 j 14:21	9°51'16	-0°44'02
conjunction	-4113 Mar 07 j 19:42	14°42'41	-0°49'29	minimum elong	-4107 Apr 02 j 14:21	9°51'16	0°44'07
minimum elong	-4113 Mar 07 j 19:42	14°42'41	0°49'36	max. Earth dist.	-4107 Apr 02 j 08:34	9°50'25	20.38418 AU
max. Earth dist.	-4113 Mar 08 j 04:22	14°43'55	20.72971 AU	morning rise	-4107 Apr 19 j 09:13	10°49'40	
	-4113 Mar 12 j 20:17	15°		retrograde	-4107 Jul 22 j 12:12	14°02'30	
morning rise	-4113 Mar 24 j 11:06	15°39'36		opposition	-4107 Oct 05 j 19:30	12°01'15	-0°47'51
retrograde	-4113 Jun 27 j 02:47	18°49'32		min. Earth dist.	-4107 Oct 06 j 01:21	12°00'38	18.35097 AU
opposition	-4113 Sep 11 j 14:08	16°48'50	-0°54'40	direct	-4107 Dec 19 j 10:26	10°00'31	
min. Earth dist.	-4113 Sep 11 j 07:38	16°49'31	18.70483 AU	evening set	-4106 Mar 21 j 14:22	13°10'01	
	-4113 Nov 05 j 16:19	15°					
direct	-4113 Nov 25 j 02:33	14°50'11		conjunction	-4106 Apr 07 j 08:21	14°08'28	-0°42'14
	-4113 Dec 14 j 10:35	15°		minimum elong	-4106 Apr 07 j 08:21	14°08'28	0°42'17
evening set	-4112 Feb 23 j 19:14	17°53'18		max. Earth dist.	-4106 Apr 06 j 22:52	14°07'05	20.31744 AU
				morning rise	-4106 Apr 24 j 03:42	15°07'08	
conjunction	-4112 Mar 11 j 08:27	18°50'02	-0°49'14	retrograde	-4106 Jul 27 j 02:15	18°20'28	
minimum elong	-4112 Mar 11 j 08:27	18°50'02	0°49'22	opposition	-4106 Oct 10 j 06:13	16°19'03	-0°45'43
max. Earth dist.	-4112 Mar 11 j 14:01	18°50'50	20.67916 AU	min. Earth dist.	-4106 Oct 10 j 14:45	16°18'08	18.28352 AU
morning rise	-4112 Mar 28 j 00:44	19°47'12		direct	-4106 Dec 23 j 21:56	14°17'53	
retrograde	-4112 Jun 30 j 15:04	22°57'35		evening set	-4105 Mar 26 j 08:31	17°28'34	
opposition	-4112 Sep 14 j 21:49	20°56'49	-0°54'15				
min. Earth dist.	-4112 Sep 14 j 17:25	20°57'16	18.65302 AU	conjunction	-4105 Apr 12 j 03:14	18°27'19	-0°40'10
direct	-4112 Nov 28 j 09:37	18°57'53		minimum elong	-4105 Apr 12 j 03:15	18°27'19	0°40'13
evening set	-4111 Feb 27 j 08:06	22°01'57		max. Earth dist.	-4105 Apr 11 j 16:34	18°25'45	20.24944 AU
				morning rise	-4105 Apr 28 j 22:42	19°26'14	
conjunction	-4111 Mar 15 j 22:22	22°58'57	-0°48'43	retrograde	-4105 Jul 31 j 18:23	22°40'04	
minimum elong	-4111 Mar 15 j 22:22	22°58'57	0°48'50	opposition	-4105 Oct 14 j 17:30	20°38'31	-0°43'19
max. Earth dist.	-4111 Mar 16 j 02:50	22°59'36	20.62601 AU	min. Earth dist.	-4105 Oct 15 j 03:12	20°37'28	18.21513 AU
morning rise	-4111 Apr 01 j 15:09	23°56'22		direct	-4105 Dec 28 j 11:16	18°36'55	
retrograde	-4111 Jul 05 j 04:14	27°07'13		evening set	-4104 Mar 30 j 03:28	21°48'48	
opposition	-4111 Sep 19 j 05:50	25°06'24	-0°53'33				
min. Earth dist.	-4111 Sep 19 j 03:12	25°06'40	18.59843 AU	conjunction	-4104 Apr 15 j 22:31	22°47'50	-0°37'52
direct	-4111 Dec 02 j 18:11	23°07'10		minimum elong	-4104 Apr 15 j 22:31	22°47'51	0°37'54
evening set	-4110 Mar 03 j 22:03	26°12'15		max. Earth dist.	-4104 Apr 15 j 08:38	22°45'48	20.18092 AU
				morning rise	-4104 May 02 j 18:16	23°47'00	
conjunction	-4110 Mar 20 j 13:03	27°09'32	-0°47'57	retrograde	-4104 Aug 04 j 09:23	27°01'22	
minimum elong	-4110 Mar 20 j 13:03	27°09'32	0°48'03	opposition	-4104 Oct 18 j 05:32	24°59'40	-0°40'39

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 25

Attention, astronomical year style is used: The year -4104 in astronomical counting style is the year 4105 BCE in historical counting style.

min. Earth dist.	-4104 Oct 18 j 17:42	24° K 58'22	18.14675 AU	conjunction	-4097 May 19 j 12:32	24° Y 03'14	-0°15'57
direct	-4103 Jan 01 j 00:23	22° K 57'37		minimum elong	-4097 May 19 j 12:32	24° Y 03'14	0°15'53
evening set	-4103 Apr 03 j 23:15	26° K 10'46		morning rise	-4097 Jun 05 j 06:46	25° Y 03'53	
				retrograde	-4097 Sep 05 j 21:11	28° Y 22'01	
conjunction	-4103 Apr 20 j 18:53	27° K 10'06	-0°35'20	opposition	-4097 Nov 18 j 13:57	26° Y 20'01	-0°15'38
minimum elong	-4103 Apr 20 j 18:53	27° K 10'06	0°35'20	min. Earth dist.	-4097 Nov 19 j 11:23	26° Y 17'41	17.71067 AU
max. Earth dist.	-4103 Apr 20 j 03:58	27° K 07'54	20.11275 AU	direct	-4096 Feb 01 j 23:38	24° Y 15'36	
morning rise	-4103 May 07 j 14:37	28° K 09'30		evening set	-4096 May 06 j 18:06	27° Y 37'47	
	-4103 Jun 11 j 18:22	0° Y		max. Earth dist.	-4096 May 22 j 10:51	28° Y 34'44	19.68313 AU
retrograde	-4103 Aug 09 j 02:33	1° Y 24'23					
	-4103 Oct 08 j 00:01	30° K		conjunction	-4096 May 23 j 13:53	28° Y 38'52	-0°12'10
opposition	-4103 Oct 22 j 18:00	29° K 22'34	-0°37'43	minimum elong	-4096 May 23 j 13:53	28° Y 38'52	0°12'04
min. Earth dist.	-4103 Oct 23 j 07:00	29° K 21'10	18.07893 AU	behind sun begin	-4096 May 23 j 09:22	28° Y 38'11	
direct	-4102 Jan 05 j 15:22	27° K 20'06		behind sun end	-4096 May 23 j 18:24	28° Y 39'32	
	-4102 Mar 29 j 17:00	0° Y		morning rise	-4096 Jun 09 j 07:26	29° Y 39'40	
evening set	-4102 Apr 08 j 20:06	0° Y 34'32			-4096 Jun 15 j 01:25	0° K	
				retrograde	-4096 Sep 09 j 17:21	2° K 58'17	
conjunction	-4102 Apr 25 j 15:56	1° Y 34'08	-0°32'34	opposition	-4096 Nov 22 j 08:21	0° K 56'18	-0°11'21
minimum elong	-4102 Apr 25 j 15:56	1° Y 34'08	0°32'35	min. Earth dist.	-4096 Nov 23 j 08:04	0° K 53'43	17.65651 AU
max. Earth dist.	-4102 Apr 24 j 22:08	1° Y 31'30	20.04546 AU		-4096 Dec 14 j 17:01	30° K	
morning rise	-4102 May 12 j 11:44	2° Y 33'46		direct	-4095 Feb 05 j 19:00	28° Y 51'34	
retrograde	-4102 Aug 13 j 18:45	5° Y 49'12			-4095 Mar 29 j 18:13	0° K	
opposition	-4102 Oct 27 j 07:26	3° Y 47'17	-0°34'34	evening set	-4095 May 11 j 20:34	2° K 14'57	
min. Earth dist.	-4102 Oct 27 j 22:48	3° Y 45'37	18.01244 AU	max. Earth dist.	-4095 May 27 j 11:02	3° K 11'47	19.63000 AU
direct	-4101 Jan 10 j 06:12	1° Y 44'25					
evening set	-4101 Apr 13 j 17:34	5° Y 00'09		conjunction	-4095 May 28 j 15:55	3° K 16'12	-0°08'17
				minimum elong	-4095 May 28 j 15:55	3° K 16'12	0°08'11
conjunction	-4101 Apr 30 j 13:44	6° Y 00'02	-0°29'37	behind sun begin	-4095 May 28 j 09:56	3° K 15'19	
minimum elong	-4101 Apr 30 j 13:44	6° Y 00'02	0°29'36	behind sun end	-4095 May 28 j 21:54	3° K 17'06	
max. Earth dist.	-4101 Apr 29 j 18:58	5° Y 57'14	19.97978 AU	morning rise	-4095 Jun 14 j 08:53	4° K 17'09	
morning rise	-4101 May 17 j 09:20	6° Y 59'53		retrograde	-4095 Sep 14 j 16:19	7° K 36'13	
retrograde	-4101 Aug 18 j 13:20	10° Y 15'52		opposition	-4095 Nov 27 j 03:16	5° K 34'11	-0°06'59
opposition	-4101 Oct 31 j 21:27	8° Y 13'53	-0°31'10	min. Earth dist.	-4095 Nov 28 j 03:20	5° K 31'34	17.60443 AU
min. Earth dist.	-4101 Nov 01 j 13:18	8° Y 12'10	17.94768 AU	direct	-4094 Feb 10 j 17:15	3° K 29'10	
direct	-4100 Jan 14 j 22:58	6° Y 10'40		evening set	-4094 May 16 j 23:36	6° K 53'40	
evening set	-4100 Apr 17 j 16:02	9° Y 27'42					
				conjunction	-4094 Jun 02 j 18:32	7° K 55'05	-0°04'19
conjunction	-4100 May 04 j 12:14	10° Y 27'51	-0°26'27	minimum elong	-4094 Jun 02 j 18:32	7° K 55'05	0°04'13
minimum elong	-4100 May 04 j 12:14	10° Y 27'51	0°26'27	behind sun begin	-4094 Jun 02 j 11:52	7° K 54'06	
max. Earth dist.	-4100 May 03 j 15:09	10° Y 24'41	19.91605 AU	behind sun end	-4094 Jun 03 j 01:12	7° K 56'05	
morning rise	-4100 May 21 j 07:40	11° Y 27'55		max. Earth dist.	-4094 Jun 01 j 12:55	7° K 50'32	19.57895 AU
retrograde	-4100 Aug 22 j 06:57	14° Y 44'27		morning rise	-4094 Jun 19 j 10:33	8° K 56'09	
opposition	-4100 Nov 04 j 12:21	12° Y 42'26	-0°27'34	retrograde	-4094 Sep 19 j 13:14	12° K 15'36	
min. Earth dist.	-4100 Nov 05 j 06:32	12° Y 40'28	17.88518 AU	opposition	-4094 Dec 01 j 23:17	10° K 13'33	-0°02'32
direct	-4099 Jan 18 j 15:01	10° Y 38'53		min. Earth dist.	-4094 Dec 03 j 01:16	10° K 10'42	17.55471 AU
evening set	-4099 Apr 22 j 15:13	13° Y 57'14		direct	-4093 Feb 15 j 14:49	8° K 08'13	
				evening set	-4093 May 22 j 03:00	11° K 33'47	
conjunction	-4099 May 09 j 11:34	14° Y 57'38	-0°23'07				
minimum elong	-4099 May 09 j 11:34	14° Y 57'38	0°23'05	conjunction	-4093 Jun 07 j 21:10	12° K 35'19	-0°00'14
max. Earth dist.	-4099 May 08 j 13:21	14° Y 54'18	19.85472 AU	minimum elong	-4093 Jun 07 j 21:11	12° K 35'19	0°00'08
morning rise	-4099 May 26 j 06:43	15° Y 57'55		behind sun begin	-4093 Jun 07 j 14:35	12° K 34'20	
retrograde	-4099 Aug 27 j 03:44	19° Y 15'00		behind sun end	-4093 Jun 08 j 03:47	12° K 36'19	
opposition	-4099 Nov 09 j 03:59	17° Y 12'59	-0°23'46	max. Earth dist.	-4093 Jun 06 j 13:52	12° K 30'29	19.53066 AU
min. Earth dist.	-4099 Nov 09 j 22:36	17° Y 10'58	17.82487 AU	morning rise	-4093 Jun 24 j 12:29	13° K 36'28	
direct	-4098 Jan 23 j 09:45	15° Y 09'08		asc. node	-4093 Jun 29 j 13:02	13° K 54'28	
evening set	-4098 Apr 27 j 15:29	18° Y 28'48			-4093 Jul 19 j 01:27	15° K	
max. Earth dist.	-4098 May 13 j 11:33	19° Y 25'48	19.79543 AU	retrograde	-4093 Sep 24 j 12:15	16° K 56'18	
					-4093 Dec 04 j 14:33	15° K	
conjunction	-4098 May 14 j 11:42	19° Y 29'27	-0°19'36	opposition	-4093 Dec 06 j 19:50	14° K 54'11	0°01'58
minimum elong	-4098 May 14 j 11:42	19° Y 29'27	0°19'33	min. Earth dist.	-4093 Dec 07 j 21:50	14° K 51'21	17.50799 AU
morning rise	-4098 May 31 j 06:24	20° Y 29'56		direct	-4092 Feb 20 j 14:58	12° K 48'34	
retrograde	-4098 Aug 31 j 22:38	23° Y 47'32			-4092 May 04 j 10:32	15° K	
opposition	-4098 Nov 13 j 20:33	21° Y 45'33	-0°19'47	evening set	-4092 May 26 j 06:42	16° K 15'05	
min. Earth dist.	-4098 Nov 14 j 17:37	21° Y 43'15	17.76674 AU	max. Earth dist.	-4092 Jun 10 j 17:13	17° K 11'57	19.48555 AU
direct	-4097 Jan 28 j 03:08	19° Y 41'24					
evening set	-4097 May 02 j 16:29	23° Y 02'22		conjunction	-4092 Jun 12 j 00:21	17° K 16'46	0°03'52
max. Earth dist.	-4097 May 18 j 10:53	23° Y 59'20	19.73835 AU	minimum elong	-4092 Jun 12 j 00:21	17° K 16'46	0°03'59

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 26

Attention, astronomical year style is used: The year -4092 in astronomical counting style is the year 4093 BCE in historical counting style.

behind sun begin	-4092 Jun 11 j 17:40	17° 8 15'45		minimum elong	-4086 Jul 11 j 19:57	15° II 43'07	0°26'55
behind sun end	-4092 Jun 12 j 07:02	17° 8 17'46		max. Earth dist.	-4086 Jul 10 j 14:41	15° II 38'30	19.31840 AU
morning rise	-4092 Jun 28 j 14:32	18° 8 17'58		morning rise	-4086 Jul 28 j 03:12	16° II 44'16	
retrograde	-4092 Sep 28 j 09:43	21° 8 38'07		retrograde	-4086 Oct 27 j 05:48	20° II 05'41	
opposition	-4092 Dec 10 j 17:05	19° 8 35'57	0°06'27	opposition	-4085 Jan 08 j 13:57	18° II 03'39	0°31'41
min. Earth dist.	-4092 Dec 11 j 20:25	19° 8 32'58	17.46477 AU	min. Earth dist.	-4085 Jan 09 j 15:12	18° II 00'54	17.31467 AU
direct	-4091 Feb 24 j 14:40	17° 8 30'04		direct	-4085 Mar 26 j 05:24	15° II 57'03	
evening set	-4091 May 31 j 10:51	20° 8 57'29		evening set	-4085 Jun 30 j 12:30	19° II 27'58	
max. Earth dist.	-4091 Jun 15 j 18:55	21° 8 54'09	19.44439 AU				
conjunction	-4091 Jun 17 j 03:34	21° 8 59'14	0°07'52	conjunction	-4085 Jul 16 j 22:45	20° II 29'38	0°30'06
minimum elong	-4091 Jun 17 j 03:33	21° 8 59'14	0°08'01	minimum elong	-4085 Jul 16 j 22:45	20° II 29'38	0°30'16
behind sun begin	-4091 Jun 16 j 21:33	21° 8 58'19		max. Earth dist.	-4085 Jul 15 j 17:49	20° II 25'05	19.31162 AU
behind sun end	-4091 Jun 17 j 09:34	22° 8 00'08		morning rise	-4085 Aug 02 j 04:45	21° II 30'43	
morning rise	-4091 Jul 03 j 16:54	23° 8 00'30		retrograde	-4085 Nov 01 j 06:00	24° II 52'15	
retrograde	-4091 Oct 03 j 08:40	26° 8 20'56		opposition	-4084 Jan 13 j 15:23	22° II 50'20	0°35'20
opposition	-4091 Dec 15 j 14:59	24° 8 18'43	0°10'55	min. Earth dist.	-4084 Jan 14 j 16:18	22° II 47'38	17.31095 AU
min. Earth dist.	-4091 Dec 16 j 18:09	24° 8 15'44	17.42584 AU	direct	-4084 Mar 30 j 08:08	20° II 43'48	
direct	-4090 Mar 01 j 16:10	22° 8 12'34		evening set	-4084 Jul 04 j 16:28	24° II 14'57	
evening set	-4090 Jun 05 j 14:59	25° 8 40'48		max. Earth dist.	-4084 Jul 19 j 22:16	25° II 12'13	19.31077 AU
max. Earth dist.	-4090 Jun 20 j 23:22	26° 8 37'41	19.40769 AU	conjunction	-4084 Jul 21 j 01:30	25° II 16'32	0°33'15
conjunction	-4090 Jun 22 j 06:57	26° 8 42'36	0°11'50	minimum elong	-4084 Jul 21 j 01:30	25° II 16'32	0°33'26
minimum elong	-4090 Jun 22 j 06:57	26° 8 42'36	0°11'59	morning rise	-4084 Aug 06 j 06:12	26° II 17'29	
behind sun begin	-4090 Jun 22 j 02:23	26° 8 41'54		retrograde	-4084 Nov 05 j 07:10	29° II 39'04	
behind sun end	-4090 Jun 22 j 11:31	26° 8 43'17		opposition	-4083 Jan 17 j 17:04	27° II 37'18	0°38'44
morning rise	-4090 Jul 08 j 19:01	27° 8 43'53		min. Earth dist.	-4083 Jan 18 j 16:29	27° II 34'45	17.31274 AU
	-4090 Aug 20 j 12:06	0° II		direct	-4083 Apr 04 j 12:00	25° II 30'53	
retrograde	-4090 Oct 08 j 07:11	1° II 04'34		evening set	-4083 Jul 09 j 20:18	29° II 02'08	
	-4090 Nov 27 j 15:33	30° 8		max. Earth dist.	-4083 Jul 25 j 01:36	29° II 59'24	19.31517 AU
opposition	-4090 Dec 20 j 13:38	29° 8 02'20	0°15'19		-4083 Jul 25 j 05:22	0° III	
min. Earth dist.	-4090 Dec 21 j 17:16	28° 8 59'18	17.39167 AU	conjunction	-4083 Jul 26 j 03:59	0° III 03'35	0°36'11
direct	-4089 Mar 06 j 17:54	26° 8 55'59		minimum elong	-4083 Jul 26 j 03:59	0° III 03'35	0°36'22
	-4089 Jun 03 j 21:33	0° II		morning rise	-4083 Aug 11 j 07:21	1° III 04'24	
evening set	-4089 Jun 10 j 19:24	0° II 24'55		retrograde	-4083 Nov 10 j 07:32	4° III 25'59	
max. Earth dist.	-4089 Jun 26 j 01:42	1° II 21'40	19.37626 AU	opposition	-4082 Jan 22 j 19:23	2° III 24'20	0°41'51
conjunction	-4089 Jun 27 j 10:12	1° II 26'45	0°15'44	min. Earth dist.	-4082 Jan 23 j 18:37	2° III 21'49	17.31977 AU
minimum elong	-4089 Jun 27 j 10:12	1° II 26'45	0°15'53	direct	-4082 Apr 09 j 15:01	0° III 18'03	
morning rise	-4089 Jul 13 j 21:16	2° II 28'02		evening set	-4082 Jul 14 j 23:36	3° III 49'16	
retrograde	-4089 Oct 13 j 06:13	5° II 48'58		max. Earth dist.	-4082 Jul 30 j 04:59	4° III 46'36	19.32466 AU
opposition	-4089 Dec 25 j 12:50	3° II 46'42	0°19'37	conjunction	-4082 Jul 31 j 05:56	4° III 50'33	0°38'51
min. Earth dist.	-4089 Dec 26 j 16:00	3° II 43'44	17.36321 AU	minimum elong	-4082 Jul 31 j 05:56	4° III 50'33	0°39'02
direct	-4088 Mar 10 j 20:10	1° II 40'11		morning rise	-4082 Aug 16 j 08:03	5° III 51'12	
evening set	-4088 Jun 14 j 23:34	5° II 09'46		retrograde	-4082 Nov 15 j 08:37	9° III 12'44	
max. Earth dist.	-4088 Jun 30 j 06:42	6° II 06'46	19.35070 AU	opposition	-4081 Jan 27 j 21:54	7° III 11'12	0°44'41
conjunction	-4088 Jul 01 j 13:30	6° II 11'35	0°19'32	min. Earth dist.	-4081 Jan 28 j 19:05	7° III 08'55	17.33153 AU
minimum elong	-4088 Jul 01 j 13:30	6° II 11'35	0°19'42	direct	-4081 Apr 14 j 20:03	5° III 05'04	
morning rise	-4088 Jul 17 j 23:15	7° II 12'51		evening set	-4081 Jul 20 j 02:29	8° III 36'06	
retrograde	-4088 Oct 17 j 05:45	10° II 33'59		max. Earth dist.	-4081 Aug 04 j 08:10	9° III 33'30	19.33871 AU
opposition	-4088 Dec 29 j 12:41	8° II 31'45	0°23'48	conjunction	-4081 Aug 05 j 07:32	9° III 37'12	0°41'15
min. Earth dist.	-4088 Dec 30 j 15:28	8° II 28'49	17.34066 AU	minimum elong	-4081 Aug 05 j 07:31	9° III 37'12	0°41'26
direct	-4087 Mar 15 j 23:09	6° II 25'09		morning rise	-4081 Aug 21 j 08:17	10° III 37'41	
evening set	-4087 Jun 20 j 04:05	9° II 55'16		retrograde	-4081 Nov 20 j 07:47	13° III 59'06	
max. Earth dist.	-4087 Jul 05 j 09:33	10° II 52'10	19.33132 AU	opposition	-4080 Feb 02 j 00:36	11° III 57'39	0°47'13
conjunction	-4087 Jul 06 j 16:43	10° II 57'04	0°23'13	min. Earth dist.	-4080 Feb 02 j 21:33	11° III 55'24	17.34793 AU
minimum elong	-4087 Jul 06 j 16:43	10° II 57'04	0°23'22	direct	-4080 Apr 18 j 23:42	9° III 51'40	
morning rise	-4087 Jul 23 j 01:19	11° II 58'17		evening set	-4080 Jul 24 j 04:46	13° III 22'23	
retrograde	-4087 Oct 22 j 05:10	15° II 19'35		max. Earth dist.	-4080 Aug 08 j 10:13	14° III 19'45	19.35738 AU
opposition	-4086 Jan 03 j 12:59	13° II 17'25	0°27'50	conjunction	-4080 Aug 09 j 08:27	14° III 23'16	0°43'22
min. Earth dist.	-4086 Jan 04 j 15:19	13° II 14'33	17.32455 AU	minimum elong	-4080 Aug 09 j 08:26	14° III 23'16	0°43'32
direct	-4086 Mar 21 j 01:50	11° II 10'46		morning rise	-4080 Aug 25 j 08:07	15° III 23'34	
evening set	-4086 Jun 25 j 08:23	14° II 41'22		retrograde	-4080 Nov 24 j 07:58	18° III 44'48	
conjunction	-4086 Jul 11 j 19:58	15° II 43'07	0°26'45	opposition	-4079 Feb 06 j 03:17	16° III 43'25	0°49'23
				min. Earth dist.	-4079 Feb 06 j 21:49	16° III 41'26	17.36866 AU

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 27

Attention, astronomical year style is used: The year -4079 in astronomical counting style is the year 4080 BCE in historical counting style.

direct	-4079 Apr 24 j 05:24	14° $\mathring{\text{U}}$ 37'36		evening set	-4073 Aug 26 j 21:40	16° $\mathring{\text{U}}$ 13'33	
evening set	-4079 Jul 29 j 06:21	18° $\mathring{\text{U}}$ 07'52					
conjunction	-4079 Aug 14 j 08:49	19° $\mathring{\text{U}}$ 08'32	0°45'10	conjunction	-4073 Sep 11 j 17:13	17° $\mathring{\text{U}}$ 12'35	0°49'14
minimum elong	-4079 Aug 14 j 08:49	19° $\mathring{\text{U}}$ 08'32	0°45'20	minimum elong	-4073 Sep 11 j 17:13	17° $\mathring{\text{U}}$ 12'35	0°49'21
max. Earth dist.	-4079 Aug 13 j 12:53	19° $\mathring{\text{U}}$ 05'23	19.38027 AU	max. Earth dist.	-4073 Sep 11 j 11:37	17° $\mathring{\text{U}}$ 11'43	19.61625 AU
morning rise	-4079 Aug 30 j 07:08	20° $\mathring{\text{U}}$ 08'37		morning rise	-4073 Sep 27 j 09:48	18° $\mathring{\text{U}}$ 11'12	
retrograde	-4079 Nov 29 j 06:00	23° $\mathring{\text{U}}$ 29'37		retrograde	-4073 Dec 27 j 15:32	21° $\mathring{\text{U}}$ 29'55	
opposition	-4078 Feb 11 j 06:07	21° $\mathring{\text{U}}$ 28'17	0°51'13	opposition	-4072 Mar 11 j 17:39	19° $\mathring{\text{U}}$ 28'58	0°54'37
min. Earth dist.	-4078 Feb 12 j 00:07	21° $\mathring{\text{U}}$ 26'22	17.39375 AU	min. Earth dist.	-4072 Mar 11 j 22:10	19° $\mathring{\text{U}}$ 28'30	17.64370 AU
direct	-4078 Apr 29 j 09:37	19° $\mathring{\text{U}}$ 22'38		direct	-4072 May 28 j 01:43	17° $\mathring{\text{U}}$ 24'56	
evening set	-4078 Aug 03 j 07:16	22° $\mathring{\text{U}}$ 52'20		evening set	-4072 Aug 30 j 17:09	20° $\mathring{\text{U}}$ 49'11	
conjunction	-4078 Aug 19 j 08:19	23° $\mathring{\text{U}}$ 52'45	0°46'39	conjunction	-4072 Sep 15 j 11:36	21° $\mathring{\text{U}}$ 47'55	0°48'47
minimum elong	-4078 Aug 19 j 08:19	23° $\mathring{\text{U}}$ 52'45	0°46'50	minimum elong	-4072 Sep 15 j 11:36	21° $\mathring{\text{U}}$ 47'55	0°48'54
max. Earth dist.	-4078 Aug 18 j 13:33	23° $\mathring{\text{U}}$ 49'47	19.40771 AU	max. Earth dist.	-4072 Sep 15 j 07:27	21° $\mathring{\text{U}}$ 47'16	19.67200 AU
morning rise	-4078 Sep 04 j 05:41	24° $\mathring{\text{U}}$ 52'37		morning rise	-4072 Oct 01 j 03:40	22° $\mathring{\text{U}}$ 46'17	
retrograde	-4078 Dec 04 j 05:12	28° $\mathring{\text{U}}$ 13'19		retrograde	-4072 Dec 31 j 12:05	26° $\mathring{\text{U}}$ 04'33	
opposition	-4077 Feb 16 j 08:43	26° $\mathring{\text{U}}$ 12'01	0°52'42	opposition	-4071 Mar 16 j 18:19	24° $\mathring{\text{U}}$ 03'44	0°53'56
min. Earth dist.	-4077 Feb 16 j 23:55	26° $\mathring{\text{U}}$ 10'24	17.42340 AU	min. Earth dist.	-4071 Mar 16 j 20:13	24° $\mathring{\text{U}}$ 03'32	17.70134 AU
direct	-4077 May 04 j 14:58	24° $\mathring{\text{U}}$ 06'33		direct	-4071 Jun 02 j 01:18	22° $\mathring{\text{U}}$ 00'07	
evening set	-4077 Aug 08 j 07:01	27° $\mathring{\text{U}}$ 35'33		evening set	-4071 Sep 04 j 11:31	25° $\mathring{\text{U}}$ 23'15	
conjunction	-4077 Aug 24 j 07:01	28° $\mathring{\text{U}}$ 35'43	0°47'49	conjunction	-4071 Sep 20 j 05:14	26° $\mathring{\text{U}}$ 21'41	0°48'02
minimum elong	-4077 Aug 24 j 07:01	28° $\mathring{\text{U}}$ 35'43	0°47'58	minimum elong	-4071 Sep 20 j 05:14	26° $\mathring{\text{U}}$ 21'41	0°48'10
max. Earth dist.	-4077 Aug 23 j 15:21	28° $\mathring{\text{U}}$ 33'14	19.43965 AU	max. Earth dist.	-4071 Sep 20 j 04:38	26° $\mathring{\text{U}}$ 21'35	19.73133 AU
morning rise	-4077 Sep 09 j 03:10	29° $\mathring{\text{U}}$ 35'20		morning rise	-4071 Oct 05 j 20:33	27° $\mathring{\text{U}}$ 19'47	
retrograde	-4077 Sep 15 j 21:12	0° $\mathring{\text{U}}$		retrograde	-4071 Nov 28 j 19:45	0° $\mathring{\text{U}}$	
opposition	-4077 Dec 09 j 02:16	2° $\mathring{\text{U}}$ 55'42		opposition	-4070 Jan 05 j 08:10	0° $\mathring{\text{U}}$ 37'36	
min. Earth dist.	-4076 Feb 21 j 11:13	0° $\mathring{\text{U}}$ 54'27	0°53'48	min. Earth dist.	-4070 Feb 13 j 03:31	30° $\mathring{\text{R}}$ $\mathring{\text{U}}$	
direct	-4076 Mar 14 j 13:19	30° $\mathring{\text{R}}$ $\mathring{\text{U}}$		direct	-4070 Mar 21 j 18:36	28° $\mathring{\text{U}}$ 36'57	0°52'55
evening set	-4076 May 08 j 18:05	28° $\mathring{\text{U}}$ 49'10		evening set	-4070 Mar 21 j 18:13	28° $\mathring{\text{U}}$ 36'59	17.76203 AU
conjunction	-4076 Jun 30 j 15:04	0° $\mathring{\text{U}}$		direct	-4070 Jun 07 j 01:44	26° $\mathring{\text{U}}$ 33'47	
minimum elong	-4076 Aug 12 j 06:10	2° $\mathring{\text{U}}$ 17'21		evening set	-4070 Sep 09 j 05:14	29° $\mathring{\text{U}}$ 55'44	
max. Earth dist.	-4076 Aug 28 j 04:48	3° $\mathring{\text{U}}$ 17'15	0°48'39	conjunction	-4070 Sep 10 j 09:19	0° $\mathring{\text{U}}$	
morning rise	-4076 Aug 28 j 04:48	3° $\mathring{\text{U}}$ 17'15	0°48'49	minimum elong	-4070 Sep 24 j 22:00	0° $\mathring{\text{U}}$ 53'52	0°47'00
retrograde	-4076 Aug 27 j 14:25	3° $\mathring{\text{U}}$ 14'59	19.47639 AU	maximum elong	-4070 Sep 24 j 22:00	0° $\mathring{\text{U}}$ 53'52	0°47'05
opposition	-4076 Sep 13 j 00:07	4° $\mathring{\text{U}}$ 16'38		max. Earth dist.	-4070 Sep 24 j 22:53	0° $\mathring{\text{U}}$ 54'00	19.79339 AU
min. Earth dist.	-4076 Dec 13 j 00:44	7° $\mathring{\text{U}}$ 36'37		morning rise	-4070 Oct 10 j 12:56	1° $\mathring{\text{U}}$ 51'43	
direct	-4075 Feb 25 j 13:11	5° $\mathring{\text{U}}$ 35'23	0°54'33	retrograde	-4069 Jan 10 j 03:14	5° $\mathring{\text{U}}$ 09'03	
evening set	-4075 Feb 26 j 00:24	5° $\mathring{\text{U}}$ 34'12	17.49682 AU	opposition	-4069 Mar 26 j 18:19	3° $\mathring{\text{U}}$ 08'33	0°51'35
conjunction	-4075 May 13 j 21:38	3° $\mathring{\text{U}}$ 30'20		min. Earth dist.	-4069 Mar 26 j 15:51	3° $\mathring{\text{U}}$ 08'48	17.82530 AU
minimum elong	-4075 Aug 17 j 04:15	6° $\mathring{\text{U}}$ 57'39		direct	-4069 Jun 11 j 23:34	1° $\mathring{\text{U}}$ 05'49	
max. Earth dist.	-4075 Sep 02 j 01:53	7° $\mathring{\text{U}}$ 57'16	0°49'10	evening set	-4069 Sep 13 j 21:51	4° $\mathring{\text{U}}$ 26'34	
morning rise	-4075 Sep 02 j 01:53	7° $\mathring{\text{U}}$ 57'16	0°49'18	conjunction	-4069 Sep 29 j 14:04	5° $\mathring{\text{U}}$ 24'25	0°45'40
retrograde	-4075 Sep 01 j 15:05	7° $\mathring{\text{U}}$ 55'34	19.51804 AU	minimum elong	-4069 Sep 29 j 14:04	5° $\mathring{\text{U}}$ 24'25	0°45'45
opposition	-4075 Sep 17 j 20:05	8° $\mathring{\text{U}}$ 56'23		max. Earth dist.	-4069 Sep 29 j 18:03	5° $\mathring{\text{U}}$ 25'02	19.85755 AU
min. Earth dist.	-4075 Dec 17 j 21:23	12° $\mathring{\text{U}}$ 15'58		morning rise	-4069 Oct 15 j 04:28	6° $\mathring{\text{U}}$ 22'00	
direct	-4074 Mar 02 j 15:10	10° $\mathring{\text{U}}$ 14'48	0°54'55	retrograde	-4068 Jan 14 j 22:38	9° $\mathring{\text{U}}$ 38'51	
evening set	-4074 Mar 03 j 00:43	10° $\mathring{\text{U}}$ 13'48	17.54093 AU	opposition	-4068 Mar 30 j 17:26	7° $\mathring{\text{U}}$ 38'29	0°49'56
conjunction	-4074 May 18 j 23:24	8° $\mathring{\text{U}}$ 10'02		min. Earth dist.	-4068 Mar 30 j 12:34	7° $\mathring{\text{U}}$ 38'59	17.89004 AU
minimum elong	-4074 Aug 22 j 01:27	11° $\mathring{\text{U}}$ 36'23		direct	-4068 Jun 15 j 23:10	5° $\mathring{\text{U}}$ 36'13	
max. Earth dist.	-4074 Sep 06 j 21:50	12° $\mathring{\text{U}}$ 35'42	0°49'21	evening set	-4068 Sep 17 j 13:50	8° $\mathring{\text{U}}$ 55'43	
morning rise	-4074 Sep 06 j 12:33	12° $\mathring{\text{U}}$ 34'14	19.56474 AU	conjunction	-4068 Oct 03 j 05:15	9° $\mathring{\text{U}}$ 53'16	0°44'04
retrograde	-4074 Oct 17 j 09:20	15° $\mathring{\text{U}}$		minimum elong	-4068 Oct 03 j 05:15	9° $\mathring{\text{U}}$ 53'16	0°44'08
opposition	-4074 Dec 22 j 19:06	16° $\mathring{\text{U}}$ 53'44		max. Earth dist.	-4068 Oct 03 j 10:36	9° $\mathring{\text{U}}$ 54'05	19.92280 AU
min. Earth dist.	-4073 Mar 04 j 18:52	15° $\mathring{\text{R}}$ $\mathring{\text{U}}$		morning rise	-4068 Oct 18 j 19:23	10° $\mathring{\text{U}}$ 50'36	
direct	-4073 Mar 07 j 16:40	14° $\mathring{\text{U}}$ 52'40	0°54'56	retrograde	-4067 Jan 18 j 15:55	14° $\mathring{\text{U}}$ 06'56	
evening set	-4073 Mar 07 j 23:11	14° $\mathring{\text{U}}$ 51'59	17.59008 AU	opposition	-4067 Apr 04 j 15:57	12° $\mathring{\text{U}}$ 06'42	0°47'59
conjunction	-4073 May 24 j 00:56	12° $\mathring{\text{U}}$ 48'14		min. Earth dist.	-4067 Apr 04 j 09:33	12° $\mathring{\text{U}}$ 07'21	17.95576 AU
minimum elong	-4073 Aug 05 j 19:20	15° $\mathring{\text{U}}$		direct	-4067 Jun 20 j 19:36	10° $\mathring{\text{U}}$ 04'51	
max. Earth dist.				evening set	-4067 Sep 22 j 04:49	13° $\mathring{\text{U}}$ 23'05	
morning rise				conjunction	-4067 Oct 07 j 19:48	14° $\mathring{\text{U}}$ 20'20	0°42'12
retrograde				minimum elong	-4067 Oct 07 j 19:48	14° $\mathring{\text{U}}$ 20'20	0°42'15

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 28

Attention, astronomical year style is used: The year -4067 in astronomical counting style is the year 4068 BCE in historical counting style.

max. Earth dist.	-4067 Oct 08 j 03:49	14° <u>17</u> 21'34	19.98874 AU	min. Earth dist.	-4060 May 05 j 12:00	12° <u>0</u> 32'48	18.41179 AU
morning rise	-4067 Oct 23 j 09:34	15° <u>17</u> 17'26		direct	-4060 Jul 22 j 03:40	10° <u>0</u> 31'25	
retrograde	-4066 Jan 23 j 09:56	18° <u>17</u> 33'14		evening set	-4060 Oct 21 j 13:03	13° <u>0</u> 40'35	
opposition	-4066 Apr 09 j 13:51	16° <u>17</u> 33'06	0°45'45				
min. Earth dist.	-4066 Apr 09 j 04:51	16° <u>17</u> 34'02	18.02168 AU	conjunction	-4060 Nov 06 j 02:27	14° <u>0</u> 36'04	0°23'34
direct	-4066 Jun 25 j 18:14	14° <u>17</u> 31'41		minimum elong	-4060 Nov 06 j 02:27	14° <u>0</u> 36'04	0°23'31
evening set	-4066 Sep 26 j 18:55	17° <u>17</u> 48'36		max. Earth dist.	-4060 Nov 06 j 23:38	14° <u>0</u> 39'14	20.44378 AU
				morning rise	-4060 Nov 21 j 16:52	15° <u>0</u> 31'42	
conjunction	-4066 Oct 12 j 09:21	18° <u>17</u> 45'35	0°40'06	retrograde	-4059 Feb 22 j 12:53	18° <u>0</u> 43'38	
minimum elong	-4066 Oct 12 j 09:21	18° <u>17</u> 45'35	0°40'09	min. Earth dist.	-4059 May 10 j 03:43	16° <u>0</u> 45'58	18.47586 AU
max. Earth dist.	-4066 Oct 12 j 18:47	18° <u>17</u> 47'01	20.05463 AU	opposition	-4059 May 11 j 00:55	16° <u>0</u> 43'50	0°24'18
morning rise	-4066 Oct 27 j 23:04	19° <u>17</u> 42'27		direct	-4059 Jul 26 j 16:10	14° <u>0</u> 44'54	
retrograde	-4065 Jan 28 j 01:42	22° <u>17</u> 57'43		evening set	-4059 Oct 25 j 21:26	17° <u>0</u> 52'53	
opposition	-4065 Apr 14 j 11:07	20° <u>17</u> 57'38	0°43'17				
min. Earth dist.	-4065 Apr 14 j 00:55	20° <u>17</u> 58'40	18.08753 AU	conjunction	-4059 Nov 10 j 10:58	18° <u>0</u> 48'09	0°20'20
direct	-4065 Jun 30 j 13:00	18° <u>17</u> 56'35		minimum elong	-4059 Nov 10 j 10:58	18° <u>0</u> 48'09	0°20'18
evening set	-4065 Oct 01 j 08:07	22° <u>17</u> 12'12		max. Earth dist.	-4059 Nov 11 j 09:45	18° <u>0</u> 51'33	20.50754 AU
				morning rise	-4059 Nov 26 j 01:46	19° <u>0</u> 43'38	
conjunction	-4065 Oct 16 j 22:16	23° <u>17</u> 08'54	0°37'47	retrograde	-4058 Feb 27 j 02:28	22° <u>0</u> 55'04	
minimum elong	-4065 Oct 16 j 22:16	23° <u>17</u> 08'54	0°37'48	opposition	-4058 May 15 j 16:25	20° <u>0</u> 55'21	0°20'39
max. Earth dist.	-4065 Oct 17 j 09:59	23° <u>17</u> 10'41	20.12030 AU	min. Earth dist.	-4058 May 14 j 16:36	20° <u>0</u> 57'45	18.53911 AU
morning rise	-4065 Nov 01 j 11:51	24° <u>17</u> 05'32		direct	-4058 Jul 31 j 06:23	18° <u>0</u> 56'47	
retrograde	-4064 Feb 01 j 17:48	27° <u>17</u> 20'13		evening set	-4058 Oct 30 j 05:11	22° <u>0</u> 03'39	
opposition	-4064 Apr 18 j 07:15	25° <u>17</u> 20'12	0°40'34				
min. Earth dist.	-4064 Apr 17 j 18:25	25° <u>17</u> 21'31	18.15287 AU	conjunction	-4058 Nov 14 j 18:53	22° <u>0</u> 58'45	0°17'01
direct	-4064 Jul 04 j 09:43	23° <u>17</u> 19'31		minimum elong	-4058 Nov 14 j 18:53	22° <u>0</u> 58'45	0°16'57
evening set	-4064 Oct 04 j 20:28	26° <u>17</u> 33'48		max. Earth dist.	-4058 Nov 15 j 19:23	23° <u>0</u> 02'23	20.57007 AU
				morning rise	-4058 Nov 30 j 10:09	23° <u>0</u> 54'05	
conjunction	-4064 Oct 20 j 10:15	27° <u>17</u> 30'14	0°35'16	retrograde	-4057 Mar 03 j 13:22	27° <u>0</u> 05'03	
minimum elong	-4064 Oct 20 j 10:16	27° <u>17</u> 30'14	0°35'17	min. Earth dist.	-4057 May 19 j 07:17	25° <u>0</u> 07'52	18.60088 AU
max. Earth dist.	-4064 Oct 20 j 23:33	27° <u>17</u> 32'15	20.18541 AU	opposition	-4057 May 20 j 07:21	25° <u>0</u> 05'26	0°16'55
morning rise	-4064 Nov 04 j 23:55	28° <u>17</u> 26'39		direct	-4057 Aug 04 j 17:13	23° <u>0</u> 07'15	
	-4064 Dec 03 j 08:02	0° <u>0</u>		evening set	-4057 Nov 03 j 12:31	26° <u>0</u> 13'03	
retrograde	-4063 Feb 05 j 07:53	1° <u>0</u> 40'46					
	-4063 Apr 15 j 05:21	30° <u>0</u> 8'17		conjunction	-4057 Nov 19 j 02:29	27° <u>0</u> 07'58	0°13'37
opposition	-4063 Apr 23 j 02:55	29° <u>0</u> 40'46	0°37'38	minimum elong	-4057 Nov 19 j 02:29	27° <u>0</u> 07'58	0°13'33
min. Earth dist.	-4063 Apr 22 j 13:06	29° <u>0</u> 42'10	18.21788 AU	behind sun begin	-4057 Nov 18 j 22:44	27° <u>0</u> 07'25	
direct	-4063 Jul 09 j 02:43	27° <u>0</u> 40'26		behind sun end	-4057 Nov 19 j 06:13	27° <u>0</u> 08'30	
	-4063 Sep 23 j 17:30	0° <u>0</u>		max. Earth dist.	-4057 Nov 20 j 04:01	27° <u>0</u> 11'44	20.63088 AU
evening set	-4063 Oct 09 j 07:42	0° <u>0</u> 53'23		morning rise	-4057 Dec 04 j 18:14	28° <u>0</u> 03'09	
					-4056 Jan 11 j 17:48	0° <u>0</u>	
conjunction	-4063 Oct 24 j 21:20	1° <u>0</u> 49'33	0°32'33	retrograde	-4056 Mar 07 j 02:12	1° <u>0</u> 13'41	
minimum elong	-4063 Oct 24 j 21:21	1° <u>0</u> 49'33	0°32'33		-4056 May 04 j 08:54	30° <u>0</u> 8'41	
max. Earth dist.	-4063 Oct 25 j 12:53	1° <u>0</u> 51'54	20.25030 AU	opposition	-4056 May 23 j 21:19	29° <u>0</u> 14'10	0°13'06
morning rise	-4063 Nov 09 j 11:02	2° <u>0</u> 45'45		min. Earth dist.	-4056 May 22 j 19:10	29° <u>0</u> 16'48	18.66051 AU
retrograde	-4062 Feb 09 j 22:36	5° <u>0</u> 59'18		direct	-4056 Aug 08 j 06:07	27° <u>0</u> 16'21	
opposition	-4062 Apr 27 j 21:38	3° <u>0</u> 59'20	0°34'32		-4056 Oct 31 j 14:45	0° <u>0</u>	
min. Earth dist.	-4062 Apr 27 j 04:54	4° <u>0</u> 01'02	18.28261 AU	evening set	-4056 Nov 06 j 19:26	0° <u>0</u> 21'07	
direct	-4062 Jul 13 j 21:01	1° <u>0</u> 59'19					
evening set	-4062 Oct 13 j 18:18	5° <u>0</u> 10'58		conjunction	-4056 Nov 22 j 09:40	1° <u>0</u> 15'53	0°10'11
				minimum elong	-4056 Nov 22 j 09:40	1° <u>0</u> 15'53	0°10'05
conjunction	-4062 Oct 29 j 07:45	6° <u>0</u> 06'54	0°29'42	behind sun begin	-4056 Nov 22 j 04:22	1° <u>0</u> 15'07	
minimum elong	-4062 Oct 29 j 07:45	6° <u>0</u> 06'54	0°29'41	behind sun end	-4056 Nov 22 j 14:58	1° <u>0</u> 16'39	
max. Earth dist.	-4062 Oct 30 j 01:08	6° <u>0</u> 09'31	20.31491 AU	max. Earth dist.	-4056 Nov 23 j 12:36	1° <u>0</u> 19'51	20.68911 AU
morning rise	-4062 Nov 13 j 21:39	7° <u>0</u> 02'54		morning rise	-4056 Dec 08 j 01:58	2° <u>0</u> 10'57	
retrograde	-4061 Feb 14 j 11:21	10° <u>0</u> 15'54		retrograde	-4055 Mar 11 j 12:37	5° <u>0</u> 21'04	
opposition	-4061 May 02 j 15:33	8° <u>0</u> 15'57	0°31'16	min. Earth dist.	-4055 May 27 j 08:58	3° <u>0</u> 24'16	18.71735 AU
min. Earth dist.	-4061 May 01 j 21:56	8° <u>0</u> 17'44	18.34731 AU	opposition	-4055 May 28 j 10:57	3° <u>0</u> 21'39	0°09'15
direct	-4061 Jul 18 j 11:39	6° <u>0</u> 16'17		direct	-4055 Aug 12 j 15:51	1° <u>0</u> 24'10	
evening set	-4061 Oct 18 j 04:01	9° <u>0</u> 26'40		evening set	-4055 Nov 11 j 01:50	4° <u>0</u> 27'58	
conjunction	-4061 Nov 02 j 17:28	10° <u>0</u> 22'22	0°26'42	conjunction	-4055 Nov 26 j 16:26	5° <u>0</u> 22'35	0°06'42
minimum elong	-4061 Nov 02 j 17:28	10° <u>0</u> 22'22	0°26'40	minimum elong	-4055 Nov 26 j 16:26	5° <u>0</u> 22'35	0°06'36
max. Earth dist.	-4061 Nov 03 j 12:48	10° <u>0</u> 25'16	20.37955 AU	behind sun begin	-4055 Nov 26 j 10:18	5° <u>0</u> 21'42	
morning rise	-4061 Nov 18 j 07:35	11° <u>0</u> 18'11		behind sun end	-4055 Nov 26 j 22:35	5° <u>0</u> 23'28	
retrograde	-4060 Feb 19 j 01:11	14° <u>0</u> 30'37		max. Earth dist.	-4055 Nov 27 j 19:59	5° <u>0</u> 26'38	20.74433 AU
opposition	-4060 May 06 j 08:31	12° <u>0</u> 30'44	0°27'51	morning rise	-4055 Dec 12 j 09:23	6° <u>0</u> 17'33	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 29

Attention, astronomical year style is used: The year -4054 in astronomical counting style is the year 4055 BCE in historical counting style.

retrograde	-4054 Mar 16 j 00:31	9°M.27'17		direct	-4049 Sep 06 j 22:52	25°M.46'08	
opposition	-4054 Jun 01 j 23:49	7°M.27'56	0°05'21	evening set	-4049 Dec 05 j 09:57	28°M.45'18	
min. Earth dist.	-4054 May 31 j 20:12	7°M.30'42	18.77076 AU				
direct	-4054 Aug 17 j 03:30	5°M.30'45		conjunction	-4049 Dec 21 j 03:59	29°M.39'24	-0°14'09
evening set	-4054 Nov 15 j 08:04	8°M.33'38		minimum elong	-4049 Dec 21 j 03:59	29°M.39'24	0°14'19
				behind sun begin	-4049 Dec 21 j 00:49	29°M.38'57	
conjunction	-4054 Nov 30 j 23:05	9°M.28'08	0°03'11	behind sun end	-4049 Dec 21 j 07:08	29°M.39'50	
minimum elong	-4054 Nov 30 j 23:06	9°M.28'08	0°03'05	max. Earth dist.	-4049 Dec 22 j 09:25	29°M.43'39	20.98548 AU
behind sun begin	-4054 Nov 30 j 16:35	9°M.27'12			-4049 Dec 27 j 02:47	0°X	
behind sun end	-4054 Dec 01 j 05:37	9°M.29'04		morning rise	-4048 Jan 06 j 01:34	0°X34'00	
max. Earth dist.	-4054 Dec 02 j 03:37	9°M.32'18	20.79562 AU	retrograde	-4048 Apr 09 j 09:34	3°X41'46	
morning rise	-4054 Dec 16 j 16:41	10°M.23'00		min. Earth dist.	-4048 Jun 25 j 10:46	1°X45'13	18.99920 AU
retrograde	-4053 Mar 20 j 10:15	13°M.32'21		opposition	-4048 Jun 26 j 15:25	1°X42'21	-0°17'28
min. Earth dist.	-4053 Jun 05 j 08:59	11°M.35'46	18.82002 AU		-4048 Aug 17 j 15:01	30°R.M.	
opposition	-4053 Jun 06 j 12:00	11°M.33'03	0°01'27	direct	-4048 Sep 10 j 06:00	29°M.46'06	
direct	-4053 Aug 21 j 12:30	9°M.36'07			-4048 Oct 03 j 11:55	0°X	
desc. node	-4053 Oct 23 j 02:50	11°M.11'18		evening set	-4048 Dec 08 j 14:26	2°X44'44	
evening set	-4053 Nov 19 j 13:55	12°M.38'10					
				conjunction	-4048 Dec 24 j 09:13	3°X38'49	-0°17'24
conjunction	-4053 Dec 05 j 05:27	13°M.32'33	-0°00'25	minimum elong	-4048 Dec 24 j 09:12	3°X38'49	0°17'34
minimum elong	-4053 Dec 05 j 05:27	13°M.32'33	0°00'33	max. Earth dist.	-4048 Dec 25 j 15:21	3°X43'09	21.01116 AU
behind sun begin	-4053 Dec 04 j 22:55	13°M.31'37		morning rise	-4047 Jan 09 j 07:38	4°X33'25	
behind sun end	-4053 Dec 05 j 11:58	13°M.33'28		retrograde	-4047 Apr 13 j 16:28	7°X40'58	
max. Earth dist.	-4053 Dec 06 j 09:55	13°M.36'42	20.84268 AU	min. Earth dist.	-4047 Jun 29 j 20:05	5°X44'19	19.02318 AU
morning rise	-4053 Dec 20 j 23:46	14°M.27'20		opposition	-4047 Jul 01 j 00:01	5°X41'31	-0°21'01
	-4053 Dec 30 j 17:58	15°M.		direct	-4047 Sep 14 j 12:10	3°X45'21	
retrograde	-4052 Mar 23 j 21:11	17°M.36'19		evening set	-4047 Dec 12 j 18:46	6°X43'32	
opposition	-4052 Jun 09 j 23:32	15°M.37'03	-0°02'26				
min. Earth dist.	-4052 Jun 08 j 19:18	15°M.39'52	18.86475 AU	conjunction	-4047 Dec 28 j 14:19	7°X37'36	-0°20'34
	-4052 Jun 25 j 16:29	15°R.M.		minimum elong	-4047 Dec 28 j 14:19	7°X37'36	0°20'43
direct	-4052 Aug 24 j 22:22	13°M.40'19		max. Earth dist.	-4047 Dec 29 j 20:00	7°X41'52	21.03347 AU
	-4052 Oct 20 j 20:30	15°M.		morning rise	-4046 Jan 13 j 13:45	8°X32'13	
evening set	-4052 Nov 22 j 19:19	16°M.41'33		retrograde	-4046 Apr 18 j 02:25	11°X39'37	
				min. Earth dist.	-4046 Jul 04 j 03:35	9°X42'59	19.04374 AU
conjunction	-4052 Dec 08 j 11:23	17°M.35'50	-0°03'59	opposition	-4046 Jul 05 j 08:05	9°X40'08	-0°24'28
minimum elong	-4052 Dec 08 j 11:23	17°M.35'50	0°04'05	direct	-4046 Sep 18 j 18:42	7°X44'03	
behind sun begin	-4052 Dec 08 j 04:55	17°M.34'55		evening set	-4046 Dec 16 j 23:12	10°X41'52	
behind sun end	-4052 Dec 08 j 17:51	17°M.36'45					
max. Earth dist.	-4052 Dec 09 j 16:38	17°M.40'05	20.88495 AU	conjunction	-4045 Jan 01 j 19:37	11°X35'57	-0°23'37
morning rise	-4052 Dec 24 j 06:26	18°M.30'33		minimum elong	-4045 Jan 01 j 19:37	11°X35'57	0°23'47
retrograde	-4051 Mar 28 j 05:43	21°M.39'12		max. Earth dist.	-4045 Jan 03 j 01:44	11°X40'16	21.05212 AU
min. Earth dist.	-4051 Jun 13 j 07:02	19°M.42'41	18.90472 AU	morning rise	-4045 Jan 17 j 19:55	12°X30'36	
opposition	-4051 Jun 14 j 10:36	19°M.39'55	-0°06'17	retrograde	-4045 Apr 22 j 08:56	15°X37'52	
direct	-4051 Aug 29 j 06:58	17°M.43'22		opposition	-4045 Jul 09 j 15:38	13°X38'24	-0°27'47
evening set	-4051 Nov 27 j 00:28	20°M.43'50		min. Earth dist.	-4045 Jul 08 j 12:09	13°X41'09	19.06057 AU
				direct	-4045 Sep 22 j 23:31	11°X42'23	
conjunction	-4051 Dec 12 j 17:09	21°M.38'02	-0°07'25	evening set	-4045 Dec 21 j 03:40	14°X39'56	
minimum elong	-4051 Dec 12 j 17:09	21°M.38'02	0°07'34				
behind sun begin	-4051 Dec 12 j 11:11	21°M.37'12		conjunction	-4044 Jan 06 j 00:55	15°X34'03	-0°26'34
behind sun end	-4051 Dec 12 j 23:07	21°M.38'53		minimum elong	-4044 Jan 06 j 00:55	15°X34'03	0°26'43
max. Earth dist.	-4051 Dec 13 j 22:11	21°M.42'15	20.92273 AU	max. Earth dist.	-4044 Jan 07 j 06:12	15°X38'14	21.06716 AU
morning rise	-4051 Dec 28 j 13:03	22°M.32'42		morning rise	-4044 Jan 22 j 02:15	16°X28'44	
retrograde	-4050 Apr 01 j 16:05	25°M.41'02		retrograde	-4044 Apr 25 j 18:35	19°X35'55	
opposition	-4050 Jun 18 j 20:48	23°M.41'42	-0°10'05	opposition	-4044 Jul 12 j 22:58	17°X36'28	-0°30'58
min. Earth dist.	-4050 Jun 17 j 16:16	23°M.44'33	18.94030 AU	min. Earth dist.	-4044 Jul 11 j 19:19	17°X39'14	19.07364 AU
direct	-4050 Sep 02 j 15:12	21°M.45'16		direct	-4044 Sep 26 j 05:29	15°X40'31	
evening set	-4050 Dec 01 j 05:18	24°M.45'02		evening set	-4044 Dec 24 j 08:08	18°X37'52	
conjunction	-4050 Dec 16 j 22:41	25°M.39'11	-0°10'49	conjunction	-4043 Jan 09 j 06:18	19°X32'02	-0°29'23
minimum elong	-4050 Dec 16 j 22:41	25°M.39'11	0°10'57	minimum elong	-4043 Jan 09 j 06:18	19°X32'02	0°29'34
behind sun begin	-4050 Dec 16 j 17:41	25°M.38'29		max. Earth dist.	-4043 Jan 10 j 11:48	19°X36'15	21.07809 AU
behind sun end	-4050 Dec 17 j 03:41	25°M.39'53		morning rise	-4043 Jan 25 j 08:32	20°X26'46	
max. Earth dist.	-4050 Dec 18 j 04:26	25°M.43'29	20.95607 AU	retrograde	-4043 Apr 30 j 01:25	23°X33'57	
morning rise	-4049 Jan 01 j 19:24	26°M.33'50		min. Earth dist.	-4043 Jul 16 j 03:42	21°X37'09	19.08244 AU
retrograde	-4049 Apr 05 j 23:33	29°M.41'51		opposition	-4043 Jul 17 j 06:06	21°X34'30	-0°34'00
min. Earth dist.	-4049 Jun 22 j 02:41	27°M.45'15	18.97162 AU	direct	-4043 Sep 30 j 09:56	19°X38'37	
opposition	-4049 Jun 23 j 06:29	27°M.42'28	-0°13'49	evening set	-4043 Dec 28 j 12:59	22°X35'51	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 30

Attention, astronomical year style is used: The year -4042 in astronomical counting style is the year 4043 BCE in historical counting style.

conjunction	-4042 Jan 13 j 12:03	23° \nearrow 30'04	-0°32'04	retrograde	-4036 May 28 j 13:15	21° \searrow 26'40	
minimum elong	-4042 Jan 13 j 12:03	23° \nearrow 30'04	0°32'14	min. Earth dist.	-4036 Aug 13 j 09:13	19° \searrow 28'32	18.99881 AU
max. Earth dist.	-4042 Jan 14 j 16:16	23° \nearrow 34'06	21.08478 AU	opposition	-4036 Aug 14 j 02:51	19° \searrow 26'45	-0°50'03
morning rise	-4042 Jan 29 j 15:21	24° \nearrow 24'53		direct	-4036 Oct 27 j 20:48	17° \searrow 30'00	
retrograde	-4042 May 04 j 10:40	27° \nearrow 32'04		evening set	-4035 Jan 25 j 08:31	20° \searrow 28'21	
min. Earth dist.	-4042 Jul 20 j 10:49	25° \nearrow 35'15	19.08677 AU				
opposition	-4042 Jul 21 j 12:49	25° \nearrow 32'38	-0°36'53	conjunction	-4035 Feb 10 j 14:41	21° \searrow 23'28	-0°45'55
direct	-4042 Oct 04 j 15:17	23° \nearrow 36'45		minimum elong	-4035 Feb 10 j 14:41	21° \searrow 23'28	0°46'05
evening set	-4041 Jan 01 j 18:12	26° \nearrow 33'58		max. Earth dist.	-4035 Feb 11 j 09:47	21° \searrow 26'11	20.98300 AU
				morning rise	-4035 Feb 27 j 00:49	22° \searrow 19'09	
conjunction	-4041 Jan 17 j 18:15	27° \nearrow 28'17	-0°34'36	retrograde	-4035 Jun 01 j 21:21	25° \searrow 27'04	
minimum elong	-4041 Jan 17 j 18:15	27° \nearrow 28'17	0°34'47	opposition	-4035 Aug 18 j 08:56	23° \searrow 27'00	-0°51'27
max. Earth dist.	-4041 Jan 18 j 22:06	27° \nearrow 32'15	21.08652 AU	min. Earth dist.	-4035 Aug 17 j 17:03	23° \searrow 28'38	18.96686 AU
morning rise	-4041 Feb 02 j 22:27	28° \nearrow 23'11		direct	-4035 Nov 01 j 01:46	21° \searrow 30'01	
	-4041 Mar 06 j 15:52	0° \searrow		evening set	-4034 Jan 29 j 16:25	24° \searrow 28'47	
retrograde	-4041 May 08 j 18:17	1° \searrow 30'24					
	-4041 Jul 13 j 16:19	30° \nearrow		conjunction	-4034 Feb 14 j 23:34	25° \searrow 24'05	-0°47'04
opposition	-4041 Jul 25 j 19:28	29° \nearrow 30'58	-0°39'35	minimum elong	-4034 Feb 14 j 23:34	25° \searrow 24'05	0°47'14
min. Earth dist.	-4041 Jul 24 j 19:07	29° \nearrow 33'25	19.08590 AU	max. Earth dist.	-4034 Feb 15 j 16:21	25° \searrow 26'28	20.94934 AU
direct	-4041 Oct 08 j 19:44	27° \nearrow 35'05		morning rise	-4034 Mar 03 j 10:47	26° \searrow 19'57	
	-4041 Dec 27 j 01:57	0° \searrow		retrograde	-4034 Jun 06 j 07:20	29° \searrow 28'06	
evening set	-4040 Jan 05 j 23:40	0° \searrow 32'19		opposition	-4034 Aug 22 j 14:54	27° \searrow 27'53	-0°52'36
				min. Earth dist.	-4034 Aug 22 j 00:18	27° \searrow 29'23	18.93148 AU
conjunction	-4040 Jan 22 j 00:36	1° \searrow 26'44	-0°36'58	direct	-4034 Nov 05 j 07:04	25° \searrow 30'36	
minimum elong	-4040 Jan 22 j 00:36	1° \searrow 26'43	0°37'09	evening set	-4033 Feb 03 j 00:49	28° \searrow 29'55	
max. Earth dist.	-4040 Jan 23 j 02:36	1° \searrow 30'26	21.08302 AU				
morning rise	-4040 Feb 07 j 05:52	2° \searrow 21'43		conjunction	-4033 Feb 19 j 09:05	29° \searrow 25'25	-0°48'00
retrograde	-4040 May 12 j 03:01	5° \searrow 29'01		minimum elong	-4033 Feb 19 j 09:05	29° \searrow 25'25	0°48'09
min. Earth dist.	-4040 Jul 28 j 02:23	3° \searrow 31'56	19.07961 AU	max. Earth dist.	-4033 Feb 20 j 01:04	29° \searrow 27'42	20.91224 AU
opposition	-4040 Jul 29 j 01:58	3° \searrow 29'33	-0°42'07				
direct	-4040 Oct 12 j 00:54	1° \searrow 33'35		morning rise	-4033 Mar 07 j 21:05	0° \approx 21'28	
evening set	-4039 Jan 09 j 05:32	4° \searrow 30'56		retrograde	-4033 Jun 10 j 16:15	3° \approx 29'53	
				opposition	-4033 Aug 26 j 21:07	1° \approx 29'33	-0°53'30
conjunction	-4039 Jan 25 j 07:32	5° \searrow 25'27	-0°39'09	min. Earth dist.	-4033 Aug 26 j 08:11	1° \approx 30'53	18.89281 AU
minimum elong	-4039 Jan 25 j 07:31	5° \searrow 25'27	0°39'20				
max. Earth dist.	-4039 Jan 26 j 08:45	5° \searrow 29'02	21.07380 AU	direct	-4033 Oct 07 j 01:24	30° \nearrow	
morning rise	-4039 Feb 10 j 13:42	6° \searrow 20'33			-4033 Nov 09 j 12:25	29° \searrow 32'01	
retrograde	-4039 May 16 j 11:00	9° \searrow 27'56		evening set	-4033 Dec 12 j 10:32	0° \approx	
min. Earth dist.	-4039 Aug 01 j 10:39	7° \searrow 30'36	19.06749 AU		-4032 Feb 07 j 09:42	2° \approx 31'55	
opposition	-4039 Aug 02 j 08:24	7° \searrow 28'24	-0°44'25	conjunction	-4032 Feb 23 j 18:54	3° \approx 27'38	-0°48'41
direct	-4039 Oct 16 j 05:30	5° \searrow 32'19		minimum elong	-4032 Feb 23 j 18:54	3° \approx 27'38	0°48'50
evening set	-4038 Jan 13 j 11:45	8° \searrow 29'49		max. Earth dist.	-4032 Feb 24 j 08:25	3° \approx 29'33	20.87223 AU
				morning rise	-4032 Mar 11 j 07:54	4° \approx 23'52	
conjunction	-4038 Jan 29 j 14:44	9° \searrow 24'28	-0°41'09	retrograde	-4032 Jun 14 j 02:50	7° \approx 32'38	
minimum elong	-4038 Jan 29 j 14:44	9° \searrow 24'28	0°41'20	opposition	-4032 Aug 30 j 03:32	5° \approx 32'11	-0°54'09
max. Earth dist.	-4038 Jan 30 j 13:43	9° \searrow 27'44	21.05894 AU	min. Earth dist.	-4032 Aug 29 j 15:55	5° \approx 33'23	18.85142 AU
morning rise	-4038 Feb 14 j 22:02	10° \searrow 19'42		direct	-4032 Nov 12 j 17:59	3° \approx 34'23	
retrograde	-4038 May 20 j 20:00	13° \searrow 27'10		evening set	-4031 Feb 10 j 19:18	6° \approx 34'58	
opposition	-4038 Aug 06 j 14:41	11° \searrow 27'32	-0°46'32				
min. Earth dist.	-4038 Aug 05 j 18:03	11° \searrow 29'38	19.04975 AU	conjunction	-4031 Feb 27 j 05:37	7° \approx 30'55	-0°49'08
direct	-4038 Oct 20 j 10:48	9° \searrow 31'16		minimum elong	-4031 Feb 27 j 05:37	7° \approx 30'55	0°49'17
evening set	-4037 Jan 17 j 18:21	12° \searrow 28'59		max. Earth dist.	-4031 Feb 27 j 18:18	7° \approx 32'44	20.82945 AU
				morning rise	-4031 Mar 15 j 19:21	8° \approx 27'22	
conjunction	-4037 Feb 02 j 22:26	13° \searrow 23'46	-0°42'57	retrograde	-4031 Jun 18 j 12:54	11° \approx 36'29	
minimum elong	-4037 Feb 02 j 22:26	13° \searrow 23'46	0°43'07	opposition	-4031 Sep 03 j 10:06	9° \approx 35'58	-0°54'31
max. Earth dist.	-4037 Feb 03 j 20:30	13° \searrow 26'54	21.03840 AU	min. Earth dist.	-4031 Sep 03 j 00:12	9° \approx 37'00	18.80727 AU
morning rise	-4037 Feb 19 j 06:36	14° \searrow 19'08		direct	-4031 Nov 16 j 23:55	7° \approx 37'56	
retrograde	-4037 May 25 j 03:45	17° \searrow 26'43		evening set	-4030 Feb 15 j 05:45	10° \approx 39'16	
opposition	-4037 Aug 10 j 20:45	15° \searrow 26'58	-0°48'24				
min. Earth dist.	-4037 Aug 10 j 02:00	15° \searrow 28'52	19.02655 AU	conjunction	-4030 Mar 03 j 17:00	11° \approx 35'28	-0°49'21
direct	-4037 Oct 24 j 15:31	13° \searrow 30'28		minimum elong	-4030 Mar 03 j 17:00	11° \approx 35'28	0°49'29
evening set	-4036 Jan 22 j 01:18	16° \searrow 28'28		max. Earth dist.	-4030 Mar 04 j 02:49	11° \approx 36'52	20.78412 AU
				morning rise	-4030 Mar 20 j 07:43	12° \approx 32'09	
conjunction	-4036 Feb 07 j 06:22	17° \searrow 23'24	-0°44'33		-4030 May 12 j 13:02	15° \approx	
minimum elong	-4036 Feb 07 j 06:22	17° \searrow 23'24	0°44'44	retrograde	-4030 Jun 23 j 00:41	15° \approx 41'40	
max. Earth dist.	-4036 Feb 08 j 02:10	17° \searrow 26'13	21.01293 AU		-4030 Aug 04 j 01:51	15° \approx	
morning rise	-4036 Feb 23 j 15:37	18° \searrow 18'55		opposition	-4030 Sep 07 j 17:03	13° \approx 41'05	-0°54'38

Attention, astronomical year style is used: The year -4030 in astronomical counting style is the year 4031 BCE in historical counting style.

min. Earth dist.	-4030 Sep 07 j 08:49	13° \approx 41'56	18.76056 AU	conjunction	-4023 Apr 02 j 23:52	10° \approx 50'46	-0°43'40
direct	-4030 Nov 21 j 06:12	11° \approx 42'47		minimum elong	-4023 Apr 02 j 23:52	10° \approx 50'46	0°43'43
evening set	-4029 Feb 19 j 16:56	14° \approx 44'58		max. Earth dist.	-4023 Apr 02 j 17:57	10° \approx 49'54	20.38207 AU
	-4029 Feb 24 j 03:38	15° \approx		morning rise	-4023 Apr 19 j 18:42	11° \approx 49'11	
				retrograde	-4023 Jul 22 j 21:45	15° \approx 02'02	
conjunction	-4029 Mar 08 j 05:14	15° \approx 41'25	-0°49'19	opposition	-4023 Oct 06 j 05:34	13° \approx 00'45	-0°47'25
minimum elong	-4029 Mar 08 j 05:14	15° \approx 41'26	0°49'27	min. Earth dist.	-4023 Oct 06 j 11:33	13° \approx 00'06	18.34824 AU
max. Earth dist.	-4029 Mar 08 j 13:59	15° \approx 42'41	20.73595 AU	direct	-4023 Dec 19 j 20:07	10° \approx 59'59	
morning rise	-4029 Mar 24 j 20:33	16° \approx 38'20		evening set	-4022 Mar 21 j 23:51	14° \approx 09'27	
retrograde	-4029 Jun 27 j 11:57	19° \approx 48'17					
opposition	-4029 Sep 12 j 00:16	17° \approx 47'40	-0°54'28	conjunction	-4022 Apr 07 j 17:46	15° \approx 07'54	-0°41'49
min. Earth dist.	-4029 Sep 11 j 17:53	17° \approx 48'20	18.71092 AU	minimum elong	-4022 Apr 07 j 17:47	15° \approx 07'54	0°41'53
direct	-4029 Nov 25 j 12:47	15° \approx 49'07		max. Earth dist.	-4022 Apr 07 j 08:18	15° \approx 06'30	20.31427 AU
evening set	-4028 Feb 24 j 05:03	18° \approx 52'13		morning rise	-4022 Apr 24 j 13:07	16° \approx 06'34	
				retrograde	-4022 Jul 27 j 12:21	19° \approx 19'56	
conjunction	-4028 Mar 11 j 18:09	19° \approx 48'56	-0°49'01	opposition	-4022 Oct 10 j 16:18	17° \approx 18'27	-0°45'15
minimum elong	-4028 Mar 11 j 18:09	19° \approx 48'56	0°49'08	min. Earth dist.	-4022 Oct 11 j 00:42	17° \approx 17'33	18.27997 AU
max. Earth dist.	-4028 Mar 11 j 23:41	19° \approx 49'44	20.68498 AU	direct	-4022 Dec 24 j 07:42	15° \approx 17'14	
morning rise	-4028 Mar 28 j 10:21	20° \approx 46'05		evening set	-4021 Mar 26 j 17:48	18° \approx 27'53	
retrograde	-4028 Jul 01 j 01:02	23° \approx 56'31					
opposition	-4028 Sep 15 j 07:57	21° \approx 55'50	-0°54'00	conjunction	-4021 Apr 12 j 12:27	19° \approx 26'38	-0°39'44
min. Earth dist.	-4028 Sep 15 j 03:37	21° \approx 56'17	18.65842 AU	minimum elong	-4021 Apr 12 j 12:27	19° \approx 26'38	0°39'46
direct	-4028 Nov 28 j 20:15	19° \approx 57'00		max. Earth dist.	-4021 Apr 12 j 01:59	19° \approx 25'06	20.24562 AU
evening set	-4027 Feb 27 j 17:53	23° \approx 01'04		morning rise	-4021 Apr 29 j 07:52	20° \approx 25'32	
				retrograde	-4021 Aug 01 j 03:55	23° \approx 39'24	
conjunction	-4027 Mar 16 j 08:04	23° \approx 58'04	-0°48'28	opposition	-4021 Oct 15 j 03:31	21° \approx 37'46	-0°42'50
minimum elong	-4027 Mar 16 j 08:04	23° \approx 58'04	0°48'35	min. Earth dist.	-4021 Oct 15 j 13:08	21° \approx 36'45	18.21118 AU
max. Earth dist.	-4027 Mar 16 j 12:15	23° \approx 58'40	20.63078 AU	direct	-4021 Dec 28 j 21:15	19° \approx 36'07	
morning rise	-4027 Apr 02 j 00:47	24° \approx 55'28		evening set	-4020 Mar 30 j 12:47	22° \approx 47'58	
retrograde	-4027 Jul 05 j 13:38	28° \approx 06'22					
opposition	-4027 Sep 19 j 16:08	26° \approx 05'38	-0°53'16	conjunction	-4020 Apr 16 j 07:46	23° \approx 47'01	-0°37'25
min. Earth dist.	-4027 Sep 19 j 13:48	26° \approx 05'52	18.60246 AU	minimum elong	-4020 Apr 16 j 07:47	23° \approx 47'01	0°37'26
direct	-4027 Dec 03 j 03:46	24° \approx 06'29		max. Earth dist.	-4020 Apr 15 j 18:06	23° \approx 45'00	20.17693 AU
evening set	-4026 Mar 04 j 07:54	27° \approx 11'34		morning rise	-4020 May 03 j 03:31	24° \approx 46'10	
				retrograde	-4020 Aug 04 j 18:53	28° \approx 00'34	
conjunction	-4026 Mar 20 j 22:48	28° \approx 08'50	-0°47'40	opposition	-4020 Oct 18 j 15:25	25° \approx 58'47	-0°40'08
minimum elong	-4026 Mar 20 j 22:48	28° \approx 08'50	0°47'45	min. Earth dist.	-4020 Oct 19 j 03:20	25° \approx 57'30	18.14282 AU
max. Earth dist.	-4026 Mar 20 j 23:17	28° \approx 08'55	20.57319 AU	direct	-4019 Jan 01 j 09:59	23° \approx 56'41	
morning rise	-4026 Apr 06 j 16:19	29° \approx 06'29		evening set	-4019 Apr 04 j 08:26	27° \approx 09'47	
	-4026 Apr 23 j 01:02	0° \approx					
retrograde	-4026 Jul 10 j 03:44	2° \approx 17'54		conjunction	-4019 Apr 21 j 04:04	28° \approx 09'07	-0°34'52
opposition	-4026 Sep 24 j 00:43	0° \approx 17'02	-0°52'14	minimum elong	-4019 Apr 21 j 04:04	28° \approx 09'07	0°34'53
min. Earth dist.	-4026 Sep 24 j 00:46	0° \approx 17'02	18.54317 AU	max. Earth dist.	-4019 Apr 20 j 13:31	28° \approx 06'58	20.10892 AU
	-4026 Sep 30 j 19:21	30° \approx		morning rise	-4019 May 07 j 23:47	29° \approx 08'31	
direct	-4026 Dec 07 j 13:01	28° \approx 17'32			-4019 May 23 j 07:34	0° \approx	
	-4025 Feb 10 j 13:19	0° \approx		retrograde	-4019 Aug 09 j 12:08	2° \approx 23'26	
evening set	-4025 Mar 08 j 22:36	1° \approx 23'40		opposition	-4019 Oct 23 j 03:58	0° \approx 21'32	-0°37'12
				min. Earth dist.	-4019 Oct 23 j 16:48	0° \approx 20'09	18.07528 AU
conjunction	-4025 Mar 25 j 14:29	2° \approx 21'14	-0°46'35		-4019 Oct 31 j 13:12	30° \approx	
minimum elong	-4025 Mar 25 j 14:29	2° \approx 21'14	0°46'40	direct	-4018 Jan 06 j 01:26	28° \approx 19'02	
max. Earth dist.	-4025 Mar 25 j 13:29	2° \approx 21'06	20.51221 AU		-4018 Mar 11 j 05:53	0° \approx	
morning rise	-4025 Apr 11 j 08:22	3° \approx 19'08		evening set	-4018 Apr 09 j 05:15	1° \approx 33'25	
retrograde	-4025 Jul 14 j 17:02	6° \approx 31'01		max. Earth dist.	-4018 Apr 25 j 07:32	2° \approx 30'26	20.04201 AU
opposition	-4025 Sep 28 j 09:52	4° \approx 30'03	-0°50'55				
min. Earth dist.	-4025 Sep 28 j 11:47	4° \approx 29'51	18.48057 AU	conjunction	-4018 Apr 26 j 01:02	2° \approx 33'02	-0°32'06
direct	-4025 Dec 11 j 22:08	2° \approx 30'10		minimum elong	-4018 Apr 26 j 01:02	2° \approx 33'02	0°32'05
evening set	-4024 Mar 12 j 14:06	5° \approx 37'21		morning rise	-4018 May 12 j 20:51	3° \approx 32'40	
				retrograde	-4018 Aug 14 j 04:12	6° \approx 48'08	
conjunction	-4024 Mar 29 j 06:37	6° \approx 35'13	-0°45'15	opposition	-4018 Oct 27 j 17:19	4° \approx 46'09	-0°34'02
minimum elong	-4024 Mar 29 j 06:37	6° \approx 35'13	0°45'20	min. Earth dist.	-4018 Oct 28 j 08:24	4° \approx 44'31	18.00922 AU
max. Earth dist.	-4024 Mar 29 j 01:58	6° \approx 34'32	20.44831 AU	direct	-4017 Jan 10 j 15:36	2° \approx 43'15	
morning rise	-4024 Apr 15 j 01:11	7° \approx 33'22		evening set	-4017 Apr 14 j 02:44	5° \approx 58'57	
retrograde	-4024 Jul 18 j 07:35	10° \approx 45'45					
opposition	-4024 Oct 01 j 19:34	8° \approx 44'37	-0°49'19	conjunction	-4017 Apr 30 j 22:54	6° \approx 58'51	-0°29'08
min. Earth dist.	-4024 Oct 01 j 23:53	8° \approx 44'10	18.41543 AU	minimum elong	-4017 Apr 30 j 22:55	6° \approx 58'51	0°29'08
direct	-4024 Dec 15 j 08:46	6° \approx 44'18		max. Earth dist.	-4017 Apr 30 j 04:35	6° \approx 56'07	19.97682 AU
evening set	-4023 Mar 17 j 06:27	9° \approx 52'37		morning rise	-4017 May 17 j 18:31	7° \approx 58'42	

Attention, astronomical year style is used: The year -4017 in astronomical counting style is the year 4018 BCE in historical counting style.

retrograde	-4017 Aug 18 j 23:13	11° Υ 14'44		behind sun end	-4011 May 29 j 07:41	4° \mathcal{B} 16'09	
opposition	-4017 Nov 01 j 07:24	9° Υ 12'42	-0°30'38	morning rise	-4011 Jun 14 j 18:36	5° \mathcal{B} 16'13	
min. Earth dist.	-4017 Nov 01 j 23:05	9° Υ 11'00	17.94490 AU	retrograde	-4011 Sep 15 j 01:57	8° \mathcal{B} 35'21	
direct	-4016 Jan 15 j 08:41	7° Υ 09'29		opposition	-4011 Nov 27 j 13:36	6° \mathcal{B} 33'15	-0°06'25
evening set	-4016 Apr 18 j 01:07	10° Υ 26'29		min. Earth dist.	-4011 Nov 28 j 13:38	6° \mathcal{B} 30'38	17.59669 AU
				direct	-4010 Feb 11 j 04:10	4° \mathcal{B} 28'10	
conjunction	-4016 May 04 j 21:21	11° Υ 26'38	-0°25'58	evening set	-4010 May 17 j 09:07	7° \mathcal{B} 52'41	
minimum elong	-4016 May 04 j 21:21	11° Υ 26'38	0°25'56	max. Earth dist.	-4010 Jun 01 j 22:19	8° \mathcal{B} 49'33	19.57073 AU
max. Earth dist.	-4016 May 04 j 00:29	11° Υ 23'31	19.91344 AU				
morning rise	-4016 May 21 j 16:51	12° Υ 26'44		conjunction	-4010 Jun 03 j 04:06	8° \mathcal{B} 54'08	-0°03'49
retrograde	-4016 Aug 22 j 16:53	15° Υ 43'19		minimum elong	-4010 Jun 03 j 04:05	8° \mathcal{B} 54'08	0°03'43
opposition	-4016 Nov 04 j 22:23	13° Υ 41'16	-0°27'01	behind sun begin	-4010 Jun 02 j 21:22	8° \mathcal{B} 53'08	
min. Earth dist.	-4016 Nov 05 j 16:26	13° Υ 39'19	17.88252 AU	behind sun end	-4010 Jun 03 j 10:48	8° \mathcal{B} 55'08	
direct	-4015 Jan 19 j 00:24	11° Υ 37'44		morning rise	-4010 Jun 19 j 20:12	9° \mathcal{B} 55'13	
evening set	-4015 Apr 23 j 00:30	14° Υ 56'04		retrograde	-4010 Sep 19 j 22:54	13° \mathcal{B} 14'46	
				opposition	-4010 Dec 02 j 09:33	11° \mathcal{B} 12'38	-0°01'58
conjunction	-4015 May 09 j 20:52	15° Υ 56'29	-0°22'36	min. Earth dist.	-4010 Dec 03 j 11:28	11° \mathcal{B} 09'48	17.54614 AU
minimum elong	-4015 May 09 j 20:52	15° Υ 56'29	0°22'34	direct	-4009 Feb 16 j 00:54	9° \mathcal{B} 07'15	
max. Earth dist.	-4015 May 08 j 22:55	15° Υ 53'11	19.85196 AU	asc. node	-4009 May 15 j 14:15	12° \mathcal{B} 08'10	
morning rise	-4015 May 26 j 16:03	16° Υ 56'47		evening set	-4009 May 22 j 12:34	12° \mathcal{B} 32'50	
retrograde	-4015 Aug 27 j 13:30	20° Υ 13'56		max. Earth dist.	-4009 Jun 06 j 23:38	13° \mathcal{B} 29'36	19.52191 AU
opposition	-4015 Nov 09 j 14:00	18° Υ 11'53	-0°23'12				
min. Earth dist.	-4015 Nov 10 j 08:40	18° Υ 09'52	17.82187 AU	conjunction	-4009 Jun 08 j 06:51	13° \mathcal{B} 34'25	0°00'16
direct	-4014 Jan 23 j 19:18	16° Υ 08'03		minimum elong	-4009 Jun 08 j 06:51	13° \mathcal{B} 34'25	0°00'22
evening set	-4014 Apr 28 j 00:55	19° Υ 27'43		behind sun begin	-4009 Jun 08 j 00:06	13° \mathcal{B} 33'24	
				behind sun end	-4009 Jun 08 j 13:35	13° \mathcal{B} 35'25	
conjunction	-4014 May 14 j 21:08	20° Υ 28'22	-0°19'05	morning rise	-4009 Jun 24 j 22:14	14° \mathcal{B} 35'36	
minimum elong	-4014 May 14 j 21:09	20° Υ 28'22	0°19'02		-4009 Jul 01 j 18:17	15° \mathcal{B}	
max. Earth dist.	-4014 May 13 j 20:52	20° Υ 24'42	19.79206 AU	retrograde	-4009 Sep 24 j 22:28	17° \mathcal{B} 55'32	
morning rise	-4014 May 31 j 15:54	21° Υ 28'52		opposition	-4009 Dec 07 j 06:00	15° \mathcal{B} 53'19	0°02'30
retrograde	-4014 Sep 01 j 08:45	24° Υ 46'33		min. Earth dist.	-4009 Dec 08 j 07:45	15° \mathcal{B} 50'30	17.49918 AU
opposition	-4014 Nov 14 j 06:46	22° Υ 44'31	-0°19'12		-4009 Dec 28 j 06:19	15° \mathcal{B}	
min. Earth dist.	-4014 Nov 15 j 03:54	22° Υ 42'13	17.76290 AU	direct	-4008 Feb 21 j 01:20	13° \mathcal{B} 47'38	
direct	-4013 Jan 28 j 12:59	20° Υ 40'22			-4008 Apr 14 j 11:53	15° \mathcal{B}	
evening set	-4013 May 03 j 01:51	24° Υ 01'19		evening set	-4008 May 26 j 16:12	17° \mathcal{B} 14'12	
				max. Earth dist.	-4008 Jun 11 j 02:55	18° \mathcal{B} 11'06	19.47684 AU
conjunction	-4013 May 19 j 21:56	25° Υ 02'12	-0°15'25				
minimum elong	-4013 May 19 j 21:56	25° Υ 02'12	0°15'21	conjunction	-4008 Jun 12 j 09:56	18° \mathcal{B} 15'54	0°04'20
behind sun begin	-4013 May 19 j 20:23	25° Υ 01'58		minimum elong	-4008 Jun 12 j 09:56	18° \mathcal{B} 15'54	0°04'29
behind sun end	-4013 May 19 j 23:28	25° Υ 02'26		behind sun begin	-4008 Jun 12 j 03:18	18° \mathcal{B} 14'54	
max. Earth dist.	-4013 May 18 j 20:19	24° Υ 58'19	19.73388 AU	behind sun end	-4008 Jun 12 j 16:34	18° \mathcal{B} 16'54	
morning rise	-4013 Jun 05 j 16:12	26° Υ 02'52		morning rise	-4008 Jun 29 j 00:15	19° \mathcal{B} 17'10	
retrograde	-4013 Sep 06 j 06:37	29° Υ 21'06		retrograde	-4008 Sep 28 j 20:01	22° \mathcal{B} 37'25	
opposition	-4013 Nov 19 j 00:14	27° Υ 19'02	-0°15'03	opposition	-4008 Dec 11 j 03:21	20° \mathcal{B} 35'11	0°06'58
min. Earth dist.	-4013 Nov 19 j 21:46	27° Υ 16'42	17.70553 AU	min. Earth dist.	-4008 Dec 12 j 06:25	20° \mathcal{B} 32'13	17.45628 AU
direct	-4012 Feb 02 j 09:57	25° Υ 14'35		direct	-4007 Feb 24 j 23:45	18° \mathcal{B} 29'14	
evening set	-4012 May 07 j 03:41	28° Υ 36'47		evening set	-4007 May 31 j 20:22	21° \mathcal{B} 56'42	
				max. Earth dist.	-4007 Jun 16 j 04:53	22° \mathcal{B} 53'28	19.43629 AU
conjunction	-4012 May 23 j 23:29	29° Υ 37'53	-0°11'38				
minimum elong	-4012 May 23 j 23:29	29° Υ 37'53	0°11'34	conjunction	-4007 Jun 17 j 13:09	22° \mathcal{B} 58'29	0°08'19
behind sun begin	-4012 May 23 j 18:43	29° Υ 37'10		minimum elong	-4007 Jun 17 j 13:09	22° \mathcal{B} 58'29	0°08'27
behind sun end	-4012 May 24 j 04:15	29° Υ 38'35		behind sun begin	-4007 Jun 17 j 07:15	22° \mathcal{B} 57'35	
max. Earth dist.	-4012 May 22 j 20:09	29° Υ 33'43	19.67730 AU	behind sun end	-4007 Jun 17 j 19:03	22° \mathcal{B} 59'23	
	-4012 May 30 j 00:30	0° \mathcal{B}		morning rise	-4007 Jul 04 j 02:36	23° \mathcal{B} 59'47	
morning rise	-4012 Jun 09 j 17:07	0° \mathcal{B} 38'42		retrograde	-4007 Oct 03 j 19:34	27° \mathcal{B} 20'20	
retrograde	-4012 Sep 10 j 02:51	3° \mathcal{B} 57'24		opposition	-4007 Dec 16 j 01:11	25° \mathcal{B} 18'03	0°11'24
opposition	-4012 Nov 22 j 18:34	1° \mathcal{B} 55'20	-0°10'47	min. Earth dist.	-4007 Dec 17 j 03:50	25° \mathcal{B} 15'08	17.41827 AU
min. Earth dist.	-4012 Nov 23 j 18:25	1° \mathcal{B} 52'44	17.65001 AU	direct	-4006 Mar 02 j 02:10	23° \mathcal{B} 11'52	
	-4011 Jan 18 j 07:41	30° \mathcal{B}		evening set	-4006 Jun 06 j 00:35	26° \mathcal{B} 40'10	
direct	-4011 Feb 06 j 05:14	29° Υ 50'34		max. Earth dist.	-4006 Jun 21 j 09:29	27° \mathcal{B} 37'09	19.40083 AU
	-4011 Feb 25 j 01:37	0° \mathcal{B}					
evening set	-4011 May 12 j 06:09	3° \mathcal{B} 13'58		conjunction	-4006 Jun 22 j 16:37	27° \mathcal{B} 42'00	0°12'15
max. Earth dist.	-4011 May 27 j 20:38	4° \mathcal{B} 10'48	19.62285 AU	minimum elong	-4006 Jun 22 j 16:37	27° \mathcal{B} 42'00	0°12'24
				behind sun begin	-4006 Jun 22 j 12:17	27° \mathcal{B} 41'21	
conjunction	-4011 May 29 j 01:35	4° \mathcal{B} 15'14	-0°07'46	behind sun end	-4006 Jun 22 j 20:58	27° \mathcal{B} 42'40	
minimum elong	-4011 May 29 j 01:34	4° \mathcal{B} 15'14	0°07'40	morning rise	-4006 Jul 09 j 04:47	28° \mathcal{B} 43'19	
behind sun begin	-4011 May 28 j 19:27	4° \mathcal{B} 14'19			-4006 Jul 31 j 07:51	0° \mathcal{B}	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 33

Attention, astronomical year style is used: The year -4006 in astronomical counting style is the year 4007 BCE in historical counting style.

retrograde	-4006 Oct 08 j 17:23	2° Π 04'08		direct	-3999 Apr 04 j 22:30	26° Π 32'15	
opposition	-4006 Dec 20 j 23:56	0° Π 01'51	0°15'46		-3999 Jul 09 j 07:59	0° \mathfrak{C}	
	-4006 Dec 21 j 16:48	30° \mathfrak{R} 8		evening set	-3999 Jul 10 j 06:44	0° \mathfrak{C} 03'30	
min. Earth dist.	-4006 Dec 22 j 03:05	29° \mathfrak{R} 58'53	17.38564 AU	max. Earth dist.	-3999 Jul 25 j 11:53	1° \mathfrak{C} 00'45	19.31649 AU
direct	-4005 Mar 07 j 02:32	27° \mathfrak{R} 55'29					
	-4005 May 17 j 15:45	0° Π		conjunction	-3999 Jul 26 j 14:28	1° \mathfrak{C} 04'57	0°36'24
evening set	-4005 Jun 11 j 04:54	1° Π 24'30		minimum elong	-3999 Jul 26 j 14:28	1° \mathfrak{C} 04'57	0°36'35
max. Earth dist.	-4005 Jun 26 j 11:52	2° Π 21'22	19.37115 AU	morning rise	-3999 Aug 11 j 17:55	2° \mathfrak{C} 05'47	
				retrograde	-3999 Nov 10 j 17:51	5° \mathfrak{C} 27'22	
conjunction	-4005 Jun 27 j 19:47	2° Π 26'22	0°16'08	opposition	-3998 Jan 23 j 06:00	3° \mathfrak{C} 25'44	0°42'05
minimum elong	-4005 Jun 27 j 19:47	2° Π 26'22	0°16'17	min. Earth dist.	-3998 Jan 24 j 05:20	3° \mathfrak{C} 23'13	17.32082 AU
morning rise	-4005 Jul 14 j 06:58	3° Π 27'41		direct	-3998 Apr 10 j 01:31	1° \mathfrak{C} 19'27	
retrograde	-4005 Oct 13 j 17:06	6° Π 48'44		evening set	-3998 Jul 15 j 10:11	4° \mathfrak{C} 50'40	
opposition	-4005 Dec 25 j 23:09	4° Π 46'27	0°20'03				
min. Earth dist.	-4005 Dec 27 j 01:37	4° Π 43'34	17.35906 AU	conjunction	-3998 Jul 31 j 16:38	5° \mathfrak{C} 51'57	0°39'02
direct	-4004 Mar 11 j 06:08	2° Π 39'58		minimum elong	-3998 Jul 31 j 16:38	5° \mathfrak{C} 51'57	0°39'13
evening set	-4004 Jun 15 j 09:18	6° Π 09'38		max. Earth dist.	-3998 Jul 30 j 15:34	5° \mathfrak{C} 47'59	19.32535 AU
				morning rise	-3998 Aug 16 j 18:48	6° \mathfrak{C} 52'36	
conjunction	-4004 Jul 01 j 23:19	7° Π 11'29	0°19'54	retrograde	-3998 Nov 15 j 19:25	10° \mathfrak{C} 14'07	
minimum elong	-4004 Jul 01 j 23:19	7° Π 11'29	0°20'03	opposition	-3997 Jan 28 j 08:31	8° \mathfrak{C} 12'34	0°44'53
max. Earth dist.	-4004 Jun 30 j 17:03	7° Π 06'45	19.34758 AU	min. Earth dist.	-3997 Jan 29 j 05:58	8° \mathfrak{C} 10'15	17.33184 AU
morning rise	-4004 Jul 18 j 09:09	8° Π 12'47		direct	-3997 Apr 15 j 07:04	6° \mathfrak{C} 06'24	
retrograde	-4004 Oct 17 j 15:57	11° Π 34'01		evening set	-3997 Jul 20 j 13:02	9° \mathfrak{C} 37'24	
opposition	-4004 Dec 29 j 22:54	9° Π 31'49	0°24'12				
min. Earth dist.	-4004 Dec 31 j 01:16	9° Π 28'57	17.33852 AU	conjunction	-3997 Aug 05 j 18:11	10° \mathfrak{C} 38'30	0°41'24
direct	-4003 Mar 16 j 08:23	7° Π 25'17		minimum elong	-3997 Aug 05 j 18:10	10° \mathfrak{C} 38'30	0°41'34
evening set	-4003 Jun 20 j 13:57	10° Π 55'29		max. Earth dist.	-3997 Aug 04 j 18:28	10° \mathfrak{C} 34'45	19.33861 AU
max. Earth dist.	-4003 Jul 05 j 19:56	11° Π 52'29	19.33018 AU	morning rise	-3997 Aug 21 j 19:04	11° \mathfrak{C} 39'00	
				retrograde	-3997 Nov 20 j 18:04	15° \mathfrak{C} 00'22	
conjunction	-4003 Jul 07 j 02:40	11° Π 57'19	0°23'34	opposition	-3996 Feb 02 j 11:15	12° \mathfrak{C} 58'53	0°47'21
minimum elong	-4003 Jul 07 j 02:40	11° Π 57'19	0°23'43	min. Earth dist.	-3996 Feb 03 j 08:23	12° \mathfrak{C} 56'37	17.34740 AU
morning rise	-4003 Jul 23 j 11:23	12° Π 58'34		direct	-3996 Apr 19 j 10:21	10° \mathfrak{C} 52'50	
retrograde	-4003 Oct 22 j 15:56	16° Π 19'58		evening set	-3996 Jul 24 j 15:23	14° \mathfrak{C} 23'31	
opposition	-4002 Jan 03 j 23:20	14° Π 17'52	0°28'13				
min. Earth dist.	-4002 Jan 05 j 01:09	14° Π 15'03	17.32421 AU	conjunction	-3996 Aug 09 j 19:10	15° \mathfrak{C} 24'25	0°43'28
direct	-4002 Mar 21 j 11:41	12° Π 11'18		minimum elong	-3996 Aug 09 j 19:10	15° \mathfrak{C} 24'25	0°43'38
evening set	-4002 Jun 25 j 18:16	15° Π 41'58		max. Earth dist.	-3996 Aug 08 j 20:49	15° \mathfrak{C} 20'53	19.35647 AU
max. Earth dist.	-4002 Jul 11 j 01:06	16° Π 39'12	19.31878 AU	morning rise	-3996 Aug 25 j 18:54	16° \mathfrak{C} 24'42	
				retrograde	-3996 Nov 24 j 18:39	19° \mathfrak{C} 45'53	
conjunction	-4002 Jul 12 j 05:56	16° Π 43'44	0°27'04	opposition	-3995 Feb 06 j 13:47	17° \mathfrak{C} 44'27	0°49'29
minimum elong	-4002 Jul 12 j 05:56	16° Π 43'44	0°27'13	min. Earth dist.	-3995 Feb 07 j 08:32	17° \mathfrak{C} 42'26	17.36741 AU
morning rise	-4002 Jul 28 j 13:15	17° Π 44'55		direct	-3995 Apr 24 j 16:23	15° \mathfrak{C} 38'33	
retrograde	-4002 Oct 27 j 16:38	21° Π 06'26		evening set	-3995 Jul 29 j 16:59	19° \mathfrak{C} 08'47	
opposition	-4001 Jan 09 j 00:21	19° Π 04'28	0°32'02				
min. Earth dist.	-4001 Jan 10 j 01:27	19° Π 01'44	17.31559 AU	conjunction	-3995 Aug 14 j 19:33	20° \mathfrak{C} 09'27	0°45'14
direct	-4001 Mar 26 j 15:11	16° Π 57'57		minimum elong	-3995 Aug 14 j 19:33	20° \mathfrak{C} 09'27	0°45'24
evening set	-4001 Jun 30 j 22:41	20° Π 28'56		max. Earth dist.	-3995 Aug 13 j 23:26	20° \mathfrak{C} 06'17	19.37883 AU
max. Earth dist.	-4001 Jul 16 j 04:10	21° Π 26'04	19.31294 AU	morning rise	-3995 Aug 30 j 18:00	21° \mathfrak{C} 09'32	
				retrograde	-3995 Nov 29 j 16:28	24° \mathfrak{C} 30'28	
conjunction	-4001 Jul 17 j 08:59	21° Π 30'37	0°30'24	opposition	-3994 Feb 11 j 16:37	22° \mathfrak{C} 29'05	0°51'16
minimum elong	-4001 Jul 17 j 08:59	21° Π 30'37	0°30'34	min. Earth dist.	-3994 Feb 12 j 10:45	22° \mathfrak{C} 27'08	17.39219 AU
morning rise	-4001 Aug 02 j 15:06	22° Π 31'43		direct	-3994 Apr 29 j 19:37	20° \mathfrak{C} 23'21	
retrograde	-4001 Nov 01 j 16:39	25° Π 53'19		evening set	-3994 Aug 03 j 17:41	23° \mathfrak{C} 53'00	
opposition	-4000 Jan 14 j 01:45	23° Π 51'27	0°35'38				
min. Earth dist.	-4000 Jan 15 j 02:33	23° Π 48'46	17.31251 AU	conjunction	-3994 Aug 19 j 18:52	24° \mathfrak{C} 53'25	0°46'40
direct	-4000 Mar 30 j 17:47	21° Π 44'59		minimum elong	-3994 Aug 19 j 18:52	24° \mathfrak{C} 53'25	0°46'50
evening set	-4000 Jul 05 j 02:47	25° Π 16'11		max. Earth dist.	-3994 Aug 19 j 00:16	24° \mathfrak{C} 50'28	19.40614 AU
max. Earth dist.	-4000 Jul 20 j 08:47	26° Π 13'29	19.31238 AU	morning rise	-3994 Sep 04 j 16:20	25° \mathfrak{C} 53'17	
				retrograde	-3994 Dec 04 j 16:09	29° \mathfrak{C} 13'56	
conjunction	-4000 Jul 21 j 11:55	26° Π 17'46	0°33'31	opposition	-3993 Feb 16 j 19:08	27° \mathfrak{C} 12'34	0°52'41
minimum elong	-4000 Jul 21 j 11:55	26° Π 17'46	0°33'42	min. Earth dist.	-3993 Feb 17 j 10:21	27° \mathfrak{C} 10'57	17.42193 AU
morning rise	-4000 Aug 06 j 16:42	27° Π 18'44		direct	-3993 May 05 j 01:16	25° \mathfrak{C} 07'01	
	-4000 Sep 28 j 16:40	0° \mathfrak{C}		evening set	-3993 Aug 08 j 17:32	28° \mathfrak{C} 35'59	
retrograde	-4000 Nov 05 j 18:29	0° \mathfrak{C} 40'21					
	-4000 Dec 14 j 20:22	30° \mathfrak{R} Π		conjunction	-3993 Aug 24 j 17:37	29° \mathfrak{C} 36'09	0°47'47
opposition	-3999 Jan 18 j 03:40	28° Π 38'37	0°39'00	minimum elong	-3993 Aug 24 j 17:37	29° \mathfrak{C} 36'09	0°47'57
min. Earth dist.	-3999 Jan 19 j 03:14	28° Π 36'04	17.31428 AU	max. Earth dist.	-3993 Aug 24 j 02:05	29° \mathfrak{C} 33'42	19.43843 AU

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 34

Attention, astronomical year style is used: The year -3993 in astronomical counting style is the year 3994 BCE in historical counting style.

	-3993 Aug 31 j 00:38	0°♈			-3987 Nov 04 j 13:02	0°♏	
morning rise	-3993 Sep 09 j 13:52	0°♈35'47	retrograde		-3986 Jan 05 j 19:05	1°♏39'29	
retrograde	-3993 Dec 09 j 13:00	3°♈56'06			-3986 Mar 13 j 18:07	30°♏	
opposition	-3992 Feb 21 j 21:29	1°♈54'48 0°53'45	opposition		-3986 Mar 22 j 05:17	29°♈38'58 0°52'37	
min. Earth dist.	-3992 Feb 22 j 11:39	1°♈53'18 17.45685 AU	min. Earth dist.		-3986 Mar 22 j 05:07	29°♈38'59 17.76659 AU	
	-3992 Apr 18 j 20:56	30°♏	direct		-3986 Jun 07 j 11:08	27°♈35'56	
direct	-3992 May 09 j 04:07	29°♏49'29			-3986 Aug 24 j 03:18	0°♏	
	-3992 May 29 j 05:18	0°♈	evening set		-3986 Sep 09 j 16:19	0°♏57'58	
evening set	-3992 Aug 12 j 16:41	3°♈17'41					
			conjunction		-3986 Sep 25 j 09:09	1°♏56'07 0°46'43	
conjunction	-3992 Aug 28 j 15:26	4°♈17'34 0°48'35	minimum elong		-3986 Sep 25 j 09:10	1°♏56'07 0°46'48	
minimum elong	-3992 Aug 28 j 15:26	4°♈17'34 0°48'44	max. Earth dist.		-3986 Sep 25 j 09:46	1°♏56'13 19.79779 AU	
max. Earth dist.	-3992 Aug 28 j 01:20	4°♈15'21 19.47608 AU	morning rise		-3986 Oct 11 j 00:09	2°♏53'59	
morning rise	-3992 Sep 13 j 10:50	5°♈16'58	retrograde		-3985 Jan 10 j 15:23	6°♏11'22	
retrograde	-3992 Dec 13 j 11:32	8°♈36'55	opposition		-3985 Mar 27 j 05:05	4°♏10'58 0°51'14	
opposition	-3991 Feb 25 j 23:35	6°♈35'42 0°54'27	min. Earth dist.		-3985 Mar 27 j 02:44	4°♏11'13 17.82944 AU	
min. Earth dist.	-3991 Feb 26 j 10:31	6°♈34'32 17.49712 AU	direct		-3985 Jun 12 j 10:21	2°♏08'21	
direct	-3991 May 14 j 08:09	4°♈30'39	evening set		-3985 Sep 14 j 09:09	5°♏29'10	
evening set	-3991 Aug 17 j 14:45	7°♈57'59					
			conjunction		-3985 Sep 30 j 01:25	6°♏27'01 0°45'21	
conjunction	-3991 Sep 02 j 12:29	8°♈57'36 0°49'04	minimum elong		-3985 Sep 30 j 01:26	6°♏27'01 0°45'25	
minimum elong	-3991 Sep 02 j 12:29	8°♈57'36 0°49'13	max. Earth dist.		-3985 Sep 30 j 05:04	6°♏27'35 19.86130 AU	
max. Earth dist.	-3991 Sep 02 j 01:57	8°♈55'57 19.51899 AU	morning rise		-3985 Oct 15 j 15:50	7°♏24'37	
morning rise	-3991 Sep 18 j 06:45	9°♈56'44	retrograde		-3984 Jan 15 j 09:32	10°♏41'28	
retrograde	-3991 Dec 18 j 08:02	13°♈16'20	opposition		-3984 Mar 31 j 04:07	8°♏41'12 0°49'33	
opposition	-3990 Mar 03 j 01:36	11°♈15'13 0°54'48	min. Earth dist.		-3984 Mar 30 j 23:41	8°♏41'40 17.89337 AU	
min. Earth dist.	-3990 Mar 03 j 10:56	11°♈14'14 17.54258 AU	direct		-3984 Jun 16 j 09:15	6°♏38'59	
direct	-3990 May 19 j 09:48	9°♈10'31	evening set		-3984 Sep 18 j 01:16	9°♏58'33	
evening set	-3990 Aug 22 j 12:08	12°♈36'55					
			conjunction		-3984 Oct 03 j 16:44	10°♏56'05 0°43'42	
conjunction	-3990 Sep 07 j 08:37	13°♈36'15 0°49'13	minimum elong		-3984 Oct 03 j 16:44	10°♏56'06 0°43'46	
minimum elong	-3990 Sep 07 j 08:37	13°♈36'15 0°49'21	max. Earth dist.		-3984 Oct 03 j 21:31	10°♏56'50 19.92565 AU	
max. Earth dist.	-3990 Sep 06 j 23:34	13°♈34'50 19.56709 AU	morning rise		-3984 Oct 19 j 06:54	11°♏53'26	
morning rise	-3990 Sep 23 j 02:13	14°♈35'08	retrograde		-3983 Jan 19 j 03:45	15°♏09'45	
	-3990 Sep 29 j 22:22	15°♈	opposition		-3983 Apr 05 j 02:45	13°♏09'34 0°47'33	
retrograde	-3990 Dec 23 j 06:00	17°♈54'20	min. Earth dist.		-3983 Apr 04 j 20:36	13°♏10'12 17.95806 AU	
opposition	-3989 Mar 08 j 03:02	15°♈53'21 0°54'46	direct		-3983 Jun 21 j 06:57	11°♏07'44	
min. Earth dist.	-3989 Mar 08 j 09:15	15°♈52'42 17.59306 AU	evening set		-3983 Sep 22 j 16:09	14°♏25'59	
	-3989 Mar 29 j 22:59	15°♏					
direct	-3989 May 24 j 11:30	13°♈49'01	conjunction		-3983 Oct 08 j 07:13	15°♏23'14 0°41'49	
	-3989 Jul 16 j 11:13	15°♈	minimum elong		-3983 Oct 08 j 07:13	15°♏23'14 0°41'52	
evening set	-3989 Aug 27 j 08:23	17°♈14'26	max. Earth dist.		-3983 Oct 08 j 14:49	15°♏24'24 19.99048 AU	
			morning rise		-3983 Oct 23 j 21:00	16°♏20'20	
conjunction	-3989 Sep 12 j 04:03	18°♈13'29 0°49'03	retrograde		-3982 Jan 23 j 20:46	19°♏36'05	
minimum elong	-3989 Sep 12 j 04:03	18°♈13'29 0°49'11	opposition		-3982 Apr 10 j 00:39	17°♏35'57 0°45'18	
max. Earth dist.	-3989 Sep 11 j 22:37	18°♈12'38 19.61978 AU	min. Earth dist.		-3982 Apr 09 j 16:04	17°♏36'50 18.02286 AU	
morning rise	-3989 Sep 27 j 20:44	19°♈12'07	direct		-3982 Jun 26 j 04:56	15°♏34'30	
retrograde	-3989 Dec 28 j 02:05	22°♈30'53	evening set		-3982 Sep 27 j 06:21	18°♏51'24	
opposition	-3988 Mar 12 j 04:13	20°♈30'04 0°54'24					
min. Earth dist.	-3988 Mar 12 j 08:42	20°♈29'36 17.64765 AU	conjunction		-3982 Oct 12 j 20:49	19°♏48'22 0°39'41	
direct	-3988 May 28 j 11:37	18°♈26'09	minimum elong		-3982 Oct 12 j 20:49	19°♏48'22 0°39'43	
evening set	-3988 Aug 31 j 03:59	21°♈50'30	max. Earth dist.		-3982 Oct 13 j 05:43	19°♏49'44 20.05534 AU	
			morning rise		-3982 Oct 28 j 10:35	20°♏45'14	
conjunction	-3988 Sep 15 j 22:31	22°♈49'15 0°48'35	retrograde		-3981 Jan 28 j 12:28	24°♏00'23	
minimum elong	-3988 Sep 15 j 22:31	22°♈49'15 0°48'42	opposition		-3981 Apr 14 j 21:40	22°♏00'17 0°42'47	
max. Earth dist.	-3988 Sep 15 j 18:25	22°♈48'37 19.67627 AU	min. Earth dist.		-3981 Apr 14 j 11:46	22°♏01'17 18.08782 AU	
morning rise	-3988 Oct 01 j 14:39	23°♈47'38	direct		-3981 Jul 01 j 00:26	19°♏59'10	
retrograde	-3988 Dec 31 j 23:32	27°♈05'58	evening set		-3981 Oct 01 j 19:22	23°♏14'43	
opposition	-3987 Mar 17 j 04:54	25°♈05'18 0°53'41					
min. Earth dist.	-3987 Mar 17 j 06:42	25°♈05'07 17.70580 AU	conjunction		-3981 Oct 17 j 09:36	24°♏11'24 0°37'20	
direct	-3987 Jun 02 j 11:53	23°♈01'48	minimum elong		-3981 Oct 17 j 09:36	24°♏11'24 0°37'22	
evening set	-3987 Sep 04 j 22:34	26°♈25'03	max. Earth dist.		-3981 Oct 17 j 21:06	24°♏13'10 20.12031 AU	
			morning rise		-3981 Nov 01 j 23:13	25°♏08'02	
conjunction	-3987 Sep 20 j 16:22	27°♈23'30 0°47'48	retrograde		-3980 Feb 02 j 04:23	28°♏22'35	
minimum elong	-3987 Sep 20 j 16:22	27°♈23'30 0°47'53	opposition		-3980 Apr 18 j 17:51	26°♏22'30 0°40'03	
max. Earth dist.	-3987 Sep 20 j 15:43	27°♈23'24 19.73589 AU	min. Earth dist.		-3980 Apr 18 j 05:19	26°♏23'47 18.15270 AU	
morning rise	-3987 Oct 06 j 07:43	28°♈21'37	direct		-3980 Jul 04 j 20:38	24°♏21'43	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 35

Attention, astronomical year style is used: The year -3980 in astronomical counting style is the year 3981 BCE in historical counting style.

evening set	-3980 Oct 05 j 07:33	27° <u>0</u> 35'55		max. Earth dist.	-3974 Nov 16 j 06:06	24° <u>0</u> 02'44	20.57511 AU
				morning rise	-3974 Nov 30 j 21:01	24° <u>0</u> 54'27	
conjunction	-3980 Oct 20 j 21:21	28° <u>0</u> 32'20	0°34'47	retrograde	-3973 Mar 03 j 23:35	28° <u>0</u> 05'21	
minimum elong	-3980 Oct 20 j 21:21	28° <u>0</u> 32'20	0°34'47	opposition	-3973 May 20 j 17:24	26° <u>0</u> 05'47	0°16'20
max. Earth dist.	-3980 Oct 21 j 10:28	28° <u>0</u> 34'19	20.18523 AU	min. Earth dist.	-3973 May 19 j 17:33	26° <u>0</u> 08'11	18.60604 AU
morning rise	-3980 Nov 05 j 11:02	29° <u>0</u> 28'44		direct	-3973 Aug 05 j 04:25	24° <u>0</u> 07'39	
	-3980 Nov 14 j 09:33	0° <u>0</u>		evening set	-3973 Nov 03 j 23:25	27° <u>0</u> 13'27	
retrograde	-3979 Feb 05 j 18:07	2° <u>0</u> 42'42					
opposition	-3979 Apr 23 j 13:22	0° <u>0</u> 42'37	0°37'06	conjunction	-3973 Nov 19 j 13:22	28° <u>0</u> 08'21	0°13'06
min. Earth dist.	-3979 Apr 22 j 23:36	0° <u>0</u> 44'02	18.21786 AU	minimum elong	-3973 Nov 19 j 13:22	28° <u>0</u> 08'21	0°13'01
	-3979 May 11 j 08:31	30° <u>0</u> 42'10		behind sun begin	-3973 Nov 19 j 09:18	28° <u>0</u> 07'46	
direct	-3979 Jul 09 j 13:41	28° <u>0</u> 42'10		behind sun end	-3973 Nov 19 j 17:25	28° <u>0</u> 08'56	
	-3979 Sep 03 j 11:34	0° <u>0</u>		max. Earth dist.	-3973 Nov 20 j 14:50	28° <u>0</u> 12'07	20.63606 AU
evening set	-3979 Oct 09 j 18:47	1° <u>0</u> 55'02		morning rise	-3973 Dec 05 j 05:05	29° <u>0</u> 03'32	
					-3973 Dec 22 j 03:58	0° <u>0</u>	
conjunction	-3979 Oct 25 j 08:27	2° <u>0</u> 51'12	0°32'04	retrograde	-3972 Mar 07 j 12:25	2° <u>0</u> 14'01	
minimum elong	-3979 Oct 25 j 08:27	2° <u>0</u> 51'12	0°32'04	min. Earth dist.	-3972 May 23 j 05:36	0° <u>0</u> 17'10	18.66559 AU
max. Earth dist.	-3979 Oct 26 j 00:06	2° <u>0</u> 53'34	20.25057 AU	opposition	-3972 May 24 j 07:31	0° <u>0</u> 14'34	0°12'31
morning rise	-3979 Nov 09 j 22:07	3° <u>0</u> 47'23			-3972 May 30 j 09:00	30° <u>0</u> 47'23	
retrograde	-3978 Feb 10 j 09:06	7° <u>0</u> 00'47		direct	-3972 Aug 08 j 16:32	28° <u>0</u> 16'47	
opposition	-3978 Apr 28 j 07:55	5° <u>0</u> 00'43	0°33'59		-3972 Oct 12 j 22:52	0° <u>0</u>	
min. Earth dist.	-3978 Apr 27 j 15:14	5° <u>0</u> 02'25	18.28333 AU	evening set	-3972 Nov 07 j 06:15	1° <u>0</u> 21'35	
direct	-3978 Jul 14 j 07:47	3° <u>0</u> 00'37					
evening set	-3978 Oct 14 j 05:13	6° <u>0</u> 12'11		conjunction	-3972 Nov 22 j 20:25	2° <u>0</u> 16'19	0°09'39
				minimum elong	-3972 Nov 22 j 20:26	2° <u>0</u> 16'19	0°09'34
conjunction	-3978 Oct 29 j 18:41	7° <u>0</u> 08'07	0°29'12	behind sun begin	-3972 Nov 22 j 14:58	2° <u>0</u> 15'33	
minimum elong	-3978 Oct 29 j 18:41	7° <u>0</u> 08'07	0°29'11	behind sun end	-3972 Nov 23 j 01:53	2° <u>0</u> 17'06	
max. Earth dist.	-3978 Oct 30 j 12:03	7° <u>0</u> 10'43	20.31614 AU	max. Earth dist.	-3972 Nov 23 j 23:00	2° <u>0</u> 20'14	20.69396 AU
morning rise	-3978 Nov 14 j 08:36	8° <u>0</u> 04'06		morning rise	-3972 Dec 08 j 12:42	3° <u>0</u> 11'23	
retrograde	-3977 Feb 14 j 21:36	11° <u>0</u> 16'56		retrograde	-3971 Mar 11 j 22:26	6° <u>0</u> 21'28	
min. Earth dist.	-3977 May 02 j 08:05	9° <u>0</u> 18'44	18.34911 AU	opposition	-3971 May 28 j 21:11	4° <u>0</u> 22'07	0°08'40
opposition	-3977 May 03 j 01:48	9° <u>0</u> 16'56	0°30'42	min. Earth dist.	-3971 May 27 j 19:30	4° <u>0</u> 24'41	18.72189 AU
direct	-3977 Jul 18 j 22:32	7° <u>0</u> 17'12		direct	-3971 Aug 13 j 02:43	2° <u>0</u> 24'40	
evening set	-3977 Oct 18 j 14:54	10° <u>0</u> 27'32		evening set	-3971 Nov 11 j 12:45	5° <u>0</u> 28'29	
conjunction	-3977 Nov 03 j 04:22	11° <u>0</u> 23'13	0°26'11	conjunction	-3971 Nov 27 j 03:21	6° <u>0</u> 23'06	0°06'10
minimum elong	-3977 Nov 03 j 04:22	11° <u>0</u> 23'13	0°26'09	minimum elong	-3971 Nov 27 j 03:20	6° <u>0</u> 23'06	0°06'05
max. Earth dist.	-3977 Nov 03 j 23:53	11° <u>0</u> 26'09	20.38193 AU	behind sun begin	-3971 Nov 26 j 21:07	6° <u>0</u> 22'12	
morning rise	-3977 Nov 18 j 18:26	12° <u>0</u> 19'00		behind sun end	-3971 Nov 27 j 09:33	6° <u>0</u> 23'59	
retrograde	-3976 Feb 19 j 11:41	15° <u>0</u> 31'19		max. Earth dist.	-3971 Nov 28 j 06:32	6° <u>0</u> 27'05	20.74843 AU
opposition	-3976 May 06 j 18:37	13° <u>0</u> 31'25	0°27'17	morning rise	-3971 Dec 12 j 20:12	7° <u>0</u> 18'02	
min. Earth dist.	-3976 May 05 j 22:06	13° <u>0</u> 33'29	18.41475 AU	retrograde	-3970 Mar 16 j 10:57	10° <u>0</u> 27'44	
direct	-3976 Jul 22 j 14:20	11° <u>0</u> 32'04		min. Earth dist.	-3970 Jun 01 j 06:36	8° <u>0</u> 31'11	18.77438 AU
evening set	-3976 Oct 21 j 23:57	14° <u>0</u> 41'12		opposition	-3970 Jun 02 j 09:55	8° <u>0</u> 28'26	0°04'47
				direct	-3970 Aug 17 j 13:44	6° <u>0</u> 31'16	
conjunction	-3976 Nov 06 j 13:21	15° <u>0</u> 36'40	0°23'03	evening set	-3970 Nov 15 j 18:54	9° <u>0</u> 34'11	
minimum elong	-3976 Nov 06 j 13:21	15° <u>0</u> 36'40	0°23'01				
max. Earth dist.	-3976 Nov 07 j 10:31	15° <u>0</u> 39'50	20.44734 AU	conjunction	-3970 Dec 01 j 09:53	10° <u>0</u> 28'40	0°02'40
morning rise	-3976 Nov 22 j 03:47	16° <u>0</u> 32'17		minimum elong	-3970 Dec 01 j 09:53	10° <u>0</u> 28'40	0°02'34
retrograde	-3975 Feb 22 j 23:17	19° <u>0</u> 44'07		behind sun begin	-3970 Dec 01 j 03:21	10° <u>0</u> 27'44	
opposition	-3975 May 11 j 11:03	17° <u>0</u> 44'18	0°23'44	behind sun end	-3970 Dec 01 j 16:25	10° <u>0</u> 29'35	
min. Earth dist.	-3975 May 10 j 13:50	17° <u>0</u> 46'27	18.47991 AU	max. Earth dist.	-3970 Dec 02 j 13:47	10° <u>0</u> 32'44	20.79868 AU
direct	-3975 Jul 27 j 03:19	15° <u>0</u> 45'22		morning rise	-3970 Dec 17 j 03:26	11° <u>0</u> 23'31	
evening set	-3975 Oct 26 j 08:11	18° <u>0</u> 53'20		retrograde	-3969 Mar 20 j 19:48	14° <u>0</u> 32'49	
				opposition	-3969 Jun 06 j 22:10	12° <u>0</u> 33'34	0°00'54
conjunction	-3975 Nov 10 j 21:45	19° <u>0</u> 48'36	0°19'49	min. Earth dist.	-3969 Jun 05 j 19:29	12° <u>0</u> 36'14	18.82248 AU
minimum elong	-3975 Nov 10 j 21:46	19° <u>0</u> 48'36	0°19'46	direct	-3969 Aug 21 j 22:35	10° <u>0</u> 36'38	
max. Earth dist.	-3975 Nov 11 j 20:42	19° <u>0</u> 52'01	20.51205 AU	desc. node	-3969 Aug 31 j 10:08	10° <u>0</u> 38'54	
morning rise	-3975 Nov 26 j 12:32	20° <u>0</u> 44'03		evening set	-3969 Nov 20 j 00:35	13° <u>0</u> 38'40	
retrograde	-3974 Feb 27 j 12:47	23° <u>0</u> 55'25					
min. Earth dist.	-3974 May 15 j 02:52	21° <u>0</u> 58'07	18.54390 AU	conjunction	-3969 Dec 05 j 16:04	14° <u>0</u> 33'01	-0°00'56
opposition	-3974 May 16 j 02:36	21° <u>0</u> 55'44	0°20'04	minimum elong	-3969 Dec 05 j 16:04	14° <u>0</u> 33'02	0°01'03
direct	-3974 Jul 31 j 17:03	19° <u>0</u> 57'12		behind sun begin	-3969 Dec 05 j 09:32	14° <u>0</u> 32'06	
evening set	-3974 Oct 30 j 16:05	23° <u>0</u> 04'03		behind sun end	-3969 Dec 05 j 22:36	14° <u>0</u> 33'57	
				max. Earth dist.	-3969 Dec 06 j 20:12	14° <u>0</u> 37'08	20.84459 AU
conjunction	-3974 Nov 15 j 05:46	23° <u>0</u> 59'08	0°16'29		-3969 Dec 13 j 09:01	15° <u>0</u>	
minimum elong	-3974 Nov 15 j 05:46	23° <u>0</u> 59'08	0°16'26	morning rise	-3969 Dec 21 j 10:18	15° <u>0</u> 27'48	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 36

Attention, astronomical year style is used: The year -3968 in astronomical counting style is the year 3969 BCE in historical counting style.

retrograde	-3968 Mar 24 j 07:19	18° $\overline{\text{M}}$ 36'43		evening set	-3963 Dec 13 j 04:41	7° \nearrow 42'46	
min. Earth dist.	-3968 Jun 09 j 05:32	16° $\overline{\text{M}}$ 40'16	18.86614 AU				
opposition	-3968 Jun 10 j 09:33	16° $\overline{\text{M}}$ 37'27	-0°02'58	conjunction	-3963 Dec 29 j 00:11	8° \nearrow 36'49	-0°20'55
	-3968 Jul 28 j 08:25	15° $\overline{\text{R}}$ $\overline{\text{M}}$		minimum elong	-3963 Dec 29 j 00:11	8° \nearrow 36'49	0°21'04
direct	-3968 Aug 25 j 09:01	14° $\overline{\text{M}}$ 40'42		max. Earth dist.	-3963 Dec 30 j 06:11	8° \nearrow 41'07	21.03813 AU
	-3968 Sep 21 j 19:41	15° $\overline{\text{M}}$		morning rise	-3962 Jan 13 j 23:28	9° \nearrow 31'24	
evening set	-3968 Nov 23 j 05:56	17° $\overline{\text{M}}$ 41'55		retrograde	-3962 Apr 18 j 10:59	12° \nearrow 38'42	
				opposition	-3962 Jul 05 j 17:23	10° \nearrow 39'15	-0°24'50
conjunction	-3968 Dec 08 j 21:56	18° $\overline{\text{M}}$ 36'11	-0°04'27	min. Earth dist.	-3962 Jul 04 j 12:40	10° \nearrow 42'07	19.04911 AU
minimum elong	-3968 Dec 08 j 21:57	18° $\overline{\text{M}}$ 36'11	0°04'35	direct	-3962 Sep 19 j 04:14	8° \nearrow 43'10	
behind sun begin	-3968 Dec 08 j 15:31	18° $\overline{\text{M}}$ 35'17		evening set	-3962 Dec 17 j 09:02	11° \nearrow 40'56	
behind sun end	-3968 Dec 09 j 04:22	18° $\overline{\text{M}}$ 37'06					
max. Earth dist.	-3968 Dec 10 j 02:46	18° $\overline{\text{M}}$ 40'22	20.88603 AU	conjunction	-3961 Jan 02 j 05:21	12° \nearrow 35'00	-0°23'57
morning rise	-3968 Dec 24 j 16:56	19° $\overline{\text{M}}$ 30'53		minimum elong	-3961 Jan 02 j 05:21	12° \nearrow 35'00	0°24'06
retrograde	-3967 Mar 28 j 15:24	22° $\overline{\text{M}}$ 39'28		max. Earth dist.	-3961 Jan 03 j 11:34	12° \nearrow 39'20	21.05817 AU
opposition	-3967 Jun 14 j 20:29	20° $\overline{\text{M}}$ 40'09	-0°06'48	morning rise	-3961 Jan 18 j 05:34	13° \nearrow 29'37	
min. Earth dist.	-3967 Jun 13 j 17:09	20° $\overline{\text{M}}$ 42'53	18.90557 AU	retrograde	-3961 Apr 22 j 18:15	16° \nearrow 36'47	
direct	-3967 Aug 29 j 16:23	18° $\overline{\text{M}}$ 43'33		min. Earth dist.	-3961 Jul 08 j 21:29	14° \nearrow 40'07	19.06725 AU
evening set	-3967 Nov 27 j 10:49	21° $\overline{\text{M}}$ 43'59		opposition	-3961 Jul 10 j 01:05	14° \nearrow 37'21	-0°28'07
				direct	-3961 Sep 23 j 09:25	12° \nearrow 41'22	
conjunction	-3967 Dec 13 j 03:29	22° $\overline{\text{M}}$ 38'10	-0°07'52	evening set	-3961 Dec 21 j 13:23	15° \nearrow 38'51	
minimum elong	-3967 Dec 13 j 03:28	22° $\overline{\text{M}}$ 38'10	0°08'00				
behind sun begin	-3967 Dec 12 j 21:36	22° $\overline{\text{M}}$ 37'20		conjunction	-3960 Jan 06 j 10:32	16° \nearrow 32'56	-0°26'52
behind sun end	-3967 Dec 13 j 09:21	22° $\overline{\text{M}}$ 39'00		minimum elong	-3960 Jan 06 j 10:32	16° \nearrow 32'56	0°27'03
max. Earth dist.	-3967 Dec 14 j 08:31	22° $\overline{\text{M}}$ 42'23	20.92352 AU	max. Earth dist.	-3960 Jan 07 j 16:05	16° \nearrow 37'10	21.07441 AU
morning rise	-3967 Dec 28 j 23:17	23° $\overline{\text{M}}$ 32'49		morning rise	-3960 Jan 22 j 11:43	17° \nearrow 27'35	
retrograde	-3966 Apr 02 j 01:34	26° $\overline{\text{M}}$ 41'03		retrograde	-3960 Apr 26 j 03:25	20° \nearrow 34'42	
min. Earth dist.	-3966 Jun 18 j 02:04	24° $\overline{\text{M}}$ 44'33	18.94115 AU	min. Earth dist.	-3960 Jul 12 j 04:30	18° \nearrow 38'05	19.08138 AU
opposition	-3966 Jun 19 j 06:35	24° $\overline{\text{M}}$ 41'42	-0°10'34	opposition	-3960 Jul 13 j 08:25	18° \nearrow 35'17	-0°31'17
direct	-3966 Sep 03 j 02:03	22° $\overline{\text{M}}$ 45'13		direct	-3960 Sep 26 j 14:50	16° \nearrow 39'23	
evening set	-3966 Dec 01 j 15:36	25° $\overline{\text{M}}$ 44'57		evening set	-3960 Dec 24 j 18:01	19° \nearrow 36'40	
conjunction	-3966 Dec 17 j 08:53	26° $\overline{\text{M}}$ 39'05	-0°11'14	conjunction	-3959 Jan 09 j 16:03	20° \nearrow 30'48	-0°29'40
minimum elong	-3966 Dec 17 j 08:52	26° $\overline{\text{M}}$ 39'05	0°11'23	minimum elong	-3959 Jan 09 j 16:02	20° \nearrow 30'48	0°29'49
behind sun begin	-3966 Dec 17 j 04:03	26° $\overline{\text{M}}$ 38'24		max. Earth dist.	-3959 Jan 10 j 21:29	20° \nearrow 35'00	21.08626 AU
behind sun end	-3966 Dec 17 j 13:42	26° $\overline{\text{M}}$ 39'45		morning rise	-3959 Jan 25 j 18:10	21° \nearrow 25'31	
max. Earth dist.	-3966 Dec 18 j 14:34	26° $\overline{\text{M}}$ 43'22	20.95715 AU	retrograde	-3959 Apr 30 j 10:41	24° \nearrow 32'35	
morning rise	-3965 Jan 02 j 05:30	27° $\overline{\text{M}}$ 33'41		opposition	-3959 Jul 17 j 15:32	22° \nearrow 33'12	-0°34'18
	-3965 Feb 23 j 14:51	0° \nearrow		min. Earth dist.	-3959 Jul 16 j 13:08	22° \nearrow 35'51	19.09094 AU
retrograde	-3965 Apr 06 j 09:16	0° \nearrow 41'37		direct	-3959 Sep 30 j 19:29	20° \nearrow 37'21	
	-3965 May 19 j 07:59	30° $\overline{\text{R}}$ $\overline{\text{M}}$		evening set	-3959 Dec 28 j 22:53	23° \nearrow 34'32	
opposition	-3965 Jun 23 j 16:01	28° $\overline{\text{M}}$ 42'13	-0°14'16				
min. Earth dist.	-3965 Jun 22 j 12:16	28° $\overline{\text{M}}$ 45'00	18.97311 AU	conjunction	-3958 Jan 13 j 21:51	24° \nearrow 28'43	-0°32'19
direct	-3965 Sep 07 j 08:18	26° $\overline{\text{M}}$ 45'50		minimum elong	-3958 Jan 13 j 21:50	24° \nearrow 28'43	0°32'30
evening set	-3965 Dec 05 j 20:07	29° $\overline{\text{M}}$ 44'57		max. Earth dist.	-3958 Jan 15 j 02:04	24° \nearrow 32'45	21.09346 AU
	-3965 Dec 10 j 06:24	0° \nearrow		morning rise	-3958 Jan 30 j 01:00	25° \nearrow 23'30	
conjunction	-3965 Dec 21 j 14:04	0° \nearrow 39'02	-0°14'33	retrograde	-3958 May 04 j 20:30	28° \nearrow 30'35	
minimum elong	-3965 Dec 21 j 14:04	0° \nearrow 39'02	0°14'41	opposition	-3958 Jul 21 j 22:22	26° \nearrow 31'12	-0°37'09
behind sun begin	-3965 Dec 21 j 11:14	0° \nearrow 38'38		min. Earth dist.	-3958 Jul 20 j 20:16	26° \nearrow 33'50	19.09551 AU
behind sun end	-3965 Dec 21 j 16:55	0° \nearrow 39'26		direct	-3958 Oct 05 j 00:48	24° \nearrow 35'22	
max. Earth dist.	-3965 Dec 22 j 19:47	0° \nearrow 43'19	20.98747 AU	evening set	-3957 Jan 02 j 04:08	27° \nearrow 32'30	
morning rise	-3964 Jan 06 j 11:33	1° \nearrow 33'37		conjunction	-3957 Jan 18 j 04:01	28° \nearrow 26'47	-0°34'49
retrograde	-3964 Apr 09 j 18:29	4° \nearrow 41'17		minimum elong	-3957 Jan 18 j 04:01	28° \nearrow 26'47	0°34'59
min. Earth dist.	-3964 Jun 25 j 20:06	2° \nearrow 44'45	19.00180 AU	max. Earth dist.	-3957 Jan 19 j 07:35	28° \nearrow 30'42	21.09517 AU
opposition	-3964 Jun 27 j 00:56	2° \nearrow 41'52	-0°17'54	morning rise	-3957 Feb 03 j 08:05	29° \nearrow 21'38	
direct	-3964 Sep 10 j 16:17	0° \nearrow 45'35			-3957 Feb 15 j 03:14	0° $\overline{\text{Z}}$	
evening set	-3964 Dec 09 j 00:21	3° \nearrow 44'10		retrograde	-3957 May 09 j 03:26	2° $\overline{\text{Z}}$ 28'45	
				min. Earth dist.	-3957 Jul 25 j 04:48	0° $\overline{\text{Z}}$ 31'48	19.09440 AU
conjunction	-3964 Dec 24 j 19:02	4° \nearrow 38'13	-0°17'46	opposition	-3957 Jul 26 j 04:59	0° $\overline{\text{Z}}$ 29'22	-0°39'49
minimum elong	-3964 Dec 24 j 19:02	4° \nearrow 38'13	0°17'55		-3957 Aug 07 j 11:45	30° $\overline{\text{R}}$ \nearrow	
max. Earth dist.	-3964 Dec 26 j 01:21	4° \nearrow 42'35	21.01441 AU	direct	-3957 Oct 09 j 05:04	28° \nearrow 33'30	
morning rise	-3963 Jan 09 j 17:23	5° \nearrow 32'48			-3957 Dec 07 j 18:54	0° $\overline{\text{Z}}$	
retrograde	-3963 Apr 14 j 02:00	8° \nearrow 40'16		evening set	-3956 Jan 06 j 09:36	1° $\overline{\text{Z}}$ 30'40	
min. Earth dist.	-3963 Jun 30 j 05:29	6° \nearrow 43'37	19.02713 AU				
opposition	-3963 Jul 01 j 09:30	6° \nearrow 40'49	-0°21'25	conjunction	-3956 Jan 22 j 10:28	2° $\overline{\text{Z}}$ 25'02	-0°37'10
direct	-3963 Sep 14 j 22:01	4° \nearrow 44'38		minimum elong	-3956 Jan 22 j 10:27	2° $\overline{\text{Z}}$ 25'02	0°37'20

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 37

Attention, astronomical year style is used: The year -3956 in astronomical counting style is the year 3957 BCE in historical counting style.

max. Earth dist.	-3956 Jan 23 j 12:19	2° $\overline{3}$ 28'43	21.09129 AU	direct	-3950 Nov 05 j 16:40	26° $\overline{3}$ 27'41	
morning rise	-3956 Feb 07 j 15:34	3° $\overline{3}$ 19'59		evening set	-3949 Feb 03 j 09:38	29° $\overline{3}$ 26'56	
retrograde	-3956 May 12 j 13:25	6° $\overline{3}$ 27'10			-3949 Feb 13 j 04:30	0° \approx	
min. Earth dist.	-3956 Jul 28 j 11:58	4° $\overline{3}$ 30'06	19.08757 AU				
opposition	-3956 Jul 29 j 11:31	4° $\overline{3}$ 27'44	-0°42'18	conjunction	-3949 Feb 19 j 17:44	0° \approx 22'25	-0°47'58
direct	-3956 Oct 12 j 10:38	2° $\overline{3}$ 31'47		minimum elong	-3949 Feb 19 j 17:44	0° \approx 22'25	0°48'07
evening set	-3955 Jan 09 j 15:16	5° $\overline{3}$ 29'01		max. Earth dist.	-3949 Feb 20 j 09:54	0° \approx 24'43	20.92220 AU
				morning rise	-3949 Mar 08 j 05:36	1° \approx 18'25	
conjunction	-3955 Jan 25 j 17:09	6° $\overline{3}$ 23'30	-0°39'19	retrograde	-3949 Jun 11 j 00:53	4° \approx 26'49	
minimum elong	-3955 Jan 25 j 17:09	6° $\overline{3}$ 23'30	0°39'29	opposition	-3949 Aug 27 j 06:14	2° \approx 26'36	-0°53'27
max. Earth dist.	-3955 Jan 26 j 18:07	6° $\overline{3}$ 27'03	21.08146 AU	min. Earth dist.	-3949 Aug 26 j 17:00	2° \approx 27'57	18.90333 AU
morning rise	-3955 Feb 10 j 23:14	7° $\overline{3}$ 18'35		direct	-3949 Nov 09 j 21:20	0° \approx 29'11	
retrograde	-3955 May 16 j 20:12	10° $\overline{3}$ 25'50		evening set	-3948 Feb 07 j 18:32	3° \approx 29'02	
opposition	-3955 Aug 02 j 17:57	8° $\overline{3}$ 26'19	-0°44'35				
min. Earth dist.	-3955 Aug 01 j 20:25	8° $\overline{3}$ 28'30	19.07482 AU	conjunction	-3948 Feb 24 j 03:36	4° \approx 24'44	-0°48'38
direct	-3955 Oct 16 j 15:00	6° $\overline{3}$ 30'14		minimum elong	-3948 Feb 24 j 03:36	4° \approx 24'44	0°48'47
evening set	-3954 Jan 13 j 21:22	9° $\overline{3}$ 27'37		max. Earth dist.	-3948 Feb 24 j 17:26	4° \approx 26'42	20.88325 AU
				morning rise	-3948 Mar 11 j 16:28	5° \approx 20'56	
conjunction	-3954 Jan 30 j 00:16	10° $\overline{3}$ 22'13	-0°41'17	retrograde	-3948 Jun 14 j 11:47	8° \approx 29'41	
minimum elong	-3954 Jan 30 j 00:16	10° $\overline{3}$ 22'13	0°41'26	opposition	-3948 Aug 30 j 12:36	6° \approx 29'22	-0°54'04
max. Earth dist.	-3954 Jan 30 j 23:18	10° $\overline{3}$ 25'30	21.06607 AU	min. Earth dist.	-3948 Aug 30 j 00:33	6° \approx 30'36	18.86290 AU
morning rise	-3954 Feb 15 j 07:26	11° $\overline{3}$ 17'26		direct	-3948 Nov 13 j 03:15	4° \approx 31'43	
retrograde	-3954 May 21 j 05:47	14° $\overline{3}$ 24'46		evening set	-3947 Feb 11 j 04:03	7° \approx 32'15	
opposition	-3954 Aug 06 j 23:59	12° $\overline{3}$ 25'09	-0°46'39				
min. Earth dist.	-3954 Aug 06 j 03:22	12° $\overline{3}$ 27'14	19.05673 AU	conjunction	-3947 Feb 27 j 14:14	8° \approx 28'10	-0°49'04
direct	-3954 Oct 20 j 20:39	10° $\overline{3}$ 28'53		minimum elong	-3947 Feb 27 j 14:14	8° \approx 28'10	0°49'12
evening set	-3953 Jan 18 j 03:47	13° $\overline{3}$ 26'29		max. Earth dist.	-3947 Feb 28 j 03:02	8° \approx 30'00	20.84130 AU
				morning rise	-3947 Mar 16 j 03:53	9° \approx 24'36	
conjunction	-3953 Feb 03 j 07:44	14° $\overline{3}$ 21'14	-0°43'03	retrograde	-3947 Jun 18 j 21:50	12° \approx 33'42	
minimum elong	-3953 Feb 03 j 07:44	14° $\overline{3}$ 21'14	0°43'13	opposition	-3947 Sep 03 j 19:16	10° \approx 33'19	-0°54'25
max. Earth dist.	-3953 Feb 04 j 05:49	14° $\overline{3}$ 24'23	21.04539 AU	min. Earth dist.	-3947 Sep 03 j 09:11	10° \approx 34'22	18.81937 AU
morning rise	-3953 Feb 19 j 15:49	15° $\overline{3}$ 16'34		direct	-3947 Nov 17 j 08:34	8° \approx 35'26	
retrograde	-3953 May 25 j 12:57	18° $\overline{3}$ 24'03		evening set	-3946 Feb 15 j 14:32	11° \approx 36'44	
min. Earth dist.	-3953 Aug 10 j 11:24	16° $\overline{3}$ 26'12	19.03366 AU				
opposition	-3953 Aug 11 j 06:05	16° $\overline{3}$ 24'18	-0°48'29	conjunction	-3946 Mar 04 j 01:38	12° \approx 32'54	-0°49'15
direct	-3953 Oct 25 j 01:06	14° $\overline{3}$ 27'50		minimum elong	-3946 Mar 04 j 01:38	12° \approx 32'54	0°49'23
evening set	-3952 Jan 22 j 10:25	17° $\overline{3}$ 25'43		max. Earth dist.	-3946 Mar 04 j 11:41	12° \approx 34'20	20.79638 AU
				morning rise	-3946 Mar 20 j 16:14	13° \approx 29'33	
conjunction	-3952 Feb 07 j 15:21	18° $\overline{3}$ 20'37	-0°44'36		-3946 Apr 18 j 19:18	15° \approx	
minimum elong	-3952 Feb 07 j 15:21	18° $\overline{3}$ 20'37	0°44'45	retrograde	-3946 Jun 23 j 09:43	16° \approx 39'03	
max. Earth dist.	-3952 Feb 08 j 11:32	18° $\overline{3}$ 23'30	21.02023 AU		-3946 Aug 30 j 10:34	15° \approx	
morning rise	-3952 Feb 24 j 00:29	19° $\overline{3}$ 16'07		opposition	-3946 Sep 08 j 02:04	14° \approx 38'36	-0°54'29
retrograde	-3952 May 28 j 22:13	22° $\overline{3}$ 23'46		min. Earth dist.	-3946 Sep 07 j 17:39	14° \approx 39'29	18.77282 AU
opposition	-3952 Aug 14 j 12:05	20° $\overline{3}$ 23'52	-0°50'05	direct	-3946 Nov 21 j 15:08	12° \approx 40'27	
min. Earth dist.	-3952 Aug 13 j 18:14	20° $\overline{3}$ 25'41	19.00642 AU		-3945 Feb 07 j 00:49	15° \approx	
direct	-3952 Oct 28 j 06:37	18° $\overline{3}$ 27'10		evening set	-3945 Feb 20 j 01:47	15° \approx 42'36	
evening set	-3951 Jan 25 j 17:38	21° $\overline{3}$ 25'26					
				conjunction	-3945 Mar 08 j 13:57	16° \approx 39'01	-0°49'11
conjunction	-3951 Feb 10 j 23:39	22° $\overline{3}$ 20'31	-0°45'57	minimum elong	-3945 Mar 08 j 13:57	16° \approx 39'01	0°49'17
minimum elong	-3951 Feb 10 j 23:38	22° $\overline{3}$ 20'31	0°46'07	max. Earth dist.	-3945 Mar 08 j 22:40	16° \approx 40'16	20.74810 AU
max. Earth dist.	-3951 Feb 11 j 18:56	22° $\overline{3}$ 23'16	20.99098 AU	morning rise	-3945 Mar 25 j 05:10	17° \approx 35'54	
morning rise	-3951 Feb 27 j 09:40	23° $\overline{3}$ 16'10		retrograde	-3945 Jun 27 j 21:15	20° \approx 45'49	
retrograde	-3951 Jun 02 j 06:19	26° $\overline{3}$ 24'02		opposition	-3945 Sep 12 j 09:26	18° \approx 45'19	-0°54'17
opposition	-3951 Aug 18 j 18:02	24° $\overline{3}$ 24'01	-0°51'27	min. Earth dist.	-3945 Sep 12 j 03:11	18° \approx 45'58	18.72278 AU
min. Earth dist.	-3951 Aug 18 j 02:01	24° $\overline{3}$ 25'39	18.97534 AU	direct	-3945 Nov 25 j 21:45	16° \approx 46'54	
direct	-3951 Nov 01 j 11:07	22° $\overline{3}$ 27'05		evening set	-3944 Feb 24 j 13:47	19° \approx 49'55	
evening set	-3950 Jan 30 j 01:23	25° $\overline{3}$ 25'47					
				conjunction	-3944 Mar 12 j 02:48	20° \approx 46'36	-0°48'51
conjunction	-3950 Feb 15 j 08:25	26° $\overline{3}$ 21'04	-0°47'04	minimum elong	-3944 Mar 12 j 02:48	20° \approx 46'36	0°48'58
minimum elong	-3950 Feb 15 j 08:25	26° $\overline{3}$ 21'04	0°47'13	max. Earth dist.	-3944 Mar 12 j 08:22	20° \approx 47'24	20.69638 AU
max. Earth dist.	-3950 Feb 16 j 01:33	26° $\overline{3}$ 23'30	20.95828 AU	morning rise	-3944 Mar 28 j 18:54	21° \approx 43'43	
morning rise	-3950 Mar 03 j 19:30	27° $\overline{3}$ 16'53		retrograde	-3944 Jul 01 j 09:55	24° \approx 54'07	
retrograde	-3950 May 05 j 12:17	0° \approx		opposition	-3944 Sep 15 j 17:13	22° \approx 53'31	-0°53'48
	-3950 Jun 06 j 16:04	0° \approx 25'00		min. Earth dist.	-3944 Sep 15 j 12:56	22° \approx 53'58	18.66921 AU
	-3950 Jul 09 j 04:39	30° \overline{R} $\overline{3}$		direct	-3944 Nov 29 j 05:15	20° \approx 54'46	
min. Earth dist.	-3950 Aug 22 j 09:03	28° $\overline{3}$ 26'24	18.94096 AU	evening set	-3943 Feb 28 j 02:46	23° \approx 58'44	
opposition	-3950 Aug 23 j 00:05	28° $\overline{3}$ 24'52	-0°52'35				

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 38

Attention, astronomical year style is used: The year -3943 in astronomical counting style is the year 3944 BCE in historical counting style.

conjunction	-3943 Mar 16 j 16:49	24° \approx 55'41	-0°48'16	retrograde	-3937 Aug 01 j 11:53	24° \approx 34'28	
minimum elong	-3943 Mar 16 j 16:49	24° \approx 55'41	0°48'22	opposition	-3937 Oct 15 j 12:14	22° \approx 32'48	-0°42'25
max. Earth dist.	-3943 Mar 16 j 20:47	24° \approx 56'16	20.64085 AU	min. Earth dist.	-3937 Oct 15 j 21:38	22° \approx 31'48	18.21654 AU
morning rise	-3943 Apr 02 j 09:28	25° \approx 53'03		direct	-3937 Dec 29 j 05:14	20° \approx 31'09	
retrograde	-3943 Jul 05 j 22:39	29° \approx 03'53		evening set	-3936 Mar 30 j 20:36	23° \approx 42'51	
opposition	-3943 Sep 20 j 01:21	27° \approx 03'11	-0°53'01				
min. Earth dist.	-3943 Sep 19 j 23:20	27° \approx 03'23	18.61175 AU	conjunction	-3936 Apr 16 j 15:34	24° \approx 41'52	-0°37'03
direct	-3943 Dec 03 j 13:39	25° \approx 04'05		minimum elong	-3936 Apr 16 j 15:34	24° \approx 41'52	0°37'04
evening set	-3942 Mar 04 j 16:42	28° \approx 09'01		max. Earth dist.	-3936 Apr 16 j 02:11	24° \approx 39'54	20.18257 AU
				morning rise	-3936 May 03 j 11:20	25° \approx 41'00	
conjunction	-3942 Mar 21 j 07:32	29° \approx 06'15	-0°47'26	retrograde	-3936 Aug 05 j 03:55	28° \approx 55'21	
minimum elong	-3942 Mar 21 j 07:32	29° \approx 06'15	0°47'31	opposition	-3936 Oct 19 j 00:08	26° \approx 53'33	-0°39'43
max. Earth dist.	-3942 Mar 21 j 07:53	29° \approx 06'18	20.58171 AU	min. Earth dist.	-3936 Oct 19 j 11:35	26° \approx 52'19	18.14877 AU
	-3942 Apr 05 j 21:36	0° \approx		direct	-3935 Jan 01 j 18:38	24° \approx 51'29	
morning rise	-3942 Apr 07 j 00:58	0° \approx 03'52		evening set	-3935 Apr 04 j 16:15	28° \approx 04'28	
retrograde	-3942 Jul 10 j 11:47	3° \approx 15'10					
opposition	-3942 Sep 24 j 10:01	1° \approx 14'18	-0°51'57	conjunction	-3935 Apr 21 j 11:50	29° \approx 03'47	-0°34'29
min. Earth dist.	-3942 Sep 24 j 10:09	1° \approx 14'18	18.55088 AU	minimum elong	-3935 Apr 21 j 11:50	29° \approx 03'47	0°34'29
	-3942 Oct 26 j 05:06	30° \approx		max. Earth dist.	-3935 Apr 20 j 21:38	29° \approx 01'41	20.11520 AU
direct	-3942 Dec 07 j 22:25	29° \approx 14'49			-3935 May 07 j 09:40	0° \approx	
	-3941 Jan 18 j 23:50	0° \approx		morning rise	-3935 May 08 j 07:33	0° \approx 03'10	
evening set	-3941 Mar 09 j 07:12	2° \approx 20'46		retrograde	-3935 Aug 09 j 20:30	3° \approx 18'03	
				opposition	-3935 Oct 23 j 12:35	1° \approx 16'11	-0°36'46
conjunction	-3941 Mar 25 j 22:59	3° \approx 18'18	-0°46'19	min. Earth dist.	-3935 Oct 24 j 01:05	1° \approx 14'51	18.08189 AU
minimum elong	-3941 Mar 25 j 22:59	3° \approx 18'18	0°46'25		-3935 Nov 24 j 09:53	30° \approx	
max. Earth dist.	-3941 Mar 25 j 21:51	3° \approx 18'08	20.51921 AU	direct	-3934 Jan 06 j 08:37	29° \approx 13'46	
morning rise	-3941 Apr 11 j 16:48	4° \approx 16'09			-3934 Feb 17 j 18:52	0° \approx	
retrograde	-3941 Jul 15 j 01:21	7° \approx 27'55		evening set	-3934 Apr 09 j 12:59	2° \approx 28'04	
opposition	-3941 Sep 28 j 19:04	5° \approx 26'54	-0°50'36				
min. Earth dist.	-3941 Sep 28 j 21:13	5° \approx 26'41	18.48692 AU	conjunction	-3934 Apr 26 j 08:45	3° \approx 27'39	-0°31'42
direct	-3941 Dec 12 j 08:22	3° \approx 27'00		minimum elong	-3934 Apr 26 j 08:45	3° \approx 27'39	0°31'43
evening set	-3940 Mar 12 j 22:40	6° \approx 34'00		max. Earth dist.	-3934 Apr 25 j 15:31	3° \approx 25'06	20.04898 AU
				morning rise	-3934 May 13 j 04:36	4° \approx 27'17	
conjunction	-3940 Mar 29 j 15:07	7° \approx 31'49	-0°44'58	retrograde	-3934 Aug 14 j 13:30	7° \approx 42'46	
minimum elong	-3940 Mar 29 j 15:07	7° \approx 31'49	0°45'02	opposition	-3934 Oct 28 j 01:58	5° \approx 40'50	-0°33'35
max. Earth dist.	-3940 Mar 29 j 10:28	7° \approx 31'09	20.45418 AU	min. Earth dist.	-3934 Oct 28 j 16:37	5° \approx 39'16	18.01641 AU
morning rise	-3940 Apr 15 j 09:37	8° \approx 29'56		direct	-3933 Jan 10 j 23:32	3° \approx 38'04	
retrograde	-3940 Jul 18 j 15:02	11° \approx 42'11		evening set	-3933 Apr 14 j 10:18	6° \approx 53'41	
opposition	-3940 Oct 02 j 04:32	9° \approx 40'59	-0°48'58				
min. Earth dist.	-3940 Oct 02 j 08:51	9° \approx 40'32	18.42090 AU	conjunction	-3933 May 01 j 06:28	7° \approx 53'34	-0°28'43
direct	-3940 Dec 15 j 18:31	7° \approx 40'38		minimum elong	-3933 May 01 j 06:28	7° \approx 53'34	0°28'42
evening set	-3939 Mar 17 j 14:50	10° \approx 48'45		max. Earth dist.	-3933 Apr 30 j 12:31	7° \approx 50'54	19.98417 AU
				morning rise	-3933 May 18 j 02:05	8° \approx 53'26	
conjunction	-3939 Apr 03 j 08:12	11° \approx 46'52	-0°43'21	retrograde	-3933 Aug 19 j 07:43	12° \approx 09'30	
minimum elong	-3939 Apr 03 j 08:12	11° \approx 46'52	0°43'25	opposition	-3933 Nov 01 j 16:03	10° \approx 07'33	-0°30'10
max. Earth dist.	-3939 Apr 03 j 02:19	11° \approx 46'01	20.38726 AU	min. Earth dist.	-3933 Nov 02 j 07:33	10° \approx 05'53	17.95224 AU
morning rise	-3939 Apr 20 j 02:59	12° \approx 45'15		direct	-3932 Jan 15 j 15:53	8° \approx 04'28	
retrograde	-3939 Jul 23 j 05:38	15° \approx 57'59		evening set	-3932 Apr 18 j 08:51	11° \approx 21'26	
opposition	-3939 Oct 06 j 14:33	13° \approx 56'37	-0°47'03	max. Earth dist.	-3932 May 04 j 08:14	12° \approx 18'28	19.92066 AU
min. Earth dist.	-3939 Oct 06 j 20:34	13° \approx 55'59	18.35325 AU				
direct	-3939 Dec 20 j 05:28	11° \approx 55'50		conjunction	-3932 May 05 j 05:02	12° \approx 21'35	-0°25'32
evening set	-3938 Mar 22 j 08:03	15° \approx 05'06		minimum elong	-3932 May 05 j 05:02	12° \approx 21'35	0°25'31
				morning rise	-3932 May 22 j 00:34	13° \approx 21'40	
conjunction	-3938 Apr 08 j 01:53	16° \approx 03'31	-0°41'29	retrograde	-3932 Aug 23 j 01:42	16° \approx 38'18	
minimum elong	-3938 Apr 08 j 01:53	16° \approx 03'31	0°41'31	opposition	-3932 Nov 05 j 06:54	14° \approx 36'21	-0°26'32
max. Earth dist.	-3938 Apr 07 j 16:36	16° \approx 02'09	20.31919 AU	min. Earth dist.	-3932 Nov 06 j 00:52	14° \approx 34'24	17.88946 AU
morning rise	-3938 Apr 24 j 21:11	17° \approx 02'08		direct	-3931 Jan 19 j 08:23	12° \approx 32'56	
retrograde	-3938 Jul 27 j 20:24	20° \approx 15'23		evening set	-3931 Apr 23 j 08:14	15° \approx 51'15	
opposition	-3938 Oct 11 j 01:04	18° \approx 13'52	-0°44'52	max. Earth dist.	-3931 May 09 j 06:44	16° \approx 48'22	19.85843 AU
min. Earth dist.	-3938 Oct 11 j 09:12	18° \approx 13'00	18.28496 AU				
direct	-3938 Dec 24 j 17:15	16° \approx 12'37		conjunction	-3931 May 10 j 04:36	16° \approx 51'39	-0°22'10
evening set	-3937 Mar 27 j 01:53	19° \approx 23'06		minimum elong	-3931 May 10 j 04:36	16° \approx 51'39	0°22'08
				morning rise	-3931 May 26 j 23:47	17° \approx 51'56	
conjunction	-3937 Apr 12 j 20:28	20° \approx 21'49	-0°39'23	retrograde	-3931 Aug 27 j 21:55	21° \approx 09'09	
minimum elong	-3937 Apr 12 j 20:29	20° \approx 21'49	0°39'25	opposition	-3931 Nov 09 j 22:39	19° \approx 07'10	-0°22'42
max. Earth dist.	-3937 Apr 12 j 10:16	20° \approx 20'19	20.25073 AU	min. Earth dist.	-3931 Nov 10 j 17:26	19° \approx 05'08	17.82774 AU
morning rise	-3937 Apr 29 j 15:52	21° \approx 20'42		direct	-3930 Jan 24 j 03:13	17° \approx 03'26	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 39

Attention, astronomical year style is used: The year -3930 in astronomical counting style is the year 3931 BCE in historical counting style.

evening set	-3930 Apr 28 j 08:35	20° Υ 23'04		behind sun begin	-3925 Jun 08 j 07:18	14° 8 27'48	
max. Earth dist.	-3930 May 14 j 04:17	21° Υ 20'00	19.79717 AU	behind sun end	-3925 Jun 08 j 20:49	14° 8 29'50	
					-3925 Jun 17 j 00:23	15° 8	
conjunction	-3930 May 15 j 04:46	21° Υ 23'42	-0°18'39	morning rise	-3925 Jun 25 j 05:33	15° 8 30'00	
minimum elong	-3930 May 15 j 04:45	21° Υ 23'42	0°18'35	retrograde	-3925 Sep 25 j 05:33	18° 8 49'52	
morning rise	-3930 May 31 j 23:33	22° Υ 24'11		opposition	-3925 Dec 07 j 14:02	16° 8 47'32	0°02'55
retrograde	-3930 Sep 01 j 16:55	25° Υ 41'56		min. Earth dist.	-3925 Dec 08 j 15:43	16° 8 44'43	17.49670 AU
opposition	-3930 Nov 14 j 15:21	23° Υ 39'56	-0°18'42		-3924 Jan 25 j 22:08	15° 8	
min. Earth dist.	-3930 Nov 15 j 12:34	23° Υ 37'37	17.76720 AU	direct	-3924 Feb 21 j 09:25	14° 8 41'45	
direct	-3929 Jan 28 j 21:20	21° Υ 35'51			-3924 Mar 18 j 16:19	15° 8	
evening set	-3929 May 03 j 09:33	24° Υ 56'44		evening set	-3924 May 26 j 23:19	18° 8 08'10	
max. Earth dist.	-3929 May 19 j 03:57	25° Υ 53'42	19.73730 AU	max. Earth dist.	-3924 Jun 11 j 10:14	19° 8 05'05	19.47420 AU
conjunction	-3929 May 20 j 05:39	25° Υ 57'36	-0°14'59	conjunction	-3924 Jun 12 j 17:06	19° 8 09'52	0°04'42
minimum elong	-3929 May 20 j 05:39	25° Υ 57'36	0°14'55	minimum elong	-3924 Jun 12 j 17:07	19° 8 09'52	0°04'49
behind sun begin	-3929 May 20 j 03:26	25° Υ 57'17		behind sun begin	-3924 Jun 12 j 10:31	19° 8 08'52	
behind sun end	-3929 May 20 j 07:53	25° Υ 57'56		behind sun end	-3924 Jun 12 j 23:43	19° 8 10'51	
morning rise	-3929 Jun 05 j 23:57	26° Υ 58'16		morning rise	-3924 Jun 29 j 07:32	20° 8 11'07	
	-3929 Aug 13 j 00:23	0° 8		retrograde	-3924 Sep 29 j 03:08	23° 8 31'18	
retrograde	-3929 Sep 06 j 14:47	0° 8 16'30		opposition	-3924 Dec 11 j 11:08	21° 8 28'55	0°07'22
	-3929 Oct 01 j 09:18	30° 8 Υ		min. Earth dist.	-3924 Dec 12 j 14:10	21° 8 25'58	17.45362 AU
opposition	-3929 Nov 19 j 08:41	28° Υ 14'27	-0°14'34	direct	-3923 Feb 25 j 08:29	19° 8 22'51	
min. Earth dist.	-3929 Nov 20 j 06:25	28° Υ 12'05	17.70806 AU	evening set	-3923 Jun 01 j 03:23	22° 8 50'12	
direct	-3928 Feb 02 j 18:07	26° Υ 10'01					
evening set	-3928 May 07 j 11:16	29° Υ 32'08		conjunction	-3923 Jun 17 j 20:14	23° 8 51'58	0°08'39
	-3928 May 15 j 04:51	0° 8		minimum elong	-3923 Jun 17 j 20:15	23° 8 51'58	0°08'48
max. Earth dist.	-3928 May 23 j 03:25	0° 8 29'00	19.67895 AU	behind sun begin	-3923 Jun 17 j 14:27	23° 8 51'06	
				behind sun end	-3923 Jun 18 j 02:03	23° 8 52'51	
conjunction	-3928 May 24 j 07:06	0° 8 33'13	-0°11'12	max. Earth dist.	-3923 Jun 16 j 12:24	23° 8 47'02	19.43371 AU
minimum elong	-3928 May 24 j 07:06	0° 8 33'13	0°11'07	morning rise	-3923 Jul 04 j 09:48	24° 8 53'17	
behind sun begin	-3928 May 24 j 02:07	0° 8 32'28		retrograde	-3923 Oct 04 j 02:25	28° 8 13'47	
behind sun end	-3928 May 24 j 12:05	0° 8 33'57		opposition	-3923 Dec 16 j 08:57	26° 8 11'22	0°11'46
morning rise	-3928 Jun 10 j 00:48	1° 8 34'03		min. Earth dist.	-3923 Dec 17 j 11:17	26° 8 08'29	17.41588 AU
retrograde	-3928 Sep 10 j 10:55	4° 8 52'44		direct	-3922 Mar 02 j 09:46	24° 8 05'05	
opposition	-3928 Nov 23 j 03:00	2° 8 50'37	-0°10'18	evening set	-3922 Jun 06 j 07:26	27° 8 33'16	
min. Earth dist.	-3928 Nov 24 j 03:01	2° 8 48'00	17.65078 AU				
direct	-3927 Feb 06 j 13:52	0° 8 45'49		conjunction	-3922 Jun 22 j 23:32	28° 8 35'06	0°12'34
evening set	-3927 May 12 j 13:39	4° 8 09'07		minimum elong	-3922 Jun 22 j 23:32	28° 8 35'06	0°12'42
max. Earth dist.	-3927 May 28 j 04:10	5° 8 05'57	19.62283 AU	behind sun begin	-3922 Jun 22 j 19:21	28° 8 34'28	
				behind sun end	-3922 Jun 23 j 03:43	28° 8 35'44	
conjunction	-3927 May 29 j 09:07	5° 8 10'23	-0°07'20	max. Earth dist.	-3922 Jun 21 j 16:44	28° 8 30'19	19.39868 AU
minimum elong	-3927 May 29 j 09:07	5° 8 10'23	0°07'15	morning rise	-3922 Jul 09 j 11:48	29° 8 36'26	
behind sun begin	-3927 May 29 j 02:54	5° 8 09'27			-3922 Jul 16 j 00:40	0° II	
behind sun end	-3927 May 29 j 15:19	5° 8 11'18		retrograde	-3922 Oct 09 j 01:00	2° II 57'12	
morning rise	-3927 Jun 15 j 02:12	6° 8 11'21		opposition	-3922 Dec 21 j 07:36	0° II 54'50	0°16'07
retrograde	-3927 Sep 15 j 09:30	9° 8 30'27		min. Earth dist.	-3922 Dec 22 j 10:31	0° II 51'53	17.38384 AU
opposition	-3927 Nov 27 j 21:50	7° 8 28'16	-0°05'56		-3921 Jan 11 j 22:33	30° 8	
min. Earth dist.	-3927 Nov 28 j 22:00	7° 8 25'38	17.59595 AU	direct	-3921 Mar 07 j 10:36	28° 8 48'25	
direct	-3926 Feb 11 j 12:08	5° 8 23'07			-3921 Apr 29 j 13:43	0° II	
evening set	-3926 May 17 j 16:33	8° 8 47'31		evening set	-3921 Jun 11 j 11:52	2° II 17'21	
max. Earth dist.	-3926 Jun 02 j 05:38	9° 8 44'22	19.56943 AU	max. Earth dist.	-3921 Jun 26 j 19:18	3° II 14'17	19.36973 AU
conjunction	-3926 Jun 03 j 11:34	9° 8 48'58	-0°03'24	conjunction	-3921 Jun 28 j 02:51	3° II 19'12	0°16'26
minimum elong	-3926 Jun 03 j 11:34	9° 8 48'58	0°03'18	minimum elong	-3921 Jun 28 j 02:51	3° II 19'12	0°16'34
behind sun begin	-3926 Jun 03 j 04:49	9° 8 47'57		morning rise	-3921 Jul 14 j 14:09	4° II 20'32	
behind sun end	-3926 Jun 03 j 18:18	9° 8 49'58		retrograde	-3921 Oct 14 j 00:28	7° II 41'35	
morning rise	-3926 Jun 20 j 03:46	10° 8 50'03		opposition	-3921 Dec 26 j 06:37	5° II 39'15	0°20'22
retrograde	-3926 Sep 20 j 06:36	14° 8 09'33		min. Earth dist.	-3921 Dec 27 j 08:44	5° II 36'24	17.35800 AU
opposition	-3926 Dec 02 j 17:41	12° 8 07'17	-0°01'31	direct	-3920 Mar 11 j 12:47	3° II 32'44	
min. Earth dist.	-3926 Dec 03 j 19:41	12° 8 04'27	17.54434 AU	evening set	-3920 Jun 15 j 16:18	7° II 02'22	
direct	-3925 Feb 16 j 09:34	10° 8 01'48		max. Earth dist.	-3920 Jul 01 j 00:27	7° II 59'33	19.34686 AU
asc. node	-3925 Apr 08 j 21:05	11° 8 09'08					
evening set	-3925 May 22 j 19:41	13° 8 27'15		conjunction	-3920 Jul 02 j 06:27	8° II 04'15	0°20'11
max. Earth dist.	-3925 Jun 07 j 07:07	14° 8 24'03	19.51974 AU	minimum elong	-3920 Jul 02 j 06:26	8° II 04'15	0°20'20
				morning rise	-3920 Jul 18 j 16:24	9° II 05'33	
conjunction	-3925 Jun 08 j 14:04	14° 8 28'49	0°00'41	retrograde	-3920 Oct 18 j 00:07	12° II 26'48	
minimum elong	-3925 Jun 08 j 14:04	14° 8 28'49	0°00'48	opposition	-3920 Dec 30 j 06:31	10° II 24'36	0°24'30

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 40

Attention, astronomical year style is used: The year -3919 in astronomical counting style is the year 3920 BCE in historical counting style.

min. Earth dist.	-3920 Dec 31 j 08:46	10° Π 21'44	17.33805 AU	conjunction	-3913 Aug 06 j 01:56	11° \mathfrak{C} 32'38	0°41'29
direct	-3919 Mar 16 j 15:12	8° Π 18'04		minimum elong	-3913 Aug 06 j 01:56	11° \mathfrak{C} 32'38	0°41'40
evening set	-3919 Jun 20 j 21:00	11° Π 48'17		morning rise	-3913 Aug 22 j 02:59	12° \mathfrak{C} 33'09	
max. Earth dist.	-3919 Jul 06 j 03:17	12° Π 45'20	19.32987 AU	retrograde	-3913 Nov 21 j 02:16	15° \mathfrak{C} 54'34	
				opposition	-3912 Feb 02 j 18:50	13° \mathfrak{C} 53'04	0°47'26
conjunction	-3919 Jul 07 j 09:50	12° Π 50'08	0°23'49	min. Earth dist.	-3912 Feb 03 j 16:00	13° \mathfrak{C} 50'47	17.34333 AU
minimum elong	-3919 Jul 07 j 09:50	12° Π 50'08	0°23'58	direct	-3912 Apr 19 j 17:37	11° \mathfrak{C} 46'59	
morning rise	-3919 Jul 23 j 18:41	13° Π 51'24		evening set	-3912 Jul 24 j 23:00	15° \mathfrak{C} 17'43	
retrograde	-3919 Oct 22 j 23:59	17° Π 12'51		max. Earth dist.	-3912 Aug 09 j 04:37	16° \mathfrak{C} 15'07	19.35225 AU
opposition	-3918 Jan 04 j 06:56	15° Π 10'46	0°28'29				
min. Earth dist.	-3918 Jan 05 j 08:32	15° Π 07'58	17.32395 AU	conjunction	-3912 Aug 10 j 02:58	16° \mathfrak{C} 18'39	0°43'31
direct	-3918 Mar 21 j 18:30	13° Π 04'14		minimum elong	-3912 Aug 10 j 02:58	16° \mathfrak{C} 18'39	0°43'41
evening set	-3918 Jun 26 j 01:33	16° Π 34'56		morning rise	-3912 Aug 26 j 02:50	17° \mathfrak{C} 18'58	
max. Earth dist.	-3918 Jul 11 j 08:37	17° Π 32'13	19.31847 AU	retrograde	-3912 Nov 25 j 02:51	20° \mathfrak{C} 40'10	
				opposition	-3911 Feb 06 j 21:27	18° \mathfrak{C} 38'42	0°49'31
conjunction	-3918 Jul 12 j 13:20	17° Π 36'44	0°27'18	min. Earth dist.	-3911 Feb 07 j 16:15	18° \mathfrak{C} 36'41	17.36310 AU
minimum elong	-3918 Jul 12 j 13:20	17° Π 36'44	0°27'29	direct	-3911 Apr 24 j 23:26	16° \mathfrak{C} 32'45	
morning rise	-3918 Jul 28 j 20:47	18° Π 37'56		evening set	-3911 Jul 30 j 00:31	20° \mathfrak{C} 03'01	
retrograde	-3918 Oct 28 j 00:24	21° Π 59'31		max. Earth dist.	-3911 Aug 14 j 06:59	21° \mathfrak{C} 00'31	19.37453 AU
opposition	-3917 Jan 09 j 08:01	19° Π 57'35	0°32'17				
min. Earth dist.	-3917 Jan 10 j 09:13	19° Π 54'50	17.31517 AU	conjunction	-3911 Aug 15 j 03:12	21° \mathfrak{C} 03'43	0°45'15
direct	-3917 Mar 26 j 22:11	17° Π 51'07		minimum elong	-3911 Aug 15 j 03:11	21° \mathfrak{C} 03'43	0°45'25
evening set	-3917 Jul 01 j 05:59	21° Π 22'08		morning rise	-3911 Aug 31 j 01:47	22° \mathfrak{C} 03'49	
max. Earth dist.	-3917 Jul 16 j 11:27	22° Π 19'17	19.31226 AU	retrograde	-3911 Nov 30 j 00:32	25° \mathfrak{C} 24'46	
				opposition	-3910 Feb 12 j 00:12	23° \mathfrak{C} 23'20	0°51'16
conjunction	-3917 Jul 17 j 16:25	22° Π 23'51	0°30'36	min. Earth dist.	-3910 Feb 12 j 18:16	23° \mathfrak{C} 21'24	17.38802 AU
minimum elong	-3917 Jul 17 j 16:25	22° Π 23'51	0°30'46	direct	-3910 Apr 30 j 03:02	21° \mathfrak{C} 17'33	
morning rise	-3917 Aug 02 j 22:42	23° Π 24'58		evening set	-3910 Aug 04 j 01:18	24° \mathfrak{C} 47'13	
retrograde	-3917 Nov 02 j 00:41	26° Π 46'39		max. Earth dist.	-3910 Aug 19 j 08:09	25° \mathfrak{C} 44'45	19.40219 AU
opposition	-3916 Jan 14 j 09:32	24° Π 44'49	0°35'52				
min. Earth dist.	-3916 Jan 15 j 10:17	24° Π 42'08	17.31151 AU	conjunction	-3910 Aug 20 j 02:38	25° \mathfrak{C} 47'40	0°46'39
direct	-3916 Mar 31 j 01:44	22° Π 38'24		minimum elong	-3910 Aug 20 j 02:38	25° \mathfrak{C} 47'40	0°46'49
evening set	-3916 Jul 05 j 10:15	26° Π 09'39		morning rise	-3910 Sep 05 j 00:12	26° \mathfrak{C} 47'33	
					-3910 Nov 17 j 20:43	0° Ω	
conjunction	-3916 Jul 21 j 19:31	27° Π 11'16	0°33'42	retrograde	-3910 Dec 04 j 24:00	0° Ω 08'12	
minimum elong	-3916 Jul 21 j 19:31	27° Π 11'16	0°33'52		-3910 Dec 22 j 06:45	30° \mathfrak{R} \mathfrak{C}	
max. Earth dist.	-3916 Jul 20 j 16:18	27° Π 06'58	19.31095 AU	opposition	-3909 Feb 17 j 02:35	28° \mathfrak{C} 06'48	0°52'39
morning rise	-3916 Aug 07 j 00:24	28° Π 12'15		min. Earth dist.	-3909 Feb 17 j 17:40	28° \mathfrak{C} 05'12	17.41833 AU
	-3916 Sep 07 j 20:04	0° \mathfrak{C}		direct	-3909 May 05 j 08:34	26° \mathfrak{C} 01'12	
retrograde	-3916 Nov 06 j 01:41	1° \mathfrak{C} 33'57		evening set	-3909 Aug 09 j 01:09	29° \mathfrak{C} 30'12	
	-3915 Jan 07 j 16:46	30° \mathfrak{R} Π			-3909 Aug 17 j 00:34	0° Ω	
opposition	-3915 Jan 18 j 11:26	29° Π 32'15	0°39'12	max. Earth dist.	-3909 Aug 24 j 09:46	0° Ω 27'56	19.43522 AU
min. Earth dist.	-3915 Jan 19 j 11:11	29° Π 29'40	17.31245 AU				
direct	-3915 Apr 05 j 06:04	27° Π 25'54		conjunction	-3909 Aug 25 j 01:21	0° Ω 30'24	0°47'45
	-3915 Jun 24 j 13:47	0° \mathfrak{C}		minimum elong	-3909 Aug 25 j 01:21	0° Ω 30'24	0°47'53
evening set	-3915 Jul 10 j 14:19	0° \mathfrak{C} 57'13		morning rise	-3909 Sep 09 j 21:44	1° Ω 30'03	
				retrograde	-3909 Dec 09 j 20:45	4° Ω 50'22	
conjunction	-3915 Jul 26 j 22:11	1° \mathfrak{C} 58'42	0°36'34	opposition	-3908 Feb 22 j 05:01	2° Ω 49'03	0°53'41
minimum elong	-3915 Jul 26 j 22:11	1° \mathfrak{C} 58'42	0°36'44	min. Earth dist.	-3908 Feb 22 j 19:00	2° Ω 47'34	17.45411 AU
max. Earth dist.	-3915 Jul 25 j 19:14	1° \mathfrak{C} 54'26	19.31424 AU	direct	-3908 May 09 j 11:16	0° Ω 43'42	
morning rise	-3915 Aug 12 j 01:48	2° \mathfrak{C} 59'33		evening set	-3908 Aug 13 j 00:20	4° Ω 11'56	
retrograde	-3915 Nov 11 j 02:02	6° \mathfrak{C} 21'14					
opposition	-3914 Jan 23 j 13:48	4° \mathfrak{C} 19'36	0°42'15	conjunction	-3908 Aug 28 j 23:11	5° Ω 11'51	0°48'31
min. Earth dist.	-3914 Jan 24 j 13:07	4° \mathfrak{C} 17'05	17.31814 AU	minimum elong	-3908 Aug 28 j 23:11	5° Ω 11'51	0°48'40
direct	-3914 Apr 10 j 09:21	2° \mathfrak{C} 13'20		max. Earth dist.	-3908 Aug 28 j 09:12	5° Ω 09'39	19.47382 AU
evening set	-3914 Jul 15 j 17:40	5° \mathfrak{C} 44'35		morning rise	-3908 Sep 13 j 18:41	6° Ω 11'15	
max. Earth dist.	-3914 Jul 30 j 23:08	6° \mathfrak{C} 41'55	19.32224 AU	retrograde	-3908 Dec 13 j 19:40	9° Ω 31'14	
				opposition	-3907 Feb 26 j 07:03	7° Ω 30'00	0°54'22
conjunction	-3914 Aug 01 j 00:16	6° \mathfrak{C} 45'54	0°39'10	min. Earth dist.	-3907 Feb 26 j 17:47	7° Ω 28'52	17.49533 AU
minimum elong	-3914 Aug 01 j 00:16	6° \mathfrak{C} 45'54	0°39'19	direct	-3907 May 14 j 15:24	5° Ω 24'57	
morning rise	-3914 Aug 17 j 02:35	7° \mathfrak{C} 46'36		evening set	-3907 Aug 17 j 22:34	8° Ω 52'22	
retrograde	-3914 Nov 16 j 03:12	11° \mathfrak{C} 08'11					
opposition	-3913 Jan 28 j 16:18	9° \mathfrak{C} 06'37	0°45'00	conjunction	-3907 Sep 02 j 20:25	9° Ω 52'00	0°48'58
min. Earth dist.	-3913 Jan 29 j 13:52	9° \mathfrak{C} 04'18	17.32834 AU	minimum elong	-3907 Sep 02 j 20:25	9° Ω 52'00	0°49'06
direct	-3913 Apr 15 j 14:28	7° \mathfrak{C} 00'27		max. Earth dist.	-3907 Sep 02 j 09:50	9° Ω 50'20	19.51768 AU
evening set	-3913 Jul 20 j 20:40	10° \mathfrak{C} 31'30		morning rise	-3907 Sep 18 j 14:48	10° Ω 51'09	
max. Earth dist.	-3913 Aug 05 j 01:55	11° \mathfrak{C} 28'50	19.33480 AU	retrograde	-3907 Dec 18 j 16:02	14° Ω 10'46	

Planetary Phenomena of Uranus from -4400 through -3898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 41

Attention, astronomical year style is used: The year -3906 in astronomical counting style is the year 3907 BCE in historical counting style.

opposition	-3906 Mar 03 j 09:05	12°09'41	0°54'40	min. Earth dist.	-3900 Mar 31 j 08:32	9°03'37'19	17.88833 AU
min. Earth dist.	-3906 Mar 03 j 18:28	12°08'42	17.54164 AU	direct	-3900 Jun 16 j 17:37	7°03'34'41	
direct	-3906 May 19 j 16:50	10°05'00		evening set	-3900 Sep 18 j 10:10	10°05'54'20	
evening set	-3906 Aug 22 j 19:56	13°03'12'8					
				conjunction	-3900 Oct 04 j 01:43	11°05'51'55	0°43'25
conjunction	-3906 Sep 07 j 16:33	14°03'0'49	0°49'06	minimum elong	-3900 Oct 04 j 01:43	11°05'51'55	0°43'29
minimum elong	-3906 Sep 07 j 16:33	14°03'0'49	0°49'13	max. Earth dist.	-3900 Oct 04 j 05:57	11°05'52'34	19.91983 AU
max. Earth dist.	-3906 Sep 07 j 07:29	14°02'29'24	19.56644 AU	morning rise	-3900 Oct 19 j 15:57	12°05'49'18	
	-3906 Sep 15 j 10:23	15°00		retrograde	-3899 Jan 19 j 12:05	16°05'05'39	
morning rise	-3906 Sep 23 j 10:16	15°02'29'44		opposition	-3899 Apr 05 j 10:59	14°05'05'27	0°47'14
retrograde	-3906 Dec 23 j 14:24	18°04'48'58		min. Earth dist.	-3899 Apr 05 j 05:14	14°06'06'02	17.95152 AU
opposition	-3905 Mar 08 j 10:37	16°04'48'01	0°54'37	direct	-3899 Jun 21 j 14:34	12°03'03'34	
min. Earth dist.	-3905 Mar 08 j 16:54	16°04'47'22	17.59249 AU	evening set	-3899 Sep 23 j 01:13	15°05'21'56	
	-3905 Apr 29 j 07:39	15°08'00					
direct	-3905 May 24 j 18:48	14°04'43'43		conjunction	-3899 Oct 08 j 16:23	16°05'19'13	0°41'30
	-3905 Jun 18 j 18:26	15°00		minimum elong	-3899 Oct 08 j 16:23	16°05'19'13	0°41'33
evening set	-3905 Aug 27 j 16:26	18°02'09'13		max. Earth dist.	-3899 Oct 08 j 23:37	16°05'20'20	19.98330 AU
				morning rise	-3899 Oct 24 j 06:14	17°06'16'21	
conjunction	-3905 Sep 12 j 12:12	19°02'08'17	0°48'55				
minimum elong	-3905 Sep 12 j 12:12	19°02'08'17	0°49'01				
max. Earth dist.	-3905 Sep 12 j 06:34	19°02'07'24	19.61923 AU				
morning rise	-3905 Sep 28 j 04:58	20°02'06'56					
retrograde	-3905 Dec 28 j 10:31	23°02'25'44					
opposition	-3904 Mar 12 j 11:49	21°02'24'58	0°54'13				
min. Earth dist.	-3904 Mar 12 j 16:43	21°02'24'27	17.64699 AU				
direct	-3904 May 28 j 19:27	19°02'21'04					
evening set	-3904 Aug 31 j 12:17	22°02'45'32					
conjunction	-3904 Sep 16 j 06:54	23°02'44'17	0°48'24				
minimum elong	-3904 Sep 16 j 06:54	23°02'44'17	0°48'30				
max. Earth dist.	-3904 Sep 16 j 02:31	23°02'43'36	19.67541 AU				
morning rise	-3904 Oct 01 j 23:07	24°02'42'41					
retrograde	-3903 Jan 01 j 07:45	28°02'01'03					
opposition	-3903 Mar 17 j 12:43	26°02'00'26	0°53'28				
min. Earth dist.	-3903 Mar 17 j 14:50	26°02'00'12	17.70459 AU				
direct	-3903 Jun 02 j 19:34	23°02'56'57					
evening set	-3903 Sep 05 j 06:59	27°02'20'17					
conjunction	-3903 Sep 21 j 00:52	28°02'18'46	0°47'36				
minimum elong	-3903 Sep 21 j 00:52	28°02'18'46	0°47'42				
max. Earth dist.	-3903 Sep 20 j 23:52	28°02'18'36	19.73420 AU				
morning rise	-3903 Oct 06 j 16:17	29°02'16'53					
	-3903 Oct 18 j 18:58	0°00					
retrograde	-3902 Jan 06 j 03:23	2°05'34'48					
opposition	-3902 Mar 22 j 13:15	0°05'34'19	0°52'23				
min. Earth dist.	-3902 Mar 22 j 13:41	0°05'34'16	17.76437 AU				
	-3902 Apr 05 j 11:22	30°08'00					
direct	-3902 Jun 07 j 19:51	28°02'31'16					
	-3902 Aug 06 j 13:10	0°00					
evening set	-3902 Sep 10 j 01:03	1°05'53'25					
conjunction	-3902 Sep 25 j 17:57	2°05'51'35	0°46'29				
minimum elong	-3902 Sep 25 j 17:57	2°05'51'35	0°46'33				
max. Earth dist.	-3902 Sep 25 j 18:03	2°05'51'36	19.79493 AU				
morning rise	-3902 Oct 11 j 09:00	3°05'49'28					
retrograde	-3901 Jan 10 j 23:12	7°05'06'53					
opposition	-3901 Mar 27 j 13:00	5°05'06'31	0°50'58				
min. Earth dist.	-3901 Mar 27 j 11:08	5°05'06'42	17.82590 AU				
direct	-3901 Jun 12 j 18:04	3°05'03'52					
evening set	-3901 Sep 14 j 18:02	6°05'24'48					
conjunction	-3901 Sep 30 j 10:24	7°05'22'41	0°45'05				
minimum elong	-3901 Sep 30 j 10:24	7°05'22'41	0°45'10				
max. Earth dist.	-3901 Sep 30 j 13:34	7°05'23'10	19.85701 AU				
morning rise	-3901 Oct 16 j 00:51	8°05'20'18					
retrograde	-3900 Jan 15 j 17:53	11°05'37'11					
opposition	-3900 Mar 31 j 12:18	9°05'36'56	0°49'14				