Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7900 in astronomical counting style is the year 7901 BCE in historical counting style. -7900 Jan 18 j 13:33 19°**Ω**51′06 min. Earth dist. -7894 Apr 22 j 00:41 1° M 39'05 29.16692 AU retrograde opposition -7900 Apr 08 j 06:57 18°**Ω**27'34 2°27'34 -7894 Jul 10 j 17:29 0° m 15'23 direct -7900 Apr 07 j 21:06 18°**Ω**28'14 29.21124 AU -7894 Oct 05 j 12:48 2°m 08'21 min. Earth dist. evening set -7900 Jun 27 j 01:51 17°**Ω**04'33 direct -7900 Sep 22 j 05:56 18°**Ω**58'03 -7894 Oct 20 j 15:59 evening set conjunction 2° Mp 42'28 1°59'13 -7894 Oct 20 j 16:00 minimum elong 2° Mp 42'28 1°59'31 -7900 Oct 07 j 06:48 19°**Q**31'59 2°16'56 -7894 Oct 21 j 05:42 conjunction max. Earth dist. 2° Mp 43'46 31.16048 AU -7900 Oct 07 j 06:49 minimum elong 19°**Ω**31'59 2°17'19 morning rise -7894 Nov 04 j 21:28 3° Mp 16'50 -7900 Oct 07 j 15:53 max. Earth dist. 19°**Ω**32'51 31.20708 AU retrograde -7893 Feb 03 j 04:27 5° m 14'00 morning rise -7900 Oct 22 j 09:20 20°**Ω**06′05 min. Earth dist. -7893 Apr 24 j 11:42 3° m 50'57 29.15675 AU retrograde -7899 Jan 20 j 01:17 22°**Ω**02'38 opposition -7893 Apr 25 j 02:32 3° Mp 49'57 2°05'30 -7893 Jul 13 j 05:39 opposition -7899 Apr 10 j 20:08 20°**Q**39'04 2°25'01 direct 2° m 27'06 -7893 Oct 07 j 21:58 min. Earth dist. -7899 Apr 10 j 10:18 20°**Ω**39'44 29.20635 AU evening set 4° m 19'58 direct -7899 Jun 29 j 11:36 19°**Ω**16′08 evening set -7899 Sep 24 j 14:56 21°\O9'33 conjunction -7893 Oct 23 j 01:34 4° m 54'08 1°55'38 minimum elong -7893 Oct 23 j 01:35 4° **₪** 54'08 1°55'55 conjunction -7899 Oct 09 j 16:14 21°**Ω**43'31 2°14'27 max. Earth dist. -7893 Oct 23 j 16:03 4° m 55'30 31.15040 AU minimum elong -7899 Oct 09 j 16:15 21°**Ω**43'31 2°14'50 morning rise -7893 Nov 07 j 07:39 5° m 28'32 max. Earth dist. -7899 Oct 10 j 03:05 21°**Ω**44'33 31.20197 AU retrograde -7892 Feb 05 j 16:37 7° m 25'46 morning rise -7899 Oct 24 j 19:03 22°**Ω**17'40 opposition -7892 Apr 26 j 15:30 6° Mp 01'37 2°01'35 retrograde -7898 Jan 22 j 12:31 24°Ω14'21 min. Earth dist. -7892 Apr 26 j 00:44 6° Mp 02'37 29.14695 AU opposition -7898 Apr 13 i 09:16 22°Ω50'45 2°22'16 direct -7892 Jul 14 i 17:28 4° m 38'45 min. Earth dist. -7898 Apr 12 j 22:09 22°Ω51'30 29.20074 AU evening set -7892 Oct 09 j 07:01 6° m 31'31 direct -7898 Jul 01 i 22:42 21°Ω27'52 evening set -7898 Sep 27 j 00:06 23°**Ω**21'13 conjunction -7892 Oct 24 i 11:09 7° m 05'43 1°51'54 -7892 Oct 24 j 11:10 7° m 05'43 1°52'09 minimum elong -7898 Oct 12 j 01:35 23°Ω55'13 2°11'47 -7892 Oct 25 j 03:09 7° Mp 07'14 31.14110 AU max. Earth dist. conjunction -7898 Oct 12 j 01:36 23°Ω55'13 2°12'08 -7892 Nov 08 j 17:44 7° m 40'09 minimum elong morning rise -7898 Oct 12 j 12:04 23° Ω56'13 31.19595 AU -7891 Feb 07 j 04:40 9°**m** 37′29 max. Earth dist. retrograde -7898 Oct 27 j 05:02 24°**\O**29'24 -7891 Apr 28 j 11:25 8° Mp 14'23 29.13803 AU min. Earth dist. morning rise -7897 Jan 25 j 02:00 $26^{\circ}\Omega 26'13$ -7891 Apr 29 j 04:17 8° m 13'14 1°57'29 retrograde opposition -7897 Apr 15 j 22:28 -7891 Jul 17 j 05:48 25°Ω02'34 2°19'18 6° Mp 50'23 opposition direct min. Earth dist. -7897 Apr 15 j 10:55 25°**Ω**03'21 29.19415 AU -7891 Oct 11 j 16:18 8° Mp 43'03 evening set -7897 Jul 04 j 07:32 23°**Ω**39'43 direct -7897 Sep 29 j 09:17 -7891 Oct 26 j 20:47 9° m 17'17 1°47'59 evening set 25°**Ω**33'00 conjunction -7891 Oct 26 j 20:48 minimum elong 9° m 17'17 1°48'14 -7897 Oct 14 j 11:17 26°**Ω**07'02 2°08'55 9° m 18'50 31.13278 AU conjunction max. Earth dist. -7891 Oct 27 j 13:05 -7897 Oct 14 j 11:18 26°**Ω**07'02 2°09'15 morning rise -7891 Nov 11 j 04:07 9° m 51'47 minimum elong max. Earth dist. -7897 Oct 14 j 23:18 26°**Ω**08'10 31.18868 AU retrograde -7890 Feb 09 j 15:58 11°Mp49'12 morning rise -7897 Oct 29 j 15:03 26°**Ω**41'15 -7890 May 01 j 17:12 10° m 24'52 1°53'13 opposition retrograde -7896 Jan 27 j 13:31 28°**Ω**38'11 min. Earth dist. -7890 May 01 j 00:12 10° Mp 26'02 29.13031 AU -7896 Apr 17 j 11:28 27°**Ω**14'28 2°16'08 -7890 Jul 19 j 15:33 9°m/02'03 opposition direct -7896 Apr 16 j 23:28 27°**Ω**15'16 29.18610 AU -7890 Oct 14 j 01:26 10° m 54'38 min. Earth dist. evening set -7896 Jul 05 j 19:40 25°**Ω**51'39 direct -7896 Sep 30 j 18:35 27°**Ω**44'50 -7890 Oct 29 j 06:38 11° m/28'55 1°43'55 evening set conjunction minimum elong -7890 Oct 29 i 06:38 11° m 28'55 1°44'08 -7896 Oct 15 j 20:50 conjunction 28°Ω18'54 2°05'51 max. Earth dist. -7890 Oct 30 i 00:56 11° m 30'39 31.12566 AU minimum elong -7896 Oct 15 i 20:51 28°Ω18'54 2°06'11 morning rise -7890 Nov 13 j 14:26 12° m 03'28 max. Earth dist. -7896 Oct 16 i 08:34 28°Ω20'00 31.18017 AU retrograde -7889 Feb 12 i 02:50 14° m 00'58 -7896 Oct 31 j 01:14 28°Ω53'09 min. Earth dist. -7889 May 03 i 11:29 12° m 37'52 29.12351 AU morning rise -7896 Dec 03 j 14:04 0° m -7889 May 04 j 05:59 12° M 36'36 1°48'47 opposition -7895 Jan 29 j 04:02 0° m 50'11 direct -7889 Jul 22 j 03:02 11° m 13'49 retrograde -7895 Mar 29 j 16:51 30°R€ -7889 Oct 16 j 10:53 13° Mp 06'20 evening set min. Earth dist. -7895 Apr 19 j 11:26 29°**Ω**27'15 29.17696 AU opposition -7895 Apr 20 j 00:35 29°**Ω**26'22 2°12'46 conjunction -7889 Oct 31 j 16:26 13° m 40'40 1°39'41 direct -7895 Jul 08 j 06:23 28°**Ω**03'32 minimum elong -7889 Oct 31 j 16:27 13° m/40'40 1°39'53 -7895 Oct 03 j 03:36 29°**Ω**56'38 -7889 Nov 01 j 10:33 13° Mp 42'22 31.11936 AU evening set max. Earth dist. -7895 Oct 04 j 16:03 0° M -7889 Nov 16 j 01:03 14° Mp 15'16 morning rise -7888 Feb 14 j 16:19 16° m 12'52 retrograde -7895 Oct 18 j 06:21 0° m 30'43 $2^{\circ}02'38$ -7888 May 05 j 18:42 14° Mp 48'28 1°44'10 conjunction opposition 14° Mp 49'46 29.11750 AU minimum elong -7895 Oct 18 j 06:22 0° **m** 30'43 $2^{\circ}02'57$ min. Earth dist. -7888 May 04 j 23:41 max. Earth dist. -7895 Oct 18 j 19:30 0° Mp 31'58 31.17055 AU direct -7888 Jul 23 j 11:50 13° m 25'44 morning rise -7895 Nov 02 j 11:14 1° Mp 05'02 evening set -7888 Oct 17 j 20:15 15° m 18'12 retrograde -7894 Jan 31 j 15:32 3° Mp 02'09 opposition -7894 Apr 22 j 13:45 1° m/38'12 2°09'14 conjunction -7888 Nov 02 j 02:29 15° m 52'34 1°35'18

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7888 in astronomical counting style is the year 7889 BCE in historical counting style. -7888 Nov 02 i 02:30 15° m 52'34 1°35'29 -7881 Jun 01 i 02:37 30°R M minimum elong -7888 Nov 02 j 22:23 -7881 Aug 08 j 17:16 28° m 53'04 max. Earth dist. 15° m 54'27 31.11357 AU direct -7888 Nov 17 j 11:36 -7881 Oct 11 j 23:37 0∘**⊽** 16° m 27'13 morning rise -7887 Feb 16 j 03:44 18° m) 24'57 -7881 Nov 02 j 17:28 0°**Ω**45'11 retrograde evening set -7887 May 07 j 11:55 min. Earth dist. 17° Mp 01'51 29.11169 AU -7887 May 08 j 07:33 17° Mp 00'31 -7881 Nov 18 j 03:51 1°**≏**19'52 opposition 1°39'24 conjunction 1°01'00 -7887 Jul 25 j 23:08 -7881 Nov 18 j 03:52 direct 15° m 37'50 minimum elong 1°**£**19'53 1°01'03 evening set -7887 Oct 20 j 05:47 17° m 30'15 max. Earth dist. -7881 Nov 19 j 02:58 1°**£**22'04 31.05513 AU morning rise -7881 Dec 03 j 17:43 1° 254'55 conjunction -7887 Nov 04 j 12:29 18° Mp 04'39 1°30'46 retrograde -7880 Mar 03 j 22:27 3°**£**53'11 minimum elong -7887 Nov 04 j 12:30 18° Mp 04'40 1°30'56 min. Earth dist. -7880 May 23 j 02:07 2°**£**29'52 29.05035 AU -7887 Nov 05 j 08:16 max. Earth dist. 18° Mp 06'32 31.10789 AU opposition -7880 May 24 j 00:39 2°**₽**28'19 1°02'18 morning rise -7887 Nov 19 j 22:23 18° Mp 39'22 direct -7880 Aug 10 j 05:20 1°**2**05'40 retrograde -7886 Feb 18 j 18:17 20° m 37'13 evening set -7880 Nov 04 j 03:40 2°**£**57'43 opposition -7886 May 10 j 20:25 19° **m** 12'45 1°34'29 min. Earth dist. -7886 May 09 j 23:49 19° m 14'09 29.10578 AU conjunction -7880 Nov 19 j 14:30 3°**₽**32'28 0°55'41 direct -7886 Jul 28 j 08:47 17° m 50'06 minimum elong -7880 Nov 19 j 14:30 3°**£**32′28 0°55'43 evening set -7886 Oct 22 j 15:34 19° m 42'29 max. Earth dist. -7880 Nov 20 j 13:10 3°**2**34'36 31.04469 AU morning rise -7880 Dec 05 j 05:12 4°**£**07'34 conjunction -7886 Nov 06 j 22:52 20° m 16'57 1°26'06 retrograde -7879 Mar 06 j 11:49 6°**£**05'53 minimum elong -7886 Nov 06 j 22:53 20° Mp 16'57 1°26'15 opposition -7879 May 26 j 13:11 4°**£**40'56 0°56'35 max. Earth dist. -7886 Nov 07 j 19:44 20° m 18'55 31.10161 AU min. Earth dist. -7879 May 25 j 14:20 4°**2**42'30 29.04034 AU morning rise -7886 Nov 22 j 09:23 20° m 51'43 direct -7879 Aug 12 j 14:43 3°**₽**18'16 retrograde -7885 Feb 21 i 06:23 22° m 49'40 evening set -7879 Nov 06 j 13:44 5°**2**10'16 -7885 May 13 j 09:11 21°m/25'10 1°29'26 opposition -7885 May 12 j 13:03 21° m/26'32 29.09904 AU -7879 Nov 22 j 01:19 5°**£**45'03 0°50'17 min. Earth dist. conjunction -7885 Jul 30 j 18:59 20° m 02'33 -7879 Nov 22 j 01:19 5°**£**45'03 0°50'18 direct minimum elong -7885 Oct 25 j 01:28 21° m 54'54 -7879 Nov 23 j 01:38 max. Earth dist. 5°**2**47'21 31.03510 AU evening set -7879 Dec 07 j 16:34 6°**£**20'13 morning rise 22° m 29'25 1°21'19 -7885 Nov 09 j 09:22 -7878 Mar 08 j 22:25 conjunction retrograde 8° 18'35 6°**2**55'12 29.03121 AU -7885 Nov 09 j 09:23 -7878 May 28 j 02:11 22° m/29'25 1°21'26 min. Earth dist. minimum elong -7885 Nov 10 j 06:22 22° m 31'24 31.09450 AU max. Earth dist. -7878 May 29 j 01:37 6°**£**53'35 0°50'45 opposition -7885 Nov 24 j 20:33 23° Mp 04'14 -7878 Aug 15 j 02:04 5°**£**30'55 morning rise direct -7884 Feb 23 j 20:50 25° m 02'16 -7878 Nov 09 j 00:07 7°**£**22'53 retrograde evening set -7884 May 14 j 21:57 opposition 23° m 37'43 1°24'14 -7878 Nov 24 j 12:14 7°**2**57'43 0°44'49 min. Earth dist. -7884 May 14 j 00:35 23° m 39'11 29.09123 AU conjunction direct -7884 Aug 01 j 06:50 22° m 15'08 minimum elong -7878 Nov 24 j 12:14 7°**2**57'43 0°44'48 evening set -7884 Oct 26 j 11:23 24° Mp 07'26 max. Earth dist. -7878 Nov 25 j 12:22 8°**೨**00'00 31.02665 AU morning rise -7878 Dec 10 j 04:17 8°**£**32'56 conjunction -7884 Nov 10 j 19:47 24° m/41'59 1°16'24 retrograde -7877 Mar 11 j 12:10 10°**△**31'22 -7884 Nov 10 j 19:48 24° m/41'59 1°16'30 -7877 May 31 j 13:49 9°**2**06'19 0°44'52 minimum elong opposition -7884 Nov 11 j 16:52 24° m 43'59 31.08601 AU -7877 May 30 j 13:28 9°**೨**08'00 29.02329 AU max. Earth dist. min. Earth dist. -7884 Nov 26 j 07:41 25° Mp 16'52 -7877 Aug 17 j 11:11 7°**-**43'38 morning rise direct -7883 Feb 25 j 10:14 27° Mp 14'59 -7877 Nov 11 j 10:33 9°**£**35'37 retrograde evening set 25° m 50'22 1°18'55 opposition -7883 May 17 j 10:54 min. Earth dist. -7883 May 16 j 14:13 25° m 51'47 29.08209 AU conjunction -7877 Nov 26 j 23:18 10°**2**10'30 0°39'16 direct -7883 Aug 03 j 18:23 24° m 27'47 minimum elong -7877 Nov 26 i 23:19 10° № 10'30 0°39'14 evening set -7883 Oct 28 j 21:20 26° m 20'01 max. Earth dist. -7877 Nov 28 i 00:33 10° **2**12'53 31.01917 AU morning rise -7877 Dec 12 i 15:58 10°**-**45'46 -7883 Nov 13 i 06:29 26° m 54'38 1°11'22 retrograde -7876 Mar 13 i 00:03 12°**£**44'16 conjunction -7883 Nov 13 i 06:30 26° m 54'38 1°11'28 -7876 Jun 01 j 02:09 11°**2**20'52 29.01623 AU minimum elong min. Earth dist. -7883 Nov 14 j 04:26 26° m 56'42 31.07645 AU opposition -7876 Jun 02 j 02:13 11°**2**19'12 0°38'53 max. Earth dist. -7883 Nov 28 j 18:59 27° m 29'34 9°**£**56'33 morning rise direct -7876 Aug 18 j 20:36 retrograde -7882 Feb 27 j 23:15 29° m 27'44 evening set -7876 Nov 12 j 20:54 11°**≏**48'31 opposition -7882 May 19 j 23:32 28° m 03'03 1°13'29 min. Earth dist. -7882 May 19 j 01:32 28° Mp 04'33 29.07191 AU conjunction -7876 Nov 28 j 10:19 12°**2**23'27 0°33'39 -7882 Aug 06 j 06:56 26° Mp 40'26 minimum elong -7876 Nov 28 j 10:19 12°**₽**23'27 0°33'36 direct -7882 Oct 31 j 07:27 28° m/32'37 -7876 Nov 29 j 11:58 12°**♀**25'52 31.01263 AU evening set max. Earth dist. 12°**♀**58'45 morning rise -7876 Dec 14 j 03:38 -7882 Nov 15 j 17:05 29° Mp 07'16 1°06'14 -7875 Mar 15 j 14:44 conjunction retrograde 14°**♀**57'20 minimum elong -7882 Nov 15 j 17:05 29° Mp 07'16 1°06'18 opposition -7875 Jun 04 j 14:32 13°**≏**32'15 0°32'51 max. Earth dist. -7882 Nov 16 j 14:38 29° Mp 09'18 31.06594 AU min. Earth dist. -7875 Jun 03 j 13:10 13°**♀**34'00 29.00991 AU morning rise -7882 Dec 01 j 06:27 29° m 42'16 direct -7875 Aug 21 j 08:21 12°**£**09'37 -7882 Dec 09 j 10:27 0∘**⊽** evening set -7875 Nov 15 j 07:40 14°**£**01'36 retrograde -7881 Mar 02 j 11:14 1°**º**40′29 -7881 May 22 j 12:16 0° **2**15'42 1° 07'57 -7875 Nov 30 j 21:36 14°**△**36'35 0°27'59 opposition conjunction

min. Earth dist.

-7881 May 21 j 14:47

0°**2**17'10 29.06116 AU

-7875 Nov 30 j 21:36

minimum elong

14°**2**36'35 0°27'54

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7875 in astronomical counting style is the year 7876 BCE in historical counting style. -7875 Dec 01 i 23:20 14°**2**39'00 31.00643 AU behind sun begin -7869 Dec 14 j 14:36 27°**£**57'18 max. Earth dist. -7869 Dec 15 j 02:38 -7875 Dec 16 j 15:39 behind sun end 27°**♀**58'23 morning rise 15°**Ω**11'57 28°**2**00'14 30.95573 AU -7874 Mar 18 j 04:34 17°**♀**10'36 -7869 Dec 15 j 21:56 retrograde max. Earth dist. -7869 Dec 30 j 18:19 -7874 Jun 06 j 02:23 15°**♀**47'11 29.00378 AU min. Earth dist. 28°**♀**33'29 morning rise -7874 Jun 07 j 02:53 0°26'45 -7868 Feb 15 j 05:17 opposition 15°**≏**45'30 0°M direct -7874 Aug 23 j 19:06 14°**£**22'52 retrograde -7868 Mar 31 j 10:33 0°M32'18 evening set -7874 Nov 17 j 18:31 16°**£**14'52 -7868 May 16 j 18:19 30°**₹**Ω -7868 Jun 19 j 03:19 min. Earth dist. 29°**£**08'37 28.95069 AU conjunction -7874 Dec 03 j 09:12 16°**≏**49'54 0°22'16 opposition -7868 Jun 20 j 03:57 29°**2**06'54 -0°10'23 minimum elong -7874 Dec 03 j 09:12 16°**-**49′54 0°22'10 direct -7868 Sep 05 j 14:49 27°**-**44'04 max. Earth dist. -7874 Dec 04 j 11:40 16°**♀**52'24 31.00028 AU evening set -7868 Nov 30 j 14:29 29°**₽**36'03 -7874 Dec 19 j 03:46 -7868 Dec 11 j 08:10 morning rise 17°**₽**25'19 0°M retrograde -7873 Mar 20 j 18:19 19°**₽**24'02 -7868 Dec 16 j 08:33 opposition -7873 Jun 09 j 15:06 17°**≏**58'56 0°20'37 conjunction 0°M11'19 -0°12'34 min. Earth dist. -7873 Jun 08 j 13:36 18°**♀**00'41 28.99730 AU minimum elong -7868 Dec 16 j 08:33 0° M_11'19 0°12'46 direct -7873 Aug 26 j 07:16 16°**≏**36'18 behind sun begin -7868 Dec 16 j 04:29 0°M10'57 evening set -7873 Nov 20 j 05:41 18°**≏**28'19 behind sun end -7868 Dec 16 j 12:36 0°M11'41 max. Earth dist. -7868 Dec 17 j 10:37 0°M13'46 30.94511 AU conjunction -7873 Dec 05 j 20:45 19°**≏**03'24 0°16'30 morning rise -7867 Jan 01 j 06:46 0°M47'00 minimum elong -7873 Dec 05 j 20:46 19°**♀**03'24 0°16'23 retrograde -7867 Apr 02 j 21:49 2°M45'48 19°**≏**05'48 max. Earth dist. -7873 Dec 06 j 22:23 30.99338 AU opposition -7867 Jun 22 j 15:56 1°ML20'20 -0°16'34 morning rise -7873 Dec 21 i 16:05 19°**♀**38'52 min. Earth dist. -7867 Jun 21 i 15:57 1°ML22'01 28.94040 AU retrograde -7872 Mar 22 i 07:52 21°**♀**37'38 -7867 Aug 26 j 21:03 30°R<u>₽</u> min. Earth dist. -7872 Jun 10 j 02:55 20°**2**14'11 28.98998 AU direct -7867 Sep 08 i 00:59 29°**£**57'26 opposition -7872 Jun 11 j 03:25 20°**♀**12'30 0°14'26 -7867 Sep 20 j 05:22 0°M 18°**♀**49'52 -7867 Dec 03 j 02:05 1°M49'25 direct -7872 Aug 27 j 17:46 evening set -7872 Nov 21 j 16:51 20°**£**41'53 evening set -7867 Dec 18 j 20:44 2°ML24'44 -0°18'19 conjunction -7872 Dec 07 j 08:41 21°**♀**17'01 0°10'44 -7867 Dec 18 j 20:44 conjunction minimum elong 2°M,24'44 0°18'33 2°M27'11 30.93531 AU -7872 Dec 07 j 08:41 -7867 Dec 19 j 22:52 minimum elong 21°**♀**17'01 0°10'36 max. Earth dist. -7872 Dec 07 j 03:39 -7866 Jan 03 j 19:29 behind sun begin 21°**₽**16'33 morning rise 3°M00'26 -7872 Dec 07 j 13:43 21°**2**17'28 -7866 Apr 05 j 11:27 behind sun end retrograde 4°ML59'15 max. Earth dist. -7872 Dec 08 j 11:15 21°**2**19'31 30.98553 AU min. Earth dist. -7866 Jun 24 j 02:40 3°MJ35'29 28.93114 AU -7872 Dec 23 j 04:27 21°**♀**52'31 -7866 Jun 25 j 03:38 3°M33'44 -0°22'44 morning rise opposition -7871 Mar 24 j 21:09 23°**♀**51'19 -7866 Sep 10 j 12:36 2°M10'46 retrograde direct -7871 Jun 13 j 15:40 22°**£**26'09 -7866 Dec 05 j 13:52 4°ML02'48 opposition 0°08'14 evening set min. Earth dist. -7871 Jun 12 j 14:43 22°**-**27'52 28.98148 AU direct -7871 Aug 30 j 06:40 21°**♀**03'29 conjunction -7866 Dec 21 j 08:57 4°M38'08 -0°24'04 -7871 Nov 24 j 04:12 22°**♀**55'30 minimum elong -7866 Dec 21 j 08:57 4°M38'08 0°24'19 evening set max. Earth dist. -7866 Dec 22 j 10:58 conjunction -7871 Dec 09 j 20:29 23°**2**30'40 0°04'57 morning rise -7865 Jan 06 j 08:17 5°M13'53 -7871 Dec 09 j 20:29 23°**♀**30'40 -7865 Apr 08 j 00:10 7°M12'43 minimum elong 0°04'48 retrograde -7871 Dec 09 j 14:09 23°**♀**30'06 -7865 Jun 27 j 15:29 5°M47'10 -0°28'52 behind sun begin opposition -7871 Dec 10 j 02:50 23°**£**31'14 min. Earth dist. -7865 Jun 26 j 15:22 5°ML48'51 28.92308 AU behind sun end -7871 Dec 10 j 21:49 23°**೨**33'03 30.97650 AU -7865 Sep 12 j 23:00 4°M24'09 max. Earth dist. direct morning rise -7871 Dec 25 i 17:04 24°**♀**06'14 evening set -7865 Dec 08 i 01:32 6°M16'14 retrograde -7870 Mar 27 i 10:27 26°**♀**05'03 -7865 Dec 23 j 21:14 6°M51'37 -0°29'47 min. Earth dist. -7870 Jun 15 i 03:32 24°**2**41'30 28.97189 AU conjunction opposition -7870 Jun 16 i 03:58 24°**₽**39'48 0°02'02 minimum elong -7865 Dec 23 i 21:14 6°ML51'37 0°30'03 direct -7870 Sep 01 i 17:00 23°**£**17'06 max. Earth dist. -7865 Dec 25 i 00:01 6°ML54'08 30.91913 AU -7870 Oct 13 j 23:04 23°**£**47'31 -7864 Jan 08 i 20:56 7°M27'24 desc. node morning rise -7870 Nov 26 j 15:37 25°**£**09'06 -7864 Apr 09 j 13:50 9°M26'15 evening set retrograde -7864 Jun 28 j 01:50 8°ML02'27 28.91633 AU min. Earth dist. 8°M00'42 -0°34'57 conjunction -7870 Dec 12 j 08:38 25° **△**44'18 -0°00'58 opposition -7864 Jun 29 j 03:06 minimum elong -7870 Dec 12 j 08:37 25°**-**44′18 0°01'08 direct -7864 Sep 14 j 10:57 6°M37'39 behind sun begin -7870 Dec 12 j 02:08 25°**-**43'43 evening set -7864 Dec 09 j 13:30 8°M29'48 behind sun end -7870 Dec 12 j 15:07 25°**Ω**44'53 -7870 Dec 13 j 10:45 25°**≏**46'45 30.96636 AU -7864 Dec 25 j 09:33 9°M05'13 -0°35'27 max. Earth dist. conjunction 26° 219'54 -7864 Dec 25 j 09:33 morning rise -7870 Dec 28 j 05:39 minimum elong 9°M05'13 0°35'44 28°**£**18'42 -7864 Dec 26 j 11:38 9° 11.07'40 30.91299 AU retrograde -7869 Mar 29 j 21:08 max. Earth dist. -7863 Jan 10 j 09:52 9°**M**L41'03 opposition -7869 Jun 18 j 15:56 26°**£**53'24 -0°04'11 morning rise min. Earth dist. -7869 Jun 17 j 15:42 26°**♀**55'05 28.96134 AU retrograde -7863 Apr 12 j 03:53 11°M39'55 direct -7869 Sep 04 j 04:50 25°**♀**30'38 opposition -7863 Jul 01 j 14:51 10°M14'22 -0°41'00 evening set -7869 Nov 29 j 03:07 27°**£**22'37 min. Earth dist. -7863 Jun 30 j 14:25 10°M16'05 28.91088 AU direct -7863 Sep 16 j 21:17 8°M51'20 -7869 Dec 14 j 20:36 27°**⊆**57'51 -0°06'47 -7863 Dec 12 j 01:26 10°M43'33 conjunction evening set -7869 Dec 14 j 20:37 27°**♀**57'51 0°06'59 minimum elong

Planetary Phen	omena of Neptune 1	from -7900	through -7398	(UT), Astrodiens	st AG 18-Feb-2025	14:23,	page 4
Attention, astronom	nical year style is used: Th	ne year -7863 ir	n astronomical cou	inting style is the year	7864 BCE in historical of	counting style.	
conjunction	-7863 Dec 27 j 22:10	11° M .19'01	-0°41'05	retrograde	-7856 Apr 27 j 22:01	27°M20'25	
minimum elong	-7863 Dec 27 j 22:10	11° M .19'01	0°41'24	opposition	-7856 Jul 16 j 23:49	25°M54'55	-1°21'12
max. Earth dist.	-7863 Dec 29 j 01:22	11° M 21'34	30.90800 AU	min. Earth dist.	-7856 Jul 16 j 02:49	25°M56'24	28.87219 AU
morning rise	-7862 Jan 12 j 22:49	11° M 54'52		direct	-7856 Oct 02 j 02:20	24°M31'37	
retrograde	-7862 Apr 14 j 18:00	13°M53'47		evening set	-7856 Dec 27 j 18:26	26°M24'22	
min. Earth dist.	-7862 Jul 03 j 01:37		28.90620 AU	evening sec	7000 BCC 27 J 10:20	20 1102 : 22	
opposition	-7862 Jul 04 j 02:28	12°M28'16		conjunction	-7855 Jan 12 j 18:08	27°ML00'02	-1°18'22
direct	-7862 Sep 19 j 10:08	11°M05'14	0 40 37	minimum elong	-7855 Jan 12 j 18:07	27° ML00'02	
evening set	-7862 Dec 14 j 13:52	12°M57'32		max. Earth dist.	-7855 Jan 13 j 17:49		30.86783 AU
evening set	-7602 Dec 14 j 15.52	12 1103/32		morning rise		27°MJ36'03	30.00703 AC
:	79(2 D 20 : 10.52	12011 22102	0946120	Č	-7855 Jan 28 j 21:23		
conjunction	-7862 Dec 30 j 10:53	13°M33'02		retrograde	-7855 Apr 30 j 11:20	29°M34'53	1027121
minimum elong	-7862 Dec 30 j 10:53	13°M33'02		opposition	-7855 Jul 19 j 11:01	28°M09'21	
max. Earth dist.	-7862 Dec 31 j 12:47		30.90357 AU	min. Earth dist.	-7855 Jul 18 j 13:26		28.86516 AU
morning rise	-7861 Jan 15 j 12:07	14°M08'56		direct	-7855 Oct 04 j 14:30	26°M45'57	
	-7861 Feb 09 j 08:59	15° M		evening set	-7855 Dec 30 j 07:35	28°M38'46	
retrograde	-7861 Apr 17 j 07:32	16°M07'52					
	-7861 Jun 26 j 00:28	15°RM₊		conjunction	-7854 Jan 15 j 07:31	29° ™ 14'27	-1°23'17
opposition	-7861 Jul 06 j 14:01	14°M42'23	-0°52'55	minimum elong	-7854 Jan 15 j 07:30	29°M14'27	1°23'43
min. Earth dist.	-7861 Jul 05 j 13:50	14° M 44'04	28.90199 AU	max. Earth dist.	-7854 Jan 16 j 06:01	29°M16'34	30.86103 AU
direct	-7861 Sep 21 j 20:12	13°M19'21		morning rise	-7854 Jan 31 j 11:12	29°M50'29	
	-7861 Dec 11 j 16:17	15°M			-7854 Feb 04 j 20:16	0° √	
evening set	-7861 Dec 17 j 02:17	15°M11'45		retrograde	-7854 May 03 j 00:42	1° х 49'16	
e renning see	7001 Bee 17 J 02.17	10 110/11 10		opposition	-7854 Jul 21 j 22:21	0° ≯ 23'42	-1°31'42
conjunction	-7860 Jan 01 j 23:52	15° M 47'17	-0°52'09	min. Earth dist.	-7854 Jul 21 j 01:59		28.85891 AU
minimum elong	-7860 Jan 01 j 23:51	15°M47'17		iiiii. Laitii dist.	-7854 Aug 05 j 02:40	30°RM	20.03071 AU
•				4:4	• •	29°ML00'12	
max. Earth dist.	-7860 Jan 03 j 02:26		30.89922 AU	direct	-7854 Oct 07 j 01:47		
morning rise	-7860 Jan 18 j 01:20	16°M23'12			-7854 Dec 06 j 16:45	0° ∡ 7	
retrograde	-7860 Apr 18 j 19:30	18°M22'10		evening set	-7853 Jan 01 j 20:41	0° ≯ 753'06	
min. Earth dist.	-7860 Jul 07 j 01:54		28.89750 AU				
opposition	-7860 Jul 08 j 01:37	16°M56'43	-0°58'46	conjunction	-7853 Jan 17 j 21:07	1° ≯ ¹28'48	-1°28'04
direct	-7860 Sep 23 j 07:52	15°M33'40		minimum elong	-7853 Jan 17 j 21:07	1° ∡ 728'48	1°28'30
evening set	-7860 Dec 18 j 14:50	17°M26'09		max. Earth dist.	-7853 Jan 18 j 20:22	1° ∡ ³30′59	30.85521 AU
				morning rise	-7853 Feb 03 j 00:53	2° ҂ 104′50	
conjunction	-7859 Jan 03 j 12:48	18° M 01'43	-0°57'35	retrograde	-7853 May 05 j 13:59	4° ҂ ¹03'33	
minimum elong	-7859 Jan 03 j 12:47	18°M01'43	0°57'56	opposition	-7853 Jul 24 j 09:23	2° ҂ ³37'59	-1°36'45
max. Earth dist.	-7859 Jan 04 j 14:01	18° M 04'06	30.89449 AU	min. Earth dist.	-7853 Jul 23 j 12:44	2° ҂ ³39′26	28.85375 AU
morning rise	-7859 Jan 19 j 14:46	18° M 37'41		direct	-7853 Oct 09 j 15:10	1° ∡ 14'25	
retrograde	-7859 Apr 21 j 10:01	20°M36'39		evening set	-7852 Jan 04 j 09:58	3° ₹ 07'24	
opposition	-7859 Jul 10 j 13:17	19°ML11'13	-1°04'31	evening set	7032 Jun 04 J 07.30	3 × 0/24	
min. Earth dist.	-7859 Jul 09 j 13:42		28.89244 AU	conjunction	-7852 Jan 20 j 10:34	3° ∡ ¹43'07	10221/12
	·	17°M48'08	20.09244 AU	v	-7852 Jan 20 j 10:34		
direct	-7859 Sep 25 j 17:58			minimum elong	·	3°×743'07	
evening set	-7859 Dec 21 j 03:41	19° M 40'42		max. Earth dist.	-7852 Jan 21 j 08:26		30.85072 AU
		W		morning rise	-7852 Feb 05 j 14:45	4° ≯ 19'10	
conjunction	-7858 Jan 06 j 02:07	20°M16'18		retrograde	-7852 May 07 j 03:28	6° ∡ 17'50	
minimum elong	-7858 Jan 06 j 02:06	20°M16'18		opposition	-7852 Jul 25 j 20:35	4° ≯ 52'16	-1°41'39
max. Earth dist.	-7858 Jan 07 j 03:18		30.88881 AU	min. Earth dist.	-7852 Jul 25 j 00:30		28.85014 AU
morning rise	-7858 Jan 22 j 04:24	20°M52'17		direct	-7852 Oct 11 j 01:39	3° ∡ ¹28'38	
retrograde	-7858 Apr 23 j 21:20	22°M51'14		evening set	-7851 Jan 05 j 23:05	5° ≯ 21'43	
min. Earth dist.	-7858 Jul 12 j 02:37	21°M27'22	28.88634 AU				
opposition	-7858 Jul 13 j 00:50	21°M25'48	-1°10'11	conjunction	-7851 Jan 22 j 00:09	5° ∡ 757′27	-1°37'15
direct	-7858 Sep 28 j 04:13	20°M02'40		minimum elong	-7851 Jan 22 j 00:09	5° ∡¹ 57'27	1°37'41
evening set	-7858 Dec 23 j 16:36	21°M55'18		max. Earth dist.	-7851 Jan 22 j 22:49	5° ₹ ¹59'35	30.84772 AU
•	v			morning rise	-7851 Feb 07 j 04:25	6° х ³33'31	
conjunction	-7857 Jan 08 j 15:30	22°M30'55	-1°08'11	retrograde	-7851 May 09 j 16:16	8° ≯ 32'08	
minimum elong	-7857 Jan 08 j 15:29	22°M30'55		min. Earth dist.	-7851 Jul 27 j 11:58		28.84786 AU
max. Earth dist.	-7857 Jan 09 j 15:49		30.88233 AU	opposition	-7851 Jul 28 j 07:44	7° ∡ ¹06'36	
morning rise	-7857 Jan 24 j 18:09	23°M06'55	55.00 2 55 AO	direct	-7851 Oct 13 j 14:04	5° ₹ 142'57	1 10 23
•	·	25°M05'51				7° х ¹36′08	
retrograde	-7857 Apr 26 j 10:14		1015145	evening set	-7850 Jan 08 j 12:36	/ × 30.08	
opposition	-7857 Jul 15 j 12:19	23°M40'23			7050 1 21:12 5:	00 71115	1041127
min. Earth dist.	-7857 Jul 14 j 13:50		28.87948 AU	conjunction	-7850 Jan 24 j 13:54	8°×111'53	
direct	-7857 Sep 30 j 16:11	22°M17'10		minimum elong	-7850 Jan 24 j 13:53	8° ∡ 11'53	
evening set	-7857 Dec 26 j 05:31	24°M09'53		max. Earth dist.	-7850 Jan 25 j 11:11		30.84614 AU
				morning rise	-7850 Feb 09 j 18:31	8° ∡ 147'58	
conjunction	-7856 Jan 11 j 04:42	24°M45'31	-1°13'20	retrograde	-7850 May 12 j 06:53	10° ∡ 46′33	
minimum elong	-7856 Jan 11 j 04:41	24°M45'31	1°13'44	opposition	-7850 Jul 30 j 18:42	9° х 21′03	-1°51'00
max. Earth dist.	-7856 Jan 12 j 04:18	24°M47'44	30.87506 AU	min. Earth dist.	-7850 Jul 29 j 23:01	9° ∡ ¹22'27	28.84693 AU
morning rise	-7856 Jan 27 j 07:43	25°M21'31		direct	-7850 Oct 16 j 00:53	7° ∡ 757'22	
	-				-		

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7849 in astronomical counting style is the year 7850 BCE in historical counting style. 9°**х** 50'41 opposition -7849 Jan 11 j 02:14 -7843 Aug 14 j 23:58 25°**₹**06'01 -2°18'07 evening set min. Earth dist. -7843 Aug 14 j 10:39 25°**✗**06'57 28.83776 AU -7849 Jan 27 j 03:52 10°**₹**26'27 -1°45'50 -7843 Oct 31 j 08:46 23°**х** 41'57 conjunction direct -7849 Jan 27 j 03:51 10°**∡**126'27 1°46'18 -7842 Jan 27 j 04:41 25°**∡**136′07 minimum elong evening set -7849 Jan 28 j 01:19 10°**₹**28'28 30.84551 AU max. Earth dist. -7849 Feb 12 j 08:34 -7842 Feb 12 j 08:06 26°**₹**11'59 -2°10'35 morning rise 11°×7'02'33 conjunction 13°**∡**¹01'06 -7842 Feb 12 j 08:05 26° ₹11'59 2°11'07 retrograde -7849 May 14 j 18:16 minimum elong 11°**∡**36′59 28.84672 AU -7842 Feb 12 j 23:12 -7849 Aug 01 j 11:27 min. Earth dist. max. Earth dist. 26° ₹ 13'24 30.83465 AU opposition -7849 Aug 02 j 05:51 11°**∡** 35′41 -1°55′26 morning rise -7842 Feb 28 j 13:35 26°**х** 48′05 direct -7849 Oct 18 j 11:29 10°**х** 11′59 retrograde -7842 May 30 j 13:26 28°×746'10 evening set -7848 Jan 13 j 15:50 12°**₹**05'25 opposition -7842 Aug 17 j 10:41 27°**∡**1'01 -2°21'12 -7842 Aug 16 j 22:11 min. Earth dist. 27°**₹**21'54 28.83497 AU -7848 Jan 29 j 17:44 -7842 Nov 02 j 22:15 conjunction 12°**∡**′41'13 -1°49'54 direct 25°**х** 56′52 -7841 Jan 29 j 19:03 minimum elong -7848 Jan 29 j 17:43 12°**∡**41'12 1°50'24 evening set 27°**х** 51′09 max. Earth dist. -7848 Jan 30 j 14:16 12°**∡**′43'08 30.84553 AU morning rise -7848 Feb 14 j 22:38 13°**∡**17'18 conjunction -7841 Feb 14 j 22:31 28°**∡**¹27'01 -2°13'22 retrograde -7848 May 16 j 07:39 15°**∡**15'50 minimum elong -7841 Feb 14 j 22:31 28°**₹**27'01 2°13'52 opposition -7848 Aug 03 j 16:52 13°**₹**50'29 -1°59'41 max. Earth dist. -7841 Feb 15 j 11:48 28°**₹**'28'16 30.83221 AU min. Earth dist. -7848 Aug 02 j 22:22 13°**₹**51'48 28.84684 AU morning rise -7841 Mar 03 j 04:12 29°**х** 03′06 direct -7848 Oct 19 j 22:55 12°**∡**¹26'46 -7841 Mar 31 j 08:44 0°る evening set -7847 Jan 15 j 05:49 14°**х** 20′21 retrograde -7841 Jun 02 j 03:41 1°る01'05 -7841 Aug 05 i 14:49 30°R.✓ conjunction -7847 Jan 31 i 07:54 14°**∡** 56′09 -1°53′48 opposition -7841 Aug 19 j 21:27 29° x 35'57 -2°24'04 minimum elong -7847 Jan 31 i 07:54 14°**₹**56'09 1°54'17 min. Earth dist. -7841 Aug 19 i 09:11 29° ₹36'50 28.83307 AU max. Earth dist. -7847 Feb 01 i 03:30 14°**₹**'57'59 30.84539 AU direct -7841 Nov 05 j 10:17 28°**х** 11′44 -7847 Feb 16 j 12:58 15°**х** 32′15 -7840 Jan 29 j 13:42 0°궁 morning rise -7847 May 18 j 19:52 17°**х** 30′45 -7840 Feb 01 j 09:09 0°806'06 retrograde evening set -7847 Aug 05 j 11:22 16°**₹**06'39 28.84659 AU min. Earth dist. -7847 Aug 06 j 04:00 16°**₹**05'29 -2°03'46 -7840 Feb 17 j 12:53 0°る41'59 -2°15'56 conjunction opposition 14°**∡**°41'43 -7847 Oct 22 j 08:36 -7840 Feb 17 j 12:52 0°る41'59 2°16'28 direct minimum elong 0°る43'15 30.83067 AU -7846 Jan 17 j 19:51 -7840 Feb 18 j 02:18 16°**х** 35′26 max. Earth dist. evening set -7840 Mar 04 j 18:29 1°る18'04 morning rise 3°**ට**15'57 -7846 Feb 02 j 22:20 17°**∡**11'16 -1°57'31 -7840 Jun 03 j 14:44 conjunction retrograde -7840 Aug 21 j 08:16 1°る50'51 -2°26'42 -7846 Feb 02 j 22:19 17°**₹**11'16 1°58'02 minimum elong opposition 1°る51'38 28.83221 AU -7846 Feb 03 j 17:13 17°**尽** 13'02 30.84477 AU -7840 Aug 20 j 21:15 max. Earth dist. min. Earth dist. 17°**∡**¹47'22 -7846 Feb 19 j 03:28 -7840 Nov 06 j 21:54 0°る26'33 morning rise direct 19°**∡**¹45'49 -7846 May 21 j 09:10 -7839 Feb 02 j 23:27 2°る21'02 retrograde evening set opposition -7846 Aug 08 j 15:02 18°**∡**¹20'35 -2°07'39 min. Earth dist. -7846 Aug 07 j 22:22 18°**✗**21'46 28.84550 AU conjunction -7839 Feb 19 j 03:21 2°る56'56 -2°18'18 direct -7846 Oct 24 j 20:49 16°**₹**56'46 minimum elong -7839 Feb 19 j 03:21 2°る56'56 2°18'49 -7845 Jan 20 j 10:07 18°**∡**′50'38 max. Earth dist. -7839 Feb 19 j 15:38 2°る58'05 30.83053 AU evening set -7839 Mar 07 j 09:05 3°る33'01 morning rise -7845 Feb 05 j 12:40 19°**∡**¹26'28 -2°01'04 -7839 Jun 06 j 04:09 5°る30'47 conjunction retrograde -7845 Feb 05 j 12:40 19°**∡**¹26'28 2°01'34 -7839 Aug 23 j 18:49 4°る05'44 -2°29'07 minimum elong opposition -7845 Feb 06 j 05:40 19°**✗**28'03 30.84307 AU min. Earth dist. -7839 Aug 23 j 07:36 4°る06'32 28.83278 AU max. Earth dist. 20°**х** 02'34 2°る41'23 morning rise -7845 Feb 21 i 18:00 direct -7839 Nov 09 i 09:38 -7845 May 23 j 21:54 retrograde 22°**尽**00'57 evening set -7838 Feb 05 j 13:53 4°る35'59 20°**х** 36′49 28.84347 AU min. Earth dist. -7845 Aug 10 j 11:15 20° **x** 35'45 -2°11'20 -7838 Feb 21 i 17:57 5°**ට**11'53 -2°20'27 opposition -7845 Aug 11 i 02:07 conjunction direct -7845 Oct 27 i 08:06 19°**√**11'52 minimum elong -7838 Feb 21 i 17:57 5°**궁**11'53 2°21'00 -7844 Jan 23 j 00:14 21°×705'50 max. Earth dist. -7838 Feb 22 j 05:35 5°る12'59 30.83163 AU evening set -7838 Mar 09 j 23:42 5°₹47'58 morning rise -7844 Feb 08 j 03:12 21° ₹ 41'41 -2°04'26 -7838 Jun 08 j 16:14 7°る45'39 conjunction retrograde 6°පි20'40 -2°31'18 minimum elong -7844 Feb 08 i 03:11 21°**х** 41'41 2°04'57 opposition -7838 Aug 26 j 05:36 6°る21'21 28.83460 AU max. Earth dist. -7844 Feb 08 j 20:09 21°**✗**′43′16 30.84061 AU min. Earth dist. -7838 Aug 25 j 20:01 morning rise -7844 Feb 24 j 08:29 22°**∡**17'47 direct -7838 Nov 11 j 19:14 4°る56'16 retrograde -7844 May 25 j 10:54 24°**∡**16′05 evening set -7837 Feb 08 j 04:15 6°る51'00 -7844 Aug 12 j 13:02 22°**x** 50'55 -2°14'50 opposition -7844 Aug 11 j 22:30 22°**尽**51'57 28.84069 AU -7837 Feb 24 j 08:32 7°る26'55 -2°22'24 min. Earth dist. conjunction -7844 Oct 28 j 21:43 21°**х** 26'57 -7837 Feb 24 j 08:32 7°る26'54 2°22'55 direct minimum elong -7843 Jan 24 j 14:26 23°**×**21'01 -7837 Feb 24 j 19:37 7°る27'57 30.83405 AU evening set max. Earth dist. morning rise -7837 Mar 12 j 14:14 8°**る**02'59 conjunction -7843 Feb 09 j 17:29 23°**₹**56'52 -2°07'36 retrograde -7837 Jun 11 j 04:11 10°る00'34 minimum elong -7843 Feb 09 j 17:28 23° 🖈 56'52 2°08'07 opposition -7837 Aug 28 j 16:10 8°**ප**35'41 -2°33'16 max. Earth dist. -7843 Feb 10 j 08:24 23°**≯**58'16 30.83765 AU min. Earth dist. -7837 Aug 28 j 06:19 8°る36'23 28.83747 AU -7843 Feb 25 j 23:03 24°**∡**³32'58 -7837 Nov 14 j 07:26 7°る11'14 morning rise direct -7843 May 28 j 00:24 26°**₹**31'10 -7836 Feb 10 j 18:49 9°る06'07 retrograde evening set

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7836 in astronomical counting style is the year 7837 BCE in historical counting style. 9°**ප්**42'02 -2°24'07 -7836 Feb 26 i 23:08 direct -7830 Nov 29 j 22:04 22°る56'41 conjunction -7836 Feb 26 j 23:08 9°**ප්**42'02 2°24'40 evening set -7829 Feb 27 j 01:41 24°る52'18 minimum elong -7836 Feb 27 j 08:41 9°る42'55 30.83725 AU max. Earth dist. -7836 Mar 14 j 04:55 10°る18'05 -7829 Mar 15 j 06:58 25°る28'14 -2°29'54 conjunction morning rise -7829 Mar 15 j 06:58 -7836 Jun 12 j 15:53 12°る15'36 25°る28'14 2°30'24 retrograde minimum elong -7836 Aug 30 j 02:52 -7829 Mar 15 j 08:32 25°る28'23 30.84983 AU opposition 10°る50'48 -2°34'59 max. Earth dist. -7836 Aug 29 j 18:44 -7829 Mar 31 j 12:27 min. Earth dist. 10°る51'23 28.84103 AU morning rise 26°**පි**04'13 -7829 Jun 29 j 08:09 28°る00'47 direct -7836 Nov 15 j 18:04 9°**ප**26'19 retrograde -7835 Feb 12 j 09:18 evening set 11°**る**21'20 opposition -7829 Sep 15 j 05:09 26°る36'19 -2°40'18 min. Earth dist. -7829 Sep 15 j 04:32 26°る36'21 28.85250 AU conjunction -7835 Feb 28 j 13:57 11°る57'16 -2°25'37 direct -7829 Dec 02 j 08:51 25°る11'19 -7835 Feb 28 j 13:56 11°る57'16 2°26'08 -7828 Feb 29 j 16:11 27°る06'59 minimum elong evening set -7835 Feb 28 j 23:20 max. Earth dist. 11°る58'08 30.84086 AU morning rise -7835 Mar 16 j 19:37 12°る33'19 conjunction -7828 Mar 16 j 21:37 27°る42'56 -2°29'49 retrograde -7835 Jun 15 j 04:23 14°る30'43 minimum elong -7828 Mar 16 j 21:37 27°る42'56 2°30'19 opposition -7835 Sep 01 j 13:30 13°る06'01 -2°36'28 max. Earth dist. -7828 Mar 16 j 22:23 27°る43'00 30.85130 AU min. Earth dist. -7835 Sep 01 j 05:52 13°る06'33 28.84447 AU morning rise -7828 Apr 02 j 03:02 28°る18'54 direct -7835 Nov 18 j 06:54 11°る41'30 -7828 May 31 j 14:32 evening set -7834 Feb 15 j 00:12 13°る36'39 retrograde -7828 Jun 30 j 19:41 0°≈15'18 -7828 Jul 31 j 05:08 30°Rる conjunction -7834 Mar 03 j 04:48 14°る12'34 -2°26'54 opposition -7828 Sep 16 j 15:25 28°る50'53 -2°40'06 minimum elong -7834 Mar 03 j 04:48 14°る12'34 2°27'25 min. Earth dist. -7828 Sep 16 j 14:34 28°る50'56 28.85446 AU max. Earth dist. -7834 Mar 03 j 11:51 14°る13'14 30.84402 AU direct -7828 Dec 03 j 21:41 27°る25'48 morning rise -7834 Mar 19 j 10:35 14°る48'37 evening set -7827 Mar 03 i 06:44 29°る21'34 retrograde -7834 Jun 17 j 17:36 16°**ප**45'56 -7834 Sep 04 j 00:11 15°る21'17 -2°37'42 -7827 Mar 19 j 12:11 29°る57'31 -2°29'31 opposition conjunction -7834 Sep 03 j 18:01 15°る21'43 28.84740 AU -7827 Mar 19 j 12:11 29°る57'31 2°29'59 min. Earth dist. minimum elong -7834 Nov 20 j 17:50 13°る56'43 max. Earth dist. -7827 Mar 19 j 11:36 29°る57'27 30.85385 AU direct -7833 Feb 17 j 14:56 15°**る**51'59 -7827 Mar 20 j 14:55 evening set 0°≈ -7827 Apr 04 j 17:37 0°≈33'28 morning rise 16°**ප්**27'55 -2°27'57 -7833 Mar 05 j 19:49 -7827 Jul 03 j 06:38 conjunction 2°≈29'43 retrograde -7833 Mar 05 j 19:49 opposition -7827 Sep 19 j 01:55 1°≈05'22 -2°39'39 minimum elong 16°**ප**27'55 2°28'27 -7833 Mar 06 j 02:39 -7827 Sep 19 j 02:31 1°≈05'19 28.85775 AU max. Earth dist. 16°る28'33 30.84643 AU min. Earth dist. -7833 Mar 22 j 01:24 17°**る**03'57 -7827 Nov 01 j 14:41 30°R₹ morning rise -7833 Jun 20 j 06:09 19°る01'08 -7827 Dec 06 j 08:16 29°る40'13 retrograde direct -7833 Sep 06 j 10:56 17°る36'32 -2°38'42 -7826 Jan 09 j 20:33 opposition 0°≈ -7833 Sep 06 j 05:56 17°る36'54 28.84931 AU -7826 Mar 05 j 21:12 min. Earth dist. evening set 1°≈36′05 direct -7833 Nov 23 j 07:51 16°**ප**11'54 evening set -7832 Feb 20 j 05:36 18°**る**07'16 conjunction -7826 Mar 22 j 02:52 2°≈12'02 -2°28'59 minimum elong -7826 Mar 22 j 02:53 2°≈12'02 2°29'27 conjunction -7832 Mar 07 j 10:29 18°る43'12 -2°28'46 max. Earth dist. -7826 Mar 22 j 02:16 2°≈11'59 30.85788 AU -7832 Mar 07 j 10:29 18°る43'12 2°29'17 -7826 Apr 07 j 08:06 2°≈47'58 minimum elong morning rise max. Earth dist. -7832 Mar 07 j 14:55 18°る43'37 30.84796 AU retrograde -7826 Jul 05 j 18:05 4°≈44'06 -7832 Mar 23 j 16:13 19°る19'13 -7826 Sep 21 j 12:13 3°≈19'49 -2°38'57 morning rise opposition -7832 Jun 21 j 19:49 21°**ප**16'16 min. Earth dist. -7826 Sep 21 j 12:57 3°≈19'46 28.86242 AU retrograde -7832 Sep 07 j 21:36 19°る51'42 -2°39'28 opposition direct -7826 Dec 08 j 20:34 1°≈54'38 min. Earth dist. -7832 Sep 07 i 17:16 19°る52'01 28.85048 AU evening set -7825 Mar 08 j 11:48 3°≈50'37 -7832 Nov 24 j 20:42 direct 18°る26'59 -7831 Feb 21 i 20:18 -7825 Mar 24 i 17:23 evening set 20°る22'26 conjunction 4°≈26'34 -2°28'13 minimum elong -7825 Mar 24 i 17:23 4°≈26'34 2°28'41 -7831 Mar 10 i 01:27 20° ප් 58'23 -2°29'22 max. Earth dist. -7825 Mar 24 i 15:01 4°≈26'20 30.86334 AU conjunction -7831 Mar 10 i 01:27 20°**ප**58'23 2°29'53 -7825 Apr 09 j 22:39 5°≈02'30 minimum elong morning rise max. Earth dist. -7831 Mar 10 j 05:28 20°る58'45 30.84872 AU -7825 Jul 08 j 06:13 6°≈58'30 retrograde 21°**る**34'23 morning rise -7831 Mar 26 j 07:00 opposition -7825 Sep 23 j 22:40 5°≈34'18 -2°38'01 5°≈34'11 28.86864 AU retrograde -7831 Jun 24 j 07:14 23°**る**31'16 min. Earth dist. -7825 Sep 24 j 00:19 -7825 Dec 11 j 07:04 opposition -7831 Sep 10 j 08:08 22°**る**06'44 -2°39'59 direct 4°≈09'07 6°**≈**05'12 min. Earth dist. -7831 Sep 10 j 05:36 22°る06'55 28.85100 AU evening set -7824 Mar 10 j 02:03 -7831 Nov 27 j 09:10 20°る41'55 direct -7830 Feb 24 j 11:05 22°る37'27 -7824 Mar 26 j 07:53 6°≈41'09 -2°27'14 evening set conjunction -7824 Mar 26 j 07:54 6°≈41'09 2°27'42 minimum elong -7830 Mar 12 j 16:17 23°**る**13'24 -2°29'45 6°≈40'58 30.87015 AU conjunction max. Earth dist. -7824 Mar 26 j 05:52 minimum elong -7830 Mar 12 j 16:17 23°る13'24 2°30'16 morning rise -7824 Apr 11 j 12:56 7°≈17'04 max. Earth dist. -7830 Mar 12 j 18:31 23°る13'36 30.84925 AU retrograde -7824 Jul 09 j 17:54 9°≈12'58 morning rise -7830 Mar 28 j 21:55 23°**る**49'23 opposition -7824 Sep 25 j 09:05 7°≈48'53 -2°36'50 retrograde -7830 Jun 26 j 20:56 25°る46'06 min. Earth dist. -7824 Sep 25 j 11:39 7°≈48'42 28.87579 AU -7830 Sep 12 j 18:37 24°る21'36 -2°40'16 -7824 Dec 12 j 20:45 6°≈23'42 opposition direct min. Earth dist. -7830 Sep 12 j 16:13 24°る21'47 28.85153 AU -7823 Mar 12 j 16:43 8°≈19'54 evening set

Planetary Phen	omena of Neptune f	from -7900	through -7398	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 7
	nical year style is used: Th						
conjunction	-7823 Mar 28 j 22:27	8° ≈ 55'52	-2°26'01	retrograde	-7817 Jul 26 j 05:43	24° ≈ 54'52	
minimum elong	-7823 Mar 28 j 22:27	8° ≈ 55'52	2°26'28	opposition	-7817 Oct 11 j 10:12	23° ≈ 31'19	-2°22'06
max. Earth dist.	-7823 Mar 28 j 18:15	8° ≈ 55'28	30.87773 AU	min. Earth dist.	-7817 Oct 11 j 19:37	23° ≈ 30'38	28.91835 AU
morning rise	-7823 Apr 14 j 03:34	9° ≈ 31'46		direct	-7817 Dec 29 j 11:43	22° ≈ 05'49	
retrograde	-7823 Jul 12 j 07:10	11° ≈ 27'33		evening set	-7816 Mar 28 j 21:57	24° ≈ 02'28	
opposition	-7823 Sep 27 j 19:21	10°≈03'35	-2°35'25		·		
min. Earth dist.	-7823 Sep 27 j 22:28	10°≈03'21	28.88352 AU	conjunction	-7816 Apr 14 j 03:50	24°≈38'25	-2°11'30
direct	-7823 Dec 15 j 09:07	8° ≈ 38'22		minimum elong	-7816 Apr 14 j 03:51	24°≈38'25	2°11'51
evening set	-7822 Mar 15 j 07:20	10° ≈ 34'42		max. Earth dist.	-7816 Apr 13 j 15:35	24°≈37'16	30.91930 AU
				morning rise	-7816 Apr 30 j 07:59	25°≈14'13	
conjunction	-7822 Mar 31 j 13:15	11° ≈ 10'40	-2°24'35	retrograde	-7816 Jul 27 j 16:07	27°≈08'52	
minimum elong	-7822 Mar 31 j 13:15	11° ≈ 10'40	2°25'01	opposition	-7816 Oct 12 j 20:35	25°≈45'20	-2°19'07
max. Earth dist.	-7822 Mar 31 j 08:50	11° ≈ 10′16	30.88538 AU	min. Earth dist.	-7816 Oct 13 j 06:59	25° ≈ 44'36	28.92371 AU
morning rise	-7822 Apr 16 j 18:04	11° ≈ 46'34		direct	-7816 Dec 30 j 23:04	24°≈19'46	
retrograde	-7822 Jul 14 j 18:57	13° ≈ 42'14		evening set	-7815 Mar 31 j 12:01	26°≈16'27	
opposition	-7822 Sep 30 j 05:56	12°≈18'22	-2°33'46		·		
min. Earth dist.	-7822 Sep 30 j 10:52	12°≈18'01	28.89098 AU	conjunction	-7815 Apr 16 j 18:02	26° ≈ 52'23	-2°08'37
direct	-7822 Dec 17 j 21:29	10° ≈ 53'10		minimum elong	-7815 Apr 16 j 18:03	26° ≈ 52'23	2°08'57
evening set	-7821 Mar 17 j 21:55	12° ≈ 49'35		max. Earth dist.	-7815 Apr 16 j 06:07	26°≈51'17	30.92509 AU
844				morning rise	-7815 May 02 j 21:52	27° ≈ 28'10	
conjunction	-7821 Apr 03 j 03:44	13° ≈ 25'33	-2°22'55	retrograde	-7815 Jul 30 j 01:50	29° ≈ 22'39	
minimum elong	-7821 Apr 03 j 03:44	13° ≈ 25'33		opposition	-7815 Oct 15 j 06:54	27° ≈ 59'10	-2°15'56
max. Earth dist.	-7821 Apr 02 j 21:20		30.89263 AU	min. Earth dist.	-7815 Oct 15 j 18:06		28.92991 AU
morning rise	-7821 Apr 19 j 08:33	14°≈01'26	30.07203110	direct	-7814 Jan 02 j 12:20	26°≈33'33	20.92991110
	-7821 May 18 j 15:05	15° ≈		evening set	-7814 Apr 03 j 02:11	28°≈30'16	
retrograde	-7821 Jul 17 j 09:05	15°≈56'57		evening sec	701111p1 05 J 02.11	20 10 00 10	
retrograde	-7821 Sep 16 j 16:32	15°R≈		conjunction	-7814 Apr 19 j 07:58	29° ≈ 06'11	-2°05'33
opposition	-7821 Oct 02 j 16:24	14°≈33'11	-2°31'52	minimum elong	-7814 Apr 19 j 07:59	29°≈06'11	
min. Earth dist.	-7821 Oct 02 j 21:32		28.89780 AU	max. Earth dist.	-7814 Apr 18 j 18:15		30.93203 AU
direct	-7821 Dec 20 j 11:03	13°≈07'57	20.05700710	morning rise	-7814 May 05 j 11:46	29° ≈ 41'57	30.93203 110
direct	-7820 Mar 17 j 11:16	15° ≈		morning risc	-7814 May 13 j 22:36	0° \	
evening set	-7820 Mar 19 j 12:29	15° ≈ 04'27		retrograde	-7814 Aug 01 j 14:05	1° ₩ 36'17	
evening set	7020 Will 19 J 12:29	13 70.0427		opposition	-7814 Oct 17 j 17:17	0° ₩ 12'50	-2°12'33
conjunction	-7820 Apr 04 j 18:24	15° ≈ 40'25	2021/03	min. Earth dist.	-7814 Oct 18 j 04:28		28.93753 AU
minimum elong	-7820 Apr 04 j 18:24	15°≈40'25		iiiii. Lattii dist.	-7814 Oct 25 j 06:51	30°R≈	20.73733 AO
max. Earth dist.	-7820 Apr 04 j 11:09		30.89899 AU	direct	-7813 Jan 05 j 00:11	28°≈47'12	
morning rise	-7820 Apr 20 j 23:00	16°≈16'17	30.07077 AO	direct	-7813 Mar 15 j 06:36	0° ∺	
retrograde	-7820 Jul 18 j 20:18	18°≈11'39		evening set	-7813 Apr 05 j 15:56	0° ∺ 43'57	
opposition	-7820 Oct 04 j 02:55	16°≈47'57	-2°20'45	evening set	-7613 Apr 03 j 13.30	0 7(4337	
min. Earth dist.	-7820 Oct 04 j 02:33		28.90376 AU	conjunction	-7813 Apr 21 j 21:49	1° ₩ 19'52	-2°02'17
direct	-7820 Dec 21 j 22:46	15°≈22'40	20.70370 AO	minimum elong	-7813 Apr 21 j 21:50	1° ★ 19'52	
evening set	-7819 Mar 22 j 03:01	17°≈19'14		max. Earth dist.	-7813 Apr 21 j 08:32		30.94033 AU
evening set	-7819 Wai 22 j 03.01	1/ ~1914		morning rise	-7813 May 08 j 01:14	1° X 55'36	30.94033 AO
conjunction	-7819 Apr 07 j 08:59	17° ≈ 55'12	2018158	retrograde	-7813 Aug 04 j 00:34	3° ∺ 49'48	
minimum elong	-7819 Apr 07 j 09:00	17°≈55'12		opposition	-7813 Oct 20 j 03:47	2° \ 26'27	-2°08'57
max. Earth dist.	-7819 Apr 07 j 00:20		30.90465 AU	min. Earth dist.	-7813 Oct 20 j 16:13		28.94645 AU
		17 ≈34 23 18°≈31'03	30.90403 AU	direct		2 \ \\ 23 34 1° \ \\ 00'48	26.94043 AU
morning rise retrograde	-7819 Apr 23 j 13:31 -7819 Jul 21 j 08:01	18°≈31'03 20°≈26'14		evening set	-7812 Jan 07 j 12:41 -7812 Apr 07 j 05:55	2°\(\frac{1}{2}\)57'36	
opposition	•		2027:25	evening set	-7812 Apr 07 J 03.33	2 N 3730	
min. Earth dist.	-7819 Oct 06 j 13:20 -7819 Oct 06 j 20:42	19°≈02'36	28.90889 AU	conjunction	-7812 Apr 23 j 11:36	3° ∺ 33'31	1058150
			28.90889 AU	•			
direct	-7819 Dec 24 j 12:23	17°≈37'15		minimum elong	-7812 Apr 23 j 11:37	3°₩33'31	
evening set	-7818 Mar 24 j 17:32	19° ≈ 33'51		max. Earth dist.	-7812 Apr 22 j 20:51		30.95008 AU
. ,.	7010 4 00:22 27	20000140	2017/41	morning rise	-7812 May 09 j 14:59	4° ₩ 09'14	
conjunction	-7818 Apr 09 j 23:27	20°≈09'49		retrograde	-7812 Aug 05 j 13:47	6° ₩ 03'18	2005110
minimum elong	-7818 Apr 09 j 23:28	20°≈09'49		opposition	-7812 Oct 21 j 14:01	4°) 40′02	
max. Earth dist.	-7818 Apr 09 j 13:16		30.90950 AU	min. Earth dist.	-7812 Oct 22 j 02:12		28.95665 AU
morning rise	-7818 Apr 26 j 03:50	20°≈45'39		direct	-7811 Jan 09 j 02:15	3° 光 14′24	
retrograde	-7818 Jul 23 j 19:00	22°≈40'40	2024:52	evening set	-7811 Apr 09 j 19:51	5° ¥ 11'17	20.060=2 :==
opposition	-7818 Oct 08 j 23:49	21°≈17'04		max. Earth dist.	-7811 Apr 25 j 10:37	5° 光 45'49	30.96072 AU
min. Earth dist.	-7818 Oct 09 j 08:56		28.91362 AU		most	#634 · -· ·	1055:
direct	-7818 Dec 26 j 23:17	19°≈51'39		conjunction	-7811 Apr 26 j 01:32	5° ¥ 47'12	
evening set	-7817 Mar 27 j 07:49	21° ≈ 48′16		minimum elong	-7811 Apr 26 j 01:33	5°) 47′12	1°55'29
				morning rise	-7811 May 12 j 04:35	6° ¥ 22'54	
conjunction	-7817 Apr 12 j 13:50	22° ≈ 24'14		retrograde	-7811 Aug 08 j 00:42	8° ₩ 16'51	
minimum elong	-7817 Apr 12 j 13:50	22° ≈ 24'14		opposition	-7811 Oct 24 j 00:34	6° ¥ 53'42	
max. Earth dist.	-7817 Apr 12 j 03:17		30.91429 AU	min. Earth dist.	-7811 Oct 24 j 14:31		28.96751 AU
morning rise	-7817 Apr 28 j 18:00	23° ≈ 00'03		direct	-7810 Jan 11 j 14:13	5° ¥ 28′06	

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7810 in astronomical counting style is the year 7811 BCE in historical counting style. opposition -7810 Apr 12 j 09:47 7°**¥**25′03 -7804 Nov 08 i 02:50 22°\(\)29'09 -1°28'44 evening set min. Earth dist. -7804 Nov 08 j 22:36 22°**升**27'45 29.02583 AU -7810 Apr 28 j 15:19 8°\u00'57 -1°51'24 -7803 Jan 27 j 03:52 21°\(\mathbf{H}\) 03'29 direct conjunction 8°**¥**00'57 1°51'39 -7810 Apr 28 j 15:20 -7803 Apr 28 j 09:33 23°\(\)00'34 minimum elong evening set -7810 Apr 27 j 23:23 7°**¥**59'28 30.97177 AU max. Earth dist. -7810 May 14 j 18:10 -7803 May 14 j 13:44 morning rise 8°**)**36'38 conjunction 23°**H**36'23 -1°20'33 -7810 Aug 10 j 12:49 23°**)** 36'23 1°20'40 -7803 May 14 j 13:45 retrograde 10°**)** 30′28 minimum elong -7810 Oct 26 j 11:02 -7803 May 13 j 15:09 opposition 9°**升**07'26 -1°57'02 max. Earth dist. 23°**₭**34'16 31.02831 AU 9°**₭**06'27 28.97835 AU min. Earth dist. -7810 Oct 27 j 00:52 morning rise -7803 May 30 j 14:36 24°**)** 11'54 direct -7809 Jan 14 j 03:36 7°**¥**41'52 retrograde -7803 Aug 25 j 16:11 26° ¥ 04'50 evening set -7809 Apr 14 j 23:45 9° \(\frac{1}{38}\)'52 opposition -7803 Nov 10 j 13:25 24°**)** 42′12 -1°23′32 -7803 Nov 11 j 08:44 max. Earth dist. -7809 Apr 30 j 11:58 10° **★**13'11 30.98240 AU min. Earth dist. 24°¥40′50 29.03248 AU -7802 Jan 29 j 18:07 direct 23°**¥**16'30 conjunction -7809 May 01 j 05:06 10°**升**14'46 -1°47'26 evening set -7802 Apr 30 j 22:41 25°**升**13'35 minimum elong -7809 May 01 j 05:07 10°**升**14'46 1°47'40 max. Earth dist. -7802 May 16 j 04:24 25°**₭**47'18 31.03528 AU morning rise -7809 May 17 j 07:40 10°**¥**50′26 retrograde -7809 Aug 13 j 00:24 12°**)**44'10 conjunction -7802 May 17 j 02:40 25°\(\dagger49'22\) -1°15'37 opposition -7809 Oct 28 j 21:41 11°\colon 21'14 -1°52'42 minimum elong -7802 May 17 j 02:41 25°\(\dagger49'22\) 1°15'43 min. Earth dist. -7809 Oct 29 j 13:10 11°**升**20′09 28.98869 AU morning rise -7802 Jun 02 j 03:01 26°\ 24'52 direct -7808 Jan 16 j 14:30 9°**)** 55'41 retrograde -7802 Aug 28 j 02:05 28°**)** 17'41 evening set -7808 Apr 16 j 13:29 11°**)** 52'44 opposition -7802 Nov 13 j 00:10 26°**)** 55′04 -1°18′13 min. Earth dist. -7802 Nov 13 j 20:48 26° ¥ 53'37 29.03993 AU conjunction -7808 May 02 j 18:48 12°\(\frac{1}{28}\)'38 -1°43'18 direct -7801 Feb 01 i 06:30 25°¥29'22 minimum elong -7808 May 02 j 18:49 12°\(\frac{1}{28}\)'38 1°43'30 evening set -7801 May 03 j 11:46 27°**)** €26'26 max. Earth dist. -7808 May 02 j 01:08 12°\(\frac{1}{26}\)'59 30.99233 AU -7808 May 18 j 21:05 13°**₩**04'16 -7801 May 19 j 15:24 28°\circ 02'12 -1°10'36 morning rise conjunction -7808 Aug 14 j 11:08 14°**)** 57'53 -7801 May 19 j 15:25 28°\circ\tau2'12 1°10'41 retrograde minimum elong opposition -7808 Oct 30 j 08:20 13°**)** √35′03 -1°48′12 -7801 May 18 j 16:36 28°¥00'05 31.04339 AU max. Earth dist. -7808 Oct 31 j 00:18 13°**)** €33'55 28.99788 AU -7801 Jun 04 j 15:28 min. Earth dist. morning rise 28° ¥ 37'39 -7807 Jan 18 j 03:13 $0^{\circ}\Upsilon$ 12°**)**(09'30 -7801 Jul 19 j 03:20 direct 0°Y30'22 -7807 Apr 19 j 03:27 -7801 Aug 30 j 13:42 14°**)**€06'35 retrograde evening set -7801 Oct 12 j 21:20 30°R X -7807 May 05 j 08:28 14°**)** 42′27 -1°39′01 opposition -7801 Nov 15 j 10:43 29°**H**07'48 -1°12'47 conjunction -7807 May 05 j 08:28 min. Earth dist. 14°**)**(42'27 1°39'13 -7801 Nov 16 j 06:38 29°**₭**06'25 29.04852 AU minimum elong -7807 May 04 j 12:52 14°**¥**40'38 31.00099 AU -7800 Feb 03 j 20:11 max. Earth dist. direct 27°**)** €42'06 -7807 May 21 j 10:33 15°**¥** 18′05 -7800 May 05 j 00:41 29°**)** 39'11 morning rise evening set $0^{\circ}\Upsilon$ retrograde -7807 Aug 16 j 21:28 17°**)** 11'34 -7800 May 14 j 11:36 opposition -7807 Nov 01 j 18:56 15°**)** 48'48 -1°43'33 max. Earth dist. -7800 May 20 j 04:52 0°Υ12'46 31.05261 AU min. Earth dist. -7807 Nov 02 j 12:04 15°**)** 47'35 29.00600 AU direct -7806 Jan 20 j 14:39 14°**¥**23'14 conjunction -7800 May 21 j 04:03 0°Y14'55 -1°05'28 -7806 Apr 21 j 17:10 16°**¥**20′20 minimum elong -7800 May 21 j 04:04 0°Υ14'55 1°05'31 evening set -7800 Jun 06 j 03:43 0°Y50'21 morning rise -7806 May 07 j 22:09 16°**)** 56'12 -1°34'36 -7800 Sep 01 j 01:17 2°Y42'58 conjunction retrograde -7806 May 07 j 22:10 16°**)** ★56'12 1°34'46 -7800 Nov 16 j 21:27 1°Y20'28 -1°07'14 minimum elong opposition -7806 May 07 j 02:39 16°**¥**54'23 31.00863 AU min. Earth dist. -7800 Nov 17 j 18:21 1°Υ19'00 29.05831 AU max. Earth dist. -7806 May 23 j 23:48 -7799 Jan 18 i 07:32 morning rise 17°**)** 31'48 30°R**)**€ -7806 Aug 19 i 06:45 -7799 Feb 05 i 08:06 29° **)** 54'47 retrograde 19°**¥**25′09 direct 18°**¥**02'26 -1°38'45 $0^{\circ}\Upsilon$ opposition -7806 Nov 04 i 05:41 -7799 Feb 23 i 05:17 min. Earth dist. -7806 Nov 04 i 23:49 18°**)**€01'09 29.01303 AU evening set -7799 May 07 j 13:36 1°Y51'53 direct -7805 Jan 23 i 03:34 16°¥36'50 conjunction -7805 Apr 24 j 06:44 18°**)** 33′56 -7799 May 23 i 16:41 2°Y27'36 -1°00'14 evening set minimum elong -7799 May 23 i 16:41 2°Y27'36 1°00'16 -7805 May 10 j 11:20 19°**¥**09'47 -1°30'02 -7799 May 22 j 17:39 2°Υ25'27 31.06295 AU conjunction max. Earth dist. -7799 Jun 08 j 15:54 3°Y03'00 minimum elong -7805 May 10 j 11:21 19°**¥**09'47 1°30'12 morning rise -7805 May 09 j 13:55 19°**)**€07'47 31.01543 AU 4°Υ55'31 max. Earth dist. retrograde -7799 Sep 03 j 11:16 -7805 May 26 j 12:51 3°Y33'07 -1°01'36 morning rise 19°**)** 45′22 opposition -7799 Nov 19 j 08:07 3°**Υ**31'40 29.06882 AU -7805 Aug 21 j 18:24 21°**)** 38'35 min. Earth dist. -7799 Nov 20 j 04:56 retrograde -7805 Nov 06 j 16:17 20°**)** 15′53 -1°33′48 direct -7798 Feb 07 j 21:27 2°Y07'29 opposition 4°**Υ**04'35 -7805 Nov 07 j 10:35 20° **★**14'36 29.01956 AU -7798 May 10 j 02:35 min. Earth dist. evening set -7804 Jan 25 j 14:58 18°**¥**50′15 -7798 May 25 j 05:02 4°**Υ**38'02 31.07377 AU direct max. Earth dist. 20°**)** 47'21 evening set -7804 Apr 25 j 20:07 max. Earth dist. -7804 May 11 j 03:35 21°**升**21'13 31.02181 AU conjunction -7798 May 26 j 05:10 4°**Y**40'17 -0°54'55 minimum elong -7798 May 26 j 05:11 4°**Υ**40'17 0°54'55 conjunction -7804 May 12 j 00:41 21°**X**23'11 -1°25'21 morning rise -7798 Jun 11 j 04:03 5°**Y**15'39 minimum elong -7804 May 12 j 00:42 21°**H**23'11 1°25'29 retrograde -7798 Sep 05 j 21:35 7°**Y**08′07 -7804 May 28 j 01:43 21°**)** 58'44 -7798 Nov 21 j 19:00 5°Υ45'47 -0°55'52 morning rise opposition -7804 Aug 23 j 03:55 23°**¥**51'49 min. Earth dist. -7798 Nov 22 j 16:22 5° Υ 44'18 29.07977 AU retrograde

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7797 in astronomical counting style is the year 7798 BCE in historical counting style. 4°Υ20'11 direct -7797 Feb 10 i 08:26 max. Earth dist. -7791 Jun 09 i 15:25 20°Υ04'51 31.13026 AU -7797 May 12 j 15:13 6°**Y**17'18 -7791 Jun 26 j 13:45 20°**Y**42′29 evening set morning rise -7791 Sep 20 j 22:31 22°Y34'26 retrograde -7797 May 28 j 17:34 6°Y52'59 -0°49'31 -7791 Dec 06 j 23:59 21° \bolday 12'19 -0° 14'03 conjunction opposition 21°**Υ**10'35 29.13351 AU -7797 May 28 j 17:35 6°Υ52'59 0°49'31 -7791 Dec 08 j 00:50 minimum elong min. Earth dist. -7797 May 27 j 18:05 6°**Υ**'50'47 31.08462 AU 19°**Y**46'45 -7790 Feb 26 j 00:25 max. Earth dist. direct -7797 Jun 13 j 15:53 7°**Y**28′19 21° Y 43'42 morning rise evening set -7790 May 28 j 06:55 -7790 Jun 12 j 03:30 -7797 Sep 08 j 06:35 9°Y20'43 22° Y 16'40 31.13615 AU retrograde max. Earth dist. 7°**Y**58'28 -0°50'03 opposition -7797 Nov 24 j 05:56 min. Earth dist. -7797 Nov 25 j 04:05 7°**Υ**56'55 29.09026 AU conjunction -7790 Jun 13 j 05:57 22°\bar{\gamma}19'08 -0°10'17 -7790 Jun 13 j 05:57 direct -7796 Feb 12 j 20:43 6°**Y**32'54 minimum elong 22°**Υ**19'07 0°10'08 22°**Υ**18'40 8°Y30'01 -7790 Jun 13 j 00:45 evening set -7796 May 14 j 04:08 behind sun begin 22°**Υ**19'35 -7796 May 29 j 04:45 9°**Υ**03'19 31.09478 AU -7790 Jun 13 j 11:09 max. Earth dist. behind sun end morning rise -7790 Jun 29 j 00:47 22°Y54'12 conjunction -7796 May 30 j 05:55 9°Y05'40 -0°44'02 retrograde -7790 Sep 23 j 07:59 24°\bar{Y}46'06 minimum elong -7796 May 30 j 05:56 9°**Y**05'40 0°44'00 opposition -7790 Dec 09 j 11:06 23°Y23'59 -0°07'57 morning rise -7796 Jun 15 j 03:56 9°Y40'59 min. Earth dist. -7790 Dec 10 j 11:29 23°**Y**22'18 29.13961 AU retrograde -7796 Sep 09 j 18:05 11° Y 33'18 -7789 Feb 28 j 14:25 21°Y58'26 opposition -7796 Nov 25 j 16:43 10°**Y**11'07 -0°44'10 evening set -7789 May 30 j 18:48 23°Y55'21 min. Earth dist. -7796 Nov 26 j 14:54 10°**Y**09'34 29.09995 AU direct -7795 Feb 14 j 07:37 8°Y45'34 conjunction -7789 Jun 15 j 17:11 24° Y 30'43 -0° 04'36 evening set -7795 May 16 j 16:55 10°**Y**42'41 minimum elong -7789 Jun 15 j 17:11 24°**Y**30'43 0°04'27 behind sun begin -7789 Jun 15 i 10:48 24° Y 30'09 conjunction -7795 Jun 01 j 18:26 11°Υ18'18 -0°38'30 behind sun end -7789 Jun 15 i 23:35 24°Y31'18 -7795 Jun 01 j 18:26 11°Υ18'18 0°38'28 max. Earth dist. -7789 Jun 14 i 14:10 24°Υ28'12 31.14267 AU minimum elong -7795 May 31 j 17:39 11° \bar 16'00 31.10387 AU -7789 Jul 01 j 11:33 25°**Y**′05'46 max. Earth dist. morning rise -7795 Jun 17 j 15:47 11°Y53'35 -7789 Sep 25 j 17:59 26°**Y**57'37 morning rise retrograde -7795 Sep 12 j 02:57 13°Y45'50 -7789 Dec 11 j 22:12 25°**Y**'35'32 -0°01'51 retrograde opposition -7795 Nov 28 j 03:52 12°**Y**23'41 -0°38'13 -7789 Dec 12 j 22:32 25°Υ33'51 29.14674 AU min. Earth dist. opposition -7795 Nov 29 j 03:27 12°**Y**22'03 29.10840 AU direct -7788 Mar 02 j 01:39 24°**Y**′09′59 min. Earth dist. -7794 Feb 16 j 20:22 10°**Y**58'10 -7788 Mar 31 j 20:01 24°**Y**24'09 asc. node direct -7794 May 19 j 05:38 12°Y55'15 -7788 Jun 01 j 06:37 26°Y06'53 evening set evening set -7794 Jun 03 j 04:16 13°**Υ**28'23 31.11180 AU -7788 Jun 16 j 02:48 26°Υ39'49 31.15033 AU max. Earth dist. max. Earth dist. 26°**Y**'42'13 0°01'14 -7794 Jun 04 j 06:31 13°**Y**30′50 -0°32′55 -7788 Jun 17 j 04:36 conjunction conjunction -7794 Jun 04 j 06:32 -7788 Jun 17 j 04:35 26°\bar{Y}42'13 0°01'25 minimum elong 13°**Y**30′50 0°32′51 minimum elong 14°**Υ**06'04 -7794 Jun 20 j 03:32 -7788 Jun 16 j 22:05 26°**Y**41'39 morning rise behind sun begin -7788 Jun 17 j 11:05 retrograde -7794 Sep 14 j 14:28 15°**Y**58'15 behind sun end 26°**Y**42'48 opposition -7794 Nov 30 j 14:53 14°**Υ**36'07 -0°32'14 morning rise -7788 Jul 02 j 22:15 27°Υ17'13 min. Earth dist. -7794 Dec 01 j 14:00 14°**Υ**34'31 29.11572 AU retrograde -7788 Sep 27 j 02:24 29°**Y**′09′03 -7793 Feb 19 j 09:37 13°**Y**10'35 opposition -7788 Dec 13 j 09:16 27°**Υ**47'00 0°04'15 direct -7793 May 21 j 18:09 15°**Y**07'40 min. Earth dist. -7788 Dec 14 j 09:43 27°Υ45'19 29.15490 AU evening set -7787 Mar 04 j 14:05 26°**Y**21'30 direct -7793 Jun 06 j 18:42 15°**Y**43'12 -0°27'18 -7787 Jun 03 j 18:33 28°Y18'23 conjunction evening set -7793 Jun 06 j 18:42 15°**Υ**'43'12 0°27'14 minimum elong -7793 Jun 05 j 16:39 15°**Υ**40'47 31.11858 AU -7787 Jun 19 i 15:46 28°**Y**'53'42 0°06'57 max. Earth dist. conjunction -7793 Jun 22 j 15:04 16°**Y**18′24 28°**Y**53'42 morning rise minimum elong -7787 Jun 19 i 15:46 0°07'08 -7793 Sep 17 i 00:12 28°Y53'09 retrograde 18°Y10'31 behind sun begin -7787 Jun 19 i 09:46 28°**Y**54'14 opposition -7793 Dec 03 i 01:55 16° \(\gamma 48'23 \) -0°26'12 behind sun end -7787 Jun 19 j 21:45 min. Earth dist. -7793 Dec 04 i 02:33 16°**Υ**46'41 29.12210 AU max. Earth dist. -7787 Jun 18 i 13:09 28°**Y**51'13 31.15913 AU 29°Y28'40 direct -7792 Feb 21 j 21:29 15°**Y**22'51 -7787 Jul 05 j 09:00 morning rise -7792 May 23 j 06:33 17°**Y**19′53 -7787 Jul 20 j 05:43 0°8 evening set max. Earth dist. -7792 Jun 07 j 03:56 17°**Υ**52'54 31.12469 AU -7787 Sep 29 j 13:40 1°820'29 retrograde -7787 Dec 14 j 22:31 30°RY -7792 Jun 08 j 06:35 17°**Υ**′55'23 -0°21'38 29°Y58'29 0°10'21 conjunction opposition -7787 Dec 15 j 20:26 29°**Υ**56'51 29.16422 AU minimum elong -7792 Jun 08 j 06:35 17°**Υ**′55'23 0°21'32 min. Earth dist. -7787 Dec 16 j 20:03 18°Y30'33 28°Y33'03 morning rise -7792 Jun 24 j 02:35 direct -7786 Mar 07 j 00:40 -7792 Sep 18 j 11:24 20°**Y**22'34 -7786 May 23 j 01:39 0°8 retrograde -7792 Dec 04 j 12:53 19°Υ00'27 -0°20'08 evening set -7786 Jun 06 j 06:06 0°**8**29'56 opposition -7792 Dec 05 j 12:54 18°**Y**58'47 29.12783 AU -7786 Jun 21 j 01:33 1°802'50 31.16878 AU min. Earth dist. max. Earth dist. 17°**Y**'34'54 direct -7791 Feb 23 j 11:51 19°Y31'53 evening set -7791 May 25 j 18:50 conjunction -7786 Jun 22 j 02:53 1°**8**05'12 0°12'38 minimum elong -7786 Jun 22 j 02:52 1°**8**05'12 0°12'51 conjunction -7791 Jun 10 j 18:21 20°**Y**07′21 -0°15′58 behind sun begin -7786 Jun 21 j 22:51 1°804'50 minimum elong -7791 Jun 10 j 18:21 20°**Υ**07'21 0°15'51 behind sun end -7786 Jun 22 j 06:53 1°**8**05'33 behind sun begin -7791 Jun 10 j 17:33 20°**℃**07'17 -7786 Jul 07 j 19:21 1°840'08 morning rise -7791 Jun 10 j 19:10 20°**℃**07'26 retrograde -7786 Oct 01 j 22:05 3°**8**31'58 behind sun end

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7786 in astronomical counting style is the year 7787 BCE in historical counting style. -7786 Dec 18 i 07:49 2°810'02 0°16'26 max. Earth dist. -7779 Jul 06 j 05:40 16°**8**23'55 31.22160 AU opposition -7786 Dec 19 j 08:11 2°808'21 29.17411 AU min. Earth dist. -7785 Mar 09 j 12:35 0°844'41 -7779 Jul 07 j 06:46 16°**8**26'16 0°51'30 direct conjunction 2°841'33 -7779 Jul 07 j 06:45 -7785 Jun 08 j 17:51 16°**8**26'16 0°51'49 evening set minimum elong -7779 Jul 22 j 18:56 max. Earth dist. 17°800'53 -7785 Jun 23 j 11:45 3°**8**14'21 31.17884 AU morning rise -7779 Oct 16 j 23:40 18°**8**52'47 retrograde -7778 Jan 02 j 16:41 conjunction -7785 Jun 24 j 13:52 3°**8**16'47 0°18'18 opposition 17°**8**30'58 0°57'48 minimum elong -7785 Jun 24 j 13:51 3°**8**16'47 0°18'31 min. Earth dist. -7778 Jan 03 j 17:06 17°**8**29'18 29.22423 AU -7785 Jul 10 j 05:55 3°851'41 morning rise direct -7778 Mar 25 j 05:09 16°**8**05'52 retrograde -7785 Oct 04 j 09:23 5°**8**43'32 evening set -7778 Jun 24 j 01:35 18°**8**02'28 opposition -7785 Dec 20 j 18:58 4°**8**21'40 0°22'30 -7778 Jul 09 j 16:56 18°837'22 0°56'48 min. Earth dist. -7785 Dec 21 j 18:27 4°**8**20'03 29.18412 AU conjunction -7778 Jul 09 j 16:55 direct -7784 Mar 11 j 00:04 2°**8**56'23 minimum elong 18°**8**37'22 0°57'10 evening set -7784 Jun 10 j 05:27 4°853'16 max. Earth dist. -7778 Jul 08 j 15:13 18°**8**34'57 31.22577 AU max. Earth dist. -7784 Jun 24 j 23:26 5°**8**26'04 31.18853 AU morning rise -7778 Jul 25 j 04:39 19°**8**11'56 retrograde -7778 Oct 19 j 10:24 21°**8**03'51 conjunction -7784 Jun 26 j 00:56 5°**8**28'27 0°23'57 opposition -7777 Jan 05 j 04:22 19°**8**41'59 1°03'26 minimum elong -7784 Jun 26 j 00:56 5°**8**28'27 0°24'13 min. Earth dist. -7777 Jan 06 j 03:44 19°**8**40'24 29.22853 AU morning rise -7784 Jul 11 j 16:16 6°803'18 direct -7777 Mar 27 j 16:52 18°**8**16'53 retrograde -7784 Oct 05 j 19:22 7°**8**55'11 evening set -7777 Jun 26 j 12:25 20°813'25 opposition -7784 Dec 22 j 06:30 6°**8**33'22 0°28'31 max. Earth dist. -7777 Jul 11 j 03:03 20°845'59 31.23012 AU min. Earth dist. -7784 Dec 23 i 07:08 6°**႘**31'40 29.19352 AU direct -7783 Mar 13 j 10:34 5°808'09 conjunction -7777 Jul 12 i 03:14 20°**8**48'16 1°02'01 evening set -7783 Jun 12 j 17:05 7°805'01 minimum elong -7777 Jul 12 i 03:14 20°**8**48'15 1°02'22 max. Earth dist. -7783 Jun 27 j 10:04 7°**8**37'45 31.19746 AU morning rise -7777 Jul 27 j 14:10 21°**8**22'47 -7777 Oct 21 j 18:02 23°**8**14'43 retrograde -7783 Jun 28 j 11:50 7°840'09 0°29'34 -7776 Jan 07 j 16:04 21°852'50 1°08'58 conjunction opposition -7783 Jun 28 j 11:50 7°**8**40'09 0°29'50 -7776 Jan 08 j 15:50 21°**8**51'12 29.23324 AU min. Earth dist. minimum elong -7783 Jul 14 j 02:36 -7776 Mar 29 j 04:56 8°814'58 20°**8**27'45 morning rise direct -7783 Oct 08 j 06:49 10°**8**06'52 -7776 Jun 27 j 23:19 22°**8**24'13 retrograde evening set -7783 Dec 24 j 18:01 8°**8**45'05 0°34'30 opposition -7776 Jul 13 j 13:18 22°859'00 1°07'09 min. Earth dist. -7783 Dec 25 j 17:49 8°**8**43'27 29.20187 AU conjunction -7782 Mar 16 j 00:53 7°**8**19'55 -7776 Jul 13 j 13:18 22°**8**59'00 1°07'32 direct minimum elong -7782 Jun 15 j 04:39 9°**8**16'45 -7776 Jul 12 j 12:51 22°**8**56'43 31.23522 AU evening set max. Earth dist. -7776 Jul 28 j 23:46 23°**8**33'29 morning rise -7782 Jun 30 j 22:46 9°**8**51'51 0°35'08 -7776 Oct 23 j 04:34 25°**8**25'27 conjunction retrograde -7782 Jun 30 j 22:45 -7775 Jan 09 j 03:47 24°**8**03'33 1°14'24 minimum elong 9°**8**51'51 0°35'26 opposition max. Earth dist. -7782 Jun 29 j 20:46 9°**8**49'25 31.20515 AU min. Earth dist. -7775 Jan 10 j 01:57 24°802'02 29.23882 AU morning rise -7782 Jul 16 j 12:52 10°**8**26'37 direct -7775 Mar 31 j 16:14 22°**8**38'31 retrograde -7782 Oct 10 j 18:46 12°**8**18'32 evening set -7775 Jun 30 j 09:58 24°**8**34'56 -7782 Dec 27 j 05:42 10°856'45 0°40'26 opposition min. Earth dist. -7782 Dec 28 j 06:14 10°**8**55'04 29.20911 AU -7775 Jul 15 j 23:21 25°**8**09'40 1°12'10 conjunction -7781 Mar 18 j 13:11 9°**8**31'37 -7775 Jul 15 j 23:21 25°**8**09'40 1°12'33 direct minimum elong -7781 Jun 17 j 15:57 11°**8**28'26 -7775 Jul 15 j 00:08 25°**8**07'30 31.24116 AU evening set max. Earth dist. -7781 Jul 02 j 07:56 12°**8**01'05 31.21174 AU -7775 Jul 31 j 09:03 25°**8**44'07 max. Earth dist. morning rise -7775 Oct 25 i 14:18 retrograde 27°**8**36'08 -7781 Jul 03 i 09:29 12°803'28 0°40'39 conjunction opposition -7774 Jan 11 i 15:46 26°814'15 1°19'43 -7781 Jul 03 i 09:28 minimum elong 12°**8**03'28 0°40'57 min. Earth dist. -7774 Jan 12 j 14:19 26°812'43 29.24532 AU -7781 Jul 18 j 22:58 12°**8**38'11 morning rise direct -7774 Apr 03 j 02:31 24°**8**49'17 evening set -7781 Oct 13 j 04:15 14°830'06 -7774 Jul 02 j 20:40 26°845'40 retrograde -7781 Dec 29 j 17:20 13°**8**08'20 0°46'18 max. Earth dist. -7774 Jul 17 j 10:39 27°**8**18'14 31.24810 AU opposition min. Earth dist. -7781 Dec 30 j 17:32 13°**8**06'40 29.21500 AU -7780 Mar 20 j 03:15 11°**8**43'13 -7774 Jul 18 j 09:18 27°**8**20'21 1°17'06 direct conjunction -7780 Jun 19 j 03:23 evening set 13°**8**39'58 minimum elong -7774 Jul 18 j 09:18 27°**8**20'21 1°17'31 morning rise -7774 Aug 02 j 18:28 27°**8**54'45 conjunction -7780 Jul 04 j 20:08 14°814'57 0°46'07 retrograde -7774 Oct 28 j 01:25 29°**8**46'51 minimum elong -7780 Jul 04 j 20:07 14°**8**14'57 0°46'26 opposition -7773 Jan 14 j 03:36 28°**8**25'00 1°24'55 -7780 Jul 03 j 17:47 14°**8**12'29 31.21706 AU min. Earth dist. -7773 Jan 15 j 00:39 28°**8**23'34 29.25253 AU max. Earth dist. -7780 Jul 20 j 09:04 14°**8**49'38 -7773 Apr 05 j 15:39 27°800'06 morning rise direct -7780 Jul 25 j 03:40 15°8 -7773 Jul 05 j 07:11 28°**8**56'29 evening set -7780 Oct 14 j 14:52 16°**8**41'32 retrograde -7780 Dec 31 j 04:53 15°**8**19'45 0°52'06 conjunction -7773 Jul 20 j 19:09 29°**8**31'07 1°21'55 opposition min. Earth dist. -7779 Jan 01 j 05:10 15°**8**18'05 29.21997 AU minimum elong -7773 Jul 20 j 19:09 29°**8**31'07 1°22'20 -7779 Jan 12 j 07:54 15°R₩ max. Earth dist. -7773 Jul 19 j 20:51 29°**8**29'02 31.25539 AU direct -7779 Mar 22 j 15:10 13°**8**54'38 -7773 Aug 02 j 16:09 $0^{\circ}\Pi$ -7779 May 27 j 10:06 15°8 -7773 Aug 05 j 03:44 0°**I**105′29 morning rise -7779 Jun 21 j 14:33 15°**8**51'19 -7773 Oct 30 j 13:29 1°**I**57'40 evening set retrograde

Planetary Pheno	omena of Neptune f	rom -7900	through -7398	(UT), Astrodien	st AG 18-Feb-2025	14:23,	page 11
Attention, astronom	ical year style is used: Th	e year -7772 i	in astronomical cou	unting style is the year	7773 BCE in historical c	ounting style.	
opposition	-7772 Jan 16 j 15:38	0° Ⅲ 35'51	1°30'00	conjunction	-7766 Aug 04 j 15:27	14° Ⅱ 48'20	1°51'57
min. Earth dist.	-7772 Jan 17 j 12:54	0° Ⅲ 34′24	29.25995 AU	minimum elong	-7766 Aug 04 j 15:26	14° Ⅱ 48'20	1°52'27
	-7772 Feb 08 j 07:34	30° ₹ 8		max. Earth dist.	-7766 Aug 03 j 20:22	14° Ⅱ 46'32	31.28138 AU
direct	-7772 Apr 07 j 02:37	29° 8 11'03		morning rise	-7766 Aug 19 j 20:00	15° Ⅱ 22'26	
	-7772 Jun 02 j 10:29	$\Pi^{\circ}0$		retrograde	-7766 Nov 14 j 12:42	17° Ⅱ 15'13	
evening set	-7772 Jul 06 j 17:45	1° Ⅱ 07'25		opposition	-7765 Feb 01 j 05:40	15° Ⅱ 53'18	2°01'35
max. Earth dist.	-7772 Jul 21 j 07:47		31.26257 AU	min. Earth dist.	-7765 Feb 02 j 00:35		29.28267 AU
man zarm alou.	///2vai 21j 0//	1 2 .0 00	31.2020 / 110	direct	-7765 Apr 23 j 15:26	14° ∏ 28'52	29.20207 110
conjunction	-7772 Jul 22 j 05:05	1° Ⅱ 42'00	1°26'37	evening set	-7765 Jul 22 j 18:01	16° ∏ 24'50	
minimum elong	-7772 Jul 22 j 05:04	1° Ⅱ 42'00	1°27'03	max. Earth dist.	-7765 Aug 06 j 06:29		31.28120 AU
morning rise	-7772 Aug 06 j 12:58	2° Ⅱ 16'19	1 27 03	max. Earth dist.	-7703 Aug 00 J 00.29	10 113/22	31.28120 AU
-		4° Ⅱ 08'36			77(5 A 07:00.46	1.00TE0100	1955120
retrograde	-7772 Oct 31 j 23:26		1024150	conjunction	-7765 Aug 07 j 00:46	16° Ⅱ 59'06	
opposition	-7771 Jan 18 j 03:39	2° Ⅱ 46'49		minimum elong	-7765 Aug 07 j 00:45	16° ∏ 59'06	1°56'08
min. Earth dist.	-7771 Jan 19 j 00:14		29.26679 AU	morning rise	-7765 Aug 22 j 04:53	17° Ⅲ 33'10	
direct	-7771 Apr 09 j 15:46	1° Ⅲ 22'07		retrograde	-7765 Nov 16 j 23:14	19° ∏ 26′01	
evening set	-7771 Jul 09 j 04:25	3° Ⅱ 18′28		opposition	-7764 Feb 03 j 18:00	18° ∏ 04'03	2°05'27
				min. Earth dist.	-7764 Feb 04 j 11:11		29.28249 AU
conjunction	-7771 Jul 24 j 14:55	3° Ⅱ 53'00	1°31'11	direct	-7764 Apr 25 j 04:30	16° Ⅱ 39'37	
minimum elong	-7771 Jul 24 j 14:55	3° Ⅱ 53′00	1°31'37	evening set	-7764 Jul 24 j 03:54	18° Ⅲ 35'30	
max. Earth dist.	-7771 Jul 23 j 17:10	3° Ⅱ 50'58	31.26896 AU				
morning rise	-7771 Aug 08 j 22:19	4° Ⅲ 27'18		conjunction	-7764 Aug 08 j 09:59	19° Ⅱ 09'44	1°59'10
retrograde	-7771 Nov 03 j 11:13	6° Ⅱ 19'41		minimum elong	-7764 Aug 08 j 09:59	19° Ⅱ 09'44	1°59'40
opposition	-7770 Jan 20 j 15:56	4° Ⅱ 57'55	1°39'47	max. Earth dist.	-7764 Aug 07 j 16:14	19°∏08'03	31.28109 AU
min. Earth dist.	-7770 Jan 21 j 12:14		29.27282 AU	morning rise	-7764 Aug 23 j 13:38	19° ∏ 43'45	
direct	-7770 Apr 12 j 03:23	3° П 33'17	27.27.202.110	retrograde	-7764 Nov 18 j 11:02	21° I I36'43	
evening set	-7770 Jul 11 j 14:47	5° П 29'36		opposition	-7763 Feb 05 j 06:28	20° ∏ 14'40	2°09'07
max. Earth dist.	-7770 Jul 26 j 04:27		31.27423 AU	min. Earth dist.	-7763 Feb 05 j 23:21		29.28288 AU
max. Earth dist.	-///0 Jul 20 J 04.2/	6 Д02 12	31.27423 AU		•	20 П 13 32 18° П 50'16	29.26266 AU
	7770 1 1 27:00 46	COTTO 410 C	1025120	direct	-7763 Apr 27 j 14:35		
conjunction	-7770 Jul 27 j 00:46	6° Ⅱ 04'06	1°35'38	evening set	-7763 Jul 26 j 13:41	20° Ⅱ 46′05	
minimum elong	-7770 Jul 27 j 00:45	6° Ⅱ 04'06	1°36'05			—	
morning rise	-7770 Aug 11 j 07:26	6° Ⅲ 38′21		conjunction	-7763 Aug 10 j 19:16	21° ∏ 20'16	
retrograde	-7770 Nov 05 j 20:56	8° Ⅲ 30′50		minimum elong	-7763 Aug 10 j 19:16	21° Ⅱ 20′16	
opposition	-7769 Jan 23 j 04:18	7° Ⅱ 09'04	1°44'28	max. Earth dist.	-7763 Aug 10 j 03:12	21° Ⅱ 18'45	31.28184 AU
min. Earth dist.	-7769 Jan 24 j 00:40	7° Ⅱ 07'41	29.27740 AU	morning rise	-7763 Aug 25 j 22:22	21° ∏ 54′16	
direct	-7769 Apr 14 j 17:16	5° Ⅱ 44'31		retrograde	-7763 Nov 20 j 20:52	23° Ⅱ 47'19	
evening set	-7769 Jul 14 j 01:22	7° Ⅱ 40'47		opposition	-7762 Feb 07 j 19:00	22° Ⅲ 25′14	2°12'36
				min. Earth dist.	-7762 Feb 08 j 10:25	22° Ⅲ 24'12	29.28405 AU
conjunction	-7769 Jul 29 j 10:31	8° Ⅱ 15'15	1°39'56	direct	-7762 Apr 30 j 03:15	21° Ⅱ 00'53	
minimum elong	-7769 Jul 29 j 10:31	8° Ⅱ 15'15	1°40'23	evening set	-7762 Jul 28 j 23:22	22° I I56'38	
max. Earth dist.	-7769 Jul 28 j 13:26		31.27805 AU	C	,		
morning rise	-7769 Aug 13 j 16:47	8° Ⅱ 49'27		conjunction	-7762 Aug 13 j 04:17	23° ∏ 30'47	2°05'41
retrograde	-7769 Nov 08 j 08:22	10° Ⅱ 42'01		minimum elong	-7762 Aug 13 j 04:16	23° ∏ 30'47	2°06'12
opposition	-7768 Jan 25 j 16:24	9° Ⅲ 20′15	1°48'59	max. Earth dist.	-7762 Aug 12 j 12:19		31.28343 AU
min. Earth dist.	-7768 Jan 26 j 11:49		29.28058 AU	morning rise	-7762 Aug 28 j 07:06	24° ∏ 04'45	31.203 13 110
direct	-7768 Apr 16 j 04:55	7° Ⅱ 55'44	27.20030 AO	retrograde	-7762 Nov 23 j 09:15	25° П 57'55	
evening set		9° П 51'57				23 П 3733 24° П 35'49	2015154
evening set	-7768 Jul 15 j 11:45	9 Д3137		opposition	-7761 Feb 10 j 07:31		
aanimati	7760 1-1 20:20.24	100 Паста	19/1/06	min. Earth dist.	-7761 Feb 10 j 22:00		29.28614 AU
conjunction	-7768 Jul 30 j 20:24	10° Ⅲ 26′22		direct	-7761 May 02 j 14:43	23° Ⅱ 11'32	
minimum elong	-7768 Jul 30 j 20:24	10° Ⅲ 26′22		evening set	-7761 Jul 31 j 08:59	25° Ⅱ 07'13	
max. Earth dist.	-7768 Jul 30 j 00:32		31.28034 AU				
morning rise	-7768 Aug 15 j 01:57	11° Ⅱ 00′32		conjunction	-7761 Aug 15 j 13:32	25° ∏ 41′20	
retrograde	-7768 Nov 09 j 16:26	12° Ⅱ 53'11		minimum elong	-7761 Aug 15 j 13:31	25° Ⅱ 41'20	
opposition	-7767 Jan 27 j 04:52	11° Ⅲ 31′23	1°53'21	max. Earth dist.	-7761 Aug 14 j 23:36	25° Ⅱ 40'01	31.28572 AU
min. Earth dist.	-7767 Jan 28 j 00:50	11° Ⅲ 30′02	29.28221 AU	morning rise	-7761 Aug 30 j 15:47	26° Ⅱ 15′16	
direct	-7767 Apr 18 j 17:22	10° Ⅱ 06′54		retrograde	-7761 Nov 25 j 19:37	28° Ⅱ 08'33	
evening set	-7767 Jul 17 j 22:00	12° Ⅲ 03′03		opposition	-7760 Feb 12 j 19:59	26° Ⅱ 46′27	2°19'00
max. Earth dist.	-7767 Aug 01 j 09:46	12° Ⅲ 35'31	31.28136 AU	min. Earth dist.	-7760 Feb 13 j 10:01	26° Ⅱ 45'30	29.28856 AU
				direct	-7760 May 04 j 04:09	25° Ⅱ 22'14	
conjunction	-7767 Aug 02 j 05:54	12° Ⅱ 37'25	1°48'06	evening set	-7760 Aug 01 j 18:44	27° I 17'54	
minimum elong	-7767 Aug 02 j 05:53	12° Ⅱ 37'25	1°48'35				
morning rise	-7767 Aug 17 j 11:03	13° Ⅱ 11'33	1 .000	conjunction	-7760 Aug 16 j 22:36	27° ∏ 51'58	2°11'30
retrograde	-7767 Nov 12 j 02:59	15° Ⅱ 04'15		minimum elong	-7760 Aug 16 j 22:35	27° Д 51'58	
-		13° I I42'25	1°57'33	max. Earth dist.			31.28821 AU
opposition	-7766 Jan 29 j 17:13				-7760 Aug 16 j 08:32		31.20021 AU
min. Earth dist.	-7766 Jan 30 j 11:41		29.28273 AU	morning rise	-7760 Sep 01 j 00:37	28° ∏ 25'53	
direct	-7766 Apr 21 j 04:55	12° Ⅱ 17'57			-7760 Oct 24 j 07:13	0.20	
evening set	-7766 Jul 20 j 08:06	14° Ⅱ 14'01		retrograde	-7760 Nov 27 j 07:27	0°9519'18	
					-7759 Jan 01 j 05:44	30°R∏	

min. Industals dired 67759 Neb 46 j.12.09 28 H50-200 9.99104 AU minimumenlong 7755 Sep 10 j.14.16 19.39028 22.00 evening set 4779 May 64 j.04.13 29 H38.99 morning rice 7755 Sep 10 j.61.42 19.392.16 19	•	omena of Neptune 1		-				page 12
min Farth dist 7759 Reb 14 2109 28 PER Seal 18 29 PER 39 (1914 a) 9758 Seal 19 1416 b 18 92007 8 22 PER 39 (1914 b) 9758 Seal 19 1516 b 18 92016 b 18 92017 b			-					
direct -7759 May 16 [1514] 2713 3 May 16 [1514] 2713 3 Val 16 [1514] 2713 3 Val 16 [1514] 3713 3 Val 16 [1514] 3725 3 Val 16 [1512] 1759 0 Val 16 [1514] 3725 3 Val 16 [1512] 1759 3 Val 16 [1514] 3725 3 Val 16 [1512] 1759 3 Val 16 [1512] 1759 3 Val 16 [1514] 3725 3 Val 16 [1512] 1759 3 Val 16 [1512] 1759 3 Val 16 [1514] 3725 3 Val 16 [1512] 1759 3 Val 16 [1514] 3725 3 Val 16 [1512] 1759 3 Val 16 [1514] 3725 3 Val 16 [1514] <td>opposition</td> <td></td> <td>28°∏57'10</td> <td>2°21'54</td> <td>,</td> <td></td> <td>13°©07'28</td> <td>2°25'42</td>	opposition		28° ∏ 57'10	2°21'54	,		13° © 07'28	2°25'42
Seeming set	min. Earth dist.	•		29.29104 AU	_			
Companion								31.27964 AU
Compined	evening set				•		13° © 41'16	
conjunction 7759 Aug 19107-43 0°500242 21197 min Land data (752 Aug 10)23 1°591228 29.22 (2018) max Earth dat. -7759 Aug 18 19-20 0°500131 312002 AU evening set -7752 Aug 18 12-20 1°454409 morning rise -7759 Nov. 29 16-27 2°530008 conjunction -7752 Aug 18 12-20 1°561800 2°23000 min Earth dist. -7758 Feb 16 21323 1°500000 2°2436 minimum clong -7752 Sep 0,12214 1°561800 2°25000 min Earth dist. -7758 Feb 16 21323 1°50000 2°2436 minimum clong -7752 Sep 0,12214 1°561800 2°25172 3°272 direct -7758 Nam 09 19146 0°93 """ 1°752 May 09160 2°752 Nov 19220 1°752 Nov 19220 1°		-7759 Aug 18 j 03:13	0		-	3	15° © 35'31	
minimal color 7759 Aug. 19 j.07 43 by 690.742 by 180.00 200.001 31 20002 Aug. ordinal color and col					opposition	-7752 Mar 02 j 02:35	14° © 13'00	2°36'21
max. Earth dist. -7759 Aug 18 j 19 20 0°80131 31.29032 AU evening set -7752 Aug 18 j 22.20 14°84409 nerrognade -7759 Nov 29 j 16-27 2°93000 conjunction -7752 Sep 02 j 23:14 15°81800 220 nm. Earth dist. -7758 Nep 16 j 21:32 1°80000 22436 minimum elong -7752 Sep 02 j 23:14 15°821800 220 drecet -7758 Nap 10 j 10:30 3°87L max. Earth dist. -7752 Sep 17 j 23:03 15°851148 evening set -7758 Nap 09 j 14-60 0°92 conjunction -7751 Mar 04 j 15:32 16°82373 23°31 evening set -7758 Aug 21 j 10:51 2°93120 2°1032 evening set -7751 Mar 04 j 15:32 16°82373 23°31 evening set -7758 Aug 21 j 10:51 2°93120 2°1032 evening set -7751 Mar 04 j 15:32 16°82373 23°31 evening set -7758 Aug 21 j 10:52 2°93120 2°1032 evening set -7751 Mar 04 j 13:32 16°82373 23°32 evening set -7758 Aug 21 j 10:51 2°93120 2°1004 minimum clong -7751 Aug 24 j 10:34 17°82879 23°20 17°82879 23°20 2°22887 23°20		C 3			min. Earth dist.	,	14° © 12'28	29.27940 AU
morning rise 7759 Sep 03 09 14 0°231675 0°231078 0°131078 0	_							
retorgade		• •	0° © 01'31	31.29032 AU	evening set	-7752 Aug 18 j 22:20	14°5544'09	
opposition in Earth dist. in Earth dist. 7758 kep 16 j 2132 17920km 2 29287 AU min. Earth dist. 7758 kep 02 j 214 157921721 31.27 max. Earth dist. 7758 kep 02 j 216 15792721 31.27 max. Earth dist. 7758 kep 02 j 214 37.08 max. Earth dist. 7758 kep 02 j 214 37.08 max. Earth dist. 7758 kep 02 j 214 37.08 max. Earth dist. 7758 kep 02 j 214 32.09 17924 32.09 max. Earth dist. 7758 kep 02 j 214 32.09 17924 32.09 max. Earth dist. 7758 km 04 j 12.31 1692303 22.09 minimum elong 7758 kag 02 j 116 17928 22.09 minimum elong 7758 kag 02 j 116 17928 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 02 j 10 432 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7757 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7759 kag 03 j 0754 1792829 22.09 minimum elong 7758 kag 03 j 0754 1792829 22.09 minimum elong 7759 kag 03 j 0754 1792829 22.09 minimum elong 7750 kag 03 j 0754 1792829 22.09 minimum elong 7750 kag 03 j 0754 1792829 22.09 minimum elong 7750 kag 03 j 0754 1792829 22.09 minimum elong 7750 kag 03 j 0754 1792829 22.09 minimum elong 7750 kag 03 j 0754 1792829 22.09 minimum elong 7750 kag 03 j 0754 1792829		1 3						
min. Earth dist. -7758 Feb 17 j 10.12 1′900'09 29.28'87 AU max. Earth dist. -7752 Sep 0.2 j 16.19 159'E172 J 13.25 1595'184 S 1 direct -7758 May 0.9 j 0.356 29'IL43'57 rerognade -7752 Doc 14 j 2.200 1796'd00 1796'd00 1795'd00 1795'd00 <t< td=""><td></td><td>,</td><td></td><td></td><td>•</td><td></td><td></td><td></td></t<>		,			•			
1.758 Apr 06 19-20		-7758 Feb 16 j 21:32	1° © 08'00	2°24'36				
direct -7758 May 09 j 0.35 fs 29°H 1/35°T retrograde -7755 Mar 09 j 1446 0°G opposition -7755 Mar 04 j 1232 1°E92373 2°1758 May 06 j 1356 1°E93293 2°1758 May 14 j 1252 1°E92373 2°1704 conjunction -7758 Aug 21 j 1655 2°91330 2°1704 riminum clong -7758 Aug 21 j 1651 2°91330 2°1704 riminum clong -7758 Aug 21 j 1651 2°91330 2°1704 riminum clong -7758 Aug 21 j 1651 2°91330 2°1704 riminum clong -7751 Sep 05 j 0754 1°92829 2°27 morning rise -7758 Neb 05 j 1860 2°824723 2°1704 minimum clong -7751 Sep 05 j 0754 1°92829 2°27 minimum clong -7757 Neb 19 j 1011 3°928783 2°2706 morning rise -7751 Sep 05 j 0754 1°92829 2°28 evening set -7757 Aug 19 j 1214 3°921893 2°29375 AU retograde -7751 Nep 0.071 Mor 0.079 Mor 0.0	min. Earth dist.	·		29.29287 AU	max. Earth dist.		15° © 17'21	31.27523 AU
cvening set -7788 Jan 09 j 1446 0°B opposition -7751 Mar 04 j 1532 16°B23733 22°B373					morning rise		15° © 51'48	
evening set 7758 Aug 06 j 135.6 793929 minimanu floor 7758 Aug 21 j 1652 2°91330 2°1632 evening set 7751 Aug 21 j 1651 1°92320 2°1704 evening set 7751 Aug 21 j 1676 1°92320 2°1704 evening set 7751 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°1704 evening set 7758 Aug 21 j 1676 1°92320 2°2706 evening set 7757 Aug 21 j 14 3°21803 2°2706 evening set 7757 Aug 81 j 27114 3°21803 2°2706 evening set 7757 Aug 81 j 27114 3°21803 2°2706 evening set 7757 Aug 81 j 27114 3°21803 2°2706 evening set 7757 Aug 81 j 27114 3°21803 2°2706 evening set 7757 Aug 81 j 27114 3°21803 2°2706 evening set 7757 Aug 81 j 27114 3°21803 2°2706 evening set 7757 Aug 81 j 2°2704 4°2242 2°1917 evening set 7757 Aug 81 j 2°1014 2°2703 avg 27114 avg 27114	direct				•	-	17° © 46'09	
conjunction -7758 Aug 21 j 16:52 2°931330 2°1632 evening set -7751 Aug 24 j 13:34 14°259434 max. Earth dist. -7758 Aug 21 j 16:52 2°931330 2°1704 revening set -7751 Sep 05 j 07:54 17°928329 2°27 max. Earth dist. -7758 Pos 05 j 18:09 2°2631230 31 29171 AU conjunction -7751 Sep 05 j 07:54 17°928329 2°27 retrograde -7758 Dec 02 j 03:47 4°924103 max. Earth dist. -7751 Sep 05 j 07:54 17°928329 2°27 opposition -7757 Feb 19 j 0:11 3°921893 2°22706 moming rise -7751 Sep 05 j 07:54 17°820329 3 2°2706 direct -7757 May 11 j 15:42 19°25453 2°29075 AU retrograde -7750 May 07 j 02:20 18°20317 2°18000 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td>		-				3		
conjunction 7.758 Aug 2 l j 16.52 2°93130 2°1704 r 7.751 Aug 2 l j 0.726 16°826/39 2°1704 r 7.751 Sep 0 j 10.51 1°262/320 2°1704 r 7.751 Sep 0 j 0.755.54 1°262/220 2°272 2°1704 r 7.751 Sep 0 j 0.755.54 1°262/220 2°272 2°272 2°273 <th< td=""><td>evening set</td><td>-7758 Aug 06 j 13:56</td><td>1°539'29</td><td></td><td>min. Earth dist.</td><td>•</td><td>16°©23'05</td><td>29.27523 AU</td></th<>	evening set	-7758 Aug 06 j 13:56	1° 5 39'29		min. Earth dist.	•	16° © 23'05	29.27523 AU
minimum elong -7758 Aug 21 j l 6.3 2°G31330 2°1704 -7751 Sep 05 j 07:54 1°G2829 2°27 morning rise -7758 Rog 05 j 07:54 1°G2829 2°28 morning rise -7751 Sep 05 j 07:54 1°G2829 2°28 morning rise -7751 Sep 05 j 07:54 1°G2829 2°28 morning rise -7751 Sep 05 j 07:54 1°G2829 2°28 morning rise -7751 Sep 05 j 07:54 1°G2829 2°28 morning rise -7751 Sep 05 j 07:54 1°G2829 2°28 morning rise -7751 Sep 05 j 07:54 1°G20217 3°28 morning rise -7751 Sep 05 j 07:54 1°G20217 3°28 morning rise -7751 Sep 05 j 07:54 1°G20217 3°28 morning rise -7750 Mar 07 j 09:26 1°G20217 3°28 morning rise -7750 Mar 07 j 09:26 1°G20217 2°78 morning rise 2°757 Aug 8) 33:31 3°G2022 2°18 morning rise -7750 Mar 07 j 09:26 1°G20318 2°28 morning rise -7750 Aug 23 j 16:26 1°G20318 2°28 morning rise -7750 Aug 23 j 16:26 1°G20318 2°28 morning rise -7750 Sep 07 j 16:49 1°G20318 2°20 morning rise -7750 Sep 07 j 16:49 1°G20318 2°C20 morning rise -7750 Sep 07 j 16:49 1°G20318					direct	-7751 May 24 j 13:34	14° © 59'44	
max Earth dist -7758 Say 21 J 04.2 2°91223 31.2917 AU conjunction -7751 Sep 05 J 07.54 17*522829 2°22 retrograde -7758 Sep 05 J 18.09 2°924723 minimum clong -7751 Sep 05 J 07.54 17*522829 2°22 retrograde -7757 Feb 19 J 10.11 3°931833 2°2706 morning rise -7751 Dec 17 J 10.16 17°905401 2°38 direct -7757 May 11 J 15.42 1°925454 composition -7750 May 07 J 00.23 1°820410 2°38 devening set -7575 May 21 J 02.04 4°92422 2°1847 evening set -7570 May 07 J 00.23 1°820303 2°27 conjunction -7575 Aug 24 J 02.04 4°92422 2°1847 evening set -7570 May 07 J 00.23 1°923039 2°28 morning rise -7575 Aug 24 J 02.04 4°923212 2°1847 evening set -7570 Sep 07 J 16.49 1°923839 2°28 morning rise -7575 F obl 11.00 4°925422 2°1917 max. Earth dist. -7750 Sep 07 J 16.49 1°923839 2°28 evettograde -7755 F obl 10.10	conjunction				evening set	-7751 Aug 21 j 07:26	16° © 54'39	
morning rise								
Proposition 1758 Dec 07 jo 347 4°2410 3°28105 2°2706 morning rise 7751 Sep 05 jo 10:16 18°20715 18°20716 19°20716 18°20717 19°20716 18°20717 19°20716 18°20717 19°20716 18°20717 19°20716 18°20717 19°20716 18°20717 19°			2° © 12'20	31.29171 AU	•		17° © 28'29	2°27'56
opposition -7757 Feb 19 j 10:11 3°S1850 2°2706 moming rise -7751 Rep 20 j 07:46 18°S90217 restograde -7751 Dee 17 j 10:11 19°S95645 restograde -7751 Dee 17 j 10:11 19°S95645 20°S95645 restograde -7750 Dee 17 j 10:12 19°S93430 2°28 20°S93345 2°29 20°S9564 restograde -7750 May 7 j 00:20 18°S93405 2°38 2°29 restograde -7750 May 7 j 00:20 18°S93405 2°38 2°22 restograde -7757 Aug 24 j 02:04 4°S24122 2°1917 restograde -7757 Sep 08 j 03:00 4°S23127 31.29180 AU conjunction -7750 Sep 07 j 16:49 19°S9385 2°28 morning rise -7757 Sep 08 j 03:00 4°S5211 31.29180 AU restograde -7750 Sep 07 j 16:49 19°S9385 2°29 restograde -7757 Sep 08 j 03:00 4°S5211 restograde -7750 Sep 07 j 16:49 19°S9382 2°29 restograde -7750 Sep 07 j 16:49 19°S9382 2°29 restograde -7750 Sep 07 j 16:49 9°S9382 2°29 restograde -7750 Sep 07 j 16:49 9°S93832 31.26 <td>-</td> <td></td> <td>2°©47'23</td> <td></td> <td>minimum elong</td> <td></td> <td></td> <td></td>	-		2° © 47'23		minimum elong			
min. Earth dist. -7757 Feb 19 j 21:14 3°8218°0 29.29375 AU retrograde -7751 Dec 17 j 10:13 19°25645 24 dricet -7757 Aug 10 j 13:14 1°85645°1 -76050 Aug 20 j 10:20 18°83405 29.28 conjunction -7757 Aug 24 j 02:04 4°82422 2°1847 evening set -7750 Aug 23 j 10:20 1°920505 minimum elong -7757 Aug 24 j 02:04 4°82422 2°1917 -7750 Aug 23 j 10:20 1°93085 2°22 max. Earth dist. -7757 Sep 08 j 03:00 4°82312 3°1.29180 AU conjunction -7750 Sep 07 j 16:49 1°93385 2°29 retrograde -7757 Fbc 04 j 14:00 6°85202 minimum elong -7750 Sep 07 j 16:49 1°93385 2°29 direct -7756 Feb 2 j 10:40 6°85202 2°29234 retrograde -7750 Sep 07 j 16:49 1°93385 2°29 direct -7756 May 13 j 02:32 4°80553 cevering set -7750 Sep 02 j 11:30 2°902712 retrograde -7750 Nag 07 j 02:49 2°902712 1°900000 2°90272 retrograde -7750 Nag 07 j 02:49	retrograde	,	4° © 41'03			1 3		31.27150 AU
direct -7757 May 11 j 1542 1°954'54 opposition -7750 Mar 07 j 04.26 18°93'05 2°38'05'22 conjunction -7757 May 24 j 02.04 4°92'22 2°18'47 evening set -7750 May 27 j 00.23 179'01'01'01'01'01'01'01'01'01'01'01'01'01'	opposition		3° © 18'53	2°27'06	-		18° © 02'17	
evening set -7757 Aug 08 j 23:31 3°850'22 - 100 (direct of 7750 May 07 j 00;26) 18°83'345 29.27 (direct of 7750 May 27 j 00;26) 18°83'345 29.27 (direct of 7750 May 27 j 00;26) 18°83'345 29.27 (direct of 7750 May 27 j 00;26) 18°83'345 29.27 (direct of 7750 May 27 j 10;26) 18°83'345 29.27 (direct of 7750 May 27 j 10;26) 18°90'508 20.20 (direct of 7750 May 27 j 10;26) 19°90'508 20.20 (direct of 7750 May 27 j 10;26) 19°90'508 20.20 (direct of 7750 May 27 j 10;26) 19°90'508 20.20 (direct of 7750 May 27 j 10;26) 19°90'508 20.20 (direct of 7750 May 27 j 10;26) 19°90'508 20.20 (direct of 7750 May 77 j 10;40) 19°90'508 20.20 (direct of 7750 May 77 j 10;40) 19°90'508 20.20 (direct of 7750 May 77 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 19°90'508 20.20 (direct of 7750 May 07 j 10;40) 10°90'508 20.20 (direct of 7750 May 07 j 10;40) 10°90'508 20.2	min. Earth dist.	·		29.29375 AU	•	•	19° © 56'45	
conjunction -7757 Aug 24 j 02-04 4 ®24 22 2*1847 evening set -7750 Aug 23 j 16-26 19*2008 1*2*0008	direct	-7757 May 11 j 15:42	1° 9 54'54		opposition	3	18° © 34'05	2°38'31
conjunction -7757 Aug 24 j 0.204 4°924'22 2°18'47 evening set -7750 Aug 23 j 16:26 9°905'08 -18 max. Earth dist. -7757 Aug 23 j 14:36 4°923'173 1.29180 AU onjunction -7750 Sep 07 j 16:49 19°938'55 2°28 morning rise -7757 Sep 08 j 03:00 4°923'17 max. Earth dist. -7750 Sep 07 j 16:49 19°938'55 2°29 opposition -7756 Feb 2 j 12:30 8°929'03 29.2932 morning rise -7750 Sep 07 j 16:49 19°938'35 3°22'07'2 direct -7756 Feb 2 j 12:00 8°929'03 29.2932 morning rise -7750 Sep 07 j 16:49 2°20'212'6 evening set -7756 Aug 10 j 09:00 6°905'11 6°905'11 opposition -7749 Mar 09 j 11:71 20°944'12'2 2°20'20 conjunction -7756 Aug 25 j 11:13 6°935'14 2°20'49 evening set -7749 Mar 09 j 11:71 20°920'85 ***** minimum elong -7756 Aug 25 j 11:13 6°935'14 2°212'1 minimum elong 7749 Mar 09 j 12:31 9°90'005'8 ***** 1°992'15'3 2°29'10'15'3 </td <td>evening set</td> <td>-7757 Aug 08 j 23:31</td> <td>3°©50'22</td> <td></td> <td>min. Earth dist.</td> <td>-</td> <td>18°©33'45</td> <td>29.27204 AU</td>	evening set	-7757 Aug 08 j 23:31	3° © 50'22		min. Earth dist.	-	18° © 33'45	29.27204 AU
minimum elong -7757 Aug 24 j 0.204 4°924'22 2°1917 conjunction -7750 Sep 07 j 16.49 1°938'59 2°228 max. Earth dist. -7757 Aug 23 j 14.30 4°923'17 31.29180 AU minimum elong -7750 Sep 07 j 16.49 1°938'59 2°228 retrograde -7757 Dec 04 j 14.00 6°95'202 cmomin grise -7750 Sep 07 j 12.00 1°938'32 31.20 opposition -7756 Feb 2 j 10.40 6°95'202 2°2923 morning rise -7750 Sep 07 j 12.00 1°938'32 32.20 direct -7756 May 13 j 02:32 4°905'53 0.99324 AU retrograde -7750 Dec 10 j 19:33 2°207'22 direct -7756 May 13 j 02:32 4°905'53 0.99324 AU retrograde -7750 May 0.90 j 11:51 0°930'13 0°901'16 min Earth dist. 0°7749 Mar 09 j 11:51 0°934'12 2°204 verning set -7749 Mar 09 j 11:51 0°9320'8 0°901'15 0°934'12 2°210 0°901'15 0°934'12 0°901'15 0°901'15 0°901'15 0°901'15 0°901'15 0°901'15 0°901'15 0°901'15 0°901'15								
max. Earth dist. -7757 Aug 23 j 14:36 4°953*17 31.29180 AU conjunction -7750 Sep 07 j 16:49 19°93*859 2°28 morning rise -7755 Peb 08 j 19:00 4°955*14 minimum clong -7750 Sep 07 j 12:07 19°93*859 2°29 opposition -7756 Feb 21 j 23:08 5°92949 2°2923 morning rise -7750 Sep 07 j 12:07 2°90372 1°93873 2°2072 opposition -7756 Feb 21 j 10:40 5°92903 29.29324 AU retrograde -7750 Sep 07 j 12:07 2°90472 2°90472 direct -7756 Aug 10 j 09:05 6°935'14 2°2049 evening set -7749 Mar 09 j 17:17 20°94742 2°924 conjunction -7756 Aug 25 j 11:13 6°935'14 2°2019 evening set -7749 Mar 09 j 17:17 2°924078 2°12912 max. Earth dist. -7756 Aug 25 j 11:13 6°935'14 2°2121 evening set -7749 Mar 09 j 17:17 2°929278 2°129278 2°12912 evening set -7749 Mar 09 j 10:37 2°93078 2°129278 2°129279 avening set -7749 Mar 09 j 10:37 2°936781			4° 5 24'22	2°18'47	evening set	-7750 Aug 23 j 16:26	19° © 05'08	
moming rise -7757 Sep 08 j 03:00 4°95814 minimum elong -7750 Sep 07 j 16:49 19°93859 2°292 retrograde opposition -7756 Feb 2 j 12:308 5°92949 2°2923 moming rise -7750 Sep 07 j 12:07 19°93873 31.26 min. Earth dist. -7756 Feb 2 2 j 10:40 5°92993 29.29324 AU retrograde -7750 Nep 07 j 12:07 19°93873 31.26 direct -7756 Feb 2 2 j 10:40 5°92993 29.29324 AU retrograde -7750 Nep 07 j 17:17 20°94440 2°3072 direct -7756 Aug 10 j 09:05 6°93514 2°2049 evening set -7749 Mar 09 j 17:17 20°94440 2°30 conjunction -7756 Aug 25 j 11:13 6°93514 2°2049 evening set -7749 Mar 09 j 12:35 19°92088 19°92083 2°29 max. Earth dist. -7756 Aug 25 j 11:13 6°93514 2°2121 evening set -7749 Mar 09 j 12:35 2°93123 2°29 moming rise -7756 Aug 25 j 11:12 6°93514 2°2121 max. Earth dist. -7749 Sep 10 j 01:37 2°946943 2°229 retr	Č							
retrograde -7757 Dec 04 j 14:00 6°®52'02 max. Earth dist. -7750 Sep 07 j 12:07 19°®38'32 31.26° opposition -7756 Feb 22 j 10:40 6°®29'03 2°92'93 moming rise -7750 Dec 19 j 19'38 2°90'07'22 -750 Dec 19 j 19'38 2°90'07'22 -750 Dec 19 j 19'38 2°90'07'22 -750 Dec 19 j 19'38 2°90'07'22 -7750 Dec 19 j 19'38 2°90'07'22 2°90'07'22 -7749 Mar 09 j 11'71 20°®44'12 2°90'07'22 2°90'07'22 2°90'08'10' direct -7749 Mar 09 j 11'71 20°®44'12 2°90'08'02' direct -7749 Mar 09 j 11'71 20°®44'12 2°90'08'02' direct -7749 Mar 09 j 11'71 20°®4'12 2°90'08'02' evening set -7749 Mar 09 j 11'71 20°®4'12 2°90'02' 4°90'09'03'0 evening set -7749 Mar 09 j 11'71 20°®4'12 2°90'02'8 2°90'11'12 2°90'02'3 2°90'04'04 2°91'12 2°90'12'3 2°90'05'3 2°90'04'04 2°91'12'12 2°90'05'3 2°90'05	max. Earth dist.		4° © 23'17	31.29180 AU	3		19° © 38'59	2°28'43
opposition min. Earth dist. -7756 Feb 2 j j 23.08 5°®29'93 2°29'23 morning rise -7750 Sep 2 j 16.29 2°6°216'24 2°29'07'25 direct -7756 Feb 2 j 19:30 2°29'07'22 *°29'07'25 retrograde -7750 May 10 j 0:32 2°20'07'22 2°20'07'22 2°20'07'22 2°20'07'25 2°20'07'25 2°20'07'25 2°20'07'25 3°20'07'25	•							
min. Earth dist. -7756 Feb 2j 10:40 \$®2903 29.29324 AU retrograde -7750 Dec 19 j 19:38 22°9072 2 deceding direct -7756 May 13 j 02:32 4°90553 opposition -7749 Mar 09 j 17:17 20°94440 2°39 evening set -7756 Aug 10 j 09:05 6°901'1 -706 em inition -7749 Mar 09 j 17:17 20°944'2 2°20'2 conjunction -7756 Aug 25 j 11:13 6°935'14 2°20'49 evening set -7749 Mar 09 j 10:17 21°95'03 2°20'49 max. Earth dist. -7756 Aug 25 j 10:130 6°935'11 2°21'21 -7756 Aug 25 j 10:130 6°935'13 31.29055 AU minimum elong -7749 Sep 10 j 01:37 21°94'93 2°29'2 retrograde -7756 Dec 06 j 00:36 9°90'30'0 minimum elong -7749 Sep 10 j 01:37 21°94'93 2°29'2 retrograde -7755 Feb 23 j 11:59 7°940'04 2°31'27 morning rise -7749 Sep 10 j 01:37 21°94'93 2°29'32'2 retrograde -7755 May 15 j 14:57 6°916'50 morning rise -7749 Sep 2 5 j 01:20 22°95'52'12 2°30'2 direct	retrograde							31.26871 AU
direct -7756 May 13 j 02:32 4°90573 opposition -7749 Mar 09 j 17:17 20°944'0 2°39 evening set -7756 Aug 10 j 09:05 6°901'16 min. Earth dist. -7749 Mar 09 j 11:57 20°964'21 29.26 conjunction -7756 Aug 25 j 11:13 6°935'14 2°20'49 evening set -7749 Aug 26 j 01:27 21°96'93 2°20'19 max. Earth dist. -7756 Aug 25 j 01:12 6°935'14 2°21'21 -7756 Aug 25 j 01:37 21°96'93 2°29 morning rise -7756 Caug 25 j 01:15 7°900'90' min. Earth dist. -7749 Sep 10 j 01:37 21°96'933 2°29 ertertograde -7756 Dec 06 j 00:36 9°90'30'0 max. Earth dist. -7749 Sep 09 j 21:55 21°96'910 21°96'91	1.1	-			•			
evening set				29.29324 AU	- C	-		
conjunction -7756 Aug 25 j 11:13 6°\$35'14 2°20'49 evening set -7749 Aug 26 j 01:25 1°20'54'S 2°20'49 max. Earth dist. -7756 Aug 25 j 11:12 6°\$35'14 2°21'21 conjunction -7749 Sep 10 j 01:37 21°\$95'33 2°29'12 max. Earth dist. -7756 Aug 25 j 00:30 6°\$35'14 2°1'12 conjunction -7749 Sep 10 j 01:37 21°\$94'93 2°29'80'30 morning rise -7756 Dec 06 j 00:36 9°\$03'00 max. Earth dist. -7749 Sep 10 j 01:37 21°\$94'91 31.26'05'90'90'90'90'90'90'90'90'90'90'90'90'90'						•		
conjunction -7756 Aug 25 j 11:13 6°935'14 2°20'49 evening set -7749 Aug 26 j 01:27 2°10'35 2°10'35 minimum elong -7756 Aug 25 j 11:12 6°935'14 2°21'21 2°21'21 max. Earth dist. -7756 Sep 09 j 11:51 7°90'90'5 conjunction -7749 Sep 10 j 01:37 21°94'933 2°29'00'00'00'00'00'00'00'00'00'00'00'00'00	evening set	-7756 Aug 10 j 09:05	6° © 01'16			,		29.26979 AU
minimum elong -7756 Aug 25 j 11:12 6°®35'14 2°21'21 max. Earth dist. -7756 Aug 25 j 00:30 6°®34'13 31.29055 AU conjunction -7749 Sep 10 j 01:37 21°849'33 2°29 morning rise -7756 Dec 06 j 00:36 9°®03'00 max. Earth dist. -7749 Sep 10 j 01:37 21°849'33 2°29 opposition -7755 Feb 23 j 11:59 7°®40'44 2°31'27 morning rise -7749 Sep 25 j 01:20 22°29:212 13.26 direct -7755 Feb 23 j 11:59 7°®40'40 2°31'27 morning rise -7749 Sep 25 j 01:20 22°29:21 2°39 evening set -7755 Feb 23 j 21:55 7°®40'40 2°29122 AU retrograde -7749 Mar 11 j 06:07 22°85'21 2°39 evening set -7755 Aug 27 j 20:20 8°®46'04 2°22'39 evening set -7748 Mar 11 j 06:07 22°85'12 2°39'10 max. Earth dist. -7755 Aug 27 j 20:20 8°®46'04 2°22'39 evening set -7748 Sep 11 j 00:33 2°4°800'15 2°29'10 max. Earth dist. -7755 Aug 27 j 20:20 8°®46'04 2°22'10								
max. Earth dist. -7756 Aug 25 j 00:30 6°®34'13 31.29055 AU conjunction -7749 Sep 10 j 01:37 21°849'33 2°29 morning rise -7756 Sep 09 j 11:51 7°®09'05 minimum elong -7749 Sep 10 j 01:37 21°849'33 2°29 opposition -7755 Feb 23 j 11:59 7°®40'04 2°31'27 morning rise -7749 Sep 09 j 21:35 21°849'10 31.26'05'05'05'05'05'05'05'05'05'05'05'05'05'	,	• •			evening set	-7749 Aug 26 j 01:27	21° © 15'43	
morning rise -7756 Sep 09 j 11:51 7°®09'05 minimum elong -7749 Sep 10 j 01:37 21°®49'33 2°229 retrograde -7756 Dec 06 j 00:36 9°®03'00 max. Earth dist. -7749 Sep 09 j 21:35 21°®49'10 31.26 opposition -7755 Feb 23 j 11:59 7°®40'44 2°31'27 morning rise -7749 Sep 09 j 21:35 21°®49'10 31.26 direct -7755 Feb 23 j 21:55 7°®40'04 29.29122 AU retrograde -7749 Dec 2j 07:34 24°®180'5 2°32'21 evening set -7755 May 15 j 14:57 6°®16'50 opposition -7748 Mar 11 j 06:07 22°®55'12 2°39 evening set -7755 May 27 j 20:20 8°®46'04 2°22'39 evening set -7748 May 3 j 00:45 21°®31'44 conjunction -7755 Aug 27 j 20:20 8°®46'04 2°22'39 evening set -7748 Sep 11 j 10:23 24°®00'15 2°29 max. Earth dist. -7755 Aug 27 j 20:20 8°®46'04 2°23'10 revening set -7748 Sep 11 j 10:23 24°®00'15 2°29 morning rise -7755 Dec 08 j 12:38 11°20'13'	_							
retrograde				31.29055 AU	3			2°29'18
opposition -7755 Feb 23 j 11:59 7°\$40'44 2°31'27 morning rise -7749 Sep 25 j 01:20 22°\$23'21 degral of the composition -7745 Feb 23 j 21:55 7°\$40'04 29.29122 AU retrograde -7749 Dec 22 j 07:34 24°\$18'05 23°\$10'05 23°\$10'05	-				2	1 3		2°29'48
min. Earth dist. -7755 Feb 23 j 21:55 7°840′04 29.29122 AU retrograde -7749 Dec 22 j 07:34 24°918′05 20°38′06′06′00 20°39′00 20°39′00 20°30′00 20°	-							31.26701 AU
direct -7755 May 15 j 14:57 6°B1650 opposition -7748 Mar 11 j 06:07 22°S55'12 2°39 evening set -7755 Aug 12 j 18:39 8°B12'08 min. Earth dist. -7748 Mar 11 j 08:35 22°S55'12 29.26 conjunction -7755 Aug 27 j 20:20 8°B46'04 2°22'39 evening set -7748 Aug 27 j 10:23 23°B26'25 12°B31'44 conjunction -7755 Aug 27 j 20:20 8°B46'04 2°22'10 2°30'10 2°4°B00'15 2°29'10 max. Earth dist. -7755 Aug 27 j 09:45 8°B45'04 31.28782 AU conjunction -7748 Sep 11 j 10:23 24°B00'15 2°29'800'15 retrograde -7755 Dec 08 j 12:38 11°B13'56 max. Earth dist. -7748 Sep 11 j 07:38 23°B5'95 2°30'18 opposition -7754 Feb 26 j 10:52 9°B51'36 2°33'18 morning rise -7748 Nep 26 j 10:04 24°B00'15 2°30'15 direct -7754 May 18 j 00:39 8°B27'43 opposition -7747 Mar 13 j 19:15 25°B06'13 2°40'20'15 evening set -7754 Aug 30 j 05:22 10°B22'55 min. Earth di		·			-			
evening set		·		29.29122 AU	•	-		
direct -7748 May 31 j 00:45 21°331'44 20°23'10 23°326'25		, ,				J		
conjunction -7755 Aug 27 j 20:20 8°\$46'04 2°22'39 evening set -7748 Aug 27 j 10:23 23°\$26'25 Indicates the proposition minimum elong -7755 Aug 27 j 20:20 8°\$46'04 2°23'10 conjunction -7748 Sep 11 j 10:23 24°\$00'15 2°29'10 max. Earth dist. -7755 Aug 27 j 09:45 8°\$45'04 31.28782 AU conjunction -7748 Sep 11 j 10:23 24°\$00'15 2°29'10 morning rise -7755 Dec 08 j 12:38 11°\$13'56 minimum elong -7748 Sep 11 j 10:23 24°\$00'15 2°30'18 opposition -7754 Feb 26 j 00:59 9°\$51'36 2°33'18 morning rise -7748 Sep 11 j 07:38 23°\$59'59 31.26' direct -7754 Feb 26 j 10:52 9°\$50'56 29.28802 AU retrograde -7748 Dec 23 j 18:00 26°\$28'58' 4 direct -7754 May 18 j 00:39 8°\$27'43 opposition -7747 Mar 13 j 19:15 25°\$06'03 2°40' evening set -7754 Aug 30 j 05:22 10°\$22'55 min. Earth dist. -7747 Mar 13 j 21:41 25°\$06'03' 29'\$00'56'49 2°24'16 evening set <td>evening set</td> <td>-7/55 Aug 12 j 18:39</td> <td>8°212'08</td> <td></td> <td></td> <td></td> <td></td> <td>29.26841 AU</td>	evening set	-7/55 Aug 12 j 18:39	8°212'08					29.26841 AU
minimum elong -7755 Aug 27 j 20:20 8°S46'04 2°23'10 max. Earth dist. -7755 Aug 27 j 09:45 8°S45'04 31.28782 AU conjunction -7748 Sep 11 j 10:23 24°S00'15 2°29 morning rise -7755 Dec 08 j 12:38 11°S13'56 minimum elong -7748 Sep 11 j 10:23 24°S00'15 2°30 retrograde -7755 Dec 08 j 12:38 11°S13'56 max. Earth dist. -7748 Sep 11 j 07:38 23°S59'59 31.26 opposition -7754 Feb 26 j 00:59 9°S51'36 2°33'18 morning rise -7748 Dec 26 j 10:04 24°S04'04 2°30'18 direct -7754 Feb 26 j 10:52 9°S50'56 29.28802 AU retrograde -7748 Dec 23 j 18:00 26°S28'58 2°40'00'15 2°40'00'15 2°40'00'15 2°20'00'15 2°40'00'15 2°20'00'15 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15 2°50'00'13 2°40'00'15		7755 1 27:20:20	000010101	2022120				
max. Earth dist. -7755 Aug 27 j 09:45 8°\$45'04 31.28782 AU conjunction -7748 Sep 11 j 10:23 24°\$00'15 2°29 morning rise -7755 Sep 11 j 20:48 9°\$19'54 minimum elong -7748 Sep 11 j 10:23 24°\$00'15 2°30 retrograde -7755 Dec 08 j 12:38 11°\$13'56 max. Earth dist. -7748 Sep 11 j 07:38 23°\$59'59 31.26 opposition -7754 Feb 26 j 00:59 9°\$51'36 2°33'18 morning rise -7748 Sep 26 j 10:04 24°\$34'04 2°33'18 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 2°30'11 </td <td>•</td> <td></td> <td></td> <td></td> <td>evening set</td> <td>-//48 Aug 2/j 10:23</td> <td>25~26'25</td> <td></td>	•				evening set	-//48 Aug 2/j 10:23	25~26'25	
morning rise	_	C 3				7740.0 11:10.00	240	2020140
retrograde				31.28/82 AU				2°29'40
opposition -7754 Feb 26 j 00:59 9°®51'36 2°33'18 morning rise -7748 Sep 26 j 10:04 24°®34'04 retrograde -7748 Dec 23 j 18:00 26°®28'58 direct -7754 Feb 26 j 10:52 9°®50'56 29.28802 AU retrograde -7748 Dec 23 j 18:00 26°®28'58 2°40 retrograde -7747 Mar 13 j 19:15 25°®06'13 2°40 retrograde -7747 Mar 13 j 21:41 25°®06'03 29.26 2°40 retrograde -7747 Mar 13 j 21:41 25°®06'03 29.26 2°20'03 2°20'11:18 23°®42'41 2°20'03 2°20'03 2°20'03 2°20'03 2°20'03 2°20'03 2°20'03 2°20'03 2°20'03'03 2°20'03'03 2°20'03'03 2°20'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03 2°20'03'03'03'03 2°20'03'03'03'03 2°20'03'03'03'03 2°20'03'03'03'03 2°20'03'03'03'03 2°20'03'03'03'03 2°20'03'03'03'03'03'03'03'03'03'03'03'03'03	•							2°30'11
min. Earth dist.	•			2022110				31.26383 AU
direct -7754 May 18 j 00:39 8°\$27'43 opposition -7747 Mar 13 j 19:15 25°\$06'13 2°40'0 min. Earth dist. evening set -7754 Aug 15 j 03:52 10°\$22'55 min. Earth dist. -7747 Mar 13 j 19:15 25°\$06'03 29.26'0 min. Earth dist. conjunction -7754 Aug 30 j 05:22 10°\$56'49 2°24'16 evening set -7747 Aug 29 j 19:23 25°\$37'18 minimum elong -7754 Aug 30 j 05:22 10°\$56'49 2°24'49 max. Earth dist. -7754 Aug 29 j 20:22 10°\$55'58 31.28408 AU conjunction -7747 Sep 13 j 19:19 26°\$11'07 2°29'0 minimum elong retrograde -7754 Dec 10 j 22:49 13°\$24'46 max. Earth dist. -7747 Sep 13 j 17:56 26°\$11'07 2°30'0 minimum elong opposition -7753 Feb 28 j 13:52 12°\$02'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°\$44'57		-			-			
evening set				29.28802 AU	•	-		2040102
direct -7747 Jun 02 j 11:18 23°S42'41 conjunction -7754 Aug 30 j 05:22 10°S56'49 2°24'16 evening set -7747 Aug 29 j 19:23 25°S37'18 minimum elong -7754 Aug 30 j 05:22 10°S56'49 2°24'49 max. Earth dist7754 Aug 29 j 20:22 10°S55'8 31.28408 AU conjunction -7747 Sep 13 j 19:19 26°S11'07 2°29 morning rise -7754 Sep 14 j 05:32 11°S30'38 minimum elong -7747 Sep 13 j 19:19 26°S11'07 2°30 retrograde -7754 Dec 10 j 22:49 13°S24'46 max. Earth dist7747 Sep 13 j 17:56 26°S11'05 31.28409 opposition -7753 Feb 28 j 13:52 12°S02'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°S44'57						•		
conjunction -7754 Aug 30 j 05:22 10°©56'49 2°24'16 evening set -7747 Aug 29 j 19:23 25°©37'18 Land 10° minimum elong -7754 Aug 30 j 05:22 10°©56'49 2°24'49 2°24'49 2°24'49 2°24'49 2°24'49 2°24'49 2°24'49 2°29'49 2°29'49 2°29'49 2°29'49 2°29'49 2°29'49 2°30'49	evening set	-//54 Aug 15 J 03:52	10~222'55					29.26/45 AU
minimum elong -7754 Aug 30 j 05:22 10°\$56'49 2°24'49 max. Earth dist. -7754 Aug 29 j 20:22 10°\$55'58 31.28408 AU conjunction -7747 Sep 13 j 19:19 26°\$11'07 2°29 morning rise -7754 Sep 14 j 05:32 11°\$30'38 minimum elong -7747 Sep 13 j 19:19 26°\$11'07 2°30 retrograde -7754 Dec 10 j 22:49 13°\$24'46 max. Earth dist. -7747 Sep 13 j 17:56 26°\$10'59 31.26 opposition -7753 Feb 28 j 13:52 12°\$02'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°\$44'57		7754 4 20:05.25	10005000	2024117		3		
max. Earth dist. -7754 Aug 29 j 20:22 10°S55'58 31.28408 AU conjunction -7747 Sep 13 j 19:19 26°S11'07 2°29 morning rise -7754 Sep 14 j 05:32 11°S30'38 minimum elong -7747 Sep 13 j 19:19 26°S11'07 2°30 retrograde -7754 Dec 10 j 22:49 13°S24'46 max. Earth dist. -7747 Sep 13 j 17:56 26°S10'59 31.26 opposition -7753 Feb 28 j 13:52 12°S02'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°S44'57		• •			evening set	-//4/ Aug 29 j 19:23	25~2037/18	
morning rise -7754 Sep 14 j 05:32 11°S30'38 minimum elong -7747 Sep 13 j 19:19 26°S11'07 2°30 retrograde -7754 Dec 10 j 22:49 13°S24'46 max. Earth dist7747 Sep 13 j 17:56 26°S10'59 31.26 opposition -7753 Feb 28 j 13:52 12°S02'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°S44'57	_					7747 6 12:10:10	26051110=	2020140
retrograde -7754 Dec 10 j 22:49 13°524'46 max. Earth dist7747 Sep 13 j 17:56 26°510'59 31.26 opposition -7753 Feb 28 j 13:52 12°502'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°544'57				31.28408 AU	•			2°29'49
opposition -7753 Feb 28 j 13:52 12°502'21 2°34'56 morning rise -7747 Sep 28 j 18:58 26°544'57	•				- C			2°30'19
	-			20245				31.26499 AU
		·			•			
·	min. Earth dist.	-7753 Feb 28 j 22:32		29.28381 AU	retrograde	-7747 Dec 26 j 04:44	28°540'00	204010.7
direct -7753 May 20 j 13:22 10°538'29 opposition -7746 Mar 16 j 08:15 27°517'14 2°40						3		
evening set -7753 Aug 17 j 13:15 12°©33'35 min. Earth dist7746 Mar 16 j 08:48 27°©17'12 29.26	evening set	-//55 Aug 1/j 13:15	12~2033'35		min. Earth dist.	-//46 Mar 16 J 08:48	17/12 في 2/	29.26646 AU

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7746 in astronomical counting style is the year 7747 BCE in historical counting style. -7746 Jun 04 j 22:50 25°953'47 minimum elong -7740 Sep 28 i 10:42 11°Ω29'30 2°25'19 direct -7746 Sep 01 j 04:26 27°5548'20 -7740 Sep 28 j 14:40 11°**Ω**29'52 31.23326 AU evening set max. Earth dist. -7740 Oct 13 j 11:32 12°**Ω**03′26 morning rise -7739 Jan 10 j 17:16 13°**Ω**59'19 -7746 Sep 16 j 04:11 28°522'10 2°29'45 conjunction retrograde -7746 Sep 16 j 04:11 -7739 Apr 01 j 04:20 12°**Ω**36'01 2°34'01 minimum elong 28°522'10 2°30'15 opposition -7746 Sep 16 j 03:03 -7739 Mar 31 j 22:55 max. Earth dist. 28°522'03 31.26374 AU min. Earth dist. 12°**Ω**36'23 29.23144 AU -7746 Oct 01 j 04:01 -7739 Jun 20 j 06:43 morning rise 28°956'00 direct 11°**Ω**12'47 -7746 Nov 02 j 02:01 0° Ω evening set -7739 Sep 15 j 19:37 13°**Ω**06'36 retrograde -7746 Dec 28 j 17:03 0°**Ω**51'13 -7745 Feb 26 j 19:29 30°Rூ conjunction -7739 Sep 30 j 19:45 13°**Ω**40'27 2°23'20 29°528'25 2°39'54 opposition -7745 Mar 18 j 21:26 minimum elong -7739 Sep 30 j 19:45 13°**Ω**40'27 2°23'44 -7739 Oct 01 j 00:48 min. Earth dist. -7745 Mar 18 j 21:50 29°528'23 29.26492 AU max. Earth dist. 13°**Ω**40'56 31.22598 AU -7739 Oct 15 j 20:54 direct -7745 Jun 07 j 07:34 28°905'03 morning rise 14°**Ω**14'25 evening set -7745 Sep 03 j 13:29 29°959'31 -7739 Nov 06 j 16:18 15°€ -7745 Sep 03 j 18:39 $0^{\circ}\Omega$ retrograde -7738 Jan 13 j 03:35 16°Ω10'25 -7738 Mar 26 j 16:04 15°R€ conjunction -7745 Sep 18 j 13:18 0°Ω33'21 2°29'28 opposition -7738 Apr 03 j 17:30 14°**Ω**47'00 2°32'15 minimum elong -7745 Sep 18 j 13:19 0°**Ω**33'21 2°29'56 min. Earth dist. -7738 Apr 03 j 11:59 14°**Ω**47'23 29.22456 AU max. Earth dist. -7745 Sep 18 j 13:47 0°**Ω**33'24 31.26168 AU direct -7738 Jun 22 j 17:36 13°**Ω**23'48 morning rise -7745 Oct 03 j 13:04 1°**Ω**07'12 -7738 Sep 10 j 03:32 15°Ω retrograde -7745 Dec 31 j 04:00 3°**Ω**02'34 evening set -7738 Sep 18 j 04:26 15°**Ω**17'30 opposition -7744 Mar 20 j 10:27 1°**Ω**39'43 2°39'29 min. Earth dist. -7744 Mar 20 j 09:42 1°**Ω**39'46 29.26221 AU conjunction -7738 Oct 03 i 04:50 15°Ω51'22 2°21'35 direct -7744 Jun 08 j 19:48 0°Ω16'25 minimum elong -7738 Oct 03 i 04:51 15°Ω51'22 2°21'59 evening set -7744 Sep 04 j 22:44 2°Ω10'49 max. Earth dist. -7738 Oct 03 j 11:33 15°Ω52'00 31.21957 AU -7738 Oct 18 j 06:15 16°Ω25'22 morning rise -7744 Sep 19 j 22:21 2°Ω44'38 2°28'58 -7737 Jan 15 j 14:08 18°Ω21'27 conjunction retrograde -7744 Sep 19 j 22:21 2°Ω44'38 2°29'27 opposition -7737 Apr 06 j 06:27 16°Ω57'59 2°30'16 minimum elong -7744 Sep 19 j 22:31 2°**Ω**44'39 31.25840 AU -7737 Apr 05 j 22:48 max. Earth dist. min. Earth dist. 16°Ω58'30 29.21848 AU -7744 Oct 04 j 22:23 morning rise 3°**Ω**18'30 -7737 Jun 25 j 05:33 15°**Ω**34'48 direct 5°**Ω**14'00 -7743 Jan 01 j 17:45 -7737 Sep 20 j 13:23 17°**Ω**28'25 retrograde evening set -7743 Mar 22 j 23:44 3°Ω51'05 2°38'50 opposition min. Earth dist. -7737 Oct 05 j 13:51 18°**Ω**02'19 2°19'37 -7743 Mar 22 j 22:17 3°**Ω**51'11 29.25829 AU conjunction -7743 Jun 11 j 06:03 2°**Ω**27'49 -7737 Oct 05 j 13:52 18°Ω02'19 2°20'00 direct minimum elong 4°**Ω**22'07 -7737 Oct 05 j 20:54 18°**Ω**02'59 31.21395 AU evening set -7743 Sep 07 j 07:41 max. Earth dist. -7737 Oct 20 j 15:43 18°**Ω**36′20 morning rise -7743 Sep 22 j 07:30 4°Ω55'57 2°28'16 -7736 Jan 18 j 02:11 20°**Ω**32'34 conjunction retrograde minimum elong -7743 Sep 22 j 07:31 4° Ω 55'57 2°28'43 opposition -7736 Apr 07 j 19:29 19°**Ω**09'02 2°28'04 max. Earth dist. -7743 Sep 22 j 09:28 4°**Ω**56'08 31.25372 AU min. Earth dist. -7736 Apr 07 j 11:22 19°**Ω**09'35 29.21333 AU morning rise -7743 Oct 07 j 07:33 5°**Ω**29'50 direct -7736 Jun 26 j 14:35 17°**Ω**45'55 retrograde -7742 Jan 04 j 05:13 $7^{\circ}\Omega 25'27$ -7736 Sep 21 j 22:12 19°**Ω**39'26 evening set -7742 Mar 25 j 13:02 6°Ω02'28 2°37'58 opposition -7742 Mar 25 j 11:11 6°**Ω**02'35 29.25284 AU -7736 Oct 06 j 23:06 20°Ω13'22 2°17'27 min. Earth dist. conjunction -7742 Jun 13 j 18:20 4°**Ω**39'13 -7736 Oct 06 j 23:06 20°**Ω**13'22 2°17'51 direct minimum elong -7742 Sep 09 j 16:52 6°**£**33'24 -7736 Oct 07 j 08:13 20°**Ω**14'14 31.20925 AU evening set max. Earth dist. 20°**Ω**47'25 morning rise -7736 Oct 22 i 01:12 7°**Ω**07'14 2°27'21 conjunction -7742 Sep 24 i 16:37 retrograde -7735 Jan 19 i 13:23 $22^{\circ}\Omega 43'47$ minimum elong -7742 Sep 24 i 16:37 7°**Ω**07'14 2°27'48 opposition -7735 Apr 10 i 08:34 21°**Ω**20'13 2°25'38 max. Earth dist. -7742 Sep 24 i 18:25 7°**Ω**07'24 31.24775 AU min. Earth dist. -7735 Apr 09 i 22:52 21°Ω20'53 29.20879 AU -7742 Oct 09 i 17:02 7°Ω41'08 direct -7735 Jun 29 j 02:19 19°Ω57'11 morning rise -7741 Jan 06 j 17:57 9°Ω36'51 -7735 Sep 24 j 07:08 21°**Ω**50'38 retrograde evening set -7741 Mar 28 j 02:02 8°Ω13'46 2°36'52 opposition 8°**Ω**13'59 29.24628 AU -7735 Oct 09 j 08:08 22°Ω24'35 2°15'05 min. Earth dist. -7741 Mar 27 j 22:48 conjunction -7735 Oct 09 j 08:09 direct -7741 Jun 16 j 05:06 6° € 50'31 minimum elong 22°Ω24'35 2°15'27 evening set -7741 Sep 12 j 01:50 8°**Ω**44'35 max. Earth dist. -7735 Oct 09 j 17:18 22°**Ω**25'27 31.20502 AU -7735 Oct 24 j 10:51 22°**Ω**58'41 morning rise conjunction -7741 Sep 27 j 01:47 9°Ω18'26 2°26'13 retrograde -7734 Jan 22 j 03:16 24°**Ω**55'12 -7741 Sep 27 j 01:47 9°Ω18'26 2°26'39 -7734 Apr 12 j 21:43 23°Ω31'36 2°23'00 minimum elong opposition -7741 Sep 27 j 05:00 9°**Ω**18'44 31.24067 AU -7734 Apr 12 j 11:10 23°**Ω**32'19 29.20463 AU max. Earth dist. min. Earth dist. -7741 Oct 12 j 02:19 9°**£**52′21 -7734 Jul 01 j 11:31 22°**Ω**08'38 morning rise direct -7734 Sep 26 j 16:07 retrograde -7740 Jan 09 j 04:42 11°**Ω**48′09 evening set 24°**Ω**02'02 -7740 Mar 29 j 15:15 10°**Ω**24'57 2°35'33 opposition min. Earth dist. -7740 Mar 29 j 11:58 10°**Ω**25'10 29.23888 AU conjunction -7734 Oct 11 j 17:36 24° Ω36'00 2°12'31 direct -7740 Jun 17 j 18:17 9°**Ω**01'43 minimum elong -7734 Oct 11 j 17:36 24°**Ω**36'00 2°12'53 evening set -7740 Sep 13 j 10:41 10°**£**55'39 max. Earth dist. -7734 Oct 12 j 04:41 24°**Ω**37'03 31.20077 AU -7734 Oct 26 j 20:35 25°**Ω**10′09 morning rise -7740 Sep 28 j 10:41 11°Ω29'30 2°24'53 -7733 Jan 24 j 15:08 27°**Ω**06'48 conjunction retrograde

Planetary Pheno	omena of Neptune 1	from -7900	through -7398	(UT), Astrodien	st AG 18-Feb-2025	14:23,	page 14
Attention, astronom	nical year style is used: Th	ne year -7733	in astronomical co	unting style is the year	r 7734 BCE in historical c	ounting style.	
opposition	-7733 Apr 15 j 10:43	25° Ω 43'11	2°20'09	conjunction	-7727 Oct 26 j 13:02	9° ™ 59'20	1°49'23
min. Earth dist.	-7733 Apr 14 j 23:45	25° Ω 43'55	29.20009 AU	minimum elong	-7727 Oct 26 j 13:03	9° m 59'20	1°49'36
direct	-7733 Jul 03 j 22:28	24° Ω 20'17		max. Earth dist.	-7727 Oct 27 j 04:57	-	31.14381 AU
evening set	-7733 Sep 29 j 01:19	26°Ω13'38		morning rise	-7727 Nov 10 j 19:47	10° m 33'48	
e venning see	, , , , , , , , , , , , , , , , , , ,	20 001330		retrograde	-7726 Feb 09 j 04:34	12° Mp 31'11	
conjunction	-7733 Oct 14 j 02:59	26° Ω 47'38	2°09'46	opposition	-7726 May 01 j 06:27	11° MD 07'00	1°54'46
•				min. Earth dist.			
minimum elong	-7733 Oct 14 j 03:00	26° Ω 47'38			-7726 Apr 30 j 14:19		29.13977 AU
max. Earth dist.	-7733 Oct 14 j 14:00		31.19606 AU	direct	-7726 Jul 19 j 07:14	9° m/44'13	
morning rise	-7733 Oct 29 j 06:34	27° Ω 21'49		evening set	-7726 Oct 13 j 18:06	11°Mp36'54	
retrograde	-7732 Jan 27 j 05:04	29° Ω 18'38					
opposition	-7732 Apr 16 j 23:50	27° Ω 54'58	2°17'06	conjunction	-7726 Oct 28 j 22:47	12° Mp 11'08	1°45'25
min. Earth dist.	-7732 Apr 16 j 11:34	27° Ω 55'48	29.19491 AU	minimum elong	-7726 Oct 28 j 22:48	12° m 11'09	1°45'38
direct	-7732 Jul 05 j 08:32	26° Ω 32'08		max. Earth dist.	-7726 Oct 29 j 14:35	12°M/12'38	31.13363 AU
evening set	-7732 Sep 30 j 10:24	28° Ω 25'25		morning rise	-7726 Nov 13 j 06:18	12° Mp 45'40	
•				retrograde	-7725 Feb 11 j 17:13	14° m 43'07	
conjunction	-7732 Oct 15 j 12:28	28° Ω 59'28	2°06'48	opposition	-7725 May 03 j 19:12	13° m 18'50	1°50'26
minimum elong	-7732 Oct 15 j 12:29	28°Ω59'28		min. Earth dist.	-7725 May 03 j 02:18		29.13001 AU
max. Earth dist.	-7732 Oct 16 j 00:40		31.19028 AU	direct	-7725 Jul 21 j 16:17	11° m/ 56'02	29.13001 110
	,	29° Ω 33'42	31.19026 AU		,	13° Mp 48'38	
morning rise	-7732 Oct 30 j 16:27			evening set	-7725 Oct 16 j 03:22	13 11/4636	
	-7732 Nov 11 j 21:14	0° m			######################################	1.40 0015 6	104445
retrograde	-7731 Jan 28 j 17:26	1° ™ 30'38		conjunction	-7725 Oct 31 j 08:41	14° Mp 22'56	
opposition	-7731 Apr 19 j 13:10	0° Т р 06'55		minimum elong	-7725 Oct 31 j 08:42	14° Mp 22'56	
min. Earth dist.	-7731 Apr 19 j 01:05	0° Mp 07'44	29.18847 AU	max. Earth dist.	-7725 Nov 01 j 02:27	14° Mp 24'37	31.12432 AU
	-7731 Apr 23 j 19:42	30° R Ω		morning rise	-7725 Nov 15 j 16:40	14° m 57'30	
direct	-7731 Jul 07 j 21:09	28° Ω 44'09		retrograde	-7724 Feb 14 j 04:25	16° Mp 55′02	
	-7731 Sep 15 j 04:18	0° m)		opposition	-7724 May 05 j 08:04	15° m 30'40	1°45'56
evening set	-7731 Oct 02 j 19:43	0° Mp 37′21		min. Earth dist.	-7724 May 04 j 14:27	15° mp 31'52	29.12113 AU
C	v			direct	-7724 Jul 23 j 02:45	14° m 07'54	
conjunction	-7731 Oct 17 j 22:11	1° Mp 11'26	2°03'40	evening set	-7724 Oct 17 j 12:38	16° m 00'25	
minimum elong	-7731 Oct 17 j 22:12	1° Mp 11'26		evening see	772.000 17 j 12.50	10 .40020	
max. Earth dist.	-7731 Oct 17 j 22:12		31.18331 AU	conjunction	-7724 Nov 01 j 18:24	16° m 34'45	1°37'00
		1° mp 45'42	31.16331 AU	3	•		
morning rise	-7731 Nov 02 j 02:41	~		minimum elong	-7724 Nov 01 j 18:25	16° m 34'45	
retrograde	-7730 Jan 31 j 07:39	3° m/42'45		max. Earth dist.	-7724 Nov 02 j 12:26		31.11613 AU
opposition	-7730 Apr 22 j 02:14	2°Mp18'59		morning rise	-7724 Nov 17 j 03:08	17° m 09'22	
min. Earth dist.	-7730 Apr 21 j 12:34	2° m 19'54	29.18069 AU	retrograde	-7723 Feb 15 j 18:27	19° m 07'00	
direct	-7730 Jul 10 j 09:16	0° Mp 56′14		opposition	-7723 May 07 j 20:56	17° m 42'35	1°41'16
evening set	-7730 Oct 05 j 05:03	2°₩49'21		min. Earth dist.	-7723 May 07 j 01:47	17° m 43'53	29.11335 AU
				direct	-7723 Jul 25 j 12:44	16° m 19'49	
conjunction	-7730 Oct 20 j 07:54	3°₩23'28	2°00'21	evening set	-7723 Oct 19 j 22:05	18° m) 12'17	
minimum elong	-7730 Oct 20 j 07:55	3° m 23'28	2°00'39				
max. Earth dist.	-7730 Oct 20 j 20:48	3° m 24'41	31.17478 AU	conjunction	-7723 Nov 04 j 04:25	18° m 46'40	1°32'34
morning rise	-7730 Nov 04 j 13:01	3° m 57'48		minimum elong	-7723 Nov 04 j 04:26	18° m) 46'40	
retrograde	-7729 Feb 02 j 18:37	5° m 54'56		max. Earth dist.	-7723 Nov 04 j 23:46		31.10873 AU
opposition	-7729 Apr 24 j 15:28	4° mp 31'05	2°06'45	morning rise	-7723 Nov 19 j 13:46	19° mp 21'20	31.10073710
min. Earth dist.	-7729 Apr 24 j 02:21	-	2 00 43 29.17144 AU	retrograde	-7722 Feb 18 j 07:12	21° Mp 19'04	
	1 3	-	29.17144 AU	-	·	-	1027/27
direct	-7729 Jul 12 j 20:19	3° Mp 08'20		opposition	-7722 May 10 j 09:42	19° m 54'35	
evening set	-7729 Oct 07 j 14:15	5° Mp 01'21		min. Earth dist.	-7722 May 09 j 14:36		29.10624 AU
	#### C	#A** # -:-	105055	direct	-7722 Jul 28 j 00:09	18° m 31'52	
conjunction	-7729 Oct 22 j 17:38	5°₩35'29		evening set	-7722 Oct 22 j 07:36	20° m 24'17	
minimum elong	-7729 Oct 22 j 17:39	5° Mp 35'30					
max. Earth dist.	-7729 Oct 23 j 07:45	5°₩36'50	31.16504 AU	conjunction	-7722 Nov 06 j 14:32	20° m 58'43	1°27'59
morning rise	-7729 Nov 06 j 23:12	6° Mp 09′52		minimum elong	-7722 Nov 06 j 14:33	20° m 58'43	1°28'09
retrograde	-7728 Feb 05 j 05:41	8° Mp 07'05		max. Earth dist.	-7722 Nov 07 j 10:34	21°M/00'36	31.10201 AU
opposition	-7728 Apr 26 j 04:26	6° Mp 43′08	2°02'56	morning rise	-7722 Nov 22 j 00:33	21° m/33'26	
min. Earth dist.	-7728 Apr 25 j 13:44	6° 10 44'08	29.16106 AU	retrograde	-7721 Feb 20 j 21:30	23° m/31'16	
direct	-7728 Jul 14 j 09:02	5° m/20'23		opposition	-7721 May 12 j 22:24	22° m/06'45	
evening set	-7728 Oct 08 j 23:35	7° Mp 13'17		min. Earth dist.	-7721 May 12 j 01:39	-	29.09952 AU
2. J	,,20 00t 00 j 25.55	, ng 15 17		direct	-7721 Jul 30 j 11:24	20° Mp 44'04	27.07702710
conjunction	7728 Oat 24:02:17	70 m 17120	1053113				
conjunction	-7728 Oct 24 j 03:17	7° Mp 47'28		evening set	-7721 Oct 24 j 17:16	22° Mp 36'26	
minimum elong	-7728 Oct 24 j 03:17	7° Mp 47'28			######################################	220******	1000115
max. Earth dist.	-7728 Oct 24 j 17:17	-	31.15445 AU	conjunction	-7721 Nov 09 j 00:39	23° m 10'55	
morning rise	-7728 Nov 08 j 09:34	8°Mp21'53		minimum elong	-7721 Nov 09 j 00:40	23° mg 10'55	
retrograde	-7727 Feb 06 j 17:59	10° m 19'11		max. Earth dist.	-7721 Nov 09 j 21:04		31.09525 AU
opposition	-7727 Apr 28 j 17:33	8° M 55'06	1°58'56	morning rise	-7721 Nov 24 j 11:22	23° m 45'42	
min. Earth dist.	-7727 Apr 28 j 02:48	8°M 56'06	29.15036 AU	retrograde	-7720 Feb 23 j 09:41	25° Mp 43'38	
direct	-7727 Jul 16 j 18:57	7° Mp 32′20		opposition	-7720 May 14 j 11:15	24° m 19'04	1°26'23
evening set	-7727 Oct 11 j 08:41	9° m 25'07		min. Earth dist.	-7720 May 13 j 15:04	24° Mp 20'27	29.09264 AU
Č	J				, ,		

Planetary Pheno	omena of Neptune 1	from -7900	through -7398	8 (UT), Astrodiens	st AG 18-Feb-2025	14:23,	page 15
•	nical year style is used: Th		-				
direct	-7720 Jul 31 j 21:58	22° m 56'26		conjunction	-7714 Nov 24 j 03:25	8° ≏ 38'54	0°47'16
evening set	-7720 Oct 26 j 03:01	24° m/ 48' 45		minimum elong	-7714 Nov 24 j 03:26	8° ≏ 38'54	
evening sec	7720 000 20 J 05:01	2		max. Earth dist.	-7714 Nov 25 j 03:03		31.02844 AU
conjunction	-7720 Nov 10 j 11:06	25° m 23'17	1°18'27	morning rise	-7714 Dec 09 j 18:53	9° ₽ 14'04	31.02011110
minimum elong	-7720 Nov 10 j 11:07	25° m) 23'17		retrograde	-7713 Mar 11 j 01:12	11° ⊆ 12'27	
max. Earth dist.	-7720 Nov 10 j 11:07		31.08826 AU	min. Earth dist.	-7713 May 30 j 04:51		29.02385 AU
morning rise	-7720 Nov 25 j 22:21	25° m 58'07	31.08820 AU	opposition	-7713 May 30 j 04:31	9° ≏ 47'24	
retrograde	-7719 Feb 24 j 22:42			direct	-7713 May 31 j 03:33	9 = 47 24 8° £ 24'40	0 4/31
Č	,	27° Mp 56'08	1°21'09		• •		
opposition	-7719 May 16 j 23:56	26° m 31'33		evening set	-7713 Nov 11 j 01:57	10° ≏ 16'39	
min. Earth dist.	-7719 May 16 j 02:27	26° m 33'01	29.08520 AU				
direct	-7719 Aug 03 j 10:32	25°Mp08'56		conjunction	-7713 Nov 26 j 14:14	10° Ω 51'30	
evening set	-7719 Oct 28 j 13:03	27° Mp 01'13		minimum elong	-7713 Nov 26 j 14:14	10° ≏ 51'30	
				max. Earth dist.	-7713 Nov 27 j 14:32	10° £ 53'47	31.01863 AU
conjunction	-7719 Nov 12 j 21:35	27° m 35'47		morning rise	-7713 Dec 12 j 06:18	11° ≏ 26'42	
minimum elong	-7719 Nov 12 j 21:35	27° m 35′47	1°13'33	retrograde	-7712 Mar 12 j 15:10	13° ≏ 25′08	
max. Earth dist.	-7719 Nov 13 j 18:36	27° m 37'47	31.08040 AU	opposition	-7712 Jun 01 j 15:50	12° ഫ 00'02	0°41'37
morning rise	-7719 Nov 28 j 09:41	28° Mp 10'41		min. Earth dist.	-7712 May 31 j 15:30	12° ♀ 01'42	29.01457 AU
_	-7718 Feb 04 j 02:20	0∘ ত		direct	-7712 Aug 18 j 13:28	10° ≏ 37'17	
retrograde	-7718 Feb 27 j 12:06	0° ჲ 08'48		evening set	-7712 Nov 12 j 12:24	12° ≏ 29'15	
201108-11110	-7718 Mar 23 j 03:27	30°R, M⊅			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
opposition	-7718 May 19 j 12:48	28° Mp 44'09	1°15'47	conjunction	-7712 Nov 28 j 01:11	13° ഫ 04'09	0°36'14
min. Earth dist.	-7718 May 18 j 15:49		29.07681 AU	minimum elong	-7712 Nov 28 j 01:11	13° ⊆ 04'09	
			29.07081 AU	2	3		
direct	-7718 Aug 05 j 20:42	27° m 21'33		max. Earth dist.	-7712 Nov 29 j 01:48		31.00994 AU
evening set	-7718 Oct 30 j 23:06	29° m 13'47		morning rise	-7712 Dec 13 j 18:01	13° Ω 39'25	
				retrograde	-7711 Mar 15 j 03:56	15° ≏ 37'55	
conjunction	-7718 Nov 15 j 08:23	29° Mp 48'24	1°08'26	min. Earth dist.	-7711 Jun 03 j 04:22		29.00657 AU
minimum elong	-7718 Nov 15 j 08:24	29° Mp 48'24	1°08'30	opposition	-7711 Jun 04 j 04:13	14° ≏ 12'46	0°35'39
max. Earth dist.	-7718 Nov 16 j 06:38	29° m 50'30	31.07142 AU	direct	-7711 Aug 20 j 23:50	12° ≏ 50′01	
	-7718 Nov 20 j 10:59	0∘ ⊽		evening set	-7711 Nov 14 j 22:48	14° ≙ 41'59	
morning rise	-7718 Nov 30 j 20:59	0° ჲ 23'22					
retrograde	-7717 Mar 01 j 23:04	2° ₽ 21'32		conjunction	-7711 Nov 30 j 12:22	15° ≙ 16'55	0°30'37
min. Earth dist.	-7717 May 21 j 03:38	0° ჲ 58'19	29.06711 AU	minimum elong	-7711 Nov 30 j 12:22	15° ≏ 16'55	0°30'32
opposition	-7717 May 22 j 01:21	0° ჲ 56'50	1°10'19	max. Earth dist.	-7711 Dec 01 j 14:17	15° ≏ 19'22	31.00262 AU
of the second	-7717 Jun 29 j 02:07	30°R, M⊅		morning rise	-7711 Dec 16 j 05:45	15° ≏ 52'15	
direct	-7717 Aug 08 j 08:51	29° m/34'13		retrograde	-7710 Mar 17 j 18:08	17° ⊆ 50'47	
direct	-7717 Sep 16 j 05:50	0° ت		opposition	-7710 Jun 06 j 16:25	16° £ 25'37	0°20'27
ovanina aat				**	-		
evening set	-7717 Nov 02 j 09:18	1° ≏ 26′24		min. Earth dist.	-7710 Jun 05 j 15:11		28.99969 AU
				direct	-7710 Aug 23 j 12:37	15° 2 02'54	
conjunction	-7717 Nov 17 j 19:02	2° Ω 01'04		evening set	-7710 Nov 17 j 09:32	16° ≏ 54'52	
minimum elong	-7717 Nov 17 j 19:03	2° ≏ 01'04					
max. Earth dist.	-7717 Nov 18 j 16:32		31.06132 AU	conjunction	-7710 Dec 02 j 23:32	17° ≏ 29'52	
morning rise	-7717 Dec 03 j 08:30	2° ≏ 36'04		minimum elong	-7710 Dec 02 j 23:32	17° ≏ 29'52	0°24'52
retrograde	-7716 Mar 03 j 11:55	4° ≙ 34'18		max. Earth dist.	-7710 Dec 04 j 00:57		30.99621 AU
opposition	-7716 May 23 j 14:06	3° ჲ 09'31	1°04'45	morning rise	-7710 Dec 18 j 17:42	18° ≏ 05'14	
min. Earth dist.	-7716 May 22 j 16:14	3° ഫ 11'01	29.05652 AU	retrograde	-7709 Mar 20 j 07:56	20° ഫ 03'51	
direct	-7716 Aug 09 j 18:20	1° ≏ 46'53		min. Earth dist.	-7709 Jun 08 j 03:53	18° ≏ 40'23	28.99370 AU
evening set	-7716 Nov 03 j 19:16	3° ₽ 39'00		opposition	-7709 Jun 09 j 04:38	18° ≏ 38'41	0°23'32
Č	,			direct	-7709 Aug 25 j 22:50	17° ≏ 15'59	
conjunction	-7716 Nov 19 j 05:45	4° £ 13'43	0°58'01	evening set	-7709 Nov 19 j 20:15	19° ≏ 07'58	
minimum elong	-7716 Nov 19 j 05:45	4° £ 13'43		3 *		3.20	
max. Earth dist.	-7716 Nov 20 j 04:40		31.05038 AU	conjunction	-7709 Dec 05 j 10:59	19° ≏ 43'00	0°19'16
morning rise	-7716 Dec 04 j 19:47	4° £ 48'46	31.03036 AC	minimum elong	-7709 Dec 05 j 10:59	19° ≏ 43'00	0°19'08
-		4 = 48 40 6° Ω 47'04		max. Earth dist.	3		30.99052 AU
retrograde	-7715 Mar 05 j 23:08		20.04520.444		-7709 Dec 06 j 13:49		30.99032 AU
min. Earth dist.	-7715 May 25 j 04:45		29.04528 AU	morning rise	-7709 Dec 21 j 05:37	20° £ 18′26	
opposition	-7715 May 26 j 02:44	5° Ω 22'11	0°59'05	retrograde	-7708 Mar 21 j 19:28	22° ≏ 17'07	
direct	-7715 Aug 12 j 05:06	3° £ 59'31		opposition	-7708 Jun 10 j 16:50	20° £ 51'56	
evening set	-7715 Nov 06 j 05:30	5° ≏ 51'34		min. Earth dist.	-7708 Jun 09 j 15:19		28.98810 AU
				direct	-7708 Aug 27 j 10:36	19° ≏ 29'17	
conjunction	-7715 Nov 21 j 16:32	6° £ 26'19	0°52'40	evening set	-7708 Nov 21 j 07:11	21° ≏ 21'16	
minimum elong	-7715 Nov 21 j 16:33	6° £ 26'19	0°52'40				
max. Earth dist.	-7715 Nov 22 j 15:16	6° ≏ 28'28	31.03927 AU	conjunction	-7708 Dec 06 j 22:22	21° ≏ 56′21	0°13'32
morning rise	-7715 Dec 07 j 07:22	7° Ω 01'26		minimum elong	-7708 Dec 06 j 22:23	21° ≏ 56′21	0°13'24
retrograde	-7714 Mar 08 j 12:51	8° ≏ 59'46		behind sun begin	-7708 Dec 06 j 18:41	21° ≏ 56′01	
opposition	-7714 May 28 j 15:06	7° £ 34'48	0°53'20	behind sun end	-7708 Dec 07 j 02:04	21° Ω 56'41	
min. Earth dist.	-7714 May 27 j 16:10		29.03427 AU	max. Earth dist.	-7708 Dec 08 j 00:24		30.98503 AU
direct	-7714 Aug 14 j 15:15	6° £ 12'05		morning rise	-7708 Dec 22 j 17:48	22° △ 31'50	
evening set	-7714 Nov 08 j 15:46	8° 2 04'06		retrograde	-7707 Mar 24 j 09:01	24° £ 30'35	
2. J	,,1.110, 00 j 15.40	3 - 37 00			,, o, 21 J 07.01	- 5055	

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7707 in astronomical counting style is the year 7708 BCE in historical counting style. -7707 Jun 12 j 03:47 23°**♀**07'10 28.98252 AU evening set -7702 Dec 05 j 03:59 4°M43'09 min. Earth dist. -7707 Jun 13 j 05:08 23°**₽**05'24 0°11'16 opposition -7707 Aug 29 j 20:20 21°**-**42'45 -7702 Dec 20 j 22:41 5°ML18'28 -0°21'09 direct conjunction 23°**₽**34'46 -7707 Nov 23 j 18:24 -7702 Dec 20 j 22:41 minimum elong 5°M18'28 0°21'24 evening set -7702 Dec 22 j 01:11 max. Earth dist. 5°M20'57 30.93685 AU -7701 Jan 05 j 21:22 -7707 Dec 09 j 10:17 conjunction 24°**♀**09'54 0°07'47 morning rise 5°M54'11 -7707 Dec 09 j 10:16 24°**♀**09'54 minimum elong 0°07'37 retrograde -7701 Apr 07 j 14:33 7°**IL**53'01 -7701 Jun 26 j 04:30 behind sun begin -7707 Dec 09 j 04:23 24°**₽**09'22 min. Earth dist. 6°M29'17 28.93269 AU 6° M27'33 $-0^{\circ}25'44$ behind sun end -7707 Dec 09 j 16:10 24°**£**10′26 opposition -7701 Jun 27 j 05:22 max. Earth dist. -7707 Dec 10 j 13:16 24°**♀**12'27 30.97910 AU direct -7701 Sep 12 j 15:12 5°M04'37 morning rise -7707 Dec 25 j 06:10 24°**2**45'26 evening set -7701 Dec 07 j 15:50 6°M56'41 retrograde -7706 Mar 26 j 21:01 26°**₽**44'14 -7701 Dec 23 j 10:52 opposition -7706 Jun 15 j 17:15 25°**♀**19'03 0°05'05 conjunction 7°M32'02 -0°26'51 min. Earth dist. -7706 Jun 14 j 16:18 25°**≙**20'47 28.97619 AU minimum elong -7701 Dec 23 j 10:52 7°M32'02 0°27'08 direct -7706 Sep 01 j 07:02 23°**♀**56'24 max. Earth dist. -7701 Dec 24 j 12:32 7°M34'26 30.92804 AU evening set -7706 Nov 26 j 05:48 25°**-**48'26 morning rise -7700 Jan 08 j 10:13 8°ML07'47 retrograde -7700 Apr 09 j 04:01 10°ML06'37 conjunction -7706 Dec 11 j 22:11 26°**£**23'36 0°02'00 opposition -7700 Jun 28 j 17:14 8°M41'06 -0°31'50 minimum elong -7706 Dec 11 j 22:12 26°**♀**23'36 0°01'50 min. Earth dist. -7700 Jun 27 j 17:04 8°M42'47 28.92450 AU behind sun begin -7706 Dec 11 j 15:43 26°**£**23'01 direct -7700 Sep 14 j 01:50 7°M18'06 behind sun end -7706 Dec 12 j 04:41 26°**£**24'11 evening set -7700 Dec 09 j 03:32 9°M10'12 max. Earth dist. -7706 Dec 13 i 00:20 26°**£**26'03 30.97238 AU morning rise -7706 Dec 27 j 18:46 26°**£**59'10 conjunction -7700 Dec 24 i 23:16 9°ML45'35 -0°32'32 retrograde -7705 Mar 29 i 10:24 28°**♀**58'01 minimum elong -7700 Dec 24 i 23:15 9°M45'35 0°32'48 desc. node -7705 Apr 14 j 18:54 28°**£**53'45 max. Earth dist. -7700 Dec 26 j 02:08 9°M48'06 30.92035 AU -7705 Jun 17 j 04:10 27°**♀**34'33 28.96893 AU -7699 Jan 09 j 22:57 10°M21'22 min. Earth dist. morning rise -7705 Jun 18 j 05:26 -0°01'06 -7699 Apr 11 j 16:24 12°M20'12 27°**£**32'48 retrograde opposition -7705 Sep 03 j 17:24 26°**₽**10'07 -7699 Jun 30 j 04:09 10°M56'24 28.91738 AU min. Earth dist. direct -7705 Nov 28 j 17:09 28°**₽**02'09 -7699 Jul 01 j 04:57 10°M54'40 -0°37'52 evening set opposition 9°M31'38 -7699 Sep 16 j 14:07 direct 28°**≏**37'22 -0°03'55 -7705 Dec 14 j 10:06 -7699 Dec 11 j 15:38 conjunction 11°M23'46 evening set -7705 Dec 14 j 10:06 minimum elong 28°**₽**37'22 0°04'07 -7705 Dec 14 j 03:42 28°**≙**36'47 -7699 Dec 27 j 11:43 conjunction 11°M59'12 -0°38'09 behind sun begin -7705 Dec 14 j 16:30 -7699 Dec 27 j 11:43 behind sun end 28°**♀**37'56 minimum elong 11°ML59'12 0°38'27 -7705 Dec 15 j 12:25 -7699 Dec 28 j 13:35 12°M01'37 30.91388 AU max. Earth dist. 28°**♀**39'50 30.96445 AU max. Earth dist. -7705 Dec 30 j 07:12 -7698 Jan 12 j 12:03 morning rise 29°**₽**12'59 morning rise 12°MJ35'01 -7698 Apr 14 j 06:33 -7704 Jan 21 j 23:14 0°M retrograde 14°M33'52 retrograde -7704 Mar 30 j 21:59 1°M11'51 -7698 Jul 03 j 16:34 13°ML08'19 -0°43'51 opposition -7704 Jun 11 j 15:23 30°**₹**Ω min. Earth dist. -7698 Jul 02 j 15:57 13°M10'02 28.91161 AU opposition -7704 Jun 19 j 17:41 29°**△**46'34 -0°07'17 direct -7698 Sep 19 j 00:22 11°M45'16 min. Earth dist. -7704 Jun 18 j 17:22 29°**♀**48'16 28.96048 AU -7698 Dec 14 j 03:42 13°M37'28 evening set -7704 Sep 05 j 04:10 28°**♀**23'51 direct -7704 Nov 22 j 20:33 -7698 Dec 30 j 00:23 14°ML12'56 -0°43'43 0°M conjunction -7704 Nov 30 j 04:41 -7698 Dec 30 j 00:23 14°ML12'56 0°44'02 evening set 0° ML15'53minimum elong -7698 Dec 31 j 03:18 14°M 15'28 30.90857 AU max. Earth dist. -7704 Dec 15 i 22:15 0°M51'08 -0°09'40 conjunction morning rise -7697 Jan 15 i 01:01 14°ML48'47 -7697 Jan 20 i 04:51 minimum elong -7704 Dec 15 j 22:16 0°M51'08 0°09'52 15°M behind sun begin -7704 Dec 15 i 16:58 0°M50'39 retrograde -7697 Apr 16 j 18:32 16°M47'39 behind sun end -7704 Dec 16 i 03:33 0°M51'36 min. Earth dist. -7697 Jul 05 i 03:52 15°M23'50 28.90684 AU max. Earth dist. -7704 Dec 17 i 00:25 0°ML53'35 30.95568 AU -7697 Jul 06 i 04:15 15°M22'08 -0°49'47 opposition -7704 Dec 31 j 19:55 1°M26'47 -7697 Jul 19 j 12:04 15°RM morning rise -7703 Apr 02 j 11:52 3°M25'39 -7697 Sep 21 j 11:20 13°M59'05 retrograde direct -7703 Jun 21 j 04:31 2°ML02'04 28.95132 AU -7697 Nov 21 j 11:50 15°M min. Earth dist. opposition -7703 Jun 22 j 05:38 2°ML00'19 -0°13'28 evening set -7697 Dec 16 j 15:49 15°M51'22 0°M37'31 -7703 Sep 07 j 15:08 direct -7703 Dec 02 j 16:22 2°M29'33 conjunction -7696 Jan 01 j 12:54 16°M₂26'51 -0°49'14 evening set minimum elong -7696 Jan 01 j 12:54 16°M₂26'51 0°49'34 -7703 Dec 18 j 10:24 3°ML04'50 -0°15'25 -7696 Jan 02 j 15:07 16°M29'19 30.90432 AU conjunction max. Earth dist. -7703 Dec 18 j 10:24 0°15'40 -7696 Jan 17 j 14:04 17°M02'44 minimum elong 3°ML04'50 morning rise -7696 Apr 18 j 07:56 19°M01'38 behind sun begin -7703 Dec 18 j 09:03 3°M04'43 retrograde -7696 Jul 07 j 15:56 behind sun end -7703 Dec 18 j 11:45 3°M04'58 opposition 17°M36'09 -0°55'39 max. Earth dist. -7703 Dec 19 j 12:07 3°ML07'15 30.94623 AU min. Earth dist. -7696 Jul 06 j 15:13 17°M37'53 28.90298 AU morning rise -7702 Jan 03 j 08:43 3°M40'31 direct -7696 Sep 22 j 21:37 16°M13'06 retrograde -7702 Apr 05 j 00:37 5°M39'23 evening set -7696 Dec 18 j 04:17 18°M05'28 opposition -7702 Jun 24 j 17:40 4°M13'58 -0°19'37 min. Earth dist. -7702 Jun 23 j 17:43 4°M15'38 28.94185 AU -7695 Jan 03 j 01:49 18°M41'00 -0°54'41 conjunction

-7702 Sep 10 j 02:07

direct

2°M51'06

-7695 Jan 03 j 01:48

minimum elong

18°M41'00 0°55'01

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7695 in astronomical counting style is the year 7696 BCE in historical counting style. -7695 Jan 04 i 04:14 18°M43'28 30.90055 AU retrograde -7689 May 05 j 06:20 4°×43'50 max. Earth dist. -7695 Jan 19 j 03:21 19°M16'55 min. Earth dist. -7689 Jul 23 j 04:06 3°**∡**19'48 28.86381 AU morning rise -7695 Apr 20 j 19:36 21°M15'51 opposition -7689 Jul 24 j 00:31 3°**₹**18'21 -1°33'53 retrograde -7695 Jul 09 j 03:59 -7689 Oct 09 j 05:43 min. Earth dist. 19°M52'03 28.89935 AU direct 1° × 54'56 -7695 Jul 10 j 03:32 -7688 Jan 03 j 23:10 3°**х** 47′53 opposition 19°M50'24 -1°01'25 evening set direct -7695 Sep 25 j 07:38 18°M27'21 4°**∡**°23'35 -1°30'04 -7695 Dec 20 j 16:56 evening set 20°M19'49 conjunction -7688 Jan 19 j 23:31 -7688 Jan 19 j 23:30 minimum elong 4°**х** 23'35 1°30'31 -7688 Jan 20 j 22:18 conjunction -7694 Jan 05 j 14:58 20°M55'23 -1°00'03 max. Earth dist. 4°**尽**25'43 30.85938 AU $20^{\circ}\text{ML}55^{\prime}23$ minimum elong -7694 Jan 05 j 14:58 1°00'25 morning rise -7688 Feb 05 j 03:15 4° 🖍 59'38 max. Earth dist. -7694 Jan 06 j 16:52 20° M $_{5}7'49$ 30.89690 AU retrograde -7688 May 06 j 17:38 6°**х** 58′23 -7694 Jan 21 j 16:53 -7688 Jul 25 j 11:45 morning rise 21°M31'19 opposition 5°**х** 32′52 -1°38′51 -7694 Apr 23 j 09:59 -7688 Jul 24 j 15:54 retrograde 23°M30'17 min. Earth dist. 5°**≯**34'16 28.85713 AU opposition -7694 Jul 12 j 15:06 22°ML04'52 -1°07'07 direct -7688 Oct 10 j 17:57 4°**х** 09′21 min. Earth dist. -7694 Jul 11 j 15:07 22°MJ06'33 28.89549 AU evening set -7687 Jan 05 j 12:28 6°**х¹**02'22 direct -7694 Sep 27 j 18:02 20°M41'48 evening set -7694 Dec 23 j 05:50 22°M34'23 conjunction -7687 Jan 21 j 13:06 6° ₹38'05 -1°34'38 minimum elong -7687 Jan 21 j 13:05 6° ₹38'05 1°35'05 conjunction -7693 Jan 08 j 04:08 23°ML09'58 -1°05'19 max. Earth dist. -7687 Jan 22 j 10:44 6°**х** 40′07 30.85322 AU 23°M09'58 minimum elong -7693 Jan 08 j 04:07 1°05'42 morning rise -7687 Feb 06 j 17:12 7°**х** 14′09 max. Earth dist. -7693 Jan 09 j 05:08 23°M12'19 30.89252 AU retrograde -7687 May 09 j 06:56 9°×12'50 morning rise -7693 Jan 24 i 06:26 23°M45'56 opposition -7687 Jul 27 j 22:47 7°**∡**¹47'18 -1°43'39 retrograde -7693 Apr 25 i 22:35 25°M44'55 min. Earth dist. -7687 Jul 27 i 02:51 7° **₹** 48'43 28.85166 AU min. Earth dist. -7693 Jul 14 i 04:25 24°M21'06 28.89079 AU direct -7687 Oct 13 i 05:02 6°**х** 23′42 opposition -7693 Jul 15 j 02:46 24°M19'31 -1°12'42 evening set -7686 Jan 08 j 01:53 8°**х** 16'48 -7693 Sep 30 j 04:50 22°M56'25 direct -7693 Dec 25 j 18:43 24°M49'06 -7686 Jan 24 j 02:51 8° x 52'33 -1°39'04 evening set conjunction -7686 Jan 24 j 02:51 8° x 52'33 1°39'31 minimum elong -7692 Jan 10 j 17:35 25°M24'43 -1°10'30 -7686 Jan 25 j 00:37 8° ₹ 54'35 30.84821 AU conjunction max. Earth dist. -7692 Jan 10 j 17:34 25°M24'43 1°10'54 -7686 Feb 09 j 07:07 9°×28'37 minimum elong morning rise -7692 Jan 11 j 18:36 -7686 May 11 j 18:24 11°**х** 27′14 max. Earth dist. 25°M27'04 30.88732 AU retrograde -7692 Jan 26 j 20:06 opposition -7686 Jul 30 j 09:57 10°**₹**01'42 -1°48'18 26°M₀00'42 morning rise -7692 Apr 27 j 12:48 10° ₹03'03 28.84744 AU 27°M59'40 min. Earth dist. -7686 Jul 29 j 15:06 retrograde 26°M34'16 -1°18'11 -7692 Jul 16 j 14:17 -7686 Oct 15 j 15:30 8°**≯**38'03 opposition direct -7692 Jul 15 j 15:40 26°M35'52 28.88505 AU -7685 Jan 10 j 15:13 10°**₹**31'14 min. Earth dist. evening set -7692 Oct 01 j 17:57 direct 25°**™**11'07 -7692 Dec 27 j 07:49 -7685 Jan 26 j 16:30 11°**₹**07'00 -1°43'20 evening set 27°M03'52 conjunction minimum elong -7685 Jan 26 j 16:29 11°**∡**06'59 1°43'48 conjunction -7691 Jan 12 j 06:56 27°MJ39'31 -1°15'35 max. Earth dist. -7685 Jan 27 j 13:44 11°**✗**08'59 30.84473 AU minimum elong -7691 Jan 12 j 06:56 27°MJ39'31 1°15'58 morning rise -7685 Feb 11 j 20:57 11°**х** 43′04 max. Earth dist. -7691 Jan 13 j 06:18 27°M41'42 30.88101 AU retrograde -7685 May 14 j 07:54 13°**∡**'41'38 -7691 Jan 28 j 09:59 28°M15'31 -7685 Aug 01 j 20:56 12°**∡**16′08 -1°52′48 morning rise opposition -7691 Mar 31 j 06:00 min. Earth dist. -7685 Aug 01 j 01:25 12°**҂**17'31 28.84472 AU 0° **₹** -7691 Apr 30 j 02:18 0°**∡**14'28 -7685 Oct 18 j 02:13 10°**₹**52'25 retrograde direct -7691 May 30 j 06:36 30°RML -7684 Jan 13 j 04:47 12°**х¹**45'44 evening set -7691 Jul 18 i 04:46 min. Earth dist. 28°M50'32 28.87837 AU -7684 Jan 29 i 06:17 opposition -7691 Jul 19 i 01:55 28°M49'03 -1°23'33 conjunction 13°**∡**121'30 -1°47'27 -7684 Jan 29 i 06:16 direct -7691 Oct 04 i 04:59 27°M25'48 minimum elong 13°**∡**121'30 1°47'56 -7684 Jan 30 i 02:54 evening set -7691 Dec 29 j 20:54 29°M18'38 max. Earth dist. 13°**₹**23'25 30.84258 AU morning rise -7684 Feb 14 i 10:58 13°**₹**'57'34 -7690 Jan 14 j 20:36 29°M54'18 -1°20'32 retrograde -7684 May 15 i 19:02 15°**₹** 56'06 conjunction -7690 Jan 14 j 20:35 29°M54'18 1°20'57 opposition -7684 Aug 03 j 08:02 14°**₹**30'39 -1°57'07 minimum elong max. Earth dist. -7690 Jan 15 j 20:19 29°M56'31 30.87390 AU min. Earth dist. -7684 Aug 02 j 13:57 14°**✗**31'56 28.84332 AU -7690 Jan 17 j 09:27 0° 🗸 direct -7684 Oct 19 j 12:42 13°**х** 06′53 -7683 Jan 14 j 18:22 morning rise -7690 Jan 30 j 23:46 0°**х** 30′19 evening set 15°**х** 00′19 2°**∡**°29'11 retrograde -7690 May 02 j 15:25 opposition -7690 Jul 21 j 13:09 1°×703'45 -1°28'47 conjunction -7683 Jan 30 j 20:18 15°**∡**136′06 -1°51′25 -7690 Jul 20 j 16:06 1°**尽**05'14 28.87101 AU -7683 Jan 30 j 20:17 15° ₹36'06 1°51'54 min. Earth dist. minimum elong -7690 Sep 02 j 10:20 30°RM -7683 Jan 31 j 17:00 15°**✗**38'03 30.84171 AU max. Earth dist. -7690 Oct 06 j 17:55 29°M40'25 -7683 Feb 16 j 01:05 16°**х** 12′11 direct morning rise -7683 May 18 j 08:21 18°**х** 10'41 -7690 Nov 09 j 11:00 0° **₹** retrograde evening set -7689 Jan 01 j 10:10 1°**х** 33′18 opposition -7683 Aug 05 j 18:58 16°**х** 45′17 -2°01′15 min. Earth dist. -7683 Aug 05 j 00:37 16° **₹** 46'35 28.84282 AU conjunction -7689 Jan 17 j 10:03 2°\$\square\$09'00 -1°25'22 direct -7683 Oct 22 j 00:57 15°**х** 21′29 minimum elong -7689 Jan 17 j 10:02 2°**҂**08'59 1°25'48 evening set -7682 Jan 17 j 08:21 17°**х** 15′04 max. Earth dist. -7689 Jan 18 j 08:07 2° ₹11'04 30.86648 AU -7689 Feb 02 j 13:40 2°**×**¹45'02 -7682 Feb 02 j 10:23 17°**尽** 50'52 -1°55'12 morning rise conjunction

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7682 in astronomical counting style is the year 7683 BCE in historical counting style. 17°**∡**750′52 1°55′42 opposition -7682 Feb 02 i 10:22 -7676 Aug 20 j 23:23 2°る30'05 -2°24'46 minimum elong -7682 Feb 03 j 05:30 17°**₹**'52'39 30.84137 AU min. Earth dist. -7676 Aug 20 j 11:07 2°る30'57 28.83179 AU max. Earth dist. -7682 Feb 18 j 15:26 18°**∡** 26'57 -7676 Nov 06 j 11:16 1°る05'49 direct morning rise 20°×725'25 -7675 Feb 02 j 11:35 3°**ප**00'11 -7682 May 20 j 21:34 retrograde evening set -7682 Aug 08 j 05:58 19°**₹**00'05 -2°05'12 opposition -7682 Aug 07 j 13:11 -7675 Feb 18 j 15:15 3°る36'04 -2°16'32 min. Earth dist. 19°**✗**01'16 28.84273 AU conjunction -7682 Oct 24 j 11:12 -7675 Feb 18 j 15:15 3°**ප**36'04 2°17'03 direct 17°**∡**36′15 minimum elong -7681 Jan 19 j 22:17 19°**х** 29'58 evening set max. Earth dist. -7675 Feb 19 j 03:54 3°る37'15 30.82907 AU morning rise -7675 Mar 06 j 20:56 4°る12'10 6°**ප**10'00 conjunction -7681 Feb 05 j 00:43 20°**₹**05'47 -1°58'49 retrograde -7675 Jun 05 j 15:25 4°る44'54 -2°27'17 minimum elong -7681 Feb 05 j 00:42 20°**₹**05'47 1°59'19 opposition -7675 Aug 23 j 10:10 -7681 Feb 05 j 19:58 20°**✗**07'35 30.84117 AU -7675 Aug 22 j 23:34 max. Earth dist. min. Earth dist. 4°る45'39 28.83022 AU -7675 Nov 08 j 22:15 morning rise -7681 Feb 21 j 05:43 20°**х** 41′52 direct 3°**る**20'33 retrograde -7681 May 23 j 11:00 22°**х** 40′17 evening set -7674 Feb 05 j 01:50 5°る15'02 opposition -7681 Aug 10 j 16:57 21°**≯**15'01 -2°08'58 min. Earth dist. -7681 Aug 10 j 00:30 21° 🖍 16'11 28.84238 AU conjunction -7674 Feb 21 j 05:47 5°る50'55 -2°18'47 direct -7681 Oct 27 j 00:06 19°**х** 51′09 minimum elong -7674 Feb 21 j 05:47 5°る50'55 2°19'18 evening set -7680 Jan 22 j 12:21 21°**х** 45′00 max. Earth dist. -7674 Feb 21 j 18:10 5°る52'05 30.82805 AU morning rise -7674 Mar 09 j 11:24 6°る27'00 conjunction -7680 Feb 07 j 14:52 22°**∡**¹20'50 -2°02'15 retrograde -7674 Jun 08 j 03:53 8°る24'44 22°**∡**¹20'50 minimum elong -7680 Feb 07 j 14:52 2°02'45 opposition -7674 Aug 25 j 20:41 6°る59'40 -2°29'34 max. Earth dist. -7680 Feb 08 i 07:58 22° 🗷 22'26 30.84049 AU min. Earth dist. -7674 Aug 25 i 09:48 7°る00'27 28.82986 AU morning rise -7680 Feb 23 i 20:11 22° 🖈 56'56 direct -7674 Nov 11 j 10:17 5°る35'15 -7673 Feb 07 j 16:11 retrograde -7680 May 25 i 01:55 24° 🖍 55'17 evening set 7°る29'51 -7680 Aug 12 j 04:03 23°×30'03 -2°12'33 opposition -7680 Aug 11 j 12:42 23°**∡**31′09 28.84143 AU -7673 Feb 23 j 20:09 8°중05'45 -2°20'49 min. Earth dist. conjunction -7680 Oct 28 j 12:03 22°**₹**06'08 -7673 Feb 23 j 20:09 8°중05'45 2°21'20 direct minimum elong -7679 Jan 24 j 02:33 24°**₹**00'06 -7673 Feb 24 j 07:08 8°る06'46 30.82835 AU max. Earth dist. evening set morning rise -7673 Mar 12 j 01:54 8°る41'49 -7679 Feb 09 j 05:28 24°**₹**35'58 -2°05'30 -7673 Jun 10 j 15:54 10°る39'28 conjunction retrograde -7679 Feb 09 j 05:27 opposition -7673 Aug 28 j 07:23 9°る14'27 -2°31'38 24° \$\square\$35'58 2°06'00 minimum elong -7673 Aug 27 j 21:48 -7679 Feb 09 j 22:30 9°る15'08 28.83108 AU max. Earth dist. 24°**✗**37'33 30.83897 AU min. Earth dist. 7°**る**49'58 -7679 Feb 25 j 10:43 25°**х** 12′03 -7673 Nov 13 j 20:08 morning rise direct 9°**ප**44'41 -7679 May 27 j 13:50 27°**∡**10′19 -7672 Feb 10 j 06:17 retrograde evening set -7679 Aug 14 j 14:58 opposition 25°**₹**'45'08 -2°15'55 -7672 Feb 26 j 10:37 10°る20'35 -2°22'39 -7679 Aug 14 j 00:50 min. Earth dist. 25°**∡**′46′08 28.83948 AU conjunction -7679 Oct 31 j 00:42 -7672 Feb 26 j 10:37 10°る20'35 2°23'09 direct 24°**х** 21′09 minimum elong evening set -7678 Jan 26 j 16:54 26°**₹**15'14 max. Earth dist. -7672 Feb 26 j 21:55 10°る21'38 30.83030 AU morning rise -7672 Mar 13 j 16:16 10°**る**56'39 conjunction -7678 Feb 11 j 19:57 26°**₹**51'05 -2°08'33 retrograde -7672 Jun 12 j 04:13 12°**る**54'12 -7678 Feb 11 j 19:57 26°**₹**51'05 2°09'04 opposition -7672 Aug 29 j 17:58 11°る29'15 -2°33'28 minimum elong -7678 Feb 12 j 11:00 26°**✗**52'30 30.83669 AU min. Earth dist. -7672 Aug 29 j 08:29 11°る29'56 28.83369 AU max. Earth dist. -7678 Feb 28 j 01:27 27°×27'11 -7672 Nov 15 j 09:22 10°る04'45 morning rise direct -7678 May 30 j 04:04 29°**∡**¹25'21 -7671 Feb 11 j 20:50 11°**る**59'36 retrograde evening set -7678 Aug 17 j 01:53 28°**₹**00'12 -2°19'05 opposition -7671 Feb 28 i 01:10 12°る35'30 -2°24'15 min. Earth dist. -7678 Aug 16 j 12:13 28°**₹**01'10 28.83696 AU conjunction direct -7678 Nov 02 j 12:34 26°**х** 36′07 minimum elong -7671 Feb 28 i 01:09 12°る35'30 2°24'46 -7677 Jan 29 j 07:02 evening set 28°**х** 30′18 max. Earth dist. -7671 Feb 28 i 10:31 12°る36'22 30.83361 AU morning rise -7671 Mar 16 i 06:59 13°る11'33 -7677 Feb 14 j 10:20 29°**₹**06'10 -2°11'25 retrograde -7671 Jun 14 i 18:09 15°**る**09'01 conjunction -7677 Feb 14 i 10:19 29°**₹**06'10 2°11'56 opposition -7671 Sep 01 j 04:29 13°る44'09 -2°35'03 minimum elong -7677 Feb 15 j 01:05 29°**₹**07'33 30.83385 AU min. Earth dist. -7671 Aug 31 j 19:53 13°る44'46 28.83767 AU max. Earth dist. -7677 Mar 02 j 15:48 29°**х** 42'15 -7671 Nov 17 j 21:20 12°る19'37 morning rise direct 0°궁 -7670 Feb 14 j 11:18 14°**る**14'37 -7677 Mar 10 j 22:14 evening set retrograde -7677 Jun 01 j 15:53 1°る40'20 opposition -7677 Aug 19 j 12:47 0°る15'11 -2°22'02 conjunction -7670 Mar 02 j 15:56 14°る50'32 -2°25'38 min. Earth dist. -7677 Aug 19 j 00:42 0°る16'02 28.83415 AU minimum elong -7670 Mar 02 j 15:56 14°る50'32 2°26'08 -7677 Aug 28 j 11:19 30°R.✓ -7670 Mar 03 j 01:32 14°る51'26 30.83797 AU max. Earth dist. -7677 Nov 04 j 23:51 28°**₹**51'01 -7670 Mar 18 j 21:35 15°る26'34 direct morning rise -7676 Jan 09 j 21:11 0°궁 -7670 Jun 17 j 06:06 17°る23'57 retrograde -7676 Jan 31 j 21:16 0°る45'17 -7670 Sep 03 j 15:07 15°る59'11 -2°36'24 evening set opposition min. Earth dist. -7670 Sep 03 j 07:36 15°る59'43 28.84231 AU conjunction -7676 Feb 17 j 00:47 1°**ට**21'10 -2°14'05 direct -7670 Nov 20 j 09:39 14°る34'38 minimum elong -7676 Feb 17 j 00:47 1°る21'10 2°14'36 evening set -7669 Feb 17 j 01:51 16°**ට**29'46 max. Earth dist. -7676 Feb 17 j 14:20 1°る22'26 30.83121 AU -7676 Mar 04 j 06:22 1°る57'15 -7669 Mar 05 j 06:28 17°る05'41 -2°26'47 morning rise conjunction -7676 Jun 03 j 05:02 3°**る**55'12 -7669 Mar 05 j 06:28 17°る05'41 2°27'18 retrograde minimum elong

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7669 in astronomical counting style is the year 7670 BCE in historical counting style. 17°る06'24 30.84284 AU -7669 Mar 05 i 14:07 min. Earth dist. -7663 Sep 18 j 16:45 1°≈44'41 28.86355 AU max. Earth dist. -7669 Mar 21 j 12:15 17°**ठ**41'44 -7663 Dec 05 j 22:28 0°≈19'37 morning rise direct -7669 Jun 19 j 20:58 19°る39'00 evening set -7662 Mar 05 j 08:54 2°≈15'24 retrograde -7669 Sep 06 j 01:43 18°る14'20 -2°37'31 opposition -7669 Sep 05 j 18:43 18°る14'50 28.84724 AU -7662 Mar 21 j 14:22 min. Earth dist. conjunction 2°≈51'21 -2°28'36 16°**る**49'45 2°≈51'21 2°29'03 -7669 Nov 22 j 21:59 -7662 Mar 21 j 14:23 direct minimum elong -7668 Feb 19 j 16:32 -7662 Mar 21 j 13:20 evening set 18°**ප්**45'01 max. Earth dist. 2°≈51'15 30.86284 AU -7662 Apr 06 j 19:52 morning rise 3°≈27'18 -7662 Jul 05 j 08:37 19°る20'58 -2°27'43 conjunction -7668 Mar 06 j 21:23 retrograde 5°≈23'32 minimum elong -7668 Mar 06 j 21:23 19°る20'58 2°28'13 opposition -7662 Sep 21 j 03:35 3°≈59'13 -2°38'36 max. Earth dist. -7668 Mar 07 j 04:36 19°る21'38 30.84748 AU min. Earth dist. -7662 Sep 21 j 04:05 3°≈59'11 28.86640 AU -7668 Mar 23 j 03:01 19°**る**56'59 -7662 Dec 08 j 10:15 morning rise direct 2°≈34'07 -7668 Jun 21 j 09:18 21°る54'09 -7661 Mar 07 j 23:11 retrograde evening set 4°≈29'58 opposition -7668 Sep 07 j 12:22 20°る29'34 -2°38'24 min. Earth dist. -7668 Sep 07 j 07:17 20°る29'56 28.85163 AU conjunction -7661 Mar 24 j 04:55 5°≈05'55 -2°27'57 direct -7668 Nov 24 j 10:05 19°**る**04'57 minimum elong -7661 Mar 24 j 04:55 5°≈05'55 2°28'24 evening set -7667 Feb 21 j 07:22 21°る00'20 max. Earth dist. -7661 Mar 24 j 04:12 5°≈05'51 30.86616 AU morning rise -7661 Apr 09 j 10:10 5°≈41'51 conjunction -7667 Mar 09 j 12:20 21°る36'16 -2°28'26 retrograde -7661 Jul 07 j 19:42 7°≈37'57 minimum elong -7667 Mar 09 j 12:20 21°る36'16 2°28'56 opposition -7661 Sep 23 j 14:03 6°≈13'41 -2°37'47 max. Earth dist. -7667 Mar 09 j 17:38 21°る36'46 30.85152 AU min. Earth dist. -7661 Sep 23 j 15:27 6°≈13'35 28.87026 AU morning rise -7667 Mar 25 i 18:02 22°る12'18 direct -7661 Dec 10 j 22:46 4°≈48'32 retrograde -7667 Jun 23 i 22:42 24°る09'19 evening set -7660 Mar 09 j 13:45 6°≈44'28 opposition -7667 Sep 09 i 22:59 22°る44'49 -2°39'02 min. Earth dist. -7667 Sep 09 j 18:07 22°る45'10 28.85518 AU conjunction -7660 Mar 25 i 19:25 7°≈20'25 -2°27'05 -7667 Nov 26 j 22:46 21°**る**20'08 -7660 Mar 25 j 19:26 7°≈20'25 2°27'31 direct minimum elong -7666 Feb 23 j 22:11 23°**る**15'37 max. Earth dist. -7660 Mar 25 j 16:50 7°≈20'10 30.87077 AU evening set -7660 Apr 11 j 00:47 7°≈56'20 morning rise -7666 Mar 12 j 03:15 23°る51'33 -2°28'55 -7660 Jul 09 j 09:33 conjunction retrograde 9°≈52'17 -7660 Sep 25 j 00:19 8°≈28'06 -2°36'44 -7666 Mar 12 j 03:15 23°**궁**51'33 2°29'24 minimum elong opposition 8°≈27'59 28.87555 AU -7666 Mar 12 j 07:14 -7660 Sep 25 j 01:55 max. Earth dist. 23°る51'56 30.85449 AU min. Earth dist. -7666 Mar 28 j 08:50 24°₹27'34 -7660 Dec 12 j 11:31 direct 7°≈02'54 morning rise -7666 Jun 26 j 09:40 26°₹24'27 -7659 Mar 12 j 04:15 8°≈58'57 retrograde evening set 25°**る**00'00 -2°39'26 -7666 Sep 12 j 09:42 opposition -7666 Sep 12 j 06:55 25°る00'12 28.85777 AU -7659 Mar 28 j 10:08 9°≈34'54 -2°25'59 min. Earth dist. conjunction -7666 Nov 29 j 09:56 23°**る**35'15 -7659 Mar 28 j 10:08 direct minimum elong 9°≈34'55 2°26'26 9°**≈**34'40 30.87666 AU -7665 Feb 26 j 12:53 25°**る**30'48 -7659 Mar 28 j 07:36 evening set max. Earth dist. morning rise -7659 Apr 13 j 15:15 10°≈10'49 conjunction -7665 Mar 14 j 18:09 26°**ප**06'45 -2°29'10 retrograde -7659 Jul 11 j 21:11 12°≈06'38 minimum elong -7665 Mar 14 j 18:09 26°る06'45 2°29'40 opposition -7659 Sep 27 j 10:51 10°≈42'33 -2°35'27 max. Earth dist. -7665 Mar 14 j 21:07 26°る07'01 30.85681 AU min. Earth dist. -7659 Sep 27 j 13:57 10°≈42'20 28.88201 AU -7665 Mar 30 j 23:41 26°る42'44 -7659 Dec 15 j 00:04 9°≈17'21 morning rise direct -7665 Jun 28 j 22:26 28°**る**39'28 -7658 Mar 14 j 18:43 11°≈13'30 retrograde evening set -7665 Sep 14 j 20:10 27°る15'03 -2°39'35 opposition -7665 Sep 14 j 17:36 27°る15'14 28.85975 AU conjunction -7658 Mar 31 j 00:33 11°≈49'27 -2°24'40 min. Earth dist. -7665 Dec 01 i 22:19 -7658 Mar 31 i 00:34 direct 25°る50'12 minimum elong 11°≈49'27 2°25'05 -7664 Feb 29 i 03:34 -7658 Mar 30 j 20:33 evening set 27°る45'50 max. Earth dist. 11°≈49'05 30.88377 AU morning rise -7658 Apr 16 i 05:41 12°≈25'21 -7664 Mar 16 i 08:51 conjunction 28°**ට**21'47 -2°29'12 retrograde -7658 Jul 14 i 10:23 14°≈21'03 -7664 Mar 16 i 08:51 28°**ප**21'47 2°29'41 opposition -7658 Sep 29 j 21:09 12°≈57'05 -2°33'55 minimum elong max. Earth dist. -7664 Mar 16 i 10:04 28°る21'53 30.85862 AU min. Earth dist. -7658 Sep 30 i 00:05 12°≈56'52 28.88948 AU -7664 Apr 01 j 14:27 28°る57'46 direct -7658 Dec 17 j 12:51 11°≈31'52 morning rise -7664 May 02 j 22:19 0°≈ -7657 Mar 17 j 09:12 13°≈28'08 evening set -7664 Jun 30 i 09:13 retrograde 0°≈54'19 -7664 Aug 29 j 07:21 14°≈04'06 -2°23'08 30°Rる conjunction -7657 Apr 02 j 15:07 opposition -7664 Sep 16 j 06:46 29°る29'56 -2°39'30 minimum elong -7657 Apr 02 j 15:08 14°≈04'06 2°23'33 14°≈03'39 30.89152 AU min. Earth dist. -7664 Sep 16 j 05:57 29°る30'00 28.86157 AU max. Earth dist. -7657 Apr 02 j 10:22 -7664 Dec 03 j 08:51 28°る05'00 -7657 Apr 18 j 20:04 14°≈39'59 direct morning rise -7663 Mar 02 j 18:11 0°≈00'42 -7657 Apr 28 j 05:16 15°≈ evening set -7663 Mar 02 j 10:29 -7657 Jul 16 j 21:51 0°≈ retrograde 16°≈35'34 -7657 Oct 02 j 07:38 opposition 15°≈11'43 -2°32'09 conjunction -7663 Mar 18 j 23:45 0°≈36'38 -2°29'01 min. Earth dist. -7657 Oct 02 j 12:30 15°≈11'22 28.89740 AU minimum elong -7663 Mar 18 j 23:45 0°≈36'38 2°29'29 -7657 Oct 09 j 04:44 15°R≈ max. Earth dist. -7663 Mar 19 j 00:45 0°≈36'44 30.86050 AU direct -7657 Dec 19 j 23:46 13°≈46'31 morning rise -7663 Apr 04 j 05:10 1°≈12'36 -7656 Feb 27 j 04:22 15°≈ -7663 Jul 02 j 20:09 3°≈09'00 -7656 Mar 18 j 23:40 15°≈42'53 retrograde evening set

-7663 Sep 18 j 17:06

opposition

1°≈44'39 -2°39'10

Planetary Phen	omena of Neptune f	from -7900	through -7398	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 20
Attention, astronom	nical year style is used: Th	ne year -7656	in astronomical co	ounting style is the year	7657 BCE in historical c	ounting style.	
conjunction	-7656 Apr 04 j 05:41	16° ≈ 18'51	-2°21'22	retrograde	-7650 Aug 01 j 04:39	2°) 16′42	
minimum elong	-7656 Apr 04 j 05:41	16° ≈ 18'51	2°21'46	opposition	-7650 Oct 17 j 08:54	0°) 53′16	-2°13'36
max. Earth dist.	-7656 Apr 03 j 23:53	16° ≈ 18'19	30.89949 AU	min. Earth dist.	-7650 Oct 17 j 20:51	0°) 52′25	28.93605 AU
morning rise	-7656 Apr 20 j 10:33	16° ≈ 54'44			-7650 Nov 20 j 03:29	30°R ≈	
retrograde	-7656 Jul 18 j 11:06	18° ≈ 50′12		direct	-7649 Jan 04 j 14:42	29° ≈ 27'42	
opposition	-7656 Oct 03 j 18:02	17° ≈ 26′27	-2°30'09		-7649 Feb 18 j 10:48	0° ∀	
min. Earth dist.	-7656 Oct 03 j 23:08	17° ≈ 26′05	28.90502 AU	evening set	-7649 Apr 05 j 04:13	1°) 24′25	
direct	-7656 Dec 21 j 12:00	16° ≈ 01'14					
evening set	-7655 Mar 21 j 14:21	17° ≈ 57'42		conjunction	-7649 Apr 21 j 10:08	2° ₩ 00'21	-2°03'20
				minimum elong	-7649 Apr 21 j 10:08	2°) €00'21	2°03'38
conjunction	-7655 Apr 06 j 20:18	18° ≈ 33'41	-2°19'24	max. Earth dist.	-7649 Apr 20 j 20:11	1° ¥ 59′03	30.93725 AU
minimum elong	-7655 Apr 06 j 20:18	18° ≈ 33'41	2°19'47	morning rise	-7649 May 07 j 13:59	2°) 36′07	
max. Earth dist.	-7655 Apr 06 j 12:44	18° ≈ 32'58	30.90676 AU	retrograde	-7649 Aug 03 j 17:09	4°) 30′27	
morning rise	-7655 Apr 23 j 01:03	19° ≈ 09'33		opposition	-7649 Oct 19 j 19:07	3°) €07'02	-2°10'08
retrograde	-7655 Jul 20 j 21:27	21° ≈ 04'53		min. Earth dist.	-7649 Oct 20 j 06:42	3°) €06'13	28.94161 AU
opposition	-7655 Oct 06 j 04:35	19° ≈ 41'14	-2°27'56	direct	-7648 Jan 07 j 04:04	1°) 41′25	
min. Earth dist.	-7655 Oct 06 j 11:33	19° ≈ 40'44	28.91192 AU	evening set	-7648 Apr 06 j 18:08	3°) €38'10	
direct	-7655 Dec 23 j 22:28	18° ≈ 15'59		max. Earth dist.	-7648 Apr 22 j 09:48	4°) 1 2′46	30.94336 AU
evening set	-7654 Mar 24 j 04:53	20°≈12'32					
				conjunction	-7648 Apr 23 j 00:04	4°) (14′05	-2°00'00
conjunction	-7654 Apr 09 j 10:58	20° ≈ 48'30	-2°17'13	minimum elong	-7648 Apr 23 j 00:05	4°) (14′05	2°00'16
minimum elong	-7654 Apr 09 j 10:59	20° ≈ 48'30	2°17'34	morning rise	-7648 May 09 j 03:38	4°){ 49'49	
max. Earth dist.	-7654 Apr 09 j 02:53	20° ≈ 47'45	30.91322 AU	retrograde	-7648 Aug 05 j 04:17	6°) 43′59	
morning rise	-7654 Apr 25 j 15:30	21° ≈ 24'22		opposition	-7648 Oct 21 j 05:35	5°) €20'38	
retrograde	-7654 Jul 23 j 07:56	23° ≈ 19'33		min. Earth dist.	-7648 Oct 21 j 18:40	5°) 19'42	28.94835 AU
opposition	-7654 Oct 08 j 15:09	21° ≈ 55'58	-2°25'29	direct	-7647 Jan 08 j 16:10	3° ¥ 54'58	
min. Earth dist.	-7654 Oct 08 j 22:45	21° ≈ 55′26	28.91777 AU	evening set	-7647 Apr 09 j 08:02	5° ¥ 51'45	
direct	-7654 Dec 26 j 11:57	20° ≈ 30'42					
evening set	-7653 Mar 26 j 19:18	22° ≈ 27'17		conjunction	-7647 Apr 25 j 13:52	6°) €27'40	-1°56'29
				minimum elong	-7647 Apr 25 j 13:53	6°) €27'40	
conjunction	-7653 Apr 12 j 01:15	23° ≈ 03'15	-2°14'50	max. Earth dist.	-7647 Apr 24 j 22:58	6° ∺ 26′17	30.95089 AU
minimum elong	-7653 Apr 12 j 01:16	23° ≈ 03'15	2°15'12	morning rise	-7647 May 11 j 17:16	7°) €03'23	
max. Earth dist.	-7653 Apr 11 j 14:53	23° ≈ 02'17	30.91867 AU	retrograde	-7647 Aug 07 j 16:31	8°) ₹ 57'24	
morning rise	-7653 Apr 28 j 05:47	23° ≈ 39'06		opposition	-7647 Oct 23 j 15:53	7°) ₹34'06	-2°02'37
retrograde	-7653 Jul 25 j 19:40	25° ≈ 34'08		min. Earth dist.	-7647 Oct 24 j 04:37		28.95641 AU
opposition	-7653 Oct 11 j 01:39	24°≈10′36	-2°22'50	direct	-7646 Jan 11 j 05:34	6°) €08'26	
min. Earth dist.	-7653 Oct 11 j 10:23	24° ≈ 09'59	28.92281 AU	evening set	-7646 Apr 11 j 21:55	8° ₩ 05'15	
direct	-7653 Dec 28 j 23:12	22° ≈ 45′15		max. Earth dist.	-7646 Apr 27 j 11:47	8°) 39′42	30.95970 AU
evening set	-7652 Mar 28 j 09:39	24° ≈ 41'54					
				conjunction	-7646 Apr 28 j 03:37	8°) 41′10	-1°52'47
conjunction	-7652 Apr 13 j 15:47	25°≈17'51	-2°12'14	minimum elong	-7646 Apr 28 j 03:38	8° ∺ 41'10	1°53'01
minimum elong	-7652 Apr 13 j 15:48	25° ≈ 17'51	2°12'35	morning rise	-7646 May 14 j 06:47	9° ∺ 16'52	
max. Earth dist.	-7652 Apr 13 j 05:18	25°≈16'53	30.92339 AU	retrograde	-7646 Aug 10 j 02:37	11° ∺ 10'45	
morning rise	-7652 Apr 29 j 20:01	25° ≈ 53'41		opposition	-7646 Oct 26 j 02:23	9°) 47'33	-1°58'34
retrograde	-7652 Jul 27 j 05:52	27° ≈ 48'32		min. Earth dist.	-7646 Oct 26 j 16:19	9°) 46′34	28.96586 AU
opposition	-7652 Oct 12 j 12:02	26° ≈ 25′03		direct	-7645 Jan 13 j 16:14	8° ∺ 21'53	
min. Earth dist.	-7652 Oct 12 j 22:05	26° ≈ 24'20	28.92715 AU	evening set	-7645 Apr 14 j 11:30	10°) 18′45	
direct	-7652 Dec 30 j 11:41	24° ≈ 59'38					
evening set	-7651 Mar 31 j 00:06	26°≈56′18		conjunction	-7645 Apr 30 j 17:12	10°) ₹ 54'39	
				minimum elong	-7645 Apr 30 j 17:13	10°) ₹ 54'40	
conjunction	-7651 Apr 16 j 06:04	27° ≈ 32'15		max. Earth dist.	-7645 Apr 30 j 01:31		30.96973 AU
minimum elong	-7651 Apr 16 j 06:05	27° ≈ 32'15		morning rise	-7645 May 16 j 20:06	11°) € 30′20	
max. Earth dist.	-7651 Apr 15 j 17:24		30.92773 AU	retrograde	-7645 Aug 12 j 12:55	13°) €24'06	
morning rise	-7651 May 02 j 10:19	28° ≈ 08'04		opposition	-7645 Oct 28 j 12:47	12° 米 01′00	
	-7651 Jul 17 j 05:10	0° ∀		min. Earth dist.	-7645 Oct 29 j 03:01		28.97602 AU
retrograde	-7651 Jul 29 j 18:27	0°) 02'44		direct	-7644 Jan 16 j 05:02	10°) 35′22	
	-7651 Aug 11 j 09:49	30°R ≈		evening set	-7644 Apr 16 j 01:24	12°) 32′17	
opposition	-7651 Oct 14 j 22:26	28° ≈ 39'16					
min. Earth dist.	-7651 Oct 15 j 08:50		28.93145 AU	conjunction	-7644 May 02 j 06:50	13°) €08'11	
direct	-7650 Jan 02 j 01:23	27°≈13'46		minimum elong	-7644 May 02 j 06:51	13°) €08'11	
evening set	-7650 Apr 02 j 14:09	29° ≈ 10′29		max. Earth dist.	-7644 May 01 j 13:23		30.98015 AU
				morning rise	-7644 May 18 j 09:36	13°) 43′51	
conjunction	-7650 Apr 18 j 20:12	29° ≈ 46′25		retrograde	-7644 Aug 14 j 00:25	15°) 37′30	
minimum elong	-7650 Apr 18 j 20:13	29° ≈ 46′25		opposition	-7644 Oct 29 j 23:10	14°) 14'31	
max. Earth dist.	-7650 Apr 18 j 07:43		30.93212 AU	min. Earth dist.	-7644 Oct 30 j 14:15		28.98647 AU
	-7650 Apr 24 j 22:15	0°) (direct	-7643 Jan 17 j 15:19	12°) 48′53	
morning rise	-7650 May 05 j 00:05	0°) 22′12		evening set	-7643 Apr 18 j 15:10	14°) 45′52	

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7643 in astronomical counting style is the year 7644 BCE in historical counting style. 15°**)** 21'45 -1°40'42 opposition -7643 May 04 j 20:36 -7637 Nov 15 i 01:31 29°\(\)47'28 -1°15'08 conjunction -7643 May 04 j 20:37 15°**¥**21'46 1°40'54 min. Earth dist. -7637 Nov 15 j 22:04 29°\ 46'01 29.04113 AU minimum elong max. Earth dist. -7643 May 04 j 03:17 15°**)** €20'09 30.99045 AU -7636 Feb 03 j 09:05 28°\ 21'45 direct -7643 May 20 j 22:56 $0^{\circ}\Upsilon$ 15°**)** 57'24 -7636 Apr 25 j 17:32 morning rise 0°Υ18'48 -7643 Aug 16 j 10:13 17°**¥**50′57 -7636 May 04 j 13:03 retrograde evening set -7643 Nov 01 j 09:50 16°**¥**28'03 -1°45'24 opposition 16°**¥**26'54 28.99637 AU 0°Y54'33 -1°07'42 min. Earth dist. -7643 Nov 02 j 02:06 conjunction -7636 May 20 j 16:50 15°**)**€02'27 0°Y54'34 1°07'45 direct -7642 Jan 20 j 03:36 minimum elong -7636 May 20 j 16:51 -7636 May 19 j 18:18 evening set -7642 Apr 21 j 04:55 16°**¥**59'28 max. Earth dist. 0°**Υ**52'28 31.04426 AU morning rise -7636 Jun 05 j 16:54 1°Y30'01 conjunction -7642 May 07 j 09:59 17° **★**35'21 -1°36'22 retrograde -7636 Aug 31 j 14:27 3°**Y**22'41 -7642 May 07 j 10:00 -7636 Nov 16 j 12:03 2° **Y**00'07 -1° 09'41 minimum elong 17° **★**35'21 1°36'31 opposition -7642 May 06 j 14:36 -7636 Nov 17 j 08:34 1°Υ′58'41 29.04894 AU max. Earth dist. 17°**₭**33'32 31.00005 AU min. Earth dist. morning rise -7642 May 23 j 12:10 18°**¥**10'58 direct -7635 Feb 04 j 22:25 0°Y34'24 retrograde -7642 Aug 18 j 22:14 20°**)**€04'24 evening set -7635 May 07 j 02:09 2°Y31'26 opposition -7642 Nov 03 j 20:27 18°\dagger41'35 -1°40'41 max. Earth dist. -7635 May 22 j 05:47 3°**Y**04'59 31.05272 AU min. Earth dist. -7642 Nov 04 j 12:58 18°**)** 40′25 29.00551 AU direct -7641 Jan 22 j 16:22 17°**)** 15'59 conjunction -7635 May 23 j 05:28 3°Y07'11 -1°02'33 evening set -7641 Apr 23 j 18:30 19°**)** 13′02 minimum elong -7635 May 23 j 05:29 3°Y07'11 1°02'36 morning rise -7635 Jun 08 j 05:12 3°Y42'37 conjunction -7641 May 09 j 23:33 19°\(\pm\)48'54 -1°31'53 retrograde -7635 Sep 03 j 01:25 5°Y35'11 minimum elong -7641 May 09 j 23:34 19°\(\)48'54 1°32'03 opposition -7635 Nov 18 j 22:47 4°Υ12'40 -1°04'07 max. Earth dist. -7641 May 09 i 04:14 19°**)**(47'06 31.00869 AU min. Earth dist. -7635 Nov 19 j 19:23 4°Υ11'14 29.05808 AU morning rise -7641 May 26 i 01:16 20°\(\frac{1}{2}24'30 direct -7634 Feb 07 i 08:42 2°Y46'58 retrograde -7641 Aug 21 j 08:08 22° **)** 17'49 evening set -7634 May 09 j 14:48 4°Υ44'00 opposition -7641 Nov 06 j 07:02 20°\ 55'03 -1°35'50 -7641 Nov 07 j 01:20 20°**¥**53'46 29.01360 AU -7634 May 25 j 17:56 5°Υ19'43 -0°57'19 min. Earth dist. conjunction -7640 Jan 25 j 05:02 19°**)** 29'27 -7634 May 25 j 17:57 5°**Y**19'43 0°57'19 minimum elong direct -7640 Apr 25 j 08:09 21°**)** 26'31 -7634 May 24 j 19:10 5°Υ17'36 31.06252 AU max. Earth dist. evening set -7634 Jun 10 j 17:08 5°Y55'07 morning rise -7640 May 11 j 12:53 22°**₭**02'21 -1°27'17 -7634 Sep 05 j 09:54 7°**Y**47'37 conjunction retrograde -7640 May 11 j 12:54 -7634 Nov 21 j 09:33 6°Y25'10 -0°58'28 22°\(\overline{\pi}\) 02'22 1°27'25 minimum elong opposition -7640 May 10 j 15:50 22°**米**00′24 31.01644 AU -7634 Nov 22 j 06:42 6°**Y**23'41 29.06837 AU min. Earth dist. max. Earth dist. -7640 May 27 j 14:28 22°**₭** 37'56 -7633 Feb 09 j 21:10 4°Υ59'30 morning rise direct -7640 Aug 22 j 20:27 24°**₭**31'07 -7633 May 12 j 03:42 6°**Y**56'32 retrograde evening set -7640 Nov 07 j 17:37 23° **★** 08'25 -1°30'50 -7633 May 27 j 06:12 7°**Υ**29'59 31.07348 AU opposition max. Earth dist. -7640 Nov 08 j 11:42 23°**₭**07'09 29.02082 AU min. Earth dist. direct -7639 Jan 26 j 18:31 21°**)** 42'47 conjunction -7633 May 28 j 06:18 7°Υ32'14 -0°51'59 -7639 Apr 27 j 21:36 23°**)** 39'51 minimum elong -7633 May 28 j 06:19 7°**Υ**32'14 0°51'59 evening set max. Earth dist. -7639 May 13 j 04:47 24°**₭**13'42 31.02333 AU morning rise -7633 Jun 13 j 05:15 8°Y07'37 retrograde -7633 Sep 07 j 20:47 10°Y00'01 -7639 May 14 j 02:11 24°**)** 15'41 -1°22'33 -7633 Nov 23 j 20:05 8°Y37'40 -0°52'44 conjunction opposition -7639 May 14 j 02:11 24°**)** 15'41 1°22'41 min. Earth dist. -7633 Nov 24 j 16:56 8°**Y**36'12 29.07973 AU minimum elong -7639 May 30 j 03:17 24°**)** 51'14 -7632 Feb 12 j 08:32 7°Υ12'02 morning rise direct -7639 Aug 25 j 07:22 26°**)** 44'17 9°Y09'06 retrograde evening set -7632 May 13 j 16:26 -7639 Nov 10 j 04:19 25°\ 21'37 -1°25'43 opposition -7632 May 29 j 18:50 9°Y44'47 -0°46'35 min. Earth dist. -7639 Nov 11 i 00:04 25°**)** €20'13 29.02748 AU conjunction 9°**Y**44'47 0°46'33 direct -7638 Jan 29 i 07:23 23°**)** 55'57 minimum elong -7632 May 29 j 18:50 9°**Υ**42'36 31.08510 AU evening set -7638 Apr 30 j 10:56 25°**)** 53'01 max. Earth dist. -7632 May 28 j 19:28 -7632 Jun 14 i 17:10 10°**Y**20′07 morning rise -7638 May 16 i 15:13 26°\ 28'50 -1°17'43 -7632 Sep 09 j 06:21 12°**Y**12′29 conjunction retrograde -7638 May 16 i 15:14 26°\H28'50 1°17'48 -7632 Nov 25 j 07:00 10°Υ50'12 -0°46'55 minimum elong opposition -7638 May 15 j 17:04 26°**)** €26'46 31.03002 AU min. Earth dist. -7632 Nov 26 j 05:10 10°Υ48'39 29.09138 AU max. Earth dist. -7638 Jun 01 j 16:04 9°Y24'38 morning rise 27°**)** 04'21 direct -7631 Feb 13 j 19:48 11°**Y**21'43 retrograde -7638 Aug 27 j 19:12 28°\ 57'16 evening set -7631 May 16 j 05:15 27°**)** 34'38 -1°20'29 11°**Υ**55'04 31.09676 AU opposition -7638 Nov 12 j 14:52 max. Earth dist. -7631 May 31 j 06:31 min. Earth dist. -7638 Nov 13 j 10:18 27°**)** 33'16 29.03407 AU -7637 Jan 31 j 21:40 26°₩08'56 -7631 Jun 01 j 07:04 11°Υ57'21 -0°41'06 direct conjunction 28°\(\frac{1}{2}\)06'00 -7631 Jun 01 j 07:04 11°**Y**'57'21 0°41'03 evening set -7637 May 03 j 00:01 minimum elong -7637 May 18 j 05:10 28°**₭**39'40 31.03678 AU -7631 Jun 17 j 05:03 12°**Y**32'41 max. Earth dist. morning rise -7631 Sep 11 j 18:16 14°**Y**24'59 retrograde conjunction -7637 May 19 j 04:01 28°**)** 41'47 -1°12'46 opposition -7631 Nov 27 j 17:52 13°**Y**′02'47 -0°41'02 minimum elong -7637 May 19 j 04:02 28°**)**41'47 1°12'50 min. Earth dist. -7631 Nov 28 j 15:29 13°**Y**01'17 29.10276 AU morning rise -7637 Jun 04 j 04:31 29°**)** 17′17 direct -7630 Feb 16 j 08:40 11°**Υ**37'15 $0^{\circ}\Upsilon$ -7637 Jun 24 j 21:47 evening set -7630 May 18 j 17:57 13°**Y**34'21 -7637 Aug 30 j 04:47 1°Y10'04 retrograde -7637 Nov 07 j 14:06 30°**₹**₩ -7630 Jun 03 j 19:24 14°**Y**′09'58 -0°35'34 conjunction

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7630 in astronomical counting style is the year 7631 BCE in historical counting style. 14°**Υ**09'58 0°35'29 -7630 Jun 03 j 19:25 max. Earth dist. -7624 Jun 15 i 15:13 27°**Υ**20'40 31.15228 AU minimum elong -7630 Jun 02 j 18:51 14°**Y**07'41 31.10774 AU -7624 Jul 02 j 12:58 27°Y58'15 max. Earth dist. morning rise -7630 Jun 19 j 16:47 14°Y45'15 -7624 Sep 26 j 18:07 29°Y50'06 morning rise retrograde -7630 Sep 14 j 05:15 -7624 Sep 30 j 03:58 16°**Y**37'30 29°**Y**49'54 retrograde asc. node -7630 Nov 30 j 04:56 15°Υ15'22 -0°35'05 -7624 Dec 12 j 23:26 28°**Y**28'04 opposition opposition 0°01'15 28°**Y**26'23 29.15573 AU -7630 Dec 01 j 04:03 -7624 Dec 13 j 23:44 min. Earth dist. 15°**Y**13'45 29.11335 AU min. Earth dist. 13°**Y**49'52 27°**Υ**02'34 direct -7629 Feb 18 j 21:27 direct -7623 Mar 04 j 01:55 15°**Y**46'58 28°Y59'26 evening set -7629 May 21 j 06:33 evening set -7623 Jun 03 j 08:01 29°**Y**32′20 31.15862 AU max. Earth dist. -7629 Jun 05 j 06:15 16°**Y**20'11 31.11781 AU max. Earth dist. -7623 Jun 18 j 03:47 conjunction -7629 Jun 06 j 07:32 16°**Y**22'32 -0°29'59 conjunction -7623 Jun 19 j 05:56 29°**Y**34'46 0°04'08 -7629 Jun 06 j 07:33 -7623 Jun 19 j 05:55 $29^{\circ}\mathbf{\Upsilon}34{}^{\shortmid}46$ minimum elong 16°**Y**22'32 0°29'54 minimum elong 0°04'20 29°**Υ**34'12 -7629 Jun 22 j 04:32 -7623 Jun 18 j 23:32 morning rise 16°**Y**57'47 behind sun begin retrograde -7629 Sep 16 j 16:46 18°**Y**49'58 behind sun end -7623 Jun 19 j 12:18 29°Y35'21 opposition -7629 Dec 02 j 15:56 17°**Y**27'53 -0°29'05 -7623 Jun 30 j 13:00 0°8 min. Earth dist. -7629 Dec 03 j 14:47 17°**Y**26'18 29.12265 AU morning rise -7623 Jul 04 j 23:31 0°809'46 direct -7628 Feb 21 j 11:54 16°**Y**02'25 retrograde -7623 Sep 29 j 02:53 2°801'35 evening set -7628 May 22 j 19:13 17°Y59'29 opposition -7623 Dec 15 j 10:47 0°**8**39'33 0°07'19 min. Earth dist. -7623 Dec 16 j 11:48 0°837'50 29.16251 AU conjunction -7628 Jun 07 j 19:42 18° Y 35'02 -0° 24' 21 -7622 Jan 09 j 05:52 30°RY minimum elong -7628 Jun 07 j 19:42 18°**Υ**35'02 0°24'14 direct -7622 Mar 06 j 13:02 29°Y14'05 max. Earth dist. -7628 Jun 06 j 17:34 18°**Y**32'36 31.12643 AU -7622 Apr 30 j 04:06 0°8 morning rise -7628 Jun 23 j 16:08 19°**Y**10′14 evening set -7622 Jun 05 j 19:53 1°810'55 retrograde -7628 Sep 18 i 03:02 21°Y02'21 opposition -7628 Dec 04 j 03:02 19°**Y**'40'17 -0°23'03 conjunction -7622 Jun 21 j 17:03 1°**8**46'13 0°09'47 -7628 Dec 05 j 03:04 19°**Ƴ**38'37 29.13072 AU -7622 Jun 21 j 17:03 1°**8**46'13 0°10'00 min. Earth dist. minimum elong -7627 Feb 22 j 23:36 18°**Y**14'49 -7622 Jun 21 j 11:49 1°845'45 direct behind sun begin -7627 May 25 j 07:44 20°**Y**11'53 -7622 Jun 21 j 22:17 1°846'41 behind sun end evening set -7627 Jun 09 j 05:51 20°**Υ**'44'58 31.13395 AU -7622 Jun 20 j 14:25 1°**8**43'44 31.16597 AU max. Earth dist. max. Earth dist. -7622 Jul 07 j 10:14 2°821'11 morning rise 20°Y47'23 -0°18'42 -7627 Jun 10 j 07:47 -7622 Oct 01 j 14:00 4°812'58 conjunction retrograde -7622 Dec 17 j 21:52 -7627 Jun 10 j 07:47 20°**Y**'47'23 0°18'35 opposition 2°**8**50'59 0°13'23 minimum elong -7627 Jun 26 j 03:39 21°\bar{Y}22'32 2°849'20 29.17038 AU min. Earth dist. -7622 Dec 18 j 21:37 morning rise -7627 Sep 20 j 13:07 23°**Y**14'34 -7621 Mar 09 j 01:24 1°**8**25'33 retrograde direct 21°Y52'32 -0°17'00 -7627 Dec 06 j 14:12 -7621 Jun 08 j 07:30 3°**8**22'23 opposition evening set -7627 Dec 07 j 14:20 21°**Υ**50'52 29.13759 AU -7621 Jun 23 j 02:17 3°**8**55'13 31.17429 AU min. Earth dist. max. Earth dist. 20°**Y**27'04 -7626 Feb 25 j 13:57 direct evening set -7626 May 27 j 20:00 22°\bar{Y}24'04 conjunction -7621 Jun 24 j 04:12 3°**8**57'38 0°15'26 minimum elong -7621 Jun 24 j 04:11 3°**8**57'38 0°15'40 conjunction -7626 Jun 12 j 19:25 22°**Y**'59'32 -0°13'02 behind sun begin -7621 Jun 24 j 02:48 3°**8**57'31 -7626 Jun 12 j 19:25 22°**Y**'59'32 0°12'53 behind sun end -7621 Jun 24 j 05:35 3°**8**57'45 minimum elong -7626 Jun 12 j 15:27 22°Y59'10 morning rise -7621 Jul 09 j 20:40 4°832'33 behind sun begin behind sun end -7626 Jun 12 j 23:24 22°Y59'53 -7621 Oct 04 j 00:39 6°**8**24'22 retrograde max. Earth dist. -7626 Jun 11 j 16:19 22°**Υ**57'00 31.14041 AU -7621 Dec 20 j 09:12 5°802'24 0°19'26 opposition -7626 Jun 28 j 14:52 23°**Y**34'39 min. Earth dist. -7621 Dec 21 j 09:44 5°800'43 29.17918 AU morning rise -7626 Sep 22 i 23:52 retrograde 25°Y26'37 direct -7620 Mar 10 j 13:27 3°837'03 opposition -7626 Dec 09 i 01:17 24°Y04'35 -0°10'55 evening set -7620 Jun 09 j 19:11 5°**8**33'53 min. Earth dist. -7626 Dec 10 j 01:38 24°Υ02'54 29.14381 AU -7620 Jun 25 j 15:12 6°809'05 0°21'04 direct -7625 Feb 28 j 01:24 22°Y39'06 conjunction evening set -7625 May 30 j 08:06 24°Y36'03 minimum elong -7620 Jun 25 i 15:11 6°809'05 0°21'20 max. Earth dist. -7625 Jun 14 j 04:54 25°Υ09'02 31.14638 AU max. Earth dist. -7620 Jun 24 j 13:22 6°**と**06'41 31.18346 AU -7620 Jul 11 j 07:08 6°843'58 morning rise -7625 Jun 15 j 07:10 25°**Y**11'29 -0°07'22 -7620 Oct 05 j 11:54 8°835'48 conjunction retrograde minimum elong -7625 Jun 15 j 07:10 25°Υ11'29 0°07'13 opposition -7620 Dec 21 j 20:29 7°**8**13'54 0°25'27 7°**8**12'17 29.18845 AU behind sun begin -7625 Jun 15 j 01:11 25°Y10'57 min. Earth dist. -7620 Dec 22 j 20:06 behind sun end -7625 Jun 15 j 13:09 25°Y12'01 direct -7619 Mar 13 j 02:55 5°848'37 -7625 Jul 01 j 01:56 25°Y46'33 evening set -7619 Jun 12 j 06:51 7°845'28 morning rise -7625 Sep 25 j 07:51 27° **Y**38'27 max. Earth dist. -7619 Jun 27 j 00:15 8°818'13 31.19278 AU retrograde -7625 Dec 11 j 12:20 26°Y16'25 -0°04'50 opposition -7625 Dec 12 j 13:18 26°Υ'14'41 29.14961 AU -7619 Jun 28 j 02:11 8°**8**20'38 0°26'41 min. Earth dist. conjunction 24°Y50'56 -7619 Jun 28 j 02:11 0°26'57 direct -7624 Mar 01 j 14:34 minimum elong 8°**8**20'38 -7619 Jul 13 j 17:30 evening set -7624 May 31 j 20:15 26°**Y**47′50 morning rise 8°**8**55'28 retrograde -7619 Oct 07 j 22:41 10°847'20 conjunction -7624 Jun 16 j 18:35 27°**Y**23'13 -0°01'40 opposition -7619 Dec 24 j 08:01 9°**8**25'30 0°31'25 minimum elong -7624 Jun 16 j 18:35 27°**Y**23′13 0°01'29 min. Earth dist. -7619 Dec 25 j 08:13 9°**8**23'50 29.19783 AU behind sun begin -7624 Jun 16 j 12:05 27°Y22'38 -7618 Mar 15 j 14:01 8°800'17 direct behind sun end -7624 Jun 17 j 01:06 27°**Y**23'48 -7618 Jun 14 j 18:15 9°857'08 evening set

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7618 in astronomical counting style is the year 7619 BCE in historical counting style. max. Earth dist. -7618 Jun 29 j 11:52 10°**8**29'54 31.20188 AU conjunction -7612 Jul 13 i 04:44 23°**8**41'09 -7612 Jul 13 j 04:44 23°**8**41'08 1°04'45 minimum elong -7618 Jun 30 j 13:01 10°**8**32'15 0°32'15 -7612 Jul 28 j 15:36 24°815'40 conjunction morning rise -7612 Oct 22 j 19:58 -7618 Jun 30 j 13:01 10°832'15 0°32'33 26°807'38 minimum elong retrograde -7618 Jul 16 j 03:40 11°**8**07'03 -7611 Jan 08 j 17:42 24°**8**45'47 morning rise opposition 1°11'26 -7618 Oct 10 j 09:19 12°**8**58'57 -7611 Jan 09 j 17:53 retrograde min. Earth dist. 24°**8**44'08 29.23518 AU -7618 Dec 26 j 19:33 opposition 11°**8**37'10 0°37'21 direct -7611 Mar 31 j 04:26 23°**8**20'45 -7611 Jun 30 j 00:53 min. Earth dist. -7618 Dec 27 j 19:34 11°**8**35'31 29.20647 AU evening set 25°**8**17'14 direct -7617 Mar 18 j 04:28 10°**8**12'02 evening set -7617 Jun 17 j 05:53 12°**8**08'52 conjunction -7611 Jul 15 j 14:49 25°**8**52'01 1°09'25 -7611 Jul 15 j 14:49 minimum elong 25°**8**52'01 1°09'49 -7617 Jul 02 j 23:52 12°843'57 0°37'47 -7611 Jul 14 j 14:23 25°849'43 31.23606 AU conjunction max. Earth dist. -7617 Jul 02 j 23:51 12°**8**43'57 -7611 Jul 31 j 01:07 minimum elong 0°38'05 morning rise 26°**8**26'30 max. Earth dist. -7617 Jul 01 j 21:44 12°**8**41'30 31.20998 AU retrograde -7611 Oct 25 j 06:22 28°818'29 morning rise -7617 Jul 18 j 13:59 13°**8**18'42 opposition -7610 Jan 11 j 05:30 26°**8**56'36 1°16'47 -7617 Sep 17 j 23:18 15°8 min. Earth dist. -7610 Jan 12 j 04:14 26°855'03 29.23853 AU retrograde -7617 Oct 12 j 20:41 15°**8**10'37 direct -7610 Apr 02 j 17:06 25°831'33 -7617 Nov 07 j 00:11 15°R₩ evening set -7610 Jul 02 j 11:29 27°827'59 opposition -7617 Dec 29 j 07:00 13°848'52 0°43'14 max. Earth dist. -7610 Jul 17 j 00:37 28°800'27 31.23971 AU min. Earth dist. -7617 Dec 30 j 07:03 13°**8**47'13 29.21413 AU direct -7616 Mar 19 j 16:09 12°**8**23'47 conjunction -7610 Jul 18 j 00:43 28°**8**02'42 1°14'22 evening set -7616 Jun 18 j 17:21 14°**8**20'36 minimum elong -7610 Jul 18 i 00:42 28°**8**02'42 1°14'47 max. Earth dist. -7616 Jul 03 j 09:36 14°**8**53'16 31.21690 AU morning rise -7610 Aug 02 i 10:24 28°837'08 -7610 Sep 16 i 02:55 $0^{\circ}\Pi$ conjunction -7616 Jul 04 i 10:48 14°**8**55'38 0°43'15 retrograde -7610 Oct 27 j 17:07 0°**Ⅱ**29'10 -7616 Jul 04 j 10:48 14°855'38 0°43'34 -7610 Dec 09 j 18:10 30°R₩ minimum elong -7616 Jul 06 j 09:28 15°8 -7609 Jan 13 j 17:21 29°**8**07'15 1°22'01 opposition -7616 Jul 20 j 00:08 15°830'20 -7609 Jan 14 j 16:02 29°805'42 29.24282 AU min. Earth dist. morning rise -7616 Oct 14 j 04:52 -7609 Apr 05 j 04:32 17°**8**22'16 direct 27°**8**42'14 retrograde 16°**8**00'33 0°49'02 -7616 Dec 30 j 18:48 evening set -7609 Jul 04 j 22:03 29°838'37 opposition 15°**8**58'52 29.22034 AU -7616 Dec 31 j 19:22 -7609 Jul 14 j 13:02 min. Earth dist. $0^{\circ}\Pi$ -7615 Feb 09 j 19:13 15°R₩ 14°**8**35'30 -7615 Mar 22 j 05:27 -7609 Jul 20 j 10:40 0°**Д**13'17 1°19'13 direct conjunction -7609 Jul 20 j 10:40 -7615 Apr 30 j 13:21 0°**I**13'17 1°19'37 15°**8** minimum elong 0°**Д**11'10 31.24446 AU -7615 Jun 21 j 04:47 16°**8**32'16 -7609 Jul 19 j 12:00 evening set max. Earth dist. -7609 Aug 04 j 19:40 0°**Ⅱ**47'40 morning rise -7615 Jul 06 j 21:22 17°**8**07'15 0°48'39 -7609 Oct 30 j 03:27 2°**Ⅲ**39'45 conjunction retrograde minimum elong -7615 Jul 06 j 21:22 17°**8**07'15 0°48'58 opposition -7608 Jan 16 j 05:04 1°**I**17′50 1°27′08 -7615 Jul 05 j 19:05 max. Earth dist. 17°**8**04'47 31.22245 AU min. Earth dist. -7608 Jan 17 j 02:52 1°**П**16'21 29.24802 AU morning rise -7615 Jul 22 j 10:13 17°**8**41'55 -7608 Mar 16 j 09:58 30°R₩ retrograde -7615 Oct 16 j 15:05 19°**8**33'52 direct -7608 Apr 06 j 18:38 29°**8**52'53 -7614 Jan 02 j 06:30 18°**8**12'08 0°54'47 -7608 Apr 27 j 19:12 $0^{\circ}\Pi$ opposition min. Earth dist. -7614 Jan 03 j 06:22 18°**8**10'30 29.22533 AU -7608 Jul 06 j 08:41 1°**Ⅱ**49'13 evening set -7614 Mar 24 j 16:59 16°**8**47'05 direct -7614 Jun 23 j 15:59 18°**8**43'48 -7608 Jul 21 j 20:29 2°II23'51 1°23'57 evening set conjunction -7614 Jul 08 i 06:50 -7608 Jul 21 i 20:28 max. Earth dist. 19°**8**16'23 31.22675 AU minimum elong 2°II23'51 1°24'22 -7608 Jul 20 j 21:37 2°**Ц**21'42 31.25013 AU max. Earth dist. -7614 Jul 09 i 08:04 19°818'45 0°53'58 conjunction morning rise -7608 Aug 06 i 04:59 2°II58'12 19°**8**18'45 0°54'19 -7608 Oct 31 i 14:59 -7614 Jul 09 i 08:04 retrograde 4°**I**I50'21 minimum elong -7614 Jul 24 j 20:08 19°853'22 -7607 Jan 17 i 17:02 3°II28'26 1°32'08 morning rise opposition -7614 Oct 18 j 23:56 21°**8**45'19 min. Earth dist. -7607 Jan 18 i 14:00 3°**П**27'01 29.25419 AU retrograde -7613 Jan 04 j 18:13 20°**8**23'34 1°00'26 direct -7607 Apr 09 j 05:58 2°**I**103'34 opposition -7613 Jan 05 j 19:01 20°**8**21'52 29.22916 AU -7607 Jul 08 j 18:59 3°**Ⅲ**59'53 min. Earth dist. evening set -7607 Jul 23 j 09:08 4°**Д**32'28 31.25647 AU direct -7613 Mar 27 j 04:16 18°**8**58'31 max. Earth dist. evening set -7613 Jun 26 j 03:09 20°855'10 conjunction -7607 Jul 24 j 06:15 4°**I**34'27 1°28'33 conjunction -7613 Jul 11 j 18:26 21°**8**30'03 0°59'13 minimum elong -7607 Jul 24 j 06:14 4°II34'27 1°28'59 -7607 Aug 08 j 14:00 -7613 Jul 11 j 18:26 21°**8**30'03 0°59'35 5°**Ⅱ**08'46 minimum elong morning rise -7613 Jul 10 j 16:41 21°**8**27'38 31.23018 AU -7607 Nov 02 j 23:44 7°**Ⅱ**01'00 max. Earth dist. retrograde -7613 Jul 27 j 06:03 22°**8**04'38 -7606 Jan 20 j 05:10 5°**I**39'08 1°36'59 morning rise opposition -7613 Oct 21 j 10:09 23°**8**56'35 -7606 Jan 21 j 02:02 5°**I**37'43 29.26065 AU retrograde min. Earth dist. -7612 Jan 07 j 05:52 22°**8**34'47 1°05'59 direct -7606 Apr 11 j 18:53 4°**Ⅲ**14'21 opposition min. Earth dist. -7612 Jan 08 j 05:26 22°**8**33'10 29.23227 AU evening set -7606 Jul 11 j 05:30 6°**Ⅱ**10'38 direct -7612 Mar 28 j 16:58 21°**8**09'44 evening set -7612 Jun 27 j 14:04 23°**8**06'18 conjunction -7606 Jul 26 j 15:55 6°**I**45'10 1°33'02 max. Earth dist. -7612 Jul 12 j 03:46 23°**8**38'48 31.23299 AU minimum elong -7606 Jul 26 j 15:55 6°II45'10 1°33'29 max. Earth dist. -7606 Jul 25 j 18:20 6° II 43'08 31.26292 AU

DI DI	C2.7	7000	.1 1 7200) (T.ITT) A		1 4 22	2.1
•	omena of Neptune f		•			, ,	page 24
Attention, astronom morning rise	nical year style is used: Th -7606 Aug 10 j 23:16	e year -/606 i 7° ∏ 19'26	in astronomical co	unting style is the year conjunction	-7599 Aug 10 j 10:54	ounting style. 22° Π 01'15	2°00'19
retrograde	-7606 Nov 05 j 10:39	7 П 1926 9° П 11'46		minimum elong	-7599 Aug 10 j 10:53	22° Д 01'15	2°00'49
opposition	-7605 Jan 22 j 17:05	7° ∏ 49'56	1°41'43	max. Earth dist.	-7599 Aug 10 j 10:53		31.28115 AU
min. Earth dist.	-7605 Jan 23 j 12:49		29.26703 AU	morning rise	-7599 Aug 25 j 14:32	21° Д 35'17	31.20113 AC
direct	-7605 Apr 14 j 06:13	6° П 25'13	29.20703110	retrograde	-7599 Nov 20 j 14:03	24° I I28'15	
evening set	-7605 Jul 13 j 15:52	8° П 21'29		opposition	-7598 Feb 07 j 07:46	23° I 106'13	2°10'18
max. Earth dist.	-7605 Jul 28 j 05:32		31.26883 AU	min. Earth dist.	-7598 Feb 08 j 00:15		29.28270 AU
	,			direct	-7598 Apr 29 j 16:54	21° ∏ 41′50	
conjunction	-7605 Jul 29 j 01:46	8° Ⅱ 55'59	1°37'23	evening set	-7598 Jul 28 j 14:40	23° Ⅲ 37'40	
minimum elong	-7605 Jul 29 j 01:45	8° Ⅱ 55'59	1°37'50				
morning rise	-7605 Aug 13 j 08:23	9° Ⅱ 30′13		conjunction	-7598 Aug 12 j 20:13	24° Ⅱ 11'51	2°03'34
retrograde	-7605 Nov 07 j 20:10	11° Ⅱ 22'39		minimum elong	-7598 Aug 12 j 20:13	24° Ⅱ 11'51	2°04'04
opposition	-7604 Jan 25 j 05:23	10° Ⅱ 00′50	1°46'17	max. Earth dist.	-7598 Aug 12 j 04:14	24° Ⅱ 10′20	31.28131 AU
min. Earth dist.	-7604 Jan 26 j 01:45		29.27258 AU	morning rise	-7598 Aug 27 j 23:14	24° ∏ 45′50	
direct	-7604 Apr 15 j 17:37	8° Ⅱ 36'13		retrograde	-7598 Nov 22 j 22:52	26° Ⅱ 38'54	
evening set	-7604 Jul 15 j 02:18	10° Ⅲ 32′26		opposition	-7597 Feb 09 j 20:09	25° Ⅱ 16'49	
				min. Earth dist.	-7597 Feb 10 j 12:10		29.28320 AU
conjunction	-7604 Jul 30 j 11:23	11° Ⅱ 06'53	1°41'36	direct	-7597 May 02 j 06:07	23° ∏ 52′27	
minimum elong	-7604 Jul 30 j 11:23	11° Ⅱ 06'53	1°42'04	evening set	-7597 Jul 31 j 00:30	25° Ⅱ 48'13	
max. Earth dist.	-7604 Jul 29 j 14:59		31.27382 AU				
morning rise	-7604 Aug 14 j 17:32	11° Ⅱ 41'05		conjunction	-7597 Aug 15 j 05:20	26° ∏ 22'22	2°06'38
retrograde	-7604 Nov 09 j 06:49	13° Ⅱ 33'37	1050142	minimum elong	-7597 Aug 15 j 05:19	26° ∏ 22'22	2°07'09
opposition	-7603 Jan 26 j 17:40	12° Ⅱ 11'48		max. Earth dist.	-7597 Aug 14 j 13:18	26°Щ20'51 26°Щ56'19	31.28222 AU
min. Earth dist. direct	-7603 Jan 27 j 12:35 -7603 Apr 18 j 05:39	12° П 10'32 10° П 47'15	29.27701 AU	morning rise	-7597 Aug 30 j 08:05 -7597 Nov 25 j 10:02	28° П 49'29	
evening set	-7603 Jul 17 j 12:40	10 П 47 13 12° П 43'26		retrograde opposition	-7596 Feb 12 j 08:35	28 H4929 27°H27'22	2016/52
evening set	-7003 Jul 17 J 12.40	12 1143 20		min. Earth dist.	-7596 Feb 12 j 22:48		29.28463 AU
conjunction	-7603 Aug 01 j 21:09	13° Ⅱ 17'51	1°45'39	direct	-7596 May 03 j 18:23	26° I 103'04	29.28403 AU
minimum elong	-7603 Aug 01 j 21:09	13° Д 17'51	1°46'08	evening set	-7596 Aug 01 j 10:01	27° I 58'46	
max. Earth dist.	-7603 Aug 01 j 01:23		31.27748 AU	evening sec	7570 Hug 01 j 10.01	27 230 10	
morning rise	-7603 Aug 17 j 02:40	13° Ⅲ 52'01	31.27710110	conjunction	-7596 Aug 16 j 14:27	28° ∏ 32'52	2°09'32
retrograde	-7603 Nov 11 j 17:21	15° Ⅱ 44'39		minimum elong	-7596 Aug 16 j 14:26	28° ∏ 32'52	
opposition	-7602 Jan 29 j 06:08	14° Ⅱ 22'49	1°54'58	max. Earth dist.	-7596 Aug 16 j 00:19		31.28397 AU
min. Earth dist.	-7602 Jan 30 j 01:37	14° Ⅱ 21'30	29.28017 AU	morning rise	-7596 Aug 31 j 16:38	29° Ⅱ 06'48	
direct	-7602 Apr 20 j 16:10	12° Ⅱ 58'19		Č	-7596 Sep 26 j 16:03	0ಂತಾ	
evening set	-7602 Jul 19 j 22:51	14° Ⅱ 54'27		retrograde	-7596 Nov 26 j 19:52	1°500'05	
max. Earth dist.	-7602 Aug 03 j 11:27	15° Ⅲ 27′00	31.27993 AU		-7595 Jan 31 j 02:23	30°RⅡ	
				opposition	-7595 Feb 13 j 21:17	29° Ⅱ 37'57	2°19'51
conjunction	-7602 Aug 04 j 06:44	15° Ⅲ 28'49	1°49'34	min. Earth dist.	-7595 Feb 14 j 11:27	29° Ⅲ 37′00	29.28685 AU
minimum elong	-7602 Aug 04 j 06:43	15° Ⅱ 28'49	1°50'03	direct	-7595 May 06 j 06:16	28° ∏ 13'44	
morning rise	-7602 Aug 19 j 11:45	16° Ⅱ 02'56			-7595 Jul 30 j 12:57	0 \circ \odot	
retrograde	-7602 Nov 14 j 04:03	17° Ⅱ 55'40		evening set	-7595 Aug 03 j 19:40	0° © 09'22	
opposition	-7601 Jan 31 j 18:28	16° Ⅲ 33'49					
min. Earth dist.	-7601 Feb 01 j 12:43		29.28191 AU	conjunction	-7595 Aug 18 j 23:31	0°5543'26	
direct	-7601 Apr 23 j 04:09	15° Ⅱ 09'21		minimum elong	-7595 Aug 18 j 23:30		
evening set	-7601 Jul 22 j 09:04	17° Ⅱ 05′25		max. Earth dist.	-7595 Aug 18 j 09:56		31.28656 AU
aanius -t:	7601 4 06:16:16	170∏20144	1052110	morning rise	-7595 Sep 03 j 01:27	1°517'21	
conjunction	-7601 Aug 06 j 16:16	17° ∏ 39'44		retrograde	-7595 Nov 29 j 06:00	3°510'45	2022120
minimum elong max. Earth dist.	-7601 Aug 06 j 16:15 -7601 Aug 05 j 20:57	17° ∏ 39'44	1°53'48 31.28100 AU	opposition min. Earth dist.	-7594 Feb 16 j 09:47	1°948'37	2°22'39 29.28967 AU
max. Earth dist. morning rise	-7601 Aug 05 j 20:57 -7601 Aug 21 j 20:48	1/°Щ3/′54 18°Щ13′49	31.28100 AU	min. Earth dist. direct	-7594 Feb 16 j 21:56 -7594 May 08 j 17:45	0°924'28	47.4690 / AU
retrograde	-7601 Nov 16 j 15:22	18 П 1349 20° П 06'38		evening set	-7594 Aug 06 j 05:08	2°\$20'03	
opposition	-7600 Feb 03 j 06:49	18° ∏ 44'44	2°02'59	evening set	-7394 Aug 00 J 03.08	2 32003	
min. Earth dist.	-7600 Feb 04 j 01:13		29.28261 AU	conjunction	-7594 Aug 21 j 08:34	2° © 54'06	2°14'45
direct	-7600 Apr 24 j 15:37	17° Ⅲ 20′18	2).20201 AU	minimum elong	-7594 Aug 21 j 08:33	2°954'06	
evening set	-7600 Jul 23 j 19:05	19° Ⅱ 16'17		max. Earth dist.	-7594 Aug 20 j 20:00		31.28935 AU
max. Earth dist.	-7600 Aug 07 j 07:56		31.28127 AU	morning rise	-7594 Sep 05 j 10:07	3°\$28'00	
				retrograde	-7594 Dec 01 j 16:24	5°9521'32	
conjunction	-7600 Aug 08 j 01:46	19° Ⅱ 50'33	1°56'54	opposition	-7593 Feb 18 j 22:32	3°\$59'24	2°25'14
minimum elong	-7600 Aug 08 j 01:46	19° Ⅲ 50'33	1°57'24	min. Earth dist.	-7593 Feb 19 j 10:51		29.29249 AU
morning rise	-7600 Aug 23 j 05:44	20° Ⅲ 24'37		direct	-7593 May 11 j 03:45	2° © 35'20	
retrograde	-7600 Nov 18 j 02:22	22° Ⅱ 17'30		evening set	-7593 Aug 08 j 14:41	4° © 30'52	
opposition	-7599 Feb 04 j 19:18	20° ∏ 55'32	2°06'44	-			
min. Earth dist.	-7599 Feb 05 j 12:48		29.28261 AU	conjunction	-7593 Aug 23 j 17:39	5° 5 04'53	2°17'04
direct	-7599 Apr 27 j 05:38	19° Ⅱ 31′07		minimum elong	-7593 Aug 23 j 17:39	5° © 04'53	2°17'35
evening set	-7599 Jul 26 j 04:57	21° Ⅲ 27′02		max. Earth dist.	-7593 Aug 23 j 06:07	5° © 03'47	31.29194 AU
				morning rise	-7593 Sep 07 j 18:51	5° © 38'45	

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7593 in astronomical counting style is the year 7594 BCE in historical counting style. -7593 Dec 04 i 03:13 7°532'26 minimum elong -7586 Sep 07 i 09:10 20°520'56 2°28'11 retrograde opposition -7592 Feb 21 j 11:12 6°9510'17 2°27'36 -7586 Sep 07 j 02:37 max. Earth dist. 20°520'18 31.27760 AU 6°509'33 29.29469 AU -7592 Feb 21 j 21:59 -7586 Sep 22 j 09:03 min. Earth dist. 20°954'44 morning rise 22°5649'12 -7586 Dec 19 j 09:50 -7592 May 12 j 15:11 4°9646'18 direct retrograde -7592 Aug 10 j 00:19 evening set 6°9541'46 opposition -7585 Mar 09 j 05:52 21°**©**26'36 2°38'11 min. Earth dist. -7585 Mar 09 j 11:07 21°526'14 29.27727 AU conjunction -7592 Aug 25 j 02:46 7°**©**15'45 2°19'11 direct -7585 May 29 j 03:26 20°902'51 7°**©**15'45 minimum elong -7592 Aug 25 j 02:45 2°19'42 evening set -7585 Aug 25 j 17:39 21°957'40 max. Earth dist. -7592 Aug 24 j 15:21 7°514'40 31.29364 AU morning rise -7592 Sep 09 j 03:44 7°9549'37 conjunction -7585 Sep 09 j 18:00 22°531'31 2°28'22 retrograde -7592 Dec 05 j 15:25 9°9543'27 minimum elong -7585 Sep 09 j 18:00 22°**©**31'31 2°28'51 -7585 Sep 09 j 12:32 opposition -7591 Feb 23 j 00:11 8°**9**21'15 2°29'46 max. Earth dist. 22°531'00 31.27305 AU min. Earth dist. -7591 Feb 23 j 10:53 8°520'32 29.29599 AU morning rise -7585 Sep 24 j 17:46 23°905'19 direct -7591 May 15 j 01:53 6°957'21 retrograde -7585 Dec 21 j 20:07 24°959'55 evening set -7591 Aug 12 j 09:44 8°952'45 opposition -7584 Mar 10 j 18:54 23°**©**37'14 2°38'48 min. Earth dist. -7584 Mar 10 j 23:54 23°536'54 29.27318 AU conjunction -7591 Aug 27 j 11:55 9°526'42 2°21'07 direct -7584 May 30 j 13:49 22°513'32 minimum elong -7591 Aug 27 j 11:54 9°526'42 2°21'37 evening set -7584 Aug 27 j 02:41 24°9508'16 max. Earth dist. -7591 Aug 27 j 02:04 9°525'46 31.29422 AU morning rise -7591 Sep 11 j 12:29 10°9500'33 conjunction -7584 Sep 11 j 02:55 24°9542'06 2°28'50 retrograde -7591 Dec 08 j 02:50 11°954'30 minimum elong -7584 Sep 11 j 02:55 24°5542'06 2°29'19 opposition -7590 Feb 25 i 13:10 10°532'17 2°31'43 max. Earth dist. -7584 Sep 10 j 23:02 24°5641'44 31.26943 AU min. Earth dist. -7590 Feb 25 i 23:00 10°931'37 29.29581 AU morning rise -7584 Sep 26 i 02:35 25°9515'54 -7590 May 17 j 14:36 9°9508'26 retrograde -7584 Dec 23 i 06:57 27°9510'38 direct -7590 Aug 14 j 19:24 11°903'45 -7583 Mar 13 j 07:51 25°547'54 2°39'12 evening set opposition -7583 Mar 13 j 10:42 min. Earth dist. 25°5647'43 29 26994 AU -7590 Aug 29 j 21:03 11°937'41 2°22'50 -7583 Jun 02 j 01:09 24°924'16 conjunction direct -7590 Aug 29 j 21:03 -7583 Aug 29 j 11:40 11°937'41 2°23'21 26°9018'55 minimum elong evening set -7590 Aug 29 j 10:45 max. Earth dist. 11°536'42 31.29327 AU -7590 Sep 13 j 21:34 26°952'45 2°29'06 12°9511'31 conjunction -7583 Sep 13 j 11:39 morning rise -7590 Dec 10 j 15:13 14°905'35 -7583 Sep 13 j 11:40 26°952'45 2°29'34 retrograde minimum elong 12°543'18 2°33'27 -7589 Feb 28 j 01:57 max. Earth dist. -7583 Sep 13 j 08:16 26°952'25 31.26660 AU opposition min. Earth dist. -7589 Feb 28 j 11:05 12°**©**42'41 29.29419 AU -7583 Sep 28 j 11:28 27°9526'34 morning rise -7589 May 20 j 01:10 -7583 Dec 25 j 19:16 direct 11°9519'29 retrograde 29°9521'28 -7582 Mar 15 j 20:55 evening set -7589 Aug 17 j 04:50 13°9514'44 opposition 27°958'41 2°39'21 min. Earth dist. -7582 Mar 15 j 23:14 27°958'32 29.26751 AU -7589 Sep 01 j 06:19 conjunction 13°9548'38 2°24'21 direct -7582 Jun 04 j 11:06 26°935'08 -7589 Sep 01 j 06:19 13°9548'38 2°24'52 evening set -7582 Aug 31 j 20:37 28°9529'43 minimum elong max. Earth dist. -7589 Aug 31 j 21:36 13°5047'48 31.29079 AU -7589 Sep 16 j 06:27 14°9522'27 conjunction -7582 Sep 15 j 20:39 29°503'32 2°29'08 morning rise retrograde -7589 Dec 13 j 01:21 16°9516'37 -7582 Sep 15 j 20:40 29°503'32 2°29'37 minimum elong -7588 Mar 01 j 15:01 14°954'16 2°34'58 -7582 Sep 15 j 19:19 29°503'24 31.26440 AU opposition max. Earth dist. -7588 Mar 01 j 23:55 14°553'41 29.29097 AU -7582 Sep 30 j 20:21 29°537'21 min. Earth dist. morning rise 13°930'29 -7582 Oct 11 j 07:22 direct -7588 May 21 j 14:37 0° Ω -7588 Aug 18 j 14:13 -7582 Dec 28 j 06:57 evening set 15°**©**25'37 retrograde 1°**Ω**32'24 opposition -7581 Mar 18 i 09:47 0°Ω09'37 2°39'17 -7588 Sep 02 i 15:14 conjunction 15°959'30 2°25'40 min. Earth dist. -7581 Mar 18 j 10:51 0°Ω09'32 29.26534 AU minimum elong -7588 Sep 02 i 15:14 15°559'30 2°26'11 -7581 Mar 24 i 08:44 30°R55 max. Earth dist. -7588 Sep 02 i 06:22 15°558'40 31.28704 AU direct -7581 Jun 06 i 22:24 28°9546'08 -7588 Sep 17 i 15:22 16°933'19 -7581 Aug 14 j 21:52 $0^{\circ}\Omega$ morning rise -7588 Dec 14 j 13:31 18°927'35 -7581 Sep 03 j 05:44 0°**Ω**40'40 retrograde evening set -7587 Mar 04 j 04:01 17°505'09 2°36'16 opposition 17°504'39 29.28675 AU -7581 Sep 18 j 05:31 1°Ω14'29 2°28'58 min. Earth dist. -7587 Mar 04 j 11:21 conjunction direct -7587 May 24 j 03:09 15°9541'22 minimum elong -7581 Sep 18 j 05:31 1°Ω14'29 2°29'26 -7587 Aug 20 j 23:26 17°936'24 max. Earth dist. -7581 Sep 18 j 04:09 1°**Ω**14'21 31.26231 AU evening set -7581 Oct 03 j 05:26 1°**Ω**48'19 morning rise conjunction -7587 Sep 05 j 00:19 18°9510'16 2°26'47 -7581 Dec 30 j 19:58 3°**£**43′32 retrograde -7587 Sep 05 j 00:18 18°910'16 2°27'17 -7580 Mar 19 j 22:54 2°Ω20'43 2°38'59 minimum elong opposition -7587 Sep 04 j 17:03 -7580 Mar 19 j 22:52 2°**\$\Omega**20'43 29.26319 AU max. Earth dist. 18°909'35 31.28237 AU min. Earth dist. 0°**Ω**57'19 morning rise -7587 Sep 20 j 00:12 18°9544'05 direct -7580 Jun 08 j 07:48 retrograde -7587 Dec 16 j 23:37 20°938'27 evening set -7580 Sep 04 j 14:37 2°**£**51'47 -7586 Mar 06 j 17:01 19°**©**15'55 2°37'20 opposition min. Earth dist. -7586 Mar 07 j 00:26 19°**©**15'25 29.28196 AU conjunction -7580 Sep 19 j 14:30 3°**Ω**25'36 2°28'34 direct -7586 May 26 j 15:20 17°952'10 minimum elong -7580 Sep 19 j 14:30 3°**Ω**25'37 2°29'02 evening set -7586 Aug 23 j 08:35 19°9547'05 max. Earth dist. -7580 Sep 19 j 15:03 3°**Ω**25'40 31.25987 AU -7580 Oct 04 j 14:21 3°**Ω**59'28 morning rise -7586 Sep 07 j 09:10 20°\$20'56 2°27'40 -7579 Jan 01 j 07:22 5°**Ω**54'50 conjunction retrograde

Planetary Pheno	omena of Neptune f	From -7900	through -7398	(UT), Astrodien	st AG 18-Feb-2025	14:23,	page 26
Attention, astronom	nical year style is used: Th	e year -7579	in astronomical co	unting style is the year	r 7580 BCE in historical	counting style.	
opposition	-7579 Mar 22 j 12:09	4° Ω 31'58	2°38'27	conjunction	-7573 Oct 05 j 06:19	18° Ω 44'27	2°19'57
min. Earth dist.	-7579 Mar 22 j 11:41	4° Ω 32′00	29.26036 AU	minimum elong	-7573 Oct 05 j 06:20	18° Ω 44'27	2°20'19
direct	-7579 Jun 10 j 20:37	3° Ω 08'39		max. Earth dist.	-7573 Oct 05 j 12:50	18° Ω 45'04	31.21417 AU
evening set	-7579 Sep 06 j 23:47	5° Ω 03'03		morning rise	-7573 Oct 20 j 07:50		
•				retrograde	-7572 Jan 17 j 14:58	21° Ω 14'35	
conjunction	-7579 Sep 21 j 23:32	5° Ω 36'53	2°27'58	opposition	-7572 Apr 07 j 08:05	19° Ω 51'05	2°28'28
minimum elong	-7579 Sep 21 j 23:32	5° Ω 36'53	2°28'25	min. Earth dist.	-7572 Apr 07 j 01:12		29.21203 AU
max. Earth dist.	-7579 Sep 22 j 00:02		31.25667 AU	direct	-7572 Jun 26 j 05:49	18° Ω 27'53	
morning rise	-7579 Oct 06 j 23:39	6° Ω 10'45	31.20007110	evening set	-7572 Sep 21 j 14:37	20° Ω 21'29	
retrograde	-7578 Jan 03 j 21:08	8° Ω 06'15		evening sec	7072 50p 21 j 1 1.57	20 002129	
opposition	-7578 Mar 25 j 01:10	6°Ω43'21	2°37'42	conjunction	-7572 Oct 06 j 15:14	20° Ω 55'23	2°17'54
min. Earth dist.	-7578 Mar 24 j 23:14		29.25664 AU	minimum elong	-7572 Oct 06 j 15:15	20° Ω 55'23	
direct	-7578 Jun 13 j 08:33	5° Ω 20'05	29.23004 AU	max. Earth dist.	-7572 Oct 06 j 21:56		31.20666 AU
					-		31.20000 AU
evening set	-7578 Sep 09 j 08:53	7° Ω 14'25		morning rise	-7572 Oct 21 j 17:16	21° Ω 29'25	
	7570 0 04:00 45	70.0 4011.5	2027100	retrograde	-7571 Jan 19 j 04:01	23° Ω 25'40	202410
conjunction	-7578 Sep 24 j 08:45	7° Ω 48'15	2°27'09	opposition	-7571 Apr 09 j 21:11	22° Ω 02'04	
minimum elong	-7578 Sep 24 j 08:46	7° Ω 48'15		min. Earth dist.	-7571 Apr 09 j 12:57		29.20507 AU
max. Earth dist.	-7578 Sep 24 j 10:30		31.25221 AU	direct	-7571 Jun 28 j 15:13	20° Ω 38'54	
morning rise	-7578 Oct 09 j 08:57	8° Ω 22'08		evening set	-7571 Sep 23 j 23:27	22° Ω 32'24	
retrograde	-7577 Jan 06 j 08:14	10° Ω 17'47					
opposition	-7577 Mar 27 j 14:26	8° Ω 54'48	2°36'42	conjunction	-7571 Oct 09 j 00:28	23° Ω 06′20	2°15'39
min. Earth dist.	-7577 Mar 27 j 12:49	8° Ω 54'55	29.25147 AU	minimum elong	-7571 Oct 09 j 00:29	23° Ω 06′20	2°16'00
direct	-7577 Jun 15 j 20:14	7° Ω 31'35		max. Earth dist.	-7571 Oct 09 j 09:16	23° Ω 07'10	31.20020 AU
evening set	-7577 Sep 11 j 17:57	9° Ω 25'49		morning rise	-7571 Oct 24 j 02:46	23° Ω 40′24	
Č	1 ,			retrograde	-7570 Jan 21 j 15:35	25° Ω 36'45	
conjunction	-7577 Sep 26 j 17:50	9° Ω 59'39	2°26'07	opposition	-7570 Apr 12 j 10:07	24° Ω 13'06	2°23'40
minimum elong	-7577 Sep 26 j 17:51	9° Ω 59'39	2°26'33	min. Earth dist.	-7570 Apr 12 j 01:07		29.19907 AU
max. Earth dist.	-7577 Sep 26 j 20:06		31.24642 AU	direct	-7570 Jul 01 j 03:04	22°Ω49'58	27.17707 110
morning rise	-7577 Oct 11 j 18:15	10° Ω 33'34	31.24042 710	evening set	-7570 Sep 26 j 08:24	24°Ω43'24	
•	-7576 Jan 08 j 19:06	10° Ω 23'34'		evening set	-7570 Sep 20 j 08.24	24 0643 24	
retrograde	•		2025120		7570 0 4 11 : 00 26	250 0 17121	2012112
opposition	-7576 Mar 29 j 03:35	11° Ω 06'16		conjunction	-7570 Oct 11 j 09:36	25°Ω17'21	
min. Earth dist.	-7576 Mar 29 j 00:08		29.24490 AU	minimum elong	-7570 Oct 11 j 09:37	25° Ω 17'21	
direct	-7576 Jun 17 j 08:54	9° Ω 43'04		max. Earth dist.	-7570 Oct 11 j 18:46		31.19481 AU
evening set	-7576 Sep 13 j 03:03	11° Ω 37'10		morning rise	-7570 Oct 26 j 12:26	25° Ω 51′27	
				retrograde	-7569 Jan 24 j 05:45	27° Ω 47'56	
conjunction	-7576 Sep 28 j 03:00	12° Ω 11′02	2°24'53	opposition	-7569 Apr 14 j 23:05	26° Ω 24'14	2°20'56
minimum elong	-7576 Sep 28 j 03:01	12° Ω 11′02	2°25'18	min. Earth dist.	-7569 Apr 14 j 12:14	26° Ω 24'58	29.19400 AU
max. Earth dist.	-7576 Sep 28 j 05:47	12° Ω 11'17	31.23921 AU	direct	-7569 Jul 03 j 13:52	25° Ω 01'10	
morning rise	-7576 Oct 13 j 03:43	12° Ω 44'58		evening set	-7569 Sep 28 j 17:13	26° Ω 54'32	
retrograde	-7575 Jan 10 j 06:08	14° Ω 40'49					
opposition	-7575 Mar 31 j 16:54	13° Ω 17'39	2°34'04	conjunction	-7569 Oct 13 j 18:46	27° Ω 28'31	2°10'33
min. Earth dist.	-7575 Mar 31 j 13:39		29.23717 AU	minimum elong	-7569 Oct 13 j 18:46	27° Ω 28'31	2°10'53
direct	-7575 Jun 19 j 20:11	11° Ω 54'28		max. Earth dist.	-7569 Oct 14 j 05:29		31.18999 AU
evening set	-7575 Sep 15 j 11:55	13° Ω 48′26		morning rise	-7569 Oct 28 j 21:57	28° Ω 02'40	
e venning see	7070 Sep 10 j 11.00	15 00 10 20		retrograde	-7568 Jan 26 j 17:24		
conjunction	-7575 Sep 30 j 12:08	14° Ω 22'18	2°23'26	opposition	-7568 Apr 16 j 12:16	28° Ω 35'33	2°18'00
minimum elong	-7575 Sep 30 j 12:09	14° Ω 22'18		min. Earth dist.	-7568 Apr 16 j 01:24		29.18932 AU
max. Earth dist.	-7575 Sep 30 j 16:18		31.23113 AU	direct	-7568 Jul 05 j 00:43	27° Ω 12'34	27.10732 AU
morning rise	-7575 Oct 15 j 13:03	14 δ(22 42 14° Ω 56'15	J1.23113 AU	evening set	-7568 Sep 30 j 02:13	27 δ (12 34 29° Ω 05'51	
morning rise				evening set	-1300 sep 30 J 02:13	47 66 0331	
	-7575 Oct 17 j 05:42	15° Ω			75(0.0 / 15:04.05	200 0 20152	2907142
retrograde	-7574 Jan 12 j 16:51	16° Ω 52'12		conjunction	-7568 Oct 15 j 04:07	29° Ω 39'52	
opposition	-7574 Apr 03 j 05:58	15° Ω 28'55		minimum elong	-7568 Oct 15 j 04:08	29° Ω 39'52	
min. Earth dist.	-7574 Apr 03 j 00:56		29.22864 AU	max. Earth dist.	-7568 Oct 15 j 15:47		31.18555 AU
	-7574 Apr 21 j 11:46	15° ŖΩ			-7568 Oct 24 j 00:55	0° m ∕	
direct	-7574 Jun 22 j 08:33	14° Ω 05'43		morning rise	-7568 Oct 30 j 07:47	0° m 14'04	
	-7574 Aug 19 j 10:09	15° Ω		retrograde	-7567 Jan 28 j 05:55	2° Mp 10'50	
evening set	-7574 Sep 17 j 20:56	15° Ω 59'34		opposition	-7567 Apr 19 j 01:17	0° ™ 47'04	2°14'52
				min. Earth dist.	-7567 Apr 18 j 12:31	0° ™ 47'56	29.18473 AU
conjunction	-7574 Oct 02 j 21:10	16° Ω 33'26	2°21'48		-7567 May 19 j 19:50	30°R Ω	
minimum elong	-7574 Oct 02 j 21:10	16° Ω 33'26		direct	-7567 Jul 07 j 12:46	29° Ω 24'09	
max. Earth dist.	-7574 Oct 03 j 01:29		31.22249 AU		-7567 Aug 23 j 00:44	0° m/	
morning rise	-7574 Oct 17 j 22:31	17° Ω 07'25		evening set	-7567 Oct 02 j 11:20		
retrograde	-7573 Jan 15 j 04:15	19° Ω 03'27			000 02 11.20		
opposition	-7573 Apr 05 j 19:00	17° Ω 40'03	2°30'33	conjunction	-7567 Oct 17 j 13:32	1° m 51'26	2°04'41
min. Earth dist.	-7573 Apr 05 j 13:36		29.22010 AU	minimum elong	-7567 Oct 17 j 13:32		
			27.22010 AU	max. Earth dist.	-		
direct	-7573 Jun 24 j 18:31	16°Ω16'51			-7567 Oct 18 j 01:38 -7567 Nov 01 j 17:46	-	31.18075 AU
evening set	-7573 Sep 20 j 05:46	18° Ω 10'33		morning rise	-/30/ NOV UI J 1/:40	2° m 25'41	

Planetary Phen	omena of Neptune f	from -7900	through -7398	8 (UT), Astrodien	st AG 18-Feb-2025	14:23, 1	page 27
•	nical year style is used: Th		-	* **			. 0
retrograde	-7566 Jan 30 j 18:21	4° m/22'35		minimum elong	-7560 Nov 01 j 09:50	17° m 15'06	1°38'50
opposition	-7566 Apr 21 j 14:29	2° m 58'47	2°11'31	max. Earth dist.	-7560 Nov 02 j 03:12	17° m) 16'44	31.12173 AU
min. Earth dist.	-7566 Apr 21 j 02:01	2° m 59'38	29.17961 AU	morning rise	-7560 Nov 16 j 18:02	17° m 49'41	
direct	-7566 Jul 09 j 23:35	1° m 35'57		retrograde	-7559 Feb 15 j 07:59	19° m 47'15	
evening set	-7566 Oct 04 j 20:31	3° m/29'07		opposition	-7559 May 07 j 09:28	18° m 22'53	1°43'07
•	·	•		min. Earth dist.	-7559 May 06 j 16:11	18° m 24'04	29.11833 AU
conjunction	-7566 Oct 19 j 23:12	4° mg 03'12	2°01'28	direct	-7559 Jul 25 j 02:49	17° m 00'07	
minimum elong	-7566 Oct 19 j 23:13	4° m) 03'12	2°01'44	evening set	-7559 Oct 19 j 13:47	18° m 52'39	
max. Earth dist.	-7566 Oct 20 j 12:35	4° m/04'28	31.17524 AU	•	·		
morning rise	-7566 Nov 04 j 03:48	4° m 37'30		conjunction	-7559 Nov 03 j 19:47	19° m 27'00	1°34'20
retrograde	-7565 Feb 02 j 05:55	6° m 34'31		minimum elong	-7559 Nov 03 j 19:48	19° m 27'00	1°34'29
opposition	-7565 Apr 24 j 03:26	5° m 10'42	2°07'59	max. Earth dist.	-7559 Nov 04 j 14:11	19° m 28'45	31.11316 AU
min. Earth dist.	-7565 Apr 23 j 13:28	5° m 11'39	29.17343 AU	morning rise	-7559 Nov 19 j 04:37	20° m 01'38	
direct	-7565 Jul 12 j 11:36	3° m 47'55		retrograde	-7558 Feb 17 j 21:27	21° m 59'17	
evening set	-7565 Oct 07 j 05:55	5° m 41'00		opposition	-7558 May 09 j 22:11	20° m/34'51	1°38'24
•	·	•		min. Earth dist.	-7558 May 09 j 02:58	20° m/36'09	29.11016 AU
conjunction	-7565 Oct 22 j 08:50	6° Mp 15'07	1°58'04	direct	-7558 Jul 27 j 15:28	19° m 12'06	
minimum elong	-7565 Oct 22 j 08:51	6° Mp 15'07	1°58'20	evening set	-7558 Oct 21 j 23:17	21° Mp 04'34	
max. Earth dist.	-7565 Oct 22 j 21:54	6° m 16'22	31.16853 AU		·	•	
morning rise	-7565 Nov 06 j 14:07	6° Mp 49′28		conjunction	-7558 Nov 06 j 05:42	21° m/38'58	1°29'51
retrograde	-7564 Feb 04 j 18:03	8° Mp 46'37		minimum elong	-7558 Nov 06 j 05:43	21° m/38'58	1°29'59
opposition	-7564 Apr 25 j 16:41	7° m) 22'44	2°04'16	max. Earth dist.	-7558 Nov 07 j 00:32	21° m/40'45	31.10547 AU
min. Earth dist.	-7564 Apr 25 j 02:47	7° m) 23'41	29.16609 AU	morning rise	-7558 Nov 21 j 15:15	22° m 13'39	
direct	-7564 Jul 13 j 21:20	5° m 59'59		retrograde	-7557 Feb 20 j 10:52	24° m/11'23	
evening set	-7564 Oct 08 j 15:05	7° m 52'59		opposition	-7557 May 12 j 11:00	22° m/46'54	1°33'32
•	·			min. Earth dist.	-7557 May 11 j 15:54	22° m/48'12	29.10296 AU
conjunction	-7564 Oct 23 j 18:38	8° m 27'09	1°54'31	direct	-7557 Jul 30 j 02:27	21° m)24'11	
minimum elong	-7564 Oct 23 j 18:39	8° m/27'09	1°54'45	evening set	-7557 Oct 24 j 08:44	23° m/ 16'35	
max. Earth dist.	-7564 Oct 24 j 09:21	8° m 28'33	31.16058 AU		·	•	
morning rise	-7564 Nov 08 j 00:20	9° m 01'32		conjunction	-7557 Nov 08 j 15:50	23° m/51'02	1°25'14
retrograde	-7563 Feb 06 j 05:06	10° m 58'48		minimum elong	-7557 Nov 08 j 15:51	23° m 51'02	1°25'21
opposition	-7563 Apr 28 j 05:49	9° m/34'50	2°00'22	max. Earth dist.	-7557 Nov 09 j 12:18	23° m 52'58	31.09883 AU
min. Earth dist.	-7563 Apr 27 j 15:04	9°m/35'50	29.15734 AU	morning rise	-7557 Nov 24 j 01:55	24° m/25'47	
direct	-7563 Jul 16 j 08:31	8° Mp 12'06		retrograde	-7556 Feb 22 j 22:35	26° m 23'36	
evening set	-7563 Oct 11 j 00:33	10° m/05'00		opposition	-7556 May 13 j 23:44	24° m 59'05	1°28'32
	·			min. Earth dist.	-7556 May 13 j 02:55	25° m 00'30	29.09654 AU
conjunction	-7563 Oct 26 j 04:25	10°m/39'12	1°50'47	direct	-7556 Jul 31 j 14:27	23° m 36'24	
minimum elong	-7563 Oct 26 j 04:26	10°m/39'12	1°51'01	evening set	-7556 Oct 25 j 18:23	25° m 28'46	
max. Earth dist.	-7563 Oct 26 j 18:41	10° m 40'33	31.15141 AU				
morning rise	-7563 Nov 10 j 10:53	11° m 13'39		conjunction	-7556 Nov 10 j 01:55	26° Mp 03'15	1°20'30
retrograde	-7562 Feb 08 j 18:30	13° m 10'59		minimum elong	-7556 Nov 10 j 01:55	26° Mp 03'15	1°20'35
opposition	-7562 Apr 30 j 18:42	11°Mp46'55	1°56'18	max. Earth dist.	-7556 Nov 10 j 22:14	26° m 05'10	31.09274 AU
min. Earth dist.	-7562 Apr 30 j 03:22	11° m)47'58	29.14768 AU	morning rise	-7556 Nov 25 j 12:50	26° m 38'03	
direct	-7562 Jul 18 j 17:56	10°M 24'11		retrograde	-7555 Feb 24 j 11:01	28° m 35'59	
evening set	-7562 Oct 13 j 09:48	12°M) 16'59		opposition	-7555 May 16 j 12:38	27° m 11'25	1°23'23
				min. Earth dist.	-7555 May 15 j 15:53	27° m 12'50	29.09057 AU
conjunction	-7562 Oct 28 j 14:17	12° m 51'13	1°46'54	direct	-7555 Aug 03 j 00:14	25° m 48'47	
minimum elong	-7562 Oct 28 j 14:18	12° m 51'13	1°47'06	evening set	-7555 Oct 28 j 04:09	27° Mp 41'06	
max. Earth dist.	-7562 Oct 29 j 06:06	12° m 52'43	31.14142 AU				
morning rise	-7562 Nov 12 j 21:13	13° m 25'43		conjunction	-7555 Nov 12 j 12:25	28° m 15'38	1°15'37
retrograde	-7561 Feb 11 j 06:07	15° m 23'07		minimum elong	-7555 Nov 12 j 12:25	28° m 15'38	1°15'41
opposition	-7561 May 03 j 07:41	13° m 58'58	1°52'04	max. Earth dist.	-7555 Nov 13 j 10:25	28° m 17'43	31.08679 AU
min. Earth dist.	-7561 May 02 j 15:58	14° Mp 00'02	29.13745 AU	morning rise	-7555 Nov 27 j 23:50	28° m 50'30	
direct	-7561 Jul 21 j 05:48	12°M 36'12			-7554 Jan 02 j 03:52	0∘ ⊽	
evening set	-7561 Oct 15 j 19:04	14° m 28'55		retrograde	-7554 Feb 26 j 22:22	0° ჲ 48'31	
					-7554 Apr 26 j 07:33	30°R, Mp	
conjunction	-7561 Oct 30 j 23:56	15°Mp03'11	1°42'52	min. Earth dist.	-7554 May 18 j 03:46	29° m 25'24	29.08438 AU
minimum elong	-7561 Oct 30 j 23:57	15°Mp03'11	1°43'03	opposition	-7554 May 19 j 01:13	29° m 23'56	1°18'07
max. Earth dist.	-7561 Oct 31 j 16:01	15° Mp 04'42	31.13137 AU	direct	-7554 Aug 05 j 11:31	28° Mp $01'21$	
morning rise	-7561 Nov 15 j 07:33	15° m 37'43		evening set	-7554 Oct 30 j 14:11	29° m 53'37	
retrograde	-7560 Feb 13 j 20:19	17° m 35'12			-7554 Nov 02 j 11:09	0∘ ত	
opposition	-7560 May 04 j 20:35	16° Mp 10'56	1°47'40				
min. Earth dist.	-7560 May 04 j 03:16		29.12753 AU	conjunction	-7554 Nov 14 j 22:52	0° ჲ 28'12	1°10'38
direct	-7560 Jul 22 j 16:27	14° m 48'10		minimum elong	-7554 Nov 14 j 22:53	12'2 2ء °0	1°10'41
evening set	-7560 Oct 17 j 04:26	16° m 40'47		max. Earth dist.	-7554 Nov 15 j 20:18	0° ჲ 30'14	31.08045 AU
				morning rise	-7554 Nov 30 j 11:07	1° ≏ 03'07	
conjunction	-7560 Nov 01 j 09:49	17° m 15'06	1°38'40	retrograde	-7553 Mar 01 j 12:16	3° ჲ 01'14	

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7553 in astronomical counting style is the year 7554 BCE in historical counting style. -7553 May 21 j 14:02 1°**2**36'37 1°12'43 max. Earth dist. -7547 Dec 01 i 02:59 16° **2**00'03 31.01136 AU opposition 1°**2**38'07 29.07766 AU -7553 May 20 j 16:15 -7547 Dec 15 j 20:05 16°**£**33'05 min. Earth dist. morning rise -7553 Aug 07 j 21:01 0°**£**14'03 -7546 Mar 17 j 06:46 direct retrograde 18°**£**31'34 -7553 Nov 02 j 00:08 2°**2**06'18 min. Earth dist. -7546 Jun 05 j 06:23 17° **2**08'03 29.00697 AU evening set -7546 Jun 06 j 05:58 opposition 17°**≏**06'26 0°32'24 -7553 Nov 17 j 09:30 conjunction 2°**£**40'55 1°05'32 direct -7546 Aug 23 j 03:22 15°**£**43'42 2°**-**40′55 -7553 Nov 17 j 09:30 minimum elong 1°05'34 evening set -7546 Nov 17 j 00:45 17°**£**35'39 2°**2**43'03 31.07319 AU max. Earth dist. -7553 Nov 18 j 08:06 morning rise -7553 Dec 02 j 22:16 3°**2**15'54 conjunction -7546 Dec 02 j 14:23 18°**♀**10'36 0°27'36 retrograde -7552 Mar 02 j 23:41 5°**£**14'06 minimum elong -7546 Dec 02 j 14:23 18°**₽**10'36 0°27'29 min. Earth dist. -7552 May 22 j 05:11 3°**♀**50'55 29.06976 AU max. Earth dist. -7546 Dec 03 j 15:55 18°**₽**13'00 31.00203 AU opposition -7552 May 23 j 02:54 3°**₽**49'26 1°07'13 morning rise -7546 Dec 18 j 07:48 18°**£**45'56 direct -7552 Aug 09 j 08:13 2°**£**26'53 retrograde -7545 Mar 19 j 18:35 20°**₽**44'28 evening set -7552 Nov 03 j 10:24 4°**£**19'05 opposition -7545 Jun 08 j 18:13 19°**₽**19'17 0°26'23 min. Earth dist. -7545 Jun 07 j 17:45 19°**≏**20'58 28.99816 AU conjunction -7552 Nov 18 j 20:20 4°**£**53'45 1°00'20 direct -7545 Aug 25 j 14:58 17°**£**56'34 minimum elong -7552 Nov 18 j 20:20 4°**£**53'45 1°00'21 evening set -7545 Nov 19 j 11:19 19°**△**48'30 max. Earth dist. -7552 Nov 19 j 18:32 4°**£**55'51 31.06481 AU morning rise -7552 Dec 04 j 09:52 5°**£**28'46 conjunction -7545 Dec 05 j 01:24 20°**≏**23'29 0°21'57 retrograde -7551 Mar 05 j 13:58 7°**≏**27'03 minimum elong -7545 Dec 05 j 01:25 20°**♀**23'29 0°21'50 opposition -7551 May 25 j 15:34 6°**₽**02'19 1°01'36 max. Earth dist. -7545 Dec 06 j 02:31 20°**£**25'51 30.99390 AU min. Earth dist. -7551 May 24 j 17:00 6°**2**03'52 29.06066 AU morning rise -7545 Dec 20 i 19:38 20°**£**58'53 -7551 Aug 11 j 18:24 4°**2**39'45 retrograde -7544 Mar 21 i 08:01 22°**£**57'29 direct evening set -7551 Nov 05 j 20:43 6°**£**31'54 min. Earth dist. -7544 Jun 09 i 05:38 21°**2**34'00 28.99060 AU -7544 Jun 10 j 06:32 21°**♀**32'16 0°20'19 opposition -7551 Nov 21 j 07:16 7°**2**06'37 0°55'03 -7544 Aug 27 j 00:37 20°**₽**09'33 conjunction direct -7551 Nov 21 j 07:16 -7544 Nov 20 j 22:05 22°**₽**01'30 7°**Ω**06'37 0°55'03 evening set minimum elong -7551 Nov 22 j 05:55 7°**2**08'45 31.05501 AU max. Earth dist. -7544 Dec 06 j 12:53 -7551 Dec 06 j 21:29 7°**£**41'42. conjunction 22°**≏**36'33 0°16'15 morning rise retrograde -7550 Mar 08 j 02:09 9°**₽**40'02 -7544 Dec 06 j 12:53 minimum elong 22°**£**36'33 0°16'07 -7544 Dec 07 j 15:16 -7550 May 27 j 06:32 8°**£**16'43 29.05022 AU max. Earth dist. 22°**♀**39'02 30.98676 AU min. Earth dist. -7544 Dec 22 j 07:38 -7550 May 28 j 04:19 8°**2**15'13 0°55'55 23°**£**11'59 opposition morning rise -7543 Mar 23 j 18:52 25°**≏**10'39 -7550 Aug 14 j 04:55 6°**£**52'37 direct retrograde -7550 Nov 08 j 06:57 -7543 Jun 12 j 18:39 23°**≏**45'26 evening set 8°**£**44'43 opposition 0°14'12 -7543 Jun 11 j 17:49 min. Earth dist. 23°**£**47'09 28.98384 AU -7550 Nov 23 j 18:09 9° 219'29 0°49'41 conjunction direct -7543 Aug 29 j 11:10 22°**£**22'44 minimum elong -7550 Nov 23 j 18:10 9°**£**19'29 0°49'40 evening set -7543 Nov 23 j 09:04 24°**£**14'42 max. Earth dist. -7550 Nov 24 j 17:16 9°**£**21'40 31.04423 AU morning rise -7550 Dec 09 j 08:59 9°**£**54'36 conjunction -7543 Dec 09 j 00:25 24°**2**49'47 0°10'33 retrograde -7549 Mar 10 j 16:14 11°**≙**52'58 minimum elong -7543 Dec 09 j 00:25 24°**₽**49'47 0°10'24 -7549 May 30 j 16:48 10° **2**8′04 0° 50′08 behind sun begin -7543 Dec 08 j 19:19 24°**₽**49'20 opposition -7549 May 29 j 17:45 10°**2**29'39 29.03900 AU behind sun end -7543 Dec 09 j 05:31 24°**♀**50'15 min. Earth dist. -7549 Aug 16 j 17:40 9°**≏**05'26 max. Earth dist. -7543 Dec 10 j 02:30 24°**£**52'15 30.98043 AU direct -7549 Nov 10 j 17:21 10°**♀**57'29 -7543 Dec 24 j 19:51 25°**2**25'16 evening set morning rise -7542 Mar 26 j 09:05 27°**£**24'01 retrograde conjunction -7549 Nov 26 i 05:02 11°**△**32'17 0°44'15 min. Earth dist. -7542 Jun 14 i 05:08 26°**2**00'34 28.97767 AU minimum elong -7549 Nov 26 i 05:03 11°**△**32'17 0°44'13 opposition -7542 Jun 15 i 06:48 25°**≏**58'48 0°08'04 max. Earth dist. -7549 Nov 27 j 04:03 11°**△**34'27 31.03287 AU direct -7542 Aug 31 i 20:31 24°**₽**36'06 morning rise -7549 Dec 11 i 20:39 12°**₽**07'28 evening set -7542 Nov 25 j 20:09 26°**£**28'06 -7548 Mar 12 i 05:50 14°**£**05'53 retrograde -7548 May 31 j 06:59 12°**△**42'25 29.02771 AU conjunction -7542 Dec 11 j 12:00 27°**♀**03'14 0°04'50 min. Earth dist. -7548 Jun 01 j 05:24 12°**£**40'53 0°44'17 -7542 Dec 11 i 12:00 27°**♀**03'14 0°04'38 opposition minimum elong 11°**♀**18'12 -7542 Dec 11 j 05:39 27°**£**02'40 direct -7548 Aug 18 j 04:47 behind sun begin evening set -7548 Nov 12 j 03:38 13°**♀**10'11 behind sun end -7542 Dec 11 j 18:21 27°**₽**03'49 max. Earth dist. -7542 Dec 12 j 14:34 27°**£**05'44 30.97421 AU conjunction -7548 Nov 27 j 16:05 13°**2**45'03 0°38'45 morning rise -7542 Dec 27 j 08:00 27°**£**38'46 minimum elong -7548 Nov 27 j 16:06 13°**≏**45'03 0°38'41 retrograde -7541 Mar 28 j 21:15 29°**£**37'35 -7548 Nov 28 j 16:25 -7541 Jun 17 j 19:02 28°**♀**12'21 0°01'55 max. Earth dist. 13°**△**47'21 31.02180 AU opposition -7541 Jun 16 j 18:16 morning rise -7548 Dec 13 j 08:14 14°**£**20′17 min. Earth dist. 28°**2**14'04 28.97143 AU -7541 Sep 03 j 06:14 retrograde -7547 Mar 14 j 17:57 16°**£**18'43 direct 26°**2**49'40 27°**≏**13'02 opposition -7547 Jun 03 j 17:43 14°**£**53'39 0°38'23 desc. node -7541 Oct 10 j 06:07 min. Earth dist. -7547 Jun 02 j 17:54 14°**£**55'17 29.01685 AU evening set -7541 Nov 28 j 07:25 28°**£**41'43 direct -7547 Aug 20 j 17:12 13°**△**30'56 evening set -7547 Nov 14 j 14:15 15°**£**22'54 conjunction -7541 Dec 13 j 23:55 29°**2**16'53 -0°01'02 minimum elong -7541 Dec 13 j 23:55 29°**£**16'53 0°01'14 -7547 Nov 30 j 03:07 15°**≏**57'48 behind sun begin -7541 Dec 13 j 17:26 29°**2**16'18 conjunction 0°33'12 -7547 Nov 30 j 03:08 15°**♀**57'48 behind sun end -7541 Dec 14 j 06:24 29°**♀**17'28 minimum elong

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7541 in astronomical counting style is the year 7542 BCE in historical counting style. -7541 Dec 15 i 02:41 29° **△**19'24 30.96788 AU max. Earth dist. -7535 Dec 28 i 03:41 12°M42'01 30.91537 AU max. Earth dist. -7541 Dec 29 j 20:27 29°**£**52'28 -7534 Jan 12 j 01:05 13°ML15'20 morning rise morning rise -7540 Jan 02 j 07:10 -7534 Mar 15 j 02:24 15°M₀ o°m. -7534 Apr 13 j 17:16 -7540 Mar 30 j 11:56 1°M51'19 retrograde 15°M14'11 retrograde -7540 Jun 18 j 05:31 0°M27'52 28.96478 AU -7534 May 13 j 18:13 min. Earth dist. 15°RM -7540 Jun 19 j 07:07 0° M26'05 -0° 04'14 -7534 Jul 02 j 06:45 opposition min. Earth dist. 13°M 50'17 28.91174 AU -7540 Jul 05 j 05:39 30°R Ω opposition -7534 Jul 03 j 06:44 13°M48'37 -0°40'44 29°**₽**03'23 direct -7540 Sep 04 j 18:40 direct -7534 Sep 18 j 15:42 12°M25'33 -7534 Dec 13 j 17:30 -7540 Nov 02 j 10:23 $0^{\circ}M$ evening set 14°M17'42 evening set -7540 Nov 29 j 18:58 0° M55'28 14° ML53'07 $-0^{\circ}40'48$ conjunction -7534 Dec 29 j 13:38 -7540 Dec 15 j 11:55 1°ML30'41 -0°06'49 -7534 Dec 29 j 13:38 14°ML53'07 0°41'08 conjunction minimum elong -7540 Dec 15 j 11:55 -7534 Dec 30 j 15:30 14°M55'33 30.90756 AU minimum elong 1°ML30'41 0°07'02 max. Earth dist. behind sun begin -7540 Dec 15 j 05:54 1°M30'08 -7533 Jan 01 j 14:47 15°M behind sun end -7540 Dec 15 j 17:56 1°M31'13 morning rise -7533 Jan 14 j 13:53 15°M28'56 max. Earth dist. -7540 Dec 16 j 13:58 1°ML33'08 30.96074 AU retrograde -7533 Apr 16 j 07:11 17°ML27'47 opposition morning rise -7540 Dec 31 j 09:09 2° ML06'18 -7533 Jul 05 j 18:23 16°M02'11 -0°46'40 retrograde -7539 Apr 02 j 01:39 4°M05'12 min. Earth dist. -7533 Jul 04 j 17:37 16°M 03'55 28.90466 AU opposition -7539 Jun 21 j 19:22 2° M $_{3}9'56$ $-0^{\circ}10'23$ -7533 Aug 16 j 12:23 15°RM min. Earth dist. -7539 Jun 20 j 19:01 2°M41'37 28.95719 AU direct -7533 Sep 21 j 01:43 14°MJ39'05 direct -7539 Sep 07 j 05:22 1°M17'12 -7533 Oct 25 j 22:19 15°M evening set -7539 Dec 02 i 06:34 3°M09'17 evening set -7533 Dec 16 i 05:35 16°MJ31'16 conjunction -7539 Dec 18 j 00:13 3°M44'33 -0°12'33 conjunction -7532 Jan 01 i 02:10 17° ML06'43 -0°46'19 -7539 Dec 18 i 00:13 3°M44'33 0°12'46 -7532 Jan 01 i 02:10 17°ML06'43 0°46'38 minimum elong minimum elong -7539 Dec 17 j 20:10 3°ML44'11 max. Earth dist. -7532 Jan 02 j 04:27 17°ML09'11 30.90104 AU behind sun begin -7539 Dec 18 j 04:16 3°M44'55 -7532 Jan 17 j 02:51 17°M42'34 behind sun end morning rise -7539 Dec 19 j 02:46 3°M47'03 30.95262 AU -7532 Apr 17 j 18:23 19°M41'26 max. Earth dist. retrograde -7538 Jan 02 j 21:50 -7532 Jul 06 j 06:06 4°M20'13 min. Earth dist. 18°M17'30 28.89893 AU morning rise -7538 Apr 04 j 14:50 6°M19'07 -7532 Jul 07 j 06:00 retrograde opposition 18°M-15'49 -0°52'31 4°M55'33 28.94850 AU -7538 Jun 23 j 06:16 direct -7532 Sep 22 j 11:34 16°M52'41 min. Earth dist. -7538 Jun 24 j 07:17 -7532 Dec 17 j 17:44 4° ML53'48 -0° 16'32 18°M44'57 opposition evening set -7538 Sep 09 j 17:55 3°M31'01 direct 5° ML23'08 -7538 Dec 04 j 18:19 -7531 Jan 02 j 14:53 19°M20'26 -0°51'45 evening set conjunction -7531 Jan 02 j 14:53 minimum elong 19°M20'26 0°52'06 -7538 Dec 20 j 12:21 5°M58'25 -0°18'16 -7531 Jan 03 j 17:21 conjunction max. Earth dist. 19°M22'55 30.89604 AU -7538 Dec 20 j 12:21 -7531 Jan 18 j 15:58 minimum elong 5°ML58'25 0°18'31 morning rise 19°**M**⋅56'18 max. Earth dist. -7538 Dec 21 j 13:43 6°ML00'48 30.94352 AU retrograde -7531 Apr 20 j 08:11 21°M55'10 morning rise -7537 Jan 05 j 10:41 6°M34'07 opposition -7531 Jul 09 j 17:32 20°M29'35 -0°58'18 retrograde -7537 Apr 07 j 05:03 8°M33'01 min. Earth dist. -7531 Jul 08 j 16:44 20°M31'19 28.89452 AU -7537 Jun 26 j 19:24 7°ML07'38 -0°22'39 direct -7531 Sep 24 j 23:21 19°M06'26 opposition -7537 Jun 25 j 19:15 7°ML09'19 28.93912 AU -7531 Dec 20 j 06:11 20°M58'47 min. Earth dist. evening set -7537 Sep 12 j 05:04 5°M44'47 direct -7537 Dec 07 j 05:51 7°M36'53 -7530 Jan 05 j 03:38 21°M34'18 -0°57'08 evening set conjunction -7530 Jan 05 j 03:37 21°M34'18 0°57'29 minimum elong -7537 Dec 23 i 00:35 conjunction 8°M12'13 -0°23'58 max. Earth dist. -7530 Jan 06 i 05:31 21°MJ36'43 30.89206 AU minimum elong -7537 Dec 23 i 00:35 8°M12'13 0°24'13 morning rise -7530 Jan 21 i 05:11 22°M10'12 max. Earth dist. -7537 Dec 24 i 03:03 8°M14'42 30.93391 AU retrograde -7530 Apr 22 j 21:06 24°ML09'05 morning rise -7536 Jan 07 j 23:18 8°**ጤ**47'57 min. Earth dist. -7530 Jul 11 j 05:28 22°M45'11 28.89111 AU -7536 Apr 08 j 17:34 10°ML46'50 -7530 Jul 12 i 05:04 22°M43'32 -1°04'00 retrograde opposition -7536 Jun 27 j 06:54 9°ML23'05 28.92941 AU direct -7530 Sep 27 j 09:12 21°M20'22 min. Earth dist. -7536 Jun 28 j 07:17 9°ML21'23 -0°28'43 evening set -7530 Dec 22 j 18:35 23°M12'49 opposition 7°**ጤ**58'28 direct -7536 Sep 13 j 18:00 evening set -7536 Dec 08 j 17:46 9°M50'33 conjunction -7529 Jan 07 j 16:37 23° ML $48'22 -1^{\circ}02'25$ minimum elong -7529 Jan 07 j 16:36 23°M48'22 1°02'48 conjunction -7536 Dec 24 j 12:53 10°M25'55 -0°29'37 max. Earth dist. -7529 Jan 08 j 19:05 23°M50'51 30.88900 AU 24°M24'18 minimum elong -7536 Dec 24 j 12:53 10°M25'55 0°29'55 morning rise -7529 Jan 23 j 18:24 -7536 Dec 25 j 14:18 10°M28'18 30.92435 AU -7529 Apr 25 j 11:03 26°M23'13 max. Earth dist. retrograde -7535 Jan 09 j 12:16 11°M01'41 -7529 Jul 14 j 16:31 24° ML57'42 -1° 09'37 morning rise opposition -7529 Jul 13 j 16:18 24°M.59'24 28.88826 AU retrograde -7535 Apr 11 j 06:29 13°M00'33 min. Earth dist. opposition -7535 Jun 30 j 19:00 11°M35'02 -0°34'45 direct -7529 Sep 29 j 21:15 23°M34'33 min. Earth dist. -7535 Jun 29 j 18:47 11°M36'43 28.92019 AU evening set -7529 Dec 25 j 07:19 25°M27'06 direct -7535 Sep 16 j 04:25 10°M12'02 evening set -7535 Dec 11 j 05:39 12°M04'09 conjunction -7528 Jan 10 j 05:36 26°ML02'41 -1°07'37 minimum elong -7528 Jan 10 j 05:35 26°ML02'41 1°08'00 -7535 Dec 27 j 01:21 12°MJ39'32 -0°35'14 -7528 Jan 11 j 06:43 26°M05'02 30.88619 AU conjunction max. Earth dist. -7535 Dec 27 j 01:21 12°MJ39'32 0°35'32 -7528 Jan 26 j 07:56 26°M38'39 minimum elong morning rise

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7528 in astronomical counting style is the year 7529 BCE in historical counting style. -7528 Apr 27 i 02:03 28°M37'35 evening set -7521 Jan 10 j 03:48 11°**₹**09'54 retrograde min. Earth dist. -7528 Jul 15 j 05:07 27°ML13'43 28.88547 AU -7528 Jul 16 j 04:08 27°M12'06 -1°15'07 conjunction -7521 Jan 26 j 04:38 11°×745'38 -1°40'46 opposition -7528 Oct 01 j 08:13 -7521 Jan 26 j 04:37 11°**∡**745'38 1°41'14 direct 25°M48'56 minimum elong -7521 Jan 27 j 01:50 -7528 Dec 26 j 20:14 27°M41'36 11°**∡**′47'37 30.85189 AU evening set max. Earth dist. 12°**∡**°21'41 -7521 Feb 11 j 08:52 morning rise -7521 May 13 j 18:51 14°**∡** 20′21 conjunction -7527 Jan 11 j 19:05 28°M17'14 -1°12'43 retrograde -7527 Jan 11 j 19:04 12°**₹**54'53 -1°50'04 minimum elong 28°M17'14 1°13'07 opposition -7521 Aug 01 j 11:27 max. Earth dist. -7521 Jul 31 j 16:46 12°**尽**56'12 28.85108 AU -7527 Jan 12 j 20:44 28°M19'38 30.88305 AU min. Earth dist. $28^{\circ}\text{ML}53'12$ -7521 Oct 17 j 14:38 11°**х** 31'14 morning rise -7527 Jan 27 j 21:34 direct -7520 Jan 12 j 17:07 -7527 Mar 02 j 15:01 0°×7 evening set 13°**х** 24′29 -7527 Apr 29 j 15:26 0°**х** 52′08 retrograde -7527 Jun 28 j 08:27 -7520 Jan 28 j 18:25 14°**∡**00'14 -1°44'57 30° RML conjunction -7520 Jan 28 j 18:25 opposition -7527 Jul 18 j 15:31 29°M26'43 -1°20'31 minimum elong 14°**₹**00'14 1°45'24 min. Earth dist. -7527 Jul 17 j 16:50 29°M28'18 28.88199 AU max. Earth dist. -7520 Jan 29 j 15:56 14°**₹**02'14 30.84818 AU direct -7527 Oct 03 j 21:04 28°M03'31 morning rise -7520 Feb 13 j 22:47 14°**∡** 36'17 evening set -7527 Dec 29 j 09:26 29°M56'17 retrograde -7520 May 15 j 07:52 16°**∡**³34'53 -7527 Dec 31 j 01:57 0°×7 opposition -7520 Aug 02 j 22:28 15°**₹**09'26 -1°54'27 min. Earth dist. -7520 Aug 02 j 03:15 15°**∡**10'47 28.84802 AU conjunction -7526 Jan 14 j 08:32 0° ₹31'56 -1°17'43 direct -7520 Oct 19 j 03:16 13°**х** 45'43 minimum elong -7526 Jan 14 j 08:31 0°**х** 31′56 1°18′07 evening set -7519 Jan 14 j 06:49 15°**₹**39'04 max. Earth dist. -7526 Jan 15 i 08:22 0° **₹**34'10 30.87914 AU morning rise -7526 Jan 30 j 11:29 1°**х** 07′56 conjunction -7519 Jan 30 i 08:15 16°**≯**14'50 -1°48'58 retrograde -7526 May 02 j 05:21 3°**х** 06′52 minimum elong -7519 Jan 30 i 08:15 16°**∡**14'50 1°49'27 min. Earth dist. -7526 Jul 20 j 05:08 1° ₹ 42'59 28.87769 AU max. Earth dist. -7519 Jan 31 i 04:19 16° **₹** 16'42 30.84571 AU opposition -7526 Jul 21 j 03:05 1°\$\square\$41'27 -1°25'47 -7519 Feb 15 i 12:57 16°**х** 50′54 morning rise -7526 Oct 06 j 07:49 0°**х** 18′12 -7519 May 17 j 21:35 18°**х** 49′26 direct retrograde -7526 Dec 31 j 22:26 2°**҂**11'04 -7519 Aug 05 j 09:30 17°**∡** 24′00 -1°58′40 evening set opposition -7519 Aug 04 j 15:22 17° ₹25'17 28.84635 AU min. Earth dist. -7519 Oct 21 j 14:26 -7525 Jan 16 j 22:00 2°**∡**146'44 -1°22'35 16°**₹**00'14 conjunction direct -7525 Jan 16 j 21:59 -7518 Jan 16 j 20:25 17°**х** 53′42 minimum elong 2° x 46'44 1°23'01 evening set -7525 Jan 17 j 22:04 max. Earth dist. 2°**∡**48'59 30.87421 AU -7525 Feb 02 j 01:07 -7518 Feb 01 j 22:18 18°**₹**29'29 -1°52'49 3°**х** 22′45 conjunction morning rise -7525 May 04 j 17:22 -7518 Feb 01 j 22:17 5°**х** 21′39 18°**₹**29'29 1°53'17 retrograde minimum elong -7525 Jul 23 j 14:36 max. Earth dist. -7518 Feb 02 j 19:01 18°**✗**31'25 30.84459 AU opposition 3°**₹**56'14 -1°30'56 -7525 Jul 22 j 17:35 -7518 Feb 18 j 02:59 19°**х** 05′33 min. Earth dist. 3°**≯**57'42 28.87236 AU morning rise 21°**₹**04'02 -7525 Oct 08 j 19:47 -7518 May 20 j 10:25 direct 2°**х** 32′56 retrograde evening set -7524 Jan 03 j 11:41 4°**х** 25′51 opposition -7518 Aug 07 j 20:31 19°**∡**38'40 -2°02'42 min. Earth dist. -7518 Aug 07 j 02:29 19° ₹39'56 28.84580 AU conjunction -7524 Jan 19 j 11:35 5°**∡**01'33 -1°27'20 direct -7518 Oct 24 j 03:22 18°**∡**14'52 minimum elong -7524 Jan 19 j 11:35 5°**∡**01'33 1°27'46 evening set -7517 Jan 19 j 10:05 20°**х** 08′27 max. Earth dist. -7524 Jan 20 j 10:15 5°**₹**'03'40 30.86861 AU morning rise -7524 Feb 04 j 15:06 5°**∡**³37'35 conjunction -7517 Feb 04 j 12:05 20°**∡**¹44'14 -1°56'30 -7524 May 06 j 07:50 7°**∡**³36′25 -7517 Feb 04 j 12:05 20°**∡**¹44'14 1°57'00 retrograde minimum elong -7524 Jul 24 j 04:52 6°**₹**12'28 28.86659 AU max. Earth dist. -7517 Feb 05 j 07:14 20°**х** 46′02 30.84455 AU min. Earth dist. -7524 Jul 25 i 01:52 opposition 6° ₹10'59 -1°35'57 morning rise -7517 Feb 20 i 17:06 21°×20'19 -7517 May 23 i 00:47 direct -7524 Oct 10 j 06:31 4°**х** 47′36 retrograde 23°×18'46 -7523 Jan 05 j 01:03 21°**x**⁷53'26 -2°06'32 evening set 6°**х** 40′36 opposition -7517 Aug 10 j 07:34 min. Earth dist. -7517 Aug 09 i 14:12 21° \$\square\$ 54'40 28.84624 AU -7523 Jan 21 j 01:18 7°**₹**16'19 -1°31'57 direct -7517 Oct 26 j 14:09 20°×29'37 conjunction -7523 Jan 21 i 01:18 7°**₹**16'18 1°32'25 evening set -7516 Jan 21 j 24:00 22°×23'19 minimum elong max. Earth dist. -7523 Jan 21 j 23:44 7°**∡**18'25 30.86260 AU -7523 Feb 06 j 05:04 7°**₹**52'22 conjunction -7516 Feb 07 j 02:22 22°\$\square\$759'08 -2°00'01 morning rise 9°**×**751'08 -7516 Feb 07 j 02:22 retrograde -7523 May 08 j 18:12 minimum elong 22°\$\square\$759'08 2°00'30 23°**✗**00'57 30.84509 AU opposition -7523 Jul 27 j 13:12 8°**₹**25'41 -1°40'49 max. Earth dist. -7516 Feb 07 j 21:47 -7516 Feb 23 j 07:23 min. Earth dist. -7523 Jul 26 j 17:38 8°**҂**27'04 28.86070 AU morning rise 23°×35'13 -7523 Oct 12 j 17:10 7°**х** 02′13 retrograde -7516 May 24 j 13:54 25°**х** 33'36 direct 24°**₹**08'21 -2°10'12 -7522 Jan 07 j 14:21 8°**х** 55′17 opposition -7516 Aug 11 j 18:31 evening set min. Earth dist. -7516 Aug 11 j 02:17 24° 🖍 09'30 28.84689 AU -7522 Jan 23 j 14:59 9°**∡**31'00 -1°36'26 -7516 Oct 28 j 02:38 22°×744'30 conjunction direct -7522 Jan 23 j 14:58 -7515 Jan 23 j 14:11 24°**₹**38'21 minimum elong 9°**х** 31′00 1°36′53 evening set max. Earth dist. -7522 Jan 24 j 12:59 9°**∡**33'04 30.85689 AU morning rise -7522 Feb 08 j 18:56 10°**х** 07′03 conjunction -7515 Feb 08 j 16:44 25°**х** 14′11 -2°03′20 retrograde -7522 May 11 j 06:51 12°**х** 05′46 minimum elong -7515 Feb 08 j 16:43 25° ₹14'11 2°03'51 min. Earth dist. -7522 Jul 29 j 04:12 10°**∡**′41'44 28.85537 AU max. Earth dist. -7515 Feb 09 j 10:20 25° ₹ 15'50 30.84569 AU -7522 Jul 30 j 00:15 10°**≯**40'19 -1°45'31 -7515 Feb 24 j 21:58 25°**х** 50′16 opposition morning rise

-7522 Oct 15 j 05:08

direct

9°**х¹**16'45

retrograde

-7515 May 27 j 04:24

27°**х**⁴48'36

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7515 in astronomical counting style is the year 7516 BCE in historical counting style. 26°**₹**'23'25 -2°13'39 -7515 Aug 14 i 05:29 direct -7509 Nov 13 j 12:45 8°る29'19 opposition -7515 Aug 13 j 13:33 26°**✗¹**24'33 28.84734 AU evening set -7508 Feb 09 j 18:24 10°る23'56 min. Earth dist. -7515 Oct 30 j 14:08 24°×759'31 direct -7514 Jan 26 j 04:23 26°**х** 53′30 -7508 Feb 25 j 22:23 10°る59'49 -2°21'07 conjunction evening set -7508 Feb 25 j 22:23 10°る59'49 2°21'37 minimum elong conjunction -7514 Feb 11 j 07:09 27°**∡**129'21 -2°06'29 -7508 Feb 26 j 08:44 max. Earth dist. 11°る00'47 30.83382 AU -7514 Feb 11 j 07:09 -7508 Mar 13 j 04:10 minimum elong 27°**х** 29'21 2°06'59 morning rise 11°る35'52 max. Earth dist. -7508 Jun 11 j 19:14 -7514 Feb 12 j 00:08 27°**✗**30'56 30.84557 AU retrograde 13°**る**33'30 morning rise -7514 Feb 27 j 12:23 28°**х** 05′26 opposition -7508 Aug 29 j 09:09 12°る08'30 -2°31'53 0°궁 -7514 May 14 j 17:53 min. Earth dist. -7508 Aug 28 j 23:44 12°る09'10 28.83553 AU retrograde -7514 May 29 j 15:39 0°**る**03'42 direct -7508 Nov 14 j 23:58 10°₹44'01 -7514 Jun 13 j 14:51 -7507 Feb 11 j 08:46 12°る38'45 30°₽**⋌**7 evening set opposition -7514 Aug 16 j 16:33 28°**∡** 38'34 -2°16'54 min. Earth dist. -7514 Aug 16 j 02:27 28°**✗**39'34 28.84686 AU conjunction -7507 Feb 27 j 13:04 13°る14'38 -2°22'50 direct -7514 Nov 02 j 01:09 27°**∡**14'38 minimum elong -7507 Feb 27 j 13:04 13°る14'38 2°23'20 evening set -7513 Jan 28 j 18:40 29°**х** 08'43 max. Earth dist. -7507 Feb 27 j 23:44 13°る15'38 30.83372 AU morning rise -7507 Mar 15 j 18:41 13°る50'41 conjunction -7513 Feb 13 j 21:42 29°**х** 44′34 -2°09′26 retrograde -7507 Jun 14 j 08:03 15°る48'12 minimum elong -7513 Feb 13 j 21:42 29°**х** 44'34 2°09'56 opposition -7507 Aug 31 j 19:48 14°る23'15 -2°33'35 max. Earth dist. -7513 Feb 14 j 13:26 29°**₹**46'03 30.84466 AU min. Earth dist. -7507 Aug 31 j 11:17 14°る23'51 28.83616 AU -7513 Feb 20 j 18:50 0°궁 direct -7507 Nov 17 j 13:19 12°る58'43 morning rise -7513 Mar 02 j 03:03 0°る20'40 evening set -7506 Feb 13 i 23:05 14°る53'33 retrograde -7513 Jun 01 i 05:05 2°る18'50 opposition -7513 Aug 19 i 03:26 0°る53'45 -2°19'57 conjunction -7506 Mar 02 i 03:26 15°る29'27 -2°24'19 min. Earth dist. -7513 Aug 18 j 13:26 0°る54'45 28.84548 AU minimum elong -7506 Mar 02 i 03:26 15°る29'27 2°24'48 -7513 Sep 22 j 08:11 30°R*x*7 max. Earth dist. -7506 Mar 02 j 12:28 15°る30'18 30.83514 AU direct -7513 Nov 04 j 13:11 29°×729'44 -7506 Mar 18 j 09:11 16°る05'30 morning rise -7513 Dec 16 j 23:49 0°궁 -7506 Jun 16 j 21:41 18°る02'54 retrograde -7512 Jan 31 j 09:02 1°る23'56 -7506 Sep 03 j 06:20 16°る38'01 -2°35'04 opposition evening set -7506 Sep 02 j 21:44 16°る38'38 28.83836 AU min. Earth dist. -7512 Feb 16 j 12:15 1°る59'48 -2°12'11 -7506 Nov 20 j 01:27 conjunction 15°る13'26 direct -7512 Feb 16 j 12:14 -7505 Feb 16 j 13:28 minimum elong 1°る59'48 2°12'41 17°る08'24 evening set -7512 Feb 17 j 02:32 2°る01'08 30.84272 AU max. Earth dist. -7505 Mar 04 j 18:02 17°る44'19 -2°25'35 -7512 Mar 03 j 17:44 2°る35'53 morning rise conjunction -7512 Jun 02 j 16:52 4°**る**33'58 -7505 Mar 04 j 18:02 17°る44'19 2°26'05 retrograde minimum elong 3°**る**08'53 -2°22'47 -7512 Aug 20 j 14:27 -7505 Mar 05 j 02:56 17°る45'09 30.83796 AU opposition max. Earth dist. -7512 Aug 20 j 02:28 3°る09'44 28.84322 AU -7505 Mar 20 j 23:42 min. Earth dist. morning rise 18°**る**20'22 direct -7512 Nov 05 j 23:07 1°**る**44'46 retrograde -7505 Jun 19 j 09:16 20°る17'40 evening set -7511 Feb 01 j 23:24 3°る39'05 opposition -7505 Sep 05 j 16:53 18°る52'52 -2°36'17 min. Earth dist. -7505 Sep 05 j 09:53 18°る53'22 28.84184 AU conjunction -7511 Feb 18 j 02:57 4°る14'57 -2°14'44 direct -7505 Nov 22 j 12:35 17°**る**28'16 -7511 Feb 18 j 02:57 4°る14'57 2°15'15 -7504 Feb 19 j 03:57 19°る23'22 minimum elong evening set max. Earth dist. -7511 Feb 18 j 16:42 4°る16'14 30.84018 AU -7511 Mar 06 j 08:25 4°る51'01 -7504 Mar 06 j 08:42 19°る59'17 -2°26'37 morning rise conjunction -7511 Jun 05 j 04:57 6°る48'59 -7504 Mar 06 j 08:42 19°る59'17 2°27'07 retrograde minimum elong 5°**ප**23'56 -2°25'23 -7504 Mar 06 i 16:26 20°る00'01 30.84203 AU opposition -7511 Aug 23 i 01:07 max. Earth dist. -7504 Mar 22 j 14:26 min. Earth dist. -7511 Aug 22 j 13:11 5°る24'47 28.84050 AU morning rise 20°る35'19 -7504 Jun 20 j 23:20 direct -7511 Nov 08 j 12:15 3°る59'43 retrograde 22°る32'31 evening set -7510 Feb 04 j 13:51 5°る54'08 opposition -7504 Sep 07 i 03:22 21°る07'50 -2°37'17 min. Earth dist. -7504 Sep 06 i 20:19 21°る08'20 28.84622 AU -7510 Feb 20 i 17:26 6° 830'00 -2°17'04 direct -7504 Nov 24 j 00:33 19°₹43'12 conjunction evening set -7510 Feb 20 i 17:26 6° 830'00 2°17'34 -7503 Feb 20 j 18:38 21°る38'26 minimum elong max. Earth dist. -7510 Feb 21 j 05:19 6°る31'07 30.83742 AU morning rise -7510 Mar 08 j 23:06 7°る06'04 conjunction -7503 Mar 08 j 23:27 22°る14'23 -2°27'26 retrograde -7510 Jun 07 j 17:27 9°る03'55 minimum elong -7503 Mar 08 j 23:27 22°る14'23 2°27'56 opposition -7510 Aug 25 j 11:56 7°る38'53 -2°27'47 max. Earth dist. -7503 Mar 09 j 06:05 22°る15'00 30.84651 AU -7503 Mar 25 j 05:10 min. Earth dist. -7510 Aug 25 j 01:25 7°る39'38 28.83803 AU morning rise 22°る50'24 -7503 Jun 23 j 10:54 -7510 Nov 10 j 23:33 6°**ට**14'34 24°る47'31 direct retrograde -7509 Feb 07 j 03:57 8°る09'04 -7503 Sep 09 j 13:58 23°る22'55 -2°38'02 evening set opposition 23°る23'16 28.85084 AU -7503 Sep 09 j 08:55 min. Earth dist. -7509 Feb 23 j 07:55 8°る44'57 -2°19'12 21°**る**58'16 conjunction direct -7503 Nov 26 j 09:58 minimum elong -7509 Feb 23 j 07:54 8°る44'57 2°19'43 evening set -7502 Feb 23 j 09:15 23°**る**53'37 max. Earth dist. -7509 Feb 23 j 20:07 8°る46'06 30.83517 AU morning rise -7509 Mar 11 j 13:28 9°**ප**21'01 conjunction -7502 Mar 11 j 14:18 24°**ප්**29'34 -2°28'01 retrograde -7509 Jun 10 j 05:30 11°**る**18'45 minimum elong -7502 Mar 11 j 14:18 24°**る**29'34 2°28'30 -7509 Aug 27 j 22:36 9°る53'44 -2°29'57 max. Earth dist. -7502 Mar 11 j 20:10 24°る30'06 30.85106 AU opposition min. Earth dist. -7509 Aug 27 j 12:26 9°る54'27 28.83616 AU -7502 Mar 27 j 19:55 25°る05'35 morning rise

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7502 in astronomical counting style is the year 7503 BCE in historical counting style. -7502 Jun 25 j 22:28 27°る02'34 evening set -7495 Mar 11 j 15:28 9°≈37'45 retrograde -7502 Sep 12 j 00:31 25°₹38'04 -2°38'32 opposition -7502 Sep 11 j 19:39 25°る38'25 28.85512 AU -7495 Mar 27 j 21:15 min. Earth dist. 10° \$\approx 13'42 -2° 25' 53 conjunction 24°る13'23 minimum elong -7495 Mar 27 j 21:16 -7502 Nov 28 j 23:08 10°≈13'42 2°26'18 direct -7501 Feb 25 j 23:55 -7495 Mar 27 j 18:40 evening set 26°る08'51 max. Earth dist. 10°≈13'28 30.87041 AU -7495 Apr 13 j 02:35 10°**≈**49'37 morning rise 26°පි44'48 -2°28'23 -7501 Mar 14 j 04:58 -7495 Jul 11 j 11:51 12°≈45'30 conjunction retrograde -7501 Mar 14 j 04:59 minimum elong 26°る44'48 2°28'52 opposition -7495 Sep 27 j 01:42 11°≈21'17 -2°35'24 -7501 Mar 14 j 08:44 max. Earth dist. 26°る45'09 30.85496 AU min. Earth dist. -7495 Sep 27 j 03:26 11°≈21'10 28.87462 AU morning rise -7501 Mar 30 j 10:41 27°る20'48 direct -7495 Dec 14 j 14:34 9°≈56'03 retrograde -7501 Jun 28 j 10:18 29°る17'41 evening set -7494 Mar 14 j 05:54 11°≈52'02 -7501 Sep 14 j 11:13 27°る53'14 -2°38'48 opposition min. Earth dist. -7501 Sep 14 j 08:07 27°る53'28 28.85868 AU conjunction -7494 Mar 30 j 11:44 12°≈27'59 -2°24'41 direct -7501 Dec 01 j 09:50 26°る28'29 minimum elong -7494 Mar 30 j 11:45 12°**≈**27'59 2°25'06 evening set -7500 Feb 28 j 14:36 28°る24'03 max. Earth dist. -7494 Mar 30 j 08:29 12°≈27'41 30.87533 AU morning rise -7494 Apr 15 j 16:57 13°≈03'54 conjunction -7500 Mar 15 j 19:58 29°る00'00 -2°28'32 retrograde -7494 Jul 13 j 22:43 14°≈59'38 minimum elong -7500 Mar 15 j 19:58 29°る00'00 2°28'59 opposition -7494 Sep 29 j 12:08 13°≈35'29 -2°34'00 max. Earth dist. -7500 Mar 15 j 23:19 29°る00'19 30.85806 AU min. Earth dist. -7494 Sep 29 j 15:26 13°≈35'15 28.88036 AU morning rise -7500 Apr 01 j 01:30 29°る36'00 direct -7494 Dec 17 j 00:53 12°≈10'13 -7500 Apr 12 j 08:37 evening set -7493 Mar 16 j 20:06 14°≈06'17 retrograde -7500 Jun 29 i 21:54 1°≈32'43 opposition -7500 Sep 15 j 21:41 0°≈08'20 -2°38'50 conjunction -7493 Apr 02 i 02:07 14°≈42'14 -2°23'16 min. Earth dist. -7500 Sep 15 i 19:26 0°≈08'30 28.86127 AU minimum elong -7493 Apr 02 i 02:08 14°≈42'14 2°23'40 -7500 Sep 20 j 18:39 30°Rる max. Earth dist. -7493 Apr 01 i 22:26 14°≈41'54 30.88191 AU direct -7500 Dec 02 j 22:39 28°る43'30 -7493 Apr 10 i 01:21 15°≈ -7499 Feb 11 j 08:50 -7493 Apr 18 j 07:15 0°≈≈ morning rise 15°≈18'08 -7499 Mar 02 j 05:27 0°≈39'09 -7493 Jul 16 j 10:05 17°≈13'44 evening set retrograde -7493 Oct 01 j 22:25 opposition 15°≈49'42 -2°32'22 15°≈49'29 28.88750 AU -7499 Mar 18 j 10:45 1°≈15'06 -2°28'27 -7493 Oct 02 j 01:32 conjunction min. Earth dist. -7499 Mar 18 j 10:46 -7493 Nov 01 j 22:55 1°≈15'06 2°28'55 15°R≈ minimum elong -7499 Mar 18 j 11:43 -7493 Dec 19 j 13:55 max. Earth dist. 1°≈15′11 30.86036 AU direct 14°≈24'24 -7499 Apr 03 j 16:25 1°≈51'05 -7492 Feb 04 j 10:22 morning rise 15°≈ -7499 Jul 02 j 10:36 -7492 Mar 18 j 10:37 retrograde 3°≈47'39 evening set 16°≈20'35 -7499 Sep 18 j 08:17 opposition 2°≈23'17 -2°38'37 16°≈56'32 -2°21'38 -7499 Sep 18 j 07:07 -7492 Apr 03 j 16:35 min. Earth dist. 2°≈23'22 28.86335 AU conjunction -7499 Dec 05 j 10:32 -7492 Apr 03 j 16:35 direct 0°≈58'21 minimum elong 16°≈56'32 2°22'01 evening set -7498 Mar 04 j 19:53 2°≈54'05 max. Earth dist. -7492 Apr 03 j 11:21 16°≈56'03 30.88971 AU morning rise -7492 Apr 19 j 21:41 17°≈32'26 conjunction -7498 Mar 21 j 01:27 3°≈30'01 -2°28'08 retrograde -7492 Jul 17 j 21:35 19°≈27'54 -7498 Mar 21 j 01:27 3°≈30'01 2°28'35 opposition -7492 Oct 03 j 08:45 18°≈03'59 -2°30'30 minimum elong -7498 Mar 21 j 02:26 3°≈30'07 30.86223 AU min. Earth dist. -7492 Oct 03 j 13:14 18°≈03'39 28.89586 AU max. Earth dist. -7498 Apr 06 j 06:53 4°≈05'59 -7492 Dec 20 j 23:51 16°≈38'41 morning rise direct -7498 Jul 04 j 22:03 6°≈02'23 -7491 Mar 21 j 01:01 18°≈34'58 retrograde evening set -7498 Sep 20 j 18:46 4°≈38'03 -2°38'10 opposition -7491 Apr 06 i 07:09 19°≈10'56 -2°19'47 min. Earth dist. -7498 Sep 20 j 18:53 4°≈38'03 28.86515 AU conjunction direct -7498 Dec 08 i 00:32 3°≈13'02 minimum elong -7491 Apr 06 i 07:10 19°≈10'56 2°20'10 -7491 Apr 06 i 01:54 evening set -7497 Mar 07 i 10:29 5°≈08'49 max. Earth dist. 19°≈10'27 30.89852 AU morning rise -7491 Apr 22 j 12:02 19°**≈**46'49 -7497 Mar 23 i 16:02 5°≈44'46 -2°27'36 retrograde -7491 Jul 20 i 08:48 21°≈42'11 conjunction -7497 Mar 23 i 16:03 5°≈44'46 2°28'04 opposition -7491 Oct 05 i 19:10 20°≈18'23 -2°28'24 minimum elong -7497 Mar 23 j 14:57 5°≈44'40 30.86425 AU min. Earth dist. -7491 Oct 06 j 00:16 20°≈18'01 28.90475 AU max. Earth dist. -7497 Apr 08 j 21:35 6°≈20'42 direct -7491 Dec 23 j 11:49 18°≈53'06 morning rise -7497 Jul 07 j 11:01 retrograde 8°≈16'56 evening set -7490 Mar 23 j 15:25 20°≈49'29 opposition -7497 Sep 23 j 05:00 6°≈52'37 -2°37'29 min. Earth dist. -7497 Sep 23 j 05:22 6°≈52'36 28.86741 AU conjunction -7490 Apr 08 j 21:25 21°≈25'27 -2°17'43 -7497 Dec 10 j 13:21 5°≈27'31 minimum elong -7490 Apr 08 j 21:25 21°≈25'27 2°18'04 direct -7496 Mar 09 j 01:00 -7490 Apr 08 j 14:05 21°≈24'46 30.90754 AU evening set 7°≈23'22 max. Earth dist. -7490 Apr 25 j 02:18 morning rise 22°≈01'20 -7496 Mar 25 j 06:45 7°≈59'19 -2°26'51 -7490 Jul 22 j 20:58 conjunction retrograde 23°≈56'35 minimum elong -7496 Mar 25 j 06:46 7°≈59'19 2°27'17 opposition -7490 Oct 08 j 05:36 22°≈32'54 -2°26'05 max. Earth dist. -7496 Mar 25 j 05:26 7°≈59'11 30.86679 AU min. Earth dist. -7490 Oct 08 j 11:42 22°≈32'28 28.91371 AU morning rise -7496 Apr 10 j 12:07 8°≈35'15 direct -7490 Dec 25 j 23:12 21°≈07'37 retrograde -7496 Jul 08 j 22:26 10°≈31'18 evening set -7489 Mar 26 j 05:49 23°≈04'07 opposition -7496 Sep 24 j 15:28 9°≈07'02 -2°36'34 min. Earth dist. -7496 Sep 24 j 17:27 9°≈06'53 28.87040 AU -7489 Apr 11 j 12:01 23°≈40'05 -2°15'27 conjunction

-7489 Apr 11 j 12:02

minimum elong

23°≈40'05 2°15'47

-7496 Dec 12 j 01:36

7°≈41'50

direct

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7489 in astronomical counting style is the year 7490 BCE in historical counting style. -7489 Apr 11 i 04:37 23°≈39'23 30.91622 AU min. Earth dist. -7483 Oct 23 i 19:46 8°¥11'57 28.95813 AU max. Earth dist. -7489 Apr 27 j 16:37 24°≈15'56 -7482 Jan 10 j 16:27 6°**¥**47'18 morning rise direct -7489 Jul 25 j 08:07 -7482 Apr 11 j 09:09 8° **)** 44'03 26°≈11'04 evening set retrograde -7489 Oct 10 j 16:03 24°≈47'29 -2°23'32 opposition -7489 Oct 10 j 23:41 9°\;\;\19'59 -1°54'08 min. Earth dist. 24°≈46'56 28.92193 AU conjunction -7482 Apr 27 j 15:09 -7482 Apr 27 j 15:10 9°\;\;\\19'59\ 1°54'21 direct -7489 Dec 28 j 12:47 23°≈22'12 minimum elong -7482 Apr 27 j 00:26 evening set -7488 Mar 27 j 20:27 25°≈18'46 max. Earth dist. 9°**光**18'37 30.96026 AU -7482 May 13 j 18:35 morning rise 9°****55'43 conjunction -7488 Apr 13 j 02:30 25°≈54'44 -2°12'58 retrograde -7482 Aug 09 j 16:12 11°**)**49'42 minimum elong -7488 Apr 13 j 02:31 25°≈54'44 2°13'18 opposition -7482 Oct 25 j 17:10 10°**升**26'29 -2°00'03 max. Earth dist. -7488 Apr 12 j 16:40 25°≈53'49 30.92408 AU min. Earth dist. -7482 Oct 26 j 06:27 10°**¥**25'32 28.96526 AU -7488 Apr 29 j 07:08 -7481 Jan 13 j 05:02 morning rise 26°≈30'35 direct 9°**₩**00'52 -7488 Jul 26 j 21:05 -7481 Apr 13 j 23:04 retrograde 28°**≈**25'35 evening set 10°**¥**57'39 opposition -7488 Oct 12 j 02:32 27°≈02'04 -2°20'47 min. Earth dist. -7488 Oct 12 j 10:34 27°≈01'30 28.92925 AU conjunction -7481 Apr 30 j 04:49 11°**₭**33'33 -1°50'22 direct -7488 Dec 30 j 01:26 25°≈36'45 minimum elong -7481 Apr 30 j 04:50 11°\(\dagger)33'33 1°50'35 evening set -7487 Mar 30 j 10:49 27°≈33'24 max. Earth dist. -7481 Apr 29 j 12:28 11°**)** 32′02 30.96810 AU morning rise -7481 May 16 j 08:09 12°**)**€09'16 conjunction -7487 Apr 15 j 16:59 28°≈09'22 -2°10'17 retrograde -7481 Aug 12 j 02:46 14°**)**€03'06 minimum elong -7487 Apr 15 j 17:00 28°≈09'22 2°10'36 opposition -7481 Oct 28 j 03:27 12°**)** 39'57 -1°55'57 max. Earth dist. -7487 Apr 15 j 06:42 28°≈08'24 30.93084 AU min. Earth dist. -7481 Oct 28 j 17:14 12°**)** 38′58 28.97372 AU morning rise -7487 May 01 j 21:16 28°≈45'11 direct -7480 Jan 15 i 16:18 11°**)** 14'18 -7487 Jun 10 j 01:00 0°**)**€ evening set -7480 Apr 15 j 12:48 13°¥11'08 retrograde -7487 Jul 29 i 08:31 0°**)**(40'02 -7487 Sep 17 j 17:08 30°R≈ conjunction -7480 May 01 j 18:37 13°\(\)\(47'02\)\(-1°46'27\) -7487 Oct 14 j 13:07 29°≈16'35 -2°17'49 -7480 May 01 j 18:38 13°**¥**47'03 1°46'39 opposition minimum elong -7487 Oct 14 j 23:05 29°≈15'53 28.93551 AU -7480 May 01 j 02:48 13°**)** 45'34 30.97719 AU min. Earth dist. max Earth dist -7486 Jan 01 j 14:21 -7480 May 17 j 21:33 14° ¥ 22'43 direct 27°≈51'14 morning rise -7486 Apr 02 j 01:10 -7480 Aug 13 j 12:30 29°≈47'55 retrograde 16°**)** 16′26 evening set -7486 Apr 07 j 13:47 0°**)**€ -7480 Oct 29 j 13:59 14° **\(**53'22 -1°51'40 opposition -7480 Oct 30 j 04:44 14° **€**52'19 28.98321 AU min. Earth dist. -7479 Jan 17 j 04:48 -7486 Apr 18 j 07:15 0°**)** 23′52 -2°07′25 conjunction 13°**)** 27'44 direct -7486 Apr 18 j 07:16 -7479 Apr 18 j 02:34 0° **★**23'52 2°07'44 15°**)** 24'36 minimum elong evening set -7486 Apr 17 j 19:12 0°**¥**22'45 30.93689 AU max. Earth dist. -7486 May 04 j 11:31 0°**)**59'40 -7479 May 04 j 08:04 16°**)** €00'30 -1°42'21 morning rise conjunction -7486 Jul 31 j 21:53 2° ¥ 54'21 -7479 May 04 j 08:05 16°**)** €00'30 1°42'32 retrograde minimum elong -7486 Oct 16 j 23:27 1°**)** 30′57 -2°14′39 -7479 May 03 j 14:35 15°**¥**58'52 30.98726 AU opposition max. Earth dist. -7479 May 20 j 10:54 min. Earth dist. -7486 Oct 17 j 09:29 1°**升**30′14 28.94116 AU morning rise 16°**¥**36′10 direct -7485 Jan 04 j 04:26 0°**)**€05'33 retrograde -7479 Aug 16 j 00:48 18°**¥**29'46 -7485 Apr 04 j 15:19 2°\ 02'15 opposition -7479 Nov 01 j 00:24 17°**¥**06'47 -1°47'13 evening set min. Earth dist. -7479 Nov 01 j 15:02 17°**₭**05'45 28.99354 AU -7485 Apr 20 j 21:26 2°**)** 38'13 -2°04'22 -7478 Jan 19 j 16:26 15°**)**(41'10 conjunction direct -7485 Apr 20 j 21:27 2°\mathbf{38'13} 2°04'39 -7478 Apr 20 j 16:13 17°**¥**38′05 minimum elong evening set -7485 Apr 20 j 08:34 2°**)** 37'01 30.94234 AU max. Earth dist. -7485 May 07 j 01:29 3°**)** 14′00 -7478 May 06 j 21:42 18°**¥**13'58 -1°38'07 morning rise conjunction -7485 Aug 03 j 08:17 -7478 May 06 j 21:43 retrograde 5° **\(**08'30 minimum elong 18°**¥**13'58 1°38'17 -7485 Oct 19 i 09:57 opposition 3°\(\)45'08 -2°11'17 max. Earth dist. -7478 May 06 i 04:22 18°**)** 12'22 30.99776 AU min. Earth dist. -7485 Oct 19 j 21:53 3°**)** 44'17 28.94650 AU morning rise -7478 May 23 j 00:06 18°**)**(49'37 direct -7484 Jan 06 i 16:15 2° **)** 19'40 retrograde -7478 Aug 18 j 11:28 20°\ 43'07 -7484 Apr 06 j 05:27 4°¥16'24 opposition -7478 Nov 03 i 10:56 19° **★**20'14 -1°42'36 evening set min. Earth dist. -7478 Nov 04 j 03:16 19°**¥**19'05 29.00401 AU -7484 Apr 22 j 11:33 4° ¥ 52'21 -2°01'08 -7477 Jan 22 j 05:11 17° **X** 54'39 conjunction direct -7484 Apr 22 j 11:34 4°\ 52'21 2°01'23 -7477 Apr 23 j 05:56 19°**)** 51'37 minimum elong evening set max. Earth dist. -7484 Apr 21 j 21:56 4°**₭**51'05 30.94779 AU morning rise -7484 May 08 j 15:26 5° ****28'07 conjunction -7477 May 09 j 11:09 20°\(\)27'29 -1°33'44 retrograde -7484 Aug 04 j 19:23 7°**)**€22'26 minimum elong -7477 May 09 j 11:10 20°\(\frac{1}{27'29}\) 1°33'52 -7484 Oct 20 j 20:15 5°**¥**59'07 -2°07'44 -7477 May 08 j 16:15 opposition max. Earth dist. 20°**)** €25'44 31.00817 AU -7484 Oct 21 j 08:08 5°**¥**58'16 28.95194 AU -7477 May 25 j 13:26 21°**₩**03'07 min. Earth dist. morning rise -7483 Jan 08 j 05:56 4°**)**€33'35 -7477 Aug 21 j 00:19 22°\ 56'30 direct retrograde -7477 Nov 05 j 21:27 21°\(\dagger)33'42 -1°37'50 evening set -7483 Apr 08 j 19:31 6°₩30'20 opposition -7483 Apr 24 j 10:32 21°**₭**32'33 29.01397 AU max. Earth dist. 7°**₭**04'53 30.95354 AU min. Earth dist. -7477 Nov 06 j 13:43 direct -7476 Jan 24 j 19:12 20°**₩**08'08 conjunction -7483 Apr 25 j 01:28 7° **★**06'16 -1°57'43 evening set -7476 Apr 24 j 19:40 22°\(\mathbf{H}\) 05'09 minimum elong -7483 Apr 25 j 01:29 7°**₭**06'16 1°57'57 max. Earth dist. -7476 May 10 j 05:10 22°**₭**39'11 31.01766 AU morning rise -7483 May 11 j 05:11 7°**)** 42'01 -7483 Aug 07 j 06:38 9°₩36'10 -7476 May 11 j 00:43 22°\(\frac{1}{41}\)'00 -1°29'12 retrograde conjunction -7483 Oct 23 j 06:44 8°¥12'53 -2°03'59 -7476 May 11 j 00:44 22°**)** 41'00 1°29'19 opposition minimum elong

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7476 in astronomical counting style is the year 7477 BCE in historical counting style. -7476 May 27 i 02:33 23°**)** 16'36 direct -7469 Feb 09 i 08:28 5°Y39'23 morning rise -7476 Aug 22 j 10:55 25°¥09'53 evening set -7469 May 11 j 16:16 7°**Y**36′23 retrograde opposition -7476 Nov 07 j 08:11 23°\(\frac{1}{47}'10\) -1°32'55 -7476 Nov 08 j 02:19 23°**)**(45'53 29.02297 AU -7469 May 27 j 19:27 8°Y12'06 -0°54'23 min. Earth dist. conjunction -7475 Jan 26 j 07:14 -7469 May 27 j 19:27 8°Y12'06 0°54'21 direct 22°**)** 21'36 minimum elong -7475 Apr 27 j 09:19 -7469 May 26 j 19:56 8°**Y**09'55 31.06580 AU evening set 24°**)** 18'38 max. Earth dist. -7469 Jun 12 j 18:41 8°Y47'31 morning rise -7475 May 13 j 14:09 10°**Y**39'58 24°\\$54'29 -1°24'33 -7469 Sep 07 j 10:39 conjunction retrograde -7475 May 13 j 14:10 9° **Y**17'30 $-0^{\circ}55'20$ -7469 Nov 23 j 10:46 minimum elong 24°**X**54'29 1°24'39 opposition max. Earth dist. -7475 May 12 j 17:43 24°**₭**52'35 31.02621 AU min. Earth dist. -7469 Nov 24 j 08:44 9°**Υ**15'58 29.07048 AU morning rise -7475 May 29 j 15:42 25°**₩**30'03 direct -7468 Feb 11 j 21:33 7°**Υ**51'48 9°**Υ**48'48 -7475 Aug 24 j 22:26 -7468 May 13 j 05:05 retrograde 27°**)** 23'13 evening set 10°Y22'13 31.07442 AU opposition -7475 Nov 09 j 18:52 26°**₭**00'33 -1°27'53 max. Earth dist. -7468 May 28 j 07:21 min. Earth dist. -7475 Nov 10 j 13:00 25°¥59'16 29.03082 AU direct -7474 Jan 28 j 21:09 24°**)** 34'59 conjunction -7468 May 29 j 07:44 10°Y24'29 -0°49'02 evening set -7474 Apr 29 j 22:45 26°\ 32'01 minimum elong -7468 May 29 j 07:45 10°**Y**24'29 0°49'01 max. Earth dist. -7474 May 15 j 05:31 27°**₭**05'50 31.03357 AU morning rise -7468 Jun 14 j 06:40 10°**Y**59′52 retrograde -7468 Sep 08 j 22:28 12°**Y**52'14 conjunction -7474 May 16 j 03:18 27°\(\frac{1}{27}\)07'51 -1°19'46 opposition -7468 Nov 24 j 21:24 11°Y29'50 -0°49'35 minimum elong -7474 May 16 j 03:19 27°\(\overline{4}\) 07'51 1°19'51 min. Earth dist. -7468 Nov 25 j 18:32 11°Υ28'21 29.07962 AU morning rise -7474 Jun 01 j 04:33 27° **) (**43'24 direct -7467 Feb 13 j 11:05 10°**Y**04′09 retrograde -7474 Aug 27 j 09:44 29°\ 36'26 evening set -7467 May 15 j 17:45 12°Y01'11 opposition -7474 Nov 12 i 05:34 28° **)** 13'49 -1°22'43 min. Earth dist. -7474 Nov 13 i 01:03 28° ¥ 12'27 29.03773 AU conjunction -7467 May 31 i 20:05 12°Υ36'50 -0°43'38 -7473 Jan 31 i 08:26 26°**)**(48'14 -7467 May 31 i 20:05 12° Y 36'50 0° 43'34 direct minimum elong evening set -7473 May 02 j 12:07 28°\ 45'16 max. Earth dist. -7467 May 30 j 19:57 12°**Y**34'36 31.08416 AU -7467 Jun 16 j 18:27 13°**Y**12'11 morning rise -7473 May 18 j 16:32 29°\(\frac{1}{21'05}\) -1°14'53 -7467 Sep 11 j 08:50 15°**Y**′04'30 conjunction retrograde -7473 May 18 j 16:33 -7467 Nov 27 j 08:16 13°Y42'09 -0°43'46 29°\(\frac{1}{21}'05\) 1°14'57 opposition minimum elong -7473 May 17 j 18:39 29°**升**19'03 31.04012 AU min. Earth dist. -7467 Nov 28 j 06:33 13°**Y**40'36 29.08987 AU max. Earth dist. -7473 Jun 03 j 17:23 -7466 Feb 15 j 22:31 12°Y16'32 29°**)** 56'36 direct morning rise -7466 May 18 j 06:13 -7473 Jun 05 j 07:00 $0^{\circ}\Upsilon$ 14°**Y**13'34 evening set 1°\partial 49'30 -7466 Jun 02 j 07:55 14°**Υ**46'57 31.09485 AU -7473 Aug 29 j 18:55 max. Earth dist. retrograde 0° **Y**26'56 $-1^{\circ}17'26$ -7473 Nov 14 j 16:07 opposition 14°**Y**'49'12 -0°38'09 -7473 Nov 15 j 12:08 0°**Υ**25'31 29.04378 AU -7466 Jun 03 j 08:09 min. Earth dist. conjunction -7473 Nov 30 j 22:09 -7466 Jun 03 j 08:09 14°**Υ**49'12 0°38'05 30°**₹**₩ minimum elong -7472 Feb 02 j 21:44 29°**米**01'18 -7466 Jun 19 j 06:08 15°**Y**24'30 direct morning rise -7472 Apr 04 j 19:58 $0^{\circ}\Upsilon$ retrograde -7466 Sep 13 j 20:22 17°**Y**16'46 evening set -7472 May 04 j 01:32 0°Y58'20 opposition -7466 Nov 29 j 19:01 15°**Y**54'31 -0°37'53 max. Earth dist. -7472 May 19 j 05:58 1°**Υ**31'56 31.04606 AU min. Earth dist. -7466 Nov 30 j 16:50 15°**Y**53'00 29.10058 AU direct -7465 Feb 18 j 12:32 14°**Y**28'57 -7472 May 20 j 05:32 1° Y 34'07 -1° 09'54 -7465 May 20 j 18:53 16°Y26'00 conjunction evening set -7472 May 20 j 05:32 1°**Y**34'08 1°09'57 minimum elong -7472 Jun 05 j 06:06 2°Y09'37 -7465 Jun 05 j 20:19 17°**Y**01'36 -0°32'38 morning rise conjunction -7472 Aug 31 j 05:03 4°Υ02'24 -7465 Jun 05 j 20:20 17°**Υ**01'36 0°32'31 retrograde minimum elong -7472 Nov 16 i 02:47 2°Y39'50 -1°12'03 -7465 Jun 04 i 19:19 16°**Υ**59'17 31.10558 AU opposition max. Earth dist. 2°**Υ**38'24 29.04967 AU -7465 Jun 21 i 17:49 17°**Y**36′53 min. Earth dist. -7472 Nov 16 j 23:17 morning rise -7465 Sep 16 j 08:11 19°**Y**29′06 direct -7471 Feb 04 i 09:08 1°Υ14'11 retrograde 18°**Y**06'55 -0°31'57 evening set -7471 May 06 j 14:28 3°Υ11'12 opposition -7465 Dec 02 i 05:51 min. Earth dist. -7465 Dec 03 i 04:37 18°Υ05'20 29.11125 AU -7471 May 22 i 18:19 3°Y46'58 -1°04'49 direct -7464 Feb 21 j 00:25 16°**Y**41'24 conjunction evening set -7471 May 22 i 18:20 3°Y46'58 1°04'50 -7464 May 22 j 07:28 18°Y38'27 minimum elong max. Earth dist. -7471 May 21 j 19:29 3°**Y**44'51 31.05199 AU max. Earth dist. -7464 Jun 06 j 07:47 19°**Y**11'44 31.11597 AU -7471 Jun 07 j 18:21 4°**Υ**22'26 morning rise retrograde -7471 Sep 02 j 13:48 6°Y15'05 conjunction -7464 Jun 07 j 08:31 19°**Y**14'02 -0°27'03 opposition -7471 Nov 18 j 13:31 4°Υ52'33 -1°06'34 minimum elong -7464 Jun 07 j 08:31 19°**Υ**14'02 0°26'57 4°**Υ**51'04 29.05569 AU -7471 Nov 19 j 10:53 19°**Y**49′16 min. Earth dist. morning rise -7464 Jun 23 j 05:26 21°**Υ**41'26 -7470 Feb 06 j 21:21 3°Y26'53 -7464 Sep 17 j 17:18 direct retrograde 5°**Y**23'52 -7464 Dec 03 j 16:56 20°**Υ**19'19 -0°25'58 evening set -7470 May 09 j 03:30 opposition -7470 May 24 j 06:39 5°**Υ**57'22 31.05843 AU -7464 Dec 04 j 16:00 20°Υ17'43 29.12113 AU max. Earth dist. min. Earth dist. 18°**Y**53′50 direct -7463 Feb 22 j 14:00 20°Y50'53 conjunction -7470 May 25 j 06:51 5°**Y**59'37 -0°59'38 evening set -7463 May 24 j 19:59 minimum elong -7470 May 25 j 06:51 5°**Υ**59'37 0°59'39 morning rise -7470 Jun 10 j 06:40 6°**Y**35′03 conjunction -7463 Jun 09 j 20:23 21°**Υ**26'26 -0°21'27 retrograde -7470 Sep 05 j 01:02 8°**Y**27'36 minimum elong -7463 Jun 09 j 20:23 21°**Υ**26'26 0°21'18 -7470 Nov 20 j 23:59 7°Y05'06 -1°00'59 max. Earth dist. -7463 Jun 08 j 18:15 21°**Y**24'00 31.12539 AU opposition min. Earth dist. -7470 Nov 21 j 20:52 7°**Υ**'03'38 29.06257 AU -7463 Jun 25 j 16:53 22°Y01'38 morning rise

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7463 in astronomical counting style is the year 7464 BCE in historical counting style. -7463 Sep 20 i 03:41 23°**Y**53'44 opposition -7458 Dec 17 i 11:36 3°**8**30'58 0°10'18 retrograde opposition -7463 Dec 06 i 04:01 22°Y31'40 -0°19'57 min. Earth dist. -7458 Dec 18 j 12:46 3°**8**29'14 29.16274 AU min. Earth dist. -7463 Dec 07 j 03:22 22°Υ30'03 29.13011 AU -7457 Mar 08 j 14:04 2°805'29 direct -7462 Feb 25 j 01:19 21°Y06'12 -7457 Jun 07 j 20:40 4°802'18 direct evening set -7462 May 27 j 08:22 23°Y03'14 evening set -7457 Jun 23 j 17:52 23°**Υ**36'22 31.13377 AU 4°**8**37'35 0°12'33 max. Earth dist. -7462 Jun 11 j 06:57 conjunction -7457 Jun 23 j 17:52 4°**8**37'35 minimum elong 0°12'48 -7462 Jun 12 j 08:26 23° Y 38'45 -0° 15' 48 -7457 Jun 23 j 13:49 4°837'13 conjunction behind sun begin -7462 Jun 12 j 08:26 minimum elong 23°**Y**38'45 0°15'40 behind sun end -7457 Jun 23 j 21:54 4°**8**37'56 behind sun begin -7462 Jun 12 j 07:11 23°**Y**38'38 max. Earth dist. -7457 Jun 22 j 15:28 4°835'07 31.16573 AU behind sun end -7462 Jun 12 j 09:41 23°Y38'51 morning rise -7457 Jul 09 j 10:57 5°**8**12'31 -7457 Oct 03 j 15:29 7°**8**04'18 morning rise -7462 Jun 28 j 04:15 24°**Y**13'54 retrograde 5°**8**42'16 retrograde -7462 Sep 22 j 12:24 26°**Y**05'57 opposition -7457 Dec 19 j 22:42 0°16'19 opposition -7462 Dec 08 j 15:03 24°Y43'54 -0°13'54 min. Earth dist. -7457 Dec 20 j 22:54 5°**8**40'36 29.16962 AU min. Earth dist. -7462 Dec 09 j 15:26 24°**Y**42'13 29.13786 AU direct -7456 Mar 10 j 04:26 4°816'48 direct -7461 Feb 27 j 13:29 23°Y18'27 evening set -7456 Jun 09 j 08:26 6°813'35 evening set -7461 May 29 j 20:50 25°**Y**15′27 max. Earth dist. -7456 Jun 24 j 02:27 6°846'22 31.17312 AU conjunction -7461 Jun 14 j 20:13 25°Y'50'54 -0°10'10 conjunction -7456 Jun 25 j 04:58 6°848'50 0°18'10 minimum elong -7461 Jun 14 j 20:14 25°Y'50'54 0°10'00 minimum elong -7456 Jun 25 j 04:57 6°**8**48'50 0°18'24 behind sun begin -7461 Jun 14 j 14:59 25°Y50'26 morning rise -7456 Jul 10 j 21:26 7°**8**23'44 behind sun end -7461 Jun 15 i 01:29 25°**Y**51′23 retrograde -7456 Oct 05 i 02:59 9°815'30 max. Earth dist. -7461 Jun 13 i 17:15 25°Υ48'24 31.14104 AU opposition -7456 Dec 21 j 10:02 7°**8**53'29 0°22'19 morning rise -7461 Jun 30 j 15:40 26°Y26'02 min. Earth dist. -7456 Dec 22 j 10:21 7°**と**51'49 29.17771 AU retrograde -7461 Sep 24 j 23:14 28°Y18'00 -7455 Mar 12 j 16:24 6°828'04 direct opposition -7461 Dec 11 j 02:06 26°Y55'59 -0°07'51 evening set -7455 Jun 11 j 19:51 8°824'51 -7461 Dec 12 j 02:02 26°Υ54'19 29.14465 AU min. Earth dist. -7460 Mar 01 j 01:09 25°Y30'31 -7455 Jun 27 j 15:51 9°800'03 0°23'45 direct conjunction -7460 May 31 j 08:58 27°**Y**27'28 -7455 Jun 27 j 15:51 9°800'03 0°24'02 evening set minimum elong 8°**8**57'41 31.18176 AU -7460 Jun 15 j 05:39 28°Υ00'26 31.14736 AU -7455 Jun 26 j 14:26 max. Earth dist. max. Earth dist. morning rise -7455 Jul 13 j 07:39 9°**8**34'54 28°Y'02'53 -0°04'31 -7455 Oct 07 j 11:58 -7460 Jun 16 j 07:58 11°**8**26'41 conjunction retrograde -7455 Dec 23 j 21:22 -7460 Jun 16 j 07:58 28°**Y**'02'53 10°804'44 0°28'17 0°04'21 minimum elong opposition 28° Y 02' 19 -7460 Jun 16 j 01:34 -7455 Dec 24 j 21:16 10°**8**03'05 29.18676 AU behind sun begin min. Earth dist. -7460 Jun 16 j 14:22 28°**Y**03′28 -7454 Mar 15 j 05:44 8°**8**39'23 behind sun end direct -7460 Jul 02 j 02:40 28°**Y**37′58 -7454 Jun 14 j 07:28 10°**8**36'09 morning rise evening set -7460 Aug 15 j 09:34 -7454 Jun 29 j 00:36 11°**8**08'52 31.19125 AU 0° 8 max. Earth dist. retrograde -7460 Sep 26 j 07:52 0°829'53 -7460 Nov 08 j 13:42 30°**₹**Υ conjunction -7454 Jun 30 j 02:42 11°**8**11'18 0°29'19 opposition -7460 Dec 12 j 13:20 29°**Y**'07'51 -0°01'48 minimum elong -7454 Jun 30 j 02:41 11°811'18 0°29'35 min. Earth dist. -7460 Dec 13 j 14:28 29°Υ06'07 29.15068 AU morning rise -7454 Jul 15 j 18:01 11°**8**46'08 -7459 Mar 03 j 13:45 27° **Y** 42'23 -7454 Oct 09 j 22:36 13°**8**37'55 direct retrograde -7459 Mar 30 j 20:28 27° Y 54'15 -7454 Dec 26 j 08:32 12°**8**16'02 0°34'12 asc. node opposition -7459 Jun 02 j 21:06 29° Y 39'17 -7454 Dec 27 j 08:07 12°**8**14'25 29.19662 AU evening set min. Earth dist. -7459 Jun 12 j 06:17 0° 8 -7453 Mar 17 j 16:46 10°**8**50'46 direct evening set -7453 Jun 16 i 18:54 12°**8**47'33 -7459 Jun 18 j 19:24 0°814'39 0°01'16 conjunction -7459 Jun 18 j 19:24 -7453 Jul 02 j 13:38 13°**8**22'41 0°34'50 minimum elong 0°814'39 0°01'29 conjunction 0°814'05 behind sun begin -7459 Jun 18 j 12:54 minimum elong -7453 Jul 02 i 13:38 13°**8**22'40 0°35'08 behind sun end -7459 Jun 19 i 01:54 0°815'14 max. Earth dist. -7453 Jul 01 i 12:50 13°**8**20'22 31.20116 AU max. Earth dist. -7459 Jun 17 i 16:17 0°812'08 31.15331 AU morning rise -7453 Jul 18 j 04:11 13°**8**57'27 -7459 Jul 04 j 13:42 0°**8**49'42 -7453 Aug 18 j 17:31 15°8 morning rise -7459 Sep 28 j 18:50 2°841'33 -7453 Oct 12 j 07:43 15°**8**49'17 retrograde retrograde opposition -7459 Dec 15 j 00:23 1°819'31 0°04'16 -7453 Dec 08 j 12:58 15°R₩ min. Earth dist. -7459 Dec 16 j 00:37 1°**8**17'50 29.15656 AU opposition -7453 Dec 28 j 20:04 14°**8**27'28 0°40'05 -7458 Feb 14 j 16:18 30°R℃ min. Earth dist. -7453 Dec 29 j 20:13 14°**8**25'49 29.20644 AU 29°Y54'01 direct -7458 Mar 06 j 02:33 direct -7452 Mar 19 j 04:47 13°**8**02'18 -7458 Mar 25 j 09:51 0°8 -7452 Jun 18 j 06:24 14°**8**59'05 evening set -7458 Jun 05 j 08:52 1°**8**50'52 -7452 Jun 18 j 16:32 15°8 evening set -7458 Jun 20 j 04:01 2°**8**23'43 31.15921 AU -7452 Jul 02 j 22:37 15°**8**31'45 31.21079 AU max. Earth dist. max. Earth dist. conjunction -7458 Jun 21 j 06:42 2°**8**26'12 0°06'56 conjunction -7452 Jul 04 j 00:17 15°**8**34'09 0°40'18 minimum elong minimum elong -7458 Jun 21 j 06:41 2°**8**26'12 0°07'09 -7452 Jul 04 j 00:17 15°**8**34'09 0°40'37 2°**8**25'40 behind sun begin -7458 Jun 21 j 00:42 morning rise -7452 Jul 19 j 14:21 16°**8**08'54 behind sun end -7458 Jun 21 j 12:41 2°**8**26'44 retrograde -7452 Oct 13 j 18:46 18°**8**00'46 -7458 Jul 07 j 00:20 3°801'12 -7452 Dec 30 j 07:38 16°839'01 0°45'54 morning rise opposition -7458 Oct 01 j 04:42 4°853'01 min. Earth dist. -7452 Dec 31 j 06:53 16°**8**37'25 29.21580 AU retrograde

	omena of Neptune f						page 36
	ical year style is used: Th	-	astronomicai cou				1017127
direct	-7451 Mar 21 j 16:03	15° 8 13'55		conjunction	-7445 Jul 20 j 01:27	0°П53'53	1°16'27
evening set	-7451 Jun 20 j 17:45	17° 8 10'41	1.01055 1.77	minimum elong	-7445 Jul 20 j 01:26	0°П53'53	1°16'53
max. Earth dist.	-7451 Jul 05 j 10:21	17° 8 43'24 3	1.2195 / AU	morning rise	-7445 Aug 04 j 11:06	1° Ⅱ 28'18	
	7451 7 1 06:11 07	170 45142	0045140	retrograde	-7445 Oct 29 j 19:29	3° ∏ 20′22	102412
conjunction	-7451 Jul 06 j 11:07	·	0°45'42	opposition	-7444 Jan 15 j 18:09	1° Ⅱ 58'32	
minimum elong	-7451 Jul 06 j 11:06	_	0°46'03	min. Earth dist.	-7444 Jan 16 j 16:42	1°Щ5/′00 0°Щ33′35	29.25041 AU
morning rise	-7451 Jul 22 j 00:23	18° 8 20'25		direct	-7444 Apr 06 j 07:07		
retrograde	-7451 Oct 16 j 03:39	20°812'21	0051120	evening set	-7444 Jul 05 j 22:52	2° ∏ 30′00	
opposition	-7450 Jan 01 j 19:21	_	0°51'39	. ,.	7444 1 1 21:11 24	201104140	1021114
min. Earth dist.	-7450 Jan 02 j 19:38	18° 8 48'58 29	9.22412 AU	conjunction	-7444 Jul 21 j 11:24	3°П04'40 3°П04'40	
direct	-7450 Mar 24 j 03:36	_		minimum elong	-7444 Jul 21 j 11:23 -7444 Jul 20 j 12:38		31.25132 AU
evening set	-7450 Jun 23 j 05:07	19° 8 22'20		max. Earth dist.	-	3° П 02′32 3° П 39′03	31.23132 AU
agniumation	7450 [] 00 : 21.41	100857120 0	0051102	morning rise	-7444 Aug 05 j 20:15	5° Д 31'09	
conjunction	-7450 Jul 08 j 21:41	_	0°51'03 0°51'24	retrograde	-7444 Oct 31 j 04:28	3° Д 31'09 4° Д 09'17	1920115
minimum elong max. Earth dist.	-7450 Jul 08 j 21:41	.T.		opposition	-7443 Jan 17 j 06:13 -7443 Jan 18 j 04:40		
	-7450 Jul 07 j 20:14	19° 8 54'56 3 20° 8 31'59	1.22724 AU	min. Earth dist.	3	2° П 44'23	29.25423 AU
morning rise	-7450 Jul 24 j 10:29 -7450 Oct 18 j 14:41	20° 6 31'39 22° 6 23'57		direct	-7443 Apr 08 j 20:24 -7443 Jul 08 j 09:31	2°Щ44 23 4°Щ40'43	
retrograde	,	•	0°57'19	evening set	-/443 Jul 08 J 09:31	4°Щ40′43	
opposition min. Earth dist.	-7449 Jan 04 j 07:01 -7449 Jan 05 j 06:21	21° 8 02'13 0		aaniumatian	-7443 Jul 23 j 21:11	5° ∏ 15'20	1°25'53
direct	-7449 Mar 26 j 15:16	19° 8 37'15	9.23100 AU	conjunction minimum elong	-7443 Jul 23 j 21:11	5°П15'20	
	-7449 Jun 25 j 16:26	21° 8 33'58		max. Earth dist.	-7443 Jul 22 j 22:11		31.25561 AU
evening set max. Earth dist.	-7449 Jul 23 j 16.26	21 3 35 38 22° 8 06'33 3	1 22224 ATT		,	5° П 49'40	31.23301 AU
max. Earm dist.	-/449 Jul 10 J 0/.09	22 000 33 3	1.23334 AU	morning rise retrograde	-7443 Aug 08 j 05:36 -7443 Nov 02 j 14:54	7° П 41'50	
conjunction	-7449 Jul 11 j 08:22	22° 8 08'54 0	0°56'19	opposition	-7442 Jan 19 j 18:01	6° П 19'57	1924'00
minimum elong	-7449 Jul 11 j 08:22		0°56'41	min. Earth dist.	-7442 Jan 20 j 14:52		29.25909 AU
_	-7449 Jul 11 j 08:21 -7449 Jul 26 j 20:24	22° 8 43'32	J-3041		,	6°Щ18'32 4°Щ55'06	29.23909 AU
morning rise	3	24° 8 35'31		direct evening set	-7442 Apr 11 j 07:53 -7442 Jul 10 j 19:53	4 Д3306 6°Д51'24	
retrograde opposition	-7449 Oct 21 j 00:57 -7448 Jan 06 j 18:50		1°02'54	max. Earth dist.	-7442 Jul 10 j 19.33		31.26076 AU
min. Earth dist.	-7448 Jan 07 j 19:12	23° 8 12'09 29		max. Earm dist.	-7442 Jul 23 J 09.34	1 щ23 31	31.20070 AU
direct	-7448 Mar 28 j 02:23	21° 8 48'51	9.23038 AU	conjunction	-7442 Jul 26 j 07:03	7° Ⅱ 25'58	1°30'24
evening set	-7448 Jun 27 j 03:40	23° 8 45'31		minimum elong	-7442 Jul 26 j 07:02	7° П 25'58	1°30'50
evening set	-/446 Juli 2/ J 05.40	23 043 31		morning rise	-7442 Jul 20 j 07:02 -7442 Aug 10 j 14:44	7 П 23 38 8° П 00'16	1 30 30
conjunction	-7448 Jul 12 j 18:54	24° 8 20'24 1	1°01'30	retrograde	-7442 Nov 04 j 23:26	9° П 52'30	
minimum elong	-7448 Jul 12 j 18:54	.T.	1°01'50	opposition	-7442 Nov 04 j 23.20 -7441 Jan 22 j 06:06	9 П32 30 8°П30'38	1°38'55
max. Earth dist.	-7448 Jul 11 j 17:55	24° 8 18'04 3		min. Earth dist.	-7441 Jan 23 j 03:18		29.26460 AU
morning rise	-7448 Jul 28 j 06:20	24° 8 54'59	1.23621 AU	direct	-7441 Apr 13 j 19:11	7° П 05'51	29.20400 AU
retrograde	-7448 Oct 22 j 12:05	26° 8 46'59		evening set	-7441 Jul 13 j 06:21	9° П 02'07	
opposition	-7447 Jan 08 j 06:41		1°08'24	evening set	-/441 Jul 13 J 00.21	9 Д0207	
min. Earth dist.	-7447 Jan 09 j 06:11	25° 8 23'40 29		conjunction	-7441 Jul 28 j 16:42	9° ∏ 36'38	1°34'48
direct	-7447 Mar 30 j 16:58	24° 8 00'19	7.24001 710	minimum elong	-7441 Jul 28 j 16:41	9° П 36'38	1°35'16
evening set	-7447 Jun 29 j 14:38	25° 8 56'55		max. Earth dist.	-7441 Jul 27 j 19:20		31.26649 AU
max. Earth dist.	-7447 Jul 14 j 03:56	26° 8 29'23 3	1 24189 AII	morning rise	-7441 Aug 12 j 23:54	10° Ⅲ 10'54	31.20047710
max. Earth dist.	7117 Jul 11 1 05.50	20 02723 3	1.21107110	retrograde	-7441 Nov 07 j 10:12	12° Ⅲ 03'13	
conjunction	-7447 Jul 15 j 05:09	26° 8 31'45 1	1°06'35	opposition	-7440 Jan 24 j 18:07	10° ∏ 41'23	1°43'33
minimum elong	-7447 Jul 15 j 05:08		1°06'59	min. Earth dist.	-7440 Jan 25 j 13:44		29.27040 AU
morning rise	-7447 Jul 30 j 16:00	27° 8 06'17	. 000)	direct	-7440 Apr 15 j 06:20	9° Ⅱ 16'40	29.270.0110
retrograde	-7447 Oct 24 j 23:50	28° 8 58'19		evening set	-7440 Jul 14 j 16:44	11° Ⅱ 12'54	
opposition	-7446 Jan 10 j 18:33		1°13'47	max. Earth dist.	-7440 Jul 29 j 05:53		31.27215 AU
min. Earth dist.	-7446 Jan 11 j 18:17	27° 8 34'56 29			,		
direct	-7446 Apr 02 j 05:05	26° 8 11'36		conjunction	-7440 Jul 30 j 02:28	11° ∏ 47′23	1°39'04
evening set	-7446 Jul 02 j 01:30	28° 8 08'09		minimum elong	-7440 Jul 30 j 02:27	11° Ⅱ 47′23	1°39'31
Ü	, and the second			morning rise	-7440 Aug 14 j 09:01	12° Ⅱ 21'37	
conjunction	-7446 Jul 17 j 15:25	28° 8 42'55 1	1°11'35	retrograde	-7440 Nov 08 j 20:51	14° Ⅱ 14'03	
minimum elong	-7446 Jul 17 j 15:25		1°11'58	opposition	-7439 Jan 26 j 06:27	12° Ⅱ 52'13	1°48'02
max. Earth dist.	-7446 Jul 16 j 15:19	28° 8 40'39 3		min. Earth dist.	-7439 Jan 27 j 02:33		29.27603 AU
morning rise	-7446 Aug 02 j 01:35	29° 8 17'23		direct	-7439 Apr 17 j 16:48	11° Ⅱ 27'35	
-	-7446 Aug 22 j 13:24	Π°		evening set	-7439 Jul 17 j 02:59	13° Ⅲ 23'47	
retrograde	-7446 Oct 27 j 08:31	1° Ⅱ 09′26		-	Ÿ		
=	-7445 Jan 05 j 16:21	30° ₹ 8		conjunction	-7439 Aug 01 j 12:04	13° Ⅱ 58'13	1°43'11
opposition	-7445 Jan 13 j 06:16	29° 8 47'38 1	1°19'03	minimum elong	-7439 Aug 01 j 12:03	13° Ⅱ 58'13	1°43'39
min. Earth dist.	-7445 Jan 14 j 05:35	29° 8 46'03 29	9.24717 AU	max. Earth dist.	-7439 Jul 31 j 16:17		31.27740 AU
direct	-7445 Apr 04 j 18:40	28° 8 22'41		morning rise	-7439 Aug 16 j 18:05	14° ∏ 32′25	
	-7445 Jun 25 j 14:24	0°Щ		retrograde	-7439 Nov 11 j 08:00	16° Ⅱ 24'57	
evening set	-7445 Jul 04 j 12:22	0° Ⅱ 19'10		opposition	-7438 Jan 28 j 18:41	15° Ⅱ 03′08	1°52'21
max. Earth dist.	-7445 Jul 19 j 00:51	0° П 51'34 3	1.24791 AU	min. Earth dist.	-7438 Jan 29 j 13:40	15° Ⅱ 01'51	29.28078 AU
				direct	-7438 Apr 20 j 05:55	13° ∏ 38′35	

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7438 in astronomical counting style is the year 7439 BCE in historical counting style. -7438 Jul 19 j 13:24 15°**Ⅲ**34'45 retrograde -7432 Nov 26 i 08:57 1°5541'09 evening set opposition -7431 Feb 13 j 09:50 0°519'02 2°17'46 -7438 Aug 03 j 21:45 16°**Ⅲ**09'09 1°47'09 min. Earth dist. -7431 Feb 14 j 00:26 0°518'03 29.28293 AU conjunction -7438 Aug 03 j 21:44 16°**耳**09'09 1°47'36 -7431 Feb 25 j 06:10 30°R∏ minimum elong -7438 Aug 03 j 01:45 16°**Д**07'16 31.28148 AU direct -7431 May 05 j 19:07 28°**I**54'43 max. Earth dist. 16°**Ⅱ**43'18 -7438 Aug 19 j 03:15 -7431 Jul 09 j 22:52 morning rise 0ಂತಾ 18°**Ⅱ**35'56 -7438 Nov 13 j 20:13 retrograde evening set -7431 Aug 03 j 10:56 0°950'23 -7437 Jan 31 j 06:56 17°**Ⅲ**14'07 opposition 1°56'31 min. Earth dist. -7437 Feb 01 j 02:01 17°**Ⅱ**12'49 29.28440 AU conjunction -7431 Aug 18 j 15:16 1°9524'30 2°10'19 direct -7437 Apr 22 j 16:47 15°**Ⅱ**49'38 minimum elong -7431 Aug 18 j 15:16 1°524'29 2°10'50 1°523'05 31.28106 AU evening set -7437 Jul 21 j 23:42 17°**Ⅱ**45'46 max. Earth dist. -7431 Aug 18 j 00:19 -7431 Sep 02 j 17:31 morning rise 1°958'26 -7437 Aug 06 j 07:31 18°**Ⅲ**20'07 1°50'58 -7431 Nov 28 j 19:17 conjunction retrograde 3°951'43 minimum elong -7437 Aug 06 j 07:30 18°**Ⅲ**20′07 1°51'27 opposition -7430 Feb 15 j 22:27 2°9529'32 2°20'38 max. Earth dist. -7437 Aug 05 j 12:42 18°**Д**18'20 31.28430 AU min. Earth dist. -7430 Feb 16 j 12:57 2°528'34 29.28287 AU morning rise -7437 Aug 21 j 12:22 18°**Ⅲ**54'14 direct -7430 May 08 j 05:35 1°905'16 retrograde -7437 Nov 16 j 05:55 20°**Ⅱ**46'58 evening set -7430 Aug 05 j 20:30 3°900'52 opposition -7436 Feb 02 j 19:25 19°**Ⅲ**25′08 2°00'30 max. Earth dist. -7430 Aug 20 j 10:51 3°533'40 31.28147 AU min. Earth dist. -7436 Feb 03 j 14:02 19°**Д**23'52 29.28645 AU direct -7436 Apr 24 j 06:02 18°**Ⅱ**00'42 conjunction -7430 Aug 21 j 00:22 3°534'56 2°12'55 evening set -7436 Jul 23 j 09:54 19°**Ⅲ**56'47 minimum elong -7430 Aug 21 j 00:22 3°934'56 2°13'24 morning rise -7430 Sep 05 i 02:11 4°9508'51 conjunction -7436 Aug 07 j 16:57 20°**Ⅲ**31'05 1°54'37 retrograde -7430 Dec 01 i 06:03 6°9502'15 minimum elong -7436 Aug 07 j 16:56 20°**Ⅲ**31′05 1°55'05 opposition -7429 Feb 18 i 10:51 4°540'03 2°23'19 max. Earth dist. -7436 Aug 06 j 21:32 20°**I**I29'15 31.28561 AU min. Earth dist. -7429 Feb 18 i 23:33 4°539'12 29.28369 AU -7436 Aug 22 j 21:26 21°**II**05'10 -7429 May 10 j 17:37 3°915'51 morning rise direct -7436 Nov 17 j 17:50 22°II57'59 -7429 Aug 08 j 06:04 5°9011'24 retrograde evening set opposition -7435 Feb 04 j 07:54 21°II36'07 2°04'20 -7435 Feb 05 j 01:49 21°**Д**34'54 29.28720 AU -7429 Aug 23 j 09:22 5°545'26 2°15'19 min. Earth dist. conjunction -7435 Apr 26 j 18:25 20°**Ⅱ**11'43 -7429 Aug 23 j 09:21 direct minimum elong 5°9545'26 2°15'50 -7435 Jul 25 j 19:56 22°**Ⅲ**07'44 -7429 Aug 22 j 20:12 evening set max. Earth dist. 5°544'12 31.28268 AU -7435 Aug 09 j 08:44 22°**Ц**40'19 31.28559 AU -7429 Sep 07 j 10:56 max. Earth dist. 6°9519'20 morning rise -7429 Dec 03 j 18:31 8°9512'52 retrograde -7428 Feb 20 j 23:34 -7435 Aug 10 j 02:34 22°**Ⅱ**41'59 6°950'39 2°25'47 conjunction 1°58'06 opposition -7435 Aug 10 j 02:33 -7428 Feb 21 j 11:39 6°9549'50 29.28534 AU minimum elong 22°**Ⅱ**41'59 1°58'36 min. Earth dist. -7435 Aug 25 j 06:25 23°**Ⅱ**16′02 morning rise direct -7428 May 12 j 02:56 5°926'31 -7435 Nov 20 j 03:32 25°**耳**08'57 retrograde evening set -7428 Aug 09 j 15:21 7°9522'01 opposition -7434 Feb 06 j 20:21 23°**I**47′01 2°07′58 min. Earth dist. -7434 Feb 07 j 14:25 23°**Ц**45'48 29.28664 AU conjunction -7428 Aug 24 j 18:21 7°556'02 2°17'31 direct -7434 Apr 29 j 07:51 22°II22'39 minimum elong -7428 Aug 24 j 18:21 7°556'02 2°18'01 -7434 Jul 28 j 05:57 24°**Ⅱ**18'35 max. Earth dist. -7428 Aug 24 j 07:07 7°554'58 31.28447 AU evening set -7428 Sep 08 j 19:29 8°929'54 morning rise -7434 Aug 12 j 11:52 24°II52'48 2°01'26 -7428 Dec 05 j 04:46 10°523'35 conjunction retrograde -7434 Aug 12 j 11:52 24°II52'48 2°01'55 -7427 Feb 22 j 12:20 9°901'21 2°28'02 minimum elong opposition -7434 Aug 11 j 17:43 24°**Д**51'05 31.28460 AU min. Earth dist. -7427 Feb 22 j 23:24 9°500'36 29.28713 AU max. Earth dist. -7434 Aug 27 j 15:27 25°**Ⅱ**26'49 morning rise direct -7427 May 14 j 15:39 7°537'19 -7434 Nov 22 j 14:06 27°**Ⅱ**19'48 retrograde evening set -7427 Aug 12 j 00:55 9°532'46 -7433 Feb 09 i 08:44 25°**I**57'49 2°11'25 opposition 25°**П**56'42 29.28537 AU -7427 Aug 27 j 03:19 min. Earth dist. -7433 Feb 10 i 01:17 conjunction 10°506'44 2°19'32 direct -7433 May 01 j 19:48 24°**Ⅲ**33'27 minimum elong -7427 Aug 27 i 03:19 10°906'44 2°20'03 -7433 Jul 30 j 15:40 26°**Ⅲ**29'18 max. Earth dist. -7427 Aug 26 j 15:56 10°505'40 31.28620 AU evening set -7427 Sep 11 j 04:20 10°9540'36 morning rise -7433 Aug 14 j 21:07 27°II03'29 2°04'34 -7427 Dec 07 j 17:55 12°934'25 conjunction retrograde minimum elong -7433 Aug 14 j 21:07 27°II03'29 2°05'05 opposition -7426 Feb 25 j 00:56 11°5512'10 2°30'05 max. Earth dist. -7433 Aug 14 j 04:30 27°**П**01'55 31.28301 AU min. Earth dist. -7426 Feb 25 j 11:01 11°5511'30 29.28878 AU -7433 Aug 30 j 00:06 morning rise 27°**Ⅲ**37′28 direct -7426 May 17 j 03:09 9°9548'12 retrograde -7433 Nov 24 j 22:28 29°**Ⅲ**30'32 evening set -7426 Aug 14 j 10:19 11°5643'36 -7432 Feb 11 j 21:22 28° II 08'29 2°14'41 opposition -7432 Feb 12 j 14:02 28°**Д**07'21 29.28388 AU -7426 Aug 29 j 12:30 min. Earth dist. conjunction 12°517'34 2°21'21 26°**Ⅱ**44'08 -7426 Aug 29 j 12:30 direct -7432 May 03 j 07:48 minimum elong 12°**©**17'34 2°21'51 -7432 Aug 01 j 01:25 28°**Ⅲ**39'53 evening set max. Earth dist. -7426 Aug 29 j 02:53 12°516'39 31.28737 AU morning rise -7426 Sep 13 j 13:05 12°951'25 conjunction -7432 Aug 16 j 06:15 29°**Ⅲ**14'02 2°07'32 retrograde -7426 Dec 10 j 04:37 14°9545'21 minimum elong -7432 Aug 16 j 06:14 29°**Ⅱ**14'02 2°08'02 opposition -7425 Feb 27 j 13:52 13°523'05 2°31'55 max. Earth dist. -7432 Aug 15 j 14:11 29°**Ⅲ**12'31 31.28172 AU min. Earth dist. -7425 Feb 27 j 23:53 13°522'25 29.28949 AU -7432 Aug 31 j 08:54 29°**Ⅱ**47'59 -7425 May 19 j 15:57 11°959'12 morning rise direct -7432 Sep 05 j 20:59 0ಂತಾ -7425 Aug 16 j 19:48 13°954'32 evening set

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7425 in astronomical counting style is the year 7426 BCE in historical counting style. opposition -7425 Aug 31 j 21:27 14°528'28 2°22'58 -7418 Mar 15 j 08:30 28°538'52 2°38'34 conjunction -7425 Aug 31 j 21:27 min. Earth dist. -7418 Mar 15 j 12:00 28°538'38 29.26667 AU minimum elong 14°9528'28 2°23'28 max. Earth dist. -7425 Aug 31 j 11:43 -7418 Jun 04 j 01:02 14°527'33 31.28756 AU direct 27°9315'12 -7425 Sep 15 j 21:56 -7418 Aug 31 j 12:16 15°9502'18 29°909'50 morning rise evening set -7425 Dec 12 j 16:07 retrograde 16°956'22 2°33'31 -7418 Sep 15 j 12:17 opposition -7424 Mar 01 j 02:48 15°**©**34'04 conjunction 29°**©**43'39 2°28'27 -7418 Sep 15 j 12:18 2°28'54 min. Earth dist. -7424 Mar 01 j 11:12 15°533'30 29.28911 AU minimum elong 29°**5**43'39 -7418 Sep 15 j 08:41 direct -7424 May 21 j 03:41 14°9510'14 max. Earth dist. 29°543'18 31.26303 AU evening set -7424 Aug 18 j 05:15 16°905'29 -7418 Sep 22 j 17:08 $0^{\circ}\Omega$ morning rise -7418 Sep 30 j 12:10 0°Ω17'27 conjunction -7424 Sep 02 j 06:40 16°**©**39'24 2°24'22 retrograde -7418 Dec 27 j 21:43 2°Ω12'20 -7424 Sep 02 j 06:40 -7417 Mar 17 j 21:29 minimum elong 16°939'24 2°24'51 opposition 0°**Ω**49'30 2°38'37 -7424 Sep 01 j 22:09 -7417 Mar 17 j 23:27 max. Earth dist. 16°938'36 31.28641 AU min. Earth dist. 0°**Ω**49'22 29.26365 AU morning rise -7424 Sep 17 j 06:50 17°9513'14 -7417 Apr 19 j 15:04 30°Rூ retrograde -7424 Dec 14 j 01:45 19°907'25 direct -7417 Jun 06 j 11:44 29°925'53 opposition -7423 Mar 03 j 15:52 17°**9**345'04 2°34'55 -7417 Jul 22 j 09:42 $0^{\circ}\Omega$ min. Earth dist. -7423 Mar 04 j 00:34 17°**5**644'29 29.28735 AU evening set -7417 Sep 02 j 21:04 1° **Ω**20′27 direct -7423 May 23 j 16:08 16°921'17 evening set -7423 Aug 20 j 14:36 18°9516'26 conjunction -7417 Sep 17 j 21:09 1°Ω54'16 2°28'23 minimum elong -7417 Sep 17 j 21:09 1°Ω54'16 2°28'51 conjunction -7423 Sep 04 j 15:43 18°**9**50'19 2°25'34 max. Earth dist. -7417 Sep 17 j 19:46 1°**Ω**54'08 31.26038 AU minimum elong -7423 Sep 04 i 15:42 18°950'19 2°26'04 morning rise -7417 Oct 02 i 20:54 2°**Ω**28′05 max. Earth dist. -7423 Sep 04 i 07:34 18°9549'33 31.28400 AU retrograde -7417 Dec 30 i 08:54 4°Ω23'07 morning rise -7423 Sep 19 i 15:48 19°9524'08 opposition -7416 Mar 19 i 10:37 3°Ω00'15 2°38'26 retrograde -7423 Dec 16 j 12:54 21°9518'26 min. Earth dist. -7416 Mar 19 j 12:00 3°Ω00'09 29.26135 AU opposition -7422 Mar 06 j 04:45 19°956'01 2°36'06 -7416 Jun 07 j 23:40 1°Ω36'43 direct -7422 Mar 06 j 11:43 19°**©**55'33 -7416 Sep 04 j 06:06 3°**Ω**31'13 min. Earth dist. 29 28421 AU evening set -7422 May 26 j 04:24 18°932'15 direct 20°527'18 -7416 Sep 19 j 05:59 4°Ω05'02 2°28'07 -7422 Aug 22 j 23:57 conjunction evening set 4°**Ω**05'02 2°28'33 -7416 Sep 19 j 06:00 minimum elong -7422 Sep 07 j 00:46 4°**Ω**04'57 31.25850 AU -7416 Sep 19 j 05:02 conjunction 21°901'10 2°26'34 max. Earth dist. -7422 Sep 07 j 00:46 -7416 Oct 04 j 05:58 4°**Ω**38'52 21°9601'10 2°27'03 minimum elong morning rise -7416 Dec 31 j 21:15 -7422 Sep 06 j 17:11 6°**Ω**34'03 max. Earth dist. 21°500'27 31.28020 AU retrograde -7422 Sep 22 j 00:43 -7415 Mar 21 j 23:35 5°Ω11'10 2°38'01 morning rise 21°934'59 opposition -7422 Dec 18 j 23:10 23°529'23 -7415 Mar 21 j 22:59 5°**Ω**11'12 29.25966 AU retrograde min. Earth dist. -7421 Mar 08 j 17:43 opposition 22°506'52 2°37'03 direct -7415 Jun 10 j 10:45 3°**Ω**47'43 -7421 Mar 09 j 00:55 min. Earth dist. 22°506'23 29.28000 AU evening set -7415 Sep 06 j 15:00 5°**Ω**42'09 direct -7421 May 28 j 15:08 20°9543'07 -7421 Aug 25 j 09:06 22°538'03 conjunction -7415 Sep 21 j 14:57 6°Ω15'59 2°27'37 evening set minimum elong -7415 Sep 21 j 14:57 6°Ω15'59 2°28'04 conjunction -7421 Sep 09 j 09:46 23°5511'55 2°27'21 max. Earth dist. -7415 Sep 21 j 15:27 6°Ω16'02 31.25680 AU -7421 Sep 09 j 09:46 23°9511'55 2°27'51 -7415 Oct 06 j 14:59 6°**Ω**49'51 minimum elong morning rise -7421 Sep 09 j 03:40 23°5011'20 31.27569 AU -7414 Jan 03 j 07:58 8°**Ω**45'10 max. Earth dist. retrograde -7421 Sep 24 j 09:34 -7414 Mar 24 j 12:45 7°**Ω**22'16 2°37'23 morning rise 23°5645'43 opposition -7421 Dec 21 j 09:35 min. Earth dist. -7414 Mar 24 j 12:12 7°Ω22'18 29.25789 AU retrograde 25°5540'13 opposition -7420 Mar 10 j 06:41 24°517'37 2°37'47 direct -7414 Jun 12 i 22:55 5°**Ω**58'56 min. Earth dist. -7420 Mar 10 j 12:09 24°517'15 29.27524 AU evening set -7414 Sep 08 j 24:00 7°**Ω**53'18 direct -7420 May 30 j 03:13 22°953'53 -7414 Sep 23 i 23:55 evening set -7420 Aug 26 j 18:11 24°5548'42 conjunction 8°Ω27'08 2°26'55 minimum elong -7414 Sep 23 i 23:55 8°Ω27'08 2°27'20 -7420 Sep 10 j 18:31 25°\$22'32 2°27'56 max. Earth dist. -7414 Sep 24 j 01:13 8°**Ω**27'15 31.25490 AU conjunction -7420 Sep 10 i 18:31 25°522'32 2°28'24 -7414 Oct 09 j 00:04 9°Ω01'00 minimum elong morning rise max. Earth dist. -7420 Sep 10 j 12:42 25°521'59 31.27090 AU -7413 Jan 05 j 20:10 10°**Ω**56′29 retrograde morning rise -7420 Sep 25 j 18:25 25°956'21 opposition -7413 Mar 27 j 01:48 9°Ω33'34 2°36'31 9°**Ω**33'44 29.25559 AU retrograde -7420 Dec 22 j 21:48 27°950'58 min. Earth dist. -7413 Mar 26 j 23:19 -7419 Mar 12 j 19:43 26°528'16 2°38'17 direct -7413 Jun 15 j 10:58 8°Ω10'19 opposition min. Earth dist. -7419 Mar 13 j 00:30 26°527'57 29.27070 AU evening set -7413 Sep 11 j 09:08 10°**Ω**04'36 -7419 Jun 01 j 12:34 25°904'33 direct -7413 Sep 26 j 09:00 10°**Ω**38'27 2°26'00 evening set -7419 Aug 29 j 03:10 26°959'16 conjunction -7413 Sep 26 j 09:00 10°**Ω**38'27 2°26'25 minimum elong -7413 Sep 26 j 10:50 10°**Ω**38'38 31.25215 AU conjunction -7419 Sep 13 j 03:30 27°**©**33'06 2°28'18 max. Earth dist. minimum elong -7419 Sep 13 j 03:30 27°533'06 2°28'46 morning rise -7413 Oct 11 j 09:22 11°**Ω**12'21 max. Earth dist. -7419 Sep 12 j 23:46 27°532'44 31.26656 AU retrograde -7412 Jan 08 j 07:01 13°**Ω**08′00 opposition morning rise -7419 Sep 28 j 03:12 28°906'54 -7412 Mar 28 j 15:10 11°**Ω**45'02 2°35'25 -7419 Dec 15 j 10:46 0° Ω min. Earth dist. -7412 Mar 28 j 12:54 11°**Ω**45'11 29.25238 AU -7419 Dec 25 j 08:11 0° **Q**01'38 -7412 Jun 16 j 21:19 10°**£**21'51 retrograde direct -7418 Jan 04 j 08:51 30°Rூ -7412 Sep 12 j 18:08 12°Ω16'04 evening set

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -7412 in astronomical counting style is the year 7413 BCE in historical counting style. -7412 Sep 27 j 18:11 12°**Ω**49'55 2°24'52 max. Earth dist. -7406 Oct 11 i 09:26 25°Ω59'04 31.20282 AU conjunction 12°**Ω**49'55 2°25'15 -7412 Sep 27 j 18:12 -7406 Oct 26 j 03:48 26°Ω32'23 minimum elong morning rise -7412 Sep 27 j 21:26 12°**Ω**50'13 31.24835 AU -7405 Jan 23 j 18:34 28°Ω28'45 max. Earth dist. retrograde -7405 Apr 14 j 11:19 -7412 Oct 12 j 18:40 13°**Ω**23'51 27°Ω05'08 2°21'39 morning rise opposition -7412 Dec 06 j 03:50 -7405 Apr 14 j 02:54 27°**Ω**05'42 29.20078 AU 15°€ min. Earth dist. -7405 Jul 03 j 04:28 -7411 Jan 09 j 17:44 retrograde 15°**Ω**19'37 direct 25°**Ω**42'03 -7411 Feb 14 j 13:04 15°RΩ evening set -7405 Sep 28 j 09:12 27°**Ω**35′28 opposition -7411 Mar 31 j 04:23 13°**Ω**56'37 2°34'06 -7405 Oct 13 j 10:35 min. Earth dist. -7411 Mar 31 j 00:39 13°**Ω**56'52 29.24776 AU conjunction 28°**Ω**09'27 2°11'16 -7405 Oct 13 j 10:36 28°**Ω**09'27 2°11'36 direct -7411 Jun 19 j 09:07 12°**Ω**33'28 minimum elong -7405 Oct 13 j 19:53 28° **Ω**10'20 31.19568 AU evening set -7411 Sep 15 j 03:24 14°**Ω**27'35 max. Earth dist. -7411 Sep 29 j 12:00 -7405 Oct 28 j 13:27 15°€ morning rise 28°**Ω**43'34 -7405 Dec 07 j 01:55 0°m conjunction -7411 Sep 30 j 03:24 15°**Ω**01'28 2°23'31 retrograde -7404 Jan 26 j 07:12 0° Mp 40'03minimum elong -7411 Sep 30 j 03:25 15°**Ω**01'28 2°23'55 -7404 Mar 18 j 16:56 30° R Ω max. Earth dist. -7411 Sep 30 j 06:21 15°**Ω**01'44 31.24301 AU opposition -7404 Apr 16 j 00:19 29° Ω16'22 2°18'50 morning rise -7411 Oct 15 j 04:17 15°**Ω**35'24 min. Earth dist. -7404 Apr 15 j 13:38 29°**Ω**17'05 29.19401 AU retrograde -7410 Jan 12 j 06:21 17°**Ω**31'19 direct -7404 Jul 04 j 16:31 27°Ω53'18 opposition -7410 Apr 02 j 17:32 16°Ω08'14 2°32'34 evening set -7404 Sep 29 j 18:07 29°Ω46'39 min. Earth dist. -7410 Apr 02 j 13:39 16°**Ω**08'29 29.24171 AU -7404 Oct 05 j 17:25 -7410 May 22 j 01:45 15°RΩ direct -7410 Jun 21 j 18:06 14°**Ω**45'07 conjunction -7404 Oct 14 i 19:45 0°m 20'38 2°08'33 -7410 Jul 21 i 16:54 15°Ω minimum elong -7404 Oct 14 i 19:46 0°m/20'39 2°08'50 evening set -7410 Sep 17 j 12:27 16°**Ω**39'08 max. Earth dist. -7404 Oct 15 i 05:46 0° m 21'35 31.18935 AU morning rise -7404 Oct 29 j 23:11 0° m 54'49 -7410 Oct 02 j 12:46 17°Ω13'01 2°21'59 -7403 Jan 27 j 18:09 2° m 51'25 conjunction retrograde -7410 Oct 02 j 12:47 17°Ω13'01 2°22'21 -7403 Apr 18 j 13:27 1° m 27'40 2°15'49 opposition minimum elong -7410 Oct 02 j 17:21 -7403 Apr 18 j 02:43 1° Mp 28'24 29.18802 AU max. Earth dist. 17°**Ω**13'27 31.23624 AU min. Earth dist. -7410 Oct 17 j 13:45 -7403 Jul 07 j 02:48 0° m 04'41 17°**Ω**46'59 direct morning rise -7409 Jan 14 j 17:17 19°**Ω**43′00 -7403 Oct 02 j 03:05 1° m 57'56 retrograde evening set -7409 Apr 05 j 06:47 18°Ω19'49 2°30'48 opposition -7409 Apr 05 j 01:59 18°**Ω**20'08 29.23415 AU -7403 Oct 17 j 05:12 2°m/31'58 2°05'38 min. Earth dist. conjunction -7403 Oct 17 j 05:13 -7409 Jun 24 j 06:53 16°**Ω**56'43 2° m/31'58 2°05'55 direct minimum elong -7409 Sep 19 j 21:28 18°**Ω**50'36 -7403 Oct 17 j 17:00 2° m 33'05 31.18369 AU evening set max. Earth dist. -7403 Nov 01 j 08:58 3° Mp 06'10 morning rise 19°**Q**24'30 2°20'14 -7409 Oct 04 j 21:48 -7402 Jan 30 j 05:02 5° m 02'54 conjunction retrograde -7409 Oct 04 j 21:49 19°**Ω**24'30 2°20'37 -7402 Apr 21 j 02:18 3°m/39'07 2°12'36 minimum elong opposition max. Earth dist. -7409 Oct 05 j 02:12 19°**Ω**24'55 31.22827 AU min. Earth dist. -7402 Apr 20 j 13:55 3° m/39'57 29.18237 AU morning rise -7409 Oct 19 j 23:16 19°**Ω**58'29 direct -7402 Jul 09 j 14:33 2° m 16'11 retrograde -7408 Jan 17 j 07:08 21°**Ω**54'36 evening set -7402 Oct 04 j 12:15 4° m 09'22 -7408 Apr 06 j 20:03 20°**Ω**31'18 2°28'50 opposition min. Earth dist. -7408 Apr 06 j 14:10 20°**Ω**31'42 29.22576 AU -7402 Oct 19 j 14:33 4° Mp 43'26 2°02'31 conjunction -7408 Jun 25 j 17:10 19°**Ω**08'12 -7402 Oct 19 j 14:33 4° Mp 43'26 2°02'46 direct minimum elong -7408 Sep 21 j 06:25 21°**Ω**01'58 -7402 Oct 20 j 02:18 4° m/44'33 31.17819 AU evening set max. Earth dist. -7402 Nov 03 j 18:58 5° m 17'42 morning rise -7408 Oct 06 i 07:05 21°Ω35'52 2°18'17 conjunction retrograde -7401 Feb 01 i 18:06 7° m 14'34 minimum elong -7408 Oct 06 i 07:06 21°Ω35'52 2°18'38 opposition -7401 Apr 23 i 15:29 5° m 50'45 2°09'10 max. Earth dist. -7408 Oct 06 j 13:22 21°Ω36'28 31.21960 AU min. Earth dist. -7401 Apr 23 i 02:44 5° m 51'36 29.17682 AU morning rise -7408 Oct 21 i 08:46 22°Ω09'54 direct -7401 Jul 11 i 23:32 4° m 27'53 evening set -7407 Jan 18 i 18:05 24°Ω06'05 -7401 Oct 06 j 21:13 6° m 21'00 retrograde -7407 Apr 09 j 09:10 22°Ω42'40 2°26'39 opposition min. Earth dist. -7407 Apr 09 j 02:56 22°Ω43'06 29.21697 AU -7401 Oct 22 j 00:04 6° m 55'06 1°59'14 conjunction -7407 Jun 28 j 04:37 21°Ω19'33 -7401 Oct 22 j 00:05 6° m 55'06 1°59'29 direct minimum elong evening set -7407 Sep 23 j 15:23 23°**Ω**13'12 max. Earth dist. -7401 Oct 22 j 13:41 6° M 56'23 31.17247 AU morning rise -7401 Nov 06 j 04:51 7° m 29'24 conjunction -7407 Oct 08 j 16:12 23°Ω47'07 2°16'09 retrograde -7400 Feb 04 j 05:24 9° m 26'25 minimum elong -7407 Oct 08 j 16:13 23°**Ω**47'07 2°16'30 opposition -7400 Apr 25 j 04:39 8° m 02'33 2°05'34 -7407 Oct 08 j 22:54 23°**Ω**47'45 31.21100 AU min. Earth dist. -7400 Apr 24 j 14:59 8° m 03'29 29.17067 AU max. Earth dist. -7407 Oct 23 j 18:21 24°**Ω**21'11 -7400 Jul 13 j 11:26 6° m 39'45 morning rise direct -7406 Jan 21 j 07:01 26°**Ω**17'27 -7400 Oct 08 j 06:37 8° m 32'48 retrograde evening set -7406 Apr 11 j 22:11 opposition 24°**Ω**53'56 2°24'15 min. Earth dist. -7406 Apr 11 j 14:00 24°**Ω**54'29 29.20854 AU conjunction -7400 Oct 23 j 09:44 9° Mp 06'56 1°55'46 direct -7406 Jun 30 j 16:10 23°**Ω**30'49 minimum elong -7400 Oct 23 j 09:45 9° Mp 06'56 1°55'59 evening set -7406 Sep 26 j 00:16 25°**Ω**24'21 max. Earth dist. -7400 Oct 23 j 23:00 9° Mp 08'11 31.16604 AU morning rise -7400 Nov 07 j 15:12 9° mp 41'17 -7406 Oct 11 j 01:20 25°Ω58'17 2°13'49 -7399 Feb 05 j 19:37 11°Mp38'26 conjunction retrograde -7406 Oct 11 j 01:20 25° **Ω**58'18 2°14'07 -7399 Apr 27 j 17:40 10° m 14'31 2°01'46 minimum elong opposition

Planetary Phenomena of Neptune from -7900 through -7398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 40

Attention, astronomical year style is used: The year -7399 in astronomical counting style is the year 7400 BCE in historical counting style.

min. Earth dist. -7399 Apr 27 j 03:16 10° **m** 15'30 29.16373 AU

direct -7399 Jul 15 j 20:45 8° M 51'45 evening set -7399 Oct 10 j 15:57 10° M 44'45

 conjunction
 -7399 Oct
 25 j 19:37
 11° m 18'55
 1°52'08

 minimum elong
 -7399 Oct
 25 j 19:38
 11° m 18'55
 1°52'21

 max. Earth dist.
 -7399 Oct
 26 j 10:16
 11° m 20'18
 31.15844 AU

morning rise -7399 Nov 10 j 01:31 11° **m** 53'19