Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4900 in astronomical counting style is the year 4901 BCE in historical counting style. opposition -4900 Feb 14 i 21:45 4°**♀**30'58 -4894 May 28 j 20:48 27°**£**27'43 0°10'37 retrograde -4900 May 01 j 07:42 2°**2**33'21 18.42450 AU min. Earth dist. -4894 May 27 j 16:38 27°**△**30'32 18.79343 AU min. Earth dist. -4900 May 02 j 06:28 2°**£**31'03 0°33'17 -4894 Aug 12 j 22:12 25°**£**30'39 direct opposition -4900 Jul 17 j 21:01 -4894 Nov 10 j 22:12 direct 0°**£**32'01 28°**△**32'57 evening set -4900 Oct 17 j 03:29 evening set 3°**£**40'47 -4894 Nov 26 j 13:43 conjunction 29°**₽**27'24 0°07'53 -4900 Nov 01 j 16:55 -4894 Nov 26 j 13:43 conjunction 4°**2**36'13 0°28'29 minimum elong 29°**₽**27'24 0°07'48 minimum elong -4900 Nov 01 j 16:55 4°**2**36'13 0°28'29 behind sun begin -4894 Nov 26 j 07:48 29°**£**26'33 max. Earth dist. -4900 Nov 02 j 17:31 4°**♀**39'54 20.45872 AU behind sun end -4894 Nov 26 j 19:38 29°**£**28'14 morning rise -4900 Nov 17 j 07:28 5°**£**31'51 max. Earth dist. -4894 Nov 27 j 19:46 29°**2**31'47 20.81782 AU retrograde -4899 Feb 18 j 11:22 8°**£**44'01 -4894 Dec 05 j 21:18 0°M -4894 Dec 12 j 07:52 opposition -4899 May 06 j 22:46 6°**₽**44'14 0°29'47 morning rise 0°M22'14 min. Earth dist. -4899 May 05 j 22:17 6°**≏**46'42 18.49278 AU retrograde -4893 Mar 16 j 04:51 3°M31'29 direct -4899 Jul 22 j 12:08 4°**£**45'37 min. Earth dist. -4893 Jun 01 j 03:12 1°M34'58 18.84175 AU evening set -4899 Oct 21 j 11:53 7°**£**53'11 opposition -4893 Jun 02 j 08:26 1°M32'02 0°06'37 -4893 Jul 16 j 09:12 30°R<u>₽</u> conjunction -4899 Nov 06 j 01:19 8°**≏**48'25 0°25'17 direct -4893 Aug 17 j 08:50 29°**£**35'10 minimum elong -4899 Nov 06 j 01:19 8°**≏**48'25 0°25'16 -4893 Sep 17 j 11:04 0°M max. Earth dist. -4899 Nov 07 j 02:25 8°**£**52'09 20.52619 AU evening set -4893 Nov 15 j 03:42 2°M36'33 morning rise -4899 Nov 21 j 16:30 9°**£**43'53 retrograde -4898 Feb 22 j 23:19 12°**♀**55'33 conjunction -4893 Nov 30 j 19:34 3°M30'52 0°04'18 opposition -4898 May 11 j 14:23 10°**♀**55'52 0°26'08 minimum elong -4893 Nov 30 i 19:35 3°M30'52 0°04'09 min. Earth dist. -4898 May 10 j 12:58 10°**♀**58'26 18.55935 AU behind sun begin -4893 Nov 30 j 13:07 3°M29'57 direct -4898 Jul 27 i 00:33 8°**£**57'38 behind sun end -4893 Dec 01 i 02:02 3°M31'47 -4898 Oct 25 j 19:41 12°**♀**04'04 max. Earth dist. -4893 Dec 02 i 01:15 3°MJ35'11 20.86405 AU evening set -4893 Dec 16 j 14:38 morning rise 4°M,25'37 -4898 Nov 10 j 09:33 12°**£**59'07 0°21'57 -4892 Mar 19 j 13:40 conjunction retrograde 7°M-34'26 -4898 Nov 10 j 09:33 opposition -4892 Jun 05 j 19:28 12° \alpha 59'07 0°21'54 5°M,34'57 0°02'37 minimum elong -4892 Jun 04 j 14:39 max. Earth dist. -4898 Nov 11 j 12:50 13°**೨**03'10 20.59148 AU min. Earth dist. 5°M37'50 18.88610 AU morning rise -4898 Nov 26 j 01:04 -4892 Aug 20 j 16:27 13°**£**54'26 direct 3°M 38'13 -4897 Feb 27 j 11:26 -4892 Nov 18 j 08:40 17°**♀**05'35 6°M38'45 retrograde evening set -4897 May 15 j 02:08 15°**£**08'42 18.62323 AU min. Earth dist. -4892 Dec 04 j 01:21 -4897 May 16 j 04:56 15°**≏**06′01 0°22'23 conjunction 7°M32'59 0°00'38 opposition -4897 Jul 31 j 14:13 -4892 Dec 04 j 01:20 direct 13°**£**08'09 minimum elong 7°MJ32'59 0°00'29 -4897 Oct 30 j 03:09 -4892 Dec 03 j 18:48 evening set 16°**£**13′29 behind sun begin 7°M32'04 -4892 Dec 04 j 07:52 behind sun end 7°M33'54 -4897 Nov 14 j 17:08 -4892 Dec 05 j 08:25 conjunction 17°**♀**08'21 0°18'32 max. Earth dist. 7°M37'29 20.90653 AU minimum elong -4897 Nov 14 j 17:08 17°**△**08'21 0°18'28 morning rise -4892 Dec 19 j 21:03 8°M27'39 max. Earth dist. -4897 Nov 15 j 20:25 17°**♀**12'23 20.65379 AU desc. node -4891 Feb 04 j 20:44 10°M43'21 -4897 Nov 30 j 09:23 18°**ഫ**03'32 retrograde -4891 Mar 23 j 22:40 11°M36'04 morning rise retrograde -4896 Mar 02 j 22:28 21°**♀**14'12 min. Earth dist. -4891 Jun 08 j 23:42 9° M 39'32 18.92677 AU -4896 May 19 j 19:01 19°**♀**14'42 0°18'31 -4891 Jun 10 j 05:39 9°M36'32 -0°01'22 opposition opposition -4896 May 18 j 15:56 19°**£**17'25 18.68395 AU -4891 Aug 25 j 01:51 7°M39'57 min. Earth dist. direct -4896 Aug 04 j 00:52 17°**♀**17'09 -4891 Nov 22 j 13:26 10°M39'42 direct evening set -4896 Nov 02 j 09:52 20°**£**21'26 evening set -4891 Dec 08 i 06:37 conjunction 11°M33'51 -0°03'03 -4896 Nov 18 i 00:22 -4891 Dec 08 i 06:37 conjunction 21°**♀**16'08 0°15'02 minimum elong 11°MJ33'51 0°03'14 minimum elong -4896 Nov 18 i 00:22 21°**♀**16′08 0°14'57 behind sun begin -4891 Dec 08 i 00:05 11°M32'56 behind sun begin -4896 Nov 17 i 21:43 21° **2**15'46 behind sun end -4891 Dec 08 i 13:08 11°M34'46 behind sun end -4896 Nov 18 i 03:01 21°**♀**16'31 max. Earth dist. -4891 Dec 09 i 13:19 11°ML38'17 20.94545 AU -4896 Nov 19 i 05:23 21°**2**20'25 20.71259 AU morning rise -4891 Dec 24 j 03:21 12°M28'29 max. Earth dist. -4896 Dec 03 j 17:04 22°**£**11'11 -4890 Feb 17 j 06:18 15°M morning rise -4895 Mar 07 j 09:10 25°**₽**21'23 -4890 Mar 28 j 06:40 15°M36'31 retrograde retrograde min. Earth dist. -4895 May 23 j 03:56 23°**2**24'47 18.74073 AU -4890 May 07 j 08:59 15°RM -4895 May 24 j 08:17 23°**₽**21'56 0°14'36 min. Earth dist. -4890 Jun 13 j 09:58 13°M39'54 18.96414 AU opposition 13°M36'58 -0°05'20 -4895 Aug 08 j 12:59 21°**2**24'40 opposition -4890 Jun 14 j 15:19 direct -4895 Nov 06 j 16:22 24°**£**27'56 direct -4890 Aug 29 j 07:47 11°ML40'30 evening set -4890 Nov 26 j 17:53 14°M39'34 evening set -4895 Nov 22 j 07:10 25°**2**22'29 0°11'29 -4890 Dec 02 j 17:59 15°M conjunction minimum elong -4895 Nov 22 j 07:10 25°**£**22'29 0°11'23 -4890 Dec 12 j 11:56 behind sun begin -4895 Nov 22 j 02:20 25°**₽**21'48 conjunction 15°ML33'39 -0°06'37 behind sun end -4895 Nov 22 j 11:59 25°**2**23'11 minimum elong -4890 Dec 12 j 11:56 15°M33'39 0°06'47 max. Earth dist. -4895 Nov 23 j 11:50 25°**£**26'41 20.76729 AU behind sun begin -4890 Dec 12 j 05:48 15°M32'48 morning rise -4895 Dec 08 j 00:43 26°**£**17'25 behind sun end -4890 Dec 12 j 18:04 15°M34'31 retrograde -4894 Mar 11 j 19:16 29°**₽**27'09 max. Earth dist. -4890 Dec 13 j 19:49 15°M38'15 20.98113 AU

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Earth dist. 11°**∡**′25'38 19.12229 AU opposition -4883 Sep 25 j 21:48 9°**∡**¹27'08 -4889 Sep 02 j 15:48 direct 15°M40'04 direct -4889 Nov 30 j 22:17 -4883 Dec 24 j 00:28 12°**х** 23′50 evening set 18°M38'33 evening set -4882 Jan 09 j 00:22 13°**∡**18′00 -0°29′31 conjunction -4889 Dec 16 j 16:54 19°MJ32'35 -0°10'07 conjunction -4882 Jan 09 j 00:21 minimum elong -4889 Dec 16 j 16:54 19°M32'35 0°10'18 minimum elong 13°**∡**18′00 0°29'45 behind sun begin -4889 Dec 16 j 11:39 19°M31'51 max. Earth dist. -4882 Jan 10 j 04:41 13°**尽**22'02 21.12420 AU behind sun end -4889 Dec 16 j 22:08 19°M33'19 morning rise -4882 Jan 25 j 04:40 14°**∡**12'47 -4882 Apr 29 j 23:10 max. Earth dist. -4889 Dec 18 j 00:10 19°M37'05 21.01350 AU retrograde 17°**х** 19'33 -4882 Jul 16 j 01:19 morning rise -4888 Jan 01 j 15:23 20° M $_{2}7'09$ min. Earth dist. 15°**✗**22'45 19.12563 AU retrograde -4888 Apr 04 j 22:45 23°M34'36 opposition -4882 Jul 17 j 02:36 15°**≯**20'12 -0°34'14 min. Earth dist. -4888 Jun 21 j 03:03 21°MJ38'01 19.02896 AU direct -4882 Sep 30 j 01:19 13°**х** 24′27 opposition -4888 Jun 22 j 08:32 21°M35'03 -0°13'06 evening set -4882 Dec 28 j 05:30 16°**х** 21'07 direct -4888 Sep 05 j 20:34 19°M38'51 evening set -4888 Dec 04 j 02:15 22°M36'50 conjunction -4881 Jan 13 j 06:30 17°**∡**15'22 -0°32'21 minimum elong -4881 Jan 13 j 06:30 17°**∡**15′22 0°32'36 conjunction -4888 Dec 19 j 21:50 23°M30'51 -0°13'33 max. Earth dist. -4881 Jan 14 j 10:15 17°**∡**19'19 21.12457 AU minimum elong -4888 Dec 19 j 21:50 23°M30'51 0°13'45 morning rise -4881 Jan 29 j 11:38 18°**∡**10′13 behind sun begin -4888 Dec 19 j 18:17 23°M30'21 retrograde -4881 May 04 i 08:38 21° х 16′59 behind sun end -4888 Dec 20 j 01:23 23°M31'21 min. Earth dist. -4881 Jul 20 i 07:34 19°**₹**20'06 19.12292 AU max. Earth dist. -4888 Dec 21 i 06:03 23°M35'28 21.04260 AU opposition -4881 Jul 21 i 08:30 19°**х** 17'36 -0°37'16 morning rise -4887 Jan 04 j 21:07 24°M25'25 -4881 Oct 04 j 06:53 17°**х** 21′46 direct -4887 Apr 09 j 07:27 evening set -4880 Jan 01 j 10:51 20°**х** 18′27 retrograde 27°M-32'38 -4887 Jun 25 j 10:08 min. Earth dist. 25°M,36'10 19 05621 AU -4887 Jun 26 j 16:25 25°M33'08 -0°16'53 -4880 Jan 17 j 12:42 21°×12'48 -0°35'01 conjunction opposition -4887 Sep 10 j 03:13 -4880 Jan 17 j 12:42 23°M37'04 21°**₹**12'48 0°35'16 direct minimum elong -4887 Dec 08 j 06:31 -4880 Jan 18 j 14:19 21° 🖍 16'26 21.11894 AU 26°M34'37 max. Earth dist. evening set -4880 Feb 02 j 18:58 morning rise 22°**₹**07'45 -4887 Dec 24 j 02:48 -4880 May 07 j 15:10 conjunction 27°M28'38 -0°16'57 25°**х** 14'31 retrograde -4887 Dec 24 j 02:48 27°M28'38 0°17'08 -4880 Jul 24 j 14:26 23°**х** 15′03 -0°40′08 minimum elong opposition -4887 Dec 25 j 10:03 -4880 Jul 23 j 15:53 23°**₹**17'20 19.11445 AU max. Earth dist. 27°M33'06 21.06797 AU min. Earth dist. -4886 Jan 09 j 03:12 -4880 Oct 07 j 09:55 morning rise 28°M23'13 direct 21°×19'06 -4886 Feb 09 j 17:16 -4879 Jan 04 j 16:12 0°**⊼** evening set 24°**₹**15'51 retrograde -4886 Apr 13 j 14:46 1°**х** 30′16 -4886 Jun 18 j 17:23 30°RML conjunction -4879 Jan 20 j 19:14 25°**х** 10′19 -0°37′31 opposition -4886 Jun 30 j 23:52 29°M30'48 -0°20'35 minimum elong -4879 Jan 20 j 19:14 25°**х** 10′19 0°37′46 min. Earth dist. -4886 Jun 29 j 18:56 29°M33'42 19.07968 AU max. Earth dist. -4879 Jan 21 j 20:16 25° ₹ 13'52 21.10780 AU direct -4886 Sep 14 j 07:22 27°M34'51 morning rise -4879 Feb 06 j 02:25 26°**₹**05'23 -4886 Dec 02 j 15:39 -4879 May 12 j 00:50 29°**∡**12'11 0°×7 retrograde -4886 Dec 12 j 10:41 0°**∡**³32'05 -4879 Jul 28 j 19:59 27°**∡**12'36 -0°42'48 evening set opposition -4879 Jul 27 j 21:53 27°**✓**14'50 19.10058 AU min. Earth dist. -4886 Dec 28 j 08:00 1°**∡**¹26'07 -0°20'15 -4879 Oct 11 j 15:52 25°**х** 16′29 conjunction direct minimum elong -4886 Dec 28 i 07:59 1°**х** 26′07 0°20′28 evening set -4878 Jan 08 i 22:12 28°**х** 13′23 max. Earth dist. -4886 Dec 29 i 15:40 1° ₹30'38 21.08936 AU -4878 Jan 25 i 02:06 29°**х** 07'59 -0°39'51 morning rise -4885 Jan 13 i 09:13 2°×20'43 conjunction retrograde -4885 Apr 17 j 23:30 5°**х** 27′38 minimum elong -4878 Jan 25 i 02:06 29°**х**¹07'59 0°40'07 min. Earth dist. -4885 Jul 04 j 01:35 3°**∡**31'10 19.09880 AU max. Earth dist. -4878 Jan 26 i 00:55 29° ₹11'13 21.09144 AU -4885 Jul 05 j 06:53 3°**₹**28'14 -0°24'11 -4878 Feb 09 i 11:31 0°궁 opposition morning rise -4885 Sep 18 j 12:47 1°×32'23 -4878 Feb 10 j 10:23 0°**云**03'10 direct -4885 Dec 16 j 15:03 4°**∡**¹29'22 -4878 May 16 j 07:14 3°₹10'02 evening set retrograde min. Earth dist. -4878 Aug 01 j 05:45 1°る12'20 19.08192 AU conjunction -4884 Jan 01 j 13:03 5°**х** 23′26 -0°23′27 opposition -4878 Aug 02 j 01:23 1°る10'20 -0°45'16 minimum elong -4884 Jan 01 j 13:03 5° **2**3'26 0°23'40 -4878 Sep 02 j 00:54 30°R*x*7 29°**х** 14′00 -4884 Jan 02 j 19:21 5°**≯**27'45 21.10613 AU -4878 Oct 15 j 18:40 max. Earth dist. direct -4884 Jan 17 j 15:22 6°**х** 18′04 -4878 Nov 27 j 12:56 0°정 morning rise -4884 Apr 21 j 06:52 9°**х** 24′56 -4877 Jan 13 j 04:19 2°る11'09 retrograde evening set -4884 Jul 07 j 10:14 min. Earth dist. 7°**∡**28'19 19.11319 AU -4877 Jan 29 j 09:24 3°る05'53 -0°41'59 opposition -4884 Jul 08 j 13:48 7°**х** 25'34 -0°27'41 conjunction direct -4884 Sep 21 j 16:39 5°**х** 29'47 minimum elong -4877 Jan 29 j 09:24 3°る05'53 0°42'14 evening set -4884 Dec 19 j 19:33 8°**х** 26′36 max. Earth dist. -4877 Jan 30 j 07:31 3°る09'01 21.07062 AU morning rise -4877 Feb 14 j 18:31 4°る01'13 conjunction -4883 Jan 04 j 18:38 9°×20'42 -0°26'33 retrograde -4877 May 20 j 16:28 7°**る**08'11 minimum elong -4883 Jan 04 j 18:38 9°**∡**20'42 0°26'47 -4877 Aug 05 j 11:23 5°る10'19 19.05896 AU min. Earth dist.

max. Earth dist.

-4883 Jan 06 j 00:53

9°**₹**25'01 21.11797 AU

opposition

-4877 Aug 06 j 06:39

5°る08'22 -0°47'31

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Earth dist. -4870 Sep 02 j 16:47 3°≈17'44 18.79906 AU morning rise -4876 Feb 19 j 03:00 7°**る**59'39 direct -4870 Nov 16 j 11:40 1°≈18'57 retrograde -4876 May 23 j 23:47 11°**る**06'47 evening set -4869 Feb 15 j 02:27 4°≈20'58 opposition -4876 Aug 09 j 12:06 9°**ට**06'51 -0°49'33 min. Earth dist. -4876 Aug 08 j 19:14 9°る08'35 19.03219 AU conjunction -4869 Mar 03 j 15:29 5°≈17'24 -0°51'16 direct -4876 Oct 23 j 03:51 7°る10'06 minimum elong -4869 Mar 03 j 15:29 5°≈17'24 0°51'29 -4875 Jan 20 j 17:53 10°る07'58 -4869 Mar 03 j 22:13 evening set max. Earth dist. 5°≈18'22 20.77343 AU morning rise -4869 Mar 20 j 07:26 6°≈14'16 conjunction -4875 Feb 06 j 01:01 11°る03'02 -0°45'39 retrograde -4869 Jun 22 j 22:14 9°≈23'42 minimum elong -4875 Feb 06 j 01:01 11°る03'02 0°45'54 opposition -4869 Sep 07 j 06:08 7°≈23'21 -0°56'49 max. Earth dist. -4875 Feb 06 j 20:06 11°る05'44 21.01718 AU min. Earth dist. -4869 Sep 07 j 00:55 7°≈23'54 18.74695 AU morning rise -4875 Feb 22 j 12:01 11°る58'40 direct -4869 Nov 20 j 19:44 5°≈24'56 retrograde -4875 May 28 j 09:06 15°る05'59 evening set -4868 Feb 19 j 14:35 8°≈27'52 opposition -4875 Aug 13 j 17:19 13°る05'58 -0°51'21 min. Earth dist. -4875 Aug 13 j 00:54 13°る07'39 19.00191 AU conjunction -4868 Mar 07 j 04:27 9°≈24'34 -0°51'20 11°**る**09'00 direct -4875 Oct 27 j 09:41 minimum elong -4868 Mar 07 j 04:27 9°≈24'34 0°51'32 evening set -4874 Jan 25 i 01:38 14°る07'21 max. Earth dist. -4868 Mar 07 i 08:14 9°≈25'07 20.71914 AU morning rise -4868 Mar 23 j 21:08 10°≈21'41 conjunction -4874 Feb 10 i 09:40 15°**ප**02'36 -0°47'10 retrograde -4868 Jun 26 i 08:39 13°≈31'33 -4874 Feb 10 i 09:40 15°る02'36 0°47'25 opposition -4868 Sep 10 j 13:40 11°≈31'07 -0°56'45 minimum elong -4874 Feb 11 j 02:23 15°る04'59 20.98518 AU -4868 Sep 10 j 11:40 11°≈31'20 18.69057 AU max. Earth dist. min. Earth dist. -4874 Feb 26 j 21:42 15°る58'25 -4868 Nov 24 j 02:05 morning rise direct 9°≈32'21 -4874 Jun 01 j 17:24 19°**る**05'59 evening set -4867 Feb 23 i 03:36 12°≈36'16 retrograde 17°**ප**05'53 -0°52'55 -4874 Aug 17 j 22:55 opposition -4874 Aug 17 j 09:02 17°る07'19 18.96826 AU -4867 Mar 11 j 18:27 13°≈33'14 -0°51'07 min. Earth dist. conjunction -4874 Oct 31 j 13:24 -4867 Mar 11 j 18:27 15°る08'42 minimum elong 13°≈33'14 0°51'18 direct -4873 Jan 29 j 09:47 18°**る**07'37 max. Earth dist. -4867 Mar 11 j 19:51 13°≈33'26 20.66085 AU evening set 14°**≈**30'35 -4867 Mar 28 j 11:45 morning rise -4873 Feb 14 j 18:57 19°る03'05 -0°48'28 -4867 Apr 06 j 08:54 conjunction 15°≈ -4873 Feb 14 j 18:56 19°る03'05 0°48'43 -4867 Jun 30 j 22:06 minimum elong retrograde 17°≈40'55 -4873 Feb 15 j 10:33 19°る05'18 20.94994 AU -4867 Sep 14 j 21:20 max. Earth dist. opposition 15°≈40'21 -0°56'23 -4873 Mar 03 j 07:44 -4867 Sep 14 j 20:41 morning rise 19°**る**59'05 min. Earth dist. 15°≈40'25 18.63029 AU retrograde -4873 Jun 06 j 03:26 23°**る**06'57 -4867 Oct 01 j 06:20 15°R≈ -4873 Aug 22 j 04:29 21°る06'48 -0°54'14 direct -4867 Nov 28 j 12:04 13°≈41'11 opposition min. Earth dist. -4873 Aug 21 j 15:12 21°る08'10 18.93128 AU -4866 Jan 23 j 23:01 15°**≈** -4873 Nov 04 j 19:12 19°**る**09'24 evening set -4866 Feb 27 j 17:34 16°≈46'08 direct -4872 Feb 02 j 18:47 22°る08'59 evening set -4866 Mar 16 j 09:11 17°≈43'24 -0°50'38 conjunction -4872 Feb 19 j 04:49 23°る04'40 -0°49'32 -4866 Mar 16 j 09:11 17°≈43'24 0°50'49 conjunction minimum elong -4872 Feb 19 j 04:49 23°る04'40 0°49'47 max. Earth dist. -4866 Mar 16 j 07:42 17°≈43'11 20.59878 AU minimum elong -4872 Feb 19 i 17:57 23°**ප්**06'32 20.91131 AU max. Earth dist. morning rise -4866 Apr 02 i 03:02 18°≈40'59 -4866 Jul 05 i 08:58 morning rise -4872 Mar 06 i 18:33 24°る00'52 retrograde 21°≈51'47 retrograde -4872 Jun 09 j 12:31 27°る09'04 opposition -4866 Sep 19 i 05:42 19°≈51'04 -0°55'42 opposition -4872 Aug 25 j 10:28 25°る08'52 -0°55'18 min. Earth dist. -4866 Sep 19 i 08:10 19°≈50'49 18.56663 AU min. Earth dist. -4872 Aug 24 j 23:57 25°る09'58 18.89096 AU direct -4866 Dec 02 j 19:42 17°≈51'30 -4872 Nov 07 j 23:45 23°る11'15 -4865 Mar 04 j 08:03 20°≈57'31 direct evening set -4871 Feb 06 j 04:23 26°**ට**11'34 evening set -4865 Mar 21 j 00:29 21°≈55'03 -0°49'52 conjunction conjunction -4871 Feb 22 j 15:33 27°る07'30 -0°50'22 minimum elong -4865 Mar 21 j 00:29 21°≈55'03 0°50'02 minimum elong -4871 Feb 22 j 15:33 27°る07'30 0°50'37 max. Earth dist. -4865 Mar 20 j 20:39 21°≈54'30 20.53382 AU max. Earth dist. -4871 Feb 23 j 03:11 27°る09'09 20.86932 AU morning rise -4865 Apr 06 j 18:50 22°≈52'53 -4871 Mar 11 j 06:03 28°る03'55 retrograde -4865 Jul 09 j 23:10 26°≈04'11 morning rise -4871 Apr 19 j 08:18 -4865 Sep 23 j 14:20 0°≈ opposition 24°≈03'18 -0°54'44 -4871 Jun 13 j 23:51 -4865 Sep 23 j 17:59 retrograde 1°≈12'30 min. Earth dist. 24°≈02'55 18.50042 AU -4865 Dec 07 j 06:55 -4871 Aug 09 j 21:37 30°Rる direct 22°≈03'18 -4871 Aug 29 j 16:37 -4864 Mar 07 j 23:31 opposition 29°る12'16 -0°56'05 evening set 25°≈10'25 min. Earth dist. -4871 Aug 29 j 07:04 29°る13'15 18.84701 AU direct -4871 Nov 12 j 06:18 27°る14'24 conjunction -4864 Mar 24 j 16:39 26°≈08'16 -0°48'50 -4870 Feb 05 j 22:30 0°≈ minimum elong -4864 Mar 24 j 16:39 26°≈08'16 0°49'01 evening set -4870 Feb 10 j 15:05 0°≈15'33 max. Earth dist. -4864 Mar 24 j 10:24 26°≈07'21 20.46652 AU -4864 Apr 10 j 11:24 27°≈06'21 morning rise

-4870 Feb 27 j 03:05

conjunction

1°≈11'43 -0°50'57

-4864 Jun 16 j 20:30

0°)

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Attention, astronomical year style is used: The year -4864 in astronomical counting style is the year 4865 BCE in historical counting style. retrograde -4864 Jul 13 j 11:13 0°**)** 18′08 max. Earth dist. -4857 Apr 25 j 10:57 26°\(\mathbf{2}7'45\) 19.98426 AU -4864 Aug 09 j 08:04 30°R≈ 28°≈17'06 -0°53'27 opposition -4864 Sep 26 j 23:35 -4857 Apr 26 j 08:40 26°\ 30'59 -0°34'15 conjunction -4864 Sep 27 j 06:06 28°≈16'25 18.43232 AU -4857 Apr 26 j 08:40 min. Earth dist. minimum elong 26°**)** 30′59 0°34′17 -4857 May 13 j 04:13 -4864 Dec 10 j 16:03 27°\ 30'51 direct 26°≈16'39 morning rise $0^{\circ}\Upsilon$ -4857 Jul 02 j 21:26 evening set -4863 Mar 12 j 15:46 29°≈24'57 -4857 Aug 14 j 07:13 0°**Υ**46'42 -4863 Mar 22 j 19:21 0°**∀** retrograde -4857 Sep 26 j 05:06 30°**₹** -4857 Oct 27 j 10:52 conjunction -4863 Mar 29 j 09:36 0° **★**23'05 -0°47'32 opposition 28°\(\pm\)45'01 -0°36'23 minimum elong -4863 Mar 29 j 09:36 0°**¥**23'05 0°47'41 min. Earth dist. -4857 Oct 28 j 05:01 28°**¥**43'03 17.95085 AU max. Earth dist. -4863 Mar 29 j 00:53 0°**₭**21'49 20.39784 AU direct -4856 Jan 10 j 12:52 26°**)**41'49 -4863 Apr 15 j 04:48 -4856 Apr 13 j 11:20 29°**米**59'19 morning rise 1°**米**21′26 evening set -4863 Jul 18 j 02:25 -4856 Apr 13 j 15:58 $0^{\circ}\Upsilon$ retrograde 4°**)**€33'44 opposition -4863 Oct 01 j 09:17 2°**)** 32'33 -0°51'53 max. Earth dist. -4856 Apr 29 j 08:54 0°**Υ**56'06 19.91739 AU min. Earth dist. -4863 Oct 01 j 16:53 2°**₭**31'45 18.36309 AU direct -4863 Dec 15 j 04:09 0°\ 31'39 conjunction -4856 Apr 30 j 07:41 0°Y59'31 -0°31'10 evening set -4862 Mar 17 j 08:57 3°**)** 41′09 minimum elong -4856 Apr 30 j 07:42 0°**Y**59'31 0°31'11 morning rise -4856 May 17 j 02:49 1°Y59'35 conjunction -4862 Apr 03 j 03:22 4°**)** (39'35 -0°45'58 retrograde -4856 Aug 18 j 01:23 5°Y16'02 minimum elong -4862 Apr 03 j 03:22 4°**)** € 39'35 0°46'06 opposition -4856 Oct 31 j 02:00 3°Y14'18 -0°32'51 max. Earth dist. -4862 Apr 02 j 16:38 4°**)** 38'01 20.32813 AU min. Earth dist. -4856 Oct 31 j 22:14 3°Υ12'07 17.88429 AU morning rise -4862 Apr 19 j 22:43 5° ¥38'11 direct -4855 Jan 14 i 04:57 1°Y10'45 retrograde -4862 Jul 22 i 16:04 8° **)** 51'03 evening set -4855 Apr 18 j 11:13 4°Y29'37 opposition -4862 Oct 05 i 19:43 6°\(\)49'43 -0°50'01 max. Earth dist. -4855 May 04 j 05:26 5°**Υ**26'08 19.85116 AU min. Earth dist. -4862 Oct 06 j 05:52 6°**)** 48'38 18.29323 AU -4862 Dec 19 j 14:40 4° ¥ 48'24 -4855 May 05 j 07:24 5°Y30'03 -0°27'53 direct conjunction -4861 Mar 22 j 02:59 7°**¥**59'10 -4855 May 05 j 07:24 5°Υ30'03 0°27'52 minimum elong evening set -4855 May 22 j 02:19 6°**Y**30'21 morning rise -4855 Aug 22 j 21:35 -4861 Apr 07 j 21:53 8°**)** 57'53 -0°44'08 9°Y47'22 conjunction retrograde -4855 Nov 04 j 18:03 -4861 Apr 07 j 21:53 7° Y 45'33 -0°29'05 minimum elong 8°\frac{115}{15} opposition -4861 Apr 07 j 08:37 -4855 Nov 05 j 15:47 7°**Υ**43'12 17.81849 AU max. Earth dist. 8°**¥**55'57 20.25834 AU min. Earth dist. 9°**¥**56'45 -4861 Apr 24 j 17:31 -4854 Jan 18 j 23:47 5°Y41'38 direct morning rise -4861 Jul 27 j 08:50 9°**Y**01'49 13°**₩**10'11 -4854 Apr 23 j 11:39 retrograde evening set 9°Υ58'28 19.78569 AU -4861 Oct 10 j 06:44 11°**)** 08'44 -0°47'51 -4854 May 09 j 05:09 opposition max. Earth dist. -4861 Oct 10 j 17:50 11°**米**07'33 18.22356 AU min. Earth dist. -4854 May 10 j 07:51 10°**Y**′02'31 -0°24'23 direct -4861 Dec 24 j 03:55 9°**)**(07'00 conjunction 10° **Y** 02'31 $0^{\circ}24'22$ -4854 May 10 j 07:51 evening set -4860 Mar 25 j 21:48 12°**升** 19′03 minimum elong morning rise -4854 May 27 j 02:07 11°**Y**02'59 conjunction -4860 Apr 11 j 17:14 13°¥18'05 -0°42'03 retrograde -4854 Aug 27 j 16:56 14°\bar{\gamma}20'33 -4860 Apr 11 j 17:14 13°¥18'05 0°42'08 opposition -4854 Nov 09 j 10:59 12°Υ18'40 -0°25'07 minimum elong max. Earth dist. -4860 Apr 11 j 02:24 13°**光**15'54 20.18877 AU min. Earth dist. -4854 Nov 10 j 10:16 12°**Y**16′08 17.75358 AU -4860 Apr 28 j 12:53 14°**)**€ 17'12 -4853 Jan 23 j 18:50 10°**Y**14'22 morning rise direct -4860 Jul 31 j 00:10 17°**)** 31'13 -4853 Apr 28 j 12:58 13°Y35'50 retrograde evening set -4860 Oct 13 j 18:38 15°**)** 29'41 -0°45'24 max. Earth dist. -4853 May 14 j 03:13 14°**Υ**32'15 19.72157 AU opposition -4860 Oct 14 j 08:04 15°**¥**28'15 18.15425 AU min. Earth dist. -4853 May 15 i 08:47 14° \bar{\gamma} 36'45 -0° 20' 44 direct -4860 Dec 27 i 15:41 13°**)**(27'34 conjunction evening set -4859 Mar 30 j 17:49 16°**)** 40′58 minimum elong -4853 May 15 i 08:47 14°**Υ**36'45 0°20'41 15°**Y**37'25 morning rise -4853 Jun 01 i 02:39 conjunction -4859 Apr 16 j 13:32 17°**)**(40'17 -0°39'42 retrograde -4853 Sep 01 i 13:16 18°**Y**55'31 -4859 Apr 16 i 13:32 17°**¥**40′17 0°39′47 opposition -4853 Nov 14 i 04:36 16°Υ53'31 -0°20'57 minimum elong -4859 Apr 15 i 19:58 17°**)** € 37'41 20.11990 AU min. Earth dist. -4853 Nov 15 j 05:22 16°Υ50'49 17.69046 AU max. Earth dist. -4859 May 03 j 09:20 18°**)** 39'39 direct -4852 Jan 28 j 15:05 14°**Y**48'49 morning rise -4859 Aug 04 j 18:37 21°\ 54'16 -4852 May 02 j 14:43 18°**Y**11'32 retrograde evening set -4859 Oct 18 j 07:06 19°**Ƴ**08'07 19.65943 AU opposition 19°**)** 52'41 -0°42'40 max. Earth dist. -4852 May 18 j 04:35 min. Earth dist. -4859 Oct 18 j 21:40 19°**升**51'07 18.08574 AU -4858 Jan 01 j 06:32 17°**米**50'11 conjunction -4852 May 19 j 10:24 19°**Y**12'40 -0°16'55 direct -4858 Apr 04 j 14:45 21°**)** 04'57 minimum elong -4852 May 19 j 10:24 19°**Y**12'40 0°16'51 evening set -4852 Jun 05 j 03:31 20°**Y**13′29 morning rise -4858 Apr 21 j 10:50 22°**₭**04'35 -0°37'06 -4852 Sep 05 j 10:10 23°**Y**32'05 conjunction retrograde -4858 Apr 21 j 10:50 -4852 Nov 17 j 23:06 21°Y29'59 -0°16'38 minimum elong 22°**)** 04'35 0°37'08 opposition 21°**Υ**27'11 17.62950 AU max. Earth dist. -4858 Apr 20 j 16:00 22°**₭**01'47 20.05168 AU min. Earth dist. -4852 Nov 19 j 00:49 -4858 May 08 j 06:24 23°**)** 04'12 direct -4851 Feb 01 j 12:48 19°**Y**24′56 morning rise retrograde -4858 Aug 09 j 11:38 26°**¥**19′25 evening set -4851 May 07 j 17:20 22°\partial 48'50 opposition -4858 Oct 22 j 20:37 24°**)** 17'48 -0°39'40 max. Earth dist. -4851 May 23 j 04:17 23°**Y**45'14 19.59990 AU min. Earth dist. -4858 Oct 23 j 13:25 24°**₭**15'59 18.01791 AU -4857 Jan 05 j 20:05 22°**升**14'58 -4851 May 24 j 12:24 23°Y'50'09 -0°12'58 direct conjunction -4857 Apr 09 j 12:33 25°**¥**31′05 -4851 May 24 j 12:24 23°Y'50'09 0°12'53 evening set minimum elong

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Earth dist. 19°**8**35'10 17.35301 AU direct -4850 Feb 06 j 10:38 24°**Y**02'34 direct -4845 Mar 02 j 13:02 17°**8**31'37 27°**Y**27'37 evening set -4850 May 12 j 20:14 evening set -4845 Jun 06 j 16:12 21°**8**01'21 max. Earth dist. -4850 May 28 j 07:01 28°**Y**24'12 19.54387 AU max. Earth dist. -4845 Jun 21 j 22:18 21°**8**58'14 19.33851 AU conjunction -4850 May 29 j 14:53 28°**Y**29'06 -0°08'56 conjunction -4845 Jun 23 j 06:35 22°803'17 0°11'57 -4850 May 29 j 14:53 -4845 Jun 23 j 06:34 22°**8**03'17 minimum elong 28°**Y**′29′06 0°08'49 minimum elong 0°12'08 -4850 May 29 j 09:05 -4845 Jun 23 j 02:05 22°802'36 behind sun begin 28°**Y**28'14 behind sun begin behind sun end -4850 May 29 j 20:41 28°**Y**29'58 behind sun end -4845 Jun 23 j 11:04 22°803'59 morning rise -4850 Jun 15 j 06:26 29° Y 30'11 morning rise -4845 Jul 09 j 16:50 23°804'40 -4850 Jun 23 j 15:55 0°8 retrograde -4845 Oct 09 j 00:52 26°826'03 retrograde -4850 Sep 15 j 04:59 2°849'42 opposition -4845 Dec 21 j 06:05 24°**8**23'48 0°15'33 opposition -4850 Nov 27 j 14:25 0°847'25 -0°07'39 min. Earth dist. -4845 Dec 22 j 10:17 24°**8**20'44 17.32637 AU min. Earth dist. -4850 Nov 28 j 17:37 0°**8**44'27 17.51767 AU direct -4844 Mar 06 j 13:50 22°**8**17'12 -4850 Dec 16 j 03:37 30°RY evening set -4844 Jun 10 j 20:59 25°**8**47'38 direct -4849 Feb 11 j 10:31 28° **Y**41'41 max. Earth dist. -4844 Jun 26 j 02:12 26°**8**44'32 19.31475 AU -4849 Apr 08 i 03:58 0°8 evening set -4849 May 17 j 23:31 2°807'48 conjunction -4844 Jun 27 j 10:13 26°849'35 0°16'01 max. Earth dist. -4849 Jun 02 i 08:11 3°**と**04'17 19.49201 AU minimum elong -4844 Jun 27 i 10:13 26°**8**49'34 0°16'13 morning rise -4844 Jul 13 i 19:22 27°850'57 -4849 Jun 03 j 17:24 3°809'25 -0°04'50 -4844 Aug 22 j 09:00 conjunction 0°П -4849 Jun 03 j 17:24 3°809'25 0°04'43 -4844 Oct 13 j 02:19 1°**I**I12'36 minimum elong retrograde -4849 Jun 03 j 10:48 3°808'25 -4844 Dec 05 j 18:31 behind sun begin 30°R\ -4849 Jun 04 j 00:01 opposition -4844 Dec 25 j 06:33 behind sun end 3°**8**10'25 29°**8**10'27 0°20'03 -4849 Jun 20 j 08:08 -4844 Dec 26 j 09:25 morning rise 4°**8**10'37 min. Earth dist. 29°**8**07'31 17.30530 AU -4849 Sep 20 j 02:15 -4843 Mar 11 j 17:05 7°**8**30'34 direct 27°**8**03'49 retrograde -4849 Dec 02 j 11:18 -4843 Jun 06 j 10:42 5°**8**28'13 -0°03'01 $0^{\circ}\Pi$ opposition min. Earth dist. -4849 Dec 03 j 15:35 5°**8**25'07 17.46831 AU evening set -4843 Jun 16 j 01:48 0° II 34'49 -4848 Feb 16 j 09:34 3°**8**22'10 -4843 Jul 01 j 07:03 1°**Д**31'53 19.29628 AU direct max. Earth dist. -4848 May 22 j 03:14 evening set 6°**8**49'19 7°**8**45'59 19.44514 AU -4843 Jul 02 j 13:54 1°II36'45 0°20'00 max. Earth dist. -4848 Jun 06 j 11:42 conjunction -4843 Jul 02 j 13:54 minimum elong 1°**I**36'45 0°20'14 conjunction -4848 Jun 07 j 20:26 7°**8**51'03 -0°00'37 -4843 Jul 18 j 21:38 2°II38'03 morning rise -4848 Jun 07 j 20:27 7°**8**51'03 0°00'28 retrograde -4843 Oct 18 j 02:25 5°**Ⅲ**59'57 minimum elong -4848 Jun 07 j 13:43 7°**8**50'02 -4843 Dec 30 j 07:52 3°**Ц**57'53 0°24'27 behind sun begin opposition behind sun end -4848 Jun 08 j 03:11 7°**8**52'04 min. Earth dist. -4843 Dec 31 j 11:17 3°**П**54'54 17.28951 AU -4848 Jun 24 j 10:09 8°**8**52'20 -4842 Mar 16 j 19:31 1°**I**51'15 morning rise direct -4848 Jul 31 j 16:51 10°**8**53'46 -4842 Jun 21 j 06:41 5°**Ⅲ**22'42 asc. node evening set -4848 Sep 24 j 01:43 12°812'40 max. Earth dist. -4842 Jul 06 j 10:36 6°**Ⅱ**19'41 19.28309 AU retrograde -4848 Dec 06 j 08:45 opposition 10°810'17 0°01'38 -4842 Jul 07 i 17:25 6°**П**24'34 0°23'52 min. Earth dist. -4848 Dec 07 i 12:29 10°807'15 17.42407 AU conjunction direct -4847 Feb 20 i 11:00 8°804'01 minimum elong -4842 Jul 07 i 17:25 6°II24'34 0°24'05 evening set -4847 May 27 j 07:25 11°832'07 morning rise -4842 Jul 23 i 23:59 7°**I**25'48 retrograde -4842 Oct 23 i 03:37 10°**Ⅱ**47'52 -4847 Jun 12 j 23:43 12°**8**33'57 0°03'39 -4841 Jan 04 i 09:34 8°II45'52 0°28'40 conjunction opposition -4847 Jun 12 j 23:43 12°**8**33'57 0°03'48 min. Earth dist. -4841 Jan 05 j 11:26 8°**П**43'03 17.27885 AU minimum elong -4847 Jun 12 j 17:02 12°832'56 6°**Ⅲ**39'15 behind sun begin direct -4841 Mar 22 j 00:11 -4847 Jun 13 j 06:24 12°**8**34'58 -4841 Jun 26 j 11:10 10°**I**I1'00 behind sun end evening set 12°**8**28'46 19.40366 AU max. Earth dist. -4847 Jun 11 j 14:27 morning rise -4847 Jun 29 j 12:19 13°**8**35'17 conjunction -4841 Jul 12 j 20:48 11°**I**12'47 0°27'33 -4847 Jul 24 j 04:34 15°8 minimum elong -4841 Jul 12 j 20:48 11°**I**12'47 0°27'47 -4847 Sep 29 j 00:17 16°**8**56'00 max. Earth dist. -4841 Jul 11 j 15:47 11°**Д**08'11 19.27483 AU retrograde -4847 Dec 08 j 20:52 15°R -4841 Jul 29 j 01:55 12°**Ⅱ**13'56 morning rise 14°**8**53'37 0°06'18 -4841 Oct 28 j 03:38 15°**Ⅲ**36′05 opposition -4847 Dec 11 j 07:15 retrograde 14°**8**50'30 17.38560 AU -4840 Jan 09 j 11:54 13°**Ⅲ**34′09 min. Earth dist. -4847 Dec 12 j 11:48 opposition 0°32'41 12°**8**47'11 -4840 Jan 10 j 13:55 direct -4846 Feb 25 j 10:59 min. Earth dist. 13°**Ⅲ**31'20 17.27301 AU -4846 May 10 j 12:56 15°8 direct -4840 Mar 26 j 04:39 11°**Ⅲ**27'35 evening set -4846 Jun 01 j 11:39 16°**8**16'09 evening set -4840 Jun 30 j 15:42 14°**Ⅲ**59'29 max. Earth dist. -4846 Jun 16 j 18:19 17°**8**12'56 19.36816 AU conjunction -4840 Jul 16 j 23:51 16°**I**101'08 0°31'03 -4846 Jun 18 j 03:01 17°818'02 0°07'49 -4840 Jul 16 j 23:51 16°**Ⅱ**01'08 conjunction minimum elong 0°31'18

-4846 Jun 18 j 03:00

minimum elong

17°**8**18'02 0°07'59

max. Earth dist.

-4840 Jul 15 j 18:49

15°**Д**56'32 19.27147 AU

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Earth dist. 20°**I**45′09 19.27303 AU morning rise 20°923'53 23°5544'48 -4833 Dec 05 j 02:51 retrograde conjunction -4839 Jul 22 j 02:41 20°**I**I49'23 0°34'20 opposition -4832 Feb 17 j 12:14 21°9543'17 0°54'30 minimum elong -4839 Jul 22 j 02:40 20°**Ⅱ**49′23 0°34'34 min. Earth dist. -4832 Feb 17 j 23:53 21°**5**42'03 17.41976 AU morning rise -4839 Aug 07 j 05:09 21°**Ⅲ**50′16 direct -4832 May 04 j 18:45 19°937'53 -4839 Nov 06 j 03:57 retrograde 25°**Ⅲ**12'26 evening set -4832 Aug 08 j 05:30 23°906'26 opposition -4838 Jan 18 j 17:29 23°**Ⅲ**10′35 0°40'01 min. Earth dist. -4838 Jan 19 j 17:16 23°**Д**08'01 17.27614 AU conjunction -4832 Aug 24 j 03:22 24°9506'22 0°49'27 direct -4838 Apr 05 j 15:48 21°**I**I04'06 minimum elong -4832 Aug 24 j 03:22 24°9506'22 0°49'41 evening set -4838 Jul 10 j 23:10 24°**Ⅲ**35'54 max. Earth dist. -4832 Aug 23 j 15:23 24°9504'29 19.44119 AU max. Earth dist. -4838 Jul 26 j 02:29 25°**Д**33'05 19.27973 AU morning rise -4832 Sep 08 j 21:53 25°905'49 retrograde -4832 Dec 09 j 00:43 28°926'26 conjunction -4838 Jul 27 j 04:39 25°II37'14 0°37'22 opposition -4831 Feb 21 j 15:04 26°925'03 0°55'40 minimum elong -4838 Jul 27 j 04:39 25°**Ⅲ**37'14 0°37'38 min. Earth dist. -4831 Feb 22 j 01:03 26°9524'00 17.46441 AU morning rise -4838 Aug 12 j 06:01 26°**Ⅲ**37'59 direct -4831 May 09 j 20:33 24°520'02 -4838 Nov 09 j 17:45 0ಂತಾ evening set -4831 Aug 13 j 03:47 27°9547'43 -4838 Nov 11 j 04:17 0°9500'04 retrograde -4831 Aug 29 j 00:32 -4838 Nov 12 j 14:58 30°RⅡ conjunction 28°9547'22 0°50'21 -4837 Jan 23 j 20:33 27°II58'13 0°43'15 -4831 Aug 29 j 00:33 28°9547'22 0°50'35 opposition minimum elong -4837 Jan 24 j 18:32 27°**Д**55'51 17.28553 AU max. Earth dist. -4831 Aug 28 j 15:21 28°945'55 19.48848 AU min. Earth dist. -4837 Apr 10 j 21:21 -4831 Sep 13 j 18:10 29°9546'34 direct 25°T51'49 morning rise -4837 Jul 16 j 02:00 -4831 Sep 17 j 10:00 29°**Ⅲ**23'21 $0^{\circ}\Omega$ evening set -4831 Dec 14 j 00:36 -4837 Jul 25 j 19:52 000 retrograde 3°**Ω**06′50 -4837 Jul 31 j 07:03 0°520'49 19.29183 AU -4830 Feb 26 j 17:35 max. Earth dist. opposition $1^{\circ}\Omega_{05'37}$ $0^{\circ}56'28$ -4830 Feb 27 j 00:20 1°**Ω**04'54 17.51395 AU min. Earth dist. -4837 Aug 01 j 06:19 0°524'30 0°40'08 -4830 Mar 26 j 00:28 conjunction 30°R95 -4837 Aug 01 j 06:19 0°40'23 29°901'00 0°924'30 direct -4830 May 15 j 00:25 minimum elong -4837 Aug 17 j 06:18 1°9525'04 -4830 Jul 02 j 01:50 morning rise 0 \circ Ω -4837 Nov 16 j 04:02 -4830 Aug 18 j 01:08 retrograde 4°9546'58 evening set 2°**Ω**27'44 -4836 Jan 28 j 23:40 opposition 2°545'11 0°46'11 -4836 Jan 29 j 20:22 -4830 Sep 02 j 20:51 3°**Ω**27'06 0°50'54 min. Earth dist. 2°542'57 17.30030 AU conjunction -4836 Apr 15 j 02:17 0°938'52 minimum elong -4830 Sep 02 j 20:51 3°**Ω**27'06 0°51'08 direct -4836 Jul 20 j 04:21 4°9510'01 max. Earth dist. -4830 Sep 02 j 14:15 3°**Ω**26'04 19.54022 AU evening set max. Earth dist. -4836 Aug 04 j 08:55 5°507'26 19.30954 AU morning rise -4830 Sep 18 j 13:39 $4^{\circ}\Omega 26'02$ retrograde -4830 Dec 18 j 21:07 7°**Ω**45'56 -4836 Aug 05 j 07:12 5°9510'58 0°42'37 -4829 Mar 03 j 19:54 5°**Ω**44'53 0°56'53 conjunction opposition -4836 Aug 05 j 07:11 5°9510'58 min. Earth dist. -4829 Mar 04 j 01:18 5°Ω44'19 17.56771 AU minimum elong 0°42'52 -4836 Aug 21 j 06:05 6°9511'19 -4829 May 20 j 01:29 3°**Ω**40'42 morning rise direct -4836 Nov 20 j 03:57 9°533'03 -4829 Aug 22 j 21:47 7°**Ω**06'24 retrograde evening set -4835 Feb 02 i 02:56 opposition 7°531'16 0°48'47 -4829 Sep 07 i 16:28 min. Earth dist. -4835 Feb 02 j 21:44 7°529'15 17.32101 AU conjunction 8°Ω05'27 0°51'08 direct -4835 Apr 20 j 06:43 5°925'05 minimum elong -4829 Sep 07 i 16:28 8° Ω05'27 0°51'20 -4829 Sep 07 j 12:03 evening set -4835 Jul 25 j 05:42 8°955'44 max. Earth dist. 8°Ω04'46 19.59580 AU -4829 Sep 23 i 08:34 9°Ω04'08 morning rise -4835 Aug 10 j 07:20 9°556'27 0°44'48 -4829 Dec 23 j 19:44 12°Ω23'36 conjunction retrograde -4835 Aug 10 j 07:20 9°956'27 0°45'04 -4828 Mar 07 j 21:33 10°Ω22'43 0°56'56 minimum elong opposition -4828 Mar 07 j 23:45 -4835 Aug 09 j 12:19 9°553'26 19.33326 AU min. Earth dist. 10°**Ω**22'29 17.62478 AU max. Earth dist. -4835 Aug 26 j 04:56 8°**Ω**18′58 morning rise 10°956'36 direct -4828 May 24 j 04:51 retrograde -4835 Nov 25 j 03:50 14°9518'05 evening set -4828 Aug 26 j 17:34 11°**Ω**43'33 -4834 Feb 07 j 06:15 12°9516'22 0°51'03 opposition min. Earth dist. -4834 Feb 07 j 22:43 12°9514'36 17.34771 AU conjunction -4828 Sep 11 j 11:21 12°**Ω**42'19 0°51'01 10°9510'23 -4828 Sep 11 j 11:21 12°**Ω**42'19 0°51'13 direct -4834 Apr 25 j 11:27 minimum elong -4834 Jul 30 j 06:30 13°9540'25 -4828 Sep 11 j 09:42 12°**Ω**42'03 19.65428 AU evening set max. Earth dist. -4828 Sep 27 j 02:43 morning rise 13°**Ω**40'44 -4828 Oct 19 j 23:47 15°€ conjunction -4834 Aug 15 j 06:45 14°**©**40'53 0°46'40 minimum elong -4834 Aug 15 j 06:45 14°9540'53 0°46'55 retrograde -4828 Dec 27 j 14:45 16°**Ω**59'45 max. Earth dist. -4834 Aug 14 j 13:26 14°938'08 19.36313 AU opposition -4827 Mar 12 j 23:08 14°Ω59'01 0°56'36 morning rise -4834 Aug 31 j 03:19 15°5540'48 -4827 Mar 12 j 13:40 15°R€ retrograde -4834 Nov 30 j 02:52 19°902'01 min. Earth dist. -4827 Mar 13 j 00:07 14°**Ω**58'55 17.68456 AU -4833 Feb 12 j 09:19 17°9500'23 -4827 May 29 j 04:53 12°**Ω**55'41 opposition 0°52'57 direct -4833 Feb 12 j 23:52 -4827 Aug 08 j 15:07 15°**Ω** min. Earth dist. 16°558'49 17.38078 AU

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Attention, astronomi	cal year style is used: Th	e year -4827 i	n astronomical cou	inting style is the year	4828 BCE in historical co	ounting style.	.6.
evening set	-4827 Aug 31 j 12:22	16° Ω 19′05		max. Earth dist.	-4821 Oct 13 j 11:57	14° m 09'41	20.10839 AU
				morning rise	-4821 Oct 28 j 11:58	15° m 04'16	
conjunction	-4827 Sep 16 j 05:14	17° Ω 17'32		retrograde	-4820 Jan 28 j 21:01	18° m 19'16	
minimum elong	-4827 Sep 16 j 05:14	17° Ω 17'32		opposition	-4820 Apr 14 j 14:07	16° m 18'58	0°45'02
max. Earth dist.	-4827 Sep 16 j 05:22		19.71521 AU	min. Earth dist.	-4820 Apr 13 j 22:51		18.14309 AU
morning rise	-4827 Oct 01 j 20:08	18° Ω 15'41		direct	-4820 Jun 30 j 12:22	14° m) 18'14	
retrograde	-4826 Jan 01 j 12:08	21° Ω 34'13		evening set	-4820 Sep 30 j 20:50	17° m 32'13	
opposition	-4826 Mar 17 j 24:00	19° £ 33'36					
min. Earth dist.	-4826 Mar 17 j 21:43		17.74637 AU	conjunction	-4820 Oct 16 j 10:22	18° m) 28'37	
direct	-4826 Jun 03 j 06:41	17° Ω 30'40		minimum elong	-4820 Oct 16 j 10:22	18° m 28'37	
evening set	-4826 Sep 05 j 06:16	20° Ω 52′50		max. Earth dist.	-4820 Oct 17 j 03:12		20.17791 AU
	4926 C 20 : 22-20	210 050/50	0940140	morning rise	-4820 Oct 31 j 23:48	19° Mp 25'02	
conjunction	-4826 Sep 20 j 22:29	21° \O 50'59		retrograde	-4819 Feb 01 j 11:26	22° My 39'25	0942117
minimum elong max. Earth dist.	-4826 Sep 20 j 22:29 -4826 Sep 21 j 01:32	21° Ω 50′59	19.77779 AU	opposition min. Earth dist.	-4819 Apr 19 j 09:45 -4819 Apr 18 j 16:43	20° m/39'13	18.21305 AU
morning rise	-4826 Oct 06 j 12:48	21° Ω 48'52	19.77719 AU	direct	-4819 Jul 05 j 06:43	18° m) 38'55	18.21303 AU
retrograde	-4825 Jan 06 j 05:39	26°Ω06'52		evening set	-4819 Oct 05 j 08:04	21° m) 51'32	
opposition	-4825 Mar 23 j 00:13	24° Ω 06'21	0°54'53	evening set	-4017 Oct 05 J 00.04	21 hy 3132	
min. Earth dist.	-4825 Mar 22 j 20:53		17.80968 AU	conjunction	-4819 Oct 20 j 21:18	22° m) 47'41	0°36'48
direct	-4825 Jun 08 j 05:20	22° Ω 03'49	17.00700710	minimum elong	-4819 Oct 20 j 21:18	22° m) 47'41	
evening set	-4825 Sep 09 j 23:16	25° Ω 24'40		max. Earth dist.	-4819 Oct 21 j 15:13		20.24827 AU
evening see	1023 Бер 07 ј 23.10	23 002110		morning rise	-4819 Nov 05 j 11:04	23° m 43'53	20.21027110
conjunction	-4825 Sep 25 j 14:44	26° Ω 22'31	0°48'45	retrograde	-4818 Feb 06 j 03:30	26° Mp 57'42	
minimum elong	-4825 Sep 25 j 14:44	26° Ω 22'31		min. Earth dist.	-4818 Apr 23 j 09:03		18.28365 AU
max. Earth dist.	-4825 Sep 25 j 19:09		19.84177 AU	opposition	-4818 Apr 24 j 04:28	24° m 57'34	0°39'19
morning rise	-4825 Oct 11 j 04:49	27° Ω 20'09	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	direct	-4818 Jul 09 j 23:13	22° m 57'41	
morning rise	-4825 Dec 04 j 08:14	0° mp		evening set	-4818 Oct 09 j 18:28	26° Mp 09'01	
retrograde	-4824 Jan 11 j 01:29	0° m/37'34					
Č	-4824 Feb 19 j 03:55	30° ₽ Ω		conjunction	-4818 Oct 25 j 07:49	27° m 04'55	0°34'03
opposition	-4824 Mar 26 j 23:44	28° Ω 37'08	0°53'30	minimum elong	-4818 Oct 25 j 07:49	27° m 04'55	0°34'05
min. Earth dist.	-4824 Mar 26 j 17:16	28° Ω 37'48	17.87415 AU	max. Earth dist.	-4818 Oct 26 j 04:45	27° m 08'04	20.31883 AU
direct	-4824 Jun 12 j 04:22	26° Ω 34'57		morning rise	-4818 Nov 09 j 21:39	28° m 00'55	
evening set	-4824 Sep 13 j 15:04	29° Ω 54'28			-4818 Dec 17 j 21:25	0∘ ⊽	
	-4824 Sep 15 j 03:40	0° m		retrograde	-4817 Feb 10 j 16:47	1° £ 14'09	
					-4817 Apr 09 j 14:13	30°R, Mp	
conjunction	-4824 Sep 29 j 06:04	0° m 52′01	0°47'23	opposition	-4817 Apr 28 j 22:14	29° m 14'09	0°36'09
minimum elong	-4824 Sep 29 j 06:04	0° m 52'01	0°47'32	min. Earth dist.	-4817 Apr 28 j 01:18	29° m 16'17	18.35401 AU
max. Earth dist.	-4824 Sep 29 j 13:38		19.90672 AU	direct	-4817 Jul 14 j 15:37	27° My $14'42$	
morning rise	-4824 Oct 14 j 19:44	1° m 49'23			-4817 Oct 07 j 00:55	0∘ ত	
retrograde	-4823 Jan 14 j 18:06	5°№06'13		evening set	-4817 Oct 14 j 04:20	0° ჲ 24'46	
opposition	-4823 Mar 31 j 22:42	3° m 05'49	0°51'49				
min. Earth dist.	-4823 Mar 31 j 14:55		17.93961 AU	conjunction	-4817 Oct 29 j 17:31		0°31'08
direct	-4823 Jun 17 j 01:44	1° m 04'01		minimum elong	-4817 Oct 29 j 17:32	1° ≏ 20'26	0°31'08
evening set	-4823 Sep 18 j 06:02	4° Mp 22′08		max. Earth dist.	-4817 Oct 30 j 15:07		20.38889 AU
				morning rise	-4817 Nov 14 j 07:50	2° ≙ 16'14	
conjunction	-4823 Oct 03 j 20:24	5° m 19'23	0°45'45	retrograde	-4816 Feb 15 j 07:31	5° £ 28'56	
minimum elong	-4823 Oct 03 j 20:24	5° m 19'23	0°45'53	opposition	-4816 May 02 j 15:25	3° £ 29'03	0°32'48
max. Earth dist.	-4823 Oct 04 j 05:20		19.97281 AU	min. Earth dist.	-4816 May 01 j 16:45		18.42363 AU
morning rise	-4823 Oct 19 j 10:03	6° Mp 16'30		direct	-4816 Jul 18 j 06:10	1° £ 30′01	
retrograde	-4822 Jan 19 j 12:24	9° m/32'44	0040140	evening set	-4816 Oct 17 j 13:15	4° £ 38'52	
opposition	-4822 Apr 05 j 20:39	7° Mp 32'21	0°49'49		4016 N 02:02 41	50 0 2 4110	0020102
min. Earth dist.	-4822 Apr 05 j 09:49	7° Mp 33'28	18.00629 AU	conjunction	-4816 Nov 02 j 02:41	5° £ 34'19	0°28'03
direct	-4822 Jun 21 j 22:04	5° Mp 30'53		minimum elong	-4816 Nov 02 j 02:41		0°28'04
evening set	-4822 Sep 22 j 19:47	8° m) 47'37		max. Earth dist.	-4816 Nov 03 j 03:00	6° £ 29'57	20.45773 AU
conjunction	-4822 Oct 08 j 09:55	9° m 44'34	0°43'51	morning rise retrograde	-4816 Nov 17 j 17:12 -4815 Feb 18 j 19:56	ი ച 2937 9° Ω 42'07	
minimum elong	-4822 Oct 08 j 09:55	9° Mp 44'35	0°43'57	min. Earth dist.	-4815 May 06 j 07:48		18.49155 AU
max. Earth dist.	-4822 Oct 08 j 09:33		20.04000 AU	opposition	-4815 May 00 j 07:48	7° - 44'48 7° - 42'22	0°29'17
morning rise	-4822 Oct 08 j 22:12 -4822 Oct 23 j 23:20	9 11/4627 10° 11/41'27	20.07000 AU	direct	-4815 Jul 22 j 20:57	7 ≗ 42 22 5° ≗ 43'45	0 4/1/
retrograde	-4821 Jan 24 j 03:54	13° Mp 57'03		evening set	-4815 Oct 21 j 21:54	8° £ 51'25	
opposition	-4821 Apr 10 j 17:52	13 m/ 57 03 11° m/ 56'43	0°47'34		.010 000 21 j 21.04	5 -5125	
min. Earth dist.	-4821 Apr 10 j 05:28	11° m ₂ 50' 4 5	18.07406 AU	conjunction	-4815 Nov 06 j 11:20	9° ≏ 46'39	0°24'51
direct	-4821 Jun 26 j 18:06	9° m 55'37		minimum elong	-4815 Nov 06 j 11:20	9° ≏ 46'39	0°24'49
evening set	-4821 Sep 27 j 08:49	13° m) 10'57		max. Earth dist.	-4815 Nov 07 j 11:56		20.52459 AU
<i>3</i>	-r . j	4 ***		morning rise	-4815 Nov 22 j 02:28	10° Ω 42'08	
conjunction	-4821 Oct 12 j 22:26	14° m 07'38	0°41'43	retrograde	-4814 Feb 23 j 09:14	13° £ 53'48	
minimum elong	-4821 Oct 12 j 22:26	14° mp 07'38	0°41'48	opposition	-4814 May 11 j 23:28	11° ≙ 54'09	0°25'39
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Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4814 in astronomical counting style is the year 4815 BCE in historical counting style. min. Earth dist. -4814 May 10 j 22:24 11°**£**56'40 18.55727 AU max. Earth dist. -4809 Dec 02 j 11:24 4°MJ34'16 20.85373 AU -4814 Jul 27 j 09:47 9°**£**55'55 -4809 Dec 17 j 01:01 5°M24'46 direct morning rise -4814 Oct 26 j 05:49 13°**♀**02'26 -4808 Mar 19 j 23:59 8°MJ33'41 evening set retrograde -4808 Jun 05 j 00:41 min. Earth dist. 6°MJ37'02 18.87557 AU -4814 Nov 10 j 19:39 -4808 Jun 06 j 05:19 conjunction 13°**♀**57'30 0°21'31 opposition 6°M34'11 0°02'10 -4814 Nov 10 j 19:39 minimum elong 13°**♀**57'30 0°21'28 direct -4808 Aug 21 j 02:56 4°M37'25 -4814 Nov 11 j 22:24 max. Earth dist. 14°**≙**01'28 20.58875 AU evening set -4808 Nov 18 j 19:05 7°**IL**38'07 -4814 Nov 26 j 11:07 morning rise 14°**£**52'49 retrograde -4813 Feb 27 j 21:03 18°**ഫ**04'00 conjunction -4808 Dec 04 j 11:42 8°M32'22 0°00'13 opposition -4813 May 16 j 14:18 16°**≙**04'27 0°21'53 minimum elong -4808 Dec 04 j 11:42 8° MJ32'22 0°00'04 min. Earth dist. -4813 May 15 j 12:06 16°**♀**07'05 18.61977 AU behind sun begin -4808 Dec 04 j 05:44 8°M31'32 -4813 Jul 31 j 23:02 -4808 Dec 04 j 17:40 direct 14°**£**06'34 behind sun end 8° MJ33'12 -4813 Oct 30 j 13:20 -4808 Dec 05 j 18:45 evening set 17°**≏**12'00 max. Earth dist. 8°M36'52 20.89590 AU morning rise -4808 Dec 20 j 07:22 9°M27'05 conjunction -4813 Nov 15 j 03:17 18°**≏**06'52 0°18'05 desc. node -4808 Dec 26 j 13:07 9°ML48'01 minimum elong -4813 Nov 15 j 03:17 18°**≏**06'52 0°18'01 retrograde -4807 Mar 24 j 09:11 12°M35'37 max. Earth dist. -4813 Nov 16 j 05:54 18°**≙**10'48 20.64947 AU min. Earth dist. -4807 Jun 09 j 09:52 10°M39'04 18.91616 AU morning rise -4813 Nov 30 j 19:28 19°**♀**02'04 opposition -4807 Jun 10 j 15:38 10°M36'06 -0°01'48 retrograde -4812 Mar 03 j 08:32 22°**♀**12'47 direct -4807 Aug 25 j 11:52 8°M39'29 min. Earth dist. -4812 May 19 j 01:52 20°**£**15'57 18.67872 AU evening set -4807 Nov 23 j 00:01 11°M39'27 opposition -4812 May 20 j 04:31 20°**♀**13'17 0°18'02 direct -4812 Aug 04 i 10:31 18°**♀**15'42 conjunction -4807 Dec 08 i 17:08 12°MJ33'37 -0°03'27 evening set -4812 Nov 02 j 20:13 21°**₽**20'05 minimum elong -4807 Dec 08 i 17:09 12°M33'37 0°03'35 behind sun begin -4807 Dec 08 j 10:38 12°M32'42 -4807 Dec 08 j 23:39 conjunction -4812 Nov 18 j 10:43 22°**₽**14'49 0°14'35 behind sun end 12°M34'32 -4812 Nov 18 j 10:43 22°**₽**14'49 0°14'31 max. Earth dist. -4807 Dec 09 j 23:41 12°ML38'02 20.93493 AU minimum elong -4812 Nov 18 j 07:40 22°**₽**14'22 -4807 Dec 24 j 13:49 behind sun begin morning rise 13°M,28'17 -4812 Nov 18 j 13:46 -4806 Jan 22 j 22:22 behind sun end 22°**Ω**15'15 15°M. -4812 Nov 19 j 15:09 -4806 Mar 28 j 17:15 max. Earth dist. 22°**♀**19'00 20.70643 AU retrograde 16°M36'29 -4812 Dec 04 j 03:22 -4806 Jun 05 j 09:32 morning rise 23°**₽**09'52 15°R ML -4811 Mar 07 j 19:50 -4806 Jun 13 j 19:56 26°**£**20'07 min. Earth dist. 14°M39'53 18.95378 AU retrograde -4811 May 24 j 17:52 -4806 Jun 15 j 01:17 24°**2**20'39 0°14'07 14°M36'57 -0°05'45 opposition opposition min. Earth dist. -4811 May 23 j 14:11 24°**₽**23'26 18.73364 AU direct -4806 Aug 29 j 18:20 12°M40'30 -4811 Aug 08 j 22:34 -4806 Nov 15 j 02:16 direct 22°**£**23′20 15°M -4811 Nov 07 j 02:41 -4806 Nov 27 j 04:32 evening set 25°**£**26'42 evening set 15°**™**39'48 -4811 Nov 22 j 17:29 -4806 Dec 12 j 22:32 conjunction 26°**£**21'17 0°11'03 conjunction 16°M33'55 -0°06'59 minimum elong -4811 Nov 22 j 17:30 26°**♀**21'17 0°10'57 minimum elong -4806 Dec 12 j 22:32 16°M33'55 0°07'09 behind sun begin -4811 Nov 22 j 12:30 26°**♀**20'35 behind sun begin -4806 Dec 12 j 16:28 16°M33'04 behind sun end -4811 Nov 22 j 22:29 26°**£**22'00 behind sun end -4806 Dec 13 j 04:36 16°M34'46 max. Earth dist. -4811 Nov 23 j 21:36 26°**£**25'25 20.75936 AU max. Earth dist. -4806 Dec 14 j 06:22 16°M38'31 20.97095 AU -4811 Dec 08 j 11:02 27°**♀**16'15 -4806 Dec 28 j 19:55 17°M28'33 morning rise morning rise -4810 Feb 07 j 14:39 -4805 Apr 02 j 01:54 20°M36'27 0°M retrograde -4810 Mar 12 j 05:28 0° ML26'02 -4805 Jun 18 j 04:00 18°M39'58 18.98815 AU retrograde min. Earth dist. -4810 Apr 14 j 14:30 -4805 Jun 19 j 10:18 18°MJ36'56 -0°09'39 opposition min. Earth dist. -4810 May 28 i 02:50 28° **2**29'20 18.78465 AU direct -4805 Sep 03 i 01:44 16°M40'38 -4810 May 29 i 06:33 opposition 28°**♀**26'34 0°10'09 evening set -4805 Dec 01 i 08:56 19°M39'21 direct -4810 Aug 13 j 08:18 26°**₽**29'27 evening set -4805 Dec 17 i 03:30 -4810 Nov 11 i 08:34 29°**₽**31'52 conjunction 20°M33'26 -0°10'28 minimum elong -4810 Nov 19 j 11:45 0°M -4805 Dec 17 i 03:29 20°MJ33'26 0°10'39 behind sun begin -4805 Dec 16 i 22:23 20°MJ32'43 -4810 Nov 27 j 00:03 0°ML26'20 0°07'28 behind sun end -4805 Dec 17 j 08:36 20°M34'09 conjunction -4810 Nov 27 j 00:03 0°M26'20 0°07'21 max. Earth dist. -4805 Dec 18 j 10:37 20°M37'54 21.00366 AU minimum elong behind sun begin -4810 Nov 26 j 18:03 0°M25'29 morning rise -4804 Jan 02 j 01:55 21°M28'02 behind sun end -4810 Nov 27 j 06:04 0°M27'11 retrograde -4804 Apr 05 j 09:50 24°M35'42 -4804 Jun 22 j 19:02 max. Earth dist. -4810 Nov 28 j 05:48 0°M30'41 20.80837 AU opposition 22°M36'12 -0°13'30 morning rise -4810 Dec 12 j 18:08 1°M21'11 min. Earth dist. -4804 Jun 21 j 13:27 22°M39'10 19.01921 AU -4809 Mar 16 j 15:34 direct -4804 Sep 06 j 06:55 20°M40'03 retrograde 4°M30'31 -4809 Jun 02 j 18:09 2°M31'02 0°06'10 -4804 Dec 04 j 13:11 23°M38'16 opposition evening set -4809 Jun 01 j 13:25 min. Earth dist. 2°M33'55 18.83176 AU -4804 Dec 20 j 08:43 direct -4809 Aug 17 j 18:59 0°**IL**34'07 conjunction 24°M32'20 -0°13'55 evening set -4809 Nov 15 j 14:09 3°M35'38 minimum elong -4804 Dec 20 j 08:43 24°M32'20 0°14'06 behind sun begin -4804 Dec 20 j 05:24 24°M31'52 conjunction -4809 Dec 01 j 06:01 4°M29′59 0°03'53 behind sun end -4804 Dec 20 j 12:02 24°M32'47 minimum elong -4809 Dec 01 j 06:00 4°M29'59 0°03'46 max. Earth dist. -4804 Dec 21 j 16:52 24°M36'56 21.03292 AU behind sun begin -4809 Nov 30 j 23:31 4°M29'04 -4803 Jan 05 j 07:55 25°M26'55 morning rise behind sun end -4809 Dec 01 j 12:29 4°M30'55 -4803 Apr 09 j 18:32 28° M $_{3}4'22$ retrograde

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4803 in astronomical counting style is the year 4804 BCE in historical counting style. -4803 Jun 25 j 20:52 26°M37'57 19.04651 AU conjunction -4796 Jan 18 i 00:35 22° ₹ 16'54 -0°35'12 min. Earth dist. minimum elong -4803 Jun 27 j 03:03 26°MJ34'56 -0°17'16 -4796 Jan 18 j 00:35 22° 🖈 16'54 0°35'27 opposition -4803 Sep 10 j 13:43 24°MJ38'54 -4796 Jan 19 j 01:55 22°**✗**20'30 21.10183 AU direct max. Earth dist. -4803 Dec 08 j 17:38 -4796 Feb 03 j 06:49 27°M36'42 23°×11'54 evening set morning rise 26°**х** 18′46 -4796 May 08 j 02:53 retrograde 24°**₹**21'24 19.09695 AU -4803 Dec 24 j 13:50 28°MJ30'45 -0°17'17 -4796 Jul 24 j 03:59 conjunction min. Earth dist. -4803 Dec 24 j 13:50 -4796 Jul 25 j 02:21 24°**₹**19'08 -0°40'19 minimum elong 28°M30'45 0°17'30 opposition -4803 Dec 25 j 20:52 22°×23'01 max. Earth dist. 28°M35'11 21.05818 AU direct -4796 Oct 07 j 23:01 -4802 Jan 09 j 14:10 morning rise 29°M25'22 evening set -4795 Jan 05 j 04:18 25°**х** 19′53 -4802 Jan 20 j 03:28 0° **₹** retrograde -4802 Apr 14 j 02:20 2°×32'39 conjunction -4795 Jan 21 j 07:17 26°**₹**14'22 -0°37'40 -4802 Jun 30 j 05:59 -4795 Jan 21 j 07:16 26°**∡**14'22 0°37'55 min. Earth dist. 0°**尽**36'08 19.06967 AU minimum elong -4802 Jul 01 j 10:51 -4795 Jan 22 j 08:15 26°**✗**17'55 21.09009 AU opposition 0°**∡**33'14 -0°20'57 max. Earth dist. -4802 Jul 15 j 11:03 30°RM morning rise -4795 Feb 06 j 14:22 27°**х** 09′28 direct -4802 Sep 14 j 17:36 28°M37'20 -4795 Apr 16 j 08:41 0°정 -4802 Nov 11 j 21:27 0°⊀ retrograde -4795 May 12 j 11:19 0°る16'22 evening set -4802 Dec 12 j 22:00 1°×34'46 -4795 Jun 07 j 19:13 30°₽**х**7 min. Earth dist. -4795 Jul 28 j 09:50 28°**⊀**18'52 19.08283 AU conjunction -4802 Dec 28 j 19:12 2° ₹28'51 -0°20'34 opposition -4795 Jul 29 j 07:53 28°**х** 16'38 -0°42'57 minimum elong -4802 Dec 28 j 19:12 2°**₹**28'51 0°20'47 direct -4795 Oct 12 j 04:09 26°**х** 20′21 max. Earth dist. -4802 Dec 30 j 02:45 2°**尽**33'21 21.07901 AU evening set -4794 Jan 09 j 10:18 29°×17'22 morning rise -4801 Jan 13 j 20:18 3°**х** 23′29 -4794 Jan 22 i 01:39 0°궁 retrograde -4801 Apr 18 j 11:09 6°**х** 30′37 opposition -4801 Jul 05 i 18:01 4°**₹**31'15 -0°24'32 conjunction -4794 Jan 25 i 14:08 0°る12'00 -0°39'57 min. Earth dist. -4801 Jul 04 j 13:00 4° ₹34'09 19.08803 AU minimum elong -4794 Jan 25 j 14:08 0°る11'59 0°40'12 -4801 Sep 19 j 00:10 2°×735'25 max. Earth dist. -4794 Jan 26 j 12:54 0°る15'13 21.07378 AU direct -4801 Dec 17 j 02:41 5°**∡**³32'37 -4794 Feb 10 j 22:22 1°る07'13 evening set morning rise -4794 May 16 j 18:43 4°₹14'11 retrograde -4800 Jan 02 j 00:36 6° ₹26'42 -0°23'45 -4794 Aug 02 j 13:30 2°る14'21 -0°45'22 conjunction opposition -4800 Jan 02 j 00:36 -4794 Aug 01 j 17:41 2°る16'22 19.06451 AU minimum elong 6° \$\inf 26'42 0°24'00 min. Earth dist. 0°る17'53 -4800 Jan 03 j 06:32 6°**≯**30'58 21.09484 AU -4794 Oct 16 j 07:41 max. Earth dist. direct 3°**ට**15'09 -4800 Jan 18 j 02:49 7°**∡**¹21'23 -4793 Jan 13 j 16:23 evening set morning rise -4800 Apr 21 j 18:45 10°**х** 28′26 retrograde 4°る09'56 -0°42'03 -4800 Jul 07 j 21:55 8°**尽**31'48 19.10128 AU -4793 Jan 29 j 21:23 min. Earth dist. conjunction -4800 Jul 09 j 01:09 8°**≯**29'04 -0°28'00 -4793 Jan 29 j 21:23 4°る09'56 0°42'19 opposition minimum elong -4800 Sep 22 j 03:35 6°**х** 33′16 -4793 Jan 30 j 19:44 4°る13'06 21.05349 AU direct max. Earth dist. -4800 Dec 20 j 07:20 9°**∡**³30′16 -4793 Feb 15 j 06:25 5°**る**05'17 evening set morning rise -4793 May 21 j 04:00 retrograde 8°る12'23 conjunction -4799 Jan 05 j 06:22 10°**₹**24'24 -0°26'50 opposition -4793 Aug 06 j 18:52 6°る12'27 -0°47'35 minimum elong -4799 Jan 05 j 06:21 10°**х** 24'24 0°27'03 min. Earth dist. -4793 Aug 05 j 23:19 6°る14'27 19.04229 AU max. Earth dist. -4799 Jan 06 j 12:18 10°**✗**28'40 21.10530 AU direct -4793 Oct 20 j 12:52 4°る15'49 -4799 Jan 21 j 09:26 11°**х** 19'08 -4792 Jan 17 j 23:07 7°る13'25 morning rise evening set -4799 Apr 26 j 03:37 14°**∡**¹26′06 retrograde -4799 Jul 12 j 04:47 12°**₹**'29'26 19.10879 AU -4792 Feb 03 j 04:59 8°る08'21 -0°43'57 min. Earth dist. conjunction -4799 Jul 13 j 07:49 12°**∡**126'43 -0°31'20 -4792 Feb 03 j 04:59 8°る08'21 0°44'11 opposition minimum elong -4799 Sep 26 i 09:53 -4792 Feb 04 i 01:06 8°る11'12 21.02949 AU direct 10°**∡** 30′56 max. Earth dist. -4799 Dec 24 i 12:27 evening set 13°**∡**27'47 morning rise -4792 Feb 19 i 15:06 9°る03'52 retrograde -4792 May 24 j 11:26 12°る11'09 conjunction -4798 Jan 09 i 12:16 14°**₹**21'59 -0°29'46 min. Earth dist. -4792 Aug 09 i 07:11 10°る12'54 19.01660 AU -4798 Jan 09 i 12:16 14°**₹**21'59 0°30'00 -4792 Aug 10 i 00:24 10°**ට**11'09 -0°49'34 minimum elong opposition max. Earth dist. -4798 Jan 10 j 16:04 14° ₹25'56 21.10986 AU direct -4792 Oct 23 j 16:01 8°**궁**14'19 -4798 Jan 25 j 16:29 15°**∡**16'48 evening set -4791 Jan 21 j 06:10 11°る12'21 morning rise -4798 Apr 30 j 11:02 18°×723'42 retrograde -4798 Jul 17 j 14:13 16°**х** 24′16 -0°34′30 opposition conjunction -4791 Feb 06 j 13:15 12°る07'27 -0°45'39 16°**∡**¹26'46 19.11044 AU min. Earth dist. -4798 Jul 16 j 13:22 minimum elong -4791 Feb 06 j 13:15 12°る07'27 0°45'54 -4798 Sep 30 j 13:33 14°**∡**°28′24 direct max. Earth dist. -4791 Feb 07 j 08:43 12°る10'13 21.00214 AU -4798 Dec 28 j 17:32 evening set 17°**₹**25'11 morning rise -4791 Feb 23 j 00:12 13°る03'08 -4791 May 28 j 22:10 16°る10'39 retrograde -4797 Jan 13 j 18:30 18°**х** 19'29 -0°32'34 -4791 Aug 14 j 05:51 14°る10'35 -0°51'20 conjunction opposition -4797 Jan 13 j 18:30 18°**∡**19'29 0°32'48 -4791 Aug 13 j 13:06 14°る12'18 18.98743 AU minimum elong min. Earth dist. 18°**∡**23'23 21.10865 AU -4791 Oct 27 j 21:42 12°る13'35 max. Earth dist. -4797 Jan 14 j 21:56 direct -4790 Jan 25 j 14:02 morning rise -4797 Jan 29 j 23:34 19°**х** 14′22 evening set 15°る12'07 retrograde -4797 May 04 j 19:28 22°×21'13 opposition -4797 Jul 21 j 20:19 20°**₹**21'43 -0°37'30 conjunction -4790 Feb 10 j 22:00 16°る07'25 -0°47'08 min. Earth dist. -4797 Jul 20 j 19:45 20°**尽**24'11 19.10631 AU minimum elong -4790 Feb 10 j 21:59 16°る07'25 0°47'22 -4797 Oct 04 j 19:14 18°**∡** 25'45 max. Earth dist. -4790 Feb 11 j 14:59 16°る09'50 20.97125 AU direct -4796 Jan 01 j 22:48 21°**₹**22'32 -4790 Feb 27 j 09:58 17°る03'17 evening set morning rise

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 10 Attention, astronomical year style is used: The year -4790 in astronomical counting style is the year 4791 BCE in historical counting style.

Attention, astronom	ileai yeai style is useu. Tii	c year 47701	ii astronomicai co	unting style is the year	4791 BCE in historical c	ounting style.	
retrograde	-4790 Jun 02 j 05:53	20° ප 11'03		evening set	-4783 Feb 23 j 16:45	13° ≈ 44'17	
opposition	-4790 Aug 18 j 11:29	18° ප 10'57	-0°52'52				
min. Earth dist.	-4790 Aug 17 j 21:20	18° る 12'24	18.95485 AU	conjunction	-4783 Mar 12 j 07:35	14° ≈ 41'17	-0°50'48
direct	-4790 Nov 01 j 00:50	16° ප 13'46		minimum elong	-4783 Mar 12 j 07:35	14° ≈ 41'17	0°51'00
evening set	-4789 Jan 29 j 22:20	19° る 12'54		max. Earth dist.	-4783 Mar 12 j 09:02	14° ≈ 41'30	20.64636 AU
-	•				-4783 Mar 17 j 17:24	15° ≈	
conjunction	-4789 Feb 15 j 07:27	20° පි 08'24	-0°48'24	morning rise	-4783 Mar 29 j 00:51	15° ≈ 38'40	
minimum elong	-4789 Feb 15 i 07:27	20° පි 08'24	0°48'38	retrograde	-4783 Jul 01 j 10:51	18° ≈ 49'08	
max. Earth dist.	-4789 Feb 15 j 23:28	20° ට 10'41	20.93701 AU	opposition	-4783 Sep 15 j 10:53	16° ≈ 48′26	-0°56'01
morning rise	-4789 Mar 03 j 20:12	21° පි 04'27		min. Earth dist.	-4783 Sep 15 j 10:06		18.61573 AU
retrograde	-4789 Jun 06 j 17:20	24° ප 12'33			-4783 Nov 08 j 14:17	15°R ≈	
opposition	-4789 Aug 22 j 17:15	22° る 12'25	-0°54'08	direct	-4783 Nov 29 j 01:22	14° ≈ 49'10	
min. Earth dist.	-4789 Aug 22 j 03:48		18.91872 AU		-4783 Dec 19 j 08:13	15° ≈	
direct	-4789 Nov 05 j 07:25	20° ට 15'03	10.51072110	evening set	-4782 Feb 28 j 06:40	17°≈54'11	
evening set	-4788 Feb 03 j 07:23	23°る14'50		evening sec	1702100 20 00.10	17 70 3 1 1 1	
evening sec	17001 0 0 05 j 07.25	25 01150		conjunction	-4782 Mar 16 j 22:12	18° ≈ 51'28	-0°50'17
conjunction	-4788 Feb 19 j 17:23	24° る 10'34	-0°49'25	minimum elong	-4782 Mar 16 j 22:12	18°≈51'28	
minimum elong	-4788 Feb 19 j 17:23	24°る10'34		max. Earth dist.	-4782 Mar 16 j 20:48		20.58431 AU
max. Earth dist.	-4788 Feb 20 j 06:42		20.89903 AU	morning rise	-4782 Apr 02 j 16:02	19°≈49'05	20.36431 AU
morning rise	-4788 Mar 07 j 07:06	25°පි06'50	20.89903 AU	retrograde	-4782 Jul 05 j 22:15	22°≈59'59	
Č		23°る00'30 28°る15'17		opposition	-	22 ≈59 39 20°≈59'08	0055110
retrograde	-4788 Jun 10 j 02:01	26°る1517	0055100		-4782 Sep 19 j 19:10		
opposition	-4788 Aug 25 j 23:27			min. Earth dist.	-4782 Sep 19 j 21:24		18.55243 AU
min. Earth dist.	-4788 Aug 25 j 12:55		18.87880 AU	direct	-4782 Dec 03 j 09:44	18°≈59'26	
direct	-4788 Nov 08 j 11:21	24°る17'31		evening set	-4781 Mar 04 j 21:11	22°≈05'30	
evening set	-4787 Feb 06 j 17:17	27° る 18'03			450134 01:10.05	222 02104	00.4010.0
				conjunction	-4781 Mar 21 j 13:35	23°≈03'04	
conjunction	-4787 Feb 23 j 04:24	28° る 14'02		minimum elong	-4781 Mar 21 j 13:36	23°≈03'04	0°49'40
minimum elong	-4787 Feb 23 j 04:24	28° ♂ 14'02		max. Earth dist.	-4781 Mar 21 j 10:10		20.52002 AU
max. Earth dist.	-4787 Feb 23 j 16:11		20.85714 AU	morning rise	-4781 Apr 07 j 07:55	24° ≈ 00'55	
morning rise	-4787 Mar 11 j 18:50	29° る 10'30		retrograde	-4781 Jul 10 j 11:58	27°≈12'18	
	-4787 Mar 27 j 02:17	0° ≈		opposition	-4781 Sep 24 j 03:47	25° ≈ 11'16	
retrograde	-4787 Jun 14 j 13:49	2° ≈ 19'19		min. Earth dist.	-4781 Sep 24 j 06:59	25° ≈ 10'56	18.48720 AU
opposition	-4787 Aug 30 j 05:41	0° ≈ 19'07		direct	-4781 Dec 07 j 20:15	23° ≈ 11′08	
min. Earth dist.	-4787 Aug 29 j 20:15	0° ≈ 20'05	18.83472 AU	evening set	-4780 Mar 08 j 12:35	26° ≈ 18′17	
	-4787 Sep 06 j 23:18	30°₹ ⋜					
direct	-4787 Nov 12 j 19:00	28° පි 21'16		conjunction	-4780 Mar 25 j 05:40	27° ≈ 16′09	-0°48'26
	-4786 Jan 15 j 17:03	0° ≈		minimum elong	-4780 Mar 25 j 05:41	27° ≈ 16′09	0°48'34
evening set	-4786 Feb 11 j 04:08	1° ≈ 22'37		max. Earth dist.	-4780 Mar 24 j 23:48	27° ≈ 15′18	20.45398 AU
				morning rise	-4780 Apr 11 j 00:27	28° ≈ 14'16	
conjunction	-4786 Feb 27 j 16:05	2° ≈ 18'50	-0°50'45				
minimum elong					-4780 May 15 j 04:25	0°) €	
max. Earth dist.	-4786 Feb 27 j 16:05	2° ≈ 18'50	0°50'59	retrograde	-4780 May 15 j 04:25 -4780 Jul 14 j 00:30	0° ∺ 1° ∺ 26′07	
	-4786 Feb 27 j 16:05 -4786 Feb 28 j 00:42		0°50'59 20.81082 AU	retrograde			
morning rise				retrograde opposition	-4780 Jul 14 j 00:30	1° ∺ 26′07	-0°52'59
morning rise retrograde	-4786 Feb 28 j 00:42	2° ≈ 20'04		-	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08	1°¥26'07 30°R≈ 29°≈24'57	-0°52'59 18.42058 AU
•	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21	2°≈20'04 3°≈15'31	20.81082 AU	opposition	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07	1°¥26'07 30°R≈ 29°≈24'57	
retrograde	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27	20.81082 AU	opposition min. Earth dist.	-4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09	1° ¥ 26′07 30° R ≈ 29°≈24′57 29°≈24′18	
retrograde opposition	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27	20.81082 AU -0°56'22	opposition min. Earth dist.	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30	1°¥26'07 30°R≈ 29°≈24'57 29°≈24'18 27°≈24'22	
retrograde opposition min. Earth dist.	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06	20.81082 AU -0°56'22	opposition min. Earth dist. direct	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30	1° ¥ 26′07 30° R≈ 29°≈24′57 29°≈24′18 27°≈24′22 0° ¥	
retrograde opposition min. Earth dist. direct	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19	20.81082 AU -0°56'22	opposition min. Earth dist. direct	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30	1° ¥ 26′07 30° R≈ 29°≈24′57 29°≈24′18 27°≈24′22 0° ¥	18.42058 AU
retrograde opposition min. Earth dist. direct	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19	20.81082 AU -0°56'22 18.78620 AU	opposition min. Earth dist. direct evening set	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54	1° ★26'07 30° R≈ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41	18.42058 AU -0°47'06
retrograde opposition min. Earth dist. direct evening set	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30	20.81082 AU -0°56'22 18.78620 AU -0°51'02	opposition min. Earth dist. direct evening set conjunction	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42	1° ★26'07 30° № 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★30'50	18.42058 AU -0°47'06
retrograde opposition min. Earth dist. direct evening set conjunction	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59	20.81082 AU -0°56'22 18.78620 AU -0°51'02	opposition min. Earth dist. direct evening set conjunction minimum elong	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 22:42	1° ★26'07 30° № 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★30'50	18.42058 AU -0°47'06 0°47'14
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39	1° ★26'07 30° R≈ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩32'41 1° ₩30'50 1° ₩30'50 1° ₩29'40	18.42058 AU -0°47'06 0°47'14
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51	1° ★26'07 30° R≈ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩32'41 1° ₩30'50 1° ₩30'50 1° ₩29'40 2° ₩29'12	-0°47'06 0°47'14 20.38700 AU
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56 7°≈21'53	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★29'40 2° ★29'12 5° ★41'34 3° ★40'16	-0°47'06 0°47'14 20.38700 AU
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41 -4785 Sep 07 j 19:38	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈22'53 10°≈31'31 8°≈31'07	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★29'40 2° ★29'12 5° ★41'34 3° ★40'16	-0°47'06 0°47'14 20.38700 AU -0°51'23
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈22'53 10°≈31'31 8°≈31'07	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★29'40 2° ★29'12 5° ★41'34 3° ★40'16 3° ★39'31	-0°47'06 0°47'14 20.38700 AU -0°51'23
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41 -4785 Sep 07 j 19:38 -4785 Sep 07 j 14:29	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈22'55 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Dec 15 j 17:28	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★39'50 1° ★29'40 2° ★29'12 5° ★41'34 3° ★40'16 3° ★39'31 1° ★39'16	-0°47'06 0°47'14 20.38700 AU -0°51'23
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41 -4785 Sep 07 j 19:38 -4785 Sep 07 j 14:29 -4785 Nov 21 j 08:53	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39 6°≈32'39	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 13 j 04:54 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Dec 15 j 17:28	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ★ 0° ★32'41 1° ★30'50 1° ★39'50 1° ★29'40 2° ★29'12 5° ★41'34 3° ★40'16 3° ★39'31 1° ★39'16	-0°47'06 0°47'14 20.38700 AU -0°51'23 18.35327 AU
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41 -4785 Sep 07 j 19:38 -4785 Sep 07 j 14:29 -4785 Nov 21 j 08:53	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39 6°≈32'39	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32 18.73325 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Dec 15 j 17:28 -4778 Mar 17 j 22:08	1° ★26'07 30° R≈ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩ 30'50 1° ₩30'50 1° ₩29'40 2° ₩29'12 5° ₩41'34 3° ₩40'16 3° ₩39'31 1° ₩39'16 4° ₩48'48	-0°47'06 0°47'14 20.38700 AU -0°51'23 18.35327 AU
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Sep 07 j 19:38 -4785 Sep 07 j 19:38 -4785 Nov 21 j 08:53 -4784 Feb 20 j 03:46	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39 9°≈35'44	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32 18.73325 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Dec 15 j 17:28 -4778 Apr 03 j 16:31 -4778 Apr 03 j 16:31	1° ★26'07 30° R≈ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩ 30'50 1° ₩30'50 1° ₩29'40 2° ₩29'12 5° ₩41'34 3° ₩39'31 1° ₩39'16 4° ₩48'48 5° ₩47'15	-0°47'06 0°47'14 20.38700 AU -0°51'23 18.35327 AU
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Sep 07 j 19:38 -4785 Sep 07 j 14:29 -4785 Nov 21 j 08:53 -4784 Feb 20 j 03:46 -4784 Mar 07 j 17:35 -4784 Mar 07 j 17:35	2°≈20'04 3°≈15'31 6°≈24'44 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈22'56 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39 9°≈35'44 10°≈32'28 10°≈32'28	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32 18.73325 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Dec 15 j 17:28 -4778 Apr 03 j 16:31 -4778 Apr 03 j 16:31 -4778 Apr 03 j 06:21	1° ★26'07 30° R≈ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩ 30'50 1° ₩30'50 1° ₩29'40 2° ₩29'12 5° ₩41'34 3° ₩39'31 1° ₩39'16 4° ₩48'48 5° ₩47'15	-0°47'06 0°47'14 20.38700 AU -0°51'23 18.35327 AU -0°45'31 0°45'37
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retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41 -4785 Sep 07 j 19:38 -4785 Sep 07 j 19:38 -4785 Sep 07 j 14:29 -4785 Nov 21 j 08:53 -4784 Feb 20 j 03:46 -4784 Mar 07 j 17:35 -4784 Mar 07 j 21:08 -4784 Mar 07 j 21:08 -4784 Jun 26 j 22:10 -4784 Sep 11 j 03:07	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39 6°≈32'39 9°≈35'44 10°≈32'28 10°≈32'28 10°≈32'58 11°≈29'36 14°≈39'39 12°≈39'07	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32 18.73325 AU -0°51'03 0°51'15 20.70509 AU -0°56'25	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Dec 15 j 17:28 -4778 Mar 17 j 22:08 -4778 Apr 03 j 16:31 -4778 Apr 03 j 16:31 -4778 Apr 20 j 11:53 -4778 Jul 23 j 05:36 -4778 Oct 06 j 09:23 -4778 Oct 06 j 18:57	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩ 32'41 1° ₩ 30'50 1° ₩ 29'40 2° ₩ 29'12 5° ₩ 41'34 3° ₩ 40'16 3° ₩ 39'31 1° ₩ 39'16 4° ₩ 48'48 5° ₩ 47'15 5° ₩ 45'52 9° ₩ 58'47 7° ₩ 57'23 7° ₩ 56'21	18.42058 AU -0°47'06 0°47'14 20.38700 AU -0°51'23 18.35327 AU -0°45'31 0°45'37 20.31943 AU -0°49'29
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	-4786 Feb 28 j 00:42 -4786 Mar 16 j 07:21 -4786 Jun 18 j 23:30 -4786 Sep 03 j 12:32 -4786 Sep 03 j 06:16 -4786 Nov 17 j 00:21 -4785 Feb 15 j 15:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 04:26 -4785 Mar 04 j 11:09 -4785 Mar 20 j 20:21 -4785 Jun 23 j 11:41 -4785 Sep 07 j 19:38 -4785 Sep 07 j 19:38 -4785 Nov 21 j 08:53 -4784 Feb 20 j 03:46 -4784 Mar 07 j 17:35 -4784 Mar 07 j 21:08 -4784 Mar 24 j 10:15 -4784 Jun 26 j 22:10	2°≈20'04 3°≈15'31 6°≈24'44 4°≈24'27 4°≈25'06 2°≈26'19 5°≈28'30 6°≈24'59 6°≈24'59 6°≈25'56 7°≈21'53 10°≈31'31 8°≈31'07 8°≈31'39 6°≈32'39 9°≈35'44 10°≈32'28 10°≈32'28 10°≈32'58 11°≈29'36 14°≈39'39 12°≈39'07	20.81082 AU -0°56'22 18.78620 AU -0°51'02 0°51'14 20.76014 AU -0°56'32 18.73325 AU -0°51'03 0°51'15 20.70509 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	-4780 Jul 14 j 00:30 -4780 Sep 13 j 13:08 -4780 Sep 27 j 13:07 -4780 Sep 27 j 19:09 -4780 Dec 11 j 05:30 -4779 Mar 03 j 10:30 -4779 Mar 29 j 22:42 -4779 Mar 29 j 14:39 -4779 Apr 15 j 17:51 -4779 Jul 18 j 15:43 -4779 Oct 01 j 22:47 -4779 Oct 02 j 05:45 -4779 Mar 17 j 22:08 -4778 Apr 03 j 16:31 -4778 Apr 03 j 16:31 -4778 Apr 20 j 11:53 -4778 Apr 20 j 11:53 -4778 Apr 20 j 11:53 -4778 Jul 23 j 05:36 -4778 Oct 06 j 09:23	1° ★26'07 30° R∞ 29° ≈24'57 29° ≈24'18 27° ≈24'22 0° ₩ 0° ₩32'41 1° ₩30'50 1° ₩30'50 1° ₩29'40 2° ₩29'12 5° ₩41'34 3° ₩40'16 3° ₩39'31 1° ₩39'16 4° ₩48'48 5° ₩47'15 5° ₩47'15 5° ₩45'52 9° ₩58'47 7° ₩57'23	18.42058 AU -0°47'06 0°47'14 20.38700 AU -0°51'23 18.35327 AU -0°45'31 0°45'37 20.31943 AU -0°49'29

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4777 in astronomical counting style is the year 4778 BCE in historical counting style. 10°**)** 05'31 -0°43'39 -4777 Apr 08 i 10:57 retrograde -4771 Aug 23 j 11:31 10°Y56'13 conjunction opposition -4777 Apr 08 j 10:58 10° **★** 05'31 0°43'45 -4771 Nov 05 j 08:14 8°Y54'26 -0°28'24 minimum elong max. Earth dist. -4777 Apr 07 j 22:34 10°**)** €03'42 20.25199 AU min. Earth dist. -4771 Nov 06 j 05:51 8°Υ52'05 17.81820 AU -4770 Jan 19 j 13:49 -4777 Apr 25 j 06:36 11°**)**(04'24 6°Y50'32 morning rise direct 10°**Y**10'44 -4777 Jul 27 j 22:15 14°**)** 17'54 -4770 Apr 24 j 01:28 retrograde evening set -4777 Oct 10 j 20:31 12°¥16'24 -0°47'18 opposition 12°**升**15'17 18.21834 AU 11°Υ11'25 -0°23'46 min. Earth dist. -4777 Oct 11 j 06:58 conjunction -4770 May 10 j 21:41 11°Υ11'26 0°23'44 direct -4777 Dec 24 j 17:15 10°**)** 14'39 minimum elong -4770 May 10 j 21:41 11°**Υ**'07'23 19.78528 AU evening set -4776 Mar 26 j 11:07 13°**)** 26'44 max. Earth dist. -4770 May 09 j 18:59 morning rise -4770 May 27 j 15:59 12°Υ11'55 15°**Y**29'32 conjunction -4776 Apr 12 j 06:32 14°\(\dagger)25'47 -0°41'32 retrograde -4770 Aug 28 j 07:38 -4776 Apr 12 j 06:32 -4770 Nov 10 j 01:10 13°**Y**27'39 -0°24'25 minimum elong 14°**H**25'47 0°41'38 opposition -4776 Apr 11 j 16:21 -4770 Nov 11 j 00:27 max. Earth dist. 14°**升**23'42 20.18470 AU min. Earth dist. 13°**Y**25'07 17.75308 AU morning rise -4776 Apr 29 j 02:12 15°**¥**24'55 direct -4769 Jan 24 j 08:13 11°Y23'22 retrograde -4776 Jul 31 j 13:56 18°**)**39'00 evening set -4769 Apr 29 j 02:35 14° **Y**44'49 opposition -4776 Oct 14 j 08:24 16°**升**37'28 -0°44'49 min. Earth dist. -4776 Oct 14 j 21:28 16°**¥**36′04 18.15121 AU conjunction -4769 May 15 j 22:26 15°Υ45'45 -0°20'06 direct -4776 Dec 28 j 05:25 14°**)** ₹35′22 minimum elong -4769 May 15 j 22:26 15°Υ45'45 0°20'03 evening set -4775 Mar 31 j 07:15 17°**)**(48'49 max. Earth dist. -4769 May 14 j 16:59 15°**Y**41'16 19.72104 AU max. Earth dist. -4775 Apr 16 j 10:08 18°**)** 45'40 20.11781 AU morning rise -4769 Jun 01 j 16:23 16°**Y**46′25 retrograde -4769 Sep 02 j 03:35 20° Y 04'34 conjunction -4775 Apr 17 i 02:58 18°**)** 48′09 -0°39′10 opposition -4769 Nov 14 i 18:46 18° Y 02'33 -0°20'16 minimum elong -4775 Apr 17 i 02:59 18°**)** 48'09 0°39'13 min. Earth dist. -4769 Nov 15 i 19:18 17°**Y**59'53 17.68991 AU -4775 May 03 j 22:47 19°**)**(47'32 direct -4768 Jan 29 i 05:08 15°Y57'53 morning rise retrograde -4775 Aug 05 j 07:58 23°\(\)(02'14 evening set -4768 May 03 i 04:21 19° Y 20'34 -4775 Oct 18 j 21:03 21°\(\pi\)00'40 -0°42'04 max. Earth dist. -4768 May 18 j 18:25 20°Υ17'11 19.65900 AU opposition -4775 Oct 19 j 11:16 20°**)** 59'09 18.08442 AU min. Earth dist. -4774 Jan 01 j 20:15 18°**)** 58'14 -4768 May 20 j 00:04 20°Υ21'43 -0°16'17 direct conjunction -4768 May 20 j 00:04 20°Y21'43 0°16'13 -4774 Apr 05 j 04:14 22°¥13'03 minimum elong evening set -4768 Jun 05 j 17:13 -4774 Apr 21 j 05:54 23°**₭**09'57 20.05096 AU 21°\bar{`}22'33 max. Earth dist. morning rise -4768 Sep 06 j 00:09 24° Y 41'09 retrograde 22°**Υ**39'03 -0°15'57 -4774 Apr 22 j 00:17 opposition -4768 Nov 18 j 13:08 conjunction 23°**¥**12'41 -0°36'32 -4774 Apr 22 j 00:17 -4768 Nov 19 j 14:44 0°36'35 23°**)** 12'41 min. Earth dist. 22°**Y**36'16 17.62925 AU minimum elong -4774 May 08 j 19:51 24°**)** 12'18 -4767 Feb 02 j 01:58 20°**Y**34′00 morning rise direct -4774 Aug 10 j 01:34 27°**米**27'37 -4767 May 08 j 06:54 23°Y57'53 retrograde evening set -4774 Oct 23 j 10:39 -4767 May 23 j 18:07 24°Υ54'19 19.59996 AU opposition 25°**∺**26′02 -0°39′01 max. Earth dist. 25°**)** 24'14 18.01765 AU -4774 Oct 24 j 03:21 min. Earth dist. direct -4773 Jan 06 j 10:24 23°¥23'16 conjunction -4767 May 25 j 01:59 24°**Y**'59'12 -0°12'22 -4773 Apr 10 j 02:17 26°**¥**39'26 minimum elong -4767 May 25 j 01:59 24°**Y**'59'12 0°12'16 evening set behind sun begin -4767 May 24 j 21:34 24°Y58'33 conjunction -4773 Apr 26 j 22:23 27°\dagger39'21 -0°33'40 behind sun end -4767 May 25 j 06:24 24°**Y**59'52 -4773 Apr 26 j 22:23 27°\(\frac{1}{39}\)'21 0°33'41 morning rise -4767 Jun 10 j 18:32 26°**Y**00′10 minimum elong -4773 Apr 26 j 01:00 27°**升**36′09 19.98427 AU -4767 Sep 10 j 20:46 29°Y19'16 max. Earth dist. retrograde -4773 May 13 j 17:57 28°**)** 39′13 -4767 Nov 23 j 08:24 27°**Y**17'03 -0°11'31 morning rise opposition -4773 Jun 07 j 05:45 $0^{\circ}\Upsilon$ min. Earth dist. -4767 Nov 24 j 11:03 27°Υ14'08 17.57215 AU 1°Y55'09 25°**Y**11'38 retrograde -4773 Aug 14 j 20:44 direct -4766 Feb 07 i 00:44 -4773 Oct 25 i 12:44 30°R**)**€ evening set -4766 May 13 i 09:34 28°Y36'39 opposition -4773 Oct 28 i 00:56 29°**)** 53'31 -0°35'43 max. Earth dist. -4766 May 28 i 20:49 29°**Y**33'17 19.54478 AU min. Earth dist. -4773 Oct 28 i 18:58 29°**)** 51'34 17.95102 AU direct -4772 Jan 11 i 02:55 27°**¥** 50′22 conjunction -4766 May 30 j 04:15 29°Y38'08 -0°08'20 -4772 Mar 24 j 18:26 $0^{\circ}\Upsilon$ -4766 May 30 i 04:14 29°**Ƴ**38′07 0°08'14 minimum elong -4772 Apr 14 j 01:07 1°Y07'55 behind sun begin -4766 May 29 j 22:17 29°Y37'14 evening set behind sun end -4766 May 30 j 10:12 29°Y39'01 -4766 Jun 05 j 02:18 conjunction -4772 Apr 30 j 21:29 2°Y08'06 -0°30'34 0°8 morning rise minimum elong -4772 Apr 30 j 21:29 2° Y 08' 07 0° 30' 34 -4766 Jun 15 j 19:50 0°839'13 -4766 Sep 15 j 18:33 max. Earth dist. -4772 Apr 29 j 22:44 2°Υ04'42 19.91753 AU retrograde 3°858'44 -4772 May 17 j 16:38 3°Y08'12 opposition -4766 Nov 28 j 04:26 1°**8**56'27 -0°06'59 morning rise 6°**Y**24'42 -4772 Aug 18 j 15:56 -4766 Nov 29 j 07:16 1°**8**53'31 17.51914 AU retrograde min. Earth dist. -4772 Oct 31 j 16:15 4°Υ23'01 -0°32'10 -4765 Jan 24 j 05:10 30°RY opposition 29°**Y**50'44 4°**Υ**20'49 17.88434 AU -4765 Feb 11 j 23:59 min. Earth dist. -4772 Nov 01 j 12:31 direct 2°Y19'31 0°8 direct -4771 Jan 14 j 19:12 -4765 Mar 02 j 16:11 evening set -4771 Apr 19 j 01:00 5°**Y**38′23 evening set -4765 May 18 j 12:58 3°**8**16'49 max. Earth dist. -4765 Jun 02 j 21:58 4°**8**13'20 19.49413 AU conjunction -4771 May 05 j 21:11 6°**Y**38'50 -0°27'16 minimum elong -4771 May 05 j 21:11 6°**Y**38'50 0°27'15 conjunction -4765 Jun 04 j 06:52 4°**8**18'25 -0°04'15 max. Earth dist. -4771 May 04 j 19:16 6°**Υ**'34'56 19.85105 AU -4765 Jun 04 j 06:52 4°**8**18'25 0°04'08 minimum elong -4771 May 22 j 16:07 7°Y39'08 behind sun begin -4765 Jun 04 j 00:11 4°817'25 morning rise

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 12 Attention, astronomical year style is used: The year -4765 in astronomical counting style is the year 4766 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -4765 i	n astronomical con	unting style is the year	4766 BCE in historical c	counting style.	
behind sun end	-4765 Jun 04 j 13:32	4° 8 19'26		min. Earth dist.	-4760 Dec 26 j 23:33	0°Ⅱ16'42	17.31246 AU
morning rise	-4765 Jun 20 j 21:38	5° 8 19'37			-4759 Jan 02 j 09:28	30° ₹ 8	
retrograde	-4765 Sep 20 j 15:59	8° 8 39'34		direct	-4759 Mar 12 j 07:32	28° 8 13'04	
opposition	-4765 Dec 03 j 01:10	6° ୪ 37'13	-0°02'23		-4759 May 17 j 00:47	Π° 0	
min. Earth dist.	-4765 Dec 04 j 04:54	6° 8 34'11	17.47115 AU	evening set	-4759 Jun 16 j 15:45	1° Ⅱ 44'00	
direct	-4764 Feb 16 j 23:29	4° 8 31'13		max. Earth dist.	-4759 Jul 01 j 20:47	2° Ⅱ 41′00	19.30322 AU
evening set	-4764 May 22 j 16:41	7° 8 58'19			,		
max. Earth dist.	-4764 Jun 07 j 01:39		19.44872 AU	conjunction	-4759 Jul 03 j 03:53	2° Ⅱ 45'54	0°20'28
	.,	. 0		minimum elong	-4759 Jul 03 j 03:53	2° ∏ 45'54	
conjunction	-4764 Jun 08 j 09:57	9° 8 00'03	-0°00'01	morning rise	-4759 Jul 19 j 11:39	3° ∏ 47'12	
minimum elong	-4764 Jun 08 j 09:57	9° 8 00'03	0°00'06	retrograde	-4759 Oct 18 j 15:59	7° Ⅱ 09'01	
behind sun begin	-4764 Jun 08 j 03:27	8° 8 59'04	0 00 00	opposition	-4759 Dec 30 j 22:02	5° Ⅱ 07'00	0°24'56
behind sun end	-4764 Jun 08 j 16:28	9° 8 01'02		min. Earth dist.	-4758 Jan 01 j 01:33		17.29617 AU
asc. node	-4764 Jun 11 j 08:17	9° 8 10'58		direct	-4758 Mar 17 j 09:33	3° П 00'25	17.27017 AC
morning rise	-4764 Jun 24 j 23:41	10° 8 01'19		evening set	-4758 Jun 21 j 20:31	6° П 31'46	
-	3	13° 8 21'39		max. Earth dist.			19.28935 AU
retrograde	-4764 Sep 24 j 15:41		0002117	max. Earm dist.	-4758 Jul 07 j 00:22	/ Щ2843	19.28933 AU
opposition	-4764 Dec 06 j 22:45	11° 8 19'18	0°02'16		4750 I I 00:07 10	70 T 22126	0024117
min. Earth dist.	-4764 Dec 08 j 02:01		17.42839 AU	conjunction	-4758 Jul 08 j 07:19	7° Ⅱ 33'36	
direct	-4763 Feb 21 j 00:25	9° 8 13'06		minimum elong	-4758 Jul 08 j 07:19	7° Ⅱ 33'36	0°24'31
evening set	-4763 May 27 j 20:52	12° 8 41'09		morning rise	-4758 Jul 24 j 13:56	8° Ⅱ 34'50	
max. Earth dist.	-4763 Jun 12 j 04:14	13° 8 37'50	19.40872 AU	retrograde	-4758 Oct 23 j 18:04	11° Ⅱ 56'49	
				opposition	-4757 Jan 04 j 23:43	9° ∏ 54'50	
conjunction	-4763 Jun 13 j 13:11	13° 8 42'58	0°04'13	min. Earth dist.	-4757 Jan 06 j 01:43		17.28465 AU
minimum elong	-4763 Jun 13 j 13:11	13° 8 42'58	0°04'22	direct	-4757 Mar 22 j 14:55	7° Ⅱ 48'15	
behind sun begin	-4763 Jun 13 j 06:33	13° 8 41'57		evening set	-4757 Jun 27 j 01:09	11° Ⅱ 19'53	
behind sun end	-4763 Jun 13 j 19:49	13° 8 43'58		max. Earth dist.	-4757 Jul 12 j 05:29	12° Ⅱ 17'00	19.28017 AU
morning rise	-4763 Jun 30 j 01:50	14° 8 44'17					
	-4763 Jul 04 j 09:56	15° 8		conjunction	-4757 Jul 13 j 10:50	12° Ⅱ 21'39	0°27'56
retrograde	-4763 Sep 29 j 14:06	18° 8 05'00		minimum elong	-4757 Jul 13 j 10:49	12° Ⅱ 21'39	0°28'10
opposition	-4763 Dec 11 j 21:11	16° 8 02'41	0°06'55	morning rise	-4757 Jul 29 j 15:59	13° Ⅲ 22'47	
min. Earth dist.	-4763 Dec 13 j 01:17	15° 8 59'37	17.39131 AU	retrograde	-4757 Oct 28 j 17:13	16° Ⅱ 44'50	
	-4762 Jan 05 j 21:32	15° ₹ 8		opposition	-4756 Jan 10 j 01:52	14° Ⅱ 42'55	0°33'06
direct	-4762 Feb 26 j 00:18	13° 8 56'19		min. Earth dist.	-4756 Jan 11 j 04:09	14° Ⅱ 40′04	17.27790 AU
	-4762 Apr 16 j 22:44	15° 8		direct	-4756 Mar 26 j 18:07	12° Ⅲ 36′20	
evening set	-4762 Jun 02 j 01:16	17° 8 25'15		evening set	-4756 Jul 01 j 05:39	16° Ⅲ 08′08	
max. Earth dist.	-4762 Jun 17 j 08:22	18° 8 22'05	19.37449 AU	max. Earth dist.	-4756 Jul 16 j 08:40	17° Ⅱ 05'09	19.27596 AU
	, and the second				,		
conjunction	-4762 Jun 18 j 16:40	18° 8 27'07	0°08'21	conjunction	-4756 Jul 17 j 13:52	17° Ⅱ 09'46	0°31'24
minimum elong	-4762 Jun 18 j 16:40	18° 8 27'07	0°08'32	minimum elong	-4756 Jul 17 j 13:52		
behind sun begin	-4762 Jun 18 j 10:48	18° 8 26'14		morning rise	-4756 Aug 02 j 17:52	18° Ⅱ 10'47	
behind sun end	-4762 Jun 18 j 22:33	18° 8 28'01		retrograde	-4756 Nov 01 j 18:48	21° II 32'53	
morning rise	-4762 Jul 05 j 04:14	19° 8 28'29		opposition	-4755 Jan 14 j 04:22	19° ∏ 30'59	0°36'50
retrograde	-4762 Oct 04 j 15:33	22° 8 49'32		min. Earth dist.	-4755 Jan 15 j 04:52		17.27620 AU
opposition	-4762 Dec 16 j 20:14	20° 8 47'17	0°11'33	direct	-4755 Apr 01 j 00:29	17° Ⅲ 24'26	17.27020110
min. Earth dist.	-4762 Dec 17 j 23:26		17.35980 AU	evening set	-4755 Jul 06 j 09:27	20° Ⅲ 56'15	
direct	-4761 Mar 03 j 02:46	18° 8 40'50	17.55760 AC	evening set	-4/33 Jul 00 j 07.27	20 11 30 13	
	-4761 Jun 07 j 05:53	22° 8 10'31		conjunction	-4755 Jul 22 j 16:29	21° ∏ 57'45	0024127
evening set	-4/01 Juli 0/ J 05.55	22 01031		minimum elong	-4755 Jul 22 j 16:29	21° II 57'45	
conjunction	-4761 Jun 23 j 20:17	23° 8 12'26	0°12'28	max. Earth dist.	-4755 Jul 21 j 13:45		19.27682 AU
•	•	23° 8 12'26	0°12'39		-4755 Aug 07 j 19:01	21° II 53' 31' 22° II 58' 37	19.27082 AU
minimum elong	-4761 Jun 23 j 20:17		0 12 39	morning rise	0 3		
behind sun begin	-4761 Jun 23 j 16:04	23° 8 11'48		retrograde	-4755 Nov 06 j 17:44	26° Ⅱ 20'41	0940110
behind sun end	-4761 Jun 24 j 00:30	23° 8 13'05	10.24562.441	opposition	-4754 Jan 19 j 07:17	24° Ⅱ 18'49	
max. Earth dist.	-4761 Jun 22 j 12:05		19.34563 AU	min. Earth dist.	-4754 Jan 20 j 07:19		17.27970 AU
morning rise	-4761 Jul 10 j 06:38	24° 8 13'49		direct	-4754 Apr 06 j 05:10	22° Ⅱ 12'19	
retrograde	-4761 Oct 09 j 14:30	27° 8 35'10		evening set	-4754 Jul 11 j 12:55	25° Ⅱ 44'00	
opposition	-4761 Dec 21 j 20:11	25° 8 33'00	0°16'07				000-10-1
min. Earth dist.	-4761 Dec 23 j 00:15		17.33364 AU	conjunction	-4754 Jul 27 j 18:27	26° Ⅱ 45'20	
direct	-4760 Mar 07 j 03:26	23° 8 26'28		minimum elong	-4754 Jul 27 j 18:27	26° ∐ 45'20	
evening set	-4760 Jun 11 j 10:48	26° 8 56'51		max. Earth dist.	-4754 Jul 26 j 16:15		19.28317 AU
max. Earth dist.	-4760 Jun 26 j 16:07	27° 8 53'45	19.32202 AU	morning rise	-4754 Aug 12 j 19:53	27° Ⅱ 46′03	
					-4754 Sep 22 j 21:51	0 \circ	
conjunction	-4760 Jun 28 j 00:03	27° 8 58'46	0°16'31	retrograde	-4754 Nov 11 j 18:09	1° 5 08'02	
minimum elong	-4760 Jun 28 j 00:03	27° 8 58'46	0°16'44		-4753 Jan 02 j 21:22	30°RⅡ	
morning rise	-4760 Jul 14 j 09:13	29° 8 00'07		opposition	-4753 Jan 24 j 10:06	29° Ⅱ 06'11	0°43'29
	-4760 Jul 31 j 06:12	Π °0		min. Earth dist.	-4753 Jan 25 j 08:07	29° Ⅱ 03'48	17.28893 AU
retrograde	-4760 Oct 13 j 16:38	2° Ⅲ 21'44		direct	-4753 Apr 11 j 11:08	26° ∏ 59'44	
opposition	-4760 Dec 25 j 20:39	0°Ⅱ19'38	0°20'36		-4753 Jul 08 j 02:47	0 \circ \odot	

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 13 Attention, astronomical year style is used: The year -4753 in astronomical counting style is the year 4754 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ie year -4753 i	n astronomical co	unting style is the year	: 4754 BCE in historical c	ounting style.	
evening set	-4753 Jul 16 j 15:34	0°531'11		retrograde	-4747 Dec 14 j 13:25	4° Ω 14'22	
				opposition	-4746 Feb 27 j 06:38	2° Ω 13'14	0°56'17
conjunction	-4753 Aug 01 j 19:58	1° 5 32'20	0°40'19	min. Earth dist.	-4746 Feb 27 j 13:36	2° Ω 12'30	17.52116 AU
minimum elong	-4753 Aug 01 j 19:58	1° 5 32'20	0°40'35	direct	-4746 May 15 j 13:19	0° Ω 08'41	
max. Earth dist.	-4753 Jul 31 j 20:48	1° 5 28'39	19.29530 AU	evening set	-4746 Aug 18 j 14:24	3° Ω 35′21	
morning rise	-4753 Aug 17 j 20:01	2° © 32'52					
retrograde	-4753 Nov 16 j 17:20	5° © 54'42		conjunction	-4746 Sep 03 j 10:08	4° Ω 34'42	0°50'44
opposition	-4752 Jan 29 j 13:14	3° 9 52'53	0°46'22	minimum elong	-4746 Sep 03 j 10:08	4° Ω 34'42	0°50'56
min. Earth dist.	-4752 Jan 30 j 09:58	3° 5 50'39	17.30397 AU	max. Earth dist.	-4746 Sep 03 j 03:16	4° Ω 33'38	19.54714 AU
direct	-4752 Apr 15 j 16:02	1° 5 46'33		morning rise	-4746 Sep 19 j 02:59	5° Ω 33'38	
evening set	-4752 Jul 20 j 17:44	5° © 17'37		retrograde	-4746 Dec 19 j 10:39	8° £ 53′26	
				opposition	-4745 Mar 04 j 08:44	6° Ω 52′27	0°56'39
conjunction	-4752 Aug 05 j 20:37	6° © 18'33	0°42'45	min. Earth dist.	-4745 Mar 04 j 14:24	6° Ω 51'51	17.57426 AU
minimum elong	-4752 Aug 05 j 20:37	6° © 18'33	0°43'00	direct	-4745 May 20 j 14:43	4° Ω 48'17	
max. Earth dist.	-4752 Aug 04 j 22:31	6° © 15'03	19.31347 AU	evening set	-4745 Aug 23 j 11:03	8° Ω 13'55	
morning rise	-4752 Aug 21 j 19:34	7° © 18'54					
retrograde	-4752 Nov 20 j 17:07	10° 5 40'33		conjunction	-4745 Sep 08 j 05:47	9° Ω 12'58	
opposition	-4751 Feb 02 j 16:20	8° 5 38'46	0°48'54	minimum elong	-4745 Sep 08 j 05:47	9° Ω 12'58	0°51'06
min. Earth dist.	-4751 Feb 03 j 10:53	8° 5 36'47	17.32536 AU	max. Earth dist.	-4745 Sep 08 j 01:10	9° Ω 12'14	19.60184 AU
direct	-4751 Apr 20 j 20:29	6° 5 32'36		morning rise	-4745 Sep 23 j 21:55	10° Ω 11'37	
evening set	-4751 Jul 25 j 19:04	10° © 03'11		retrograde	-4745 Dec 24 j 08:15	13° Ω 30′59	
				opposition	-4744 Mar 08 j 10:28	11° Ω 30′07	0°56'39
conjunction	-4751 Aug 10 j 20:46	11° © 03'53	0°44'53	min. Earth dist.	-4744 Mar 08 j 13:00	11° Ω 29'52	17.63026 AU
minimum elong	-4751 Aug 10 j 20:46	11° © 03'53	0°45'07	direct	-4744 May 24 j 17:52	9° Ω 26′21	
max. Earth dist.	-4751 Aug 10 j 02:03	11° © 00'55	19.33807 AU	evening set	-4744 Aug 27 j 06:43	12° Ω 50'51	
morning rise	-4751 Aug 26 j 18:25	12° © 04'01					
retrograde	-4751 Nov 25 j 16:45	15° © 25'27		conjunction	-4744 Sep 12 j 00:32	13° Ω 49'36	0°50'44
opposition	-4750 Feb 07 j 19:32	13° © 23'46	0°51'06	minimum elong	-4744 Sep 12 j 00:32	13° Ω 49'36	0°50'55
min. Earth dist.	-4750 Feb 08 j 11:52	13° © 22'01	17.35307 AU	max. Earth dist.	-4744 Sep 11 j 22:26	13° Ω 49'16	19.65907 AU
direct	-4750 Apr 26 j 00:39	11° © 17'49		morning rise	-4744 Sep 27 j 15:56	14° Ω 47'59	
evening set	-4750 Jul 30 j 19:40	14° 5 347'48			-4744 Sep 30 j 22:59	15° Ω	
				retrograde	-4744 Dec 28 j 03:50	18° Ω 06'53	
conjunction	-4750 Aug 15 j 19:59	15° 5 348'16	0°46'42	opposition	-4743 Mar 13 j 11:58	16° Ω 06′08	0°56'16
minimum elong	-4750 Aug 15 j 19:59	15° 5 348'16	0°46'57	min. Earth dist.	-4743 Mar 13 j 13:17	16° Ω 05'59	17.68867 AU
max. Earth dist.	-4750 Aug 15 j 02:52	15° 5 945'34	19.36902 AU		-4743 Apr 10 j 08:37	15°R Ω	
morning rise	-4750 Aug 31 j 16:39	16° 5 348'11		direct	-4743 May 29 j 18:18	14° Ω 02'45	
retrograde	-4750 Nov 30 j 16:19	20°909'22			-4743 Jul 16 j 03:55	15° Ω	
opposition	-4749 Feb 12 j 22:32	18° 5 07'47	0°52'57	evening set	-4743 Sep 01 j 01:33	17° Ω 26′02	
min. Earth dist.	-4749 Feb 13 j 12:50	18° 5 06'16	17.38713 AU	-			
direct	-4749 May 01 j 03:32	16°902'07		conjunction	-4743 Sep 16 j 18:29	18° Ω 24'28	0°50'15
evening set	-4749 Aug 04 j 19:31	19° 5 31'26		minimum elong	-4743 Sep 16 j 18:29	18° Ω 24'28	0°50'26
•	•			max. Earth dist.	-4743 Sep 16 j 18:14	18° Ω 24'26	19.71857 AU
conjunction	-4749 Aug 20 j 18:42	20°531'38	0°48'12	morning rise	-4743 Oct 02 j 09:25	19° Ω 22'36	
minimum elong	-4749 Aug 20 j 18:42	20° © 31'38	0°48'25	retrograde	-4742 Jan 02 j 00:19	22° Ω 40′59	
max. Earth dist.	-4749 Aug 20 j 04:47	20°\$29'26	19.40608 AU	opposition	-4742 Mar 18 j 12:37	20° Ω 40'18	0°55'32
morning rise	-4749 Sep 05 j 14:14	21° © 31'19		min. Earth dist.	-4742 Mar 18 j 10:43	20° Ω 40'30	17.74902 AU
retrograde	-4749 Dec 05 j 15:52	24°952'11		direct	-4742 Jun 03 j 19:44	18° Ω 37'17	
opposition	-4748 Feb 18 j 01:18	22°950'46	0°54'26	evening set	-4742 Sep 05 j 19:17	21° Ω 59′20	
min. Earth dist.	-4748 Feb 18 j 12:59	22°5649'31	17.42684 AU	-	- •		
direct	-4748 May 05 j 07:12	20°545'27		conjunction	-4742 Sep 21 j 11:33	22° N 57'27	0°49'27
evening set	-4748 Aug 08 j 18:43	24°9513'58		minimum elong	-4742 Sep 21 j 11:33	22° N 57'27	0°49'37
C	C 3			max. Earth dist.	-4742 Sep 21 j 14:02	22° Ω 57'51	19.77972 AU
conjunction	-4748 Aug 24 j 16:37	25°©13'55	0°49'23	morning rise	-4742 Oct 07 j 01:57	23° Ω 55'19	
minimum elong	-4748 Aug 24 j 16:37	25° © 13'55	0°49'37	retrograde	-4741 Jan 06 j 18:26	27° Ω 13′09	
max. Earth dist.	-4748 Aug 24 j 04:39		19.44853 AU	opposition	-4741 Mar 23 j 12:47	25° Ω 12'33	0°54'27
morning rise	-4748 Sep 09 j 11:13	26° © 13'21		min. Earth dist.	-4741 Mar 23 j 09:47		17.81094 AU
retrograde	-4748 Dec 09 j 14:45	29° © 33'55		direct	-4741 Jun 08 j 18:20	23° Ω 09'54	
opposition	-4747 Feb 22 j 04:08	27°532'37	0°55'33	evening set	-4741 Sep 10 j 12:05	26° Ω 30'37	
min. Earth dist.	-4747 Feb 22 j 14:06		17.47183 AU	· ·	1 13		
direct	-4747 May 10 j 09:28	25°\$27'40		conjunction	-4741 Sep 26 j 03:36	27° Ω 28'26	0°48'21
evening set	-4747 Aug 13 j 16:52	28°955'20		minimum elong	-4741 Sep 26 j 03:36	27° Ω 28'26	0°48'29
<i>3</i>				max. Earth dist.	-4741 Sep 26 j 07:41	27° Ω 29'04	19.84246 AU
conjunction	-4747 Aug 29 j 13:42	29° © 54'58	0°50'13	morning rise	-4741 Oct 11 j 17:43	28° Ω 26'03	2.2.2.0110
minimum elong	-4747 Aug 29 j 13:42	29°954'58	0°50'26		-4741 Nov 08 j 15:37	0° my	
max. Earth dist.	-4747 Aug 29 j 04:36		19.49587 AU	retrograde	-4740 Jan 11 j 13:36	1° Mp 43'18	
and	-4747 Aug 30 j 21:33	0°Ω		0	-4740 Mar 20 j 12:38	30°RΩ	
morning rise	-4747 Sep 14 j 07:23	0° Ω 54'09		opposition	-4740 Mar 27 j 12:04	29° Ω 42'44	0°53'02
<i>5 -</i>	r J 07.23			11	=. y .=.v !		-

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 14 Attention, astronomical year style is used: The year -4740 in astronomical counting style is the year 4741 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -4740 i	n astronomical co	unting style is the year	4741 BCE in historical c	ounting style.	
min. Earth dist.	-4740 Mar 27 j 05:48	29° Ω 43'23	17.87436 AU	max. Earth dist.	-4734 Oct 26 j 17:03	28° My $12'08$	20.32171 AU
direct	-4740 Jun 12 j 17:54	27° Ω 40′26		morning rise	-4734 Nov 10 j 10:02	29° m 04'59	
	-4740 Aug 27 j 23:00	0° m			-4734 Nov 26 j 13:48	0∘ ⊽	
evening set	-4740 Sep 14 j 03:48	0° m 59'49		retrograde	-4733 Feb 11 j 05:10	2° ≙ 18′15	
				opposition	-4733 Apr 29 j 10:02	0° ჲ 18'21	
conjunction	-4740 Sep 29 j 18:50	1° m 57'20		min. Earth dist.	-4733 Apr 28 j 13:22		18.35698 AU
minimum elong	-4740 Sep 29 j 18:50	1° m 57'20	0°47'05		-4733 May 06 j 23:43	30°R, Mp	
max. Earth dist.	-4740 Sep 30 j 02:03		19.90664 AU	direct	-4733 Jul 15 j 02:44	28° m 18'58	
morning rise	-4740 Oct 15 j 08:33	2° m 54'41			-4733 Sep 17 j 09:22	0∘ ত	
retrograde	-4739 Jan 15 j 06:09	6° Mp 11'21		evening set	-4733 Oct 14 j 16:38	1° ≏ 29'07	
opposition	-4739 Apr 01 j 10:51	4° Mp 10'50					
min. Earth dist.	-4739 Apr 01 j 03:14	-	17.93938 AU	conjunction	-4733 Oct 30 j 05:49	2° £ 24'47	
direct	-4739 Jun 17 j 14:33	2° Mp 08'54		minimum elong	-4733 Oct 30 j 05:49	2° ≏ 24'47	
evening set	-4739 Sep 18 j 18:29	5° Mp 26'54		max. Earth dist.	-4733 Oct 31 j 03:22		20.39188 AU
. ,.	4730 0 4 04:00 55	(0 m, 2 4107	0045110	morning rise	-4733 Nov 14 j 20:07	3° ₽ 20'36	
conjunction	-4739 Oct 04 j 08:55	6° Mp 24'07		retrograde	-4732 Feb 15 j 19:34	6° ₽ 33'20	10 42654 ATT
minimum elong	-4739 Oct 04 j 08:55	6° Mp 24'08	0°45'24 19.97256 AU	min. Earth dist.	-4732 May 02 j 04:45		18.42654 AU
max. Earth dist.	-4739 Oct 04 j 17:45	•	19.97236 AU	opposition	-4732 May 03 j 03:17	4° ♀ 33'34 2° ♀ 34'37	0-32-10
morning rise	-4739 Oct 19 j 22:35	7° Mp 21'14		direct	-4732 Jul 18 j 17:12 -4732 Oct 18 j 01:45	5° £ 43'32	
retrograde opposition	-4738 Jan 20 j 00:12 -4738 Apr 06 j 08:40	10° Mp 37'19 8° Mp 36'50	0°49'18	evening set	-4/32 Oct 18 J 01.43	3 ==43 32	
min. Earth dist.	-4738 Apr 05 j 21:46		18.00614 AU	agnismation	4722 Nov. 02 : 15:11	6° £ 38'59	002720
	-4738 Apr 03 j 21.46 -4738 Jun 22 j 11:45	6° Mp 35'15	18.00014 AU	conjunction minimum elong	-4732 Nov 02 j 15:11 -4732 Nov 02 j 15:11	6° £ 38'59	
direct evening set	-4738 Sep 23 j 08:16	9° Mp 51'54		max. Earth dist.	-4732 Nov 02 j 15.11 -4732 Nov 03 j 15:20		20.46048 AU
evening set	-4/36 Sep 23 J 06.10	9 111/31 34		morning rise	-4732 Nov 18 j 05:40	ი = 42 30 7° • 34'38	20.40048 AU
conjunction	-4738 Oct 08 j 22:24	10° m) 48'51	0.043,53	retrograde	-4731 Feb 19 j 08:45	10° £ 46'51	
minimum elong	-4738 Oct 08 j 22:24	10° mp 48'51		opposition	-4731 May 07 j 19:45	8° £ 4031	0.58130
max. Earth dist.	-4738 Oct 08 j 22.24 -4738 Oct 09 j 10:32		20.04008 AU	min. Earth dist.	-4731 May 06 j 20:05		18.49408 AU
morning rise	-4738 Oct 07 j 10:32	11° m) 45'43	20.04000 AC	direct	-4731 Jul 23 j 08:34	6° ≏ 48'39	10.47400 AC
retrograde	-4737 Jan 24 j 15:28	15° m) 01'11		evening set	-4731 Oct 22 j 10:24	9° ≏ 56'22	
opposition	-4737 Apr 11 j 05:37	13° My 00'48	0°47'01	evening set	-4/31 Oct 22 j 10.24) — 3022	
min. Earth dist.	-4737 Apr 10 j 17:16		18.07449 AU	conjunction	-4731 Nov 06 j 23:50	10° ≏ 51'38	0°24'16
direct	-4737 Jun 27 j 06:17	10° m 59'37	10.07117110	minimum elong	-4731 Nov 06 j 23:50	10° ⊆ 51'38	
evening set	-4737 Sep 27 j 21:14	14° Mp 14'56		max. Earth dist.	-4731 Nov 08 j 00:08		20.52679 AU
e venning see	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		morning rise	-4731 Nov 22 j 14:57	11° Ω 47'06	20.02079110
conjunction	-4737 Oct 13 j 10:53	15° m) 11'35	0°41'14	retrograde	-4730 Feb 23 j 21:49	14° £ 58'49	
minimum elong	-4737 Oct 13 j 10:54	15° m) 11'35		min. Earth dist.	-4730 May 11 j 10:39		18.55906 AU
max. Earth dist.	-4737 Oct 14 j 00:24	•	20.10925 AU	opposition	-4730 May 12 j 11:28	12° £ 59'14	
morning rise	-4737 Oct 29 j 00:25	16° m 08'13		direct	-4730 Jul 27 j 21:26	11° ≏ 01'03	
retrograde	-4736 Jan 29 j 08:18	19° m 23'08		evening set	-4730 Oct 26 j 18:23	14° ≙ 07'38	
min. Earth dist.	-4736 Apr 14 j 10:28	17° m) 24'24	18.14436 AU	•	v		
opposition	-4736 Apr 15 j 01:51	17° m 22'50	0°44'29	conjunction	-4730 Nov 11 j 08:12	15° ≏ 02'42	0°20'56
direct	-4736 Jul 01 j 00:59	15° m 22'05		minimum elong	-4730 Nov 11 j 08:12	15° ≏ 02'42	0°20'52
evening set	-4736 Oct 01 j 09:05	18° m 36'03		max. Earth dist.	-4730 Nov 12 j 10:36	15° ≏ 06'37	20.59006 AU
				morning rise	-4730 Nov 26 j 23:37	15° ≙ 58'01	
conjunction	-4736 Oct 16 j 22:40	19° m 32'28	0°38'51	retrograde	-4729 Feb 28 j 09:20	19° ≏ 09'12	
minimum elong	-4736 Oct 16 j 22:40	19° m 32'28	0°38'55	min. Earth dist.	-4729 May 16 j 00:30	17° ≙ 12'17	18.62060 AU
max. Earth dist.	-4736 Oct 17 j 15:30	19° m 35'01	20.17963 AU	opposition	-4729 May 17 j 02:16	17° ≏ 09'42	0°21'14
morning rise	-4736 Nov 01 j 12:07	20° Mp 28° 52		direct	-4729 Aug 01 j 11:33	15° ≙ 11'50	
retrograde	-4735 Feb 01 j 23:15	23° Mp 43'13		evening set	-4729 Oct 31 j 01:57	18° ≏ 17'18	
opposition	-4735 Apr 19 j 21:28	21° Mp 43'03	0°41'42				
min. Earth dist.	-4735 Apr 19 j 04:34	21° Mp 44'46	18.21513 AU	conjunction	-4729 Nov 15 j 15:54	19° ≏ 12'11	0°17'30
direct	-4735 Jul 05 j 18:10	19° m 42'45		minimum elong	-4729 Nov 15 j 15:54	19° ≏ 12'11	0°17'26
evening set	-4735 Oct 05 j 20:24	22° m 55'25		max. Earth dist.	-4729 Nov 16 j 18:06	19° ≙ 16′03	20.64986 AU
				morning rise	-4729 Dec 01 j 08:04	20° ჲ 07'22	
conjunction	-4735 Oct 21 j 09:41	23° m 51'34	0°36'17	retrograde	-4728 Mar 03 j 21:14	23° ≏ 18′03	
minimum elong	-4735 Oct 21 j 09:41	23° m 51'34	0°36'19	opposition	-4728 May 20 j 16:29	21° ≏ 18'34	0°17'23
max. Earth dist.	-4735 Oct 22 j 03:36	23° m 54'17	20.25071 AU	min. Earth dist.	-4728 May 19 j 14:01	21° ≏ 21'13	18.67866 AU
morning rise	-4735 Nov 05 j 23:28	24° Mp 47'46		direct	-4728 Aug 04 j 22:46	19° ≙ 20'57	
retrograde	-4734 Feb 06 j 14:55	28° Mp 01'34		evening set	-4728 Nov 03 j 08:40	22° ≏ 25'20	
opposition	-4734 Apr 24 j 16:03	26° Mp 01'31	0°38'43				
min. Earth dist.	-4734 Apr 23 j 20:42	26° Mp 03'29	18.28634 AU	conjunction	-4728 Nov 18 j 23:10	23° ♀ 20'04	0°14'01
direct	-4734 Jul 10 j 10:25	24° Mp 01'41		minimum elong	-4728 Nov 18 j 23:11	23° ⊆ 20'04	0°13'56
evening set	-4734 Oct 10 j 06:48	27° m 13'05		behind sun begin	-4728 Nov 18 j 19:41	23° ₽ 19'34	
	10010 - 55155	200=-0-:-	0000101	behind sun end	-4728 Nov 19 j 02:40	23° £ 20'34	00 50 50 5
conjunction	-4734 Oct 25 j 20:10	28° Mp 08'59	0°33'31	max. Earth dist.	-4728 Nov 20 j 03:19		20.70602 AU
minimum elong	-4734 Oct 25 j 20:10	28°Mp08'59	0°33'32	morning rise	-4728 Dec 04 j 15:48	24° £ 15′07	

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4727 in astronomical counting style is the year 4728 BCE in historical counting style. retrograde -4727 Mar 08 j 07:06 27°**♀**25'18 opposition -4722 Jun 15 j 13:00 15°ML40'51 -0°06'18 min. Earth dist. -4727 May 24 j 02:25 25°**Ω**28'34 18.73292 AU -4722 Jul 02 j 21:46 15°R**M**ե

IIIII. Eartii dist.	-4/2/ May 24 J 02.23		18.73292 AU		-4/22 Jul 02 J 21.40	13 KIIG	
opposition	-4727 May 25 j 05:49	25° ≏ 25'49	0°13'28	direct	-4722 Aug 30 j 06:04	13°M44'24	
direct	-4727 Aug 09 j 11:14	23° ₽ 28'27			-4722 Oct 24 j 14:41	15° M ₊	
evening set	-4727 Nov 07 j 15:07	26° £ 31'47		evening set	-4722 Nov 27 j 16:35	16°M43'40	
e vennig see	1,2,110, 0, 110.0,	20 - 31 .7		evening see	.,221.0, 2, 110.50	10 110 15 10	
	4707 N 22 : 05 55	270 0 26121	0010120	. ,.	4722 D 12:10:20	170 m 27147	0007130
conjunction	-4727 Nov 23 j 05:55	27° £ 26'21	0°10'28	conjunction	-4722 Dec 13 j 10:30	17°ML37'47	
minimum elong	-4727 Nov 23 j 05:54	27° ≏ 26'21	0°10'22	minimum elong	-4722 Dec 13 j 10:30	17° M 37'47	0°07'38
behind sun begin	-4727 Nov 23 j 00:42	27° £ 25'37		behind sun begin	-4722 Dec 13 j 04:32	17°M36'57	
behind sun end	-4727 Nov 23 j 11:06	27° ₽ 27′06		behind sun end	-4722 Dec 13 j 16:28	17° M 38'37	
max. Earth dist.	-4727 Nov 24 j 09:45		20.75852 AU	max. Earth dist.	-4722 Dec 14 j 18:32		20.97383 AU
	•		20.73032710		,		20.77303710
morning rise	-4727 Dec 08 j 23:24	28° ≙ 21'18		morning rise	-4722 Dec 29 j 07:46	18°M32'24	
	-4726 Jan 09 j 10:02	0°M₊		retrograde	-4721 Apr 02 j 14:02	21°M40'15	
retrograde	-4726 Mar 12 j 17:42	1°MJ31'00		opposition	-4721 Jun 19 j 22:03	19° M 40'47	-0°10'11
	-4726 May 17 j 18:47	30°R ≏		min. Earth dist.	-4721 Jun 18 j 15:46	19°M43'48	18.99139 AU
opposition	-4726 May 29 j 18:14	29° £ 31'29	0°09'31	direct	-4721 Sep 03 j 13:54	17° M 44'31	
			18.78380 AU			20°M43'13	
min. Earth dist.	-4726 May 28 j 14:32		16.76360 AU	evening set	-4721 Dec 01 j 21:08	20 11643 13	
direct	-4726 Aug 13 j 20:41	27° ≏ 34'17					
	-4726 Oct 31 j 21:36	0° M .		conjunction	-4721 Dec 17 j 15:38	21°MJ37'18	-0°10'57
evening set	-4726 Nov 11 j 20:53	0°M36'40		minimum elong	-4721 Dec 17 j 15:38	21°MJ37'18	0°11'07
•	·			behind sun begin	-4721 Dec 17 j 10:42	21°M36'36	
aamiumatiam	4726 Nov. 27 : 12:20	10 m 21107	0°06'55	behind sun end	-4721 Dec 17 j 20:34	21°ML37'59	
conjunction	-4726 Nov 27 j 12:20	1°ML31'07			3		
minimum elong	-4726 Nov 27 j 12:20	1°ML31'07	0°06'49	max. Earth dist.	-4721 Dec 18 j 22:48		21.00721 AU
behind sun begin	-4726 Nov 27 j 06:13	1°MJ30'15		morning rise	-4720 Jan 02 j 13:59	22°M31'54	
behind sun end	-4726 Nov 27 j 18:26	1°M31'59		retrograde	-4720 Apr 05 j 22:07	25°M39'32	
max. Earth dist.	-4726 Nov 28 j 18:02	1°M-35'27	20.80767 AU	min. Earth dist.	-4720 Jun 22 j 01:16	23°M-43'04	19.02294 AU
morning rise	-4726 Dec 13 j 06:22	2°M25'57		opposition	-4720 Jun 23 j 06:49	23°M40'06	
•	3						-0 1401
retrograde	-4725 Mar 17 j 02:28	5°M35'11		direct	-4720 Sep 06 j 19:05	21°M44'00	
min. Earth dist.	-4725 Jun 02 j 01:11	3°M38'32	18.83133 AU	evening set	-4720 Dec 05 j 01:25	24°M42'14	
opposition	-4725 Jun 03 j 05:55	3°M35'39	0°05'33				
direct	-4725 Aug 18 j 07:11	1°MJ38'39		conjunction	-4720 Dec 20 j 20:53	25°MJ36'18	-0°14'22
evening set	-4725 Nov 16 j 02:16	4° M 40'07		minimum elong	-4720 Dec 20 j 20:53	25°M36'18	
evening set	4723 110V 10 J 02.10	4 1104007				25°M35'53	0 1434
				behind sun begin	-4720 Dec 20 j 17:57		
conjunction	-4725 Dec 01 j 18:03	5° M 34′27	0°03'21	behind sun end	-4720 Dec 20 j 23:49	25°M36'42	
minimum elong	-4725 Dec 01 j 18:03	5°M34'27	0°03'12	max. Earth dist.	-4720 Dec 22 j 05:03	25°M40'55	21.03669 AU
behind sun begin	-4725 Dec 01 j 11:32	5°M33'32		morning rise	-4719 Jan 05 j 20:01	26°M30'53	
behind sun end	-4725 Dec 02 j 00:34	5°M35'22		retrograde	-4719 Apr 10 j 06:59	29°M38'20	
	v		20.05260 ATT	-	1 7		10.05010 ATT
max. Earth dist.	-4725 Dec 02 j 23:31		20.85368 AU	min. Earth dist.	-4719 Jun 26 j 09:05		19.05019 AU
morning rise	-4725 Dec 17 j 13:00	6° M 29′13		opposition	-4719 Jun 27 j 15:00	27°M38'58	-0°17'46
retrograde	-4724 Mar 20 j 11:53	9°MJ38'03		direct	-4719 Sep 11 j 01:46	25°M43'02	
opposition	-4724 Jun 06 j 17:01	7°M38'29	0°01'35	evening set	-4719 Dec 09 j 06:04	28°M40'52	
min. Earth dist.	-4724 Jun 05 j 12:08	7° m .41'22	18.87599 AU	· ·	,		
direct	-4724 Aug 21 j 14:57	5°M41'40	10.07577110	conjunction	-4719 Dec 25 i 02:11	29°M34'55	0017142
	• •			•	,		
desc. node	-4724 Nov 02 j 05:03	7°M46'32		minimum elong	-4719 Dec 25 j 02:10	29°M34'55	
evening set	-4724 Nov 19 j 07:15	8°M42'19		max. Earth dist.	-4719 Dec 26 j 08:56	29°M39'19	21.06163 AU
					-4718 Jan 01 j 09:27	0° ∡ ¹	
conjunction	-4724 Dec 04 j 23:49	9°M36'33	-0°00'20	morning rise	-4718 Jan 10 j 02:24	0° ҂ ¹29'32	
minimum elong	-4724 Dec 04 j 23:49	9°M36'33	0°00'28	retrograde	-4718 Apr 14 j 14:44	3° ∡ 136'50	
	v		0 00 20	-	1 7		0021126
behind sun begin	-4724 Dec 04 j 17:17	9°M35'38		opposition	-4718 Jul 01 j 22:45	1° ∡ ³37'31 −	
behind sun end	-4724 Dec 05 j 06:21	9° M 37′28		min. Earth dist.	-4718 Jun 30 j 18:12		19.07276 AU
max. Earth dist.	-4724 Dec 06 j 07:00	9° ™ 41′05	20.89680 AU		-4718 Aug 19 j 01:41	30°RM₊	
morning rise	-4724 Dec 20 j 19:24	10°MJ31'15		direct	-4718 Sep 15 j 06:28	29° M 41'41	
retrograde	-4723 Mar 24 j 20:39	13°M39'42			-4718 Oct 11 j 23:12	0° ⊼ ¹	
•	v		18.91762 AU	avanina aat		2° х 39'12	
min. Earth dist.	-4723 Jun 09 j 21:24			evening set	-4718 Dec 13 j 10:35	2 8.39 12	
opposition	-4723 Jun 11 j 03:15	11°ML40'09	-0°02'22				
direct	-4723 Aug 25 j 23:55	9° M 43'31		conjunction	-4718 Dec 29 j 07:43	3° х 33'16	-0°21'00
evening set	-4723 Nov 23 j 12:07	12°M43'26		minimum elong	-4718 Dec 29 j 07:43	3° х ⁴33'16	0°21'13
				max. Earth dist.	-4718 Dec 30 j 14:53	3° ∡ 737'44	21.08160 AU
conjunction	-4723 Dec 09 j 05:12	13°M37'36	-0°03'57	morning rise	-4717 Jan 14 j 08:43	4° × ⁷ 27'54	
	•			-			
minimum elong	-4723 Dec 09 j 05:11	13°M37'36	0°04'07	retrograde	-4717 Apr 18 j 23:27	7° ∡ ³35′05	
behind sun begin	-4723 Dec 08 j 22:43	13°M36'41		min. Earth dist.	-4717 Jul 05 j 01:35	5° ҂ ³38'40	19.08999 AU
behind sun end	-4723 Dec 09 j 11:39	13°MJ38'30		opposition	-4717 Jul 06 j 06:10	5° ∡ ³35'48	-0°25'00
max. Earth dist.	-4723 Dec 10 j 11:49		20.93692 AU	direct	-4717 Sep 19 j 12:15	3° ∡ ¹40′03	
morning rise	-4723 Dec 25 j 01:47	14°MJ32'15	= -••	evening set	-4717 Dec 17 j 15:16	6° × ⁷ 37'19	
morning 1150				evening set	1/1/ Dec 1/ J 15.10	0 7 3/19	
	-4722 Jan 02 j 09:41	15° M ₊		_			
retrograde	-4722 Mar 29 j 05:15	17° M 40'23		conjunction	-4716 Jan 02 j 13:06	7° ∡ ³31'25	-0°24'10
min. Earth dist.	-4722 Jun 14 j 07:27	15° M 43'49	18.95625 AU	minimum elong	-4716 Jan 02 j 13:06	7° ∡ ³31'24	0°24'22

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4716 in astronomical counting style is the year 4717 BCE in historical counting style. 7°**尽**35'36 21.09604 AU -4716 Jan 03 j 18:28 opposition -4710 Aug 03 j 01:56 3°る20'05 -0°45'33 max. Earth dist. -4716 Jan 18 j 15:15 8°**х** 26′06 direct -4710 Oct 16 j 19:45 1°る23'37 morning rise -4716 Apr 22 j 07:10 11°**₹**33'12 -4709 Jan 14 j 04:56 4°る20'57 retrograde evening set -4716 Jul 08 j 10:35 min. Earth dist. 9°**х** 36'35 19.10160 AU -4716 Jul 09 j 13:28 9°**∡**33'54 -0°28'26 -4709 Jan 30 j 09:51 5°る15'44 -0°42'12 opposition conjunction 7°**х** 38′09 -4709 Jan 30 j 09:51 direct -4716 Sep 22 j 16:40 minimum elong 5°**ට**15'44 0°42'26 -4716 Dec 20 j 20:03 -4709 Jan 31 j 08:24 evening set 10°**х** 35′13 max. Earth dist. 5°る18'56 21.04856 AU -4709 Feb 15 j 18:48 morning rise 6°**ප**11'06 -4709 May 21 j 16:13 conjunction -4715 Jan 05 j 19:00 11°**₹**29'22 -0°27'12 retrograde 9°중18'17 11°**∡**°29′22 0°27′26 7°る20'21 19.03762 AU minimum elong -4715 Jan 05 j 19:00 min. Earth dist. -4709 Aug 06 j 11:47 7°る18'21 -0°47'43 max. Earth dist. -4715 Jan 07 j 00:23 11°**✗**33'33 21.10469 AU opposition -4709 Aug 07 j 07:24 -4715 Jan 21 j 22:00 -4709 Oct 21 j 01:18 morning rise 12°**х** 24′07 direct 5°₹21'43 -4715 Apr 26 j 15:49 -4708 Jan 18 j 11:34 8°**る**19'23 retrograde 15°**∡**31'07 evening set opposition -4715 Jul 13 j 20:07 13°**∡**31'47 -0°31'43 min. Earth dist. -4715 Jul 12 j 17:31 13°**∡**34'28 19.10723 AU conjunction -4708 Feb 03 j 17:22 9°る14'19 -0°44'04 direct -4715 Sep 26 j 22:25 11°**х** 36′01 minimum elong -4708 Feb 03 j 17:22 9°る14'19 0°44'18 evening set -4715 Dec 25 j 01:07 14°**∡**32'57 max. Earth dist. -4708 Feb 04 j 13:36 9°る17'11 21.02508 AU morning rise -4708 Feb 20 j 03:27 10°る09'51 conjunction -4714 Jan 10 j 00:53 15°**х** 27'09 -0°30'07 retrograde -4708 May 25 j 00:37 13°る17'13 minimum elong -4714 Jan 10 j 00:52 15°**∡**27'09 0°30'20 opposition -4708 Aug 10 j 13:04 11°る17'13 -0°49'40 max. Earth dist. -4714 Jan 11 j 04:06 15°**∡**'31'02 21.10745 AU min. Earth dist. -4708 Aug 09 j 19:43 11°る18'59 19.01240 AU morning rise -4714 Jan 26 i 05:03 16°**∡**121′58 direct -4708 Oct 24 i 04:44 9°る20'24 retrograde -4714 Apr 30 j 23:07 19°**∡** 28'56 evening set -4707 Jan 21 j 18:43 12°る18'29 min. Earth dist. -4714 Jul 17 i 02:04 17°**х** 31′59 19.10719 AU opposition -4714 Jul 18 j 02:41 17°**∡**¹29'31 -0°34'51 conjunction -4707 Feb 07 i 01:45 13°る13'37 -0°45'43 -4714 Oct 01 j 02:02 15°**х** 33'39 -4707 Feb 07 j 01:45 13°る13'37 0°45'57 direct minimum elong -4714 Dec 29 j 06:02 18°**х** 30′30 max. Earth dist. -4707 Feb 07 j 21:22 13°る16'24 20.99814 AU evening set -4707 Feb 23 j 12:38 14°る09'18 morning rise -4713 Jan 14 j 06:55 19°**₹**24'48 -0°32'52 -4707 May 29 j 09:59 17°**る**16'53 conjunction retrograde -4713 Jan 14 j 06:55 19°**∡**'24'48 -4707 Aug 14 j 18:29 15°る16'50 -0°51'24 minimum elong 0°33'07 opposition -4713 Jan 15 j 10:07 -4707 Aug 14 j 01:42 15°る18'33 18.98358 AU max. Earth dist. 19°**✗**28'40 21.10470 AU min. Earth dist. -4713 Jan 30 j 11:54 -4707 Oct 28 j 10:08 20°**х** 19'41 direct 13°**る**19'51 morning rise -4713 May 05 j 07:52 -4706 Jan 26 j 02:40 23°**х** 26'37 16°る18'27 retrograde evening set 21°**₹**'29'33 19.10179 AU -4713 Jul 21 j 08:26 min. Earth dist. 21°**∡**127′05 -0°37′49 -4706 Feb 11 j 10:33 -4713 Jul 22 j 08:47 17°る13'46 -0°47'10 opposition conjunction 19°**∡**³31′06 17°る13'46 0°47'24 -4713 Oct 05 j 08:04 -4706 Feb 11 j 10:33 direct minimum elong 22°**х** 27'57 -4712 Jan 02 j 11:23 -4706 Feb 12 j 03:30 evening set max. Earth dist. 17°る16'10 20.96751 AU -4706 Feb 27 j 22:29 morning rise 18°**る**09'38 conjunction -4712 Jan 18 j 13:06 23°**₹**22'21 -0°35'28 retrograde -4706 Jun 02 j 19:08 21°る17'30 minimum elong -4712 Jan 18 j 13:06 23°**₹**22'21 0°35'43 min. Earth dist. -4706 Aug 18 j 10:09 19°る18'52 18.95107 AU max. Earth dist. -4712 Jan 19 j 14:15 23°**✗**25'55 21.09692 AU opposition -4706 Aug 19 j 00:21 19°る17'24 -0°52'52 -4712 Feb 03 j 19:15 24°**х** 17′20 direct -4706 Nov 01 j 14:11 17°る20'14 morning rise retrograde -4712 May 08 j 14:48 27°**₹**24'16 -4705 Jan 30 j 10:57 20°る19'25 evening set -4712 Jul 25 j 14:45 25°**∡**¹24'38 -0°40'35 opposition -4712 Jul 24 j 16:26 25°**✗**¹26'53 19.09179 AU conjunction -4705 Feb 15 j 19:59 21°る14'57 -0°48'23 min. Earth dist. -4712 Oct 08 i 10:54 -4705 Feb 15 i 19:59 direct 23°×28'29 minimum elong 21°る14'57 0°48'37 evening set -4711 Jan 05 i 16:49 26°**х** 25′25 max. Earth dist. -4705 Feb 16 i 12:02 21°る17'14 20.93309 AU morning rise -4705 Mar 04 i 08:40 22°る11'00 conjunction -4711 Jan 21 i 19:44 27°**х** 19'55 -0°37'53 retrograde -4705 Jun 07 j 05:29 25°る19'12 opposition minimum elong -4711 Jan 21 i 19:44 27°**х** 19'55 0°38'08 -4705 Aug 23 i 06:15 23°る19'04 -0°54'06 23°る20'26 18.91453 AU max. Earth dist. -4711 Jan 22 j 20:47 27°**₹**23'28 21.08477 AU min. Earth dist. -4705 Aug 22 j 16:53 -4711 Feb 07 j 02:45 28°×15'01 direct -4705 Nov 05 j 20:08 21°る21'41 morning rise -4711 Mar 14 j 01:39 0°궁 -4704 Feb 03 j 20:18 24°る21'32 evening set 1°る21'59 retrograde -4711 May 12 j 23:54 -4711 Jul 14 j 01:13 30°R.✓ conjunction -4704 Feb 20 j 06:11 25°る17'17 -0°49'22 opposition -4711 Jul 29 j 20:23 29° 22'14 -0°43'10 minimum elong -4704 Feb 20 j 06:11 25°る17'17 0°49'35 min. Earth dist. -4711 Jul 28 j 22:22 29°**✗**24'28 19.07749 AU max. Earth dist. -4704 Feb 20 j 19:14 25°る19'08 20.89444 AU -4711 Oct 12 j 16:51 27°**х** 25′56 -4704 Mar 07 j 19:50 26°る13'33 direct morning rise -4710 Jan 02 j 22:05 0°る -4704 Jun 10 j 14:59 29°る22'05 retrograde -4710 Jan 09 j 22:49 0°る23'02 -4704 Aug 26 j 12:29 27°る21'54 -0°55'04 evening set opposition -4704 Aug 26 j 02:07 27°る22'58 18.87370 AU min. Earth dist. conjunction -4710 Jan 26 j 02:32 1°る17'39 -0°40'08 direct -4704 Nov 09 j 00:56 25°る24'17 minimum elong -4710 Jan 26 j 02:32 1°**る**17'39 0°40'23 evening set -4703 Feb 07 j 06:19 28°る24'52 max. Earth dist. -4710 Jan 27 j 01:22 1°る20'54 21.06847 AU morning rise -4710 Feb 11 j 10:40 2°る12'53 conjunction -4703 Feb 23 j 17:22 29°**ට**20'51 -0°50'07 -4710 May 17 j 07:07 5°る19'56 minimum elong -4703 Feb 23 j 17:22 29°る20'51 0°50'20 retrograde -4710 Aug 02 j 06:02 3°る22'07 19.05937 AU max. Earth dist. -4703 Feb 24 j 04:53 29°る22'30 20.85135 AU min. Earth dist.

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 17

•	nical year style is used: Th		-	* **			age 17
Attention, astronon	-4703 Mar 07 j 04:13	0°≈	in astronomical co	retrograde	-4697 Jul 11 j 01:34	28°≈18'57	
morning rise	-4703 Mar 12 j 07:43	0°≈17'20		opposition	-4697 Sep 24 j 17:09	26°≈17'50	-0°53'52
retrograde	-4703 Jun 15 j 02:43	3°≈26'13		min. Earth dist.	-4697 Sep 24 j 20:09		18.47634 AU
opposition	-4703 Aug 30 j 18:57	1° ≈ 25'58	-0°55'46	direct	-4697 Dec 08 j 09:28	24°≈17'38	
min. Earth dist.	-4703 Aug 30 j 09:43	1°≈26'55	18.82818 AU	evening set	-4696 Mar 09 j 01:31	27° ≈ 24'52	
	-4703 Oct 08 j 13:39	30°Ŗる		-			
direct	-4703 Nov 13 j 08:04	29° る 28'04		conjunction	-4696 Mar 25 j 18:34	28° ≈ 22'46	-0°48'02
	-4703 Dec 18 j 14:10	0° ≈		minimum elong	-4696 Mar 25 j 18:34	28° ≈ 22'46	0°48'10
evening set	-4702 Feb 11 j 17:11	2° ≈ 29'27		max. Earth dist.	-4696 Mar 25 j 12:55	28° ≈ 21'57	20.44349 AU
				morning rise	-4696 Apr 11 j 13:21	29° ≈ 20'55	
conjunction	-4702 Feb 28 j 05:02	3° ≈ 25'41	-0°50'36		-4696 Apr 23 j 07:24	0° ∀	
minimum elong	-4702 Feb 28 j 05:02	3° ≈ 25'41	0°50'48	retrograde	-4696 Jul 14 j 13:35	2°) 32′54	
max. Earth dist.	-4702 Feb 28 j 13:15		20.80345 AU	opposition	-4696 Sep 28 j 02:26	0° ∺ 31'39	
morning rise	-4702 Mar 16 j 20:14	4°≈22'22		min. Earth dist.	-4696 Sep 28 j 08:14		18.41056 AU
retrograde	-4702 Jun 19 j 12:27	7°≈31'39	005640		-4696 Oct 10 j 16:25	30°R≈	
opposition	-4702 Sep 04 j 01:50	5°≈31'17		direct	-4696 Dec 11 j 18:30	28°≈31'03	
min. Earth dist.	-4702 Sep 03 j 19:45		18.77800 AU	. ,	-4695 Feb 09 j 22:09	0°) (30)30	
direct	-4702 Nov 17 j 13:41	3°≈33'05		evening set	-4695 Mar 13 j 17:50	1° ¥ 39'29	
evening set	-4701 Feb 16 j 04:36	6° ≈ 35'17		agniumation	-4695 Mar 30 j 11:38	2°){ 37'40	0946140
conjunction	-4701 Mar 04 j 17:33	7° ≈ 31'46	0°50'50	conjunction minimum elong	-4695 Mar 30 j 11:38	2° X 37'40 2° X 37'40	
minimum elong	-4701 Mar 04 j 17:33	7°≈31'46		max. Earth dist.	-4695 Mar 30 j 04:02		20.37748 AU
max. Earth dist.	-4701 Mar 05 j 00:04		20.75119 AU	morning rise	-4695 Apr 16 j 06:46	2 X 36'04	20.37748 AU
morning rise	-4701 Mar 21 j 09:24	8°≈28'42	20.73117 AU	retrograde	-4695 Jul 19 j 05:02	6°) (48'36	
retrograde	-4701 Jun 24 j 01:06	11°≈38'22		opposition	-4695 Oct 02 j 12:17	4°) (47'15	-0°50'54
opposition	-4701 Sep 08 j 08:53	9° ≈ 37'52	-0°56'18	min. Earth dist.	-4695 Oct 02 j 18:52		18.34431 AU
min. Earth dist.	-4701 Sep 08 j 03:57		18.72358 AU	direct	-4695 Dec 16 j 06:32	2°) (46'16	10.5 1.51110
direct	-4701 Nov 21 j 22:14	7° ≈ 39'18		evening set	-4694 Mar 18 j 11:00	5°) 55'55	
evening set	-4700 Feb 20 j 16:50	10° ≈ 42'24		Ü	,		
	•			conjunction	-4694 Apr 04 j 05:21	6°) 54′24	-0°45'03
conjunction	-4700 Mar 08 j 06:37	11° ≈ 39'09	-0°50'48	minimum elong	-4694 Apr 04 j 05:21	6°) 54′24	0°45'10
minimum elong	-4700 Mar 08 j 06:37	11° ≈ 39'09	0°51'00	max. Earth dist.	-4694 Apr 03 j 19:30	6°) 52′58	20.31104 AU
max. Earth dist.	-4700 Mar 08 j 09:57	11° ≈ 39'38	20.69485 AU	morning rise	-4694 Apr 21 j 00:43	7° ¥ 53′03	
morning rise	-4700 Mar 24 j 23:17	12° ≈ 36′19		retrograde	-4694 Jul 23 j 18:51	11° ∺ 06′09	
	-4700 May 14 j 19:25	15° ≈		opposition	-4694 Oct 06 j 22:56	9°) (04′44	
retrograde	-4700 Jun 27 j 11:13	15° ≈ 46′25		min. Earth dist.	-4694 Oct 07 j 08:09		18.27788 AU
	-4700 Aug 10 j 17:26	15°R ≈		direct	-4694 Dec 20 j 17:09	7°) €03'24	
opposition	-4700 Sep 11 j 16:27	13° ≈ 45'46		evening set	-4693 Mar 23 j 05:08	10° ∺ 14'18	
min. Earth dist.	-4700 Sep 11 j 14:38		18.66548 AU				
direct	-4700 Nov 25 j 04:39	11°≈46'47		conjunction	-4693 Apr 09 j 00:02	11°) 13′05	
evening set	-4699 Feb 24 j 05:50	14°≈50'51		minimum elong	-4693 Apr 09 j 00:02	11°) 13′05	
	-4699 Feb 26 j 22:44	15° ≈		max. Earth dist.	-4693 Apr 08 j 12:05	11° X 11'20 12° X 12'00	20.24474 AU
agniumation	4600 Mar. 12 : 20:27	1500047150	0950121	morning rise	-4693 Apr 25 j 19:40	15° X 12'00	
conjunction minimum elong	-4699 Mar 12 j 20:37 -4699 Mar 12 j 20:37	15°≈47'52 15°≈47'52		retrograde opposition	-4693 Jul 28 j 11:55 -4693 Oct 11 j 10:03	13° X 2341	0°46'45
max. Earth dist.	-4699 Mar 12 j 20:37		20.63525 AU	min. Earth dist.	-4693 Oct 11 j 10:09		18.21157 AU
morning rise	-4699 Mar 29 j 13:50	15 ≈ 48 00 16° ≈ 45'16	20.03323 AU	direct	-4693 Dec 25 j 06:31	11° X 23'08	18.21137 AU
retrograde	-4699 Jul 02 j 00:34	19°≈55'47		evening set	-4692 Mar 27 j 00:19	14°) (34'45	
opposition	-4699 Sep 16 j 00:06	17° ≈ 54'59	-0°55'40			7,00	
min. Earth dist.	-4699 Sep 15 i 23:21		18.60441 AU	conjunction	-4692 Apr 12 j 19:42	15°) 33′50	-0°41'01
direct	-4699 Nov 29 j 14:47	15° ≈ 55'37		minimum elong	-4692 Apr 12 j 19:42	15°) €33'50	
evening set	-4698 Feb 28 j 19:41	19° ≈ 00'40		max. Earth dist.	-4692 Apr 12 j 05:41	15°) 31'46	20.17835 AU
-				morning rise	-4692 Apr 29 j 15:25	16°) 33′00	
conjunction	-4698 Mar 17 j 11:12	19° ≈ 57'59	-0°49'57	retrograde	-4692 Aug 01 j 03:27	19°)(47'17	
minimum elong	-4698 Mar 17 j 11:12	19° ≈ 57'59	0°50'07	opposition	-4692 Oct 14 j 22:09	17°)(45'47	-0°44'14
max. Earth dist.	-4698 Mar 17 j 09:51	19° ≈ 57'47	20.57295 AU	min. Earth dist.	-4692 Oct 15 j 11:00	17°) 44'24	18.14516 AU
morning rise	-4698 Apr 03 j 05:02	20° ≈ 55'38		direct	-4692 Dec 28 j 18:32	15°) (43′44	
retrograde	-4698 Jul 06 j 11:16	24° ≈ 06'37		evening set	-4691 Mar 31 j 20:34	18° ¥ 57'19	
opposition	-4698 Sep 20 j 08:28	22° ≈ 05'39					
min. Earth dist.	-4698 Sep 20 j 10:37		18.54114 AU	conjunction	-4691 Apr 17 j 16:16	19° ¥ 56'41	
direct	-4698 Dec 03 j 22:15	20° ≈ 05'51		minimum elong	-4691 Apr 17 j 16:16	19° ¥ 56'41	
evening set	-4697 Mar 05 j 10:01	23° ≈ 11'59		max. Earth dist.	-4691 Apr 16 j 23:40		20.11192 AU
	460000	0.46	00.40:0-	morning rise	-4691 May 04 j 12:04	20°) € 56'06	
conjunction	-4697 Mar 22 j 02:25	24°≈09'34		retrograde	-4691 Aug 05 j 22:20	24°) 10'59	0041127
minimum elong	-4697 Mar 22 j 02:25	24°≈09'34	0°49'16	opposition	-4691 Oct 19 j 10:51	22°\(\)(09'26	
max. Earth dist.	-4697 Mar 21 j 23:22		20.50890 AU	min. Earth dist.	-4691 Oct 20 j 00:51	22° 大 0'/'56	18.07862 AU
morning rise	-4697 Apr 07 j 20:44	25° ≈ 07'28		direct	-4690 Jan 02 j 09:47	20°) 07′02	

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 18 Attention, astronomical year style is used: The year -4690 in astronomical counting style is the year 4691 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -4690 i	in astronomical co	unting style is the year	4691 BCE in historical c	ounting style.	
evening set	-4690 Apr 05 j 17:44	-		minimum elong	-4684 May 20 j 13:39	21° Y ′30'17	0°15'36
				behind sun begin	-4684 May 20 j 12:43	21° Y '30'09	
conjunction	-4690 Apr 22 j 13:46	24° ¥ 21′37	-0°35'58	behind sun end	-4684 May 20 j 14:35	21° Y ′30′25	
minimum elong	-4690 Apr 22 j 13:46	24° ¥ 21'37	0°35'59	morning rise	-4684 Jun 06 j 06:50	22° Y 31'07	
max. Earth dist.	-4690 Apr 21 j 19:19	24°) 18′53	20.04514 AU	retrograde	-4684 Sep 06 j 13:53	25° Y 49'41	
morning rise	-4690 May 09 j 09:22	25° ∺ 21'17		opposition	-4684 Nov 19 j 03:10	23° Y 47'29	-0°15'16
retrograde	-4690 Aug 10 j 15:19	28°) ₹36'44		min. Earth dist.	-4684 Nov 20 j 04:25		17.62656 AU
opposition	-4690 Oct 24 j 00:36	26° ∺ 35′09	-0°38'23	direct	-4683 Feb 02 j 16:29	21° Y '42'21	
min. Earth dist.	-4690 Oct 24 j 17:13	26° ∺ 33′21	18.01178 AU	evening set	-4683 May 08 j 20:20	25° Y ′06′09	
direct	-4689 Jan 06 j 23:41	24°) 32′23		max. Earth dist.	-4683 May 24 j 08:14	26° Y ′02'40	19.59818 AU
evening set	-4689 Apr 10 j 15:44	27°) 48′38					
				conjunction	-4683 May 25 j 15:25	26° Y ′07'27	
conjunction	-4689 Apr 27 j 11:53	28°) 48′34		minimum elong	-4683 May 25 j 15:25	26° Y ′07'27	0°11'40
minimum elong	-4689 Apr 27 j 11:53	28°) 48′34		behind sun begin	-4683 May 25 j 10:41	26° Y ′06'45	
max. Earth dist.	-4689 Apr 26 j 14:34		19.97826 AU	behind sun end	-4683 May 25 j 20:08	26° Y ′08′10	
morning rise	-4689 May 14 j 07:29	29°) 48′28		morning rise	-4683 Jun 11 j 07:59	27° Y ′08'26	
	-4689 May 17 j 15:00	0° Y			-4683 Aug 10 j 19:08	$0^{\circ}S$	
retrograde	-4689 Aug 15 j 11:11	3° Y 04'30		retrograde	-4683 Sep 11 j 10:35	0° 8 27'28	
opposition	-4689 Oct 28 j 15:04	1° Y ′02'49	-0°35'03		-4683 Oct 13 j 11:16	30° ŖƳ	
min. Earth dist.	-4689 Oct 29 j 08:53	1° Y ′00'54	17.94484 AU	opposition	-4683 Nov 23 j 22:21	28° Y 25′11	-0°10'51
	-4689 Nov 23 j 01:50	30° Ŗ ₩		min. Earth dist.	-4683 Nov 25 j 00:25	28° Y '22'20	17.57138 AU
direct	-4688 Jan 11 j 16:51	28° ¥ 59′39		direct	-4682 Feb 07 j 14:08	26° Ƴ 19'43	
	-4688 Feb 29 j 09:52	0° Y		evening set	-4682 May 13 j 23:05	29° Y '44'40	
evening set	-4688 Apr 14 j 14:44	2° Y 17'14			-4682 May 18 j 04:47	0° 8	
				max. Earth dist.	-4682 May 29 j 11:05	0° 8 41'25	19.54507 AU
conjunction	-4688 May 01 j 11:06	3° Y 17'27	-0°29'58				
minimum elong	-4688 May 01 j 11:06	3° Y 17'27	0°29'58	conjunction	-4682 May 30 j 17:46	0° 8 46'08	-0°07'45
max. Earth dist.	-4688 Apr 30 j 12:19	3° Y °14'02	19.91125 AU	minimum elong	-4682 May 30 j 17:47	0° 8 46'08	0°07'38
morning rise	-4688 May 18 j 06:16	4° Y 17'33		behind sun begin	-4682 May 30 j 11:40	0° 8 45'13	
retrograde	-4688 Aug 19 j 05:16	7° Y ′34'08		behind sun end	-4682 May 30 j 23:53	0° 8 47'03	
opposition	-4688 Nov 01 j 06:20	5° Y ′32'22	-0°31'29	morning rise	-4682 Jun 16 j 09:23	1° 8 47'13	
min. Earth dist.	-4688 Nov 02 j 02:32	5° Y '30'10	17.87800 AU	retrograde	-4682 Sep 16 j 08:38	5° 8 06'43	
direct	-4687 Jan 15 j 09:14	3° Y ′28'48		opposition	-4682 Nov 28 j 18:19	3° 8 04'23	-0°06'20
evening set	-4687 Apr 19 j 14:38	6° Ƴ 47'41		min. Earth dist.	-4682 Nov 29 j 20:42	3° 8 01'30	17.52057 AU
max. Earth dist.	-4687 May 05 j 09:10	7° Ƴ 44'16	19.84480 AU	direct	-4681 Feb 12 j 13:30	0° 8 58'40	
				evening set	-4681 May 19 j 02:25	4° 8 24'41	
conjunction	-4687 May 06 j 10:51	7° Y '48'08	-0°26'39				
minimum elong	-4687 May 06 j 10:51	7° Y 48'08		conjunction	-4681 Jun 04 j 20:20	5° 8 26'17	
morning rise	-4687 May 23 j 05:49	8° Y 48'27		minimum elong	-4681 Jun 04 j 20:21	5° 8 26'17	0°03'34
retrograde	-4687 Aug 24 j 01:32	12° Y 05'34		behind sun begin	-4681 Jun 04 j 13:38	5° 8 25'17	
opposition	-4687 Nov 05 j 22:23	10° Y 03'41		behind sun end	-4681 Jun 05 j 03:04	5° 8 27'18	
min. Earth dist.	-4687 Nov 06 j 19:44	10° Y ′01′22	17.81208 AU	max. Earth dist.	-4681 Jun 03 j 12:05	5° 8 21'18	19.49667 AU
direct	-4686 Jan 20 j 04:09	7° Y ′59'42		morning rise	-4681 Jun 21 j 11:11	6° 8 27'29	
evening set	-4686 Apr 24 j 14:57	11° Ƴ 19'51		retrograde	-4681 Sep 21 j 06:05	9° 8 47'25	
max. Earth dist.	-4686 May 10 j 08:50	12° Y 16′34	19.77947 AU	opposition	-4681 Dec 03 j 15:08	7° 8 45'05	-0°01'45
				min. Earth dist.	-4681 Dec 04 j 18:17		17.47475 AU
conjunction	-4686 May 11 j 11:11	12° Y ′20′34		direct	-4680 Feb 17 j 12:35	5° 8 39'08	
minimum elong	-4686 May 11 j 11:11	12° Y ′20′34	0°23'07	asc. node	-4680 Apr 21 j 20:28	7° 8 21'29	
morning rise	-4686 May 28 j 05:32	13° Y 21'03		evening set	-4680 May 23 j 06:11	9° 8 06'12	
retrograde	-4686 Aug 28 j 20:42	16° Ƴ 38'41					
opposition	-4686 Nov 10 j 15:17	14° Ƴ 36'41		conjunction	-4680 Jun 08 j 23:28	10° 8 07'55	0°00'33
min. Earth dist.	-4686 Nov 11 j 14:23		17.74763 AU	minimum elong	-4680 Jun 08 j 23:29	10° 8 07'55	0°00'43
direct	-4685 Jan 24 j 22:59	12° Y 32'19		behind sun begin	-4680 Jun 08 j 16:44	10° 8 06'54	
evening set	-4685 Apr 29 j 16:11	15° Y ′53'42		behind sun end	-4680 Jun 09 j 06:14	10° 8 08'56	
max. Earth dist.	-4685 May 15 j 07:06	16° Y 50′13	19.71614 AU	max. Earth dist.	-4680 Jun 07 j 15:53		19.45335 AU
				morning rise	-4680 Jun 25 j 13:14	11° 8 09'11	
conjunction	-4685 May 16 j 12:03	16° Ƴ 54'37		retrograde	-4680 Sep 25 j 05:32	14° 8 29'31	
minimum elong	-4685 May 16 j 12:03	16° Y ′54'37	0°19'25	opposition	-4680 Dec 07 j 12:39	12° 8 27'15	0°02'53
morning rise	-4685 Jun 02 j 06:02	17° Y ′55′18		min. Earth dist.	-4680 Dec 08 j 15:36		17.43392 AU
retrograde	-4685 Sep 02 j 17:10	21° Υ 13'25		direct	-4679 Feb 21 j 13:53	10° 8 21'09	
opposition	-4685 Nov 15 j 08:44	19° Ƴ 11'18		evening set	-4679 May 28 j 10:28	13° 8 49'11	
min. Earth dist.	-4685 Nov 16 j 08:53		17.68563 AU	max. Earth dist.	-4679 Jun 12 j 18:18	14° 8 45'56	19.41511 AU
direct	-4684 Jan 29 j 19:12	17° Y ′06′31					
evening set	-4684 May 03 j 17:55	20° Y ′29′09		conjunction	-4679 Jun 14 j 02:50	14° 8 51'00	
max. Earth dist.	-4684 May 19 j 08:35	21° Y 25'51	19.65546 AU	minimum elong	-4679 Jun 14 j 02:49	14° 8 51'00	0°04'54
				behind sun begin	-4679 Jun 13 j 20:14	14° 8 50'00	
conjunction	-4684 May 20 j 13:39	21° Y '30'17	-0°15'40	behind sun end	-4679 Jun 14 j 09:23	14° 8 52'00	

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 19 Attention, astronomical year style is used: The year -4679 in astronomical counting style is the year 4680 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -4679 i	n astronomical cou	inting style is the year	4680 BCE in historical c	ounting style.	.6.
	-4679 Jun 16 j 12:38	15° 8		minimum elong	-4673 Jul 14 j 00:37	13° Ⅱ 30'49	0°28'32
morning rise	-4679 Jun 30 j 15:32	15° 8 52'19		morning rise	-4673 Jul 30 j 05:51	14° Ⅱ 31'56	
retrograde	-4679 Sep 30 j 04:16	19° 8 13'03		retrograde	-4673 Oct 29 j 07:30	17° Ⅱ 53'55	
opposition	-4679 Dec 12 j 11:08	17° 8 10'51	0°07'31	opposition	-4672 Jan 10 j 15:42	15° Ⅱ 52′02	0°33'28
min. Earth dist.	-4679 Dec 13 j 14:54	17° 8 07'49	17.39835 AU	min. Earth dist.	-4672 Jan 11 j 18:01	15° Ⅱ 49'11	17.28382 AU
direct	-4678 Feb 26 j 14:00	15° 8 04'37		direct	-4672 Mar 27 j 08:05	13° Ⅱ 45′29	
evening set	-4678 Jun 02 j 14:47	18° 8 33'32		evening set	-4672 Jul 01 j 19:13	17° Ⅲ 17'11	
max. Earth dist.	-4678 Jun 17 j 22:24	19° 8 30'26	19.38202 AU	max. Earth dist.	-4672 Jul 16 j 22:18	18° Ⅱ 14'11	19.28170 AU
conjunction	-4678 Jun 19 j 06:16	19° 8 35'25	0°08'53	conjunction	-4672 Jul 18 j 03:29	18° Ⅱ 18'48	0°31'43
minimum elong	-4678 Jun 19 j 06:16	19° 8 35'25	0°09'03	minimum elong	-4672 Jul 18 j 03:29	18° Ⅱ 18'48	0°31'57
behind sun begin	-4678 Jun 19 j 00:33	19° 8 34'33		morning rise	-4672 Aug 03 j 07:33	19° Ⅱ 19'48	
behind sun end	-4678 Jun 19 j 11:59	19° 8 36'17		retrograde	-4672 Nov 02 j 08:02	22° Ⅱ 41'48	
morning rise	-4678 Jul 05 j 17:52	20° 8 36'46		opposition	-4671 Jan 14 j 18:04	20° Ⅲ 39'55	0°37'09
retrograde	-4678 Oct 05 j 05:07	23° 8 57'51		min. Earth dist.	-4671 Jan 15 j 18:26	20° Ⅱ 37'16	17.28184 AU
opposition	-4678 Dec 17 j 10:16	21° 8 55'44	0°12'07	direct	-4671 Apr 01 j 14:12	18° Ⅲ 33′21	
min. Earth dist.	-4678 Dec 18 j 13:21	21° 8 52'47	17.36762 AU	evening set	-4671 Jul 06 j 22:58	22° II 05'03	
direct	-4677 Mar 03 j 16:21	19° 8 49'26		max. Earth dist.	-4671 Jul 22 j 03:20	23° Ⅱ 02'17	19.28249 AU
evening set	-4677 Jun 07 j 19:37	23° 8 19'07					
max. Earth dist.	-4677 Jun 23 j 01:53	24° 8 16'00	19.35360 AU	conjunction	-4671 Jul 23 j 06:05	23° Ⅱ 06'31	0°34'53
				minimum elong	-4671 Jul 23 j 06:05	23° Ⅱ 06'31	0°35'07
conjunction	-4677 Jun 24 j 10:02	24° 8 21'02	0°12'58	morning rise	-4671 Aug 08 j 08:41	24° Ⅱ 07'23	
minimum elong	-4677 Jun 24 j 10:02	24° 8 21'02	0°13'10	retrograde	-4671 Nov 07 j 07:15	27° Ⅱ 29'19	
behind sun begin	-4677 Jun 24 j 06:08	24° 8 20'27		opposition	-4670 Jan 19 j 20:51	25° Ⅲ 27′26	0°40'34
behind sun end	-4677 Jun 24 j 13:56	24° 8 21'38		min. Earth dist.	-4670 Jan 20 j 20:45	25° Ⅱ 24'51	17.28553 AU
morning rise	-4677 Jul 10 j 20:26	25° 8 22'24		direct	-4670 Apr 06 j 18:51	23° Ⅲ 20′54	
retrograde	-4677 Oct 10 j 05:04	28° 8 43'47		evening set	-4670 Jul 12 j 02:12	26° Ⅱ 52'26	
opposition	-4677 Dec 22 j 10:08	26° 8 41'44	0°16'40	max. Earth dist.	-4670 Jul 27 j 05:47	27° Ⅱ 49'37	19.28923 AU
min. Earth dist.	-4677 Dec 23 j 14:10	26° 8 38'41	17.34164 AU				
direct	-4676 Mar 07 j 17:29	24° 8 35'21		conjunction	-4670 Jul 28 j 07:49	27° Ⅱ 53'45	0°37'49
evening set	-4676 Jun 12 j 00:37	28° 8 05'44		minimum elong	-4670 Jul 28 j 07:49	27° Ⅱ 53'45	0°38'04
max. Earth dist.	-4676 Jun 27 j 06:04	29° 8 02'38	19.32991 AU	morning rise	-4670 Aug 13 j 09:21	28° ∏ 54′27	
					-4670 Aug 31 j 18:55	0 \circ \odot	
conjunction	-4676 Jun 28 j 13:55	29° 8 07'39	0°17'00	retrograde	-4670 Nov 12 j 07:29	2° © 16'17	
minimum elong	-4676 Jun 28 j 13:54	29° 8 07'39	0°17'11	opposition	-4669 Jan 24 j 23:37	0°514'24	
	-4676 Jul 12 j 12:44	Π $^{\circ}$ 0		min. Earth dist.	-4669 Jan 25 j 21:18		17.29532 AU
morning rise	-4676 Jul 14 j 23:07	0° Ⅱ 08'59			-4669 Jan 30 j 13:31	30°RⅡ	
retrograde	-4676 Oct 14 j 06:37	3° Ⅱ 30'36		direct	-4669 Apr 12 j 00:46	28° Ⅱ 07'56	
opposition	-4676 Dec 26 j 10:43	1° Ⅱ 28'38			-4669 Jun 18 j 08:33	0ಂಣ	
min. Earth dist.	-4676 Dec 27 j 13:39		17.32017 AU	evening set	-4669 Jul 17 j 04:49	1° © 39'13	
	-4675 Feb 02 j 02:12	30° ₹ 8		max. Earth dist.	-4669 Aug 01 j 10:19	2° © 36'42	19.30212 AU
direct	-4675 Mar 12 j 21:06	29° 8 22'11					
	-4675 Apr 19 j 23:45	$0^{\circ}\Pi$		conjunction	-4669 Aug 02 j 09:15	2° © 40'20	0°40'29
evening set	-4675 Jun 17 j 05:28	2° Ⅱ 53'05		minimum elong	-4669 Aug 02 j 09:15	2° © 40'20	0°40'43
max. Earth dist.	-4675 Jul 02 j 10:24	3° ∏ 50'04	19.31063 AU	morning rise	-4669 Aug 18 j 09:20	3° © 40'51	
		_		retrograde	-4669 Nov 17 j 06:30	7° © 02'31	
conjunction	-4675 Jul 03 j 17:37	3° Ⅱ 54'59	0°20'55	opposition	-4668 Jan 30 j 02:34	5°900'42	0°46'31
minimum elong	-4675 Jul 03 j 17:37	3° Ⅱ 54'59	0°21'08	min. Earth dist.	-4668 Jan 30 j 23:03		17.31136 AU
morning rise	-4675 Jul 20 j 01:26	4° Ⅱ 56'16		direct	-4668 Apr 16 j 05:19	2°954'21	
retrograde	-4675 Oct 19 j 06:37	8°Ⅱ18'05	0005105	evening set	-4668 Jul 21 j 06:59	6° © 25'16	
opposition	-4675 Dec 31 j 12:01	6° Ⅱ 16'09	0°25'25		4660 A 06:00 54	7062(110	0042152
min. Earth dist.	-4674 Jan 01 j 15:36	6° Ⅱ 13'09	17.30328 AU	conjunction	-4668 Aug 06 j 09:54	7°526'10	0°42'52
direct	-4674 Mar 17 j 23:18	4° Ⅱ 09'39		minimum elong	-4668 Aug 06 j 09:54	7°526'10	0°43'06
evening set	-4674 Jun 22 j 10:20	7° Ⅱ 40'57		max. Earth dist.	-4668 Aug 05 j 12:01		19.32151 AU
. ,.	4674 1 1 00:21 11	00 T 4 2 147	0024142	morning rise	-4668 Aug 22 j 08:54	8°526'29	
conjunction	-4674 Jul 08 j 21:11	8°∏42'47	0°24'42	retrograde	-4668 Nov 21 j 06:31	11°947'59	0.040100
minimum elong	-4674 Jul 08 j 21:11	8° Ⅱ 42'47	0°24'54	opposition	-4667 Feb 03 j 05:38	9°546'13	0°49'00
max. Earth dist.	-4674 Jul 07 j 14:12	8°Щ3/'54 9°Щ44'00	19.29612 AU	min. Earth dist.	-4667 Feb 03 j 23:42		17.33407 AU
morning rise	-4674 Jul 25 j 03:51			direct	-4667 Apr 21 j 09:47	7°940'04	
retrograde	-4674 Oct 24 j 07:57	13° Ⅱ 05'57 11° Ⅱ 04'02	0°29'33	evening set	-4667 Jul 26 j 08:08	11° © 10'30	
opposition min. Earth dist.	-4673 Jan 05 j 13:32		17.29110 AU	agniumation	1667 Ava 11:00.55	1200211111	0°44'57
min. Earth dist.	-4673 Jan 06 j 15:35	8° П 57'29	17.47110 AU	conjunction minimum elong	-4667 Aug 11 j 09:55	12°5011'11	0°44'57 0°45'11
evening set	-4673 Mar 23 j 04:15 -4673 Jun 27 j 14:53	8°Щ3729 12°Щ29'04		minimum elong max. Earth dist.	-4667 Aug 11 j 09:55 -4667 Aug 10 j 15:28	12°5011'11	19.34747 AU
max. Earth dist.	-4673 Jul 12 j 19:05		19.28633 AU		-4667 Aug 10 j 15:28	12°90813	17.54/4/ AU
max. Datui uist.	- 1 0/5 Jul 12 J 19.05	13 112009	17.20033 AU	morning rise retrograde	-4667 Nov 26 j 05:59	16°932'34	
conjunction	-4673 Jul 14 j 00:37	13° Ⅱ 30'49	0°28'18	opposition	-4666 Feb 08 j 08:43	10 \$32 34 14°\$30'55	0°51'09
	11,100.57			·FF		- 2000	

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4666 in astronomical counting style is the year 4667 BCE in historical counting style. 14°529'12 17.36306 AU min. Earth dist. -4666 Feb 09 j 00:51 conjunction -4660 Sep 12 i 13:49 14°**Ω**55'55 0°50'28 -4666 Apr 26 j 13:55 minimum elong -4660 Sep 12 j 13:49 14°**Ω**55'55 0°50'39 direct 12°925'02 -4666 Jul 31 j 08:51 15°954'53 max. Earth dist. -4660 Sep 12 j 11:08 14°**Ω**55'30 19.66689 AU evening set -4660 Sep 13 j 15:54 15°**Ω** -4660 Sep 28 j 05:16 15°**Ω**54'17 conjunction -4666 Aug 16 j 09:14 16°**9**55'19 0°46'43 morning rise 16°**©**55'19 -4660 Dec 28 j 16:53 minimum elong -4666 Aug 16 j 09:14 0°46'57 retrograde 19°**Ω**13′04 -4659 Mar 14 j 00:41 max. Earth dist. -4666 Aug 15 j 16:10 16°952'37 19.37959 AU opposition 17°**Ω**12'21 0°55'56 -4666 Sep 01 j 05:57 17°**Ω**12'10 17.69579 AU morning rise 17°955'12 min. Earth dist. -4659 Mar 14 j 02:26 retrograde -4666 Dec 01 j 05:16 21°9916'15 direct -4659 May 30 j 06:29 15°**Ω**08'58 opposition -4665 Feb 13 j 11:31 19°**©**14'44 0°52'57 evening set -4659 Sep 01 j 14:33 18°**Ω**32'11 min. Earth dist. -4665 Feb 14 j 01:37 19°513'14 17.39811 AU -4659 Sep 17 j 07:34 19°**Ω**30'36 0°49'56 direct -4665 May 01 j 16:43 17°509'09 conjunction -4659 Sep 17 j 07:34 evening set -4665 Aug 05 j 08:44 20°938'21 minimum elong 19°**Ω**30'36 0°50'05 max. Earth dist. -4659 Sep 17 j 06:59 19°**Ω**30'30 19.72501 AU conjunction -4665 Aug 21 j 08:00 21°9538'32 0°48'11 morning rise -4659 Oct 02 j 22:32 20°**Ω**28'42 minimum elong -4665 Aug 21 j 08:00 21°9538'32 0°48'25 retrograde -4658 Jan 02 j 13:38 23°**Ω**46'57 max. Earth dist. -4665 Aug 20 j 18:09 21°936'20 19.41741 AU opposition -4658 Mar 19 j 01:10 21°**Ω**46'18 0°55'08 morning rise -4665 Sep 06 j 03:34 22°538'10 min. Earth dist. -4658 Mar 18 j 23:43 21°**Ω**46′27 17.75478 AU retrograde -4665 Dec 06 j 05:04 25°958'55 direct -4658 Jun 04 j 08:48 19°**Ω**43'16 opposition -4664 Feb 18 j 14:24 23°957'35 0°54'23 evening set -4658 Sep 06 j 08:10 23°**Ω**05′13 min. Earth dist. -4664 Feb 19 j 02:10 23°956'20 17.43834 AU -4658 Sep 22 j 00:29 direct -4664 May 05 j 20:46 21°952'21 conjunction 24°Ω03'20 0°49'05 evening set -4664 Aug 09 j 07:53 25°520'47 minimum elong -4658 Sep 22 i 00:30 24°Ω03′20 0°49'14 max. Earth dist. -4658 Sep 22 i 02:33 24°Ω03'39 19.78494 AU conjunction -4664 Aug 25 j 05:50 26°9520'40 0°49'18 morning rise -4658 Oct 07 j 14:55 25°**Ω**01'10 -4664 Aug 25 j 05:49 26°920'40 0°49'31 -4657 Jan 07 j 06:34 28°Ω18'52 minimum elong retrograde -4664 Aug 24 j 17:42 26°518'46 19.46007 AU -4657 Mar 24 j 01:01 26°Ω18'15 0°54'01 max. Earth dist. opposition -4664 Sep 10 j 00:28 27°920'05 -4657 Mar 23 j 22:24 26°**Ω**18'31 17.81571 AU morning rise min. Earth dist. -4664 Nov 01 j 16:00 -4657 Jun 09 j 07:08 0 $^{\circ}\Omega$ 24°Ω15'34 direct -4664 Dec 10 j 03:19 0°**Ω**40'32 -4657 Sep 11 j 00:48 27°**Ω**36'13 evening set retrograde -4663 Jan 18 j 23:41 30°Rூ -4663 Feb 22 j 17:13 opposition -4657 Sep 26 j 16:23 28° Ω34'01 0°47'57 28°939'21 0°55'26 conjunction min. Earth dist. -4663 Feb 23 j 03:14 28°938'17 17.48328 AU minimum elong -4657 Sep 26 j 16:23 28°**Ω**34'01 0°48'05 26°934'29 -4663 May 10 j 22:22 -4657 Sep 26 j 20:22 28°**Ω**34'38 19.84696 AU direct max. Earth dist. 29°**Ω**31'36 -4657 Oct 12 j 06:32 -4663 Aug 13 j 16:57 0 \circ Ω morning rise -4657 Oct 20 j 05:09 evening set -4663 Aug 14 j 06:11 0°**£**02′02 0° m retrograde -4656 Jan 12 j 01:49 2° Mp 48'43 conjunction -4663 Aug 30 j 03:05 1°Ω01'39 0°50'06 -4656 Mar 28 j 00:11 0° Mp 48'08 $0^{\circ}52'34$ opposition minimum elong -4663 Aug 30 j 03:05 1°Ω01'39 0°50'19 min. Earth dist. -4656 Mar 27 j 18:09 0° Mp 48'45 17.87869 AU max. Earth dist. -4663 Aug 29 j 17:50 1°**Ω**00'12 19.50708 AU -4656 Apr 16 j 22:32 30°R€ morning rise -4663 Sep 14 j 20:46 $2^{\circ}\Omega00'48$ direct -4656 Jun 13 j 06:38 28°**Ω**45'47 -4663 Dec 15 j 03:03 5°**Ω**20'53 -4656 Aug 06 j 13:18 0° m retrograde -4662 Feb 27 j 19:35 3°Ω19'51 0°56'07 -4656 Sep 14 j 16:14 2° m 05'05 opposition evening set -4662 Feb 28 j 02:55 3°**Ω**19'05 17.53206 AU min. Earth dist. -4662 May 16 j 02:13 1°**Ω**15'22 -4656 Sep 30 j 07:18 3° m 02'35 0°46'31 direct conjunction -4656 Sep 30 i 07:18 3° m 02'35 0°46'38 evening set -4662 Aug 19 j 03:40 4°**Ω**41'58 minimum elong -4656 Sep 30 j 14:28 3° m 03'41 19.91095 AU max. Earth dist. -4662 Sep 03 i 23:27 5°**Ω**41'17 0°50'33 conjunction morning rise -4656 Oct 15 j 21:03 3° m 59'55 minimum elong -4662 Sep 03 i 23:27 5° Ω41'17 0° 50'46 retrograde -4655 Jan 15 i 17:48 7° m 16'27 max. Earth dist. -4662 Sep 03 i 16:08 5°**Ω**40'08 19.55756 AU opposition -4655 Apr 01 j 22:48 5° m 15'55 0°50'49 -4662 Sep 19 i 16:21 6°Ω40'11 min. Earth dist. -4655 Apr 01 j 15:20 5° Mp 16'41 17.94381 AU morning rise 3°m/13'56 -4662 Dec 19 j 23:37 9°Ω59'53 -4655 Jun 18 j 03:13 retrograde direct opposition -4661 Mar 04 j 21:45 7°**Ω**58'58 0°56'26 -4655 Sep 19 j 06:53 6° m 31'52 evening set min. Earth dist. -4661 Mar 05 j 03:44 7°**Ω**58'20 17.58414 AU -4661 May 21 j 03:03 5°**Ω**54'51 conjunction -4655 Oct 04 j 21:21 7° m 29'04 0°44'50 direct evening set -4661 Aug 24 j 00:16 9°**Ω**20'24 minimum elong -4655 Oct 04 j 21:21 7° m 29'04 0°44'57 max. Earth dist. -4655 Oct 05 j 06:17 7° Mp 30'27 19.97719 AU -4661 Sep 08 j 19:03 10°**Ω**19'26 0°50'40 -4655 Oct 20 j 11:02 8°m/26'09 conjunction morning rise -4661 Sep 08 j 19:03 10°**Ω**19'26 -4654 Jan 20 j 11:46 minimum elong 0°50'51 retrograde 11° Mp 42'06 -4661 Sep 08 j 14:06 10°**Ω**18'39 19.61105 AU -4654 Apr 06 j 20:18 0°48'46 max. Earth dist. opposition 9°**m**41'38 morning rise -4661 Sep 24 j 11:11 11°**Ω**18′04 min. Earth dist. -4654 Apr 06 j 09:25 9° **m** 42'45 18.01110 AU retrograde -4661 Dec 24 j 22:04 14°**Ω**37'19 direct -4654 Jun 22 j 23:41 7° Mp 40'02 opposition -4660 Mar 08 j 23:21 12°**Ω**36'31 0°56'22 evening set -4654 Sep 23 j 20:30 10° m 56'37 min. Earth dist. -4660 Mar 09 j 02:21 12°**Ω**36'12 17.63878 AU direct -4660 May 25 j 06:42 10°**Ω**32'47 conjunction -4654 Oct 09 j 10:41 11° m 53'33 0°42'54 -4660 Aug 27 j 19:58 13°**Ω**57'12 -4654 Oct 09 j 10:41 11° **m** 53'33 evening set minimum elong 0°42'59

max. Earth dist.

-4654 Oct 09 j 22:49

11° m 55'24 20.04538 AU

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4654 in astronomical counting style is the year 4655 BCE in historical counting style. -4654 Oct 25 j 00:08 12° m 50'23 direct -4647 Jul 23 i 19:58 7°**£**52'09 morning rise -4653 Jan 25 j 02:57 16° m 05'45 evening set -4647 Oct 22 j 22:32 10°**£**59'49 retrograde -4653 Apr 11 j 17:18 14° Mp 05'22 0°46'28 opposition -4647 Nov 07 j 11:58 min. Earth dist. -4653 Apr 11 j 04:58 14° Mp 06'38 18.08016 AU 11°**≏**55'03 0°23'41 conjunction -4653 Jun 27 j 18:24 -4647 Nov 07 j 11:58 0°23'39 direct 12° m 04'13 minimum elong 11°**£**55'03 -4653 Sep 28 j 09:17 -4647 Nov 08 j 11:40 evening set 15° m 19'27 max. Earth dist. 11°**≏**58'35 20.52975 AU morning rise -4647 Nov 23 j 03:02 12°**£**50'30 conjunction -4653 Oct 13 j 22:59 16° Mp 16'06 0°40'44 retrograde -4646 Feb 24 j 08:49 16°**2**02'05 $0^{\circ}24'22$ minimum elong -4653 Oct 13 j 23:00 16° m 16'06 0°40'48 opposition -4646 May 12 j 22:45 14°**£**02'29 max. Earth dist. -4653 Oct 14 j 12:34 16° Mp 18'10 20.11525 AU min. Earth dist. -4646 May 11 j 22:21 14°**£**04'57 18.56121 AU morning rise -4653 Oct 29 j 12:32 17° Mp 12'42 direct -4646 Jul 28 j 09:31 12°**2**04'14 -4646 Oct 27 j 06:27 retrograde -4652 Jan 29 j 20:17 20° My 27'31evening set 15°**2**10'46 opposition -4652 Apr 15 j 13:28 18° **m** 27'14 0°43'55 min. Earth dist. -4652 Apr 14 j 21:58 18° Mp 28'49 18.15062 AU conjunction -4646 Nov 11 j 20:16 16°**≙**05'49 0°20'21 direct -4652 Jul 01 j 12:49 16° m 26'31 minimum elong -4646 Nov 11 j 20:16 16°**≙**05'49 0°20'19 evening set -4652 Oct 01 j 21:11 19° Mp 40'26 max. Earth dist. -4646 Nov 12 j 22:07 16°**♀**09'39 20.59145 AU morning rise -4646 Nov 27 j 11:40 17°**≗**01'07 conjunction -4652 Oct 17 j 10:47 20° m 36'49 0°38'20 retrograde -4645 Feb 28 j 20:23 20° - 12'11 minimum elong -4652 Oct 17 j 10:47 20° m 36'49 0°38'23 opposition -4645 May 17 j 13:37 18°**≏**12'38 0°20'36 max. Earth dist. -4652 Oct 18 j 03:31 20° m/39'22 20.18611 AU min. Earth dist. -4645 May 16 j 12:25 18°**≏**15'10 18.62122 AU morning rise -4652 Nov 02 j 00:16 21° m 33'13 direct -4645 Aug 01 j 22:36 16°**£**14'41 retrograde -4651 Feb 02 i 10:32 24° m 47'27 evening set -4645 Oct 31 i 13:47 19°**£**20'05 opposition -4651 Apr 20 j 08:58 22° m 47'19 0°41'07 min. Earth dist. -4651 Apr 19 j 16:11 22° m 49'02 18.22174 AU conjunction -4645 Nov 16 i 03:44 20°**2**14'57 0°16'56 -4651 Jul 06 j 05:56 20° m 47'03-4645 Nov 16 i 03:44 20°**♀**14'57 0°16'52 direct minimum elong evening set -4651 Oct 06 j 08:23 23° m 59'39 max. Earth dist. -4645 Nov 17 j 05:32 20°**2**18'46 20.64985 AU -4645 Dec 01 j 19:52 morning rise 21° - 10'07 -4651 Oct 21 j 21:42 24° m 55'47 0°35'44 -4644 Mar 04 j 07:53 conjunction retrograde 24°**£**20'42 -4644 May 20 j 01:34 -4651 Oct 21 j 21:43 24° m 55'47 0°35'47 min. Earth dist. 22°**2**23'46 18.67806 AU minimum elong -4651 Oct 22 j 15:28 24° M 58'28 20.25734 AU -4644 May 21 j 03:44 max. Earth dist. opposition 22°**₽**21'09 0°16'46 -4651 Nov 06 j 11:30 25° m 51'58 -4644 Aug 05 j 10:30 20°**£**23′28 morning rise direct -4644 Nov 03 j 20:28 -4650 Feb 07 j 02:58 29° Mp 05'40 23°**£**27'47 retrograde evening set -4650 Apr 24 j 08:17 27° Mp 07'37 18.29285 AU min. Earth dist. -4650 Apr 25 j 03:36 27° Mp 05'39 -4644 Nov 19 j 10:57 24°**2**22'30 0°13'28 opposition 0°38'07 conjunction -4650 Jul 10 j 22:48 25° m 05'50 direct minimum elong -4644 Nov 19 j 10:57 24°**£**22'30 0°13'23 -4650 Oct 10 j 18:49 -4644 Nov 19 j 07:07 evening set 28° m 17'10 behind sun begin 24°**£**21'57 behind sun end -4644 Nov 19 j 14:47 24°**£**23'03 conjunction -4650 Oct 26 j 08:11 29° m 13'03 0°32'58 max. Earth dist. -4644 Nov 20 j 14:53 24°**£**26'36 20.70504 AU -4650 Oct 26 j 08:11 29° m 13'03 0°32'59 morning rise -4644 Dec 05 j 03:33 25°**♀**17'32 minimum elong max. Earth dist. -4650 Oct 27 j 04:44 29° Mp 16'09 20.32800 AU retrograde -4643 Mar 08 j 18:37 28°**£**27'37 -4650 Nov 08 j 08:51 0∘**⊽** -4643 May 25 j 16:51 26°**2**28'04 0°12'52 opposition -4650 Nov 10 j 22:00 0°**٩**09'02 -4643 May 24 j 13:50 26°**2**30'47 18.73173 AU morning rise min. Earth dist. -4649 Feb 11 j 16:10 -4643 Aug 09 j 22:15 24°**♀**30'37 retrograde 3°**₽**22'11 direct -4649 Apr 29 j 21:29 1°**2**22'19 0°34'55 -4643 Nov 08 j 02:43 27°**♀**33'55 opposition evening set -4649 Apr 29 j 01:10 1°**2**24'23 18.36296 AU min. Earth dist. -4649 Jun 06 i 05:02 30°R ™ conjunction -4643 Nov 23 i 17:29 28°**₽**28'29 0°09'57 direct -4649 Jul 15 i 14:22 29° m 22'57 minimum elong -4643 Nov 23 i 17:29 28°**₽**28'29 0°09'51 -4649 Aug 22 i 17:29 0∘**⊽** behind sun begin -4643 Nov 23 j 12:07 28°**♀**27'43 evening set -4649 Oct 15 j 04:45 2°**₽**33'02 behind sun end -4643 Nov 23 i 22:51 28°**₽**29'15 max. Earth dist. -4643 Nov 24 j 21:16 28°**♀**32'34 20.75729 AU -4649 Oct 30 j 17:56 3°**£**28'40 0°30'01 -4643 Dec 09 j 10:56 29°**₽**23'25 conjunction morning rise -4649 Oct 30 j 17:56 3°**£**28'41 0°30'00 -4643 Dec 20 j 08:26 minimum elong oom. -4649 Oct 31 j 15:03 3°**2**31'51 20.39746 AU retrograde max. Earth dist. -4642 Mar 13 j 04:23 2°M33'03 morning rise -4649 Nov 15 j 08:12 4°**£**24'28 min. Earth dist. -4642 May 29 j 01:33 0°MJ36'15 18.78270 AU retrograde -4648 Feb 16 j 07:07 7°**£**37'06 opposition -4642 May 30 j 05:15 0°M-33'290°08'57 -4648 May 03 j 14:44 5°**£**37'20 0°31'32 -4642 Jun 13 j 07:49 30°R <u>Ω</u> opposition 28°**≏**36'15 min. Earth dist. -4648 May 02 j 16:28 5°**♀**39'35 18.43160 AU -4642 Aug 14 j 08:02 direct -4648 Jul 19 j 05:42 -4642 Oct 11 j 16:37 direct 3°**₽**38'22 0°M -4648 Oct 18 j 13:48 -4642 Nov 12 j 08:22 evening set 6°**₽**47'14 evening set 1°M38'37 -4648 Nov 03 j 03:13 conjunction 7°**£**42'40 0°26'55 conjunction -4642 Nov 27 j 23:44 2°MJ33'03 0°06'24 minimum elong -4648 Nov 03 j 03:14 7°**£**42'40 0°26'54 minimum elong -4642 Nov 27 j 23:44 2°M33'03 0°06'16 max. Earth dist. -4648 Nov 04 j 02:52 7°**♀**46'12 20.46492 AU behind sun begin -4642 Nov 27 j 17:32 2°M32'10 morning rise -4648 Nov 18 j 17:42 8°**£**38'17 behind sun end -4642 Nov 28 j 05:56 2°M33'56 retrograde -4647 Feb 19 j 19:34 11°**£**50'23 max. Earth dist. -4642 Nov 29 j 05:33 2°M37'24 20.80679 AU -4647 May 07 j 08:06 9°**2**53'04 18.49781 AU -4642 Dec 13 j 17:41 min. Earth dist. morning rise 3°M27'53

-4641 Mar 17 j 14:06

6°M37'04

-4647 May 08 j 07:14

9°**2**50'44 0°28'01

retrograde

opposition

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 22

•	ical year style is used: Th		_	· //			uge 22
opposition	-4641 Jun 03 j 16:50	4°M37'31		evening set	-4636 Dec 05 j 13:03		
min. Earth dist.	-4641 Jun 02 j 12:09	4°M40'24	18.83090 AU	•	· ·		
direct	-4641 Aug 18 j 18:26	2°M40'31		conjunction	-4636 Dec 21 j 08:26	26°M39'22	-0°14'47
evening set	-4641 Nov 16 j 13:47	5°M42'00		minimum elong	-4636 Dec 21 j 08:26	26°M39'22	0°14'58
				behind sun begin	-4636 Dec 21 j 05:54	26°M39'01	
conjunction	-4641 Dec 02 j 05:32	6°M36'20	0°02'50	behind sun end	-4636 Dec 21 j 10:59	26°M39'43	
minimum elong	-4641 Dec 02 j 05:31	6°M36'20	0°02'43	max. Earth dist.	-4636 Dec 22 j 16:31	26°M43'58	21.04149 AU
behind sun begin	-4641 Dec 01 j 22:59	6°M35'25		morning rise	-4635 Jan 06 j 07:28	27°M33'57	
behind sun end	-4641 Dec 02 j 12:04	6°M37'16			-4635 Feb 27 j 23:06	0°⊀	
max. Earth dist.	-4641 Dec 03 j 11:04		20.85376 AU	retrograde	-4635 Apr 10 j 18:11	0° ∡ 41'25	
morning rise	-4641 Dec 18 j 00:24	7°M31'06			-4635 May 23 j 16:57	30°RM	
retrograde	-4640 Mar 20 j 23:14	10°M39'55		min. Earth dist.	-4635 Jun 26 j 20:21		19.05496 AU
min. Earth dist.	-4640 Jun 05 j 22:46		18.87669 AU	opposition	-4635 Jun 28 j 02:04	28°M42'10	-0°18'13
opposition	-4640 Jun 07 j 03:52	8°M40'23	0°01'03	direct	-4635 Sep 11 j 13:06	26°M46'18	
direct	-4640 Aug 22 j 02:12	6°M43'35		evening set	-4635 Dec 09 j 17:44	29°M44'11	
desc. node	-4640 Sep 12 j 20:28	6°M55'48 9°M44'17			-4635 Dec 14 j 10:08	0° ∡ 7	
evening set	-4640 Nov 19 j 18:40	9"1164417		aaniumatian	-4635 Dec 25 j 13:46	0° ≯ 38'14	0010107
conjunction	-4640 Dec 05 j 11:12	10°MJ38'31	0°00'50	conjunction minimum elong	-4635 Dec 25 j 13:46	0° x °38°14 0° x ³38'14	
minimum elong	-4640 Dec 05 j 11:12	10°M38'31	0°00'59	max. Earth dist.	-4635 Dec 26 j 20:17		21.06625 AU
behind sun begin	-4640 Dec 05 j 04:39	10°M37'36	0 00 39	morning rise	-4634 Jan 10 j 13:54	1°×732'50	21.00023 AC
behind sun end	-4640 Dec 05 j 17:45	10°M39'27		retrograde	-4634 Apr 15 j 02:31	4° × ⁷ 40'09	
max. Earth dist.	-4640 Dec 06 j 18:31		20.89812 AU	min. Earth dist.	-4634 Jul 01 j 05:37		19.07708 AU
morning rise	-4640 Dec 21 j 06:43	11°MJ33'13	20.09012110	opposition	-4634 Jul 02 j 10:03	2°×19'15'	
retrograde	-4639 Mar 25 j 08:03	14°M41'40		direct	-4634 Sep 15 j 17:22	0° ≯ 45'08	
min. Earth dist.	-4639 Jun 10 j 08:14		18.91956 AU	evening set	-4634 Dec 13 j 22:12	3° х 42′40	
opposition	-4639 Jun 11 j 14:11	12°M42'11		<i>8</i>	,		
direct	-4639 Aug 26 j 11:03	10°M45'37		conjunction	-4634 Dec 29 j 19:14	4° ≯ ³36'44	-0°21'22
evening set	-4639 Nov 23 j 23:34	13°M45'36		minimum elong	-4634 Dec 29 j 19:14	4° ∡ ³36'44	0°21'34
-	-			max. Earth dist.	-4634 Dec 31 j 02:12	4° ∡ °41'09	21.08547 AU
conjunction	-4639 Dec 09 j 16:35	14°M39'46	-0°04'25	morning rise	-4633 Jan 14 j 20:08	5° ∡ 31'21	
minimum elong	-4639 Dec 09 j 16:35	14°M39'46	0°04'34	retrograde	-4633 Apr 19 j 10:46	8° ≯ 38'31	
behind sun begin	-4639 Dec 09 j 10:09	14°M38'52		opposition	-4633 Jul 06 j 17:34	6° ∡ ³39'17	-0°25'23
behind sun end	-4639 Dec 09 j 23:01	14°M40'40		min. Earth dist.	-4633 Jul 05 j 13:19	6° ₰ ⁴42'07	19.09334 AU
max. Earth dist.	-4639 Dec 10 j 23:15	14°M44'12	20.93947 AU	direct	-4633 Sep 20 j 00:09	4° ₹ 43'33	
	-4639 Dec 15 j 12:28	15°M		evening set	-4633 Dec 18 j 03:00	7° ∡ °40'48	
morning rise	-4639 Dec 25 j 13:06	15°M34'25					
retrograde	-4638 Mar 29 j 17:05	18°M42'34		conjunction	-4632 Jan 03 j 00:46	8° ≯ 34'53	
opposition	-4638 Jun 15 j 23:51	16°M43'08		minimum elong	-4632 Jan 03 j 00:46	8° ₹ 34'53	
min. Earth dist.	-4638 Jun 14 j 18:03		18.95937 AU	max. Earth dist.	-4632 Jan 04 j 05:47		21.09883 AU
t' .	-4638 Aug 07 j 15:40	15°RM		morning rise	-4632 Jan 19 j 02:49	9°×729'33	
direct	-4638 Aug 30 j 17:25	14°M46'46		retrograde	-4632 Apr 22 j 18:40	12° ∡ 36'36	10 10201 411
	-4638 Sep 22 j 08:49	15°M		min. Earth dist.	-4632 Jul 08 j 22:12		19.10381 AU
evening set	-4638 Nov 28 j 04:06	17° M 46'07		opposition direct	-4632 Jul 10 j 00:48	10° х 37′18 8° х 41′33	-0-284/
conjunction	-4638 Dec 13 j 21:57	18° M 40'14	-0°07'55	evening set	-4632 Sep 23 j 04:11 -4632 Dec 21 j 07:41	8° × '41'33 11° × '38'34	
minimum elong	-4638 Dec 13 j 21:58	18°M40'14		evening set	-4032 Dec 21 J 07.41	11 7.3034	
behind sun begin	-4638 Dec 13 j 16:06	18°M39'25	0 00 03	conjunction	-4631 Jan 06 j 06:35	12° ∡ ³32'42	-0°27'31
behind sun end	-4638 Dec 14 j 03:50	18°M41'04		minimum elong	-4631 Jan 06 j 06:35	12° ₹ 32'42	
max. Earth dist.	-4638 Dec 15 j 06:03		20.97751 AU	max. Earth dist.	-4631 Jan 07 j 11:44		21.10636 AU
morning rise	-4638 Dec 29 j 19:10	19°M34'51		morning rise	-4631 Jan 22 j 09:30	13° ₹ 27'25	
retrograde	-4637 Apr 03 j 01:13	22°M42'44		retrograde	-4631 Apr 27 j 02:49	16° ∡ ³34'22	
min. Earth dist.	-4637 Jun 19 j 02:43	20°M46'24	18.99550 AU	min. Earth dist.	-4631 Jul 13 j 05:17	14° ₹ 37'38	19.10839 AU
opposition	-4637 Jun 20 j 09:03	20°M43'23	-0°10'41	opposition	-4631 Jul 14 j 07:33	14° ∡ °35′00	-0°32'03
direct	-4637 Sep 04 j 00:55	18° M 47'12		direct	-4631 Sep 27 j 10:24	12° ∡ ³39'11	
evening set	-4637 Dec 02 j 08:35	21°M45'59		evening set	-4631 Dec 25 j 12:40	15° ∡ ³36′03	
	4627 D 10:02.01	220M 40405	0011122		4620 1 10:12:12	160 7000	0020122
conjunction	-4637 Dec 18 j 03:01	22°M40'03		conjunction	-4630 Jan 10 j 12:19	16° ₹ 30'14	
minimum elong	-4637 Dec 18 j 03:01	22°M40'03	0°11'33	minimum elong	-4630 Jan 10 j 12:19	16° ₹ 30'14	
behind sun begin	-4637 Dec 17 j 22:16	22°M39'23		max. Earth dist.	-4630 Jan 11 j 15:23		21.10823 AU
behind sun end	-4637 Dec 18 j 07:46	22°M40'43	21.01170.417	morning rise	-4630 Jan 26 j 16:23	17° 🖈 25'02	
max. Earth dist. morning rise	-4637 Dec 19 j 10:10 -4636 Jan 03 j 01:18	23°M34'39	21.01169 AU	retrograde opposition	-4630 May 01 j 10:15 -4630 Jul 18 j 13:59	20° ₹31'54 18° ₹32'26	-0°35'08
retrograde	-4636 Apr 06 j 10:04	26°M42'20		min. Earth dist.	-4630 Jul 17 j 13:29		19.10771 AU
opposition	-4636 Jun 23 j 17:56	24°M43'01	-0°14'29	direct	-4630 Oct 01 j 14:29	16° ₹ 36'30	17.10//1 AU
min. Earth dist.	-4636 Jun 22 j 12:16		19.02763 AU	evening set	-4630 Dec 29 j 17:35	10 ≯ 30 30 19° ≯ 33'17	
direct	-4636 Sep 07 j 06:13	22°M47'01	->.02/05/10	2. J	.050 Dec 27 j 17.55	., , , ,,, 11	
	rj15						

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4629 in astronomical counting style is the year 4630 BCE in historical counting style. 20°**х** 27'34 -0°33'07 -4629 Jan 14 i 18:22 retrograde -4623 May 29 j 22:09 18°る19'27 conjunction opposition -4629 Jan 14 j 18:22 20°**₹**27'34 0°33'20 -4623 Aug 15 j 06:08 16° 19'31 -0°51'26 minimum elong -4629 Jan 15 j 21:34 20°**✗**31'26 21.10513 AU min. Earth dist. -4623 Aug 14 j 13:20 16°る21'14 18.98725 AU max. Earth dist. -4623 Oct 28 j 21:36 21°×722'26 14°る22'38 -4629 Jan 30 j 23:15 direct morning rise -4629 May 05 j 18:16 24°×729'16 -4622 Jan 26 j 14:11 17°る21'19 retrograde evening set 22°**∡**¹29'42 -0°38'04 -4629 Jul 22 j 20:04 opposition -4629 Jul 21 j 19:48 22°**✗**32'09 19.10225 AU min. Earth dist. conjunction -4622 Feb 11 j 21:56 18°る16'37 -0°47'11 20°**х¹**33'40 -4622 Feb 11 j 21:56 0°47'24 direct -4629 Oct 05 j 19:44 minimum elong 18°**る**16'37 -4622 Feb 12 j 14:56 -4628 Jan 02 j 22:46 23°**х** 30′27 evening set max. Earth dist. 18°る19'02 20.97110 AU morning rise -4622 Feb 28 j 09:46 19°**る**12'29 conjunction -4628 Jan 19 j 00:24 24°**x**⁷24'49 -0°35'40 retrograde -4622 Jun 03 j 06:35 22°る20'27 24°**×**⁷24'49 -4628 Jan 19 j 00:23 -4622 Aug 19 j 12:03 20°る20'29 -0°52'52 minimum elong 0°35'54 opposition -4628 Jan 20 j 01:33 24°**✗**¹28'23 21.09751 AU max. Earth dist. min. Earth dist. -4622 Aug 18 j 21:55 20°る21'56 18.95446 AU morning rise -4628 Feb 04 j 06:28 25°**х** 19'47 direct -4622 Nov 02 j 00:54 18°る23'25 retrograde -4628 May 09 j 01:46 28°**х** 26′39 evening set -4621 Jan 30 j 22:44 21°る22'42 min. Earth dist. -4628 Jul 25 j 03:35 26°**尽**29'14 19.09259 AU opposition -4628 Jul 26 j 02:04 26°**≯**¹26'58 -0°40'48 conjunction -4621 Feb 16 j 07:40 22°る18'13 -0°48'21 direct -4628 Oct 08 j 23:36 24°**∡**30'47 minimum elong -4621 Feb 16 j 07:40 22°る18'13 0°48'35 evening set -4627 Jan 06 j 04:13 27°**х** 27′40 max. Earth dist. -4621 Feb 16 j 23:40 22°る20'30 20.93613 AU morning rise -4621 Mar 04 j 20:13 23°る14'17 conjunction -4627 Jan 22 j 07:02 28°**₹**¹22'09 -0°38'04 retrograde -4621 Jun 07 j 17:59 26°る22'33 minimum elong -4627 Jan 22 i 07:02 28°**х** 22′09 0°38'18 opposition -4621 Aug 23 i 18:02 24°る22'32 -0°54'03 max. Earth dist. -4627 Jan 23 j 08:10 28°**₹**25'43 21.08582 AU min. Earth dist. -4621 Aug 23 i 04:57 24°る23'53 18.91712 AU morning rise -4627 Feb 07 i 13:56 29°**∡**17'14 direct -4621 Nov 06 i 07:32 22°る25'16 -4627 Feb 20 j 19:42 0°궁 evening set -4620 Feb 04 j 08:08 25°る25'12 -4627 May 13 j 10:08 2°る24'09 retrograde -4627 Jul 29 j 09:26 0°る26'38 19.07891 AU -4620 Feb 20 j 17:56 26°**ප්**20'56 -0°49'18 min. Earth dist. conjunction opposition -4627 Jul 30 j 07:35 0°る24'23 -0°43'21 -4620 Feb 20 j 17:56 26°**ප්**20'56 0°49'31 minimum elong -4627 Aug 09 j 10:02 max. Earth dist. -4620 Feb 21 j 06:40 26°る22'45 20.89641 AU 30°R.✓ -4627 Oct 13 j 04:25 28°**≯**28'05 -4620 Mar 08 j 07:32 27°る17'13 direct morning rise -4627 Dec 13 j 18:17 0°₹ -4620 May 09 j 12:25 0°≈ -4626 Jan 10 j 10:09 -4620 Jun 11 j 03:27 0°≈25'50 1°る25'09 retrograde evening set -4620 Jul 14 j 00:32 30°Ŗる -4626 Jan 26 j 13:48 2°る19'46 -0°40'17 -4620 Aug 27 j 00:28 28°る25'44 -0°54'58 conjunction opposition -4626 Jan 26 j 13:48 2°る19'46 0°40'30 -4620 Aug 26 j 14:22 28°る26'46 18.87496 AU minimum elong min. Earth dist. 2°る23'01 21.07028 AU -4626 Jan 27 j 12:41 -4620 Nov 09 j 12:12 26°**පි**28'11 max. Earth dist. direct 3°る14'59 -4626 Feb 11 j 21:50 -4619 Feb 07 j 18:11 morning rise evening set 29°**る**28'50 retrograde -4626 May 17 j 17:50 6°る22'01 -4619 Feb 16 j 23:18 0°≈ opposition -4626 Aug 03 j 13:17 4°る22'11 -0°45'42 -4619 Feb 24 j 05:09 min. Earth dist. -4626 Aug 02 j 17:04 4°る24'14 19.06157 AU conjunction 0°≈24'49 -0°50'00 -4626 Oct 17 j 07:41 2°る25'44 minimum elong -4619 Feb 24 j 05:09 0°≈24'49 0°50'12 direct -4625 Jan 14 j 16:08 5°る23'04 max. Earth dist. -4619 Feb 24 j 16:23 0°≈26'25 20.85184 AU evening set -4619 Mar 12 j 19:24 1°≈21'17 morning rise -4625 Jan 30 j 20:58 6°る17'50 -0°42'19 -4619 Jun 15 j 14:43 4°≈30'15 conjunction retrograde -4625 Jan 30 j 20:57 6°る17'50 0°42'33 -4619 Aug 31 j 06:53 2°≈30'02 -0°55'37 minimum elong opposition max. Earth dist. -4625 Jan 31 i 19:45 6°る21'04 21.05113 AU min. Earth dist. -4619 Aug 30 j 21:57 2°≈30'58 18.82789 AU morning rise -4625 Feb 16 i 05:48 7°る13'11 direct -4619 Nov 13 j 19:40 0°≈32'11 retrograde -4625 May 22 j 03:17 10°る20'24 evening set -4618 Feb 12 j 05:00 3°≈33'36 opposition -4625 Aug 07 j 18:51 8°る20'31 -0°47'50 min. Earth dist. -4625 Aug 06 j 23:00 8°る22'32 19.04053 AU conjunction -4618 Feb 28 i 16:48 4°≈29'49 -0°50'27 direct -4625 Oct 21 j 12:54 6°**ප**23'56 minimum elong -4618 Feb 28 i 16:48 4°≈29'49 0°50'39 -4624 Jan 18 j 22:57 9°**ප**21'38 max. Earth dist. -4618 Mar 01 j 00:38 4°≈30'56 20.80250 AU evening set -4618 Mar 17 j 07:58 5°≈26'31 morning rise conjunction -4624 Feb 04 j 04:39 10° 16'34 -0°44'09 retrograde -4618 Jun 20 j 00:55 8°2235'51 minimum elong -4624 Feb 04 j 04:39 10°る16'34 0°44'22 opposition -4618 Sep 04 j 13:49 6°≈35'29 -0°55'58 -4618 Sep 04 j 07:53 max. Earth dist. -4624 Feb 05 j 01:00 10°る19'27 21.02832 AU min. Earth dist. 6°≈36'06 18.77639 AU morning rise -4624 Feb 20 j 14:39 11°る12'05 direct -4618 Nov 18 j 01:37 4°≈37'16 -4624 May 25 j 11:19 14°る19'30 -4617 Feb 16 j 16:11 7°**≈**39'29 retrograde evening set -4624 Aug 10 j 06:57 12°る21'22 19.01588 AU min. Earth dist. 12°る19'34 -0°49'45 -4617 Mar 05 j 05:07 opposition -4624 Aug 11 j 00:29 conjunction 8°≈35'58 -0°50'38 10°**පි**22'51 direct -4624 Oct 24 j 15:43 minimum elong -4617 Mar 05 j 05:07 8°**≈**35'58 0°50'49 evening set -4623 Jan 22 j 06:11 13°る21'00 max. Earth dist. -4617 Mar 05 j 11:31 8°≈36'53 20.74906 AU morning rise -4617 Mar 21 j 20:56 9°≈32'53 conjunction -4623 Feb 07 j 13:07 14°る16'07 -0°45'46 retrograde -4617 Jun 24 j 12:27 12°≈42'35 minimum elong -4623 Feb 07 j 13:07 14°る16'07 0°46'00 opposition -4617 Sep 08 j 20:52 10°≈42'04 -0°56'03 max. Earth dist. -4623 Feb 08 j 08:55 14°る18'55 21.00178 AU min. Earth dist. -4617 Sep 08 j 16:01 10°≈42'34 18.72099 AU

-4623 Feb 23 j 23:54

morning rise

15°**る**11'47

direct

-4617 Nov 22 j 09:54

8°≈43'28

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 24 Attention, astronomical year style is used: The year -4616 in astronomical counting style is the year 4617 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ne year -4616	in astronomical co	unting style is the year	r 4617 BCE in historical c	ounting style.	
evening set	-4616 Feb 21 j 04:27	11° ≈ 46′32		conjunction	-4610 Apr 04 j 16:33	7° ¥ 57'30	-0°44'37
				minimum elong	-4610 Apr 04 j 16:33	7°) €57'30	0°44'43
conjunction	-4616 Mar 08 j 18:10	12° ≈ 43'17	-0°50'34	max. Earth dist.	-4610 Apr 04 j 06:57	7° ¥ 56′05	20.31116 AU
minimum elong	-4616 Mar 08 j 18:10	12° ≈ 43'17	0°50'45	morning rise	-4610 Apr 21 j 11:55	8° ¥ 56′09	
max. Earth dist.	-4616 Mar 08 j 21:21	12° ≈ 43'45	20.69199 AU	retrograde	-4610 Jul 24 j 06:39	12° ₩ 09'16	
morning rise	-4616 Mar 25 j 10:48	13° ≈ 40′27		opposition	-4610 Oct 07 j 10:45	10° ¥ 07'50	-0°48'28
C	-4616 Apr 19 j 14:39	15° ≈		min. Earth dist.	-4610 Oct 07 j 19:47	10°) €06'52	18.27822 AU
retrograde	-4616 Jun 27 j 23:08	16° ≈ 50'33		direct	-4610 Dec 21 j 04:12	8° ¥ 06'30	
C	-4616 Sep 08 j 02:58	15°R≈		evening set	-4609 Mar 23 j 16:19	11°) 17′22	
opposition	-4616 Sep 12 j 04:17	14° ≈ 49'50	-0°55'51	· ·	,		
min. Earth dist.	-4616 Sep 12 j 02:24	14° ≈ 50'02	18.66245 AU	conjunction	-4609 Apr 09 j 11:13	12°) 16′09	-0°42'42
direct	-4616 Nov 25 j 17:11	12° ≈ 50'49		minimum elong	-4609 Apr 09 j 11:14	12° ¥ 16′09	
	-4615 Feb 07 j 19:55	15° ≈		max. Earth dist.	-4609 Apr 08 j 23:39	12° ¥ 14'27	20.24520 AU
evening set	-4615 Feb 24 j 17:19	15° ≈ 54'50		morning rise	-4609 Apr 26 j 06:52	13° ¥ 15′04	
8	, ,			retrograde	-4609 Jul 28 j 23:47	16° ¥ 28'47	
conjunction	-4615 Mar 13 j 08:04	16° ≈ 51'52	-0°50'14	opposition	-4609 Oct 11 j 21:58	14°) €27'18	-0°46'12
minimum elong	-4615 Mar 13 j 08:04	16°≈51'52		min. Earth dist.	-4609 Oct 12 j 08:00		18.21194 AU
max. Earth dist.	-4615 Mar 13 j 09:47		20.63218 AU	direct	-4609 Dec 25 j 18:02	12° ¥ 25'38	
morning rise	-4615 Mar 30 j 01:14	17°≈49'15	20.00210110	evening set	-4608 Mar 27 j 11:40	15°) €37'50	
retrograde	-4615 Jul 02 j 11:29	20°≈59'46		evening sec	1000 Mai 27 j 11.10	15 7(57 50	
opposition	-4615 Sep 16 j 12:00	18°≈58'53	-0°55'21	conjunction	-4608 Apr 13 j 07:00	16°) 36′55	-0°40'31
min. Earth dist.	-4615 Sep 16 j 11:04		18.60141 AU	minimum elong	-4608 Apr 13 j 07:00	16° ¥ 36'55	
direct	-4615 Nov 30 j 02:21	16°≈59'28	10.00141710	max. Earth dist.	-4608 Apr 12 j 16:58		20.17851 AU
evening set	-4614 Mar 01 j 06:58	20°≈04'28		morning rise	-4608 Apr 30 j 02:42	17° ¥ 36'05	20.17631 AC
evening set	-4014 Mai 01 j 00.36	20 ~0720		retrograde	-4608 Aug 01 j 15:16	20° ¥ 50′24	
conjunction	-4614 Mar 17 j 22:23	21° ≈ 01'46	0040120	opposition	-4608 Oct 15 j 10:02	18°) 48'53	0043140
minimum elong	-4614 Mar 17 j 22:23	21°≈01'46		min. Earth dist.	-4608 Oct 15 j 23:04		18.14497 AU
max. Earth dist.	-		20.57011 AU		3	16° ¥ 46'52	18.1449/ AU
	-4614 Mar 17 j 21:13		20.37011 AU	direct	-4608 Dec 29 j 06:14	10 X 40 32 20° X 00′25	
morning rise	-4614 Apr 03 j 16:11	21°≈59'25		evening set	-4607 Apr 01 j 08:00		20 11124 411
retrograde	-4614 Jul 06 j 22:56	25°≈10'23	0954122	max. Earth dist.	-4607 Apr 17 j 11:08	20° π 3720	20.11124 AU
opposition	-4614 Sep 20 j 20:20	23°≈09'21		:	4607 A 10:02.41	2001/50147	0929107
min. Earth dist.	-4614 Sep 20 j 22:10		18.53856 AU	conjunction	-4607 Apr 18 j 03:41	20°) 59'47	
direct	-4614 Dec 04 j 10:37	21°≈09'30		minimum elong	-4607 Apr 18 j 03:41	20°) € 59'47	0°38'08
evening set	-4613 Mar 05 j 21:21	24°≈15'34		morning rise	-4607 May 04 j 23:28	21°) (59'13	
	461034 00:10.40	250 12100	0040145	retrograde	-4607 Aug 06 j 09:37	25°) €14'08	0040151
conjunction	-4613 Mar 22 j 13:42			opposition	-4607 Oct 19 j 22:54	23°) €12'34	
minimum elong	-4613 Mar 22 j 13:42			min. Earth dist.	-4607 Oct 20 j 13:01		18.07734 AU
max. Earth dist.	-4613 Mar 22 j 11:03		20.50663 AU	direct	-4606 Jan 02 j 21:49	21°) 10′10	
morning rise	-4613 Apr 08 j 07:57			evening set	-4606 Apr 06 j 05:03		
retrograde	-4613 Jul 11 j 12:38	29°≈22'30	00.5313.0	max. Earth dist.	-4606 Apr 22 j 06:25	25° 大 21'57	20.04317 AU
opposition	-4613 Sep 25 j 04:55	27°≈21'19					
min. Earth dist.	-4613 Sep 25 j 07:34		18.47448 AU	conjunction	-4606 Apr 23 j 01:03	25°) €24'43	
direct	-4613 Dec 08 j 21:00	25°≈21'04		minimum elong	-4606 Apr 23 j 01:04	25°) €24'43	0°35'27
evening set	-4612 Mar 09 j 12:47	28° ≈ 28'15		morning rise	-4606 May 09 j 20:41	26°) €24'23	
				retrograde	-4606 Aug 11 j 02:43	29°) (39′54	
conjunction	-4612 Mar 26 j 05:47	29° ≈ 26′08		opposition	-4606 Oct 24 j 12:42	27°) €38'15	
minimum elong	-4612 Mar 26 j 05:47	29° ≈ 26′08		min. Earth dist.	-4606 Oct 25 j 05:33		18.00907 AU
max. Earth dist.	-4612 Mar 26 j 00:23		20.44204 AU	direct	-4605 Jan 07 j 12:05	25°) ₹35′28	
	-4612 Apr 04 j 23:09	0°) (2,41,€		evening set	-4605 Apr 11 j 03:10	28°) € 51'42	
morning rise	-4612 Apr 12 j 00:33	0° ∺ 24'16					
retrograde	-4612 Jul 15 j 01:18	3° ∺ 36′15		conjunction	-4605 Apr 27 j 23:19	29°) €51'38	
opposition	-4612 Sep 28 j 14:19	1°) (34′57		minimum elong	-4605 Apr 27 j 23:20	29° ¥ 51'38	
min. Earth dist.	-4612 Sep 28 j 19:45		18.40955 AU	max. Earth dist.	-4605 Apr 27 j 01:57		19.97484 AU
	-4612 Nov 10 j 13:58	30°R ≈			-4605 Apr 30 j 07:12	0° Υ	
direct	-4612 Dec 12 j 06:01	29° ≈ 34'19		morning rise	-4605 May 14 j 18:56	0° Υ 51'33	
	-4611 Jan 12 j 16:03	0° ∀		retrograde	-4605 Aug 15 j 22:09	4° Υ ′07'37	
evening set	-4611 Mar 14 j 05:00	2°) (42'41		opposition	-4605 Oct 29 j 02:59	2° Y 05'53	
				min. Earth dist.	-4605 Oct 29 j 20:55		17.94071 AU
conjunction	-4611 Mar 30 j 22:45	3°) 40′52		direct	-4604 Jan 12 j 05:25	0° Υ ′02'41	
minimum elong	-4611 Mar 30 j 22:46	3°) 40′52		evening set	-4604 Apr 15 j 02:08	3° Y 20′14	
max. Earth dist.	-4611 Mar 30 j 15:41		20.37686 AU				
morning rise	-4611 Apr 16 j 17:51	4° ∺ 39'15		conjunction	-4604 May 01 j 22:29	4° Υ 20'27	
retrograde	-4611 Jul 19 j 16:44	7° ∺ 51'47		minimum elong	-4604 May 01 j 22:30	4° Υ ′20′27	
opposition	-4611 Oct 03 j 00:05	5° ¥ 50′24		max. Earth dist.	-4604 Apr 30 j 23:30		19.90653 AU
min. Earth dist.	-4611 Oct 03 j 06:19		18.34407 AU	morning rise	-4604 May 18 j 17:42	5° Y 20'35	
direct	-4611 Dec 16 j 18:04	3°) 49′25		retrograde	-4604 Aug 19 j 16:33	8° Ƴ 37'12	
evening set	-4610 Mar 18 j 22:15	6° ¥ 59'01		opposition	-4604 Nov 01 j 18:17	6° Ƴ 35'22	-0°30'51

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4604 in astronomical counting style is the year 4605 BCE in historical counting style. 6°**Υ**33'09 17.87274 AU min. Earth dist. -4604 Nov 02 j 14:37 retrograde -4598 Sep 16 i 19:55 6°809'50 opposition -4603 Jan 15 j 21:22 4°Υ31'45 -4598 Nov 29 j 06:00 4°807'31 -0°05'44 direct -4603 Apr 20 j 01:50 7°Y50'36 min. Earth dist. -4598 Nov 30 j 07:57 4°**と**04'40 17.51820 AU evening set -4597 Feb 13 j 00:03 2°801'49 direct -4603 May 06 j 22:03 8°Υ51'05 -0°26'04 -4597 May 19 j 13:27 5°**8**27'52 conjunction evening set 8° **Y**51'05 0°26'03 -4603 May 06 j 22:03 -4597 Jun 03 j 23:32 minimum elong max. Earth dist. 6°**8**24'34 19.49509 AU -4603 May 05 j 20:27 8°**Y**47'13 19.83913 AU max. Earth dist. -4603 May 23 j 17:03 9°Y51'25 -4597 Jun 05 j 07:26 6°829'30 -0°03'08 morning rise conjunction -4597 Jun 05 j 07:26 13°Y08'35 0°03'01 retrograde -4603 Aug 24 j 12:48 minimum elong 6°**8**29'30 opposition -4603 Nov 06 j 10:11 11°Υ06'37 -0°27'04 behind sun begin -4597 Jun 05 j 00:41 6°**8**28'29 11°**Υ**04'18 17.80611 AU min. Earth dist. -4603 Nov 07 j 07:23 behind sun end -4597 Jun 05 j 14:11 6°**8**30'31 9°Y02'34 -4597 Jun 21 j 22:21 7°**8**30'42 direct -4602 Jan 20 j 16:26 morning rise 12°**Y**'22'43 -4597 Sep 21 j 18:02 10°**8**50'43 evening set -4602 Apr 25 j 02:10 retrograde opposition -4597 Dec 04 j 02:43 8°848'25 -0°01'09 conjunction -4602 May 11 j 22:25 13°Y23'26 -0°22'34 min. Earth dist. -4597 Dec 05 j 05:21 8°845'30 17.47383 AU minimum elong -4602 May 11 j 22:25 13°**Y**23′27 0°22'31 direct -4596 Feb 18 j 00:03 6°842'31 max. Earth dist. -4602 May 10 j 20:04 13°**Y**19'27 19.77333 AU asc. node -4596 Mar 05 j 07:53 6°849'37 morning rise -4602 May 28 j 16:48 14°\bar{Y}23'58 evening set -4596 May 23 j 17:18 10°809'37 retrograde -4602 Aug 29 j 08:13 17° **Y**41'38 max. Earth dist. -4596 Jun 08 j 03:30 11°806'32 19.45310 AU opposition -4602 Nov 11 j 02:56 15°Υ39'34 -0°23'05 min. Earth dist. -4602 Nov 12 j 01:57 15°**Ƴ**37'03 17.74148 AU conjunction -4596 Jun 09 j 10:41 11°**8**11'22 0°01'06 direct -4601 Jan 25 i 10:01 13°Y35'08 minimum elong -4596 Jun 09 i 10:41 11°**8**11'22 0°01'14 evening set -4601 Apr 30 j 03:14 16°Y56'32 behind sun begin -4596 Jun 09 i 03:55 11°810'20 behind sun end -4596 Jun 09 i 17:26 11°**8**12'23 conjunction -4601 May 16 j 23:09 17°**Υ**'57'29 -0°18'54 morning rise -4596 Jun 26 j 00:30 12°**8**12'38 -4601 May 16 j 23:10 17°**Υ**'57'29 0°18'51 -4596 Aug 22 j 04:22 15°8 minimum elong -4601 May 15 j 18:24 17°**Y**53'06 19.71007 AU -4596 Sep 25 j 17:21 15°833'03 max Earth dist retrograde -4601 Jun 02 j 17:13 18°**℃**58'11 -4596 Oct 30 j 21:09 15°R\ morning rise -4601 Sep 03 j 05:03 22°Y16'21 -4596 Dec 08 j 00:23 opposition 13°**8**30'49 0°03'28 retrograde $20^{\circ}\Upsilon14'10 -0^{\circ}18'56$ min. Earth dist. 13°**8**27'54 17.43417 AU opposition -4601 Nov 15 j 20:25 -4596 Dec 09 j 03:05 -4601 Nov 16 j 20:10 20°Υ11'34 17.67977 AU -4595 Feb 22 j 00:36 min. Earth dist. direct 11°**8**24'46 -4600 Jan 30 j 07:03 18°**Y**09′20 -4595 May 28 j 21:35 14°**8**52'49 direct evening set 21°Y31'58 -4600 May 04 j 04:55 -4595 May 30 j 20:47 15°8 evening set -4600 May 19 j 19:53 22°**Υ**28'44 19.64990 AU -4595 Jun 13 j 05:40 15°**8**49'37 19.41576 AU max. Earth dist. max. Earth dist. 22° Y 33'08 -0° 15'07 -4600 May 21 j 00:40 -4595 Jun 14 j 13:58 15°**8**54'39 0°05'16 conjunction conjunction -4600 May 21 j 00:40 -4595 Jun 14 j 13:58 15°**8**54'39 minimum elong 22°**Y**33'08 0°15'01 minimum elong 0°05'26 behind sun begin -4600 May 20 j 22:33 22°**Y**32'49 behind sun begin -4595 Jun 14 j 07:27 15°**8**53'39 behind sun end -4600 May 21 j 02:46 22°**Y**33'26 behind sun end -4595 Jun 14 j 20:29 15°**8**55'38 morning rise -4600 Jun 06 j 17:53 23°**Y**33'59 morning rise -4595 Jul 01 j 02:47 16°**8**55'59 retrograde -4600 Sep 07 j 01:09 26°Y52'38 retrograde -4595 Sep 30 j 16:18 20°**8**16'47 -4600 Nov 19 j 14:46 24°Y50'22 -0°14'39 -4595 Dec 12 j 22:55 18°**8**14'36 0°08'05 opposition opposition min. Earth dist. -4600 Nov 20 j 15:42 24°**Υ**47'39 17.62148 AU min. Earth dist. -4595 Dec 14 j 02:25 18°**8**11'36 17.39925 AU -4599 Feb 03 j 02:49 22°Y45'13 -4594 Feb 27 j 01:17 16°**8**08'25 direct direct -4599 May 09 j 07:20 26°Y09'02 -4594 Jun 03 j 02:09 19°**8**37'21 evening set evening set 27°**Υ**05'38 19.59369 AU max. Earth dist. -4599 May 24 j 19:39 max. Earth dist. -4594 Jun 18 i 10:02 20°**8**34'17 19.38302 AU 27°**Y**'10'22 -0°11'12 -4594 Jun 19 i 17:41 20°839'14 0°09'23 conjunction -4599 May 26 j 02:28 conjunction -4599 May 26 i 02:28 minimum elong 27°Υ10'22 0°11'07 minimum elong -4594 Jun 19 i 17:41 20°**8**39'14 0°09'33 behind sun begin -4599 May 25 j 21:29 27°**Y**′09'37 behind sun begin -4594 Jun 19 i 12:07 20°838'23 behind sun end -4599 May 26 i 07:26 27°**Y**11′06 behind sun end -4594 Jun 19 j 23:15 20°840'05 -4599 Jun 11 i 19:06 28°Y11'21 morning rise -4594 Jul 06 j 05:21 21°**8**40'36 morning rise -4599 Jul 14 j 22:28 0°8 retrograde -4594 Oct 05 j 17:19 25°**8**01'42 retrograde -4599 Sep 11 j 22:38 1°830'29 opposition -4594 Dec 17 j 22:01 22°**8**59'36 0°12'40 17.36864 AU -4599 Nov 12 j 02:59 30°R℃ min. Earth dist. -4594 Dec 19 j 01:09 22°**8**56'38 29°Y28'09 -0°10'14 opposition -4599 Nov 24 j 09:58 direct -4593 Mar 04 j 03:41 20°853'18 -4599 Nov 25 j 11:25 min. Earth dist. 29°**Υ**25'23 17.56757 AU evening set -4593 Jun 08 j 07:05 24°**8**22'59 -4598 Feb 08 j 01:44 27°**Y**22'42 direct 0° 8 -4593 Jun 24 j 21:33 25°**8**24'54 0°13'27 -4598 Apr 30 j 19:09 conjunction 0°847'39 -4593 Jun 24 j 21:33 25°**8**24'54 evening set -4598 May 14 j 09:56 minimum elong 0°13'38 -4598 May 29 j 22:29 25°**8**24'21 max. Earth dist. 1°**8**44'30 19.54199 AU behind sun begin -4593 Jun 24 j 17:59 behind sun end -4593 Jun 25 j 01:08 25°**8**25'27 conjunction -4598 May 31 j 04:43 1°**8**49'09 -0°07'12 max. Earth dist. -4593 Jun 23 j 13:16 25°**8**19'51 19.35448 AU minimum elong -4598 May 31 j 04:43 1°**8**49'09 0°07'06 morning rise -4593 Jul 11 j 08:02 26°**8**26'16 behind sun begin -4598 May 30 j 22:29 1°**8**48'13 retrograde -4593 Oct 10 j 16:33 29°**8**47'39 -4598 May 31 j 10:57 1°850'05 -4593 Dec 22 j 22:04 27°845'36 0°17'11 behind sun end opposition

-4598 Jun 16 j 20:24

morning rise

2°850'15

min. Earth dist.

-4593 Dec 24 j 02:05

27°**8**42'33 17.34232 AU

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Earth dist. -4592 Jun 29 j 01:26 0°П11'26 0°17'27 conjunction -4585 Feb 26 j 13:44 30°R,Ⅲ 29°**Ⅱ**10'44 minimum elong -4592 Jun 29 j 01:26 0°**Ⅱ**11'26 0°17'39 direct -4585 Apr 12 j 11:47 -4592 Jul 15 j 10:41 1°**Ⅱ**12'47 morning rise -4585 May 26 j 04:14 0ಂತಾ -4585 Jul 17 j 16:21 retrograde -4592 Oct 14 j 18:26 4°**Ⅲ**34'23 evening set 2°5642'04 opposition -4592 Dec 26 j 22:39 2°**II**32'22 0°21'36 min. Earth dist. -4592 Dec 28 j 01:41 2°**Ⅲ**29'26 17.32017 AU conjunction -4585 Aug 02 j 20:52 3°**5**43'12 0°40'40 -4585 Aug 02 j 20:52 direct -4591 Mar 13 j 09:16 0°**I**I25'54 minimum elong 3°**5**43'12 0°40'54 -4585 Aug 01 j 22:10 evening set -4591 Jun 17 j 17:05 3°**I**I56'44 max. Earth dist. 3°**©**39'36 19.30144 AU max. Earth dist. -4591 Jul 02 j 21:48 4°**Д**53'40 19.31027 AU morning rise -4585 Aug 18 j 21:01 4°9543'44 retrograde -4585 Nov 17 j 18:34 8°905'27 conjunction -4591 Jul 04 j 05:18 4°**Ⅱ**58'38 0°21'20 opposition -4584 Jan 30 j 14:12 6°9503'40 0°46'42 minimum elong -4591 Jul 04 j 05:17 4°**Ⅱ**58'38 0°21'32 min. Earth dist. -4584 Jan 31 j 10:33 6°901'29 17.31118 AU morning rise -4591 Jul 20 j 13:12 5°**Ⅱ**59'55 direct -4584 Apr 16 j 16:24 3°957'23 retrograde -4591 Oct 19 j 17:46 9°**Ⅱ**21'42 evening set -4584 Jul 21 j 18:30 7°528'23 opposition -4591 Dec 31 j 23:53 7°**Ⅱ**19'43 0°25'52 min. Earth dist. -4590 Jan 02 j 03:34 7°**I**16'42 17.30256 AU conjunction -4584 Aug 06 j 21:30 8°929'18 0°43'01 direct -4590 Mar 18 j 11:36 5°**Ⅱ**13'09 minimum elong -4584 Aug 06 j 21:30 8°9529'18 0°43'14 -4590 Jun 22 j 21:50 8°**Ⅱ**44'24 max. Earth dist. -4584 Aug 05 i 23:52 8°925'52 19.32183 AU evening set max. Earth dist. -4590 Jul 08 j 01:46 9°**Ⅱ**41'19 19.29505 AU morning rise -4584 Aug 22 i 20:35 9°9529'38 retrograde -4584 Nov 21 j 18:35 12°951'13 -4590 Jul 09 j 08:48 9°II46'13 0°25'05 -4583 Feb 03 j 17:16 10°949'32 0°49'09 conjunction opposition -4590 Jul 09 j 08:48 9°**Ⅱ**46′13 0°25'18 -4583 Feb 04 j 11:05 10°9547'38 min. Earth dist. 17 33482 AU minimum elong -4590 Jul 25 j 15:34 10°**Ⅱ**47'27 direct -4583 Apr 21 j 21:17 8°9543'29 morning rise -4590 Oct 24 j 19:37 14°**Ⅱ**09'20 -4583 Jul 26 j 19:53 12°9514'02 retrograde evening set -4589 Jan 06 j 01:25 12°**Ⅲ**07'22 0°29'58 opposition -4589 Jan 07 j 03:35 12°**Д**04'31 17.28967 AU 13°9514'44 0°45'03 min. Earth dist. conjunction -4583 Aug 11 j 21:45 10°**Ⅱ**00'46 -4583 Aug 11 j 21:45 -4589 Mar 23 j 16:36 minimum elong 13°9514'44 0°45'17 direct -4583 Aug 11 j 03:32 -4589 Jun 28 j 02:26 13°**Ⅲ**32′16 max. Earth dist. 13°511'51 19.34863 AU evening set -4589 Jul 13 j 06:32 14°**I**129'20 19.28462 AU -4583 Aug 27 j 19:32 max. Earth dist. morning rise 14°9514'52 -4583 Nov 26 j 17:52 retrograde 17°936'14 -4589 Jul 14 j 12:14 14°**Ⅲ**34'01 0°28'39 -4582 Feb 08 j 20:19 conjunction opposition 15°934'43 0°51'15 -4589 Jul 14 j 12:13 -4582 Feb 09 j 12:31 minimum elong 14°**I**I34′01 0°28′52 min. Earth dist. 15°932'59 17.36453 AU morning rise -4589 Jul 30 j 17:33 15°**Ⅲ**35′09 direct -4582 Apr 27 j 00:58 13°9528'57 retrograde -4589 Oct 29 j 18:50 18°**耳**57′06 -4582 Jul 31 j 20:44 16°958'56 evening set -4588 Jan 11 j 03:27 16°**耳**55′09 0°33′50 opposition min. Earth dist. -4588 Jan 12 j 05:54 16°**Ⅲ**52'16 17.28191 AU conjunction -4582 Aug 16 j 21:12 17°959'24 0°46'47 -4588 Mar 27 j 19:48 14°**Ⅱ**48'30 -4582 Aug 16 j 21:11 17°959'24 0°47'02 direct minimum elong -4588 Jul 02 j 06:45 18°**Ⅲ**20′10 max. Earth dist. -4582 Aug 16 j 04:09 17°556'42 19.38126 AU evening set -4588 Jul 17 j 10:02 19°**耳**17'11 19.27969 AU -4582 Sep 01 j 18:01 18°**9**59'19 max. Earth dist. morning rise -4582 Dec 01 j 17:55 22°5520'28 retrograde -4588 Jul 18 i 15:07 19°**Ⅲ**21'48 0°32'01 conjunction opposition -4581 Feb 13 i 23:21 20°519'05 0°53'00 minimum elong -4588 Jul 18 i 15:07 19°**Ⅱ**21'48 0°32'14 min. Earth dist. -4581 Feb 14 i 13:25 20°517'35 17.39984 AU morning rise -4588 Aug 03 i 19:17 20°**Ⅲ**22'48 direct -4581 May 02 j 04:24 18°9513'37 retrograde -4588 Nov 02 j 20:17 23°**Ⅱ**44'46 evening set -4581 Aug 05 j 20:44 21°9542'57 -4587 Jan 15 i 05:48 21°II42'49 0°37'28 opposition min. Earth dist. -4587 Jan 16 j 06:09 21°**Ⅱ**40'11 17.27980 AU -4581 Aug 21 j 20:04 22°5643'09 0°48'12 conjunction -4587 Apr 02 j 01:41 19°**Ⅲ**36′12 -4581 Aug 21 j 20:04 22°543'09 0°48'25 direct minimum elong max. Earth dist. -4587 Jul 07 j 10:20 23°**Ⅲ**07'51 -4581 Aug 21 j 06:16 22°540'58 19.41906 AU evening set morning rise -4581 Sep 06 j 15:42 23°9542'50 conjunction -4587 Jul 23 j 17:31 24°II09'21 0°35'09 retrograde -4581 Dec 06 j 17:14 27°903'41 minimum elong -4587 Jul 23 j 17:31 24°**Ⅲ**09′21 0°35'23 opposition -4580 Feb 19 j 02:21 25°**©**02'28 0°54'23 -4587 Jul 22 j 14:55 24°**Д**05'08 19.28053 AU min. Earth dist. -4580 Feb 19 j 14:22 25°**©**01'12 17.43984 AU max. Earth dist. -4587 Aug 08 j 20:13 25°**Ⅲ**10′13 22°957'21 morning rise direct -4580 May 06 j 07:37 -4587 Nov 07 j 19:07 28°**Ⅲ**32′09 -4580 Aug 09 j 20:10 26°925'54 retrograde evening set -4586 Jan 20 j 08:32 26°**Ⅲ**30'13 0°40'51 opposition min. Earth dist. -4586 Jan 21 j 08:26 26°**Ⅲ**27'38 17.28374 AU conjunction -4580 Aug 25 j 18:10 27°**©**25'50 0°49'17 direct -4586 Apr 07 j 05:53 24°**Ⅲ**23'39 minimum elong -4580 Aug 25 j 18:10 27°925'50 0°49'30 evening set -4586 Jul 12 j 13:40 27°**Ⅲ**55'12 max. Earth dist. -4580 Aug 25 j 05:47 27°**©**23'52 19.46131 AU morning rise -4580 Sep 10 j 12:54 28°925'15 conjunction -4586 Jul 28 j 19:21 28°**II**56'31 0°38'03 -4580 Oct 08 j 02:18 0 \circ Ω -4586 Jul 28 j 19:21 28°**Ⅲ**56'31 -4580 Dec 10 j 16:42 1° **Q**45'48 minimum elong 0°38'16 retrograde max. Earth dist. -4586 Jul 27 j 17:35 28°**Д**52'26 19.28771 AU -4579 Feb 17 j 04:04 30°R.55

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 27 Attention, astronomical year style is used: The year -4579 in astronomical counting style is the year 4580 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ne year -4579 i	in astronomical co	unting style is the year	4580 BCE in historical c	counting style.	
opposition	-4579 Feb 23 j 05:14	29°5544'42	0°55'23	evening set	-4573 Sep 11 j 13:20	28° Ω 41'38	
min. Earth dist.	-4579 Feb 23 j 15:25	29° 5 43'37	17.48420 AU				
direct	-4579 May 11 j 10:24	27° © 39'54		conjunction	-4573 Sep 27 j 04:59	29° Ω 39'27	0°47'36
	-4579 Jul 26 j 15:16	0 $^{\circ}$ Ω		minimum elong	-4573 Sep 27 j 04:59	29° Ω 39'27	0°47'44
evening set	-4579 Aug 14 j 18:29	1° Ω 07'35		max. Earth dist.	-4573 Sep 27 j 09:04	29° Ω 40′05	19.84306 AU
					-4573 Oct 02 j 17:32	0° ™	
conjunction	-4579 Aug 30 j 15:28	2° Ω 07'13	0°50'02	morning rise	-4573 Oct 12 j 19:10	0° Mp 37′02	
minimum elong	-4579 Aug 30 j 15:28	2° Ω 07′13	0°50'14	retrograde	-4572 Jan 12 j 14:14	3°₩ 54'06	
max. Earth dist.	-4579 Aug 30 j 06:01	2° Ω 05'43	19.50752 AU	opposition	-4572 Mar 28 j 12:29	1°₩53'26	0°52'10
morning rise	-4579 Sep 15 j 09:14	3° Ω 06′23		min. Earth dist.	-4572 Mar 28 j 06:19	1° m 54'04	17.87513 AU
retrograde	-4579 Dec 15 j 15:08	6° Ω 26'33			-4572 May 25 j 21:28	30° R Ω	
opposition	-4578 Feb 28 j 07:45	4° Ω 25'35	0°56'01	direct	-4572 Jun 13 j 19:14	29° Ω 51′00	
min. Earth dist.	-4578 Feb 28 j 15:26	4° Ω 24'46	17.53199 AU		-4572 Jul 02 j 08:07	0° ™	
direct	-4578 May 16 j 13:42	2° Ω 21′08		evening set	-4572 Sep 15 j 04:55	3° m 10'17	
evening set	-4578 Aug 19 j 16:11	5° Ω 47'49					
				conjunction	-4572 Sep 30 j 20:01	4° Mp 07'48	0°46'09
conjunction	-4578 Sep 04 j 12:01	6° Ω 47'09		minimum elong	-4572 Sep 30 j 20:01	4° Mp 07'48	0°46'16
minimum elong	-4578 Sep 04 j 12:01	6° Ω 47'09	0°50'37	max. Earth dist.	-4572 Oct 01 j 03:08	4° ₯ 08'54	19.90781 AU
max. Earth dist.	-4578 Sep 04 j 04:11	6° Ω 45'55	19.55689 AU	morning rise	-4572 Oct 16 j 09:49	5° ™ 05'08	
morning rise	-4578 Sep 20 j 04:59	7° Ω 46'04		retrograde	-4571 Jan 16 j 06:30	8°Mp21'38	
retrograde	-4578 Dec 20 j 12:46	11° Ω 05'48		opposition	-4571 Apr 02 j 11:00	6° Mp 21′02	0°50'22
opposition	-4577 Mar 05 j 09:53	9° Ω 04'55	0°56'16	min. Earth dist.	-4571 Apr 02 j 03:23	6° ™ 21'49	17.94123 AU
min. Earth dist.	-4577 Mar 05 j 16:07	9° Ω 04'16	17.58288 AU	direct	-4571 Jun 18 j 15:32	4° الله 19′00	
direct	-4577 May 21 j 15:39	7° Ω 00'48		evening set	-4571 Sep 19 j 19:30	7° m 36'57	
evening set	-4577 Aug 24 j 12:53	10° Ω 26′25					
				conjunction	-4571 Oct 05 j 10:03	8° Mp 34'10	0°44'25
conjunction	-4577 Sep 09 j 07:46	11° Ω 25'27	0°50'31	minimum elong	-4571 Oct 05 j 10:03	8° Mp 34'10	0°44'31
minimum elong	-4577 Sep 09 j 07:46	11° Ω 25'27	0°50'42	max. Earth dist.	-4571 Oct 05 j 19:05	8° m 35'33	19.97518 AU
max. Earth dist.	-4577 Sep 09 j 02:29	11° Ω 24'38	19.60921 AU	morning rise	-4571 Oct 20 j 23:46	9° m 31'15	
morning rise	-4577 Sep 24 j 23:57	12° Ω 24'06		retrograde	-4570 Jan 21 j 00:35	12° m 47'11	
	-4577 Nov 15 j 06:01	15° Ω		opposition	-4570 Apr 07 j 08:36	10° m 46'41	0°48'18
retrograde	-4577 Dec 25 j 10:00	15° Ω 43'21		min. Earth dist.	-4570 Apr 06 j 21:30	10° m 47'50	18.00962 AU
	-4576 Feb 05 j 01:25	15° ŖΩ		direct	-4570 Jun 23 j 12:36	8° Mp 45'05	
opposition	-4576 Mar 09 j 11:37	13° Ω 42′33	0°56'09	evening set	-4570 Sep 24 j 09:10	12° m 01'42	
min. Earth dist.	-4576 Mar 09 j 14:55	13° Ω 42'12	17.63636 AU				
direct	-4576 May 25 j 18:43	11° Ω 38'47		conjunction	-4570 Oct 09 j 23:22	12° m 58'38	0°42'27
	-4576 Aug 27 j 11:25	15° Ω		minimum elong	-4570 Oct 09 j 23:22	12° m 58'38	0°42'32
evening set	-4576 Aug 28 j 08:31	15° Ω 03'13		max. Earth dist.	-4570 Oct 10 j 11:30	13° m 00'30	20.04445 AU
				morning rise	-4570 Oct 25 j 12:50	13° m 55'29	
conjunction	-4576 Sep 13 j 02:27	16° Ω 01'57	0°50'15	retrograde	-4569 Jan 25 j 15:36	17° m) 10'51	
minimum elong	-4576 Sep 13 j 02:28	16° Ω 01'57	0°50'25	opposition	-4569 Apr 12 j 05:35	15° m 10'30	0°45'57
max. Earth dist.	-4576 Sep 12 j 23:21	16° Ω 01'28	19.66395 AU	min. Earth dist.	-4569 Apr 11 j 17:12	15° Mp 11'46	18.07971 AU
morning rise	-4576 Sep 28 j 18:00	17° Ω 00′20		direct	-4569 Jun 28 j 06:55	13° m 09'21	
retrograde	-4576 Dec 29 j 05:33	20° Ω 19′06		evening set	-4569 Sep 28 j 22:04	16°M 24'39	
opposition	-4575 Mar 14 j 12:58	18° Ω 18′20	0°55'40				
min. Earth dist.	-4575 Mar 14 j 14:55	18° Ω 18′07	17.69238 AU	conjunction	-4569 Oct 14 j 11:50	17° m 21'19	0°40'15
direct	-4575 May 30 j 19:27	16° Ω 14'53		minimum elong	-4569 Oct 14 j 11:50	17° m 21'19	0°40'18
evening set	-4575 Sep 02 j 03:11	19° Ω 38′05		max. Earth dist.	-4569 Oct 15 j 01:31	17° m 23'24	20.11528 AU
				morning rise	-4569 Oct 30 j 01:23	18° m 17'56	
conjunction	-4575 Sep 17 j 20:19	20° Ω 36'31	0°49'40	retrograde	-4568 Jan 30 j 08:47	21° My 32'45	
minimum elong	-4575 Sep 17 j 20:19	20° Ω 36'31	0°49'50	min. Earth dist.	-4568 Apr 15 j 10:17	19° m 34'07	18.15098 AU
max. Earth dist.	-4575 Sep 17 j 19:33	20° Ω 36′24	19.72125 AU	opposition	-4568 Apr 16 j 01:48	19° m 32'32	0°43'22
morning rise	-4575 Oct 03 j 11:21	21° Ω 34'38		direct	-4568 Jul 02 j 01:31	17° m 31'51	
retrograde	-4574 Jan 03 j 01:34	24° Ω 52'50		evening set	-4568 Oct 02 j 09:58	20° m 45'51	
opposition	-4574 Mar 19 j 13:19	22° Ω 52'06	0°54'50	-	-		
min. Earth dist.	-4574 Mar 19 j 12:05	22° Ω 52'14	17.75076 AU	conjunction	-4568 Oct 17 j 23:36	21°Mp42'14	0°37'50
direct	-4574 Jun 04 j 20:54	20° Ω 48'58		minimum elong	-4568 Oct 17 j 23:36	21° m)42'15	0°37'53
evening set	-4574 Sep 06 j 20:48	24° Ω 10′55		max. Earth dist.	-4568 Oct 18 j 16:19	21° m) 44'47	20.18674 AU
-	- •			morning rise	-4568 Nov 02 j 13:07	22°m/38'38	
conjunction	-4574 Sep 22 j 13:12	25° Ω 09'02	0°48'47	retrograde	-4567 Feb 02 j 23:18	25° m 52'55	
minimum elong	-4574 Sep 22 j 13:12	25° Ω 09'02	0°48'55	opposition	-4567 Apr 20 j 21:24	23° m 52'51	0°40'32
max. Earth dist.	-4574 Sep 22 j 15:02	25° Ω 09'19	19.78084 AU	min. Earth dist.	-4567 Apr 20 j 04:51		18.22250 AU
morning rise	-4574 Oct 08 j 03:43	26° Ω 06′53		direct	-4567 Jul 06 j 18:25	21° m 52'38	
retrograde	-4573 Jan 07 j 19:18	29° Ω 24'31		evening set	-4567 Oct 06 j 21:21	25° m 05'20	
opposition	-4573 Mar 24 j 13:19	27° Ω 23'49	0°53'39	-	•		
min. Earth dist.	-4573 Mar 24 j 10:44	27° Ω 24'05	17.81166 AU	conjunction	-4567 Oct 22 j 10:42	26° Mp 01'28	0°35'12
direct	-4573 Jun 09 j 19:36	25° Ω 21′01		minimum elong	-4567 Oct 22 j 10:42	26° mp 01'28	0°35'14
	=			-	-		

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4567 in astronomical counting style is the year 4568 BCE in historical counting style. -4567 Oct 23 i 04:24 26° m 04'09 20.25816 AU retrograde -4560 Mar 04 i 20:36 25°**£**26'53 max. Earth dist. -4567 Nov 07 j 00:28 26° m 57'40 -4560 May 21 j 15:53 23°**₽**27'16 0°16'06 morning rise opposition -4566 Jan 17 j 13:54 0∘**⊽** min. Earth dist. -4560 May 20 j 13:41 23°**≏**29'54 18.67527 AU 0°**£**11'24 -4566 Feb 07 j 15:11 direct -4560 Aug 05 j 23:14 21°**♀**29'29 retrograde -4566 Mar 01 j 01:19 -4560 Nov 04 j 09:07 30°R, Mp evening set 24°**£**33'47 0°37'30 opposition -4566 Apr 25 j 15:56 28° Mp 11'28 28° My 13'24min. Earth dist. -4566 Apr 24 j 20:52 18.29360 AU conjunction -4560 Nov 19 j 23:36 25°**£**28'29 0°12'52 -4566 Jul 11 j 10:42 -4560 Nov 19 j 23:36 direct 26° m 11'42 minimum elong 25°**£**28'29 0°12'46 -4560 Nov 19 j 19:25 evening set -4566 Oct 11 j 07:54 29° m 23'08 behind sun begin 25°**£**27'53 -4566 Oct 21 j 15:05 0∘**⊽** behind sun end -4560 Nov 20 j 03:47 25°**2**29'05 max. Earth dist. -4560 Nov 21 j 03:29 25°**♀**32'35 20.70247 AU -4566 Oct 26 j 21:16 0°**2**19'02 0°32'24 conjunction morning rise -4560 Dec 05 j 16:11 26°**₽**23'31 -4566 Oct 26 j 21:16 minimum elong 0°**Ω**19'02 0°32'24 retrograde -4559 Mar 09 j 05:48 29°**₽**33'31 max. Earth dist. -4566 Oct 27 j 17:38 0°**£**22'06 20.32862 AU min. Earth dist. -4559 May 25 j 01:56 27°**2**36'36 18.72954 AU morning rise -4566 Nov 11 j 11:06 1°**£**15′01 opposition -4559 May 26 j 04:58 27°**♀**33'53 0°12'13 retrograde -4565 Feb 12 j 04:52 4°**٩**28'12 direct -4559 Aug 10 j 11:05 25°**2**36'21 opposition -4565 Apr 30 j 10:00 2°**£**28'24 0°34'17 evening set -4559 Nov 08 j 15:20 28°**♀**39'37 min. Earth dist. -4565 Apr 29 j 14:05 2°**2**30'25 18.36336 AU direct -4565 Jul 16 j 02:52 0°**£**29'04 conjunction -4559 Nov 24 j 06:04 29°**♀**34'10 0°09'21 evening set -4565 Oct 15 j 17:48 3°**△**39'14 minimum elong -4559 Nov 24 j 06:04 29°**♀**34'10 0°09'15 behind sun begin -4559 Nov 24 j 00:31 29°**₽**33'23 conjunction -4565 Oct 31 i 07:00 4°**2**34'54 0°29'26 behind sun end -4559 Nov 24 i 11:37 29°**♀**34'58 -4565 Oct 31 i 07:00 4°**£**34'54 0°29'26 max. Earth dist. -4559 Nov 25 i 09:54 29° **△**38'15 20.75557 AU minimum elong max. Earth dist. -4565 Nov 01 i 03:54 4°**2**38'02 20.39751 AU -4559 Dec 01 j 14:20 0°M morning rise -4565 Nov 15 j 21:14 5°**₽**30'42 morning rise -4559 Dec 09 j 23:26 0°M29'06 -4564 Feb 16 j 19:49 8°**£**43'22 -4558 Mar 13 j 16:43 3°MJ38'37 retrograde retrograde -4564 May 03 j 05:17 6°**2**45'52 18.43126 AU -4558 May 30 j 17:12 1°M239'00 0°08'18 min. Earth dist. opposition -4564 May 04 j 03:15 0°30'53 -4558 May 29 j 13:12 6°<u>₽</u>43'39 min. Earth dist. 1°M,41'48 18 78159 AU opposition -4564 Jul 19 j 17:26 4°**£**44'42 -4558 Jul 18 j 13:46 30°R <u>Ω</u> direct -4564 Oct 19 j 02:59 7°**♀**53'38 -4558 Aug 14 j 20:42 29°**-**41'41 direct evening set -4558 Sep 10 j 13:10 0°M -4564 Nov 03 j 16:24 8°**2**49'05 0°26'19 -4558 Nov 12 j 20:56 conjunction evening set 2°M44'01 -4564 Nov 03 j 16:24 8°**2**49'05 0°26'17 minimum elong -4564 Nov 04 j 15:39 -4558 Nov 28 j 12:17 3°M38'27 0°05'50 max. Earth dist. 8°**♀**52'33 20.46410 AU conjunction -4564 Nov 19 j 06:51 -4558 Nov 28 j 12:17 morning rise 9°**£**44'42 minimum elong 3°**™**38'27 0°05'43 -4563 Feb 20 j 08:04 -4558 Nov 28 j 06:00 retrograde 12°**2**56'48 behind sun begin 3°M37'33 -4558 Nov 28 j 18:34 opposition -4563 May 08 j 19:37 10°**⊆**57'10 0°27'21 behind sun end 3°**™**39'20 min. Earth dist. -4563 May 07 j 20:57 10°**♀**59'28 18.49653 AU max. Earth dist. -4558 Nov 29 j 18:13 3°M42'49 20.80639 AU -4563 Jul 24 j 08:39 8°**£**58'35 morning rise -4558 Dec 14 j 06:11 4°ML33'16 direct -4563 Oct 23 j 11:36 12°**2**06'18 retrograde -4557 Mar 18 j 01:17 7°ML42'22 evening set min. Earth dist. -4557 Jun 02 j 23:57 5°M45'40 18.83122 AU -4563 Nov 08 j 01:04 13°**♀**01'32 0°23'05 -4557 Jun 04 j 04:49 5°M42'46 0°04'22 conjunction opposition -4563 Nov 08 j 01:04 -4557 Aug 19 j 06:31 3°M45'42 minimum elong 13°**♀**01'32 0°23'03 direct -4563 Nov 09 j 00:24 13°**♀**05'01 20.52800 AU -4557 Nov 17 j 02:11 6°ML47′09 max. Earth dist. evening set -4563 Nov 23 j 16:07 morning rise 13°**♀**57'00 -4557 Dec 02 i 17:54 retrograde -4562 Feb 24 i 21:43 17°**₽**08'34 conjunction 7°ML41'28 0°02'16 -4557 Dec 02 i 17:55 min. Earth dist. -4562 May 12 j 10:59 15°**≙**11'23 18.55900 AU minimum elong 7°M41'28 0°02'08 -4557 Dec 02 j 11:22 opposition -4562 May 13 j 11:10 15°**♀**08'57 0°23'41 behind sun begin 7°**IL**40'32 direct -4562 Jul 28 j 21:51 13°**♀**10'40 behind sun end -4557 Dec 03 i 00:27 7°**IL**42'23 -4562 Oct 27 j 19:21 16°**♀**17'12 max. Earth dist. -4557 Dec 03 i 23:39 7°ML45'48 20.85483 AU evening set -4557 Dec 18 j 12:44 8°MJ36'12 morning rise -4562 Nov 12 j 09:09 17°**£**12'15 0°19'45 retrograde -4556 Mar 21 j 11:14 11°ML44'56 conjunction -4562 Nov 12 j 09:09 -4556 Jun 06 j 10:26 9°ML48'19 18.87844 AU minimum elong 17° **2**12'15 0°19'41 min. Earth dist. max. Earth dist. -4562 Nov 13 j 10:41 17°**£**16'02 20.58888 AU opposition -4556 Jun 07 j 15:52 9°M45'23 0°00'26 8°M19'51 morning rise -4562 Nov 28 j 00:32 18°**♀**07'33 desc. node -4556 Jul 17 j 12:46 retrograde -4561 Mar 01 j 08:20 21°**Ω**18'34 direct -4556 Aug 22 j 14:32 7°M48'33 min. Earth dist. -4561 May 17 j 01:00 19°**£**21'29 18.61841 AU evening set -4556 Nov 20 j 07:07 10°M49'12 -4561 May 18 j 01:56 0°19'56 opposition 19°**≙**18'59 -4561 Aug 02 j 11:41 17°**£**20'58 -4556 Dec 05 j 23:36 11° ML43'26 -0°01'24 direct conjunction -4561 Nov 01 j 02:38 evening set 20°**£**26'21 minimum elong -4556 Dec 05 j 23:36 11°M43'26 0°01'31 behind sun begin -4556 Dec 05 j 17:03 11°M42'31 conjunction -4561 Nov 16 j 16:35 21°**2**21'13 0°16'20 behind sun end -4556 Dec 06 j 06:10 11°M44'22 minimum elong -4561 Nov 16 j 16:35 21°**₽**21'13 0°16'16 max. Earth dist. -4556 Dec 07 j 07:08 11°M48'01 20.90056 AU behind sun begin -4561 Nov 16 j 16:30 21°**2**21'12 morning rise -4556 Dec 21 j 19:05 12°MJ38'06 behind sun end -4561 Nov 16 j 16:40 21°**2**21'14 -4555 Feb 09 j 17:03 15°M -4561 Nov 17 j 18:13 21°**£**25'00 20.64698 AU -4555 Mar 25 j 20:00 15°M46'29 max. Earth dist. retrograde

-4561 Dec 02 j 08:41

morning rise

22°**♀**16'23

-4555 May 10 j 08:31

15°RM

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Earth dist. -4555 Dec 10 j 04:57 15°M44'31 -0°04'57 -4549 Jul 07 j 05:36 conjunction opposition 7°**х** 43'32 -0°25'51 -4555 Dec 10 j 04:56 5°**х** 47'48 minimum elong 15°M44'31 0°05'06 direct -4549 Sep 20 j 12:41 -4555 Dec 09 j 22:34 -4549 Dec 18 j 15:16 8°**х** 44′59 behind sun begin 15°M43'37 evening set behind sun end -4555 Dec 10 j 11:19 15°M45'25 max. Earth dist. -4555 Dec 11 j 11:48 15°M48'59 20.94312 AU conjunction -4548 Jan 03 j 12:59 9°**х** 39'03 -0°24'54 -4548 Jan 03 j 12:59 morning rise -4555 Dec 26 j 01:24 16°M39'08 minimum elong 9° \$\square\$ 39'03 0°25'06 -4548 Jan 04 j 17:49 retrograde -4554 Mar 30 j 04:58 19°M47'13 max. Earth dist. 9°**尽**43'10 21.10282 AU min. Earth dist. -4554 Jun 15 j 05:54 17°M50'48 18.96348 AU morning rise -4548 Jan 19 j 14:58 10° **₹**33'42 opposition -4554 Jun 16 j 11:51 17°**M**47'49 -0°07'24 retrograde -4548 Apr 23 j 06:36 13°**∡**¹40'40 direct -4554 Aug 31 j 05:29 15°M51'27 min. Earth dist. -4548 Jul 09 j 10:05 11°**∡**′44′03 19.10774 AU evening set -4554 Nov 28 j 16:23 18°M50'46 opposition -4548 Jul 10 j 12:47 11°**∡**′41′22 -0°29'13 direct -4548 Sep 23 j 17:16 9°**х** 45′37 conjunction -4554 Dec 14 j 10:12 19°M44'51 -0°08'26 evening set -4548 Dec 21 j 19:53 12°**х** 42'34 minimum elong -4554 Dec 14 j 10:11 19°M44'51 0°08'36 19°ML44'03 behind sun begin -4554 Dec 14 j 04:27 conjunction -4547 Jan 06 j 18:41 13°**∡**36'41 -0°27'53 behind sun end -4554 Dec 14 i 15:56 19°M45'40 minimum elong -4547 Jan 06 i 18:41 13°**∡** 36'41 0°28'06 max. Earth dist. -4554 Dec 15 i 18:29 19°M49'31 20.98201 AU max. Earth dist. -4547 Jan 07 i 23:49 13° ₹ 40'50 21.11041 AU morning rise -4554 Dec 30 i 07:20 20°M39'27 morning rise -4547 Jan 22 j 21:29 14°**х** 31′23 retrograde -4553 Apr 03 j 13:52 23°M47'17 retrograde -4547 Apr 27 j 14:02 17°**∡**38'14 opposition -4553 Jun 20 j 21:07 -4547 Jul 14 j 19:15 15°**∡**38'52 -0°32'25 21°M-47'57 -0°11'15 opposition -4553 Jun 19 j 14:53 21°ML50'58 19.00029 AU -4547 Jul 13 j 16:55 15°**₹**'41'31 19.11270 AU min. Earth dist. min. Earth dist. -4547 Sep 27 j 22:57 13°**х** 43′03 direct -4553 Sep 04 j 13:04 19°M.51'48 direct -4553 Dec 02 j 21:03 -4547 Dec 26 j 00:40 16°**х** 39′51 22°M50'33 evening set evening set 23°M44'36 -0°11'53 -4553 Dec 18 j 15:24 -4546 Jan 11 j 00:14 17°**∡**34'01 -0°30'43 conjunction conjunction -4546 Jan 11 j 00:14 minimum elong -4553 Dec 18 j 15:24 23°M44'36 0°12'03 minimum elong 17° **₹**34'01 0°30'56 -4546 Jan 12 j 03:27 -4553 Dec 18 j 10:53 23°M43'58 max. Earth dist. 17°**尽**37'53 21.11299 AU behind sun begin -4553 Dec 18 j 19:56 -4546 Jan 27 j 04:11 18°**∡** 28'47 behind sun end 23°M45'14 morning rise -4553 Dec 19 j 22:35 -4546 May 01 j 21:28 21°**∡**³35'34 max. Earth dist. 23°M49'05 21.01668 AU retrograde -4552 Jan 03 j 13:36 -4546 Jul 18 j 00:47 19°**✗**38'36 19.11303 AU morning rise 24°M39'11 min. Earth dist. -4552 Apr 06 j 22:15 -4546 Jul 19 j 01:38 19°**∡** 36′07 -0°35′29 retrograde 27°**™**46'48 opposition min. Earth dist. -4552 Jun 23 j 00:20 25°M50'29 19.03274 AU direct -4546 Oct 02 j 02:21 17°**х** 40′12 opposition -4552 Jun 24 j 05:55 25°M47'31 -0°15'02 evening set -4546 Dec 30 j 05:19 20°**х** 36′55 direct -4552 Sep 07 j 18:42 23°M51'33 -4552 Dec 06 j 01:31 26°M49'49 conjunction -4545 Jan 15 j 06:00 21°**∡**31'10 -0°33'24 evening set -4545 Jan 15 j 06:00 21°**х** 31'10 0°33'37 minimum elong -4552 Dec 21 j 20:50 27°ML43'51 -0°15'16 max. Earth dist. -4545 Jan 16 j 09:34 21°**₰**35'05 21.11107 AU conjunction -4552 Dec 21 j 20:50 27°M43'51 -4545 Jan 31 j 10:47 22°**҂**¹26′00 minimum elong 0°15'27 morning rise -4552 Dec 21 j 18:53 -4545 May 06 j 05:16 25°**∡**32'46 behind sun begin 27°M43'35 retrograde -4545 Jul 22 i 07:06 23°**✗**35'42 19.10895 AU behind sun end -4552 Dec 21 i 22:47 27°M44'07 min. Earth dist. max. Earth dist. -4552 Dec 23 i 04:49 27°M48'26 21.04655 AU opposition -4545 Jul 23 i 07:39 23°**₹**33'14 -0°38'21 morning rise -4551 Jan 06 i 19:47 28°M38'25 direct -4545 Oct 06 i 08:01 21°×37'13 -4551 Feb 01 i 19:24 0°×7 evening set -4544 Jan 03 j 10:29 24°×33'57 -4551 Apr 11 j 06:49 1°**х** 45′50 retrograde conjunction -4551 Jun 23 i 00:07 30°RML -4544 Jan 19 j 12:00 25° **2** 28'18 -0°35'56 min. Earth dist. -4551 Jun 27 j 08:45 29°ML49'34 19.05993 AU minimum elong -4544 Jan 19 i 12:00 25°**x**⁷28'18 0°36'09 max. Earth dist. -4551 Jun 28 j 14:12 29°M46'37 -0°18'45 -4544 Jan 20 j 13:32 25° ₹31'55 21.10500 AU opposition direct -4551 Sep 12 j 01:29 27°M50'47 morning rise -4544 Feb 04 j 17:58 26°**х** 23′14 -4544 May 09 j 12:49 -4551 Nov 25 j 05:51 0°**∡**¹ retrograde 29°×30'01 -4551 Dec 10 j 06:12 0°**х**⁴48'38 opposition -4544 Jul 26 j 13:27 27°**₹**30'24 -0°41'04 evening set min. Earth dist. -4544 Jul 25 j 14:35 27°**✗**32'43 19.10096 AU -4551 Dec 26 j 02:08 1° ₹42'39 -0°18'35 -4544 Oct 09 j 10:40 25°**х** 34'17 conjunction direct -4551 Dec 26 j 02:08 1°**х** 42'39 0°18'46 -4543 Jan 06 j 15:49 28°**₹**31'06 minimum elong evening set -4551 Dec 27 j 08:25 1°**尽**47'00 21.07099 AU max. Earth dist. -4550 Jan 11 j 02:09 2°×37'14 -4543 Jan 22 j 18:31 morning rise conjunction 29°**х** 25'34 -0°38'17 retrograde -4550 Apr 15 j 14:51 5°**х** 44′29 minimum elong -4543 Jan 22 j 18:31 29°×25'34 0°38'30 opposition -4550 Jul 02 j 22:08 3°**х** 45′17 -0°22′21 max. Earth dist. -4543 Jan 23 j 20:06 29°**₹**29'12 21.09502 AU min. Earth dist. -4550 Jul 01 j 17:46 3°**∡**48'07 19.08161 AU -4543 Feb 01 j 21:35 0°ಕ direct -4550 Sep 16 j 06:37 1°**₹**49'31 morning rise -4543 Feb 08 j 01:18 0°る20'37 -4550 Dec 14 j 10:42 4°**х** 47′01 -4543 May 13 j 21:11 3°る27'28 evening set retrograde

-4543 Jul 30 j 19:04

opposition

1°る27'47 -0°43'34

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Attention, astronomical year style is used: The year -4543 in astronomical counting style is the year 4544 BCE in historical counting style.								
min. Earth dist.	-4543 Jul 29 j 20:38	1°る30'03 1		minimum elong	-4536 Feb 21 j 05:18	27° る 23'58	0°49'29	
	-4543 Sep 09 j 16:32	30°R ∕ 7		max. Earth dist.	-4536 Feb 21 j 17:38		20.90786 AU	
direct	-4543 Oct 13 j 16:01	29° ₹ 31'34		morning rise	-4536 Mar 08 j 18:48	28° る 20'12		
	-4543 Nov 15 j 23:38	0° ਰ			-4536 Apr 10 j 12:49	0° ≈		
evening set	-4542 Jan 10 j 21:34	2° る 28'34		retrograde	-4536 Jun 11 j 14:08	1° ≈ 28'41		
					-4536 Aug 14 j 15:24	30°Rる		
conjunction	-4542 Jan 27 j 01:05	3° る 23'09 -0	0°40'28	opposition	-4536 Aug 27 j 11:57	29° る 28'36	-0°54'55	
minimum elong	-4542 Jan 27 j 01:05	3° පි 23'09 (min. Earth dist.	-4536 Aug 27 j 01:58		18.88570 AU	
max. Earth dist.	-4542 Jan 28 j 00:24	3° る 26'27 2		direct	-4536 Nov 10 j 00:20	27° ට 31'04	10.00370710	
morning rise	-4542 Feb 12 j 09:01	4°る18'20	21.00111710	uncet	-4535 Jan 29 j 14:24	0°≈		
retrograde	-4542 May 18 j 05:19	7°る25'18		evening set	-4535 Feb 08 j 05:29	0°≈31'33		
min. Earth dist.	-4542 Aug 03 j 04:10	7 3 23 16 5° る 27'40 1	9.07316 ATT	evening set	-43331 co ooj o3.27	0 ~31 33		
opposition	-4542 Aug 04 j 00:45	5°る25'34 -0		conjunction	-4535 Feb 24 j 16:23	1° ≈ 27'29	0°40'57	
direct	-4542 Oct 17 j 19:07	3°る29'14	0 43 33	minimum elong	-4535 Feb 24 j 16:23	1°≈27'29		
evening set	-4541 Jan 15 j 03:39	6°る26'30		max. Earth dist.	-4535 Feb 25 j 03:26		20.86193 AU	
evening set	-4341 Jan 13 J 03.39	0 02030		morning rise	-4535 Mar 13 j 06:34	2°≈23'55	20.80193 AU	
conjunction	-4541 Jan 31 j 08:22	7° る 21'14 -0	0012120	retrograde	-4535 Jun 16 j 01:40	2 ≈23 33 5°≈32'43		
minimum elong	3	7° る 21'14 -0		•	3		0055121	
J	-4541 Jan 31 j 08:22 -4541 Feb 01 j 07:30			opposition min. Earth dist.	-4535 Aug 31 j 18:25	3°≈32'30		
max. Earth dist.	3	7° る 24'31 2	1.00338 AU		-4535 Aug 31 j 09:38		18.83735 AU	
morning rise	-4541 Feb 16 j 17:06	8° ろ 16'33		direct	-4535 Nov 14 j 07:42	1°≈34'39		
retrograde	-4541 May 22 j 14:13	11° る 23'41	0.05227 ATT	evening set	-4534 Feb 12 j 16:01	4° ≈ 35'52		
min. Earth dist.	-4541 Aug 07 j 10:18	9° ට 25'57 1			452434 01:02.42	50 22102	0050101	
opposition	-4541 Aug 08 j 06:16	9° ට 23'56 -0	0°47′59	conjunction	-4534 Mar 01 j 03:43	5°≈32'03		
direct	-4541 Oct 21 j 23:56	7° る 27'28		minimum elong	-4534 Mar 01 j 03:43	5°≈32'03		
evening set	-4540 Jan 19 j 10:24	10° る 25'06		max. Earth dist.	-4534 Mar 01 j 11:28		20.81148 AU	
				morning rise	-4534 Mar 17 j 18:50	6° ≈ 28'42		
conjunction	-4540 Feb 04 j 16:01	11° る 19'59 -0		retrograde	-4534 Jun 20 j 11:05	9° ≈ 37'53		
minimum elong	-4540 Feb 04 j 16:01	11° る 19'59 (opposition	-4534 Sep 05 j 01:14	7° ≈ 37'29		
max. Earth dist.	-4540 Feb 05 j 12:31	11° ප් 22'54 2	21.04162 AU	min. Earth dist.	-4534 Sep 04 j 19:19		18.78494 AU	
morning rise	-4540 Feb 21 j 01:55	12° ろ 15'28		direct	-4534 Nov 18 j 13:08	5° ≈ 39'16		
retrograde	-4540 May 25 j 23:21	15° る 22'49		evening set	-4533 Feb 17 j 03:11	8° ≈ 41'18		
opposition	-4540 Aug 11 j 12:00	13° る 23'01 -0						
min. Earth dist.	-4540 Aug 10 j 18:19	13° る 24'49 1	9.02947 AU	conjunction	-4533 Mar 05 j 16:01	9° ≈ 37'44	-0°50'30	
direct	-4540 Oct 25 j 03:48	11° る 26'24		minimum elong	-4533 Mar 05 j 16:01	9° ≈ 37'44	0°50'42	
evening set	-4539 Jan 22 j 17:42	14° る 24'28		max. Earth dist.	-4533 Mar 05 j 22:35		20.75733 AU	
				morning rise	-4533 Mar 22 j 07:45	10° ≈ 34'36		
conjunction	-4539 Feb 08 j 00:29	15° る 19'33 -0	0°45'52	retrograde	-4533 Jun 24 j 23:33	13° ≈ 44'10		
minimum elong	-4539 Feb 08 j 00:29	15° る 19'33 (0°46'05	opposition	-4533 Sep 09 j 08:05	11° ≈ 43'37	-0°55'53	
max. Earth dist.	-4539 Feb 08 j 20:21	15° る 22'22 2	21.01549 AU	min. Earth dist.	-4533 Sep 09 j 03:15	11° ≈ 44'07	18.72911 AU	
morning rise	-4539 Feb 24 j 11:08	16° る 15'12		direct	-4533 Nov 22 j 21:34	9° ≈ 45'00		
retrograde	-4539 May 30 j 08:44	19° る 22'46		evening set	-4532 Feb 21 j 15:16	12° ≈ 47'55		
opposition	-4539 Aug 15 j 17:34	17° る 22'57 -0						
min. Earth dist.	-4539 Aug 15 j 00:52	17° る 24'39 1	9.00096 AU	conjunction	-4532 Mar 09 j 04:53	13° ≈ 44'37	-0°50'24	
direct	-4539 Oct 29 j 08:47	15° る 26'11		minimum elong	-4532 Mar 09 j 04:53	13° ≈ 44'37	0°50'34	
evening set	-4538 Jan 27 j 01:45	18° る 24'46		max. Earth dist.	-4532 Mar 09 j 08:13	13° ≈ 45′06	20.70007 AU	
				morning rise	-4532 Mar 25 j 21:27	14° ≈ 41'44		
conjunction	-4538 Feb 12 j 09:23	19° る 20'02 -0	0°47'14		-4532 Mar 31 j 09:06	15° ≈		
minimum elong	-4538 Feb 12 j 09:23	19° る 20'02 (0°47'27	retrograde	-4532 Jun 28 j 09:36	17° ≈ 51'42		
max. Earth dist.	-4538 Feb 13 j 02:10	19° る 22'25 2	0.98465 AU	opposition	-4532 Sep 12 j 15:28	15° ≈ 50'59	-0°55'38	
morning rise	-4538 Feb 28 j 21:06	20° る 15'51		min. Earth dist.	-4532 Sep 12 j 13:27	15° ≈ 51'12	18.67059 AU	
retrograde	-4538 Jun 03 j 18:18	23° る 23'43			-4532 Oct 03 j 15:15	15° Ŗ ≈		
opposition	-4538 Aug 19 j 23:34	21° පි 23'50 -0	0°52'54	direct	-4532 Nov 26 j 03:50	13° ≈ 51'59		
min. Earth dist.	-4538 Aug 19 j 09:29	21° ට 25'17 1	8.96769 AU		-4531 Jan 17 j 10:20	15° ≈		
direct	-4538 Nov 02 j 13:13	19° る 26'52		evening set	-4531 Feb 25 j 03:55	16° ≈ 55'51		
evening set	-4537 Jan 31 j 10:09	22° පි 26'01						
	-			conjunction	-4531 Mar 13 j 18:33	17° ≈ 52'49	-0°50'02	
conjunction	-4537 Feb 16 j 19:01	23° පි 21'30 -0	0°48'23	minimum elong	-4531 Mar 13 j 18:33	17° ≈ 52'49	0°50'11	
minimum elong	-4537 Feb 16 j 19:00	23° පි 21'30 (0°48'35	max. Earth dist.	-4531 Mar 13 j 20:40	17° ≈ 53'07	20.64041 AU	
max. Earth dist.	-4537 Feb 17 j 10:46	23°る23'44 2	0.94886 AU	morning rise	-4531 Mar 30 j 11:36	18° ≈ 50'11		
morning rise	-4537 Mar 05 j 07:29	24° ප 17'31		retrograde	-4531 Jul 02 j 22:40	22° ≈ 00'36		
retrograde	-4537 Jun 08 j 04:41	27° る 25'41		opposition	-4531 Sep 16 j 23:02	19° ≈ 59'44	-0°55'06	
opposition	-4537 Aug 24 j 05:39	25° පි 25'43 -0	0°54'03	min. Earth dist.	-4531 Sep 16 j 21:54		18.60989 AU	
min. Earth dist.	-4537 Aug 23 j 16:44	25° පි 27'02 1		direct	-4531 Nov 30 j 13:22	18° ≈ 00′21		
direct	-4537 Nov 06 j 19:23	23° る 28'30		evening set	-4530 Mar 01 j 17:30	21° ≈ 05'13		
evening set	-4536 Feb 04 j 19:35	26° පි 28'17		-	ž			
ū	Ÿ			conjunction	-4530 Mar 18 j 08:49	22° ≈ 02'29	-0°49'24	
conjunction	-4536 Feb 21 j 05:18	27° පි 23'58 -0	0°49'17	minimum elong	-4530 Mar 18 j 08:49	22° ≈ 02'29		
	ž			-	-			

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4530 in astronomical counting style is the year 4531 BCE in historical counting style. -4530 Mar 18 i 07:54 22°≈02'21 20.57888 AU min. Earth dist. -4524 Oct 16 i 10:08 19°**)** 48'45 18.15355 AU max. Earth dist. -4530 Apr 04 j 02:34 23°≈00'05 direct -4524 Dec 29 j 17:00 17°**¥**48'13 morning rise -4523 Apr 01 j 18:11 -4530 Jul 07 j 09:44 21°**)**(01'40 retrograde 26°≈11'00 evening set -4530 Sep 21 j 07:15 24°≈09'59 -0°54'16 opposition -4530 Sep 21 j 08:50 22°\cdot\01'01 -0°37'39 min. Earth dist. 24°≈09'49 18.54771 AU conjunction -4523 Apr 18 j 13:50 22°**升**01'01 0°37'42 -4530 Dec 04 j 20:43 -4523 Apr 18 j 13:50 direct 22°≈10'13 minimum elong -4529 Mar 06 j 07:41 -4523 Apr 17 j 21:09 evening set 25°≈16'10 max. Earth dist. 21°**₭**58'33 20.11900 AU -4523 May 05 j 09:34 morning rise 23°**₩**00′25 conjunction -4529 Mar 22 j 23:58 26°≈13'43 -0°48'31 retrograde -4523 Aug 06 j 20:18 26°**)** 15′18 24°**)** 13'45 -0°40'20 minimum elong -4529 Mar 22 j 23:58 26°≈13'43 0°48'38 opposition -4523 Oct 20 j 09:45 24°**升**12'14 18.08425 AU max. Earth dist. -4529 Mar 22 j 21:44 26°≈13'24 20.51613 AU min. Earth dist. -4523 Oct 20 j 23:56 -4529 Apr 08 j 18:10 morning rise 27°≈11'35 direct -4522 Jan 03 j 08:36 22°**)** 11'24 -4522 Apr 06 j 15:17 -4529 Jun 11 j 18:24 0°**)**€ evening set 25°**∺**26′10 retrograde -4529 Jul 11 j 23:51 0°¥23'00 -4529 Aug 11 j 08:18 30°R≈ conjunction -4522 Apr 23 j 11:14 26°**)** 25'48 -0°34'57 opposition -4529 Sep 25 j 15:52 28°≈21'54 -0°53'09 minimum elong -4522 Apr 23 j 11:14 26°\ 25'48 0°34'58 min. Earth dist. -4529 Sep 25 j 18:14 28°≈21'39 18.48432 AU max. Earth dist. -4522 Apr 22 j 16:11 26°**升**22'58 20.04928 AU direct -4529 Dec 09 j 07:18 26°≈21'46 morning rise -4522 May 10 j 06:52 27°**)**€25'26 evening set -4528 Mar 09 j 23:06 29°≈28'51 -4522 Jul 02 j 21:39 $0^{\circ}\Upsilon$ -4528 Mar 19 j 00:14 0°**)**€ retrograde -4522 Aug 11 j 12:48 0°Y40'52 -4522 Sep 20 j 17:18 30°R **₩** conjunction -4528 Mar 26 j 16:01 0°\(\frac{1}{26}\)'42 -0°47'21 opposition -4522 Oct 24 i 23:22 28°\(\)\(39'13\)\(-0^\)37'14 minimum elong -4528 Mar 26 j 16:01 0°\(\frac{1}{26}\)'42 0°47'29 min. Earth dist. -4522 Oct 25 i 16:23 28° ¥ 37'23 18.01438 AU max. Earth dist. -4528 Mar 26 j 10:47 0°**升**25'57 20.45223 AU direct -4521 Jan 07 j 22:47 26°\ 36'25 morning rise -4528 Apr 12 j 10:44 1°**)** 24'50 evening set -4521 Apr 11 j 13:12 29° ¥ 52'29 -4528 Jul 15 j 12:15 4°**)** 36'47 -4521 Apr 13 j 16:39 $0^{\circ}\Upsilon$ retrograde opposition -4528 Sep 29 j 01:07 2°\(\frac{1}{35}\)'35'35 -0°51'44 max. Earth dist. -4521 Apr 27 j 11:53 0°**Υ**49'12 19.97944 AU -4528 Sep 29 j 06:19 2°**升**35'02 18.42002 AU min. Earth dist. -4528 Dec 12 j 16:21 -4521 Apr 28 j 09:22 0° Y 52'24 -0° 32'02 0°**)**35′06 conjunction direct -4527 Mar 14 j 15:17 3°**)** 43′24 minimum elong -4521 Apr 28 j 09:22 0°Y52'24 0°32'03 evening set -4521 May 15 j 04:59 1°Y52'17 morning rise -4527 Mar 31 j 09:00 4°\(\)41'33 -0°45'56 -4521 Aug 16 j 08:18 5°**Y**08'16 conjunction retrograde -4521 Oct 29 j 13:36 3°Y06'28 -0°33'53 -4527 Mar 31 j 09:00 4°\dagger41'33 0°46'02 opposition minimum elong -4527 Mar 31 j 02:13 4°**¥**40'34 20.38759 AU min. Earth dist. -4521 Oct 30 j 07:34 3°**Y**04'31 17.94463 AU max. Earth dist. -4527 Apr 17 j 04:02 5°**)**39'56 -4520 Jan 12 j 16:02 1°Y03'13 morning rise direct -4527 Jul 20 j 03:34 8°**升**52′28 -4520 Apr 15 j 11:59 4°Υ20'36 retrograde evening set -4527 Oct 03 j 10:57 6°**¥**51'13 -0°50'02 -4520 May 01 j 09:10 5°**Y**17'19 19.90990 AU opposition max. Earth dist. min. Earth dist. -4527 Oct 03 j 17:00 6°**¥**50'34 18.35490 AU -4520 May 02 j 08:19 direct -4527 Dec 17 j 04:00 4°**¥**50′23 conjunction 5°Y20'47 -0°28'54 -4526 Mar 19 j 08:25 7°**¥**59'55 minimum elong -4520 May 02 j 08:19 5°**Υ**20'47 0°28'53 evening set morning rise -4520 May 19 j 03:33 6°Y20'53 -4526 Apr 05 j 02:38 8°\;\;58'23 -0°44'15 retrograde -4520 Aug 20 j 02:05 9°Y37'23 conjunction -4526 Apr 05 j 02:39 8°**)** 58'23 0°44'21 -4520 Nov 02 j 04:41 7° Y 35'27 -0°30'18 minimum elong opposition -4526 Apr 04 j 17:05 8°¥56'59 20.32201 AU min. Earth dist. -4520 Nov 03 j 01:06 7°**Υ**33'14 17.87567 AU max. Earth dist. -4526 Apr 21 j 22:01 9°**)** 57'01 -4519 Jan 16 j 08:16 5°**Y**31'46 morning rise direct 13°**¥** 10′09 8°Y50'26 retrograde -4526 Jul 24 i 17:38 evening set -4519 Apr 20 j 11:31 -4526 Oct 07 j 21:39 11°\(\mathbf{H}\)08'50 -0°48'02 opposition max. Earth dist. -4519 May 06 i 06:20 9°**Υ**47'03 19.84176 AU min. Earth dist. -4526 Oct 08 i 06:38 11°\(\mathbf{H}\) 07'52 18.28890 AU 9°**)**€07'40 -4519 May 07 i 07:46 9°Y50'52 -0°25'34 direct -4526 Dec 21 i 14:58 conjunction evening set minimum elong -4525 Mar 24 j 02:39 12°**)** 18'29 -4519 May 07 i 07:46 9°Υ50'52 0°25'33 -4519 May 24 i 02:48 10°**Y**51'11 morning rise -4525 Apr 09 j 21:30 13°**¥**17'14 -0°42'18 -4519 Aug 24 j 22:10 14°Y08'13 conjunction retrograde -4525 Apr 09 j 21:30 -4519 Nov 06 j 20:27 12°Y06'08 -0°26'31 minimum elong 13°**)** 17'14 0°42'23 opposition -4519 Nov 07 j 17:31 12°**Υ**03'51 17.80851 AU max. Earth dist. -4525 Apr 09 j 09:59 13°**光**15'33 20.25555 AU min. Earth dist. -4518 Jan 21 j 02:55 10°**Y**′02′02 morning rise -4525 Apr 26 j 17:05 14°**¥**16′08 direct retrograde -4525 Jul 29 j 10:25 17°**)** 29'51 evening set -4518 Apr 25 j 11:32 13°Y21'58 -4525 Oct 12 j 08:47 opposition 15°**¥**28'29 -0°45'45 max. Earth dist. -4518 May 11 j 05:39 14°**Y**18'42 19.77563 AU -4525 Oct 12 j 18:53 15°**∺**27'24 18.22183 AU min. Earth dist. 13°**¥**26'57 -4518 May 12 j 07:49 14°Y22'40 -0°22'05 direct -4525 Dec 26 j 04:25 conjunction -4524 Mar 27 j 22:02 16°**¥**39′05 -4518 May 12 j 07:49 14°**Y**22'40 0°22'02 evening set minimum elong 15°**Y**23′09 morning rise -4518 May 29 j 02:18 18°**Y**40'42 conjunction -4524 Apr 13 j 17:18 17° **★**38'08 -0°40'06 retrograde -4518 Aug 29 j 17:18 minimum elong -4524 Apr 13 j 17:18 17°**)** 38′08 0°40'09 opposition -4518 Nov 11 j 13:08 16°**Y**38'31 -0°22'33 max. Earth dist. -4524 Apr 13 j 02:57 17° **∺**36′02 20.18780 AU min. Earth dist. -4518 Nov 12 j 12:06 16°**Y**36′01 17.74375 AU morning rise -4524 Apr 30 j 12:59 18°**)** 37′18 direct -4517 Jan 25 j 21:08 14°**Y**34'00 -4524 Aug 02 j 01:53 21°**)** 51'36 -4517 Apr 30 j 12:31 17°Y55'12 retrograde evening set -4524 Oct 15 j 20:59 19°**¥**50′09 -0°43′11 max. Earth dist. -4517 May 16 j 04:07 18°**Y**51'48 19.71242 AU opposition

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4517 in astronomical counting style is the year 4518 BCE in historical counting style. 18°**Y**′56′07 -0°18′25 -4517 May 17 j 08:28 -4512 Jul 29 i 13:04 15°8 conjunction -4517 May 17 j 08:28 18°**Y**56'07 0°18'21 -4512 Sep 26 j 03:20 16°830'35 minimum elong retrograde -4517 Jun 03 j 02:34 19°Y 56'48 -4512 Nov 26 j 05:29 15°R₩ morning rise -4517 Sep 03 j 13:59 -4512 Dec 08 j 10:06 23°Y14'51 opposition 14°**8**28'24 0°03'56 retrograde -4517 Nov 16 j 06:23 21° Y 12'34 -0° 18'24 min. Earth dist. -4512 Dec 09 j 12:53 14°**8**25'28 17.43848 AU opposition 12°**8**22'26 21°Υ10'01 17.68228 AU -4511 Feb 22 j 09:35 min. Earth dist. -4517 Nov 17 j 05:51 direct 19°**℃**07'41 15°8 direct -4516 Jan 30 j 17:12 -4511 May 14 j 23:45 22°Y30'08 -4511 May 29 j 06:44 evening set -4516 May 04 j 14:05 evening set 15°**8**50'28 max. Earth dist. -4516 May 20 j 05:26 23°**Y**26'56 19.65268 AU 0°05'41 conjunction -4511 Jun 14 j 23:09 16°**8**52'17 -4511 Jun 14 j 23:10 conjunction -4516 May 21 j 09:51 23°**Y**31'16 -0°14'38 minimum elong 16°**8**52'17 0°05'50 -4516 May 21 j 09:51 -4511 Jun 14 j 16:42 16°**8**51'19 minimum elong 23°Y31'16 0°14'34 behind sun begin -4516 May 21 j 07:11 -4511 Jun 15 j 05:37 16°**8**53'16 behind sun begin 23°**Y**30'52 behind sun end behind sun end -4516 May 21 j 12:31 23° Y 31'40 max. Earth dist. -4511 Jun 13 j 14:48 16°**8**47'15 19.41976 AU morning rise -4516 Jun 07 j 03:08 24° Y 32'06 morning rise -4511 Jul 01 j 12:04 17°**8**53'38 retrograde -4516 Sep 07 j 10:44 27°Y50'39 retrograde -4511 Oct 01 j 02:02 21°814'28 opposition -4516 Nov 20 j 00:46 25° Y 48'20 -0° 14'07 opposition -4511 Dec 13 j 08:34 19°**8**12'19 0°08'32 min. Earth dist. -4516 Nov 21 j 01:28 25°**Y**45'38 17.62458 AU min. Earth dist. -4511 Dec 14 j 12:04 19°**8**09'19 17.40287 AU direct -4515 Feb 03 j 13:29 23°Y43'08 direct -4510 Feb 27 j 10:26 17°806'13 evening set -4515 May 09 j 16:14 27°**Y**06'48 evening set -4510 Jun 03 j 11:16 20°**8**35'07 max. Earth dist. -4515 May 25 j 05:05 28°**Υ**03'27 19.59714 AU max. Earth dist. -4510 Jun 18 j 19:12 21°832'04 19.38613 AU conjunction -4515 May 26 j 11:24 28°Y08'06 -0°10'44 conjunction -4510 Jun 20 i 02:55 21°**8**37'01 0°09'46 minimum elong -4515 May 26 j 11:24 28°Y08'06 0°10'39 minimum elong -4510 Jun 20 i 02:54 21°837'01 0°09'57 behind sun begin -4515 May 26 j 06:13 28° **Y**07'20 behind sun begin -4510 Jun 19 j 21:28 21°**8**36'11 -4515 May 26 j 16:34 28°Y08'53 -4510 Jun 20 j 08:20 21°**8**37'50 behind sun end behind sun end -4515 Jun 12 j 04:07 29° Y 09' 05 -4510 Jul 06 j 14:39 22°838'23 morning rise morning rise -4515 Jun 26 j 18:52 -4510 Oct 06 j 02:34 25°**8**59'32 0°8 retrograde -4515 Sep 12 j 07:56 -4510 Dec 18 j 07:47 retrograde 2°828'09 opposition 23°**8**57'28 0°13'06 0°825'48 -0°09'43 -4515 Nov 24 j 19:49 -4510 Dec 19 j 11:03 23°**8**54'29 17.37120 AU min. Earth dist. opposition -4515 Nov 25 j 20:52 -4509 Mar 04 j 13:13 21°**8**51'14 min. Earth dist. 0°**8**23'04 17.57134 AU direct -4515 Dec 04 j 17:47 -4509 Jun 08 j 16:17 30°**₹**Υ evening set 25°**8**20'53 -4509 Jun 23 j 22:13 28°**Y**20'21 direct -4514 Feb 08 j 10:53 max. Earth dist. 26°**8**17'42 19.35648 AU -4514 Apr 12 j 22:33 0° 8 -4514 May 14 j 18:56 -4509 Jun 25 j 06:49 26°**8**22'49 0°13'49 evening set 1°**8**45'11 conjunction -4514 May 30 j 07:55 2°**8**42'05 19.54610 AU -4509 Jun 25 j 06:48 26°**8**22'49 max. Earth dist. minimum elong 0°14'00 -4509 Jun 25 j 03:31 26°**8**22'18 behind sun begin conjunction -4514 May 31 j 13:45 2°846'40 -0°06'46 behind sun end -4509 Jun 25 j 10:05 26°**8**23'19 -4514 May 31 j 13:45 2°846'40 0°06'39 morning rise -4509 Jul 11 j 17:23 27°**8**24'11 minimum elong behind sun begin -4514 May 31 j 07:25 2°845'43 -4509 Aug 31 j 12:45 $\Pi^{\circ}0$ behind sun end -4514 May 31 j 20:04 2°847'37 retrograde -4509 Oct 11 j 02:09 0°**I**I45'36 -4514 Jun 17 j 05:30 3°**8**47'46 -4509 Nov 21 j 18:00 30°R₩ morning rise -4514 Sep 17 j 06:08 7°**8**07'19 opposition -4509 Dec 23 j 07:41 28°843'34 0°17'35 retrograde -4514 Nov 29 j 15:40 5°805'00 -0°05'14 min. Earth dist. -4509 Dec 24 j 11:43 28°840'31 17.34378 AU opposition -4514 Nov 30 j 17:31 5°**と**02'10 17.52257 AU direct -4508 Mar 08 j 14:58 26°**8**37'12 min. Earth dist. direct -4513 Feb 13 i 09:19 2°859'21 -4508 Jun 10 j 19:58 $0^{\circ}II$ evening set -4513 May 19 j 22:27 6°825'19 evening set -4508 Jun 12 j 21:17 0°**I**07'31 7°**と**22'04 19.49964 AU 1°**Д**04'26 19.33123 AU max. Earth dist. -4513 Jun 04 j 08:52 max. Earth dist. -4508 Jun 28 j 02:53 -4513 Jun 05 j 16:28 7°826'57 -0°02'42 conjunction -4508 Jun 29 j 10:45 1°**I**109'26 0°17'47 conjunction -4513 Jun 05 i 16:29 7°**8**26'57 0°02'35 -4508 Jun 29 i 10:45 1°**Ⅱ**09'26 0°17'58 minimum elong minimum elong -4513 Jun 05 j 09:43 7°**8**25'56 -4508 Jul 15 j 20:06 2°**Ⅱ**10'47 behind sun begin morning rise -4513 Jun 05 j 23:14 7°**8**27'58 -4508 Oct 15 j 03:34 5°**Ⅲ**32'25 behind sun end retrograde 3°**Д**30'24 0°21'58 morning rise -4513 Jun 22 j 07:30 8°828'09 opposition -4508 Dec 27 j 08:14 -4513 Sep 22 j 03:59 retrograde 11°**8**48'10 min. Earth dist. -4508 Dec 28 j 11:18 3°**П**27'27 17.32072 AU opposition -4513 Dec 04 j 12:26 9°845'54 -0°00'40 direct -4507 Mar 13 j 18:49 1°**Ⅲ**23'56 min. Earth dist. -4513 Dec 05 j 14:53 9°**8**43'01 17.47842 AU evening set -4507 Jun 18 j 02:06 4°**I**54'44 7°**8**53'24 -4512 Jan 26 j 19:34 max. Earth dist. -4507 Jul 03 j 06:45 5°**I**51'39 19.31051 AU asc. node 7°840'04 direct -4512 Feb 18 j 08:39 -4512 May 24 j 02:17 11°807'08 -4507 Jul 04 j 14:25 5°**I**56'38 0°21'39 evening set conjunction -4507 Jul 04 j 14:24 0°21'51 minimum elong 5°**Ⅱ**56'38 conjunction -4512 Jun 09 j 19:41 12°**8**08'52 0°01'32 morning rise -4507 Jul 20 j 22:28 6°**Ⅲ**57'57 minimum elong -4512 Jun 09 j 19:42 12°**8**08'52 0°01'41 retrograde -4507 Oct 20 j 03:20 10°**Ⅲ**19'43 behind sun begin -4512 Jun 09 j 12:56 12°**8**07'51 opposition -4506 Jan 01 j 09:21 8°**Ⅲ**17'43 0°26'11 behind sun end -4512 Jun 10 j 02:28 12°**8**09'53 min. Earth dist. -4506 Jan 02 j 12:57 8°**I**14'43 17.30254 AU -4512 Jun 08 j 12:46 12°**8**04'04 19.45759 AU -4506 Mar 18 j 20:51 6°**Ⅱ**11'09 max. Earth dist. direct

-4512 Jun 26 j 09:35

morning rise

13°**8**10'09

-4506 Jun 23 j 06:53

evening set

9°**Ⅱ**42'21

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 33

-	vicel year style is used: Th		_	\ //	r 4507 BCE in historical c	· .	age 33
max. Earth dist.	-4506 Jul 08 j 11:04	•		opposition	-4499 Feb 04 j 01:57	11° © 46'10	0°40'11
max. Earm dist.	-4300 Jul 08 J 11.04	10 Д39 18	19.29492 AU	min. Earth dist.	-4499 Feb 04 j 01.37		17.34148 AU
· · · · · · · · · · · ·	4506 I1 00: 17.50	10° ∏ 44'11	0°25'21		3	9°9540'09	17.34148 AU
conjunction	-4506 Jul 09 j 17:58			direct	-4499 Apr 22 j 05:36		
minimum elong	-4506 Jul 09 j 17:58	10° ∏ 44'11	0°25'33	evening set	-4499 Jul 27 j 04:36	13° © 10'38	
morning rise	-4506 Jul 26 j 00:50	11° Ⅱ 45'25			1100 1 10:06 27		0045105
retrograde	-4506 Oct 25 j 04:54	15° Ⅱ 07'17		conjunction	-4499 Aug 12 j 06:37	14°9511'20	
opposition	-4505 Jan 06 j 10:39	13° Ⅱ 05'16	0°30'14	minimum elong	-4499 Aug 12 j 06:37	14°9511'20	0°45'18
min. Earth dist.	-4505 Jan 07 j 12:44		17.28952 AU	max. Earth dist.	-4499 Aug 11 j 12:23		19.35557 AU
direct	-4505 Mar 24 j 01:55	10° Ⅱ 58'38		morning rise	-4499 Aug 28 j 04:31	15° © 11'27	
evening set	-4505 Jun 28 j 11:25	14° Ⅱ 30′05		retrograde	-4499 Nov 27 j 03:08	18° © 32'44	
		_		opposition	-4498 Feb 09 j 05:05	16° © 31'16	
conjunction	-4505 Jul 14 j 21:19	15° Ⅲ 31'50	0°28'53	min. Earth dist.	-4498 Feb 09 j 21:27	16° © 29'31	17.37154 AU
minimum elong	-4505 Jul 14 j 21:19	15° Ⅱ 31'50	0°29'06	direct	-4498 Apr 27 j 09:28	14° © 25'33	
max. Earth dist.	-4505 Jul 13 j 15:39		19.28464 AU	evening set	-4498 Aug 01 j 05:35	17° © 55'29	
morning rise	-4505 Jul 31 j 02:46	16° Ⅲ 32'58					
retrograde	-4505 Oct 30 j 04:03	19° Ⅱ 54'52		conjunction	-4498 Aug 17 j 06:08	18° © 55'56	0°46'47
opposition	-4504 Jan 11 j 12:39	17° Ⅱ 52'52		minimum elong	-4498 Aug 17 j 06:08	18° © 55'56	0°46'59
min. Earth dist.	-4504 Jan 12 j 14:53		17.28221 AU	max. Earth dist.	-4498 Aug 16 j 12:52	18° © 53'12	19.38819 AU
direct	-4504 Mar 28 j 04:50	15° Ⅱ 46'11		morning rise	-4498 Sep 02 j 03:03	19° © 55'50	
evening set	-4504 Jul 02 j 15:31	19° Ⅱ 17'45		retrograde	-4498 Dec 02 j 02:58	23° © 16'54	
				opposition	-4497 Feb 14 j 08:01	21° © 15'34	0°52'58
conjunction	-4504 Jul 18 j 24:00	20° Ⅱ 19'23	0°32'12	min. Earth dist.	-4497 Feb 14 j 22:14	21°5914'04	17.40653 AU
minimum elong	-4504 Jul 18 j 23:59	20° Ⅲ 19′23	0°32'26	direct	-4497 May 02 j 13:06	19° © 10'09	
max. Earth dist.	-4504 Jul 17 j 19:17	20° Ⅱ 14′50	19.28038 AU	evening set	-4497 Aug 06 j 05:42	22° © 39'27	
morning rise	-4504 Aug 04 j 04:15	21° Ⅱ 20′23					
retrograde	-4504 Nov 03 j 05:07	24° Ⅱ 42'17		conjunction	-4497 Aug 22 j 05:09	23° © 39'38	0°48'10
opposition	-4503 Jan 15 j 14:52	22° Ⅱ 40'17	0°37'40	minimum elong	-4497 Aug 22 j 05:09	23° © 39'38	0°48'23
min. Earth dist.	-4503 Jan 16 j 14:51	22° Ⅲ 37'41	17.28103 AU	max. Earth dist.	-4497 Aug 21 j 15:04	23° © 37'25	19.42538 AU
direct	-4503 Apr 02 j 10:53	20° Ⅲ 33'37		morning rise	-4497 Sep 07 j 00:52	24°939'18	
evening set	-4503 Jul 07 j 19:10	24° Ⅱ 05'11		retrograde	-4497 Dec 07 j 02:15	28°900'05	
max. Earth dist.	-4503 Jul 23 j 00:03	25° Ⅱ 02'30	19.28238 AU	opposition	-4496 Feb 19 j 11:08	25° © 58'55	0°54'19
	,			min. Earth dist.	-4496 Feb 19 j 23:35	25° © 57'36	17.44568 AU
conjunction	-4503 Jul 24 j 02:27	25° Ⅱ 06'40	0°35'19	direct	-4496 May 06 j 17:02	23° © 53'50	
minimum elong	-4503 Jul 24 j 02:26	25° Ⅱ 06'40	0°35'31	evening set	-4496 Aug 10 j 05:06	27° © 22'21	
morning rise	-4503 Aug 09 j 05:15	26° Ⅱ 07'32		<i>3</i>			
retrograde	-4503 Nov 08 j 03:54	29° Ⅱ 29'22		conjunction	-4496 Aug 26 j 03:12	28° © 22'16	0°49'13
opposition	-4502 Jan 20 j 17:21	27° II 27'25	0°41'00	minimum elong	-4496 Aug 26 j 03:12	28°522'16	0°49'24
min. Earth dist.	-4502 Jan 21 j 16:55		17.28637 AU	max. Earth dist.	-4496 Aug 25 j 14:19		19.46651 AU
direct	-4502 Apr 07 j 14:29	25° Ⅱ 20'49		morning rise	-4496 Sep 10 j 22:02	29° © 21'42	
evening set	-4502 Jul 12 j 22:26	28° I 52'16			-4496 Sep 21 j 11:49	0°N	
max. Earth dist.	-4502 Jul 28 j 02:46		19.29112 AU	retrograde	-4496 Dec 11 j 01:03	2° Ω 42'10	
man. Darur dibe.		-, -,,,,,	19.29112110	opposition	-4495 Feb 23 j 14:01	0° Ω 41'07	0°55'17
conjunction	-4502 Jul 29 j 04:15	29° ∏ 53'35	0°38'10	min. Earth dist.	-4495 Feb 24 i 00:31		17.48870 AU
minimum elong	-4502 Jul 29 j 04:15	29° П 53'35	0°38'24	mm. Lattii dist.	-4495 Mar 12 j 02:10	30°RS	17.40070710
minimum ciong	-4502 Jul 30 j 20:44	0°95	0 3024	direct	-4495 May 11 j 19:02	28°536'21	
morning rise	-4502 Aug 14 j 05:57	0°954'17		direct	-4495 Jul 08 j 12:48	0°Ω	
retrograde	-4502 Nov 13 j 04:41	4°9516'02		evening set	-4495 Aug 15 j 03:37	2° Ω 04'00	
opposition	-4501 Jan 25 j 20:00	2°9514'09	0°44'02	evening set	7775 Aug 13 J 03.37	2 0 CUT UU	
min. Earth dist.	-4501 Jan 26 j 17:01		17.29837 AU	conjunction	-4495 Aug 31 j 00:43	3° Ω 03'39	0°49'55
direct	-4501 Apr 12 j 20:42	0°907'40	11.27031 AU	minimum elong	-4495 Aug 31 j 00:43	3° Ω 03'39	0°50'06
evening set	-4501 Jul 18 j 01:05	3°938'55		max. Earth dist.	-4495 Aug 30 j 14:49		19.51122 AU
max. Earth dist.	-4501 Aug 02 j 07:13		19.30638 AU	morning rise	-4495 Sep 15 j 18:32	4° Ω 02'49	19.31122 AU
max. Earth dist.	-4301 Aug 02 J 07.13	4 3030 29	19.30038 AU	retrograde	-4495 Dec 16 j 00:10	7° Ω 22'55	
aaniumatian	4501 Aug 02 : 05:42	4°540'03	0°40'45	opposition	-4494 Feb 28 j 16:24	5° Ω 21'59	0°55'53
conjunction	-4501 Aug 03 j 05:43 -4501 Aug 03 j 05:42						
minimum elong		4°540'03	0°40'58	min. Earth dist.	-4494 Mar 01 j 00:43		17.53487 AU
morning rise	-4501 Aug 19 j 05:58	5°540'34		direct	-4494 May 16 j 22:49	3° Ω 17'33	
retrograde	-4501 Nov 18 j 03:24	9°502'12	0046147	evening set	-4494 Aug 20 j 01:23	6° Ω 44'14	
opposition	-4500 Jan 30 j 22:59	7°500'26	0°46'47		4404.6 04:21.12	70 0 4010 7	0050110
min. Earth dist.	-4500 Jan 31 j 19:06		17.31681 AU	conjunction	-4494 Sep 04 j 21:19	7° Ω 43'35	0°50'18
direct	-4500 Apr 17 j 00:31	4°954'10		minimum elong	-4494 Sep 04 j 21:19	7° Ω 43'35	0°50'29
evening set	-4500 Jul 22 j 03:18	8°\$25'05	10.00000	max. Earth dist.	-4494 Sep 04 j 12:51		19.55894 AU
max. Earth dist.	-4500 Aug 06 j 08:56	22'35فع	19.32806 AU	morning rise	-4494 Sep 20 j 14:23	8° Ω 42'30	
	4500	00	00.4010.1	retrograde	-4494 Dec 20 j 21:20	12° Ω 02'11	00.500.5
conjunction	-4500 Aug 07 j 06:26	9° © 26'00	0°43'04	opposition	-4493 Mar 05 j 18:37	10°Ω01'20	0°56'06
minimum elong	-4500 Aug 07 j 06:26	9° © 25'59	0°43'17	min. Earth dist.	-4493 Mar 06 j 01:18		17.58410 AU
morning rise	-4500 Aug 23 j 05:38	10° © 26'19		direct	-4493 May 21 j 23:45	7° Ω 57'13	
retrograde	-4500 Nov 22 j 04:07	13° © 47'48		evening set	-4493 Aug 24 j 22:00	11° Ω 22'50	

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4493 in astronomical counting style is the year 4494 BCE in historical counting style. -4493 Sep 09 i 17:01 12°Ω21'53 0°50'20 minimum elong -4487 Oct 05 i 19:28 9° m 31'36 0°44'12 conjunction -4493 Sep 09 j 17:01 12°Ω21'53 0°50'30 -4487 Oct 06 j 04:30 9° m 32'59 19.97422 AU minimum elong max. Earth dist. -4493 Sep 09 j 11:23 12°**Ω**21'01 19.60962 AU -4487 Oct 21 j 09:11 max. Earth dist. 10° m 28'43 morning rise -4493 Sep 25 j 09:15 -4486 Jan 21 j 09:45 13°**Ω**20′33 13° m 44'42 morning rise retrograde -4486 Apr 07 j 17:11 -4493 Oct 24 j 17:25 15°€ opposition 11° Mp 44'18 0°47'56 11° Mp 45'26 retrograde -4493 Dec 25 j 19:30 16°**Ω**39'46 min. Earth dist. -4486 Apr 07 j 06:14 18.00878 AU -4492 Mar 01 j 10:40 15°RΩ direct -4486 Jun 23 j 21:17 9° m 42'46 opposition -4492 Mar 09 j 20:20 14°**Ω**38'59 0°55'56 evening set -4486 Sep 24 j 18:42 12° m 59'33 min. Earth dist. -4492 Mar 10 j 00:13 14°**Ω**38'34 17.63604 AU direct -4492 May 26 j 03:21 12°**Ω**35'12 conjunction -4486 Oct 10 j 08:57 13° Mp 56'30 0°42'07 -4492 Aug 11 j 19:45 15°€ minimum elong -4486 Oct 10 j 08:57 13° Mp 56'30 0°42'11 -4486 Oct 10 j 20:50 evening set -4492 Aug 28 j 17:44 15°**Ω**59'40 max. Earth dist. 13°**m** 58'19 20.04373 AU morning rise -4486 Oct 25 j 22:28 14° m 53'22 conjunction -4492 Sep 13 j 11:46 16°Ω58'25 0°50'03 retrograde -4485 Jan 26 j 01:17 18° Mp 08'48 minimum elong -4492 Sep 13 j 11:46 16°**Ω**58'25 0°50'13 opposition -4485 Apr 12 j 14:24 16° Mp 08'33 0°45'34 max. Earth dist. -4492 Sep 13 j 08:10 16°**Ω**57'51 19.66304 AU min. Earth dist. -4485 Apr 12 j 02:15 16° Mp 09'47 18.07895 AU morning rise -4492 Sep 29 j 03:25 17°**Ω**56'49 direct -4485 Jun 28 j 15:28 14° Mp 07'28 retrograde -4492 Dec 29 j 14:46 21°**Ω**15'33 evening set -4485 Sep 29 j 07:38 17° m/22'54 opposition -4491 Mar 14 j 21:30 19°**Ω**14'47 0°55'25 min. Earth dist. -4491 Mar 14 j 23:52 19°**Ω**14'32 17.69098 AU conjunction -4485 Oct 14 j 21:27 18° mp 19'35 0°39'53 direct -4491 May 31 j 03:08 17°**Ω**11'18 minimum elong -4485 Oct 14 j 21:27 18° mp 19'35 0°39'57 evening set -4491 Sep 02 i 12:17 20°**Ω**34'34 max. Earth dist. -4485 Oct 15 i 10:58 18° m 21'39 20.11440 AU morning rise -4485 Oct 30 j 11:01 19° m 16'13 conjunction -4491 Sep 18 i 05:32 21°Ω33'01 0°49'26 retrograde -4484 Jan 30 i 18:34 22° m 31'07 -4491 Sep 18 j 05:32 21°Ω33'01 0°49'35 opposition -4484 Apr 16 j 10:46 20° m 30'59 0°42'57 minimum elong -4491 Sep 18 j 04:37 21°**Ω**32'52 19.71947 AU -4484 Apr 15 j 19:30 20° m 32'32 18.14983 AU max. Earth dist. min. Earth dist. -4491 Oct 03 j 20:37 22°**Ω**31'09 -4484 Jul 02 j 10:44 direct 18° m 30'21 morning rise -4490 Jan 03 j 11:04 evening set -4484 Oct 02 j 19:51 21° m 44'29 25°**Ω**49'21 retrograde -4490 Mar 19 j 21:57 23°Ω48'37 0°54'33 opposition -4490 Mar 19 j 21:02 -4484 Oct 18 j 09:30 22° m 40'54 0°37'26 min. Earth dist. 23°**Ω**48'43 17.74875 AU conjunction -4490 Jun 05 j 05:41 21°**Ω**45′29 -4484 Oct 18 j 09:30 22° m 40'54 0°37'29 direct minimum elong -4490 Sep 07 j 05:54 25°**Ω**07′29 max. Earth dist. -4484 Oct 19 j 01:43 22° m 43'21 20.18526 AU evening set -4484 Nov 02 j 23:02 23° m 37'19 morning rise -4490 Sep 22 j 22:20 26° **Ω**05'37 0°48'32 -4483 Feb 03 j 08:56 conjunction retrograde 26° m 51'38 -4483 Apr 21 j 06:23 24° m 51'38 0°40'06 minimum elong -4490 Sep 22 j 22:20 26°**Ω**05'37 0°48'40 opposition 24° m 53'16 18.22059 AU -4490 Sep 22 j 23:57 max. Earth dist. 26°**Ω**05'52 19.77871 AU min. Earth dist. -4483 Apr 20 j 14:18 -4490 Oct 08 j 12:54 morning rise 27°**Ω**03′29 direct -4483 Jul 07 j 03:17 22° m 51'27 -4490 Dec 11 j 02:23 0° m evening set -4483 Oct 07 j 07:21 26° Mp 04'16 -4489 Jan 08 j 04:32 0°m21'09 retrograde -4489 Feb 05 j 23:53 30°R€ conjunction -4483 Oct 22 j 20:44 27° m 00'25 0°34'48 -4489 Mar 24 j 21:52 28°Ω20'28 0°53'22 minimum elong -4483 Oct 22 j 20:45 27° m 00'25 0°34'49 opposition -4489 Mar 24 j 19:23 28°**Ω**20'43 17.80960 AU max. Earth dist. -4483 Oct 23 j 13:57 27° m 03'01 20.25568 AU min. Earth dist. -4489 Jun 10 j 03:54 26°Ω17'41 -4483 Nov 07 j 10:30 27° m 56'37 direct morning rise -4489 Sep 11 j 22:32 29°**Ω**38'24 -4483 Dec 16 j 21:34 0∘**ত** evening set -4489 Sep 17 j 20:13 -4482 Feb 08 j 01:18 1°**2**10′24 0° M retrograde -4482 Apr 05 i 02:45 30°R M conjunction -4489 Sep 27 i 14:16 0° m 36'13 $0^{\circ}47'20$ min. Earth dist. -4482 Apr 25 i 06:30 29° m 12'23 18.29048 AU minimum elong -4489 Sep 27 i 14:16 0° m 36'13 $0^{\circ}47'27$ opposition -4482 Apr 26 j 01:11 29° m 10'30 0°37'02 max. Earth dist. -4489 Sep 27 i 18:23 0° m 36'52 19.84115 AU direct -4482 Jul 11 i 20:55 27° m 10'43 -4489 Oct 13 i 04:28 1° m 33'50 -4482 Oct 05 j 08:59 0∘**⊽** morning rise -4488 Jan 12 j 23:31 4° m 50'56 -4482 Oct 11 j 18:00 0°**£**22'15 retrograde evening set 2° m 50'19 0°51'51 opposition -4488 Mar 28 j 21:03 2° Mp 50'57 17.87346 AU -4482 Oct 27 j 07:22 1°**2**18'10 0°31'58 min. Earth dist. -4488 Mar 28 j 14:56 conjunction 0°31'58 direct -4488 Jun 14 j 03:52 0° **M** 47'56minimum elong -4482 Oct 27 j 07:22 1°**♀**18′10 -4488 Sep 15 j 14:05 4° m 07'20 max. Earth dist. -4482 Oct 28 j 03:02 1°**£**21'08 20.32473 AU evening set -4482 Nov 11 j 21:11 2°**£**14'10 morning rise 5° Mp 04'52 0°45'51 conjunction -4488 Oct 01 j 05:15 -4481 Feb 12 j 14:29 5°**£**27'23 retrograde -4488 Oct 01 j 05:15 5° m 04'52 0°45'57 -4481 Apr 30 j 19:24 3°**£**27'35 minimum elong opposition 0°33'47 -4488 Oct 01 j 12:15 -4481 Apr 30 j 00:03 3°**2**29'32 18.35869 AU max. Earth dist. 5° Mp 05'57 19.90641 AU min. Earth dist. -4481 Jul 16 j 12:12 morning rise -4488 Oct 16 j 19:07 6° Mp 02'13 direct 1°**£**28′12 retrograde -4487 Jan 16 j 15:52 9° m 18'47 evening set -4481 Oct 16 j 04:05 4°**£**38'27 -4487 Apr 02 j 19:38 7° m 18'15 0° 50'02 opposition min. Earth dist. -4487 Apr 02 j 12:04 7° **m** 19'02 17.94006 AU conjunction -4481 Oct 31 j 17:20 5°**△**34'07 0°28'59 direct -4487 Jun 19 j 00:05 5° Mp 16'17 minimum elong -4481 Oct 31 j 17:20 5°**£**34'07 0°28'58 evening set -4487 Sep 20 j 04:50 8° Mp 34'22 max. Earth dist. -4481 Nov 01 j 13:36 5°**♀**37'10 20.39200 AU -4481 Nov 16 j 07:33 6°**£**29'56 morning rise -4487 Oct 05 j 19:28 9° Mp 31'36 0°44'06 -4480 Feb 17 j 05:19 9°**£**42'36 conjunction retrograde

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4480 in astronomical counting style is the year 4481 BCE in historical counting style. -4480 May 04 j 12:41 7°**£**42'51 0°30'23 morning rise -4475 Dec 10 i 09:39 1°M27'48 opposition 7°**2**45'01 18.42489 AU -4480 May 03 j 15:11 -4474 Mar 14 j 02:18 4°MJ37'24 min. Earth dist. retrograde -4480 Jul 20 j 04:18 5°**£**43'49 min. Earth dist. -4474 May 29 j 22:41 2°M40'34 18.77337 AU direct 8°**£**52'48 -4480 Oct 19 j 13:16 -4474 May 31 j 02:51 0°07'49 evening set opposition 2°MJ37'45 direct -4474 Aug 15 j 05:55 0°M40'24 -4480 Nov 04 j 02:43 conjunction 9°**≏**48'16 0°25'51 evening set -4474 Nov 13 j 07:08 3°M42'51 9°**≏**48'16 minimum elong -4480 Nov 04 j 02:43 0°25'50 max. Earth dist. -4480 Nov 05 j 01:17 9°**£**51'39 20.45690 AU conjunction -4474 Nov 28 j 22:26 4°**ጤ**37'19 0°05'24 morning rise -4480 Nov 19 j 17:12 10°**£**43'54 minimum elong -4474 Nov 28 j 22:26 4°M37'19 0°05'17 retrograde -4479 Feb 20 j 17:31 13°**♀**56'01 behind sun begin -4474 Nov 28 j 16:06 4°M36'24 min. Earth dist. -4479 May 08 j 07:09 11°**⊆**58'31 18.48852 AU behind sun end -4474 Nov 29 j 04:47 4°MJ38'13 opposition -4479 May 09 j 05:13 11°**≏**56'18 0°26'50 max. Earth dist. -4474 Nov 30 j 04:28 4°M41'42 20.79866 AU -4479 Jul 24 j 18:14 direct 9°**£**57'35 morning rise -4474 Dec 14 j 16:18 5°M32'09 evening set -4479 Oct 23 j 21:53 13°**♀**05'21 retrograde -4473 Mar 18 j 11:45 8°M41'21 min. Earth dist. -4473 Jun 03 j 09:44 6°**M**44'40 18.82398 AU conjunction -4479 Nov 08 j 11:22 14°**2**00'36 0°22'37 opposition -4473 Jun 04 j 14:36 6°M41'46 0°03'53 minimum elong -4479 Nov 08 j 11:22 14°**≙**00'36 0°22'34 direct -4473 Aug 19 j 16:09 4°M44'43 max. Earth dist. -4479 Nov 09 j 10:16 14°**♀**04'01 20.51932 AU evening set -4473 Nov 17 j 12:32 7°ML46'18 morning rise -4479 Nov 24 j 02:24 14°**£**56'05 retrograde -4478 Feb 25 j 06:29 18°**£**07'37 conjunction -4473 Dec 03 j 04:15 8°M40'39 0°01'50 opposition -4478 May 13 j 20:42 16°**♀**07'55 0°23'10 minimum elong -4473 Dec 03 j 04:14 8°M40'39 0°01'43 min. Earth dist. -4478 May 12 j 20:52 16°**♀**10'19 18.54973 AU behind sun begin -4473 Dec 02 j 21:41 8°M39'44 -4478 Jul 29 i 08:19 14°**£**09'30 behind sun end -4473 Dec 03 i 10:47 8°M41'35 direct evening set -4478 Oct 28 j 05:40 17°**£**16'05 max. Earth dist. -4473 Dec 04 i 10:01 8°ML45'00 20.84807 AU morning rise -4473 Dec 18 j 23:00 9°M35'25 -4478 Nov 12 j 19:29 18°**2**11'09 0°19'17 -4472 Mar 21 j 22:02 conjunction retrograde 12°M,44'16 -4472 Jun 03 j 18:31 -4478 Nov 12 j 19:29 18°**£**11'09 0°19'14 desc node 10°M,55'03 minimum elong -4472 Jun 06 j 20:02 max. Earth dist. -4478 Nov 13 j 20:43 18° № 14'53 20 57927 AU min. Earth dist. 10°M47'42 18.87209 AU 10°ML44'45 -0°00'03 -4478 Nov 28 j 10:52 19°**Ω**06'27 -4472 Jun 08 j 01:36 morning rise opposition -4477 Mar 01 j 17:40 -4472 Aug 23 j 00:04 22°**₽**17'28 direct 8°M-47'57 retrograde -4477 May 17 j 10:59 20°**£**20'14 18.60858 AU -4472 Nov 20 j 17:30 11°M48'46 min. Earth dist. evening set -4477 May 18 j 11:32 20°**₽**17'46 0°19'25 opposition -4472 Dec 06 j 09:58 -4477 Aug 02 j 21:06 conjunction 12°M43'02 -0°01'50 direct 18°**♀**19'37 -4477 Nov 01 j 12:50 -4472 Dec 06 j 09:57 evening set 21°**2**25′03 minimum elong 12°M43'02 0°01'58 -4472 Dec 06 j 03:24 behind sun begin 12°M42'06 -4477 Nov 17 j 02:48 22°**2**19'56 0°15'52 -4472 Dec 06 j 16:31 conjunction behind sun end 12°M43'57 -4472 Dec 07 j 17:26 minimum elong -4477 Nov 17 j 02:47 22°**₽**19'56 0°15'47 max. Earth dist. 12°M47'36 20.89456 AU behind sun begin -4477 Nov 17 j 01:10 22°**₽**19'42 morning rise -4472 Dec 22 j 05:22 13°M37'44 behind sun end -4477 Nov 17 j 04:25 22°**♀**20'10 -4471 Jan 17 j 03:07 15°M max. Earth dist. -4477 Nov 18 j 04:24 22°**£**23'43 20.63712 AU retrograde -4471 Mar 26 j 06:30 16°M46'14 morning rise -4477 Dec 02 j 18:52 23°**£**15′07 -4471 Jun 07 j 00:04 15°RM -4476 Mar 05 j 05:23 min. Earth dist. -4471 Jun 11 j 06:08 14°M49'48 18.91687 AU retrograde 26°**£**25'38 -4476 May 20 j 23:20 -4471 Jun 12 j 12:01 14°ML46'49 -0°03'58 min. Earth dist. 24° **2**28'33 18.66550 AU opposition -4476 May 22 j 01:30 24°**£**25'55 -4471 Aug 27 j 08:55 opposition 0°15'36 direct 12°M50'17 22°**₽**28'02 -4471 Nov 09 j 12:39 direct -4476 Aug 06 j 08:54 15°M evening set -4476 Nov 04 j 19:26 25°**-**32'24 evening set -4471 Nov 24 i 22:25 15°M50'24 conjunction -4476 Nov 20 j 09:53 26°**2**27'08 0°12'24 conjunction -4471 Dec 10 j 15:19 16°M44'34 -0°05'22 -4476 Nov 20 j 09:52 26°**₽**27'08 0°12'19 minimum elong -4471 Dec 10 j 15:19 16°M44'34 0°05'31 minimum elong behind sun begin -4476 Nov 20 i 05:28 26°**£**26'30 behind sun begin -4471 Dec 10 i 09:00 16°M43'41 behind sun end -4476 Nov 20 j 14:17 26°**₽**27'46 behind sun end -4471 Dec 10 j 21:39 16°M45'28 -4476 Nov 21 j 13:45 26°**△**31'14 20.69293 AU -4471 Dec 11 j 22:06 16°M49'02 20.93755 AU max. Earth dist. max. Earth dist. 27°**£**22'11 17°M39'13 morning rise -4476 Dec 06 j 02:24 morning rise -4471 Dec 26 j 11:41 -4475 Feb 01 j 09:23 0°M retrograde -4470 Mar 30 j 16:31 20°M47'27 retrograde -4475 Mar 09 j 15:35 0° M $_{3}2'12$ opposition -4470 Jun 16 j 21:53 18°M48'06 -0°07'51 -4475 Apr 15 j 20:44 30°R Ω min. Earth dist. -4470 Jun 15 j 15:53 18°M51'05 18.95798 AU min. Earth dist. -4475 May 25 j 11:35 28°**♀**35'13 18.72038 AU -4470 Aug 31 j 15:42 16°M51'47 direct -4475 May 26 j 14:29 0°11'43 -4470 Nov 29 j 03:06 19°M51'16 opposition 28°**♀**32'31 evening set direct -4475 Aug 10 j 20:18 26°**£**34'54 -4470 Dec 14 j 20:48 evening set -4475 Nov 09 j 01:38 29°**₽**38'17 conjunction 20°M45'23 -0°08'50 -4475 Nov 15 j 07:59 0° M minimum elong -4470 Dec 14 j 20:48 20°M45'23 0°09'01 behind sun begin -4470 Dec 14 j 15:11 20°M44'36 conjunction -4475 Nov 24 j 16:20 0°M32'52 0°08'55 behind sun end -4470 Dec 15 j 02:26 20°M46'11 minimum elong -4475 Nov 24 j 16:20 0° M $_32'52$ 0°08'49 max. Earth dist. -4470 Dec 16 j 04:53 20°M50'01 20.97649 AU behind sun begin -4475 Nov 24 j 10:40 0° M $_{3}2'03$ morning rise -4470 Dec 30 j 17:51 21°M40'00 behind sun end -4475 Nov 24 j 22:00 -4469 Apr 04 j 00:07 0°MJ33'40 retrograde 24°M47'57 max. Earth dist. min. Earth dist. -4469 Jun 20 j 01:17 -4475 Nov 25 j 20:16 0° M.36'58 20.74686 AU 22°M51'40 18.99468 AU

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Earth dist. -4469 Dec 20 j 09:00 24°M-49'59 21.01083 AU retrograde -4462 May 02 j 07:34 22°**х** 36′12 morning rise -4468 Jan 04 j 00:13 25°M40'08 min. Earth dist. -4462 Jul 18 j 10:48 20°**✗**39'10 19.10661 AU retrograde -4468 Apr 07 j 09:35 28°M47'52 opposition -4462 Jul 19 j 12:01 20°**х** 36′38 -0°35′43 -4468 Jun 23 j 10:44 -4462 Oct 02 j 13:53 min. Earth dist. 26°M51'33 19.02653 AU direct 18°**х** 40′37 -4462 Dec 30 j 15:55 opposition -4468 Jun 24 j 16:13 26° ML $48'37 - 0^{\circ}15'27$ evening set 21°**х** 37′20 direct -4468 Sep 08 j 05:15 24°M52'38 evening set -4468 Dec 06 j 12:26 27°M51'02 conjunction -4461 Jan 15 j 16:30 22°**∡**31'35 -0°33'36 minimum elong -4461 Jan 15 j 16:30 22°**∡**³31'35 0°33'49 conjunction -4468 Dec 22 j 07:39 28°M45'06 -0°15'39 max. Earth dist. -4461 Jan 16 j 20:25 22°**✗**35'33 21.10546 AU minimum elong -4468 Dec 22 j 07:39 28° MJ45'060°15'49 morning rise -4461 Jan 31 j 21:11 23°**х** 26′25 behind sun begin -4468 Dec 22 j 06:19 28°M44'54 retrograde -4461 May 06 j 15:16 26°×733'09 behind sun end -4468 Dec 22 j 08:59 28°M45'17 opposition -4461 Jul 23 j 18:00 24°**₹**33'32 -0°38'34 max. Earth dist. -4468 Dec 23 j 15:15 28°M49'38 21.03991 AU min. Earth dist. -4461 Jul 22 j 17:09 24°**✗**36′03 19.10432 AU morning rise -4467 Jan 07 i 06:29 29°M39'40 direct -4461 Oct 06 i 18:35 22°**х** 37′28 -4467 Jan 13 i 09:23 0°×7 evening set -4460 Jan 03 j 21:02 25°**₹**34'11 retrograde -4467 Apr 11 j 16:58 2°**х** 47′10 min. Earth dist. -4467 Jun 27 j 19:22 0° ₹ 50'51 19.05283 AU conjunction -4460 Jan 19 i 22:28 26° **₹** 28'31 -0°36'06 opposition -4467 Jun 29 j 00:27 0°**х** 47′56 -0°19′09 -4460 Jan 19 j 22:28 26°**х** 28'31 0°36'19 minimum elong -4467 Jul 19 j 14:31 max. Earth dist. -4460 Jan 21 j 00:22 26° ₹32'12 21.10135 AU 30°RM. 28°M52'04 -4460 Feb 05 j 04:20 27°**∡**¹23'27 direct -4467 Sep 12 j 12:07 morning rise -4467 Nov 03 j 19:50 -4460 Apr 04 j 07:53 0°×7 0°궁 -4467 Dec 10 j 17:07 1°×750'01 -4460 May 09 j 23:09 0°る30'14 retrograde evening set -4460 Jun 15 j 05:09 30°R **₹** -4460 Jul 26 j 23:57 -4467 Dec 26 j 13:00 2°**∡**144'03 -0°18'56 conjunction opposition 28°**₹**30'34 -0°41'14 -4467 Dec 26 j 13:00 2° × 44'03 0°19'07 min. Earth dist. -4460 Jul 26 j 00:30 28°**✗**32'56 19.09835 AU minimum elong -4467 Dec 27 j 18:57 -4460 Oct 09 j 22:21 26° **₹**34'25 max. Earth dist. 2°**∡**48'20 21.06347 AU direct -4466 Jan 11 j 12:56 -4459 Jan 07 j 02:21 29°**х** 31'15 morning rise 3°×38'39 evening set -4466 Apr 16 j 01:22 -4459 Jan 15 j 15:46 retrograde 6°×745'56 0°궁 -4466 Jul 02 j 04:17 min. Earth dist. 4°**∡**′49'30 19.07364 AU opposition -4466 Jul 03 j 08:30 4°**∡**146'40 -0°22'44 conjunction -4459 Jan 23 j 04:56 0°る25'42 -0°38'26 direct -4466 Sep 16 j 17:11 2°**х** 50′50 minimum elong -4459 Jan 23 j 04:56 0°る25'42 0°38'39 -4466 Dec 14 j 21:26 5°**х¹**48′22 max. Earth dist. -4459 Jan 24 j 06:57 0°る29'23 21.09342 AU evening set morning rise -4459 Feb 08 j 11:36 1°る20'44 -4466 Dec 30 j 18:20 6° ₹ 42'26 -0°22'07 retrograde -4459 May 14 j 07:17 4°る27'35 conjunction -4466 Dec 30 j 18:20 6°**∡**¹42'26 0°22'18 -4459 Jul 30 j 06:39 2°る30'14 19.08842 AU minimum elong min. Earth dist. -4465 Jan 01 j 00:53 6°**₹**¹46'48 21.08148 AU -4459 Jul 31 j 05:32 2°る27'55 -0°43'43 max. Earth dist. opposition -4465 Jan 15 j 19:05 7°**∡**³37′02 -4459 Oct 14 j 02:52 0°る31'42 morning rise direct -4465 Apr 20 i 08:55 3°る28'43 retrograde 10°**х** 44′09 evening set -4458 Jan 11 i 08:10 opposition -4465 Jul 07 i 16:01 8°**х** 44'49 -0°26'11 4°**ට**23'18 -0°40'36 min. Earth dist. -4465 Jul 06 j 12:11 8° ₹ 47'37 19.08890 AU conjunction -4458 Jan 27 j 11:36 direct -4465 Sep 20 j 23:42 6°**х** 48′59 minimum elong -4458 Jan 27 j 11:36 4°る23'18 0°40'48 -4465 Dec 19 j 02:02 9°**×**⁷46'11 max. Earth dist. -4458 Jan 28 i 11:21 4°る26'40 21.08164 AU evening set -4458 Feb 12 j 19:26 5°₹18'28 morning rise -4464 Jan 03 j 23:41 10°**∡** 40′16 -0°25′11 -4458 May 18 j 15:33 8°**궁**25'28 conjunction retrograde -4464 Jan 03 j 23:41 10°**∡**⁷40′16 0°25′24 -4458 Aug 04 j 11:19 6°₹25'46 -0°46'00 minimum elong opposition 6°る27'55 19.07467 AU max. Earth dist. -4464 Jan 05 j 04:30 10°**∡**′44′22 21.09425 AU min. Earth dist. -4458 Aug 03 j 14:09 morning rise -4464 Jan 20 j 01:36 11°**х** 34′54 direct -4458 Oct 18 j 06:02 4°る29'28 7°る26'46 retrograde -4464 Apr 23 j 16:34 14°**∡**′41'52 evening set -4457 Jan 15 j 14:11 -4464 Jul 10 j 23:02 opposition 12°**∡**′42'27 -0°29'31 -4464 Jul 09 j 20:20 12°**✗**¹45'08 19.09927 AU -4457 Jan 31 j 18:49 8°**ට**21'30 -0°42'34 min. Earth dist. conjunction 10°**х** 46'34 -4457 Jan 31 j 18:49 direct -4464 Sep 24 j 04:10 minimum elong 8°る21'30 0°42'47 -4464 Dec 22 j 06:33 13°**∡**¹43'31 -4457 Feb 01 j 18:26 8°る24'51 21.06580 AU evening set max. Earth dist. 9°**る**16'49 morning rise -4457 Feb 17 j 03:29 conjunction -4463 Jan 07 j 05:16 14°**∡**37'38 -0°28'08 retrograde -4457 May 23 j 00:42 12°る23'59 minimum elong -4463 Jan 07 j 05:16 14°**₹**37'38 0°28'20 opposition -4457 Aug 08 j 16:58 10°る24'17 -0°48'04 max. Earth dist. -4463 Jan 08 j 10:33 14°**✗**¹41'48 21.10221 AU min. Earth dist. -4457 Aug 07 j 20:41 10°る26'21 19.05656 AU morning rise -4463 Jan 23 j 07:59 15°**х** 32′20 direct -4457 Oct 22 j 11:07 8°る27'54 -4463 Apr 28 j 00:04 18°**х** 39′09 -4456 Jan 19 j 21:06 11°る25'34 retrograde evening set

-4463 Jul 14 j 03:17

min. Earth dist.

16°**∡**′42'19 19.10496 AU

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4456 in astronomical counting style is the year 4457 BCE in historical counting style. -4456 Feb 05 j 02:36 12°る20'27 -0°44'20 retrograde -4450 Jun 20 j 22:11 10°≈38'52 conjunction opposition -4456 Feb 05 j 02:36 12°る20'27 0°44'32 -4450 Sep 05 j 11:50 8°≈38'30 -0°55'41 minimum elong max. Earth dist. -4456 Feb 05 j 23:27 12°る23'24 21.04550 AU min. Earth dist. -4450 Sep 05 j 05:35 8°≈39'09 18.79105 AU -4456 Feb 21 j 12:24 -4450 Nov 19 j 00:10 13°る15'55 direct 6°≈≈40'18 morning rise -4456 May 26 j 09:25 16°**පි**23'18 -4449 Feb 17 j 13:27 retrograde evening set 9°≈42'15 14°る23'36 -0°49'55 opposition -4456 Aug 11 j 22:39 -4449 Mar 06 j 02:12 min. Earth dist. -4456 Aug 11 j 04:41 14°る25'26 19.03390 AU conjunction 10°≈38'39 -0°50'21 -4449 Mar 06 j 02:12 direct -4456 Oct 25 j 14:02 12°**る**27'05 minimum elong 10°≈38'39 0°50'30 -4455 Jan 23 j 04:27 evening set 15°**ට**25'11 max. Earth dist. -4449 Mar 06 j 09:07 10°**≈**39'39 20.76393 AU morning rise -4449 Mar 22 j 17:51 11°≈35'30 conjunction -4455 Feb 08 j 11:08 16°る20'15 -0°45'54 retrograde -4449 Jun 25 j 09:09 14°≈44'59 -4455 Feb 08 j 11:08 -4449 Sep 09 j 18:41 minimum elong 16°る20'15 0°46'07 opposition 12°≈44'27 -0°55'41 -4449 Sep 09 j 13:29 max. Earth dist. -4455 Feb 09 j 07:16 16°る23'07 21.02031 AU min. Earth dist. 12°≈45'00 18.73629 AU morning rise -4455 Feb 24 j 21:41 17°る15'53 direct -4449 Nov 23 j 07:42 10°≈45'53 retrograde -4455 May 30 j 19:32 20°る23'31 evening set -4448 Feb 22 j 01:27 13°≈48'41 min. Earth dist. -4455 Aug 15 j 11:41 18°る25'30 19.00606 AU opposition -4455 Aug 16 j 04:25 18°る23'47 -0°51'31 conjunction -4448 Mar 09 j 14:57 14°≈45'21 -0°50'13 direct -4455 Oct 29 j 19:53 16°る27'07 minimum elong -4448 Mar 09 j 14:57 14°**≈**45'21 0°50'22 evening set -4454 Jan 27 j 12:24 19°る25'43 max. Earth dist. -4448 Mar 09 j 18:37 14°≈45'52 20.70790 AU -4448 Mar 13 j 20:53 conjunction -4454 Feb 12 j 19:56 20°る20'58 -0°47'14 morning rise -4448 Mar 26 j 07:26 15°≈42'26 minimum elong -4454 Feb 12 i 19:56 20°る20'58 0°47'26 retrograde -4448 Jun 28 i 20:07 18°≈52'20 max. Earth dist. -4454 Feb 13 i 12:52 20°る23'22 20.98986 AU opposition -4448 Sep 13 i 01:54 16°≈51'38 -0°55'24 morning rise -4454 Mar 01 i 07:33 21°る16'47 min. Earth dist. -4448 Sep 12 j 23:23 16°≈51'54 18.67916 AU retrograde -4454 Jun 04 j 04:43 24°る24'41 -4448 Nov 09 j 21:16 15°R≈ -4454 Aug 20 j 10:32 22°る24'53 -0°52'53 -4448 Nov 26 j 14:45 14°≈52'40 opposition direct -4454 Aug 19 j 20:21 22°る26'20 18.97293 AU -4448 Dec 13 j 08:14 min. Earth dist. 15°≈ -4454 Nov 02 j 23:44 20°る27'59 -4447 Feb 25 j 14:00 17°≈56'25 direct evening set -4453 Jan 31 j 20:56 23°る27'08 evening set -4447 Mar 14 j 04:33 18°≈53'21 -0°49'49 conjunction 24°**ප්**22'36 -0°48'21 -4453 Feb 17 j 05:40 -4447 Mar 14 j 04:33 conjunction minimum elong 18°≈53'21 0°49'58 -4453 Feb 17 j 05:40 -4447 Mar 14 j 07:10 24°る22'36 0°48'33 max. Earth dist. 18°≈53'44 20.64975 AU minimum elong max. Earth dist. -4453 Feb 17 j 21:31 24°る24'51 20.95403 AU morning rise -4447 Mar 30 j 21:32 19°≈50'40 -4453 Mar 05 j 18:02 25°**る**18'36 -4447 Jul 03 j 08:23 morning rise retrograde 23°≈01'00 -4453 Jun 08 j 15:12 28°₹26'46 -4447 Sep 17 j 09:32 retrograde opposition 21°≈00'10 -0°54'51 26°**る**26'53 -0°53'59 -4447 Sep 17 j 07:52 opposition -4453 Aug 24 j 16:31 min. Earth dist. 21°≈00'20 18.62004 AU 26°る28'12 18.93434 AU min. Earth dist. -4453 Aug 24 j 03:41 direct -4447 Nov 30 j 23:29 19°≈00'51 direct -4453 Nov 07 j 06:03 24°る29'43 evening set -4446 Mar 02 j 03:21 22°≈05'34 -4452 Feb 05 j 06:14 27°る29'29 evening set conjunction -4446 Mar 18 j 18:35 23°≈02'47 -0°49'10 conjunction -4452 Feb 21 j 15:52 28°る25'09 -0°49'13 minimum elong -4446 Mar 18 j 18:35 23°≈02'47 0°49'18 -4452 Feb 21 j 15:52 28°る25'09 0°49'25 max. Earth dist. -4446 Mar 18 j 18:09 23°≈02'43 20.58985 AU minimum elong max. Earth dist. -4452 Feb 22 j 04:14 28°る26'55 20.91294 AU -4446 Apr 04 j 12:18 24°≈00'22 morning rise -4452 Mar 09 j 05:17 29°る21'21 -4446 Jul 07 j 19:58 27°≈11'10 morning rise retrograde -4452 Mar 21 j 02:04 -4446 Sep 21 j 17:47 opposition 25°≈10'13 -0°53'59 retrograde -4452 Jun 12 j 01:08 2°≈29'50 min. Earth dist. -4446 Sep 21 i 18:46 25°≈10'07 18.55946 AU opposition -4452 Aug 27 j 22:51 0°≈29'48 -0°54'50 direct -4446 Dec 05 i 07:18 23°≈10'32 min. Earth dist. -4452 Aug 27 j 12:46 0°≈30'50 18.89078 AU evening set -4445 Mar 06 i 17:35 26°≈16'19 -4452 Sep 09 i 03:05 30°Rる direct -4452 Nov 10 i 11:19 28°る32'19 conjunction -4445 Mar 23 i 09:49 27°≈13'50 -0°48'15 -4451 Jan 09 j 11:00 0°**≈** minimum elong -4445 Mar 23 i 09:49 27°≈13'50 0°48'23 -4451 Feb 08 j 15:59 1°≈32'44 max. Earth dist. -4445 Mar 23 j 08:12 27°≈13'36 20.52864 AU evening set -4445 Apr 09 j 03:57 28°≈11'39 morning rise conjunction -4451 Feb 25 j 02:45 2°≈28'39 -0°49'51 -4445 May 14 j 11:30 0°**)** -4445 Jul 12 j 09:54 minimum elong -4451 Feb 25 j 02:45 2°≈28'39 0°50'02 retrograde 1° # 22'58 -4445 Sep 10 j 19:03 max. Earth dist. -4451 Feb 25 j 14:00 2°≈30'15 20.86707 AU 30°R≈ -4451 Mar 13 j 16:49 3°≈25'03 opposition -4445 Sep 26 j 02:16 29°≈21'55 -0°52'51 morning rise -4451 Jun 16 j 11:31 min. Earth dist. -4445 Sep 26 j 04:15 29°≈21'43 18.49751 AU retrograde 6°≈33'50 -4451 Sep 01 j 05:09 direct -4445 Dec 09 j 17:30 27°≈21'53 opposition 4°≈33'39 -0°55'24 -4444 Mar 01 j 17:55 0°**)**€ min. Earth dist. -4451 Aug 31 j 20:15 4°≈34'34 18.84269 AU -4444 Mar 10 j 09:00 0°**)**€28'49 direct -4451 Nov 14 j 17:57 2°≈35'50 evening set evening set -4450 Feb 13 j 02:29 5°≈36'58 conjunction -4444 Mar 27 j 01:49 1°\(\pm\)26'38 -0°47'04 conjunction -4450 Mar 01 j 14:04 6°≈33'07 -0°50'13 minimum elong -4444 Mar 27 j 01:49 1°**¥**26'38 0°47'11 minimum elong -4450 Mar 01 j 14:04 6°≈33'07 0°50'25 max. Earth dist. -4444 Mar 26 j 21:02 1°**¥**25'56 20.46608 AU max. Earth dist. -4450 Mar 01 j 22:01 6°≈34'15 20.81715 AU -4444 Apr 12 j 20:31 2° # 24'43 morning rise -4450 Mar 18 j 05:06 7°≈29'45 -4444 Jul 15 j 22:36 5°\ 36'34 morning rise retrograde

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4444 in astronomical counting style is the year 4445 BCE in historical counting style. -4444 Sep 29 j 11:37 3°\cdot\35'27 -0°51'25 conjunction -4437 Apr 28 j 18:31 1°Y50'14 -0°31'36 opposition -4444 Sep 29 j 16:28 3°**)** €34'56 18.43435 AU -4437 Apr 28 j 18:31 1°Y50'14 0°31'36 min. Earth dist. minimum elong -4444 Dec 13 j 02:15 1° #35'05 -4437 Apr 27 j 21:14 1°**Y**47'04 19.99055 AU direct max. Earth dist. -4437 May 15 j 14:08 -4443 Mar 15 j 01:04 4°**)**€43'12 2°Y50'04 evening set morning rise -4437 Aug 16 j 17:01 6°Y05'54 retrograde -4443 Mar 31 j 18:41 5°\(\)41'18 -0°45'38 -4437 Oct 29 j 23:23 4°Y04'05 -0°33'24 conjunction opposition min. Earth dist. 4°Υ02'10 17.95553 AU minimum elong -4443 Mar 31 j 18:42 5°\dagger41'18 0°45'44 -4437 Oct 30 j 17:12 2°**Y**'00'53 max. Earth dist. -4443 Mar 31 j 12:28 5°**¥**40'24 20.40227 AU direct -4436 Jan 13 j 02:28 5°Y18'02 morning rise -4443 Apr 17 j 13:40 6°**)** 39'38 evening set -4436 Apr 15 j 20:55 retrograde -4443 Jul 20 j 14:11 9° **\(**52'04 opposition -4443 Oct 03 j 21:25 7°**)**50'54 -0°49'41 conjunction -4436 May 02 j 17:13 6°Υ18'10 -0°28'28 -4436 May 02 j 17:13 min. Earth dist. -4443 Oct 04 j 03:20 7°**¥**50'16 18.36978 AU minimum elong 6°Υ18'10 0°28'28 direct -4443 Dec 17 j 14:20 5°**X**50'11 max. Earth dist. -4436 May 01 j 18:09 6°**Y**14'43 19.92073 AU evening set -4442 Mar 19 j 18:22 8°**¥**59'33 morning rise -4436 May 19 j 12:30 7°Υ18'13 retrograde -4436 Aug 20 j 10:25 10°**Y**34'35 conjunction -4442 Apr 05 j 12:29 9°\ 57'57 -0°43'55 opposition -4436 Nov 02 j 14:21 8°Y32'39 -0°29'49 minimum elong -4442 Apr 05 j 12:29 9°**升**57'57 0°44'00 min. Earth dist. -4436 Nov 03 j 10:35 8°**Υ**30'28 17.88648 AU max. Earth dist. -4442 Apr 05 j 03:04 9°**¥**56'35 20.33693 AU direct -4435 Jan 16 j 18:01 6°Y29'01 morning rise -4442 Apr 22 j 07:49 10°\ 56'33 evening set -4435 Apr 20 j 20:01 9°Y47'27 retrograde -4442 Jul 25 j 03:55 14°**)**€09'34 opposition -4442 Oct 08 j 08:00 12°\(\mathbf{H}\)08'20 -0°47'39 conjunction -4435 May 07 j 16:16 10°Y47'51 -0°25'09 min. Earth dist. -4442 Oct 08 j 17:01 12°**)**€07'22 18.30373 AU minimum elong -4435 May 07 j 16:16 10°**Y**47′51 0°25'07 direct -4442 Dec 22 i 00:31 10°**)**€07'15 max. Earth dist. -4435 May 06 j 15:16 10°**Y**44'05 19.85264 AU evening set -4441 Mar 24 j 12:31 13°**)** € 17'53 morning rise -4435 May 24 j 11:20 11° Y 48' 07 retrograde -4435 Aug 25 j 07:00 15°Y05'01 -4441 Apr 10 j 07:20 14°¥16'36 -0°41'57 -4435 Nov 07 j 05:54 13°Y'02'57 -0°26'02 conjunction opposition -4441 Apr 10 j 07:20 14°¥16'36 0°42'01 -4435 Nov 08 j 02:35 13°**Y**′00'43 17.81952 AU min. Earth dist. minimum elong -4441 Apr 09 j 19:57 14°**)** 14′56 20.27009 AU -4434 Jan 21 j 13:00 10°Y58'53 max. Earth dist. direct -4441 Apr 27 j 02:52 -4434 Apr 25 j 19:59 14° Y 18'37 15°**¥**15′27 evening set morning rise -4441 Jul 29 j 20:59 18°**¥**29′02 retrograde -4441 Oct 12 j 19:14 16°**升**27'43 -0°45'20 -4434 May 12 j 16:14 15°**Y**19'16 -0°21'39 conjunction opposition -4441 Oct 13 j 05:24 -4434 May 12 j 16:14 min. Earth dist. 16°**¥**26'38 18.23598 AU minimum elong 15°**Y**19'16 0°21'36 -4434 May 11 j 14:17 -4441 Dec 26 j 14:41 14°**¥**26′16 max. Earth dist. 15°**Y**15'20 19.78684 AU direct -4440 Mar 28 j 07:48 17°**)** 38′12 -4434 May 29 j 10:44 16°**⋎**19'44 evening set morning rise -4434 Aug 30 j 01:35 19°**Y**37′09 retrograde -4440 Apr 14 j 02:59 18°**)** 37'12 -0°39'43 -4434 Nov 11 j 22:18 17°**Y**35′00 -0°22′04 conjunction opposition 17°**Y**32'32 17.75526 AU minimum elong -4440 Apr 14 j 02:59 18°**)** ₹37'12 0°39'46 min. Earth dist. -4434 Nov 12 j 20:57 max. Earth dist. -4440 Apr 13 j 12:27 18°**)** 35′04 20.20146 AU direct -4433 Jan 26 j 05:51 15°**Y**30'32 morning rise -4440 Apr 30 j 22:39 19°**¥**36′18 evening set -4433 Apr 30 j 20:47 18°Y51'33 retrograde -4440 Aug 02 j 11:46 22°**升**50′28 -4440 Oct 16 j 07:18 20°\dagger49'03 -0°42'44 conjunction -4433 May 17 j 16:44 19°Υ52'25 -0°18'00 opposition -4440 Oct 16 j 20:32 20°**)** 47'38 18.16670 AU -4433 May 17 j 16:44 19°**Y**52'25 0°17'57 min. Earth dist. minimum elong -4440 Dec 30 j 03:01 18°**)**(47'11 max. Earth dist. -4433 May 16 j 12:45 19°**Y**48'10 19.72423 AU direct -4439 Apr 02 j 03:49 22°**)**€00′25 -4433 Jun 03 j 10:52 20°**Y**53′04 evening set morning rise -4433 Sep 03 j 23:15 24°Y11'01 retrograde 22°Y08'46 -0°17'56 conjunction -4439 Apr 18 j 23:27 22° **** 59'42 -0°37'15 opposition -4433 Nov 16 j 15:29 22°Υ06'16 17.69443 AU minimum elong -4439 Apr 18 j 23:27 22°**)** 59'43 0°37'16 min. Earth dist. -4433 Nov 17 j 14:26 20°**Y**03′59 max. Earth dist. -4439 Apr 18 i 06:48 22°\f57'15 20.13166 AU direct -4432 Jan 31 i 02:25 23°**Y**26'14 morning rise -4439 May 05 j 19:10 23°**)** 59'03 evening set -4432 May 04 j 22:08 retrograde -4439 Aug 07 i 05:46 27°**₩** 13'47 -4439 Oct 20 i 19:56 25° ¥ 12'15 -0°39'53 conjunction -4432 May 21 i 17:53 24°Y27'20 -0°14'14 opposition min. Earth dist. -4439 Oct 21 j 10:08 25° **)** 10'44 18.09642 AU -4432 May 21 j 17:53 24°**Y**27′20 0°14'09 minimum elong -4438 Jan 03 j 18:48 23°\(\frac{1}{2}\)09'57 -4432 May 21 j 14:47 24°Y26'52 direct behind sun begin 24°**Y**27'47 evening set -4438 Apr 07 j 00:36 26°\ 24'29 behind sun end -4432 May 21 j 20:58 24°**Υ**23'02 19.66514 AU max. Earth dist. -4432 May 20 j 13:43 -4432 Jun 07 j 11:12 25°Y28'08 conjunction -4438 Apr 23 j 20:32 27°**)** 24'04 -0°34'32 morning rise 28°Y46'35 minimum elong -4438 Apr 23 j 20:32 27°**)** 24'04 0°34'34 retrograde -4432 Sep 07 j 18:59 -4438 Apr 23 j 01:23 27°**∺**21'13 20.06105 AU -4432 Nov 20 j 09:39 26°Y44'20 -0°13'40 max. Earth dist. opposition 26°**Y**41'40 17.63733 AU -4438 May 10 j 16:13 28°**)** 23'40 -4432 Nov 21 j 10:04 morning rise min. Earth dist. $0^{\circ}\Upsilon$ -4438 Jun 09 j 14:13 24° Y 39'15 direct -4431 Feb 03 j 21:13 1°**Y**38'57 28°**Y**02'44 retrograde -4438 Aug 11 j 21:54 evening set -4431 May 10 j 00:16 -4438 Oct 16 j 13:09 30°**₹** opposition -4438 Oct 25 j 09:26 29°**₭**37'17 -0°36'46 conjunction -4431 May 26 j 19:27 29°**Y**′04′00 -0°10′20 min. Earth dist. -4438 Oct 26 j 02:27 29°**₭**35'27 18.02576 AU minimum elong -4431 May 26 j 19:27 29°**Y**′04'01 0°10'15 direct -4437 Jan 08 j 09:04 27°**)** 34'32 behind sun begin -4431 May 26 j 14:07 29°**Y**03′13 -4437 Mar 28 j 01:02 $0^{\circ}\Upsilon$ behind sun end -4431 May 27 j 00:47 29° Y 04' 48 -4437 Apr 11 j 22:20 0°Y50'22 max. Earth dist. -4431 May 25 j 13:24 28°Υ59'24 19.61015 AU evening set

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•	ical year style is used: Th		•				ige 39
Attention, astronom	-4431 Jun 11 j 03:09	0° 8	n astronomicai cou	morning rise	-4426 Jul 06 j 22:27	23° 8 33'02	
marning rise	-4431 Jun 12 j 12:14	0° と 04'57		-	-4426 Oct 06 j 10:21	26° 8 54'02	
morning rise	J	3° 8 23'56		retrograde	3	_	0°13'27
retrograde	-4431 Sep 12 j 17:22	1° 8 21'40	0000116	opposition	-4426 Dec 18 j 15:53	24° 8 51'54	
opposition	-4431 Nov 25 j 04:29		17.58445 AU	min. Earth dist.	-4426 Dec 19 j 19:36	24 8 48 33 22° 8 45'38	17.37759 AU
min. Earth dist.	-4431 Nov 26 j 05:13	1° ⊘ 18′37 30° Ŗ Υ	17.38443 AU	direct	-4425 Mar 04 j 21:05	26° 8 15'04	
J:	-4431 Dec 29 j 04:41			evening set	-4425 Jun 08 j 23:50	_	10.26192 AII
direct	-4430 Feb 08 j 19:36	29° Y 16'20 0° ႘		max. Earth dist.	-4425 Jun 24 j 05:22	2/30114/	19.36182 AU
	-4430 Mar 21 j 21:43	_		:	4405 Jun 25 : 14:26	27° 8 16'58	0°14'08
evening set	-4430 May 15 j 02:50	2° 8 41'00		conjunction	-4425 Jun 25 j 14:26	_	0°14'17
	4420 M 21 : 21.42	3° 8 42'27	0007122	minimum elong behind sun begin	-4425 Jun 25 j 14:26 -4425 Jun 25 j 11:23	27° 8 16'58	0-14-17
conjunction minimum elong	-4430 May 31 j 21:42 -4430 May 31 j 21:43	3° 8 42'27	0°06'15	behind sun begin	-4425 Jun 25 j 17:28	27° 8 10'30	
behind sun begin	-4430 May 31 j 21:43	3° 8 41'30	0 00 13	morning rise	-4425 Jul 12 j 01:08	28° 8 18'19	
behind sun end	-4430 Jun 01 j 04:07	3° 8 43'25		morning risc	-4425 Aug 11 j 02:19	0°Ⅱ	
max. Earth dist.	-4430 May 30 j 15:57	_	19.55920 AU	retrograde	-4425 Oct 11 j 09:39	0 Ⅱ 1°Ⅱ39'34	
morning rise	-4430 Jun 17 j 13:33	4° 8 43'31	19.33920 AU	renograde	-4425 Dec 14 j 23:40	30°R B	
retrograde	-4430 Sep 17 j 14:11	8° 8 02'58		opposition	-4425 Dec 23 j 15:40	29° 8 37'27	0°17'54
opposition	-4430 Nov 30 j 00:20	6°800'45	0°04'47	min. Earth dist.	-4425 Dec 24 j 19:57	_	17.34809 AU
min. Earth dist.	-4430 Nov 30 j 00:20	. •	17.53545 AU	direct	-4424 Mar 08 j 23:10	29 8 34 22 27° 8 31'00	17.34609 AU
direct	-4429 Feb 13 j 17:01	3° 8 55'12	17.33343 AU	direct	-4424 May 26 j 21:36	0°Ⅱ	
evening set	-4429 May 20 j 06:20	7° 8 21'01		evening set	-4424 Jun 13 j 04:32	1° 耳 01'06	
max. Earth dist.	-4429 Jun 04 j 16:42	_	19.51217 AU	max. Earth dist.	-4424 Jun 28 j 10:05		19.33457 AU
max. Earm dist.	-4429 Juli 04 J 16.42	8 O 1/42	19.31217 AU	max. Earm dist.	-4424 Juli 28 J 10.03	1 Д3/38	19.55457 AU
conjunction	-4429 Jun 06 j 00:24	8° 8 22'36	0°02'18	conjunction	-4424 Jun 29 j 18:07	2° Ⅱ 02'59	0°18'04
minimum elong	-4429 Jun 06 j 00:23	8° 8 22'36		minimum elong	-4424 Jun 29 j 18:07	2° I 02'59	
behind sun begin	-4429 Jun 05 j 17:37	8° 8 21'34	0 02 10	morning rise	-4424 Jul 16 j 03:34	3° Ⅱ 04'19	0 10 13
behind sun end	-4429 Jun 06 j 07:09	8° 8 23'37		retrograde	-4424 Oct 15 j 10:35	6° Ⅱ 25'47	
morning rise	-4429 Jun 22 j 15:28	9° 8 23'46		opposition	-4424 Dec 27 j 15:58	4° I 23'40	0°22'15
retrograde	-4429 Sep 22 j 12:56	12° 8 43'41		min. Earth dist.	-4424 Dec 28 j 19:26		17.32316 AU
opposition	-4429 Dec 04 j 20:57	10° 8 41'29	-0°00'14	direct	-4423 Mar 14 j 02:53	2° Ⅱ 17'06	17.52510710
min. Earth dist.	-4429 Dec 05 j 23:24	_	17.49041 AU	evening set	-4423 Jun 18 j 09:19	5° Ⅱ 47'42	
asc. node	-4429 Dec 23 j 17:35	9° 8 53'19	17.47041710	evening set	4425 Jun 10 J 07.17	3 11 17 12	
direct	-4428 Feb 18 j 17:14	8° 8 35'44		conjunction	-4423 Jul 04 j 21:43	6° Ⅱ 49'35	0°21'53
evening set	-4428 May 24 j 10:10	12° 8 02'36		minimum elong	-4423 Jul 04 j 21:43	6° Ⅱ 49'35	
max. Earth dist.	-4428 Jun 08 j 20:29		19.46889 AU	max. Earth dist.	-4423 Jul 03 j 13:42		19.31218 AU
man. Barur dige.	20 tun 00 j 20.25	12 007 27	15.10005110	morning rise	-4423 Jul 21 j 05:55	7° I I50'52	17.01210110
conjunction	-4428 Jun 10 j 03:39	13° 8 04'19	0°01'55	retrograde	-4423 Oct 20 j 09:54	11° I I12'30	
minimum elong	-4428 Jun 10 j 03:38	13° 8 04'19	0°02'03	opposition	-4422 Jan 01 j 16:44	9° Ⅱ 10'22	0°26'26
behind sun begin	-4428 Jun 09 j 20:52	13° 8 03'17		min. Earth dist.	-4422 Jan 02 j 20:35		17.30354 AU
behind sun end	-4428 Jun 10 j 10:24	13° 8 05'20		direct	-4422 Mar 19 j 05:21	7° Ⅱ 03'41	
morning rise	-4428 Jun 26 j 17:35	14° 8 05'33		evening set	-4422 Jun 23 j 13:54	10° Ⅲ 34'43	
C	-4428 Jul 12 j 05:26	15° 8		max. Earth dist.	-4422 Jul 08 j 18:13		19.29535 AU
retrograde	-4428 Sep 26 j 11:24	17° 8 25'53					
opposition	-4428 Dec 08 j 18:35	15° 8 23'43	0°04'21	conjunction	-4422 Jul 10 j 01:09	11° Ⅱ 36'32	0°25'33
min. Earth dist.	-4428 Dec 09 j 21:39	15° 8 20'45	17.44899 AU	minimum elong	-4422 Jul 10 j 01:09	11° Ⅱ 36'32	0°25'46
	-4428 Dec 17 j 20:59	15°R₩		morning rise	-4422 Jul 26 j 08:08	12° Ⅱ 37'45	
direct	-4427 Feb 22 j 17:28	13° 8 17'48		retrograde	-4422 Oct 25 j 11:14	15° Ⅱ 59'29	
	-4427 Apr 27 j 23:44	15° 8		opposition	-4421 Jan 06 j 17:59	13° Ⅱ 57'22	0°30'27
evening set	-4427 May 29 j 14:23	16° 8 45'37		min. Earth dist.	-4421 Jan 07 j 20:16	13° Ⅱ 54'31	17.28952 AU
max. Earth dist.	-4427 Jun 13 j 22:08	17° 8 42'19	19.42933 AU	direct	-4421 Mar 24 j 09:40	11° Ⅱ 50'37	
				evening set	-4421 Jun 28 j 18:15	15° Ⅱ 21'56	
conjunction	-4427 Jun 15 j 06:53	17° 8 47'24	0°06'02	max. Earth dist.	-4421 Jul 13 j 22:28	16° Ⅱ 18'58	19.28431 AU
minimum elong	-4427 Jun 15 j 06:52	17° 8 47'24	0°06'12				
behind sun begin	-4427 Jun 15 j 00:28	17° 8 46'26		conjunction	-4421 Jul 15 j 04:14	16° Ⅲ 23'41	0°29'03
behind sun end	-4427 Jun 15 j 13:16	17° 8 48'22		minimum elong	-4421 Jul 15 j 04:14	16° Ⅲ 23'41	0°29'16
morning rise	-4427 Jul 01 j 19:54	18° 8 48'43		morning rise	-4421 Jul 31 j 09:50	17° Ⅲ 24'48	
retrograde	-4427 Oct 01 j 10:27	22° 8 09'25		retrograde	-4421 Oct 30 j 10:49	20° Ⅱ 46'36	
opposition	-4427 Dec 13 j 16:56	20° 8 07'16	0°08'55	opposition	-4420 Jan 11 j 19:48	18° Ⅱ 44'31	0°34'15
min. Earth dist.	-4427 Dec 14 j 20:36	20° 8 04'14	17.41142 AU	min. Earth dist.	-4420 Jan 12 j 22:02	18° Ⅱ 41'40	17.28172 AU
direct	-4426 Feb 27 j 18:50	18° 8 01'09		direct	-4420 Mar 28 j 12:39	16° Ⅱ 37'44	
evening set	-4426 Jun 03 j 18:55	21° 8 29'50		evening set	-4420 Jul 02 j 22:18	20° Ⅱ 09'14	
max. Earth dist.	-4426 Jun 19 j 02:36	22° 8 26'42	19.39360 AU	max. Earth dist.	-4420 Jul 18 j 02:24	21° Ⅱ 06′20	19.27984 AU
conjunction	-4426 Jun 20 j 10:38	22° 8 31'42	0°10'06	conjunction	-4420 Jul 19 j 06:56	21° I I10'51	0°32'21
minimum elong	-4426 Jun 20 j 10:38	22° 8 31'42		minimum elong	-4420 Jul 19 j 06:55	21° Ⅱ 10′51	0°32'21 0°32'33
	-			-	3		

Planetary Phenomena of Uranus from -4900 through -4398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4419 in astronomical counting style is the year 4420 BCE in historical counting style. -4419 Jan 15 j 21:53 23°**П**31'39 0°37'48 conjunction -4413 Aug 22 j 12:40 24°932'56 0°48'07 opposition -4419 Jan 16 j 21:46 23°**Ⅲ**29'04 17.28057 AU -4413 Aug 22 j 12:40 0°48'18 min. Earth dist. minimum elong 24°932'56 -4419 Apr 02 j 17:26 21°**Ⅲ**24′56 -4413 Aug 21 j 22:20 direct max. Earth dist. 24°930'40 19 42396 AU -4413 Sep 07 j 08:28 -4419 Jul 08 j 01:48 24°II56'28 25°932'37 evening set morning rise max. Earth dist. -4419 Jul 23 j 06:54 25°**Д**53'48 19.28206 AU -4413 Dec 07 j 09:34 retrograde 28°953'29 -4412 Feb 19 j 18:21 opposition 26°952'21 0°54'15 conjunction -4419 Jul 24 j 09:14 25°**Ⅲ**57'58 0°35'25 min. Earth dist. -4412 Feb 20 j 07:11 26°950'59 17.44377 AU -4419 Jul 24 j 09:14 0°35'38 minimum elong 25°**Ⅲ**57'58 direct -4412 May 06 j 23:38 24°9547'17 morning rise -4419 Aug 09 j 12:13 26°**Ⅲ**58'50 evening set -4412 Aug 10 j 12:44 28°915'53 -4419 Oct 12 j 10:10 0ಂತಾ retrograde -4419 Nov 08 j 11:30 0°9520'41 conjunction -4412 Aug 26 j 10:57 29°**©**15'50 0°49'08 -4412 Aug 26 j 10:57 0°49'20 -4419 Dec 06 j 00:33 30°RⅡ minimum elong 29°**©**15'50 -4412 Aug 25 j 21:36 opposition -4418 Jan 21 j 00:23 28°**Ⅱ**18'43 0°41'06 max. Earth dist. 29°513'44 19.46403 AU min. Earth dist. -4418 Jan 21 j 23:50 28°**I**16'10 17.28622 AU -4412 Sep 07 j 03:28 $0^{\circ}\Omega$ direct -4418 Apr 07 j 20:56 26°**Ⅲ**12'07 morning rise -4412 Sep 11 j 05:53 0°Ω15'17 evening set -4418 Jul 13 j 05:08 29°**Ⅲ**43'36 retrograde -4412 Dec 11 j 09:00 3°**Ω**35'48 opposition -4418 Jul 17 j 14:39 0ಂತಾ -4411 Feb 23 j 21:07 1°**Ω**34'45 0°55'11 max. Earth dist. -4418 Jul 28 j 09:51 0°5540'56 19.29117 AU min. Earth dist. -4411 Feb 24 j 07:51 1°**Ω**33'37 17.48568 AU -4411 Apr 07 j 07:02 30°Rூ conjunction -4418 Jul 29 j 11:07 0°9544'56 0°38'15 direct -4411 May 12 j 02:53 29°9529'57 minimum elong -4418 Jul 29 j 11:06 0°9544'56 0°38'27 -4411 Jun 15 j 03:30 $0^{\circ}\Omega$ morning rise -4418 Aug 14 j 12:56 1°9545'39 -4411 Aug 15 j 11:14 2°Ω57'41 evening set retrograde -4418 Nov 13 j 12:18 5°907'27 opposition -4417 Jan 26 i 02:54 3°505'36 0°44'07 conjunction -4411 Aug 31 i 08:30 3°**Ω**57'21 0°49'48 min. Earth dist. -4417 Jan 26 j 23:49 3°903'20 17.29858 AU -4411 Aug 31 j 08:30 3°**Ω**57'21 0°49'59 minimum elong -4417 Apr 13 j 02:16 max. Earth dist. -4411 Aug 30 j 22:13 3°**Ω**55'44 19.50762 AU direct 0°959'10 -4417 Jul 18 j 07:54 4°930'30 -4411 Sep 16 j 02:25 4°Ω56'33 morning rise evening set -4411 Dec 16 j 07:11 8°Ω16'39 retrograde -4417 Aug 03 j 12:40 opposition -4410 Feb 28 j 23:37 5°931'39 0°40'49 6°Ω15'41 0°55'44 conjunction -4417 Aug 03 j 12:40 -4410 Mar 01 j 08:21 6°**Ω**14'46 17.53073 AU minimum elong 5°931'39 0°41'02 min. Earth dist. -4410 May 17 j 05:37 -4417 Aug 02 j 14:14 max. Earth dist. 5°528'06 19.30677 AU 4°Ω11'11 direct -4417 Aug 19 j 13:05 -4410 Aug 20 j 09:01 7°**Ω**37'55 morning rise 6°932'11 evening set -4417 Nov 18 j 11:35 retrograde 9°953'54 -4410 Sep 05 j 05:03 -4416 Jan 31 j 05:58 8°**Ω**37'17 0°50'09 opposition 7°952'12 0°46'50 conjunction -4416 Feb 01 j 02:08 -4410 Sep 05 j 05:03 min. Earth dist. 7°950'02 17.31726 AU minimum elong 8°**Ω**37'17 0°50'19 -4410 Sep 04 j 20:05 8°**Ω**35'52 19.55430 AU direct -4416 Apr 17 j 06:43 5°9546'02 max. Earth dist. -4410 Sep 20 j 22:14 9°**£**36′13 evening set -4416 Jul 22 j 10:07 9°9517'03 morning rise retrograde -4410 Dec 21 j 05:02 12°**Ω**55'53 conjunction -4416 Aug 07 j 13:24 10°9517'59 0°43'06 -4409 Mar 06 j 01:44 10°Ω54'58 0°55'55 opposition -4416 Aug 07 j 13:24 10°9517'59 0°43'19 min. Earth dist. -4409 Mar 06 j 08:35 10°**Ω**54'14 17.57902 AU minimum elong max. Earth dist. -4416 Aug 06 j 15:59 10°5514'36 19.32852 AU direct -4409 May 22 j 07:54 8°**Q**50'44 -4416 Aug 23 j 12:46 -4409 Aug 25 j 05:40 12°**Ω**16′23 morning rise 11°5518'20 evening set -4416 Nov 22 j 11:45 retrograde 14°539'56 -4415 Feb 04 j 08:59 12°538'23 0°49'13 -4409 Sep 10 j 00:49 13°Ω15'28 0°50'10 opposition conjunction -4415 Feb 05 j 02:36 -4409 Sep 10 j 00:49 min. Earth dist. 12°936'30 17.34179 AU minimum elong 13°Ω15'28 0°50'20 -4409 Sep 09 i 18:56 direct -4415 Apr 22 j 12:01 10°932'27 max. Earth dist. 13°**Ω**14'32 19.60423 AU evening set -4415 Jul 27 i 11:44 14°9503'04 morning rise -4409 Sep 25 i 17:09 14°Ω14'08 -4409 Oct 08 i 12:49 15°Ω conjunction -4415 Aug 12 j 13:52 15°503'47 0°45'06 retrograde -4409 Dec 26 i 02:07 17°**Ω**33'18 -4415 Aug 12 i 13:52 15°903'47 0°45'18 -4408 Mar 10 i 03:24 15°Ω32'26 0°55'44 minimum elong opposition -4415 Aug 11 j 19:32 15°500'53 19.35568 AU min. Earth dist. -4408 Mar 10 j 07:34 15°**Ω**31'59 17.63043 AU max. Earth dist. -4415 Aug 28 j 11:53 -4408 Mar 23 j 04:22 15°RΩ morning rise 16°903'56 -4415 Nov 27 j 10:47 -4408 May 26 j 10:27 13°**Ω**28'31 retrograde 19°925'20 direct -4408 Jul 26 j 00:28 opposition -4414 Feb 09 j 12:03 17°923'57 0°51'15 15°Ω min. Earth dist. -4414 Feb 10 j 04:44 17°522'10 17.37139 AU evening set -4408 Aug 29 j 01:15 16°**£**52′59 -4414 Apr 27 j 16:03 15°5518'18 direct -4414 Aug 01 j 12:54 18°9548'22 conjunction -4408 Sep 13 j 19:23 17°**Ω**51'45 0°49'51 evening set -4408 Sep 13 j 19:24 17°Ω51'45 0°49'59 minimum elong -4414 Aug 17 j 13:35 -4408 Sep 13 j 15:27 17°**Ω**51'08 19.65729 AU conjunction 19°9548'50 0°46'46 max. Earth dist. minimum elong -4414 Aug 17 j 13:35 19°9548'50 0°46'59 morning rise -4408 Sep 29 j 11:10 18°**£**50′10 22°**Ω**08'51 max. Earth dist. -4414 Aug 16 j 20:05 19°5546'04 19.38769 AU retrograde -4408 Dec 29 j 21:52 -4414 Sep 02 j 10:37 20°5548'46 -4407 Mar 15 j 04:32 20°**Ω**07'59 0°55'11 morning rise opposition retrograde -4414 Dec 02 j 10:46 24°909'56 min. Earth dist. -4407 Mar 15 j 06:54 20°**Ω**07'44 17.68521 AU opposition -4413 Feb 14 j 15:11 22°908'40 0°52'56 direct -4407 May 31 j 11:06 18°**Ω**04'23 min. Earth dist. -4413 Feb 15 j 05:31 22°907'09 17.40563 AU evening set -4407 Sep 02 j 19:52 21°**Ω**27'39 -4413 May 02 j 20:26 direct 20°903'18 -4407 Sep 18 j 13:14 $22^{\circ}\Omega 26'07$ $0^{\circ}49'13$ evening set -4413 Aug 06 j 13:06 23°932'43 conjunction

Planetary Phenomena of Uranus from -4900 thro	ough -4398 (UT), Astrodienst AG 18-Feb-2025 14:23,	page 41
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•	omena of Uranus fro		•				age 41
Attention, astronom	ical year style is used: Th			inting style is the year	4408 BCE in historical c	ounting style.	
minimum elong	-4407 Sep 18 j 13:14	22° Ω 26′07	0°49'22	opposition	-4400 Apr 16 j 18:24	21°Mp25'21	0°42'35
max. Earth dist.	-4407 Sep 18 j 12:16		19.71376 AU	min. Earth dist.	-4400 Apr 16 j 03:38	-•	18.14506 AU
morning rise	-4407 Oct 04 j 04:21	23° Ω 24'15		direct	-4400 Jul 02 j 18:26	19° m 24'46	
retrograde	-4406 Jan 03 j 17:58	26° Ω 42'24		evening set	-4400 Oct 03 j 04:26	22° m 39'06	
opposition	-4406 Mar 20 j 04:49	24° Ω 41'36					
min. Earth dist.	-4406 Mar 20 j 04:02		17.74325 AU	conjunction	-4400 Oct 18 j 18:07	23° m 35'34	
direct	-4406 Jun 05 j 12:20	22° Ω 38′21		minimum elong	-4400 Oct 18 j 18:08	23° TD 35'34	
evening set	-4406 Sep 07 j 13:36	26° Ω 00′24		max. Earth dist.	-4400 Oct 19 j 09:48	-•	20.17992 AU
				morning rise	-4400 Nov 03 j 07:41	24° Tp 32'01	
conjunction	-4406 Sep 23 j 06:06	26° Ω 58'33		retrograde	-4399 Feb 03 j 17:34	27° Mp 46'30	
minimum elong	-4406 Sep 23 j 06:06	26° Ω 58'33		opposition	-4399 Apr 21 j 14:19	25° Mp 46'34	
max. Earth dist.	-4406 Sep 23 j 07:28		19.77350 AU	min. Earth dist.	-4399 Apr 20 j 22:50		18.21461 AU
morning rise	-4406 Oct 08 j 20:44	27° Ω 56′26		direct	-4399 Jul 07 j 11:35	23° TQ 46'25	
_	-4406 Nov 16 j 02:52	0° m)		evening set	-4399 Oct 07 j 16:10	26° Mp 59'28	
retrograde	-4405 Jan 08 j 11:55	1° mp 14'03					
	-4405 Mar 05 j 23:25	30°R€		conjunction	-4399 Oct 23 j 05:35	27° m 55'40	0°34'26
opposition	-4405 Mar 25 j 04:49	29° Ω 13'19		minimum elong	-4399 Oct 23 j 05:35	27° m 55'40	
min. Earth dist.	-4405 Mar 25 j 02:18		17.80473 AU	max. Earth dist.	-4399 Oct 23 j 22:21		20.24892 AU
direct	-4405 Jun 10 j 10:55	27° Ω 10′28		morning rise	-4399 Nov 07 j 19:19	28° m 51'54	
	-4405 Sep 03 j 12:01	0° m)			-4399 Nov 27 j 22:40	0∘ ⊽	
evening set	-4405 Sep 12 j 06:11	0°m/31'15					
conjunction	4405 Sam 27 : 22:02	10 m 2010/	0047105				
conjunction	-4405 Sep 27 j 22:02	1° Mp 29'06 1° Mp 29'06					
minimum elong max. Earth dist.	-4405 Sep 27 j 22:02	•					
	-4405 Sep 28 j 02:10	-	19.83663 AU				
morning rise	-4405 Oct 13 j 12:16	2° Mp 26'43					
retrograde	-4404 Jan 13 j 07:25	5° Mp 43'50	0051124				
opposition min. Earth dist.	-4404 Mar 29 j 04:04 -4404 Mar 28 j 22:04	3° Mp 43'12	17.86923 AU				
direct	-4404 Jun 14 j 10:31	1°Mp40'47	17.80923 AU				
evening set	-4404 Sep 15 j 21:58	5°M)00'17					
evening set	-4404 Sep 13 j 21.38	3 IIJ 00 17					
conjunction	-4404 Oct 01 j 13:13	5° m 57'51	0°45'35				
minimum elong	-4404 Oct 01 j 13:13	5° m 57'51					
max. Earth dist.	-4404 Oct 01 j 19:55	•	19.90247 AU				
morning rise	-4404 Oct 17 j 03:09	6° m 55'14					
retrograde	-4403 Jan 16 j 23:58	10° m) 11'49					
opposition	-4403 Apr 03 j 02:37	8° m)11'19	0°49'44				
min. Earth dist.	-4403 Apr 02 j 19:15	8° m) 12'05	17.93631 AU				
direct	-4403 Jun 19 j 06:47	6° Mp 09′21					
evening set	-4403 Sep 20 j 12:50	9° m 27'35					
conjunction	-4403 Oct 06 j 03:34	10° Mp $24'51$	0°43'49				
minimum elong	-4403 Oct 06 j 03:34	10° m 24'51	0°43'54				
max. Earth dist.	-4403 Oct 06 j 12:29	10°M/26'13	19.97059 AU				
morning rise	-4403 Oct 21 j 17:20	11° m 21'59					
retrograde	-4402 Jan 21 j 18:33	14° m 38'03					
opposition	-4402 Apr 08 j 00:29	12° Mp 37'42					
min. Earth dist.	-4402 Apr 07 j 13:49	-	18.00511 AU				
direct	-4402 Jun 24 j 04:27	10° Mp 36'12					
evening set	-4402 Sep 25 j 02:49	13° m 53'09					
• .•	4400 0 4 40 11 = 0 =	1.40 % 50:00	0041140				
conjunction	-4402 Oct 10 j 17:06		0°41'49				
minimum elong	-4402 Oct 10 j 17:06	14° m 50'08					
max. Earth dist.	-4402 Oct 11 j 04:37	-	20.03995 AU				
morning rise	-4402 Oct 26 j 06:40	15° Mp 47'02					
retrograde	-4401 Jan 26 j 09:45	19° Mp 02'35	0045113				
opposition	-4401 Apr 12 j 21:54	17° Mp 02'23					
min. Earth dist.	-4401 Apr 12 j 10:09		18.07494 AU				
direct	-4401 Jun 28 j 23:07	15° Mp 01'21					
evening set	-4401 Sep 29 j 16:03	18° m 17'00					
conjunction	-4401 Oct 15 j 05:57	19° m 13'43	0°39'34				
minimum elong	-4401 Oct 15 j 05:58	19° m) 13'43					
max. Earth dist.	-4401 Oct 15 j 19:12		20.11006 AU				
morning rise	-4401 Oct 30 j 19:32	20° m) 10'23					
retrograde	-4400 Jan 31 j 03:19	23° m) 25'24					
5		a					