Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1900 in astronomical counting style is the year 1901 BCE in historical counting style. 8°**Υ**18'40 direct -1900 Jan 04 i 09:44 max. Earth dist. -1894 May 02 j 15:01 24°Υ17'28 30.87496 AU -1894 May 18 j 14:40 -1900 Apr 01 j 13:38 10°**Y**13′08 24°Y52'53 evening set morning rise -1894 Aug 16 j 17:26 26°**Y**49'37 retrograde -1900 Apr 17 j 17:44 10°Υ49'03 -2°00'34 -1894 Nov 02 j 23:10 25°**Y**'24'57 -1°58'09 conjunction opposition -1900 Apr 17 j 17:44 10°**Υ**49'03 2°00'33 -1894 Nov 02 j 16:34 25°Υ25'25 28.88045 AU minimum elong min. Earth dist. 10°**Υ**′50'15 30.84788 AU 24° **Y**00'23 -1900 Apr 18 j 06:34 -1893 Jan 19 j 22:02 max. Earth dist. direct -1900 May 03 j 23:26 11°Y25'08 25°**Y**55'11 morning rise evening set -1893 Apr 18 j 15:32 -1900 Aug 02 j 14:37 13°**Y**22'49 retrograde -1900 Oct 20 j 07:35 26°**Y**31'11 -1°49'26 opposition 11°**Υ**'57'54 -2°08'22 conjunction -1893 May 04 j 21:58 11°**Υ**'58'38 28.85036 AU 26°**Ƴ**31'11 1°49'26 min. Earth dist. -1900 Oct 19 j 21:16 minimum elong -1893 May 04 j 21:58 26°**Υ**31'54 30.88388 AU direct -1899 Jan 05 j 20:55 10°**Y**33'39 max. Earth dist. -1893 May 05 j 05:37 12°Y28'09 27° **Y**07'17 evening set -1899 Apr 04 j 03:46 morning rise -1893 May 21 j 04:58 29°**Y**03′54 retrograde -1893 Aug 19 j 04:59 conjunction -1899 Apr 20 j 08:09 13°**Y**04'04 -1°59'30 opposition -1893 Nov 05 j 09:40 27° Y 39'20 -1°55'48 minimum elong -1899 Apr 20 j 08:10 13°Υ04'04 1°59'30 min. Earth dist. -1893 Nov 05 j 03:34 27°**Y**39'46 28.88963 AU max. Earth dist. -1899 Apr 20 j 19:14 13°**Y**05'06 30.85021 AU direct -1892 Jan 22 j 10:37 26°**Y**14'47 morning rise -1899 May 06 j 14:14 13°**Y**40'10 evening set -1892 Apr 20 j 05:48 28° Y 09'40 retrograde -1899 Aug 05 j 03:11 15°**Ƴ**37'40 opposition -1899 Oct 22 j 18:18 14°Υ12'46 -2°07'08 conjunction -1892 May 06 j 12:20 28°Y45'41 -1°47'09 min. Earth dist. -1899 Oct 22 j 08:06 14°**Y**13'30 28.85277 AU minimum elong -1892 May 06 j 12:21 28°Y45'41 1°47'08 direct -1898 Jan 08 j 08:51 12°Y48'26 max. Earth dist. -1892 May 06 j 17:52 28°**Y**46'12 30.89342 AU evening set -1898 Apr 06 i 17:46 14° **Y** 42' 58 morning rise -1892 May 22 j 19:39 29°Y21'47 -1892 Jun 10 j 04:30 0°8 conjunction -1898 Apr 22 j 22:30 15°**Y**18'54 -1°58'16 retrograde -1892 Aug 20 j 18:01 1°818'16 -1898 Apr 22 j 22:30 15°**Υ**18'54 1°58'15 -1892 Nov 03 i 05:05 30°RY minimum elong -1898 Apr 23 i 09:17 15°**Y**19'54 30.85278 AU -1892 Nov 06 j 20:04 29°Y53'49 -1°53'16 max. Earth dist. opposition -1898 May 09 j 04:40 15°**Y**54'59 -1892 Nov 06 j 14:53 29°Υ′54'11 28.89923 AU morning rise min Earth dist -1898 Aug 07 j 14:04 17°**Y**′52′20 -1891 Jan 23 j 21:01 28°Y29'16 retrograde direct -1898 Oct 25 j 05:01 16°**Y**27'27 -2°05'43 -1891 Apr 11 j 09:15 0°8 opposition -1898 Oct 24 j 20:20 16°**Y**28'04 28.85573 AU -1891 Apr 22 j 20:04 0°**8**24'14 min. Earth dist. evening set -1897 Jan 10 j 21:20 15°**℃**03'02 direct -1891 May 09 j 03:01 -1897 Apr 09 j 07:41 16°**Y**57'36 1°800'17 -1°44'42 conjunction evening set 1°800'17 1°44'41 -1891 May 09 j 03:01 minimum elong 17°**Υ**33'32 -1°56'51 -1891 May 09 j 08:28 -1897 Apr 25 j 12:47 max. Earth dist. 1°800'47 30.90286 AU conjunction -1897 Apr 25 j 12:47 -1891 May 25 j 10:14 1°**8**36'23 minimum elong 17° **Y**33'32 1° 56'51 morning rise 17°**Υ**34'28 30.85636 AU -1897 Apr 25 j 22:40 -1891 Aug 23 j 05:07 3°**8**32'44 max. Earth dist. retrograde -1897 May 11 j 19:12 18°**Y**09'37 -1891 Nov 09 j 06:40 2°**8**08'24 -1°50'34 morning rise opposition retrograde -1897 Aug 10 j 03:12 20°**Y**06'49 min. Earth dist. -1891 Nov 09 j 03:03 2°808'40 28.90832 AU -1897 Oct 27 j 15:30 18°**Y**41'57 -2°04'06 direct -1890 Jan 26 j 07:59 0°843'51 opposition min. Earth dist. -1897 Oct 27 j 06:25 18°**Υ**42'36 28.85983 AU evening set -1890 Apr 25 j 10:21 2°838'54 -1896 Jan 13 j 10:25 17°**Y**17′28 direct -1896 Apr 10 j 21:39 19°**Y**12′05 -1890 May 11 j 17:23 3°814'56 -1°42'06 evening set conjunction -1890 May 11 j 17:24 3°814'56 1°42'04 minimum elong -1896 Apr 27 j 03:01 19°**Y**48'02 -1°55'15 -1890 May 11 j 20:42 3°815'15 30.91164 AU conjunction max. Earth dist. -1896 Apr 27 j 03:02 19°**Y**48'02 1°55'14 -1890 May 28 j 00:49 3°**8**51'03 minimum elong morning rise -1896 Apr 27 j 12:02 max. Earth dist. 19°**Υ**48'52 30.86109 AU retrograde -1890 Aug 25 i 17:19 5°**8**47'16 -1896 May 13 i 09:40 morning rise 20°**Y**24'07 opposition -1890 Nov 11 j 17:10 4°823'01 -1°47'42 retrograde -1896 Aug 11 j 15:19 22°Y21'09 min. Earth dist. -1890 Nov 11 i 13:54 4°823'15 28.91661 AU opposition -1896 Oct 29 i 02:11 20°Y56'20 -2°02'18 direct -1889 Jan 28 i 19:44 2°**8**58'26 min. Earth dist. -1896 Oct 28 j 18:38 20°Υ56'52 28.86527 AU evening set -1889 Apr 28 j 00:36 4°853'33 -1895 Jan 14 j 21:36 19°**Y**31'48 direct -1895 Apr 13 j 11:37 21°**Y**26'27 -1889 May 14 i 07:57 5°829'37 -1°39'21 evening set conjunction -1889 May 14 j 07:57 5°**8**29'37 1°39'20 minimum elong 5°**8**29'51 30.91939 AU conjunction -1895 Apr 29 j 17:26 22°Y02'26 -1°53'29 max. Earth dist. -1889 May 14 j 10:34 minimum elong -1895 Apr 29 j 17:26 22°Υ02'26 1°53'29 morning rise -1889 May 30 j 15:20 6°805'43 -1889 Aug 28 j 03:45 max. Earth dist. -1895 Apr 30 j 02:21 22°Υ03'15 30.86733 AU retrograde 8°801'46 -1895 May 16 j 00:09 22°Y38'31 opposition -1889 Nov 14 j 03:42 6°837'36 -1°44'40 morning rise -1895 Aug 14 j 04:47 24° Y 35'23 -1889 Nov 14 j 02:26 6°**႘**37'41 28.92385 AU retrograde min. Earth dist. -1895 Oct 31 j 12:34 23°Y10'38 -2°00'19 -1888 Jan 31 j 07:43 5°**8**12'59 opposition direct -1895 Oct 31 j 04:50 23°**Υ**11'11 28.87213 AU -1888 Apr 29 j 14:49 min. Earth dist. evening set 7°**8**08'08 21°**Y**46'05 direct -1894 Jan 17 j 11:14 evening set -1894 Apr 16 j 01:43 23°**Y**40'48 conjunction -1888 May 15 j 22:24 7°**8**44'12 -1°36'27 minimum elong -1888 May 15 j 22:25 7°**8**44'12 1°36'25 conjunction -1894 May 02 j 07:40 24°**Y**16'47 -1°51'33 max. Earth dist. -1888 May 15 j 23:22 7°**8**44'18 30.92632 AU minimum elong -1894 May 02 j 07:40 24°**Υ**16'47 1°51'32 morning rise -1888 Jun 01 j 05:57 8°**8**20'18

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1888 in astronomical counting style is the year 1889 BCE in historical counting style. retrograde 10°**8**16'12 -1888 Aug 29 j 16:27 evening set -1881 May 16 j 16:45 22°**8**46'01 -1888 Nov 15 i 14:04 8°852'05 -1°41'30 opposition min. Earth dist. -1888 Nov 15 j 12:53 8°852'10 28.93023 AU conjunction -1881 Jun 02 j 01:08 23°822'05 -1°12'26 -1887 Feb 01 j 20:41 7°827'24 -1881 Jun 02 j 01:09 23°**8**22'05 1°12'25 direct minimum elong -1881 Jun 01 j 19:35 -1887 May 02 j 05:06 9°**8**22'36 23°**8**21'35 30.97817 AU evening set max. Earth dist. -1881 Jun 18 j 08:32 23°858'06 morning rise -1887 May 18 j 12:50 9°858'41 -1°33'24 -1881 Sep 15 j 01:34 25°**8**52'47 conjunction retrograde minimum elong -1887 May 18 j 12:50 -1881 Dec 01 j 13:42 24°829'06 -1°15'22 9°**8**58'41 1°33'23 opposition -1887 May 18 j 12:30 -1881 Dec 01 j 17:52 max. Earth dist. 9°**8**58'39 30.93239 AU min. Earth dist. 24°**8**28'48 28.98410 AU -1887 Jun 03 j 20:22 morning rise 10°**8**34'46 direct -1880 Feb 18 j 09:59 23°**8**04'08 12°830'29 retrograde -1887 Sep 01 j 03:45 evening set -1880 May 18 j 06:36 24°**8**59'37 -1887 Nov 18 j 00:28 11°**8**06'25 -1°38'10 opposition 11°**8**06'21 28.93612 AU -1880 Jun 03 j 15:08 25°**8**35'42 -1°08'32 min. Earth dist. -1887 Nov 18 j 01:16 conjunction -1880 Jun 03 j 15:08 direct -1886 Feb 04 j 08:13 9°**8**41'40 minimum elong 25°835'42 1°08'30 evening set -1886 May 04 j 19:11 11°**8**36'55 max. Earth dist. -1880 Jun 03 j 09:28 25°**8**35'11 30.98922 AU morning rise -1880 Jun 19 j 22:17 26°811'42 conjunction -1886 May 21 j 03:10 12°812'59 -1°30'13 retrograde -1880 Sep 16 j 11:21 28°**8**06'15 minimum elong -1886 May 21 j 03:10 12°**8**12'59 1°30'11 opposition -1880 Dec 02 j 23:58 26°842'40 -1°11'09 max. Earth dist. -1886 May 21 j 02:17 12°**8**12'54 30.93832 AU min. Earth dist. -1880 Dec 03 j 05:53 26°842'15 28.99529 AU morning rise -1886 Jun 06 j 10:41 12°849'03 direct -1879 Feb 19 j 20:47 25°817'42 retrograde -1886 Sep 03 j 16:34 14°**8**44'35 evening set -1879 May 20 j 20:33 27°**8**13'16 opposition -1886 Nov 20 j 10:44 13°820'33 -1°34'42 min. Earth dist. -1886 Nov 20 j 11:37 13°**8**20'30 28.94197 AU conjunction -1879 Jun 06 i 05:00 27°849'20 -1°04'32 direct -1885 Feb 06 i 22:43 11°**8**55'45 minimum elong -1879 Jun 06 i 05:01 27°849'20 1°04'30 evening set -1885 May 07 j 09:09 13°**8**51'01 max. Earth dist. -1879 Jun 05 i 21:51 27°848'40 31.00050 AU -1879 Jun 22 j 12:05 28°825'19 morning rise -1885 May 23 j 17:10 14°**8**27'06 -1°26'55 -1879 Aug 15 j 17:42 $\Pi^{\circ}0$ conjunction -1885 May 23 j 17:10 14°**8**27'06 1°26'53 -1879 Sep 18 j 23:24 0°**Ⅱ**19'43 minimum elong retrograde max. Earth dist. -1885 May 23 j 14:39 14°**8**26'52 30.94437 AU -1879 Oct 23 j 15:11 30°R₩ -1885 Jun 07 j 13:54 15°8 -1879 Dec 05 j 10:05 28°**8**56'15 -1°06'48 opposition -1885 Jun 09 j 00:48 15°**8**03'10 -1879 Dec 05 j 15:59 28°**8**55'50 29.00632 AU morning rise min. Earth dist. retrograde -1885 Sep 06 j 04:18 -1878 Feb 22 j 08:34 16°**8**58'31 direct 27°**8**31'17 -1885 Nov 22 j 21:03 -1878 May 23 j 10:32 opposition 15°**8**34'31 -1°31'06 evening set 29°**8**26'54 -1878 Jun 07 j 10:53 min. Earth dist. -1885 Nov 22 j 23:14 15°**8**34'22 28.94833 AU Π °0 -1885 Dec 13 j 17:53 15°₹**႘** -1878 Jun 08 j 18:56 0°П02'58 -1°00'26 -1884 Feb 09 j 10:34 14°**8**09'39 direct conjunction -1884 Apr 05 j 18:36 -1878 Jun 08 j 18:56 0°**П**02'58 1°00'23 15°**8** minimum elong evening set -1884 May 08 j 23:05 16°**8**04'58 max. Earth dist. -1878 Jun 08 j 10:40 0°**Д**02'12 31.01121 AU morning rise -1878 Jun 25 j 01:47 0°**I**I38′56 conjunction -1884 May 25 j 07:23 16°841'02 -1°23'28 retrograde -1878 Sep 21 j 09:43 2°**Ⅲ**33'12 minimum elong -1884 May 25 j 07:24 16°841'02 1°23'26 opposition -1878 Dec 07 j 20:26 1°**I**109'49 -1°02'23 max. Earth dist. -1884 May 25 j 04:59 16°**8**40'49 30.95113 AU min. Earth dist. -1878 Dec 08 j 04:17 1°**Д**09'16 29.01670 AU morning rise -1884 Jun 10 j 14:52 17°**8**17'05 -1877 Jan 25 j 06:00 30°R₩ -1884 Sep 07 j 15:27 19°**8**12'15 -1877 Feb 24 j 19:59 29°844'50 retrograde direct -1884 Nov 24 j 07:10 17°**8**48'19 -1°27'21 -1877 Mar 27 j 07:13 $\Pi^{\circ}0$ opposition -1884 Nov 24 i 09:49 17°**8**48'07 28.95543 AU 1°II40'30 min. Earth dist. evening set -1877 May 26 i 00:18 -1883 Feb 10 i 23:43 16°**8**23'24 direct -1877 Jun 11 j 08:44 2°II16'33 -0°56'14 evening set -1883 May 11 j 13:10 18°**8**18'44 conjunction minimum elong -1877 Jun 11 i 08:44 2°**I**16'33 0°56'12 -1883 May 27 j 21:23 18°854'49 -1°19'55 max. Earth dist. -1877 Jun 10 i 23:38 2°**П**15'43 31.02116 AU conjunction morning rise -1883 May 27 i 21:24 18°**8**54'49 1°19'53 -1877 Jun 27 i 15:24 2°**I**I52'29 minimum elong max. Earth dist. -1883 May 27 j 17:04 18°**8**54'25 30.95887 AU retrograde -1877 Sep 23 j 21:25 4°**Ⅱ**46'37 -1883 Jun 13 j 04:58 19°**8**30'51 -1877 Dec 10 j 06:40 3°II23'18 -0°57'51 morning rise opposition -1883 Sep 10 j 04:23 21°**8**25'51 3°**Ц**22'43 29.02596 AU retrograde min. Earth dist. -1877 Dec 10 j 14:51 1°II58'16 opposition -1883 Nov 26 j 17:24 20°801'58 -1°23'29 direct -1876 Feb 27 j 10:10 20°801'45 28.96382 AU min. Earth dist. -1883 Nov 26 j 20:31 evening set -1876 May 27 j 14:20 3°**I**I53′59 -1882 Feb 13 j 11:03 18°**8**37'01 direct -1882 May 14 j 02:51 20°**8**32'24 -1876 Jun 12 j 22:35 4°**Ⅲ**30'01 -0°51'58 evening set conjunction -1876 Jun 12 j 22:35 4° II 30'01 0° 51' 56 minimum elong 4°**Д**29'00 31.02989 AU -1882 May 30 j 11:18 21°**8**08'29 -1°16'14 -1876 Jun 12 j 11:34 conjunction max. Earth dist. -1882 May 30 j 11:18 21°808'29 1°16'12 -1876 Jun 29 j 05:06 5°**Ⅱ**05'56 minimum elong morning rise max. Earth dist. -1882 May 30 j 07:26 21°**8**08'07 30.96788 AU retrograde -1876 Sep 25 j 08:52 6°**I**59′54 morning rise -1882 Jun 15 j 18:37 21°**8**44'30 opposition -1876 Dec 11 j 16:53 5°**I**36'38 -0°53'15 retrograde -1882 Sep 12 j 14:15 23°**8**39'20 min. Earth dist. -1876 Dec 12 j 02:37 5°**Ц**35'57 29.03422 AU opposition -1882 Nov 29 j 03:40 22°**8**15'33 -1°19'29 direct -1875 Feb 28 j 21:57 4°**Ⅱ**11'33 min. Earth dist. -1882 Nov 29 j 07:51 22°815'15 28.97337 AU -1875 May 30 j 04:08 6°**Ⅲ**07'18 evening set

-1881 Feb 15 j 22:32

direct

20°**8**50'35

•	omena of Neptune f		-				page 3
	nical year style is used: Th	e year -1875 i	n astronomical co	unting style is the year	1876 BCE in historical	counting style.	
conjunction	-1875 Jun 15 j 12:25	6° Ⅱ 43'20	-0°47'38	direct	-1868 Mar 16 j 09:15	19° Ⅲ 39'40	
minimum elong	-1875 Jun 15 j 12:26	6° Ⅱ 43'20		evening set	-1868 Jun 15 j 01:52	21° Ⅱ 35'38	
max. Earth dist.	-1875 Jun 15 j 01:12	6° Ⅱ 42'18	31.03772 AU				
morning rise	-1875 Jul 01 j 18:34	7° Ⅱ 19'13		conjunction	-1868 Jul 01 j 08:39	22° Ⅱ 11'32	-0°15'50
retrograde	-1875 Sep 27 j 19:52	9° Ⅱ 13'00		minimum elong	-1868 Jul 01 j 08:38	22° Ⅱ 11'32	0°15'48
opposition	-1875 Dec 14 j 03:09	7° Ⅱ 49'47	-0°48'35	behind sun begin	-1868 Jul 01 j 08:31	22° Ⅱ 11'31	
min. Earth dist.	-1875 Dec 14 j 13:37	7° Ⅱ 49'03	29.04156 AU	behind sun end	-1868 Jul 01 j 08:45	22° Ⅱ 11'32	
direct	-1874 Mar 03 j 11:37	6° Ⅲ 24'40		max. Earth dist.	-1868 Jun 30 j 16:32	22° Ⅱ 10′02	31.09790 AU
evening set	-1874 Jun 01 j 17:48	8° Ⅲ 20′25		morning rise	-1868 Jul 17 j 12:32	22° Ⅱ 47'12	
				retrograde	-1868 Oct 12 j 20:51	24° Ⅱ 40′02	
conjunction	-1874 Jun 18 j 01:47	8°II56'26	-0°43'14	opposition	-1868 Dec 29 j 01:51	23° Ⅱ 17'17	-0°14'25
minimum elong	-1874 Jun 18 j 01:47	8° Ⅱ 56'26	0°43'12	min. Earth dist.	-1868 Dec 29 j 16:06	23° Ⅱ 16'17	29.10394 AU
max. Earth dist.	-1874 Jun 17 j 12:30	8° Ⅱ 55'13	31.04486 AU	direct	-1867 Mar 18 j 22:17	21° II 52'01	
morning rise	-1874 Jul 04 j 07:49	9° Ⅱ 32'17		evening set	-1867 Jun 17 j 15:10	23° Ⅱ 48′03	
retrograde	-1874 Sep 30 j 08:17	11° Ⅱ 25'55		C	,		
opposition	-1874 Dec 16 j 13:18	10° Ⅱ 02'44	-0°43'51	conjunction	-1867 Jul 03 j 21:30	24° Ⅲ 23'55	-0°11'09
min. Earth dist.	-1874 Dec 17 j 00:23		29.04858 AU	minimum elong	-1867 Jul 03 j 21:31	24° Ⅱ 23'56	0°11'07
direct	-1873 Mar 05 j 23:53	8° I 37'33		behind sun begin	-1867 Jul 03 j 16:40	24° Ⅱ 23'30	
evening set	-1873 Jun 04 j 07:17	10° ∏ 33'20		behind sun end	-1867 Jul 04 j 02:22	24° I I24'21	
e venning see	1075 Juli 01 j 07.17	10 1133 20		max. Earth dist.	-1867 Jul 03 j 04:12		31.10986 AU
conjunction	-1873 Jun 20 j 15:18	11° Ⅱ 09'20	-0°38'46	morning rise	-1867 Jul 20 j 01:01	24° I 59'34	31.10700710
minimum elong	-1873 Jun 20 j 15:19	11° I I09'20		retrograde	-1867 Oct 15 j 08:11	26° I 52'20	
max. Earth dist.	-1873 Jun 20 j 02:18		31.05180 AU	opposition	-1867 Dec 31 j 12:08	25° I 29'41	000024
	-	11° II 45'09	31.03160 AU	min. Earth dist.	-1866 Jan 01 j 03:26		29.11604 AU
morning rise	-1873 Jul 06 j 20:54	13° II 38'36			-1866 Mar 21 j 08:56	23 H 2837 24° H 04'27	29.11004 AU
retrograde	-1873 Oct 02 j 17:34		0020102	direct	-		
opposition	-1873 Dec 18 j 23:21	12° Ⅱ 15'28		evening set	-1866 Jun 20 j 04:09	26° Ⅱ 00'33	
min. Earth dist.	-1873 Dec 19 j 11:47		29.05553 AU		106611 06:1016	260H26122	0006120
direct	-1872 Mar 07 j 12:19	10° Ⅱ 50'14		conjunction	-1866 Jul 06 j 10:16	26° Ⅱ 36'23	
evening set	-1872 Jun 05 j 20:53	12° Ⅱ 46′02		minimum elong	-1866 Jul 06 j 10:16	26° Ⅱ 36'23	0°06'26
		_		behind sun begin	-1866 Jul 06 j 04:05	26° Ⅱ 35'50	
conjunction	-1872 Jun 22 j 04:34	13° Ⅲ 22'00		behind sun end	-1866 Jul 06 j 16:27	26° Ⅱ 36'56	
minimum elong	-1872 Jun 22 j 04:34	13° Ⅱ 22'00		max. Earth dist.	-1866 Jul 05 j 17:09		31.12179 AU
max. Earth dist.	-1872 Jun 21 j 13:50		31.05903 AU	morning rise	-1866 Jul 22 j 13:14	27° Ⅱ 11'59	
morning rise	-1872 Jul 08 j 10:02	13° Ⅱ 57'48		retrograde	-1866 Oct 17 j 19:11	29° Ⅱ 04'41	
retrograde	-1872 Oct 04 j 04:30	15° Ⅱ 51′06		opposition	-1865 Jan 02 j 22:26	27° Ⅱ 42'08	-0°04'23
opposition	-1872 Dec 20 j 09:24	14° Ⅱ 28′01	-0°34'13	min. Earth dist.	-1865 Jan 03 j 14:23	27° Ⅱ 41'01	29.12761 AU
min. Earth dist.	-1872 Dec 20 j 21:39	14° Ⅱ 27′09	29.06306 AU	direct	-1865 Mar 23 j 22:18	26° Ⅱ 16'55	
direct	-1871 Mar 10 j 00:16	13° Ⅱ 02'44		evening set	-1865 Jun 22 j 17:24	28° Ⅲ 13′04	
evening set	-1871 Jun 08 j 10:11	14° ∏ 58'33					
				conjunction	-1865 Jul 08 j 22:58	28° Ⅱ 48'53	-0°01'45
conjunction	-1871 Jun 24 j 17:45	15° Ⅲ 34'31	-0°29'43	minimum elong	-1865 Jul 08 j 22:59	28° Ⅱ 48'53	0°01'43
minimum elong	-1871 Jun 24 j 17:45	15° Ⅱ 34'31	0°29'40	behind sun begin	-1865 Jul 08 j 16:25	28° Ⅱ 48'18	
max. Earth dist.	-1871 Jun 24 j 03:17		31.06689 AU	behind sun end	-1865 Jul 09 j 05:34	28° Ⅱ 49'28	
morning rise	-1871 Jul 10 j 22:42	16° Ⅱ 10′16		max. Earth dist.	-1865 Jul 08 j 03:53		31.13296 AU
retrograde	-1871 Oct 06 j 13:30	18° Ⅱ 03'26		morning rise	-1865 Jul 25 j 01:38	29° Ⅱ 24'27	
opposition	-1871 Dec 22 j 19:36	16° Ⅱ 40'24	-0°29'19	5 5	-1865 Aug 11 j 03:56	0°ಅ	
min. Earth dist.	-1871 Dec 23 j 09:12		29.07148 AU	retrograde	-1865 Oct 20 j 08:01	1°9517'03	
direct	-1870 Mar 12 j 11:02	15° Ⅱ 15'06		asc. node	-1865 Nov 18 j 10:16	1°502'52	
evening set	-1870 Jun 10 j 23:29	17° Ⅱ 10'56			-1864 Jan 02 j 02:59	30° Ŗ Ⅱ	
e venning see	10,00011110,25.25	., 2.000		opposition	-1864 Jan 05 j 08:36	29° ∏ 54'34	0°00'39
conjunction	-1870 Jun 27 j 06:44	17° Ⅱ 46'53	-0°25'07	min. Earth dist.	-1864 Jan 06 j 01:07		29.13839 AU
minimum elong	-1870 Jun 27 j 06:44	17° I I46'53		direct	-1864 Mar 25 j 10:58	28° II 29'22	2).1363) AO
max. Earth dist.	-1870 Jun 26 j 15:16		31.07603 AU	uncci	-1864 Jun 12 j 03:18	0°95	
		17 Ⅱ 4327 18° Ⅱ 22'37	31.07003 AO	avanina aat	-	0°925'34	
morning rise	-1870 Jul 13 j 11:27			evening set	-1864 Jun 24 j 06:30	0-9925.34	
retrograde	-1870 Oct 09 j 00:32	20° Ⅱ 15'39	0024122	. ,.	1074 1 1 10:11 52	10001101	0002105
opposition	-1870 Dec 25 j 05:37	18° Ⅱ 52'42		conjunction	-1864 Jul 10 j 11:52	1°901'21	0°03'05
min. Earth dist.	-1870 Dec 25 j 18:34		29.08122 AU	minimum elong	-1864 Jul 10 j 11:52	1° © 01'21	0°03'07
direct	-1869 Mar 14 j 22:13	17° Ⅱ 27'22		behind sun begin	-1864 Jul 10 j 05:20	1°500'46	
evening set	-1869 Jun 13 j 12:38	19° Ⅱ 23'16		behind sun end	-1864 Jul 10 j 18:24	1° © 01'55	
				max. Earth dist.	-1864 Jul 09 j 16:56		31.14310 AU
conjunction	-1869 Jun 29 j 19:40	19° Ⅱ 59'11		morning rise	-1864 Jul 26 j 13:50	1°536'52	
minimum elong	-1869 Jun 29 j 19:40	19° Ⅱ 59'11	0°20'27	retrograde	-1864 Oct 21 j 17:17	3° 5 29'22	
max. Earth dist.	-1869 Jun 29 j 03:49		31.08639 AU	opposition	-1863 Jan 06 j 19:05	2° © 06'58	
morning rise	-1869 Jul 15 j 23:57	20° Ⅱ 34'54		min. Earth dist.	-1863 Jan 07 j 13:02	2° © 05'42	29.14791 AU
retrograde	-1869 Oct 11 j 09:57	22° Ⅲ 27′50		direct	-1863 Mar 27 j 23:53	0°9541'44	
opposition	-1869 Dec 27 j 15:49	21° Ⅱ 04'58	-0°19'25	evening set	-1863 Jun 26 j 19:36	2° 5 37'58	
min. Earth dist.	-1869 Dec 28 j 06:09	21° II 03'58	29.09220 AU	max. Earth dist.	-1863 Jul 12 j 03:37	3° © 11'47	31.15209 AU

Planetary Pheno	omena of Neptune f	from -1900	through -1398	B (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 4
Attention, astronom	nical year style is used: Th	e year -1863	in astronomical co	ounting style is the year	1864 BCE in historical c	counting style.	
conjunction	-1863 Jul 13 j 00:21	3°513'42	0°07'46	retrograde	-1857 Nov 06 j 14:13	18°950'45	
minimum elong	-1863 Jul 13 j 00:21	3°513'42	0°07'48	opposition	-1856 Jan 22 j 19:37	17°528'34	0°40'06
behind sun begin	-1863 Jul 12 j 18:27	3° © 13'11		min. Earth dist.	-1856 Jan 23 j 16:07	17° © 27'09	29.20381 AU
behind sun end	-1863 Jul 13 j 06:14	3°514'14		direct	-1856 Apr 12 j 11:04	16° © 03'12	
morning rise	-1863 Jul 29 j 01:58	3°5649'11		evening set	-1856 Jul 12 j 11:43	17°959'27	
retrograde	-1863 Oct 24 j 04:30	5°9341'34		evening sec	1000 041 12) 11.15	1, 00,2,	
opposition	-1862 Jan 09 j 05:23	4°9519'13	0°10'42	conjunction	-1856 Jul 28 j 12:56	18° © 34'54	0°39'48
min. Earth dist.	-1862 Jan 09 j 23:13		29.15640 AU	minimum elong	-1856 Jul 28 j 12:56	18°934'54	0°39'50
direct	-1862 Mar 30 j 12:17	2°953'58	27.13040710	max. Earth dist.	-1856 Jul 27 j 13:35		31.20860 AU
evening set	-1862 Jun 29 j 08:28	4° 9 50'11		morning rise	-1856 Aug 13 j 10:36	19°9510'03	31.20000710
evening set	-1002 Juli 29 J 00.20	4 303011		C	-1856 Nov 08 j 02:30		
	10/2 1 1 15:12.55	506025154	0012127	retrograde		21°901'51	0044140
conjunction	-1862 Jul 15 j 12:55	5°525'54		opposition	-1855 Jan 24 j 06:06	19°539'44	
minimum elong	-1862 Jul 15 j 12:55	5° © 25'54	0°12'27	min. Earth dist.	-1855 Jan 25 j 02:24		29.21431 AU
behind sun begin	-1862 Jul 15 j 08:43	5°925'32		direct	-1855 Apr 14 j 22:59	18°5514'24	
behind sun end	-1862 Jul 15 j 17:07	5° © 26'17		evening set	-1855 Jul 14 j 23:49	20°510'43	
max. Earth dist.	-1862 Jul 14 j 16:17	5° © 24'00	31.16004 AU	max. Earth dist.	-1855 Jul 30 j 02:13	20°5544'03	31.21927 AU
morning rise	-1862 Jul 31 j 13:52	6° © 01'20					
retrograde	-1862 Oct 26 j 13:49	7° © 53'37		conjunction	-1855 Jul 31 j 00:37	20°5546'08	0°44'12
opposition	-1861 Jan 11 j 15:47	6° © 31'17	0°15'41	minimum elong	-1855 Jul 31 j 00:36	20°9546'08	0°44'14
min. Earth dist.	-1861 Jan 12 j 11:13	6° © 29'56	29.16402 AU	morning rise	-1855 Aug 15 j 21:29	21° © 21'14	
direct	-1861 Apr 01 j 23:42	5°906'00		retrograde	-1855 Nov 10 j 11:51	23°513'01	
evening set	-1861 Jul 01 j 21:17	7° © 02'13		opposition	-1854 Jan 26 j 16:45	21°950'59	0°49'29
max. Earth dist.	-1861 Jul 17 j 03:24	7°\$35'53	31.16742 AU	min. Earth dist.	-1854 Jan 27 j 14:02	21°\$49'31	29.22508 AU
				direct	-1854 Apr 17 j 11:18	20°525'43	
conjunction	-1861 Jul 18 j 01:13	7° © 37'54	0°17'05	evening set	-1854 Jul 17 j 12:08	22°522'05	
minimum elong	-1861 Jul 18 j 01:13	7°937'54		evening set	1054 Jul 17 J 12:00	22 322 03	
morning rise	-1861 Aug 03 j 01:47	8°9313'17	0 17 08	conjunction	-1854 Aug 02 j 12:10	22° © 57'27	0°48'32
-					• •		
retrograde	-1861 Oct 29 j 00:03	10°505'26	0020120	minimum elong	-1854 Aug 02 j 12:10	22°957'27	0°48'34
opposition	-1860 Jan 14 j 02:03	8°543'08		max. Earth dist.	-1854 Aug 01 j 12:31		31.23001 AU
min. Earth dist.	-1860 Jan 14 j 21:03		29.17112 AU	morning rise	-1854 Aug 18 j 08:35	23° © 32'30	
direct	-1860 Apr 03 j 11:54	7° © 17'49		retrograde	-1854 Nov 12 j 23:31	25°524'16	
evening set	-1860 Jul 03 j 10:01	9° © 14'01		opposition	-1853 Jan 29 j 03:13	24°502'20	0°54'05
				min. Earth dist.	-1853 Jan 30 j 00:04		29.23566 AU
conjunction	-1860 Jul 19 j 13:28	9° 5 39'39	0°21'42	direct	-1853 Apr 19 j 23:24	22° © 37'07	
minimum elong	-1860 Jul 19 j 13:28	9° 5 49'39	0°21'44	evening set	-1853 Jul 20 j 00:18	24° © 33'31	
max. Earth dist.	-1860 Jul 18 j 15:18	9° 5 47'36	31.17434 AU				
morning rise	-1860 Aug 04 j 13:24	10°\$25'00		conjunction	-1853 Aug 04 j 23:52	25° © 08'52	0°52'48
retrograde	-1860 Oct 30 j 08:19	12° © 17'03		minimum elong	-1853 Aug 04 j 23:52	25°©08'52	0°52'50
opposition	-1859 Jan 15 j 12:26	10°954'46	0°25'35	max. Earth dist.	-1853 Aug 04 j 00:36		31.24007 AU
min. Earth dist.	-1859 Jan 16 j 08:47		29.17820 AU	morning rise	-1853 Aug 20 j 19:31	25°5643'52	
direct	-1859 Apr 05 j 23:02	9° 5 29'24		retrograde	-1853 Nov 15 j 09:28	27°535'38	
evening set	-1859 Jul 05 j 22:35	11°525'36		opposition	-1852 Jan 31 j 14:04	26°513'46	0°58'36
max. Earth dist.	-1859 Jul 21 j 03:22		31.18162 AU	min. Earth dist.	-1852 Feb 01 j 12:22		29.24527 AU
max. Lartii dist.	-1037 Jul 21 J 03.22	11 35700	31.10102 AC	direct	-1852 Apr 21 j 10:58	24°948'36	2).24321 AO
conjunction	-1859 Jul 22 j 01:33	12° © 01'11	0026110			26°945'03	
3	3			evening set	-1852 Jul 21 j 12:33		21 24004 411
minimum elong	-1859 Jul 22 j 01:33	12°501'11	0°26'20	max. Earth dist.	-1852 Aug 05 j 11:07	18'05 عد 12	31.24904 AU
morning rise	-1859 Aug 07 j 00:55	12°536'28			1050 4 06:11.00	270520122	0056150
retrograde	-1859 Nov 01 j 17:51	14°528'26		conjunction	-1852 Aug 06 j 11:23	27°520'20	
opposition	-1858 Jan 17 j 22:51	13°506'10		minimum elong	-1852 Aug 06 j 11:22	27°520'20	0°57'00
min. Earth dist.	-1858 Jan 18 j 18:45		29.18575 AU	morning rise	-1852 Aug 22 j 06:28	27° © 55'18	
direct	-1858 Apr 08 j 11:31	11° © 40'46		retrograde	-1852 Nov 16 j 19:53	29°5547'02	
evening set	-1858 Jul 08 j 10:56	13° © 36'58		opposition	-1851 Feb 02 j 00:49	28° © 25'15	1°03'01
				min. Earth dist.	-1851 Feb 02 j 22:35		29.25356 AU
conjunction	-1858 Jul 24 j 13:18	14° © 12'31	0°30'51	direct	-1851 Apr 23 j 23:17	27° © 00'06	
minimum elong	-1858 Jul 24 j 13:17	14° © 12'31	0°30'52	evening set	-1851 Jul 24 j 00:42	28° © 56'34	
max. Earth dist.	-1858 Jul 23 j 14:26	14°510'24	31.18953 AU				
morning rise	-1858 Aug 09 j 12:07	14° © 47'46		conjunction	-1851 Aug 08 j 22:55	29° © 31'49	1°01'05
retrograde	-1858 Nov 04 j 04:19	16° © 39'39		minimum elong	-1851 Aug 08 j 22:55	29° © 31'49	1°01'07
opposition	-1857 Jan 20 j 09:17	15° © 17'24	0°35'18	max. Earth dist.	-1851 Aug 07 j 22:15		31.25653 AU
min. Earth dist.	-1857 Jan 21 j 05:40		29.19431 AU		-1851 Aug 21 j 15:20	0°Ω	
direct	-1857 Apr 10 j 21:47	13°S52'00		morning rise	-1851 Aug 24 j 17:17	0° Ω 06'44	
evening set	-1857 Jul 10 j 23:16	15° © 48'14		retrograde	-1851 Nov 19 j 04:39	1° £ 58′28	
max. Earth dist.	-1857 Jul 26 j 03:05		31.19858 AU	opposition	-1850 Feb 04 j 11:48	0° Ω 36'43	1°07'21
max. Earm alst.	-105/Jul 20 J U5:U5	10 202140	31.17030 AU				
	1057 1 1 27:01 12	1/00000140	0025121	min. Earth dist.	-1850 Feb 05 j 10:52		29.26051 AU
conjunction	-1857 Jul 27 j 01:12	16°523'43		1.	-1850 Feb 27 j 09:51	30°R≌	
minimum elong	-1857 Jul 27 j 01:12	16°523'43	0~35'23	direct	-1850 Apr 26 j 10:02	29° © 11'35	
morning rise	-1857 Aug 11 j 23:20	16° © 58'55			-1850 Jun 21 j 12:33	0 ° Ω	

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1850 in astronomical counting style is the year 1851 BCE in historical counting style. -1850 Jul 26 j 12:33 1°Ω08'03 -1844 Aug 29 i 03:06 15°Ω evening set 1°**Ω**40'57 31.26276 AU -1850 Aug 10 j 09:25 -1844 Sep 08 j 17:18 15°**Ω**23'26 max. Earth dist. morning rise 17°**Ω**15′05 -1844 Dec 04 j 03:58 retrograde 1°Ω43'15 1°05'05 -1843 Feb 19 j 16:24 -1850 Aug 11 j 10:11 15°**Ω**53'19 1°34'32 conjunction opposition -1843 Feb 20 j 15:44 -1850 Aug 11 j 10:11 1°**Ω**43'15 15°**Ω**51'43 29.29241 AU minimum elong 1°05'06 min. Earth dist. -1850 Aug 27 j 03:57 morning rise 2°**Ω**18′07 -1843 Mar 26 j 16:28 15°RΩ retrograde -1850 Nov 21 j 13:55 4°**Ω**09'50 direct -1843 May 11 j 22:58 14°**Ω**28′13 2°**Ω**48'06 1°11'35 opposition -1849 Feb 06 j 22:38 -1843 Jun 25 j 22:42 15°Ω min. Earth dist. -1849 Feb 07 j 21:31 2°**Ω**46'31 29.26599 AU evening set -1843 Aug 10 j 20:59 16°**Ω**24'35 direct -1849 Apr 28 j 22:03 1°**Ω**22'58 evening set -1849 Jul 29 j 00:32 3°**Ω**19'25 conjunction -1843 Aug 26 j 13:57 16°**Ω**59'26 1°30'08 -1843 Aug 26 j 13:57 minimum elong 16°**Ω**59'26 1°30'10 conjunction -1849 Aug 13 j 21:27 3°**Ω**54'35 1°09'00 max. Earth dist. -1843 Aug 25 j 13:32 16°**Ω**57'10 31.29458 AU minimum elong -1849 Aug 13 j 21:26 3°**Ω**54'35 1°09'02 morning rise -1843 Sep 11 j 03:16 17°**Ω**33'59 max. Earth dist. -1849 Aug 12 j 19:43 3°**Ω**52'11 31.26758 AU retrograde -1843 Dec 06 j 14:04 19°**Ω**25'39 morning rise -1849 Aug 29 j 14:36 4° **Ω**29'25 opposition -1842 Feb 22 j 03:28 18°**Ω**03'56 1°37'55 retrograde -1849 Nov 24 j 00:19 $6^{\circ}\Omega 21'05$ min. Earth dist. -1842 Feb 23 j 01:34 18°**Ω**02'25 29.29880 AU opposition -1848 Feb 09 j 09:26 4°**Ω**59'21 1°15'42 -1842 May 14 j 11:29 16°**Ω**38'53 min. Earth dist. -1848 Feb 10 j 08:58 4°**Ω**57'44 29.27043 AU evening set -1842 Aug 13 j 07:58 18°**Ω**35'16 direct -1848 Apr 30 j 08:04 3°**Ω**34'13 max. Earth dist. -1842 Aug 28 j 00:11 19°**Ω**07'49 31.30098 AU evening set -1848 Jul 30 j 12:14 5°**Ω**30′39 max. Earth dist. -1848 Aug 14 i 07:39 6°Ω03'26 31.27155 AU conjunction -1842 Aug 29 j 00:21 19°Ω10'04 1°33'14 -1842 Aug 29 i 00:20 19°**Ω**10′04 1°33'15 minimum elong conjunction -1848 Aug 15 j 08:38 6°Ω05'45 1°12'48 -1842 Sep 13 j 13:01 19°**Ω**44'34 morning rise -1848 Aug 15 j 08:38 6°Ω05'45 1°12'49 retrograde -1842 Dec 08 j 23:01 21°Ω36'18 minimum elong -1848 Aug 31 j 01:03 6°Ω40'32 -1841 Feb 24 j 14:44 morning rise opposition 20°Ω14'37 1°41'09 -1848 Nov 25 j 09:46 8°**£**32′11 -1841 Feb 25 j 13:37 20°**Ω**13'03 29.30525 AU retrograde min. Earth dist. opposition -1847 Feb 10 j 20:24 7°**Ω**10'27 1°19'43 direct -1841 May 16 j 21:56 18°**Ω**49'38 min. Earth dist. -1847 Feb 11 j 20:07 7°**Ω**08'49 29.27408 AU -1841 Aug 15 j 19:04 20°**Ω**46′00 evening set 5°**Ω**45'18 -1841 Aug 30 j 11:06 21°**Ω**18'33 31.30716 AU -1847 May 02 j 21:42 max. Earth dist. direct -1847 Aug 01 j 23:47 7°**Ω**41'42 evening set -1841 Aug 31 j 10:48 21°Ω20'46 1°36'11 conjunction -1841 Aug 31 j 10:48 -1847 Aug 17 j 19:21 8°**Ω**16'45 1°16'30 21°**Ω**20'46 1°36'13 conjunction minimum elong -1847 Aug 17 j 19:21 8°Ω16'45 1°16'32 -1841 Sep 15 j 22:50 21°Ω55'13 minimum elong morning rise -1847 Aug 16 j 17:21 8°**Ω**14'20 31.27504 AU -1841 Dec 11 j 08:14 23°**Ω**46′59 max. Earth dist. retrograde $8^{\circ}\Omega51'29$ -1847 Sep 02 j 11:16 -1840 Feb 27 j 01:56 22°**Ω**25'21 1°44'14 morning rise opposition 22°**Ω**23'49 29.31102 AU retrograde -1847 Nov 27 j 21:32 10°**Ω**43'07 min. Earth dist. -1840 Feb 28 j 00:19 -1846 Feb 13 j 07:20 9°**Ω**21'21 1°23'37 direct -1840 May 18 j 09:54 21°**Ω**00′25 opposition min. Earth dist. -1846 Feb 14 j 06:34 9°**Ω**19'45 29.27772 AU -1840 Aug 17 j 06:13 22°**Ω**56'47 evening set -1846 May 05 j 09:38 7°**Ω**56'11 direct -1846 Aug 04 j 11:08 9°**Ω**52'35 conjunction -1840 Sep 01 j 21:12 23°**Ω**31'30 1°39'01 evening set -1846 Aug 19 j 05:29 10°**Ω**25'16 31.27874 AU -1840 Sep 01 j 21:12 23°Ω31'30 1°39'01 max. Earth dist. minimum elong -1840 Aug 31 j 20:53 23°Ω29'14 31.31242 AU max. Earth dist. -1846 Aug 20 j 06:13 10°**Ω**27'34 1°20'05 -1840 Sep 17 j 08:40 24°**Ω**05'55 conjunction morning rise -1846 Aug 20 j 06:12 10°**Q**27'34 1°20'06 -1840 Dec 12 j 18:59 $25^{\circ}\Omega$ 57'44 minimum elong retrograde -1846 Sep 04 i 21:19 -1839 Feb 28 i 13:25 $24^{\circ}\Omega$ 36'07 $1^{\circ}47'11$ morning rise 11°Ω02'15 opposition retrograde -1846 Nov 30 i 06:17 12°**Ω**53'53 min. Earth dist. -1839 Mar 01 j 12:02 24°Ω34'34 29.31589 AU opposition -1845 Feb 15 i 18:16 11°Ω32'06 1°27'23 direct -1839 May 20 i 19:52 23°Ω11'13 min. Earth dist. -1845 Feb 16 i 18:06 11°Ω30'28 29.28175 AU evening set -1839 Aug 19 j 17:03 25°**Ω**07'34 -1845 May 07 j 21:38 10°Ω06'56 max. Earth dist. -1839 Sep 03 j 08:12 $25^{\circ}\Omega 40'04$ 31.31657 AU direct -1845 Aug 06 j 22:34 12°**Ω**03′18 evening set -1839 Sep 04 j 07:31 25°Ω42'15 1°41'41 conjunction -1845 Aug 22 j 16:50 12°Ω38'15 1°23'34 -1839 Sep 04 j 07:31 25°**Ω**42'15 1°41'43 conjunction minimum elong -1839 Sep 19 j 18:17 minimum elong -1845 Aug 22 j 16:49 12°Ω38'15 1°23'36 morning rise 26°**Ω**16'38 -1845 Aug 21 j 15:24 max. Earth dist. 12°**Ω**35'53 31.28316 AU retrograde -1839 Dec 15 j 04:09 28°Ω08'30 -1845 Sep 07 j 07:28 13°**Ω**12'53 opposition -1838 Mar 03 j 00:58 26°**Ω**46'52 1°49'58 morning rise -1845 Nov 16 j 12:42 15°€ min. Earth dist. -1838 Mar 03 j 23:42 26°**Ω**45'19 29.31933 AU -1845 Dec 02 j 17:52 15°**Ω**04'30 25°**Ω**22'01 retrograde direct -1838 May 23 j 08:39 15°RΩ -1845 Dec 19 j 00:33 evening set -1838 Aug 22 j 04:05 27°**Ω**18′20 13°**Ω**42'44 1°31'02 opposition -1844 Feb 18 j 05:13 min. Earth dist. -1844 Feb 19 j 03:52 13°**Ω**41'10 29.28665 AU conjunction -1838 Sep 06 j 17:46 27°**Ω**52'59 1°44'13 -1844 May 09 j 10:40 12°**Ω**17'35 minimum elong -1838 Sep 06 j 17:45 27°**Ω**52'59 1°44'14 direct evening set -1844 Aug 08 j 09:45 14°**Ω**13'57 max. Earth dist. -1838 Sep 05 j 17:20 27°**Ω**50'42 31.31930 AU max. Earth dist. -1844 Aug 23 j 03:10 14°**Ω**46'35 31.28841 AU morning rise -1838 Sep 22 j 04:06 28°**Ω**27'19 -1838 Nov 13 j 23:53 0° M -1844 Aug 24 j 03:28 14°**Ω**48'51 1°26'55 -1838 Dec 17 j 15:50 0° m 19'14 conjunction retrograde -1844 Aug 24 j 03:28 14°**Ω**48'51 1°26'56 -1837 Jan 21 j 04:27 30°RΩ minimum elong

min rath disk 4837 May 26 jul 30 282 22-02 22 29 22-10 22 min rath officed 4831 Sap 26 jul 32 38 3 Sap 26 jul 32	•	omena of Neptune 1		-				page 6
min familiars 4387 May 29 jul 322 279/2292 279/2292 centing of centing of sales and s			-					
diecet -1837 May 24 jul 29 279,2245 (2) max. Familatid -1831 Cott 6 jul 22 jul 378 (3) 29/1250 (2) 1380 (2) 13					•		-	
evening (a) - [837 Agu 24] + [85] 29/22/92 max Farth side - [8387 Agu 67] 6144 69/1272 3 (2000 Agu 67) corposation - [830 Agu 67] 6136 579 Agu 77 2000 Agu 77		•		29.32146 AU	-			
1837 s.c. p. 07 j. 1831 s.c. p. 07 j. 1832 s.c. p. 07 j. 1833 s.c. p. 07 j. 07								31.32134 AU
max Farth dist. 1837 Sep. 09 10444 0° m0 127 31 3063 AU opposition 1-830 Maz 21 21:55 14 90/055 29-20 20-20 conjunction 1-837 Sep. 09 10447 0° m0 70 338 14/36 direct 1-830 Maz 21 11-15 16 70 44/17 20-20 12 70 44/17 20-20 1-830 Sep. 09 10450 27 96 44/17 20-20 12 70 98/33 30 42 2-14 11	evening set	• •			•		-	
1837 Sep 09)04.07 0P0078 14036 direct 1830 Jun 10]16 1279 1790836 23.0 23.					-	,		
conjunction 1837 Sep (0) 10407 0° (0) 1070 (1	max. Earth dist.	-1837 Sep 08 j 04:44	0°m,01'27	31.32063 AU		,		
minime dom 1837 Sep 0 91 0407 0° m0238 1948 Sep 0 91 045 1839 Sep 2 31 045 1874 118 37 Sep 2 41 1345 0° m238 1839 Sep 2 31 045 1831 Sep 2 31 045 1831 Sep 2 31 045 31 31 32 32 32 32 32 32 3 3 3 3 3 3 3 3						,		29.32396 AU
moming rise 1837 Sep 24 1345 5 (**) 2755 5 (**	•		-				-	
Page	•			1°46'38	•		-	
opposition in. Earth dist. -1836 Mar 20 (2) 2302 1*PB06713 1*S9004 conjunction minimation of 1830 Sep 24 (1) 01.1 1*S19536 1*S1556 1*S1556 1*S1556 1*S156 1*S1556 1*S156 1*S1576 0**C111 1*S156 1*S1576 0**C111 1*S156 1*S156 1*S1576 0**C111 0**C111 0**C111 0**C111 0**C111 0**C111 <t< td=""><td>-</td><td></td><td>•</td><td></td><td>max. Earth dist.</td><td>-1830 Sep 23 j 04:56</td><td>15° m 13'48</td><td>31.32370 AU</td></t<>	-		•		max. Earth dist.	-1830 Sep 23 j 04:56	15° m 13'48	31.32370 AU
			-					
1.836 Apr 24 ji 0.33 0.98		•						
direct 1.836 May 27 j0 728 20° J47424 certograde 1.829 Mar 32 j0 9-20 17° H2407 20° certograde -1829 Mar 23 j0 9-20 16° h1900 20° J0 10	min. Earth dist.	•		29.32214 AU	Č			1°58'52
1815 Am 28 j 15-17 0°By					-	•		
evening set	direct				C	,	17° Mp 42′07	
conjunction 1836 Sep 10 j 1406 2°pil 4'll 194850 evening set 1829 Sep 1 j 10 ll 16°m 5'l's max. Farth dist. 1836 Sep 0 j 1406 2°pil 4'll 194851 evening set 1829 Sep 1 j 10 ll 16°m 5'l's max. Farth dist. 1836 Sep 0 j 1406 2°pil 4'll 194851 evening set 1836 Sep 0 j 1406 2°pil 4'll 194851 evening set 1836 Sep 0 j 120 2°pil 4'll 194851 evening set 1836 Sep 0 j 120 2°pil 4'll 194851 evening set 1836 Sep 0 j 120 2°pil 4'll 194851 evening set 1836 Sep 0 j 120 2°pil 4'll 194851 evening set 1829 Sep 2 6 j 09.30 17°m 20'll 1958 evening set 1835 Sep 1 j 10 ll 1953 evening set 1835 Sep 1 j 10 ll 1953 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 5'34 evening set 1835 Sep 1 j 10 ll 19°p 6'p 5'9 evening set 1835 Sep 1 j 10 ll 19°p 6'p 5'9 evening set 1835 Sep 1 j 10 ll 19°p 6'p 5'9 evening set 1835 Sep 1 j 10 ll 19°p 6'p 5'9 evening set 1835 Sep 1 j 10 ll 19°p 6'p 6'p 6'p 5'9 10 evening set 1835 Sep 1 j 10 ll 19°p 6'p 6'p 6'p 6'p 6'p 6'p 6'p 6'p 6'p 6'		·			* *			
Conjunction 1836 Sep 10 1400 2°m 1411 1°4850	evening set	-1836 Aug 26 j 01:38	1° Mp 39'38		min. Earth dist.	,		29.32639 AU
minimum elong 4.1836 Sep 10 j 14 03 2°ml 14°l 1°48′51 "ending fise -1836 Sep 25 j 23:20 2°ml 14°l 1836 Sep 25 j 23:20 2°ml 18°l 3.330°9 AU conjunction -1820 Sep 26 j 0:93 1°m 200 l 1°55 morning rise -1820 Sep 26 j 0:93 1°m 200 l 1°55 1°55 morning rise -1820 Sep 26 j 0:93 1°m 200 l 1°55 1°50					direct	-1829 Jun 12 j 18:34		
max Earth dist. -1836 Sep 09 j 1403 2°9 h 150 31,32079 AU conjunction -1820 Sep 26 j 09:39 1°7 mp2001 1°55 retrotgrade -1836 Sep 25 j 23:20 2°9 h 487 max Earth dist. -1829 Sep 26 j 09:39 1°7 mp2001 1°55 opposition -1835 Mar 09 j 11:31 3°9 l 1741 1°8 70 morning rise -1820 Aut 1 j 15:40 187 mp0 19 mp100 20 3°9 l 1741 2°9 2318 AU retrograde -1825 Mar 0 j 10:30 1°9 mp20210 1°9 mp20210 1°9 mp20210 1°9 mp20210 1°9 mp20210 1°9 mp20210 1°8 mp20213 2°9 mp20210 1°8 mp20213 1°9 mp20210 1°8 mp20213 1°9 mp20210	conjunction	-1836 Sep 10 j 14:06	2°Mp14'11	1°48'50	evening set	-1829 Sep 11 j 01:01	16° Mp 51'42	
morning rise	minimum elong	-1836 Sep 10 j 14:06	2°Mp14'11	1°48'51				
retrograde 1835 Nec 2 j 12 3 9 9 9 3 2 9 9 9 1 1 9 9 9 1 1				31.32079 AU	·		-	1°59'57
opposition 1.835 Mar 10 j 0 j 0.26 3° 19 j 1.714 2.9218 R AU retrograde 1.828 Mar 2 j 1.515.31 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 1.876 0.052.37 2.935.54 opposition -1.828 Mar 2 j 1.515.35 1.876 0.052.37 2.937 0.052.37 2.9	morning rise	-1836 Sep 25 j 23:20	2°Mp48'27		minimum elong	-1829 Sep 26 j 09:39	17° ™ 26′01	1°59'59
min. Earth dist. -1835 Mar 10 j 09-26 are direct 3*m 17! 4 29.32188 AU retrograde opposition -1828 Mar 24 j 21:37 are j 1890/304 are vening set -1828 Mar 24 j 21:37 bray j 20:33 are j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:35 are j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:35 are j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:35 are j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:30 are vening set -1828 Mar 24 j 21:37 bray j 20:30 are vening set -1828 Mar 24 j 21:30 bray j 20:30 are vening set -1828 Mar 24 j 21:30 bray j 20:30 are vening set -1828 Mar 24 j 20:30 are vening set -1828 Sep 27 j 10:11 bray j 20:30 are vening set -1828 Mar 24 j 20:41 bray j 20:30 are vening set -1828 Mar 27 j 09:50 are vening set -1828 Mar 24 j 20:41 bray j 20:30 are vening set -1828 Mar 27 j 09:50 are vening set -1828 Mar 27 j	retrograde	-1836 Dec 21 j 12:43	4° Mp 40′26		max. Earth dist.	-1829 Sep 25 j 13:53	17° ™ 24'09	31.32620 AU
direct 1.835 May 29 j 20.37 1.983542 opposition -1.828 Mar 24 j 21.37 1879048 270 evening set 1.835 Aug 28 j 12 y 10.70 3*m 5006 min. Earth dist. -1.828 Mar 25 j 15.30 18790293 29.30 econjunction -1.835 Sep 13 j 00.07 4*m 22436 1*5055 revening set -1.828 Nep 12 j 10.53 19*m 00716 morning rise -1.835 Sep 23 j 08.42 4*m 28436 1*50575 minimum olong -1.828 Sep 27 j 19.11 19*m 3633 2*00 retrograde -1.835 Sep 23 j 08.42 4*m 58950 minimum olong -1.828 Sep 27 j 19.11 19*m 3633 2*00 retrograde -1.834 Mar 12 j 21.46 5*m 20733 29.321.8 AU retrograde -1.828 Sep 27 j 19.11 19*m 3633 2*00 direct -1.834 Mar 12 j 21.46 5*m 2733 29.321.8 AU retrograde -1.827 Mar 28 j 04:11 20*m 3633 2*00 direct -1.834 Mar 12 j 11.03 6*m 2472 3.1346 AU retrograde -1.827 Mar 28 j 04:11 20*m 3633 2*00 direct -1.834 Mar 12 j 11.03 6*m 3453 <td>opposition</td> <td>-1835 Mar 09 j 11:31</td> <td>3°m 18'44</td> <td>1°57'22</td> <td>morning rise</td> <td>-1829 Oct 11 j 15:40</td> <td>18°m 00'05</td> <td></td>	opposition	-1835 Mar 09 j 11:31	3° m 18'44	1°57'22	morning rise	-1829 Oct 11 j 15:40	18° m 00'05	
evening set -1835 Aug 28 j 1 2017 3°m 50°D min Earth dist. -1828 Mar 25 j 15:35 18°m 29:35 29.35 max. Earth dist. -1835 Sep 1 2 j 01.07 4°m 22'27 31.32014 AU direct -1828 Mar 1 4 j 040 7°m 06'20 7°m 06'20	min. Earth dist.	-1835 Mar 10 j 09:26	3°Mp17'14	29.32188 AU	retrograde	-1828 Jan 06 j 10:31	19° m 52'37	
max. Earth dist. -1835 Sep 12 j 01:07 4° \$\tilde{\tilde{2}}\tilde{2}7227 31.32014 AU direct -1828 Sep 1 j 04:06 1° \$\tilde{0}\$\tilde{0}\$ conjunction -1835 Sep 13 j 00:07 4° \$\tilde{0}\$2436 1° \$\tilde{0}\$\tilde{5}\$55 19 j 00:07 4° \$\tilde{0}\$436 1° \$\tilde{0}\$\tilde{5}\$55 19 j 00:07 4° \$\tilde{0}\$\tilde{5}\$55 eonjunction -1828 Sep 27 j 19:11 19° \$\tilde{0}\$333 20° \$\tilde{0}\$ 1835 Sep 23 j 22:88 6° \$\tilde{0}\$\tilde{0}\$\tilde{0}\$ minimum clong -1828 Sep 27 j 19:11 19° \$\tilde{0}\$\tilde{3}\$ 20° \$\tilde{0}\$ 1835 Sep 23 j 22:88 6° \$\tilde{0}\$\tilde{0}\$ max. Earth dist -1828 Au 11 j 123:11 5° \$\tilde{0}\$\tilde{0}\$\tilde{0}\$ 29 \$\tilde{0}\$\tilde{0}\$ max. Earth dist -1828 Au 10 j 10:02 2° \$\tilde{0}\$\tilde{0}\$ 20° \$\tilde{0}\$	direct	-1835 May 29 j 20:37	1° Mp 53'54		opposition	-1828 Mar 24 j 21:37	18° m 30'48	2°08'38
conjunction -1828 Sep 13 j 0.007 4°m 24'36 1°50'55 -1828 Sep 27 j 19:11 1°g 03'33 2°00 minimum elong -1835 Sep 13 j 0.007 4°m 24'36 1°50'57 conjunction -1828 Sep 27 j 19:11 1°g 03'33 2°00 morning rise -1835 Sep 2 3 j 08:42 4°m 58'55	evening set	-1835 Aug 28 j 12:07	3° TO 50'06		min. Earth dist.	-1828 Mar 25 j 15:35	18° ™ 29'35	29.32885 AU
Conjunction -1835 Sep 13 j 00.07 4° m 24°36 1°50′55 1°50′57 1°30′57 1°	max. Earth dist.	-1835 Sep 12 j 01:07	4° Mp 22'27	31.32014 AU	direct	-1828 Jun 14 j 04:06	17° Mp 06′20	
minimum elong -1835 Sep 13 j 0.007 4° №2436 1°50′57 conjunction -1828 Sep 27 j 19:11 19° №3633 2°00 morning rise -1835 Sep 28 j 0.842 4° №58′50 — minimum elong -1828 Sep 27 j 10:18 19° №3633 2°00 retrograde -1834 Mar 11 j 23:11 5° №29°0 1°5930 morning rise -1828 Not 13 j 00:37 20° №1037 min. Earth dist. -1834 Mar 10 j 0.902 4° №04773 29.3218 AU retrograde -1827 Mar 27 j 0:50 20° №1027 2° 0.000 evening set -1834 Mar 10 j 0.902 4° №0477 2° 0.000 min. Earth dist. -1827 Mar 27 j 0:50 20° №127 2° 0.000 <					evening set	-1828 Sep 12 j 10:53	19°Mp02'16	
morning rise -1835 Sep 28 j 08.42 4°B788'SD minimum clong -1828 Sep 27 j 19.11 1°P 3933 2°00 retrograde -1835 Dec 23 j 22.58 6°B 960'S max. Earth dist. -1828 Sep 27 j 10.58 19°B 930 31.3 min. Earth dist. -1834 Mar 12 j 21.46 5°B 907'S 99.22118 AU retrograde -1827 Mar 27 j 00.58 22°m 907'S evening set -1834 Mar 12 j 21.46 5°B 902'S 99.2118 AU retrograde -1827 Mar 27 j 01.015 22°m 907'S 2°0 evening set -1834 Mar 12 j 10.90 6°B 945'S 31.31946 AU direct -1827 Mar 28 j 01.11 0°m 90'T 02' 29.33 econjunction -1834 Sep 15 j 09.50 6°B 345'S 1°5250 max. Earth dist. -1827 Sep 30 j 04.40 21°m 172'S 2°0 econjunction -1834 Sep 15 j 09.50 6°B 345'S 1°5250 max. Earth dist. -1827 Sep 30 j 04.40 21°m 172'S 2°0 1°2 1°2 1°2 1°2<	conjunction	-1835 Sep 13 j 00:07	4° ₩ 24'36	1°50'55				
retrograde	minimum elong	-1835 Sep 13 j 00:07	4° ₩ 24'36	1°50'57	conjunction	-1828 Sep 27 j 19:11	19° m 36'33	2°00'52
opposition -1834 Mar 1 j 23:11 5°m 2906 1°5930 morning rise -1828 Ort 1 j 0:037 20°m 10:37	morning rise	-1835 Sep 28 j 08:42	4° m 58'50		minimum elong	-1828 Sep 27 j 19:11	19° m 36'33	2°00'52
min. Earth dist.	retrograde	-1835 Dec 23 j 22:58	6° m 50'52		max. Earth dist.	-1828 Sep 27 j 00:58	19° m 34'50	31.32831 AU
direct -1834 Jun 0 j j 09.02 4°m 04'l 7 opposition -1827 Mar 2 j 09.55 0°m 04'l 27 2°05 evening set -1834 Aug 30 j 22:27 6°m 00'25 31.31946 AU min. Earth dist. -1827 Mar 2 j 04:11 2°m 07'l 20 m 02'l 29:31 max. Earth dist. -1834 Sep 15 j 09:50 6°m 34'53 1°52'50 max. Earth dist. -1827 Sep 2 j 10:07 2°m 07'l 20 m 12'l 20's 2°m 12'l 20's conjunction -1834 Sep 15 j 09:50 6°m 34'53 1°52'50 max. Earth dist. -1827 Sep 2 j 10:07 2°m 07'l 20'm 12'l 2's' retrograde -1834 Sep 15 j 09:49 6°m 34'53 1°52'50 min. Earth dist. -1827 Sep 30 j 04:40 2°m 07'l 20'm 12'l 2's' retrograde -1834 Sep 15 j 07:44 7°m 09'04 conjunction -1827 Sep 30 j 04:40 2°m 07'l 20'm 12'l 2's' opposition -1833 Mar 15 j 10'.43 7°m 39'20 2°01'28 morning rise -1826 Mar 20 j 21:52 2°m 07'l 20'm 12'l 2's' direct -1833 Mar 15 j 07'.44 7°m 39'20 2°01'8 morning rise -1826 Mar 20 j 11's 2°m 07'l 20'm 12'l 2's' evening set -1833 Mar 15 j 07'4	opposition	-1834 Mar 11 j 23:11	5° Mp 29'06	1°59'30	morning rise	-1828 Oct 13 j 00:37	20° m 10'37	
evening set -1834 Aug 30 j 22:27 6° mov2s min. Earth dist. -1827 Mar 28 j 0:11 20° mov10 29.33 max. Earth dist. -1834 Sep 14 j 1:03 6° m3453 31.31946 AU direct -1827 Jun 16 j 15:09 9° m01709 revening set -1827 Sep 19 j 0:0° 12° m45728 31.33 conjunction -1834 Sep 15 j 0:0° 6° m3453 1°5250 max. Earth dist. -1827 Sep 30 j 0:0° 12° m45728 31.33 morning rise -1834 Sep 30 j 18:01 7° m0904 conjunction -1827 Sep 30 j 0:0° 2° 0° 12° 0°	min. Earth dist.	-1834 Mar 12 j 21:46	5° m 27'33	29.32118 AU	retrograde	-1827 Jan 07 j 20:18	22° m 03'16	
max. Earth dist. -1834 Sep 14 j 11:03 6° m 32*45 31.31946 AU evening set evening set -1827 Sep 14 j 20:58 21° m 125° m	direct	-1834 Jun 01 j 09:02	4° m 04'17		opposition	-1827 Mar 27 j 09:50	20° m 41'27	2°09'31
conjunction	evening set	-1834 Aug 30 j 22:27	6° Mp 00′25		min. Earth dist.	-1827 Mar 28 j 04:11	20° m 40'12	29.33059 AU
conjunction	max. Earth dist.	-1834 Sep 14 j 11:03	6° Mp 32'45	31.31946 AU	direct	-1827 Jun 16 j 15:09	19° m 17'04	
minimum elong -1834 Sep 15 j 09:49 6°m34'53 1°52'50 conjunction -1827 Sep 30 j 04:40 21°m47'12 2°01 retrograde -1834 Sep 20 j 18:01 7°m90'04 conjunction -1827 Sep 30 j 04:40 21°m47'12 2°01 retrograde -1826 Mar 10 j 08:50 24°m1'14'00 2°10 retrograde -1826 Mar 29 j 1:55 22°m5'11 2°10 retrograde -1826 Mar 29 j 1:55 22°m5'11 2°10 retrograde -1826 Mar 29 j 1:55 22°m5'11 2°10 retrograde -1826 Mar 30 j 14:54 22°m5'11 2°10 retrograde -1826 Mar 30 j 14:54 22°m5'11 2°10 retrograde -1826 Mar 30 j 14:54 22°m5'11 2°10 retrograde -1833 Sep 17 j 19:31 8°m4'503 1°54'35 evening set -1826 Oct 02 j 14:14 23°m5'75 2°02 retrograde 23°3 retro					evening set	-1827 Sep 14 j 20:58		
minimum elong -1834 Sep 15 j 09:49 6°m34'53 1°52'50 conjunction -1827 Sep 30 j 04:40 21°m47'12 2°01 retrograde -1834 Sep 20 j 18:01 7°m90'04 conjunction -1827 Sep 30 j 04:40 21°m47'12 2°01 retrograde -1826 Mar 10 j 08:50 24°m1'14'00 2°10 retrograde -1826 Mar 29 j 1:55 22°m5'11 2°10 retrograde -1826 Mar 29 j 1:55 22°m5'11 2°10 retrograde -1826 Mar 29 j 1:55 22°m5'11 2°10 retrograde -1826 Mar 30 j 14:54 22°m5'11 2°10 retrograde -1826 Mar 30 j 14:54 22°m5'11 2°10 retrograde -1826 Mar 30 j 14:54 22°m5'11 2°10 retrograde -1833 Sep 17 j 19:31 8°m4'503 1°54'35 evening set -1826 Oct 02 j 14:14 23°m5'75 2°02 retrograde 23°3 retro	conjunction	-1834 Sep 15 j 09:50	6° TD 34'53	1°52'50	•		-	31.32965 AU
moming rise -1834 Sep 30 j 18:01 7° m09'04 conjunction -1827 Sep 30 j 04:40 21° m47'12 2°01 retrograde -1834 Dec 26 j 08:47 9° m01'09 minimum elong -1827 Sep 30 j 04:40 21° m47'12 2°01 opposition -1833 Mar 14 j 10:43 7° m39'20 2°01'28 morning rise -1826 Jan 10 j 08:50 22° m21'15 direct -1833 Jun 03 j 22:02 6° m14'32 29.32060 AU retrograde -1826 Mar 29 j 1:52 22° m52'11 2°10'28 evening set -1833 Sep 02 j 08:43 8° m10'37 "minimum elong -1826 Mar 29 j 1:52 22° m52'11 2°10'28 conjunction -1833 Sep 17 j 19:31 8° m45'03 1°54'35 evening set -1826 Mar 20 j 0:4:4 23° m57'56 2°02'02'02'11 max. Earth dist. -1833 Sep 16 j 21:15 8° m45'03 1°54'35 evening set -1826 Oct 0 j 1:4:14 23° m57'56 2°02'02'02'02'02'02'02'02'02'02'02'02'02'0	minimum elong		6° m 34'53	1°52'50				
retrograde	-		7° m) 09'04		conjunction	-1827 Sep 30 j 04:40	21° m 47'12	2°01'37
opposition -1833 Mar 14 10:43 7° m/39'20 2°01'28 morning rise -1827 Oct 15 09:53 22° m/21'15 responsition direct -1833 Mar 15 07:44 7° m/37'54 29.32060 AU retrograde -1826 Jan 10 08:50 24° m/14'00 2°10'c evening set -1833 Sep 02 08:43 8° m/10'37 min. Earth dist. -1826 Mar 29 21:52 22° m/52'11 2°10'c conjunction -1833 Sep 17 19:31 8° m/45'03 1°54'35 evening set -1826 Sep 17 06:51 23° m/23'42 1° 20° m/27'50' max. Earth dist. -1833 Sep 16 21:15 8° m/45'03 1° 54'35 evening set -1826 Sep 17 06:51 23° m/23'42 1° 20° m/23'42 max. Earth dist. -1833 Sep 16 21:15 8° m/45'03 1° 54'36 evening set -1826 Oct 02 14:14 23° m/23'42 2° 02'0' morning rise -1833 Oct 03 03:09 9° m/9'13 min. Earth dist. -1826 Oct 02 14:14 23° m/5'756 2° 02' retrograde -1832 Mar 16 19:34 9° m/49'31 2° 03'15 morning rise -1826 Oct 01 20:35	•		-					
min. Earth dist. -1833 Mar 15 j 07:44 7°m37'54 29.32060 AU retrograde -1826 Jan 10 j 08:50 24°m14'00 retrograde -1826 Mar 29 j 21:52 22°m52'11 2°10	-		7° m 39'20	2°01'28	morning rise		22° m 21'15	
direct -1833 Jun 03 j 22:02 6° th 14'32 opposition -1826 Mar 29 j 21:52 22° th 52' 11 2° 10° to 20 j 08:43 8° th 10'37 min. Earth dist. -1826 Mar 30 j 14:54 22° th 51' 10 29.32° th 10'10' 10' 10' 10' 10' 10' 10' 10' 10'					_			
evening set	direct		6° m 14'32		•			2°10'14
conjunction	evening set		8° m 10'37					
conjunction	C	1 ,	•		direct	-	21°m/27'51	
minimum elong	conjunction	-1833 Sep 17 i 19:31	8° m 45'03	1°54'35		-		
max. Earth dist. -1833 Sep 16 j 21:15 8° m/42'58 31.31907 AU conjunction -1826 Oct 02 j 14:14 23° m/57'56 2°02 morning rise retrograde -1833 Oct 03 j 03:09 9° m/19'13 minimum elong -1826 Oct 02 j 14:14 23° m/57'56 2°02 m/57'56 2°03 m/55'17 31.33	•		-		Č	, J	a · -	
morning rise	-				conjunction	-1826 Oct 02 i 14:14	23° m 57'56	2°02'11
retrograde -1833 Dec 28 j 17:44						-		
opposition -1832 Mar 15 j 22:23 9° m/49'31 2°03'15 morning rise -1826 Oct 17 j 19:01 24° m/31'57 min. Earth dist1832 Mar 16 j 19:34 9° m/48'04 29.32076 AU retrograde -1825 Jan 12 j 20:10 26° m/24'49 direct -1832 Jun 05 j 08:55 8° m/24'45 opposition -1825 Apr 01 j 10:11 25° m/02'57 2° 10 evening set -1832 Sep 03 j 18:53 10° m/20'47 min. Earth dist1825 Apr 02 j 03:53 25° m/01'45 29.33 max. Earth dist1832 Sep 18 j 08:10 10° m/53'13 31.31974 AU direct -1825 Jun 21 j 15:44 23° m/38'41 evening set -1825 Sep 19 j 16:47 25° m/34'28 conjunction -1832 Sep 19 j 05:10 10° m/55'11 1°56'11 conjunction -1825 Oct 04 j 23:42 26° m/08'40 2° 02 morning rise -1832 Oct 04 j 12:18 11° m/29'19 minimum elong -1825 Oct 04 j 23:42 26° m/08'40 2° 02 retrograde -1832 Dec 30 j 02:44 13° m/21'31 max. Earth dist1825 Oct 04 j 06:14 26° m/07'02 31.33 direct -1831 Mar 18 j 10:09 11° m/58'20 29.32186 AU retrograde -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 direct -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 opposition -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 opposition -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 opposition -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 opposition -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 opposition -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'34 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/21'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/21'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/21'43 2° 11° m/21'41 opposition -1824 Apr 02 j 22:22 27° m/21'43 2° 11° m/21'41 opposit						-		
min. Earth dist.		•		2°03'15				,
direct -1832 Jun 05 j 08:55 8° m/24'45 opposition -1825 Apr 01 j 10:11 25° m/02'57 2° 10 evening set -1832 Sep 03 j 18:53 10° m/20'47 min. Earth dist1825 Apr 02 j 03:53 25° m/01'45 29.33 max. Earth dist1832 Sep 18 j 08:10 10° m/53'13 31.31974 AU direct -1825 Jun 21 j 15:44 23° m/38'41 evening set -1825 Sep 19 j 05:10 10° m/55'11 1°56'11 conjunction -1832 Sep 19 j 05:10 10° m/55'11 1°56'11 conjunction -1832 Oct 04 j 12:18 11° m/29'19 minimum elong -1825 Oct 04 j 23:42 26° m/08'40 2° 02 retrograde -1832 Dec 30 j 02:44 13° m/21'31 max. Earth dist1825 Oct 04 j 06:14 26° m/07'02 31.33 opposition -1831 Mar 18 j 10:09 11° m/59'41 2° 04'52 morning rise -1824 Apr 02 j 22:22 27° m/31'43 2° 11° m/34'58 direct -1831 Jun 07 j 21:02 10° m/34'58 opposition -1834 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1834 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1834 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'10 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'11 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'11 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'11 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'11 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11° m/56'11 opposition -1824 Apr 02 j 22:22 27° m/56'14 o					-	-		
evening set				2).52070 AC	•	-	-	2°10'45
max. Earth dist. -1832 Sep		•						
evening set -1825 Sep 19 j 16:47 25° th 34'28 conjunction	•			31 31074 ATT			-	27.33000 AU
conjunction -1832 Sep 19 j 05:10 10° mp55'11 1°56'11 conjunction -1825 Oct 04 j 23:42 26° mp 08'40 2°02 morning rise -1832 Oct 04 j 12:18 11° mp29'19 minimum elong -1825 Oct 04 j 23:42 26° mp 08'40 2°02 retrograde -1832 Dec 30 j 02:44 13° mp21'31 max. Earth dist1825 Oct 04 j 06:14 26° mp07'02 31.32 opposition -1831 Mar 18 j 10:09 11° mp59'41 2°04'52 morning rise -1825 Oct 20 j 04:13 26° mp42'41 min. Earth dist1831 Mar 19 j 06:02 11° mp58'20 29.32186 AU retrograde -1824 Apr 02 j 22:22 27° mp13'43 2°11 opposition -1824 Apr 02 j 22:22 27° mp13'43 2°11 opposition -1824 Apr 02 j 22:22 27° mp13'43 2°11 opposition -1824 Apr 02 j 22:22 27° mp13'43 2°11 opposition opposition -1824 Apr 02 j 22:22 27° mp13'43 2°11 opposition opposition opposition -1824 Apr 02 j 22:22 27° mp13'43 2°11 opposition op	man. Darui uist.	1032 Sep 10 J 00.10	10 UJ 13	51.517/4 AU		-		
minimum elong	conjunction	_1832 San 10:05:10	10° m 55'11	1°56'11	evening set	-1023 Sep 19 J 10.4/	23 HZ3428	
morning rise -1832 Oct 04 j 12:18 11° m/29'19 minimum elong -1825 Oct 04 j 23:42 26° m/08'40 2°02' m/08'40 retrograde -1832 Dec 30 j 02:44 13° m/21'31 max. Earth dist. -1825 Oct 04 j 06:14 26° m/07'02 31.32' opposition -1831 Mar 18 j 10:09 11° m/59'41 2°04'52 morning rise -1825 Oct 20 j 04:13 26° m/42'41 min. Earth dist. -1831 Mar 19 j 06:02 11° m/58'20 29.32186 AU retrograde -1824 Jan 15 j 06:31 28° m/35'37 direct -1831 Jun 07 j 21:02 10° m/34'58 opposition -1824 Apr 02 j 22:22 27° m/13'43 2° 11			-		aaniumatian	1925 Oat 04: 22:42	260 m 00140	2002125
retrograde -1832 Dec 30 j 02:44 13° t 21'31 max. Earth dist1825 Oct 04 j 06:14 26° t 10'70'2 31.32 opposition -1831 Mar 18 j 10:09 11° t 10'59'41 2° 04'52 morning rise -1825 Oct 20 j 04:13 26° t 10'42'41 min. Earth dist1831 Mar 19 j 06:02 11° t 10'58'20 29.32186 AU retrograde -1824 Jan 15 j 06:31 28° t 10'53'37 direct -1831 Jun 07 j 21:02 10° t 10'58'20 29.32186 AU opposition -1824 Apr 02 j 22:22 27° t 10'43'3 2° 11'4 10'58'30 20'58' and 10'58' and 10'5				1 30 11	·	•		
opposition -1831 Mar 18 j 10:09 11° 1059'41 2°04'52 morning rise -1825 Oct 20 j 04:13 26° 10742'41 min. Earth dist1831 Mar 19 j 06:02 11° 1058'20 29.32186 AU retrograde -1824 Jan 15 j 06:31 28° 10735'37 direct -1831 Jun 07 j 21:02 10° 10734'58 opposition -1824 Apr 02 j 22:22 27° 10713'43 2°11	•				Č	-		
min. Earth dist1831 Mar 19 j 06:02 11° m 58'20 29.32186 AU retrograde -1824 Jan 15 j 06:31 28° m 35'37 direct -1831 Jun 07 j 21:02 10° m 34'58 opposition -1824 Apr 02 j 22:22 27° m 13'43 2°11	-			2004152				31.32843 AU
direct -1831 Jun 07 j 21:02 10° m 34'58 opposition -1824 Apr 02 j 22:22 27° m 13'43 2°11					•		-	
		•		29.32180 AU		-	-	2011105
21200 00 1071 Van 04 104.54 170 may 0150 E E					• •		-	
evening set -1831 Sep 06 j 04:54 12° Mp 30'58 min. Earth dist1824 Apr 03 j 14:40 27° Mp 12'37 29.32	evening set	-1031 Sep U0 J U4:54	12 IIJ 30'38		mm. Earth dist.	-1624 Apr U3 J 14:40	/ 12/3/ بالا 12/3	29.328/U AU

Planetary Pheno	omena of Neptune 1	from -1900	through -1398	B (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 7
Attention, astronom	nical year style is used: Th	ne year -1824	in astronomical co	unting style is the year	1825 BCE in historical c	ounting style.	
direct	-1824 Jun 23 j 04:45	25° m/49'28		minimum elong	-1818 Oct 19 j 16:06	11° ≏ 21'20	2°00'30
evening set	-1824 Sep 21 j 02:40	27° Mp 45'11		max. Earth dist.	-1818 Oct 19 j 03:58	11° ≏ 20'12	31.30377 AU
-				morning rise	-1818 Nov 03 j 19:17	11° ≏ 55'18	
conjunction	-1824 Oct 06 j 09:10	28° m 19'21	2°02'49	retrograde	-1817 Jan 30 j 06:58	13° Ω 48'52	
minimum elong	-1824 Oct 06 j 09:10	28° m 19'21	2°02'48	opposition	-1817 Apr 19 j 13:02	12° Ω 26'33	2°08'14
max. Earth dist.	-1824 Oct 05 j 15:51	28° m 17'44	31.32564 AU	min. Earth dist.	-1817 Apr 19 j 23:37	12° ≏ 25'51	29.30417 AU
morning rise	-1824 Oct 21 j 13:24	28° m 53'21		direct	-1817 Jul 09 j 13:14	11° ≏ 02'34	
C	-1824 Nov 24 j 08:43	0∘ ⊽		evening set	-1817 Oct 06 j 20:39	12° ≏ 57'41	
retrograde	-1823 Jan 16 j 16:45	0° Ω 46'22		· ·	,		
•	-1823 Mar 13 j 18:11	30°₽.₩		conjunction	-1817 Oct 22 j 01:10	13° ≏ 31'46	1°59'31
opposition	-1823 Apr 05 j 10:49	29° m 24'24	2°11'14	minimum elong	-1817 Oct 22 j 01:10	13° ≏ 31'46	1°59'31
min. Earth dist.	-1823 Apr 06 j 03:26		29.32540 AU	max. Earth dist.	-1817 Oct 21 j 14:22	13° ≗ 30'45	31.30185 AU
direct	-1823 Jun 25 j 16:35	28° m 00'10		morning rise	-1817 Nov 06 j 04:10	14° Ω 05'44	
evening set	-1823 Sep 23 j 12:13	29° m 55'46		retrograde	-1816 Feb 01 j 18:44	15° ≏ 59'27	
	-1823 Sep 25 j 10:14	0∘ ⊽		opposition	-1816 Apr 21 j 01:43	14° £ 37'07	2°07'04
		• —		min. Earth dist.	-1816 Apr 21 j 12:29		29.30229 AU
conjunction	-1823 Oct 08 j 18:28	0° £ 29'56	2°02'52	direct	-1816 Jul 11 j 00:02	13° Ω 13'14	27.50227110
minimum elong	-1823 Oct 08 j 18:28	0° £ 29'56		evening set	-1816 Oct 08 j 05:58	15° Ω 08'18	
max. Earth dist.	-1823 Oct 08 j 02:22		31.32186 AU	evening sec	1010 001 00 00.50	15 =00 10	
morning rise	-1823 Oct 23 j 22:25	1° Ω 03'55	31.32100710	conjunction	-1816 Oct 23 j 10:16	15° Ω 42'23	1°58'21
retrograde	-1822 Jan 19 j 02:11	2° £ 56'59		minimum elong	-1816 Oct 23 j 10:16	15° - 42'23	1°58'20
opposition	-1822 Apr 07 j 23:07	1° Ω 34'57	2011112	max. Earth dist.	-1816 Oct 23 j 10:10		31.29997 AU
min. Earth dist.	-1822 Apr 07 j 23:07		29.32108 AU	morning rise	-1816 Nov 07 j 13:12	16° £ 16'21	31.29997 AU
direct	-1822 Jun 28 j 06:09	0° £ 10'44	29.32108 AU	retrograde	-1815 Feb 03 j 06:01	18° ⊆ 10′21	
evening set	-1822 Sep 25 j 21:53	2° £ 06'14		opposition	-1815 Apr 23 j 14:21	16° ⊆ 47'53	2°05'44
max. Earth dist.	-1822 Oct 10 j 11:27		31.31734 AU	min. Earth dist.	-1815 Apr 23 j 23:19		29.30008 AU
max. Earth dist.	-1622 Oct 10 j 11.27	2 = 38 30	31.31/34 AU	direct	-1815 Apr 23 j 23.19 -1815 Jul 13 j 12:18	16 ≗ 47 16 15° £ 24'04	29.30008 AU
agniumation	1922 Oct. 11: 02:40	2° ≏ 40'22	2902145		•	13 ≗ 24 04 17° £ 19'06	
conjunction minimum elong	-1822 Oct 11 j 03:40	2° <u>₽</u> 40'22		evening set	-1815 Oct 10 j 15:13	1/ ==1900	
Č	-1822 Oct 11 j 03:40		2°02'44	:	1015 0-4 25 : 10-10	170 0 52111	1957100
morning rise	-1822 Oct 26 j 07:31	3° £ 14'20		conjunction	-1815 Oct 25 j 19:18	17° £ 53'11	1°57'00
retrograde	-1821 Jan 21 j 12:40	5° Ω 07'29	2010150	minimum elong	-1815 Oct 25 j 19:19	17° £ 53'11	
opposition	-1821 Apr 10 j 11:20	3° Ω 45'21	2°10'59	max. Earth dist.	-1815 Oct 25 j 09:39		31.29740 AU
min. Earth dist.	-1821 Apr 11 j 02:23		29.31656 AU	morning rise	-1815 Nov 09 j 22:16	18° £ 27'10	
direct	-1821 Jun 30 j 16:43	2° £ 21'08		retrograde	-1814 Feb 05 j 17:36	20° £ 21'11	200444
evening set	-1821 Sep 28 j 07:20	4° £ 16'32		opposition	-1814 Apr 26 j 03:12	18° £ 58'49	
				min. Earth dist.	-1814 Apr 26 j 12:20		29.29708 AU
conjunction	-1821 Oct 13 j 12:57	4° £ 50'39		direct	-1814 Jul 15 j 23:47	17° ≏ 35'06	
minimum elong	-1821 Oct 13 j 12:57	4° £ 50'39		evening set	-1814 Oct 13 j 00:33	19° ≏ 30'04	
max. Earth dist.	-1821 Oct 12 j 22:38		31.31286 AU				
morning rise	-1821 Oct 28 j 16:25	5° Ω 24'37		conjunction	-1814 Oct 28 j 04:35	20° Ω 04'09	
retrograde	-1820 Jan 23 j 21:05	7° Ω 17'50		minimum elong	-1814 Oct 28 j 04:36	20° Ω 04'09	
opposition	-1820 Apr 11 j 23:47	5° Ω 55'39		max. Earth dist.	-1814 Oct 27 j 20:15		31.29384 AU
min. Earth dist.	-1820 Apr 12 j 14:02		29.31224 AU	morning rise	-1814 Nov 12 j 07:25	20° ≏ 38'09	
direct	-1820 Jul 02 j 05:04	4° Ω 31'27		retrograde	-1813 Feb 08 j 04:12	22° △ 32'17	
evening set	-1820 Sep 29 j 16:46	6° ≏ 26'45		opposition	-1813 Apr 28 j 15:53	21° ≏ 09'54	
				min. Earth dist.	-1813 Apr 28 j 23:58		29.29273 AU
conjunction	-1820 Oct 14 j 21:53	7° Ω 00'52		direct	-1813 Jul 18 j 13:13	19° ≏ 46'16	
minimum elong	-1820 Oct 14 j 21:53	7° ≏ 00'52		evening set	-1813 Oct 15 j 10:02	21° ≏ 41'10	
max. Earth dist.	-1820 Oct 14 j 07:32		31.30896 AU				
morning rise	-1820 Oct 30 j 01:20	7° ≏ 34'49		conjunction	-1813 Oct 30 j 13:48	22° ≙ 15'15	
retrograde	-1819 Jan 25 j 08:39	9° ჲ 28'09		minimum elong	-1813 Oct 30 j 13:48	22° ≏ 15'15	
opposition	-1819 Apr 14 j 12:13	8° ഫ 05'53	2°09'59	max. Earth dist.	-1813 Oct 30 j 05:06	22° £ 14'25	31.28883 AU
min. Earth dist.	-1819 Apr 15 j 00:50	8° ഫ 05'02	29.30881 AU	morning rise	-1813 Nov 14 j 16:45	22° ≏ 49'16	
direct	-1819 Jul 04 j 14:49	6° ≏ 41'44		retrograde	-1812 Feb 10 j 15:46	24° ≏ 43'32	
evening set	-1819 Oct 02 j 02:04	8° ≏ 36'58		opposition	-1812 Apr 30 j 04:52	23° ≙ 21'06	2°00'38
				min. Earth dist.	-1812 Apr 30 j 12:32	23° ≏ 20'35	29.28701 AU
conjunction	-1819 Oct 17 j 07:06	9° 亞 11'03	2°01'20	direct	-1812 Jul 19 j 23:48	21° ≏ 57'31	
minimum elong	-1819 Oct 17 j 07:06	9° ₽ 11'03	2°01'20	evening set	-1812 Oct 16 j 19:14	23° ≏ 52'19	
max. Earth dist.	-1819 Oct 16 j 18:41	9° ჲ 09'53	31.30594 AU				
morning rise	-1819 Nov 01 j 10:15	9° ≙ 45'01		conjunction	-1812 Oct 31 j 23:04	24° ≏ 26'25	1°51'59
retrograde	-1818 Jan 27 j 18:27	11° ≏ 38'28		minimum elong	-1812 Oct 31 j 23:04	24° £ 26′25	1°51'57
opposition	-1818 Apr 17 j 00:38	10° ≙ 16′10	2°09'12	max. Earth dist.	-1812 Oct 31 j 16:01	24° £ 25'45	31.28235 AU
min. Earth dist.	-1818 Apr 17 j 13:06		29.30618 AU	morning rise	-1812 Nov 16 j 01:53	25° ჲ 00'27	
direct	-1818 Jul 07 j 01:45	8° ჲ 52'05		retrograde	-1811 Feb 12 j 00:37	26° ≏ 54'50	
evening set	-1818 Oct 04 j 11:25	10° ≏ 47'15		opposition	-1811 May 02 j 17:53	25° ≏ 32'20	1°58'35
Č	,			min. Earth dist.	-1811 May 03 j 01:04		29.27967 AU
conjunction	-1818 Oct 19 j 16:06	11° ≏ 21'20	2°00'31	direct	-1811 Jul 22 j 12:31	24° ≏ 08'46	
•	,				,		

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1811 in astronomical counting style is the year 1812 BCE in historical counting style. -1811 Oct 19 j 04:37 26°**£**03'28 max. Earth dist. -1805 Nov 16 j 14:24 9°M43'14 31.22517 AU evening set -1805 Dec 01 j 18:28 morning rise 10°M-17'27 -1811 Nov 03 j 08:14 26°**△**37'34 1°49'59 -1804 Feb 28 j 09:36 12°M12'36 retrograde conjunction 26°**△**37'34 1°49'59 -1811 Nov 03 j 08:14 -1804 May 18 j 12:12 10°M49'31 1°39'42 minimum elong opposition -1804 May 18 j 11:53 -1811 Nov 03 j 00:47 max. Earth dist. 26°**△**36'52 31.27446 AU min. Earth dist. 10°M49'33 29.22283 AU -1811 Nov 18 j 11:19 morning rise 27°**£**11'38 direct -1804 Aug 06 j 20:24 9°M26'09 retrograde -1810 Feb 14 j 12:29 29°**£**06'07 evening set -1804 Nov 02 j 19:54 11°M20'11 opposition -1810 May 05 j 06:38 27°**△**43'32 1°56'22 min. Earth dist. -1810 May 05 j 12:37 27°**£**43'07 29.27119 AU conjunction -1804 Nov 17 j 23:39 11°M54'21 1°31'47 -1804 Nov 17 j 23:39 direct -1810 Jul 24 j 22:36 26°**₽**19'58 minimum elong 11°M54'21 1°31'45 evening set -1810 Oct 21 j 13:44 28°**₽**14'34 max. Earth dist. -1804 Nov 17 j 23:29 11°M54'20 31.21906 AU morning rise -1804 Dec 03 j 03:50 12°M28'34 conjunction -1810 Nov 05 j 17:28 28°**₽**48'40 1°47'50 retrograde -1803 Mar 01 j 21:35 14°M23'52 minimum elong -1810 Nov 05 j 17:29 28°**♀**48'40 1°47'48 opposition -1803 May 21 j 01:18 13°M00'44 1°36'23 max. Earth dist. -1810 Nov 05 j 11:37 28°**♀**48'06 31.26551 AU min. Earth dist. -1803 May 21 j 00:15 13°ML00'49 29.21677 AU morning rise -1810 Nov 20 j 20:31 29°**£**22'44 direct -1803 Aug 09 j 06:38 11°M37'25 -1810 Dec 08 j 11:10 0°M evening set -1803 Nov 05 j 04:58 13°M31'24 retrograde -1809 Feb 16 j 22:17 1°M17'20 -1809 May 04 j 11:54 conjunction -1803 Nov 20 j 08:59 14°M05'35 1°28'37 opposition -1809 May 07 j 19:37 29°**♀**54'38 1°53'59 minimum elong -1803 Nov 20 j 08:59 14°ML05'35 1°28'36 min. Earth dist. -1809 May 08 j 01:35 29° **2**54'14 29.26188 AU max. Earth dist. -1803 Nov 20 j 10:45 14°M05'45 31.21291 AU direct -1809 Jul 27 i 10:17 28°**£**31'05 morning rise -1803 Dec 05 i 13:14 14°M39'50 -1809 Oct 12 j 01:21 0°M -1803 Dec 14 j 20:12 15°M evening set -1809 Oct 23 j 22:49 0°M25'33 retrograde -1802 Mar 04 j 07:21 16°M35'16 opposition -1802 May 23 j 14:14 15°M12'06 1°32'55 -1809 Nov 08 j 02:25 0°ML59'39 1°45'32 min. Earth dist. -1802 May 23 j 12:34 15°ML12'13 29.21034 AU conjunction -1809 Nov 08 j 02:25 0°ML59'39 1°45'31 -1802 May 31 j 02:15 15°RM. minimum elong -1809 Nov 07 j 21:01 0°M59'08 31.25622 AU -1802 Aug 11 j 19:27 13°M48'51 max. Earth dist. direct -1809 Nov 23 j 05:39 -1802 Oct 18 j 04:08 1°M33'45 15°M. morning rise -1808 Feb 19 j 10:28 -1802 Nov 07 j 14:16 15°M42'45 retrograde 3°M28'26 evening set -1808 May 09 j 08:29 2°ML05'38 1°51'27 opposition -1808 May 09 j 12:27 -1802 Nov 22 j 18:15 16°M16'58 1°25'19 min. Earth dist. 2°MJ05'22 29.25260 AU conjunction -1802 Nov 22 j 18:15 16°M16'58 1°25'17 -1808 Jul 28 j 21:37 0° M42'05 direct minimum elong -1808 Oct 25 j 07:53 -1802 Nov 22 j 19:46 evening set 2°M36'27 max. Earth dist. 16°M₁17'07 31.20629 AU -1802 Dec 07 j 22:54 morning rise 16°**™**51'15 -1808 Nov 09 j 11:29 3°M10'33 1°43'04 -1801 Mar 06 j 20:14 conjunction retrograde 18°**™**46'49 -1808 Nov 09 j 11:30 minimum elong 3°ML10'33 1°43'03 opposition -1801 May 26 j 03:19 17°M23'37 1°29'19 max. Earth dist. -1808 Nov 09 j 07:27 3°M10'10 31.24715 AU min. Earth dist. -1801 May 26 j 00:22 17°M23'49 29.20328 AU morning rise -1808 Nov 24 j 14:48 3° MJ44'40 direct -1801 Aug 14 j 05:56 16°M00'25 retrograde -1807 Feb 20 j 22:04 5°M39'28 evening set -1801 Nov 09 j 23:23 17°M54'15 -1807 May 11 j 21:29 4°M16'34 1°48'45 opposition -1807 May 12 j 01:19 4°M16'18 29.24394 AU -1801 Nov 25 j 03:36 18°ML28'29 1°21'53 min. Earth dist. conjunction -1807 Jul 31 j 07:36 2°M53'02 -1801 Nov 25 j 03:36 direct minimum elong 18°ML28'29 1°21'52 -1807 Oct 27 j 16:49 4°ML47'18 max. Earth dist. -1801 Nov 25 j 06:36 18°M28'46 31.19866 AU evening set -1801 Dec 10 j 08:23 morning rise 19°ML02'48 conjunction -1807 Nov 11 j 20:30 5°M21'25 1°40'28 retrograde -1800 Mar 08 i 06:30 20°M58'31 minimum elong -1807 Nov 11 j 20:30 5°M21'25 1°40'27 opposition -1800 May 27 j 16:37 19°M35'15 1°25'36 max. Earth dist. -1807 Nov 11 j 17:44 5°M21'09 31.23902 AU min. Earth dist. -1800 May 27 i 13:45 19°M35'27 29.19505 AU morning rise -1807 Nov 26 i 23:59 5°M55'33 direct -1800 Aug 15 i 17:30 18°M12'06 -1806 Feb 23 i 09:34 7°**ጤ**50'27 evening set -1800 Nov 11 j 08:45 20°ML05'51 retrograde -1806 May 14 j 10:18 6°ML27'29 1°45'53 opposition min. Earth dist. -1806 May 14 j 11:54 6°M27'22 29.23613 AU -1800 Nov 26 j 13:04 20°ML40'06 1°18'20 conjunction 5°**M**03′59 -1806 Aug 02 j 19:52 -1800 Nov 26 j 13:05 direct minimum elong 20°M-40'06 1°18'18 evening set -1806 Oct 30 j 01:53 6° M.58'10max. Earth dist. -1800 Nov 26 j 16:18 20°M40'24 31.18996 AU morning rise -1800 Dec 11 j 18:14 21°M14'27 conjunction -1806 Nov 14 j 05:31 7°M32'18 1°37'43 retrograde -1799 Mar 10 j 19:04 23°M10'17 minimum elong -1806 Nov 14 j 05:31 7°M32'18 1°37'41 opposition -1799 May 30 j 05:44 21°M46'57 1°21'44 -1806 Nov 14 j 03:17 min. Earth dist. -1799 May 30 j 01:15 21°M47'15 29.18563 AU max. Earth dist. 7°M32'05 31.23166 AU -1806 Nov 29 j 09:14 -1799 Aug 18 j 04:22 20°M23'49 morning rise 8°ML06'27 direct -1799 Nov 13 j 18:02 22°M17'29 retrograde -1805 Feb 25 j 22:04 10°ML01'29 evening set opposition -1805 May 16 j 23:12 8°MJ38'27 1°42'52 min. Earth dist. -1805 May 17 j 00:30 8°M 38'22 29.22920 AU conjunction -1799 Nov 28 j 22:34 22°M51'46 1°14'40 direct -1805 Aug 05 j 07:14 7°M15'00 minimum elong -1799 Nov 28 j 22:34 22°M51'46 1°14'39 evening set -1805 Nov 01 j 10:51 9°M09'07 max. Earth dist. -1799 Nov 29 j 02:29 22°M52'08 31.17987 AU morning rise -1799 Dec 14 j 04:03 23°M26'09 -1805 Nov 16 j 14:41 9°M43'16 1°34'49 -1798 Mar 13 j 06:53 25°M22'07 conjunction retrograde -1805 Nov 16 j 14:41 9°M43'16 1°34'49 -1798 Jun 01 j 18:59 23°ML58'41 1°17'46 minimum elong opposition

•	omena of Neptune f		•				page 9
	ical year style is used: Th	-					
min. Earth dist.	-1798 Jun 01 j 14:54		29.17493 AU	conjunction	-1792 Dec 13 j 17:02	8° ≯ 13'32	
direct	-1798 Aug 20 j 14:17	22°M35'33		minimum elong	-1792 Dec 13 j 17:02	8° ≯ 13'32	
evening set	-1798 Nov 16 j 03:15	24°M29'08		max. Earth dist.	-1792 Dec 14 j 04:21		31.10961 AU
				morning rise	-1792 Dec 29 j 01:03	8° ≯ 48'12	
conjunction	-1798 Dec 01 j 08:02	25°M03'25	1°10'54	retrograde	-1791 Mar 28 j 19:08	10° ∡ °44'58	
minimum elong	-1798 Dec 01 j 08:03	25°M03'25	1°10'52	opposition	-1791 Jun 17 j 14:33	9° х 21′02	0°47'09
max. Earth dist.	-1798 Dec 01 j 12:58	25°M03'53	31.16879 AU	min. Earth dist.	-1791 Jun 17 j 03:11	9° ∡ 121'48	29.10636 AU
morning rise	-1798 Dec 16 j 13:48	25° ™ 37'51		direct	-1791 Sep 05 j 00:13	7° ∡ ¹58'04	
retrograde	-1797 Mar 15 j 18:59	27°M33'54		evening set	-1791 Nov 30 j 20:15	9° ₹ 51'11	
opposition	-1797 Jun 04 j 08:01	26°M10′23	1°13'42				
min. Earth dist.	-1797 Jun 04 j 02:06	26° ™ 10'47	29.16337 AU	conjunction	-1791 Dec 16 j 02:47	10° ≯ 25'40	0°41'58
direct	-1797 Aug 23 j 02:42	24° M 47'14		minimum elong	-1791 Dec 16 j 02:47	10° ∡ ¹25'40	0°41'56
evening set	-1797 Nov 18 j 12:34	26° ™ 40'44		max. Earth dist.	-1791 Dec 16 j 14:42	10° ∡ ¹26'48	31.10273 AU
				morning rise	-1791 Dec 31 j 11:16	11° ≯ 00′23	
conjunction	-1797 Dec 03 j 17:26	27°M15'03	1°07'02	retrograde	-1790 Mar 31 j 07:36	12° ∡ ¹57'18	
minimum elong	-1797 Dec 03 j 17:27	27°M15'03	1°07'01	opposition	-1790 Jun 20 j 03:35	11° 渘 ³33′20	0°42'26
max. Earth dist.	-1797 Dec 03 j 22:37	27°M15'32	31.15711 AU	min. Earth dist.	-1790 Jun 19 j 14:30	11° ∡ ³34'13	29.09948 AU
morning rise	-1797 Dec 18 j 23:39	27°M49'30		direct	-1790 Sep 07 j 10:40	10° ∡ 10′25	
retrograde	-1796 Mar 17 j 08:15	29°M45'40		evening set	-1790 Dec 03 j 05:51	12° ₹ 03'30	
opposition	-1796 Jun 05 j 21:16	28°M22'02	1°09'31				
min. Earth dist.	-1796 Jun 05 j 15:12	28°M22'26	29.15176 AU	conjunction	-1790 Dec 18 j 12:35	12° ∡ ³38′02	0°37'31
direct	-1796 Aug 24 j 13:52	26°M58'53		minimum elong	-1790 Dec 18 j 12:36	12° ∡ ³38′02	0°37'28
evening set	-1796 Nov 19 j 21:37	28°M52'17		max. Earth dist.	-1790 Dec 19 j 01:17	12° ₹ 39'14	31.09573 AU
Ü	3			morning rise	-1789 Jan 02 j 21:29	13° ∡ 12'46	
conjunction	-1796 Dec 05 j 02:53	29°M26'38	1°03'05	retrograde	-1789 Apr 02 j 19:39	15° ₹ 09'50	
minimum elong	-1796 Dec 05 j 02:53	29°M26'38	1°03'02	opposition	-1789 Jun 22 j 16:49	13° ∡ °45′50	0°37'38
max. Earth dist.	-1796 Dec 05 j 10:04		31.14572 AU	min. Earth dist.	-1789 Jun 22 j 04:06		29.09236 AU
max. Earth dist.	-1796 Dec 19 j 21:15	0° ₹	31.11372110	direct	-1789 Sep 09 j 19:49	12° ₹ 22'59	27.07230710
morning rise	-1796 Dec 20 j 09:19	0° ∡ ¹01'07		evening set	-1789 Dec 05 j 15:33	14° ₹ 16'02	
retrograde	-1795 Mar 19 j 20:14	1° × 757'23		evening sec	1707 Bee 00 j 10.55	11 7 10 02	
opposition	-1795 Jun 08 j 10:21	0° ₹ 33'39	1°05'13	conjunction	-1789 Dec 20 j 22:41	14° ∡ °50'35	0°33'00
min. Earth dist.	-1795 Jun 08 j 02:38		29.14060 AU	minimum elong	-1789 Dec 20 j 22:41	14° ₹ 50'35	
iiiii. Lattii dist.	-1795 Jun 29 j 17:33	30°RM	2).14000 AC	max. Earth dist.	-1789 Dec 20 j 22:41		31.08843 AU
direct	-1795 Aug 27 j 02:57	29°M10'31		morning rise	-1788 Jan 05 j 07:55	15° ₹ 25'22	31.08643 AU
direct	-1795 Oct 21 j 07:59	0° √		retrograde	-1788 Apr 04 j 08:43	17° × 22'34	
ovening set	·	0 x ⁴ 1° x ⁷ 03'50		opposition	-1788 Apr 04 j 08:43 -1788 Jun 24 j 05:58	17 x 22 34 15° x 58'32	0022147
evening set	-1795 Nov 22 j 06:59	1 × 03 30		• •			29.08461 AU
	1705 D 07:12.10	10 720112	0050101	min. Earth dist.	-1788 Jun 23 j 15:37		29.08401 AU
conjunction	-1795 Dec 07 j 12:19 -1795 Dec 07 j 12:19	1° ∡ 738′12		direct	-1788 Sep 11 j 07:51	14° 🖈 35'42	
minimum elong	3	1°×738'12	0°59'00	evening set	-1788 Dec 07 j 01:26	16° ≯ 28'43	
max. Earth dist.	-1795 Dec 07 j 19:36		31.13506 AU		1700 D 22:00 46	170 702110	0020126
morning rise	-1795 Dec 22 j 19:17	2° x 12'44		conjunction	-1788 Dec 22 j 08:46	17°×703'18	0°28'26
retrograde	-1794 Mar 22 j 08:36	4° ∡ °09'07		minimum elong	-1788 Dec 22 j 08:46	17° ∡ 03'18	0°28'24
opposition	-1794 Jun 10 j 23:17	2°×745'18	1°00'50	max. Earth dist.	-1788 Dec 22 j 22:16		31.08017 AU
min. Earth dist.	-1794 Jun 10 j 14:45		29.13052 AU	morning rise	-1787 Jan 06 j 18:34	17° ∡ 38'07	
direct	-1794 Aug 29 j 13:06	1° ∡ 722'11		retrograde	-1787 Apr 06 j 22:44	19° ∡ ³35′27	
evening set	-1794 Nov 24 j 16:11	3° ∡ 15'27		opposition	-1787 Jun 26 j 19:18	18° ∡ 11'21 −	
				min. Earth dist.	-1787 Jun 26 j 05:19		29.07582 AU
conjunction	-1794 Dec 09 j 21:56	3° , 7⁴49'51	0°54'53	direct	-1787 Sep 13 j 18:10	16° ≯ 48'32	
minimum elong	-1794 Dec 09 j 21:56	3° ∡ 149'51	0°54'50	evening set	-1787 Dec 09 j 11:22	18° ≯ 41'30	
max. Earth dist.	-1794 Dec 10 j 07:21		31.12551 AU				
morning rise	-1794 Dec 25 j 05:06	4° ∡ °24'25		conjunction	-1787 Dec 24 j 19:12	19° ⊀ 16′06	0°23'50
retrograde	-1793 Mar 24 j 19:09	6° ∡ 120′54		minimum elong	-1787 Dec 24 j 19:12	19° ∡ 16′06	0°23'49
opposition	-1793 Jun 13 j 12:22	4° ₹ 57'03	0°56'22	max. Earth dist.	-1787 Dec 25 j 10:05	19° ∡ 17'31	31.07074 AU
min. Earth dist.	-1793 Jun 13 j 02:46	4° ₰ 757'42	29.12146 AU	morning rise	-1786 Jan 09 j 05:16	19° ∡ ¹50'58	
direct	-1793 Sep 01 j 02:15	3° ҂ 33'58		retrograde	-1786 Apr 09 j 11:14	21° ∡ °48′23	
evening set	-1793 Nov 27 j 01:27	5° х 27′10		opposition	-1786 Jun 29 j 08:18	20° х 24′13	0°22'56
				min. Earth dist.	-1786 Jun 28 j 17:18	20° х 25′14	29.06566 AU
conjunction	-1793 Dec 12 j 07:19	6° ∡ 01'36	0°50'39	direct	-1786 Sep 16 j 06:33	19° ∡ 01'23	
minimum elong	-1793 Dec 12 j 07:19	6° ∡ °01'36	0°50'38	evening set	-1786 Dec 11 j 21:27	20° ∡ ′54′18	
max. Earth dist.	-1793 Dec 12 j 16:55	6° х 02′31	31.11714 AU		-		
morning rise	-1793 Dec 27 j 15:01	6° ∡ ³36'13		conjunction	-1786 Dec 27 j 05:27	21° х ⁴28'56	0°19'12
retrograde	-1792 Mar 26 j 08:54	8° ∡ ³32'51		minimum elong	-1786 Dec 27 j 05:27	21° ₹ '28'56	0°19'10
opposition	-1792 Jun 15 j 01:28	7° ∡ ¹08'56	0°51'48	max. Earth dist.	-1786 Dec 27 j 19:47		31.06008 AU
min. Earth dist.	-1792 Jun 14 j 14:15		29.11357 AU	morning rise	-1785 Jan 11 j 16:08	22° ₹ 03'50	
direct	-1792 Sep 02 j 13:00	5° ∡ ¹45'55		retrograde	-1785 Apr 12 j 00:52	24° ₹ 01'20	
evening set	-1792 Nov 28 j 10:48	7° ∡ ³39'04		opposition	-1785 Jul 01 j 21:32	22° ∡ ³37'04	0°17'58
S				min. Earth dist.	-1785 Jul 01 j 06:20		29.05456 AU

Planetary Pheno	omena of Neptune f	From -1900	through -1398	(III) Astrodiens	et A.G. 18-Feb-2025	14.23	page 10
•	ical year style is used: Th		_	· //			page 10
direct	-1785 Sep 18 j 17:18	-	in astronomical co	conjunction	-1779 Jan 08 j 20:08	.ounting style. 4° ප 45'13	-0°09'05
evening set	-1785 Dec 14 j 07:16	23°×1413		minimum elong	-1779 Jan 08 j 20:08	4°₹45′13	
evening set	-1/63 Dec 14 J 07.10	23 × 0/02		behind sun begin	-1779 Jan 08 j 14:39	4° 3 44'44	0 0908
agniumation	1795 Dec. 20 i 15:46	23° х 41'43	0°14'32	behind sun end		4°₹45'43	
conjunction	-1785 Dec 29 j 15:46				-1779 Jan 09 j 01:37		20 00012 411
minimum elong	-1785 Dec 29 j 15:46	23° x 41'43	0°14'31	max. Earth dist.	-1779 Jan 09 j 16:06		30.99813 AU
behind sun begin	-1785 Dec 29 j 12:49	23° х 41'26		morning rise	-1779 Jan 24 j 09:27	5°る20'21	
behind sun end	-1785 Dec 29 j 18:43	23° х 41'59	21 04060 477	retrograde	-1779 Apr 25 j 03:07	7°る18'23	20.00460.444
max. Earth dist.	-1785 Dec 30 j 07:47		31.04860 AU	min. Earth dist.	-1779 Jul 14 j 07:03		28.99460 AU
morning rise	-1784 Jan 14 j 02:46	24° ₹ 16'39		opposition	-1779 Jul 15 j 03:20	5° ප 53'41	-0°12'13
retrograde	-1784 Apr 13 j 12:55	26° ₹ 14'13		direct	-1779 Oct 01 j 14:38	4° る 30'47	
opposition	-1784 Jul 03 j 10:40	24° ∡ °49′50		evening set	-1779 Dec 26 j 20:19	6° る 23'25	
min. Earth dist.	-1784 Jul 02 j 18:55		29.04283 AU				
direct	-1784 Sep 20 j 07:01	23° ∡ ¹26'57		conjunction	-1778 Jan 11 j 06:52	6° る 58'16	-0°13'46
evening set	-1784 Dec 15 j 17:20	25° ∡ 19'43		minimum elong	-1778 Jan 11 j 06:51	6° る 58'16	0°13'48
				behind sun begin	-1778 Jan 11 j 03:23	6° る 57'57	
conjunction	-1784 Dec 31 j 02:05	25° ₹ 54'25	0°09'52	behind sun end	-1778 Jan 11 j 10:19	6° る 58'35	
minimum elong	-1784 Dec 31 j 02:05	25° ∡ 54'25	0°09'49	max. Earth dist.	-1778 Jan 12 j 02:42	7° る 00'08	30.99083 AU
behind sun begin	-1784 Dec 30 i 20:49	25° ₹ '53'56		morning rise	-1778 Jan 26 j 20:45	7° る 33'26	
behind sun end	-1784 Dec 31 i 07:21	25° ₹ '54'53		retrograde	-1778 Apr 27 j 16:46	9° ට 31'35	
max. Earth dist.	-1784 Dec 31 j 17:57		31.03695 AU	opposition	-1778 Jul 17 j 16:13	8° る 06'52	-0°17'15
morning rise	-1783 Jan 15 j 13:40	26° ₹ 29'23	31.03070110	min. Earth dist.	-1778 Jul 16 j 20:13		28.98767 AU
retrograde	-1783 Apr 16 j 02:54	28° × 27'01		direct	-1778 Oct 03 j 23:58	6° ප 44'01	20.70707710
-		28 × 27 01 27° × 02'32	0007157			8° ප 36'40	
opposition	-1783 Jul 05 j 23:34			evening set	-1778 Dec 29 j 06:46	8 03040	
min. Earth dist.	-1783 Jul 05 j 06:40		29.03139 AU		1777 X 12:17.51	00-711122	0010100
direct	-1783 Sep 22 j 18:21	25° ⋌ 39'37		conjunction	-1777 Jan 13 j 17:51	9° る 11'33	
evening set	-1783 Dec 18 j 03:23	27° ∡ ³32'19		minimum elong	-1777 Jan 13 j 17:51	9° る 11'33	
				max. Earth dist.	-1777 Jan 14 j 15:19		30.98407 AU
conjunction	-1782 Jan 02 j 12:33	28° ∡ 07'03	0°05'11	morning rise	-1777 Jan 29 j 08:01	9° る 46'45	
minimum elong	-1782 Jan 02 j 12:33	28° ∡ 07'03	0°05'10	retrograde	-1777 Apr 30 j 05:49	11° る 45'02	
behind sun begin	-1782 Jan 02 j 06:19	28° ₰ 06'29		min. Earth dist.	-1777 Jul 19 j 08:01	10° る 21'45	28.98093 AU
behind sun end	-1782 Jan 02 j 18:47	28° ₰ 07'37		opposition	-1777 Jul 20 j 05:07	10° පි 20'18	-0°22'16
max. Earth dist.	-1782 Jan 03 j 05:49	28° ₰ 08'41	31.02567 AU	direct	-1777 Oct 06 j 11:25	8° る 57'29	
morning rise	-1782 Jan 18 j 00:31	28° х 42′03		evening set	-1777 Dec 31 j 17:27	10°る50'09	
Č	-1782 Feb 27 j 10:09	0°ಕ		S	J		
retrograde	-1782 Apr 18 j 13:26	0° る 39'46		conjunction	-1776 Jan 16 j 04:44	11° る 25'04	-0°23'08
rouogrado	-1782 Jun 09 j 17:18	30°R. ✓		minimum elong	-1776 Jan 16 j 04:44	11° る 25'04	
opposition	-1782 Jul 08 j 12:35		0°02'54	max. Earth dist.	-1776 Jan 17 j 01:40		
	•		29.02054 AU			11 3 2703	30.91129 AU
min. Earth dist.	-1782 Jul 07 j 19:35		29.02034 AU	morning rise	-1776 Jan 31 j 19:33		
direct	-1782 Sep 25 j 06:10	27° 🗷 52'16		retrograde	-1776 May 01 j 20:40	13°る58'44	0007114
evening set	-1782 Dec 20 j 13:25	29° ∡ ¹44'56		opposition	-1776 Jul 21 j 18:09	12° る 33'59	
	-1782 Dec 27 j 07:01	0°ಕ		min. Earth dist.	-1776 Jul 20 j 21:08		28.97403 AU
				direct	-1776 Oct 07 j 21:36	11° る 11'12	
conjunction	-1781 Jan 04 j 22:54	0° る 19'41		evening set	-1775 Jan 02 j 04:18	13° る 03'53	
minimum elong	-1781 Jan 04 j 22:55	0° る 19'41	0°00'22				
behind sun begin	-1781 Jan 04 j 16:32	0° る 19'06		conjunction	-1775 Jan 17 j 16:07	13° る 38'51	-0°27'46
behind sun end	-1781 Jan 05 j 05:19	0° ට 20'15		minimum elong	-1775 Jan 17 j 16:07	13° る 38'51	0°27'48
max. Earth dist.	-1781 Jan 05 j 16:51	0° る 21'22	31.01538 AU	max. Earth dist.	-1775 Jan 18 j 14:21	13° る 40'57	30.96994 AU
morning rise	-1781 Jan 20 j 11:20	0° る 54'43		morning rise	-1775 Feb 02 j 07:13	14° る 14'08	
desc. node	-1781 Feb 05 j 08:41	1° る 28'38		retrograde	-1775 May 04 j 10:24	16° る 12'39	
retrograde	-1781 Apr 21 j 02:08	2° る 52'32		min. Earth dist.	-1775 Jul 23 j 09:52		28.96624 AU
min. Earth dist.	-1781 Jul 10 j 06:41		29.01080 AU	opposition	-1775 Jul 24 j 06:57	14° る 47'53	
opposition	-1781 Jul 11 j 01:28	1° る 27'54		direct	-1775 Oct 10 j 10:49	13° る 25'06	0 32 11
direct	-1781 Sep 27 j 17:22	0°る04'58	0 02 00	evening set	-1774 Jan 04 j 15:24	15° ට 17'49	
		0 30438 1°る57'36		evening set	-1//4 Jan 04 j 15.24	13 01749	
evening set	-1781 Dec 22 j 23:38	1 03/30			1774 I 20:02-21	150=52140	0022122
	1700 I 07:00 27	20-722122	000.410.2	conjunction	-1774 Jan 20 j 03:31	15°る52'48	
conjunction	-1780 Jan 07 j 09:27	2°る32'23		minimum elong	-1774 Jan 20 j 03:31	15°₹52'48	
minimum elong	-1780 Jan 07 j 09:27	2°る32'23	0~04'25	max. Earth dist.	-1774 Jan 21 j 00:56		30.96164 AU
behind sun begin	-1780 Jan 07 j 03:08	2° る 31'49		morning rise	-1774 Feb 04 j 19:11	16° る 28'07	
behind sun end	-1780 Jan 07 j 15:46	2° る 32'57		retrograde	-1774 May 07 j 01:21	18° る 26'44	
max. Earth dist.	-1780 Jan 08 j 04:09		31.00614 AU	opposition	-1774 Jul 26 j 19:53	17° る 01'55	
morning rise	-1780 Jan 22 j 22:22	3° る 07'28		min. Earth dist.	-1774 Jul 25 j 22:17	17° る 03'24	28.95739 AU
retrograde	-1780 Apr 22 j 14:15	5° る 05'24		direct	-1774 Oct 12 j 22:09	15° る 39'07	
opposition	-1780 Jul 12 j 14:30	3° ප් 40'42	-0°07'11	evening set	-1773 Jan 07 j 02:24	17° る 31'50	
min. Earth dist.	-1780 Jul 11 j 19:57		29.00222 AU	-	,		
direct	-1780 Sep 29 j 02:56	2° る 17'47		conjunction	-1773 Jan 22 j 14:56	18° ප 06'51	-0°36'55
evening set	-1780 Dec 24 j 09:49	4° る 10'24		minimum elong	-1773 Jan 22 j 14:56	18° ප 06'51	
				max. Earth dist.	-1773 Jan 23 j 13:04		30.95204 AU
				Januar William		-5 -5007	

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1773 in astronomical counting style is the year 1774 BCE in historical counting style. -1773 Feb 07 j 06:58 18°る42'13 direct -1767 Oct 28 i 04:29 1°≈16'37 morning rise -1773 May 09 j 13:06 20°る40'54 evening set -1766 Jan 22 j 09:33 3°≈09'20 retrograde 19°る17'28 28.94725 AU -1773 Jul 28 j 11:47 min. Earth dist. -1773 Jul 29 j 08:52 19°る16'01 -0°41'55 -1766 Feb 07 j 00:58 conjunction 3°≈44'31 -1°06'51 opposition -1773 Oct 15 j 10:26 -1766 Feb 07 j 00:58 direct 17°**る**53'12 minimum elong 3°≈44'31 1°06'52 -1772 Jan 09 j 13:33 -1766 Feb 08 j 02:13 evening set 19°**る**45'53 max. Earth dist. 3°≈46'54 30.88668 AU morning rise -1766 Feb 22 j 20:02 4°≈20'05 -1772 Jan 25 j 02:31 20°る20'56 -0°41'24 conjunction retrograde -1766 May 25 j 07:14 6°≈19'04 minimum elong -1772 Jan 25 j 02:30 20°る20'56 0°41'26 min. Earth dist. -1766 Aug 13 j 00:57 4°≈55'24 28.88467 AU 20°る23'02 30.94157 AU max. Earth dist. -1772 Jan 26 j 00:38 opposition -1766 Aug 14 j 00:35 4°≈53'45 -1°13'38 morning rise -1772 Feb 09 j 19:02 20°る56'19 direct -1766 Oct 30 j 16:45 3°≈30'38 -1772 May 11 j 03:08 22°る55'03 -1765 Jan 24 j 21:09 retrograde evening set 5°≈23'23 opposition -1772 Jul 30 j 21:35 21°る30'05 -0°46'41 min. Earth dist. -1772 Jul 29 j 23:30 21°る31'37 28.93646 AU conjunction -1765 Feb 09 j 12:51 5°≈58'37 -1°10'47 direct -1772 Oct 16 j 22:42 20°る07'13 minimum elong -1765 Feb 09 j 12:51 5°≈58'37 1°10'49 evening set -1771 Jan 11 j 00:45 21°る59'53 max. Earth dist. -1765 Feb 10 j 13:34 6°≈00'57 30.88151 AU morning rise -1765 Feb 25 j 08:28 6°≈34'12 conjunction -1771 Jan 26 j 14:04 22°る34'58 -0°45'50 retrograde -1765 May 27 j 22:04 8°≈33'15 minimum elong -1771 Jan 26 j 14:04 22°る34'58 0°45'53 opposition -1765 Aug 16 j 13:01 7°≈07'56 -1°17'47 max. Earth dist. -1771 Jan 27 j 12:22 22°る37'04 30.93049 AU min. Earth dist. -1765 Aug 15 j 12:49 7°≈09'37 28.87998 AU 23°**る**10'23 morning rise -1771 Feb 11 j 07:06 direct -1765 Nov 02 j 03:25 5°≈44'49 retrograde -1771 May 13 j 15:24 25°る09'09 evening set -1764 Jan 27 i 09:00 7°≈37'37 opposition -1771 Aug 02 j 10:21 23°る44'06 -0°51'24 min. Earth dist. -1771 Aug 01 i 13:05 23°る45'34 28.92545 AU conjunction -1764 Feb 12 i 01:09 8°≈12'53 -1°14'37 direct -1771 Oct 19 j 09:26 22°る21'10 -1764 Feb 12 i 01:09 8°≈12'52 1°14'38 minimum elong evening set -1770 Jan 13 j 11:56 24°る13'49 max. Earth dist. -1764 Feb 13 j 02:40 8°≈15'17 30.87697 AU -1764 Feb 27 j 21:07 8°≈48'30 morning rise -1770 Jan 29 j 01:45 24°₹48'55 -0°50'12 -1764 May 29 j 11:14 10°≈47'36 conjunction retrograde -1770 Jan 29 j 01:44 24°る48'55 0°50'14 -1764 Aug 17 j 01:50 9°≈23'56 28.87566 AU min. Earth dist. minimum elong 9°**≈**22'17 -1°21'49 -1770 Jan 30 j 00:54 24°る51'06 30.91963 AU -1764 Aug 18 j 01:23 max. Earth dist. opposition -1770 Feb 13 j 19:06 -1764 Nov 03 j 15:21 7°≈59'11 25°**る**24'22 direct morning rise -1770 May 16 j 03:04 -1763 Jan 28 j 21:03 9°≈52'02 27°**る**23'09 evening set retrograde -1770 Aug 04 j 22:47 25°る58'02 -0°56'01 opposition -1770 Aug 04 j 00:07 25°る59'36 28.91492 AU -1763 Feb 13 j 13:38 10°≈27'19 -1°18'20 min. Earth dist. conjunction -1770 Oct 21 j 21:37 24°**る**35'02 -1763 Feb 13 j 13:38 direct minimum elong 10°≈27'19 1°18'22 -1769 Jan 15 j 23:19 26°**පි**27'41 -1763 Feb 14 j 14:52 evening set max. Earth dist. 10°≈29'43 30.87270 AU -1763 Mar 01 j 10:02 morning rise 11°≈02'58 conjunction -1769 Jan 31 j 13:21 27°る02'48 -0°54'30 retrograde -1763 Jun 01 j 02:47 13°≈02'08 minimum elong -1769 Jan 31 j 13:21 27°る02'48 0°54'32 opposition -1763 Aug 20 j 13:42 11°≈36'49 -1°25'44 max. Earth dist. -1769 Feb 01 j 12:10 27°る04'57 30.90947 AU min. Earth dist. -1763 Aug 19 j 13:29 11°≈38'30 28.87127 AU morning rise -1769 Feb 16 j 07:16 27°**る**38'17 direct -1763 Nov 06 j 03:40 10°≈13'42 retrograde -1769 May 18 j 15:28 29°**る**37'07 -1762 Jan 31 j 09:19 12°≈06'38 evening set -1769 Aug 07 j 11:24 28° ට 11'55 -1°00'34 opposition min. Earth dist. -1769 Aug 06 j 13:09 28°る13'27 28.90546 AU -1762 Feb 16 j 02:13 12°≈41'57 -1°21'56 conjunction -1769 Oct 24 j 06:58 26°る48'52 -1762 Feb 16 j 02:12 12°≈41'57 1°21'57 direct minimum elong -1768 Jan 18 j 10:28 -1762 Feb 17 i 03:10 evening set 28°る41'31 max. Earth dist. 12°≈44'18 30.86784 AU morning rise -1762 Mar 03 i 23:01 13°≈17'37 -1768 Feb 03 i 01:05 29°る16'40 -0°58'42 conjunction -1762 May 02 j 07:28 15°**≈** minimum elong -1768 Feb 03 i 01:05 29°る16'40 0°58'43 retrograde -1762 Jun 03 i 15:34 15°≈16'50 max. Earth dist. -1768 Feb 04 i 01:28 29°る18'58 30.90058 AU -1762 Jul 06 i 09:51 15°R≈ -1768 Feb 18 i 19:17 29°る52'10 min. Earth dist. -1762 Aug 22 j 03:11 13°≈53'06 28.86615 AU morning rise -1768 Feb 22 j 08:54 -1762 Aug 23 j 02:06 13°≈51'31 -1°29'31 0°≈≈ opposition direct -1762 Nov 08 j 14:36 12°≈28'23 retrograde -1768 May 20 j 03:58 1°251'03 14°**≈**21′21 opposition -1768 Aug 08 j 23:50 0°≈25'48 -1°05'01 evening set -1761 Feb 02 j 21:35 -1768 Aug 08 j 00:27 min. Earth dist. 0°≈27'25 28.89721 AU -1768 Aug 24 j 17:46 30°Rる conjunction -1761 Feb 18 j 15:00 14°≈56'41 -1°25'24 29°**る**02'43 direct -1768 Oct 25 j 18:18 minimum elong -1761 Feb 18 j 15:00 14°≈56'41 1°25'26 -1768 Dec 23 j 17:47 max. Earth dist. -1761 Feb 19 j 16:08 14°≈59'03 30.86234 AU 0°≈ -1767 Jan 19 j 22:03 -1761 Feb 20 j 02:07 15°≈ evening set 0°**≈**55'23 -1761 Mar 06 j 12:07 morning rise 15°≈32'23 -1767 Feb 04 j 12:55 conjunction 1°≈30'33 -1°02'49 retrograde -1761 Jun 06 j 04:40 17°≈31'37 minimum elong -1767 Feb 04 j 12:55 1°≈30'33 1°02'51 opposition -1761 Aug 25 j 14:22 16°≈06'17 -1°33'10 max. Earth dist. -1767 Feb 05 j 12:43 1°≈32'48 30.89299 AU min. Earth dist. -1761 Aug 24 j 14:43 16°≈07'56 28.86020 AU morning rise -1767 Feb 20 j 07:44 2°≈06'05 -1761 Oct 10 j 05:59 15°R≈ retrograde -1767 May 22 j 18:05 4°≈05'01 direct -1761 Nov 11 j 02:56 14°≈43'07 2°≈39'44 -1°09'23 -1761 Dec 12 j 06:46 opposition -1767 Aug 11 j 12:12 15°≈ min. Earth dist. -1767 Aug 10 j 12:53 -1760 Feb 05 j 09:59 2°≈41'21 28.89039 AU evening set 16°≈36'07

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1760 in astronomical counting style is the year 1761 BCE in historical counting style. -1760 Feb 21 i 03:42 17°≈11'29 -1°28'45 retrograde -1754 Jun 22 j 02:25 3° **)** 14'51 conjunction -1760 Feb 21 j 03:41 17°≈11'28 1°28'46 min. Earth dist. -1754 Sep 09 j 03:11 1°**¥**50'57 28.82481 AU minimum elong max. Earth dist. -1760 Feb 22 j 03:44 -1754 Sep 10 j 02:07 1°**)**49'21 -1°54'28 17°≈13'45 30.85591 AU opposition -1754 Nov 26 j 10:28 0°\ 25'50 -1760 Mar 08 j 01:23 17°≈47'12 direct morning rise -1760 Jun 07 j 17:34 -1753 Feb 21 j 02:02 2°¥19'10 retrograde 19°≈46'27 evening set 18°≈22'39 28.85352 AU min. Earth dist. -1760 Aug 26 j 04:15 2°**¥**54'42 -1°48'10 -1753 Mar 08 j 22:40 opposition -1760 Aug 27 j 02:44 18°≈21'04 -1°36'40 conjunction 16°≈57'51 -1753 Mar 08 j 22:40 direct -1760 Nov 12 j 12:48 minimum elong 2°**H**54'42 1°48'11 -1759 Feb 06 j 22:23 evening set 18°≈50'53 max. Earth dist. -1753 Mar 09 j 22:54 2° **★**56'59 30.82315 AU morning rise -1753 Mar 24 j 22:57 3°**)** € 30'34 conjunction -1759 Feb 22 j 16:42 19°≈26′16 -1°31′58 retrograde -1753 Jun 24 j 15:05 5° # 29'44 -1759 Feb 22 j 16:41 -1753 Sep 12 j 13:56 minimum elong 19°≈26'16 1°31'59 opposition 4°**¥**04'15 -1°56'51 -1759 Feb 23 j 17:29 -1753 Sep 11 j 16:10 max. Earth dist. 19°≈28'36 30.84897 AU min. Earth dist. 4°**₭**05'47 28.82453 AU morning rise -1759 Mar 10 j 14:37 20°≈02'00 direct -1753 Nov 28 j 21:32 2°\ 40'45 retrograde -1759 Jun 10 j 05:59 22°≈01'14 evening set -1752 Feb 23 j 14:54 4°) 34'09 opposition -1759 Aug 29 j 14:41 20°≈35'50 -1°40'02 min. Earth dist. -1759 Aug 28 j 15:45 20°≈37'26 28.84647 AU conjunction -1752 Mar 10 j 12:06 5°\(\mathbf{1}\)09'42 -1°50'19 direct -1759 Nov 15 j 00:29 19°≈12'33 minimum elong -1752 Mar 10 j 12:05 5°**)** 09'42 1°50'19 21°**≈**05'36 evening set -1758 Feb 09 j 10:56 max. Earth dist. -1752 Mar 11 j 12:32 5°**升**12'00 30.82344 AU morning rise -1752 Mar 26 j 12:41 5°\ 45'35 conjunction -1758 Feb 25 j 05:29 21°≈41'00 -1°35'02 retrograde -1752 Jun 26 j 05:18 7°**¥**44'44 minimum elong -1758 Feb 25 i 05:29 21°≈41'00 1°35'03 min. Earth dist. -1752 Sep 13 j 03:10 6°¥20'53 28.82514 AU max. Earth dist. -1758 Feb 26 i 05:09 21°≈43'14 30.84200 AU opposition -1752 Sep 14 i 01:35 6°\(\mathbf{1}\)19'19 -1°59'03 morning rise -1758 Mar 13 i 03:58 22°≈16'46 direct -1752 Nov 30 i 09:54 4° ¥ 55'48 retrograde -1758 Jun 12 j 19:11 24°≈16'00 evening set -1751 Feb 25 j 04:10 6°**)**(49'17 -1758 Aug 31 j 04:24 22°≈52'06 28.83985 AU min. Earth dist. -1758 Sep 01 j 02:47 22°≈50'32 -1°43'15 -1751 Mar 13 j 01:37 7° **★**24'52 -1°52'17 conjunction opposition -1758 Nov 17 j 10:55 -1751 Mar 13 j 01:37 7°**¥**24'52 1°52'18 21°227'11 minimum elong direct -1757 Feb 11 j 23:14 23°≈20'17 -1751 Mar 14 j 00:54 7°**升**27′04 30.82419 AU max. Earth dist. evening set -1751 Mar 29 j 02:39 8° \(\frac{1}{2}\) 00'47 morning rise -1757 Feb 27 j 18:20 23°≈55'42 -1°37'58 -1751 Jun 28 j 19:20 9°**)** 59'55 conjunction retrograde -1757 Feb 27 j 18:20 -1751 Sep 16 j 13:15 8°**¥**34'32 -2°01'05 minimum elong 23°≈55'42 1°38'00 opposition -1757 Feb 28 j 19:10 8°**升**36'01 28.82608 AU max. Earth dist. 23°≈58'03 30.83563 AU min. Earth dist. -1751 Sep 15 j 16:15 -1757 Mar 15 j 17:02 -1751 Dec 02 j 20:02 7°**升**11′02 morning rise 24°≈31'29 direct -1757 Jun 15 j 07:28 26°≈30'42 -1750 Feb 27 j 17:24 9°**)**€04'35 retrograde evening set -1757 Sep 03 j 14:46 25°≈05'12 -1°46'18 opposition -1750 Mar 15 j 15:25 9°**)**40'12 -1°54'06 min. Earth dist. -1757 Sep 02 j 16:20 25°≈06'47 28.83400 AU conjunction direct -1757 Nov 19 j 23:07 23°≈41'48 minimum elong -1750 Mar 15 j 15:25 9°\(\pm\)40'12 1°54'06 evening set -1756 Feb 14 j 11:52 25°≈34'56 max. Earth dist. -1750 Mar 16 j 15:05 9°**升**42'25 30.82502 AU morning rise -1750 Mar 31 j 16:38 10°**¥**16′07 conjunction -1756 Mar 01 j 07:17 26°≈10'23 -1°40'45 retrograde -1750 Jul 01 j 07:51 12°**升**15′14 -1756 Mar 01 j 07:17 26°≈10'23 1°40'45 min. Earth dist. -1750 Sep 18 j 03:47 10°**升**51'23 28.82666 AU minimum elong -1756 Mar 02 j 07:11 26°≈12'38 30.83041 AU -1750 Sep 19 j 00:55 10°**)**49'53 -2°02'55 max. Earth dist. opposition -1756 Mar 17 j 06:30 26°≈46'11 -1750 Dec 05 j 08:05 9°\ 26'22 morning rise direct -1756 Jun 16 j 21:50 28°≈45'23 -1749 Mar 02 j 06:47 11°**₩**19'59 retrograde evening set min. Earth dist. -1756 Sep 04 i 03:51 27°≈21'28 28.82954 AU -1749 Mar 18 i 05:03 opposition -1756 Sep 05 i 02:33 27°≈19'52 -1°49'11 conjunction 11°\\$55'37 -1°55'43 direct -1756 Nov 21 i 09:28 25°≈56'24 minimum elong -1749 Mar 18 i 05:03 11°**)** 55'37 1°55'44 evening set -1755 Feb 16 j 00:32 27°≈49'36 max. Earth dist. -1749 Mar 19 i 03:00 11°**)** 57'40 30.82526 AU morning rise -1749 Apr 03 i 06:48 12°**₩**31'34 -1755 Mar 03 i 20:25 28°≈25'05 -1°43'23 retrograde -1749 Jul 03 i 20:39 14°**₩**30'38 conjunction -1755 Mar 03 i 20:25 28°≈25'05 1°43'24 -1749 Sep 21 j 12:44 13°\colon 05'18 -2°04'34 minimum elong opposition max. Earth dist. -1755 Mar 04 j 20:59 28°≈27'24 30.82649 AU min. Earth dist. -1749 Sep 20 j 16:45 13°**)**€06'43 28.82655 AU morning rise -1755 Mar 19 j 19:56 29°≈00'54 direct -1749 Dec 07 j 18:33 11°**)**(41'44 0°**∀** -1755 Apr 18 j 00:22 evening set -1748 Mar 03 j 20:16 13°**¥**35′25 retrograde -1755 Jun 19 j 10:56 1°**¥**00'05 -1755 Aug 23 j 06:39 30°R≈ conjunction -1748 Mar 19 j 19:08 14°**)** 11′04 -1°57′11 -1755 Sep 07 j 14:26 29°≈34'34 -1°51'55 -1748 Mar 19 j 19:08 14°**)** 11′04 1°57′11 opposition minimum elong -1755 Sep 06 j 16:18 29°**≈**36'07 28.82640 AU -1748 Mar 20 j 17:24 14° **€** 13'09 30.82462 AU min. Earth dist. max. Earth dist. -1748 Apr 04 j 21:04 14°**)** 47'01 direct -1755 Nov 23 j 21:45 28°≈11'05 morning rise 0°**)**€ -1748 Jul 05 j 08:26 16°**)**46'01 -1754 Feb 16 j 13:42 retrograde evening set -1754 Feb 18 j 13:12 0°**)** 04'20 min. Earth dist. -1748 Sep 22 j 05:00 15°**¥**22'04 28.82543 AU opposition -1748 Sep 23 j 00:17 15°**¥**20'42 -2°06'01 conjunction -1754 Mar 06 j 09:29 0° **★**39'50 -1°45'51 direct -1748 Dec 09 j 06:21 13°**)** 57'04 minimum elong -1754 Mar 06 j 09:28 0° **★**39'50 1°45'52 evening set -1747 Mar 06 j 09:56 15°**)** 50'48 max. Earth dist. -1754 Mar 07 j 09:43 0°**)** 42'07 30.82415 AU -1754 Mar 22 j 09:21 1°**)** 15'40 -1747 Mar 22 j 09:06 16° **€** 26'27 -1°58'27 morning rise conjunction

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1747 in astronomical counting style is the year 1748 BCE in historical counting style. opposition -1747 Mar 22 j 09:06 16°**¥**26'27 1°58'28 -1741 Oct 09 i 07:19 1° Y 05'44 - 2° 10'46 minimum elong -1747 Mar 23 j 05:32 16°**)** €28'22 30.82322 AU min. Earth dist. -1741 Oct 08 j 15:06 1°Υ06'53 28.82577 AU max. Earth dist. 30°**₹**₩ -1747 Apr 07 j 11:31 17°¥02'25 -1741 Nov 22 j 14:10 morning rise -1747 Jul 07 j 22:29 19°**)**€01'20 -1741 Dec 25 j 18:26 29° **)** 41'43 direct retrograde $0^{\circ}\Upsilon$ -1747 Sep 25 j 11:51 17°**¥**36′00 -2°07′17 -1740 Jan 27 j 10:16 opposition 1°Y35'49 min. Earth dist. -1747 Sep 24 j 16:59 17°**₭**37'20 28.82378 AU evening set -1740 Mar 22 j 09:11 direct -1747 Dec 11 j 17:03 16°**)** 12′17 -1740 Apr 07 j 11:13 2°Y11'37 -2°02'16 evening set -1746 Mar 08 j 23:22 18°**)**€06'03 conjunction minimum elong -1740 Apr 07 j 11:13 2°Υ11'37 2°02'15 conjunction -1746 Mar 24 j 23:01 18°\dagger41'44 -1°59'33 max. Earth dist. -1740 Apr 08 j 04:00 2°**Y**13'11 30.82643 AU minimum elong -1746 Mar 24 j 23:01 18°**)**41'44 1°59'33 morning rise -1740 Apr 23 j 15:50 2°Y47'40 -1746 Mar 25 j 19:35 -1740 Jul 23 j 17:51 4°Y45'55 max. Earth dist. 18°**)** 43'39 30.82130 AU retrograde -1740 Oct 10 j 18:23 3°**Y**20'45 -2°10'39 morning rise -1746 Apr 10 j 01:38 19°**升**17'42 opposition retrograde -1746 Jul 10 j 10:10 21°**)** 16'31 min. Earth dist. -1740 Oct 10 j 03:13 3°**Y**21'49 28.83027 AU opposition -1746 Sep 27 j 23:20 19°**升**51'10 -2°08'22 direct -1740 Dec 27 j 04:33 1°Y56'43 min. Earth dist. -1746 Sep 27 j 05:35 19°**¥**52'25 28.82187 AU evening set -1739 Mar 24 j 23:01 3°Y50'55 direct -1746 Dec 14 j 05:42 18°**¥**27'23 evening set -1745 Mar 11 j 12:56 20°**¥**21'11 conjunction -1739 Apr 10 j 01:37 4°Y26'45 -2°02'03 minimum elong -1739 Apr 10 j 01:37 4°Y26'45 2°02'03 conjunction -1745 Mar 27 j 12:59 20°\ 56'52 -2°00'28 max. Earth dist. -1739 Apr 10 j 18:52 4°Υ28'22 30.83127 AU minimum elong -1745 Mar 27 j 12:59 20°\ 56'52 2°00'29 morning rise -1739 Apr 26 j 06:19 5°**Y**02'49 max. Earth dist. -1745 Mar 28 i 08:31 20°\\$58'42 30.81965 AU retrograde -1739 Jul 26 i 05:50 7°**Υ**01'00 morning rise -1745 Apr 12 i 15:59 21° ¥ 32'51 opposition -1739 Oct 13 i 05:26 5°Y35'54 -2°10'19 retrograde -1745 Jul 13 i 00:33 23°\(\frac{1}{3}31'34 min. Earth dist. -1739 Oct 12 j 14:57 5°Υ36'56 28.83525 AU opposition -1745 Sep 30 j 10:35 22°\(\)\(\)06'12 -2°09'15 direct -1739 Dec 29 j 15:43 4°Υ11'53 -1745 Sep 29 j 16:33 22°\cdot\07'28 28.82049 AU -1738 Mar 27 j 12:57 6°**Y**06'11 min. Earth dist. evening set -1745 Dec 16 j 18:34 20°¥42'19 direct -1744 Mar 13 j 02:32 22°\ 36'10 -1738 Apr 12 j 15:46 6°Y42'02 -2°01'39 conjunction evening set -1738 Apr 12 j 15:46 6°Y42'02 2°01'39 minimum elong 6°**Ƴ**43'28 30.83640 AU -1744 Mar 29 j 02:59 23°\dagger11'53 -2°01'12 -1738 Apr 13 j 07:08 conjunction max. Earth dist. -1744 Mar 29 j 02:59 morning rise -1738 Apr 28 j 20:53 7°**Y**18′07 23°**X**11'53 2°01'12 minimum elong -1744 Mar 29 j 22:11 -1738 Jul 28 j 19:21 9°Y16'13 max. Earth dist. 23°**₭**13'41 30.81853 AU retrograde -1738 Oct 15 j 16:30 7° Y 51'13 -2° 09'48 -1744 Apr 14 j 06:19 23°**)** 47'53 morning rise opposition -1744 Jul 14 j 12:46 25°**)** 46'30 -1738 Oct 15 j 02:35 7°**Υ**′52'12 28.84033 AU retrograde min. Earth dist. 24°**∺**21'07 -2°09'55 -1744 Oct 01 j 21:56 -1737 Jan 01 j 01:50 6°**Y**27'11 opposition direct 24°**₭**22'18 28.81989 AU -1744 Oct 01 j 05:21 -1737 Mar 30 j 03:01 8°**Y**21'34 min. Earth dist. evening set direct -1744 Dec 18 j 06:06 22°**米**57'11 evening set -1743 Mar 15 j 16:08 24°**)** 51'05 conjunction -1737 Apr 15 j 06:19 8°Y57'26 -2°01'05 minimum elong -1737 Apr 15 j 06:19 8°Y57'26 2°01'04 conjunction -1743 Mar 31 j 17:04 25°\ 26'49 -2°01'45 max. Earth dist. -1737 Apr 15 j 21:31 8°**Υ**58'52 30.84117 AU -1743 Mar 31 j 17:04 25°\ 26'49 2°01'45 morning rise -1737 May 01 j 11:33 9°Y33'32 minimum elong -1743 Apr 01 j 12:04 25°**升**28'36 30.81852 AU retrograde -1737 Jul 31 j 06:27 11° **Y**31'32 max. Earth dist. -1743 Apr 16 j 20:39 26°\ 02'49 -1737 Oct 18 j 03:32 10°Υ06'36 -2°09'04 morning rise opposition -1743 Jul 17 j 03:00 28°\(\)401'19 min. Earth dist. -1737 Oct 17 j 15:10 10°**Υ**07'29 28.84473 AU retrograde -1743 Oct 04 j 08:58 26°\dagger35'58 -2°10'24 -1736 Jan 03 j 14:09 8°Y42'33 opposition direct 10°Y37'00 min. Earth dist. -1743 Oct 03 i 15:50 26°\(\)437'11 28.82046 AU evening set -1736 Mar 31 i 17:13 direct -1743 Dec 20 j 19:09 25°\ 11'59 -1736 Apr 16 j 20:52 11°Y12'54 -2°00'18 evening set -1742 Mar 18 j 05:50 27°**)** 05'57 conjunction minimum elong -1736 Apr 16 j 20:52 11°Υ12'54 2°00'18 -1742 Apr 03 j 07:02 27°\dagger41'43 -2°02'06 max. Earth dist. -1736 Apr 17 i 10:13 11°Υ14'09 30.84523 AU conjunction -1742 Apr 03 i 07:02 27°**)** 41'43 2°02'06 -1736 May 03 j 02:28 11°**Y**49′00 minimum elong morning rise max. Earth dist. -1742 Apr 04 j 00:58 27°**)** 43'23 30.81973 AU -1736 Aug 01 j 20:23 13°**Y**46′54 retrograde -1742 Apr 19 j 11:01 28° **)** 17'44 -1736 Oct 19 j 14:30 12°Y22'00 -2°08'09 morning rise opposition $0^{\circ}\Upsilon$ 12°**Υ**22'52 28.84824 AU -1742 Jun 18 j 06:02 min. Earth dist. -1736 Oct 19 j 02:20 0°Υ16'09 10°Y57'53 retrograde -1742 Jul 19 j 16:39 direct -1735 Jan 05 j 02:49 12°Y52'25 -1742 Aug 20 j 07:07 30°R **₩** evening set -1735 Apr 03 j 07:28 opposition -1742 Oct 06 j 20:14 28°\\$50'49 -2°10'41 -1742 Oct 06 j 04:18 28°**₭**51'57 28.82248 AU -1735 Apr 19 j 11:28 13°**Y**28′20 -1°59′22 min. Earth dist. conjunction 27°**)** 26'49 -1735 Apr 19 j 11:28 13°**Y**28′20 1°59′21 direct -1742 Dec 23 j 05:57 minimum elong -1741 Mar 20 j 19:17 29°**∺**20′50 -1735 Apr 19 j 23:56 13°**Y**29'30 30.84820 AU evening set max. Earth dist. 14°**Y**04′26 morning rise -1735 May 05 j 17:13 conjunction -1741 Apr 05 j 21:05 29°\ 56'37 -2°02'17 retrograde -1735 Aug 04 j 08:03 16°**Y**02'11 minimum elong -1741 Apr 05 j 21:05 29°****56'37 2°02'16 opposition -1735 Oct 22 j 01:29 14°**Y**'37'20 -2°07'02 max. Earth dist. -1741 Apr 06 j 15:27 29°**₭**58'21 30.82248 AU min. Earth dist. -1735 Oct 21 j 15:18 14°**Υ**38'03 28.85081 AU -1741 Apr 07 j 09:10 0° γ direct -1734 Jan 07 j 14:15 13°**Y**13′08 -1741 Apr 22 j 01:14 0°Y32'39 -1734 Apr 05 j 21:33 15°**℃**07'43 morning rise evening set

-1741 Jul 22 j 05:00

retrograde

2°Y30'59

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1734 in astronomical counting style is the year 1735 BCE in historical counting style. 15°**Y**43'38 -1°58'14 -1734 Apr 22 i 01:59 min. Earth dist. -1728 Nov 05 j 22:21 0°820'12 28.88039 AU conjunction -1734 Apr 22 i 02:00 15°**Y**43'38 1°58'13 -1728 Nov 17 j 20:35 30°RY minimum elong 15°**Y**44'43 30.85062 AU -1734 Apr 22 j 13:31 -1727 Jan 23 j 03:24 28°Y55'11 max. Earth dist. direct -1727 Mar 28 j 08:36 -1734 May 08 j 07:58 16°**Y**19'44 0°8 morning rise 18° **Y**17'20 -1734 Aug 06 j 22:04 -1727 Apr 21 j 23:47 0°**8**50'02 retrograde evening set -1734 Oct 24 j 12:14 16°Y52'29 -2°05'44 opposition -1734 Oct 24 j 01:59 16°**Y**53'13 28.85295 AU -1727 May 08 j 06:25 1°826'04 -1°45'30 min. Earth dist. conjunction 15°**Y**28'14 -1727 May 08 j 06:25 direct -1733 Jan 10 j 04:18 minimum elong 1°**8**26'04 1°45'28 -1727 May 08 j 12:02 17°**Y**22'49 evening set -1733 Apr 08 j 11:38 max. Earth dist. 1°**8**26'35 30.88374 AU morning rise -1727 May 24 j 13:42 2°802'10 conjunction -1733 Apr 24 j 16:20 17°**Y**58'46 -1°56'56 retrograde -1727 Aug 22 j 10:22 3°**8**58'38 -1733 Apr 24 j 16:21 17°**Y**′58'46 1°56'55 -1727 Nov 08 j 14:10 2°834'06 -1°51'29 minimum elong opposition -1733 Apr 25 j 02:26 17°**Y**′59'43 30.85270 AU max. Earth dist. min. Earth dist. -1727 Nov 08 j 08:36 2°**8**34'30 28.88928 AU morning rise -1733 May 10 j 22:39 18°**Y**34'52 direct -1726 Jan 25 j 14:50 1°809'28 retrograde -1733 Aug 09 j 10:50 20° Y 32' 18 evening set -1726 Apr 24 j 13:53 3°804'24 opposition -1733 Oct 26 j 23:05 19°**Y**07'28 -2°04'15 min. Earth dist. -1733 Oct 26 j 14:33 19°**Y**08'04 28.85511 AU conjunction -1726 May 10 j 20:48 3°840'27 -1°43'00 direct -1732 Jan 12 j 16:31 17° Y 43'07 minimum elong -1726 May 10 j 20:48 3°840'27 1°43'00 evening set -1732 Apr 10 j 01:41 19°**Ƴ**37'44 max. Earth dist. -1726 May 11 j 01:58 3°840'56 30.89296 AU morning rise -1726 May 27 j 04:06 4°816'33 conjunction -1732 Apr 26 j 06:54 20°Y13'42 -1°55'27 retrograde -1726 Aug 24 j 21:13 6°812'53 minimum elong -1732 Apr 26 i 06:54 20°**℃**13'42 1°55'26 opposition -1726 Nov 11 i 00:41 4°848'28 -1°48'44 max. Earth dist. -1732 Apr 26 j 16:50 20°Υ14'38 30.85509 AU min. Earth dist. -1726 Nov 10 j 21:01 4°848'44 28.89867 AU morning rise -1732 May 12 j 13:18 20°Y49'48 direct -1725 Jan 28 i 01:27 3°**8**23'50 retrograde -1732 Aug 10 j 22:51 22° Y 47'03 evening set -1725 Apr 27 j 03:59 5°818'51 -1732 Oct 28 j 09:35 21°Y22'14 -2°02'35 opposition -1732 Oct 28 j 01:06 21°**Υ**22'50 28.85769 AU -1725 May 13 j 11:11 5°**8**54'54 -1°40'22 min. Earth dist. conjunction -1731 Jan 14 j 05:57 19°**Y**57'48 -1725 May 13 j 11:12 5°**8**54'54 1°40'20 direct minimum elong -1731 Apr 12 j 15:52 21°**Y**52'27 max. Earth dist. -1725 May 13 j 15:15 5°**8**55'17 30.90245 AU evening set -1725 May 29 j 18:39 6°831'01 morning rise 22°Υ28'26 -1°53'48 -1731 Apr 28 j 21:14 -1725 Aug 27 j 10:30 8°**8**27'13 conjunction retrograde -1731 Apr 28 j 21:14 -1725 Nov 13 j 11:06 7°**8**02'54 -1°45'49 minimum elong 22°**Y**28′26 1°53′47 opposition -1725 Nov 13 j 07:32 -1731 Apr 29 j 05:24 22°**Y**29'12 30.85814 AU 7°**と**03'09 28.90784 AU max. Earth dist. min. Earth dist. -1731 May 15 j 03:57 23°**Y**04'32 -1724 Jan 30 j 15:12 5°**8**38'15 morning rise direct -1731 Aug 13 j 11:44 25°**Y**′01'36 -1724 Apr 28 j 18:21 7°**8**33'21 retrograde evening set 23°**Y**'36'48 -2°00'43 -1731 Oct 30 j 20:16 opposition -1731 Oct 30 j 12:49 23°**Υ**37'20 28.86132 AU -1724 May 15 j 01:41 8°**8**09'25 -1°37'34 min. Earth dist. conjunction direct -1730 Jan 16 j 16:59 22°Y12'18 minimum elong -1724 May 15 j 01:41 8°**8**09'25 1°37'32 evening set -1730 Apr 15 j 05:38 24°\bar{Y}06'59 max. Earth dist. -1724 May 15 j 04:07 8°809'38 30.91127 AU morning rise -1724 May 31 j 09:13 8°845'31 conjunction -1730 May 01 j 11:29 24° Y 42'59 -1°51'58 retrograde -1724 Aug 28 j 22:39 10°841'34 -1730 May 01 j 11:29 24°Υ42'59 1°51'58 -1724 Nov 14 j 21:36 9°817'20 -1°42'45 minimum elong opposition max. Earth dist. -1730 May 01 j 20:11 24°**Υ**43'47 30.86238 AU min. Earth dist. -1724 Nov 14 j 20:00 9°817'27 28.91630 AU -1730 May 17 j 18:12 25°**Y**19′05 -1723 Feb 01 j 03:05 7°**8**52'40 morning rise direct -1730 Aug 15 j 23:10 27°**Y**15′59 -1723 May 01 j 08:33 9°847'50 retrograde evening set -1730 Nov 02 i 06:50 25°Υ51'13 -1°58'41 opposition 25°**Υ**51'43 28.86617 AU -1723 May 17 j 16:13 10°**8**23'54 -1°34'37 min. Earth dist. -1730 Nov 01 j 23:53 conjunction direct -1729 Jan 19 i 05:07 24°\bar{`}26'40 minimum elong -1723 May 17 j 16:14 10°**8**23'54 1°34'35 evening set -1729 Apr 17 j 19:43 26°**Y**21′23 max. Earth dist. -1723 May 17 i 17:59 10°**8**24'04 30.91934 AU morning rise -1723 Jun 02 j 23:43 11°800'00 -1729 May 04 i 01:43 26°Y57'23 -1°49'59 retrograde -1723 Aug 31 j 11:00 12°**8**55'54 conjunction -1729 May 04 i 01:44 26°Y57'23 1°49'58 opposition -1723 Nov 17 j 08:04 11°**8**31'44 -1°39'32 minimum elong max. Earth dist. -1729 May 04 j 08:40 26°Υ58'02 30.86808 AU min. Earth dist. -1723 Nov 17 j 06:49 11°**8**31'50 28.92378 AU -1729 May 20 j 08:47 27° **Y**33'30 morning rise direct -1722 Feb 03 j 16:36 10°807'02 29°Y30'14 retrograde -1729 Aug 18 j 11:12 evening set -1722 May 03 j 22:40 12°**8**02'14 opposition -1729 Nov 04 j 17:15 28°Y05'32 -1°56'27 min. Earth dist. -1729 Nov 04 j 10:36 28°Υ06'00 28.87263 AU conjunction -1722 May 20 j 06:22 12°838'19 -1°31'32 -1728 Jan 21 j 15:49 26°\dagger40'56 minimum elong -1722 May 20 j 06:22 12°**8**38'19 1°31'32 direct -1728 Apr 19 j 09:43 28°**Y**35'42 -1722 May 20 j 05:59 12°**8**38'17 30.92650 AU evening set max. Earth dist. -1722 Jun 05 j 14:02 13°**8**14'25 morning rise -1728 May 05 j 16:10 29°**Y**11'43 -1°47'49 -1722 Aug 09 j 10:26 15°8 conjunction 15°810'08 minimum elong -1728 May 05 j 16:11 29°**Y**11'43 1°47'49 retrograde -1722 Sep 02 j 24:00 max. Earth dist. -1728 May 05 j 23:20 29°**Y**12'23 30.87525 AU -1722 Sep 27 j 14:04 15°R₩ morning rise -1728 May 21 j 23:14 29°**Y**47′50 opposition -1722 Nov 19 j 18:31 13°**8**46'02 -1°36'10 -1728 May 27 j 14:59 0°8 min. Earth dist. -1722 Nov 19 j 18:41 13°**8**46'01 28.93062 AU -1728 Aug 19 j 21:15 1°844'26 -1721 Feb 06 j 04:13 12°**8**21'17 retrograde direct -1728 Nov 06 j 03:49 0°819'48 -1°54'03 -1721 May 06 j 12:43 14°**8**16'31 opposition evening set

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1721 in astronomical counting style is the year 1722 BCE in historical counting style. -1721 May 22 j 20:47 14°**8**52'37 -1°28'20 -1715 Jul 27 i 05:01 $0^{\circ}II$ conjunction -1721 May 22 j 20:48 14°852'37 1°28'18 -1715 Sep 18 j 04:19 0°**I**I45'38 minimum elong retrograde max. Earth dist. -1721 May 22 j 20:22 14°**8**52'34 30.93311 AU -1715 Nov 11 j 12:25 30°R₩ -1721 May 26 j 04:20 -1715 Dec 04 j 17:52 29°822'00 -1°09'00 15°8 opposition -1721 Jun 08 j 04:20 15°**8**28'42 min. Earth dist. -1715 Dec 04 j 23:21 29°821'37 28.98961 AU morning rise -1721 Sep 05 j 11:15 17°**8**24'14 -1714 Feb 21 j 14:28 27°856'59 retrograde direct -1721 Nov 22 j 04:45 -1714 May 22 j 13:55 29°852'31 opposition 16°**8**00'11 -1°32'40 evening set -1721 Nov 22 j 05:56 -1714 May 26 j 00:31 min. Earth dist. 16°**8**00'06 28.93692 AU $0^{\circ}\Pi$ -1721 Dec 31 j 12:09 15°R direct -1720 Feb 08 j 17:04 14°**8**35'23 conjunction -1714 Jun 07 j 22:30 0°**П**28'36 -1°02'31 -1714 Jun 07 j 22:30 -1720 Mar 18 j 08:41 15°8 minimum elong 0°II28'36 1°02'30 16°**8**30'38 -1714 Jun 07 j 16:16 0°**Ц**28'01 30.99545 AU evening set -1720 May 08 j 02:57 max. Earth dist. -1714 Jun 24 j 05:34 morning rise 1°**Ⅱ**04'35 conjunction -1720 May 24 j 11:00 17°806'44 -1°24'59 retrograde -1714 Sep 20 j 16:14 2°**I**58'59 minimum elong -1720 May 24 j 11:00 17°**8**06'44 1°24'59 opposition -1714 Dec 07 j 04:00 1°**I**35'28 -1°04'40 max. Earth dist. -1720 May 24 j 08:25 17°**8**06'30 30.93949 AU min. Earth dist. -1714 Dec 07 j 09:38 1°**Д**35'04 29.00202 AU morning rise -1720 Jun 09 j 18:42 17°**8**42'49 direct -1713 Feb 24 j 03:27 0°**I**I10′28 retrograde -1720 Sep 06 j 22:49 19°**8**38'10 evening set -1713 May 25 j 03:55 2°II06'04 opposition -1720 Nov 23 j 15:00 18°814'10 -1°29'02 min. Earth dist. -1720 Nov 23 j 16:44 18°**8**14'02 28.94338 AU conjunction -1713 Jun 10 j 12:19 2°II42'09 -0°58'25 direct -1719 Feb 10 j 04:33 16°**8**49'17 minimum elong -1713 Jun 10 j 12:19 2°II42'09 0°58'23 evening set -1719 May 10 j 16:49 18°**8**44'35 max. Earth dist. -1713 Jun 10 j 04:13 2°**Д**41'24 31.00800 AU morning rise -1713 Jun 26 j 19:19 3°**Ⅱ**18'07 conjunction -1719 May 27 j 01:06 19°**8**20'41 -1°21'32 retrograde -1713 Sep 23 i 05:16 5°**Ⅱ**12'23 minimum elong -1719 May 27 j 01:07 19°**8**20'41 1°21'30 opposition -1713 Dec 09 j 14:07 3°II48'58 -1°00'13 max. Earth dist. -1719 May 26 j 22:41 19°**8**20'27 30.94608 AU min. Earth dist. -1713 Dec 09 j 21:05 3°П48'29 29.01453 AU -1719 Jun 12 j 08:36 19°**8**56'44 -1712 Feb 26 j 15:26 2°**I**I23'59 morning rise direct -1719 Sep 09 j 08:04 21°851'55 -1712 May 26 j 17:49 4°**Ⅱ**19'39 retrograde evening set -1719 Nov 26 j 01:16 20°**8**27'58 -1°25'16 opposition -1719 Nov 26 j 04:18 20°**8**27'45 28.95023 AU -1712 Jun 12 j 02:19 4°**Д**55'44 -0°54'13 min. Earth dist. conjunction 19°**8**03'02 -1718 Feb 12 j 16:16 -1712 Jun 12 j 02:19 4°II55'44 0°54'12 minimum elong direct -1718 May 13 j 06:45 20°**8**58'21 -1712 Jun 11 j 18:09 4°**Д**54'58 31.02021 AU max. Earth dist. evening set -1712 Jun 28 j 08:57 5°**Ⅱ**31'40 morning rise 7°**Ⅱ**25'48 -1718 May 29 j 15:02 21°**8**34'27 -1°17'57 -1712 Sep 24 j 16:21 conjunction retrograde -1712 Dec 11 j 00:26 6°П02'29 -0°55'42 -1718 May 29 j 15:03 21°**8**34'27 1°17'56 minimum elong opposition -1718 May 29 j 10:57 21°**8**34'04 30.95351 AU -1712 Dec 11 j 08:30 6°**Д**01'55 29.02624 AU max. Earth dist. min. Earth dist. -1718 Jun 14 j 22:38 22°**8**10'30 -1711 Feb 28 j 04:59 4°**I**37'30 morning rise direct retrograde -1718 Sep 11 j 20:27 24°**8**05'30 evening set -1711 May 29 j 07:43 6°**Ⅲ**33'13 opposition -1718 Nov 28 j 11:18 22°**8**41'36 -1°21'22 7°**耳**09'16 -0°49'57 min. Earth dist. -1718 Nov 28 j 14:08 22°841'24 28.95817 AU conjunction -1711 Jun 14 j 15:56 direct -1717 Feb 15 j 03:16 21°**8**16'37 minimum elong -1711 Jun 14 j 15:57 7°**耳**09'16 0°49'54 -1717 May 15 j 20:34 23°**8**11'59 max. Earth dist. -1711 Jun 14 j 05:31 7°**Д**08'18 31.03148 AU evening set -1711 Jun 30 j 22:30 7°**I**I45'11 morning rise -1717 Jun 01 j 05:01 23°848'04 -1°14'15 -1711 Sep 27 j 04:16 9°**Ⅱ**39'10 conjunction retrograde -1717 Jun 01 j 05:01 23°848'04 1°14'13 -1711 Dec 13 j 10:43 8°II15'57 -0°51'05 minimum elong opposition -1717 Jun 01 i 00:45 23°847'41 30.96202 AU 8°**Ц**15'20 29.03701 AU max. Earth dist. min. Earth dist. -1711 Dec 13 i 19:24 24°**8**24'07 6°II50′56 morning rise -1717 Jun 17 j 12:26 direct -1710 Mar 02 j 16:45 -1717 Sep 14 i 05:38 8°**Ⅱ**46'41 retrograde 26°818'56 evening set -1710 May 31 j 21:29 opposition -1717 Nov 30 j 21:34 24°855'07 -1°17'22 min. Earth dist. -1717 Dec 01 i 01:58 24°854'48 28.96731 AU conjunction -1710 Jun 17 i 05:46 9°II22'44 -0°45'36 direct -1716 Feb 17 j 13:48 23°830'06 minimum elong -1710 Jun 17 i 05:47 9°II22'44 0°45'35 -1716 May 17 j 10:26 25°**8**25'31 max. Earth dist. -1710 Jun 16 i 19:14 9°**Ⅲ**21'45 31.04164 AU evening set -1710 Jul 03 j 11:56 9°**I**158'37 morning rise -1710 Sep 29 j 14:08 11°**I**I52′26 conjunction -1716 Jun 02 j 18:55 26°801'36 -1°10'27 retrograde -1710 Dec 15 j 20:58 10°**I**I29'17 -0°46'25 minimum elong -1716 Jun 02 j 18:56 26°801'36 1°10'26 opposition -1710 Dec 16 j 07:20 10°**Ц**28'33 29.04657 AU max. Earth dist. -1716 Jun 02 j 13:47 26°801'07 30.97196 AU min. Earth dist. 9°**Ⅱ**04'14 morning rise -1716 Jun 19 j 02:17 26°**8**37'37 direct -1709 Mar 05 j 04:55 -1716 Sep 15 j 17:13 28°832'17 -1709 Jun 03 j 11:19 11°**II**00'00 retrograde evening set -1716 Dec 02 j 07:36 27°808'34 -1°13'14 opposition -1716 Dec 02 j 11:39 27°**8**08'16 28.97782 AU -1709 Jun 19 j 19:23 11°**Ⅲ**36′02 -0°41′12 min. Earth dist. conjunction 25°**8**43'32 -1709 Jun 19 j 19:23 11°**II**36'02 0°41'10 direct -1715 Feb 19 j 03:24 minimum elong 27°**8**39'00 -1709 Jun 19 j 06:43 evening set -1715 May 20 j 00:19 max. Earth dist. 11°**Ⅲ**34'51 31.05078 AU morning rise -1709 Jul 06 j 01:27 12°**Ⅱ**11'53 conjunction -1715 Jun 05 j 08:46 28°**8**15'05 -1°06'32 retrograde -1709 Oct 02 j 02:12 14°**Ⅱ**05'32 minimum elong -1715 Jun 05 j 08:47 28°**8**15'05 1°06'30 opposition -1709 Dec 18 j 07:09 12°**I**42'26 -0°41'40 max. Earth dist. -1715 Jun 05 j 02:45 28°**8**14'32 30.98314 AU min. Earth dist. -1709 Dec 18 j 17:36 12°**Ц**41'42 29.05517 AU -1715 Jun 21 j 16:00 28°**8**51'05 -1708 Mar 06 j 16:42 11°**Ⅱ**17′20 morning rise direct

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1708 in astronomical counting style is the year 1709 BCE in historical counting style. -1708 Jun 05 j 01:01 13°**Ⅱ**13'07 behind sun end -1702 Jul 05 i 20:42 27°**Ⅱ**04'28 evening set max. Earth dist. -1702 Jul 04 j 21:44 27°**Д**02'22 31.11401 AU -1708 Jun 21 j 08:59 13°**II**49'08 -0°36'44 -1702 Jul 21 j 18:45 27°**Ⅲ**39'36 morning rise conjunction -1708 Jun 21 j 08:59 13°II49'08 0°36'43 -1702 Oct 17 j 04:00 29° II 32′20 minimum elong retrograde -1708 Jun 20 j 19:54 13°**Ⅱ**47'55 31.05895 AU -1701 Jan 02 j 06:13 28° II 09'40 -0°07'20 max. Earth dist. opposition -1708 Jul 07 j 14:37 14°**Ⅲ**24'58 -1701 Jan 02 j 20:59 28°П08'38 29.12009 AU morning rise min. Earth dist. -1708 Oct 03 j 10:40 -1701 Mar 23 j 05:33 26°**Ⅱ**44'25 retrograde 16°**Ⅲ**18'27 direct -1708 Dec 19 j 17:24 14°**I**55'23 -0°36'53 28°**Ⅱ**40'28 opposition evening set -1701 Jun 21 j 21:58 -1701 Jul 07 j 11:08 min. Earth dist. -1708 Dec 20 j 05:45 14°**I**I54'31 29.06308 AU max. Earth dist. 29°**Ⅱ**14'44 31.12592 AU direct -1707 Mar 09 j 03:49 13°**Ⅲ**30′14 evening set -1707 Jun 07 j 14:35 15°**Ⅲ**26′02 conjunction -1701 Jul 08 j 04:08 29°**I**16'18 -0°04'34 -1701 Jul 08 j 04:07 29°**I**16'18 0°04'31 minimum elong -1707 Jun 23 j 22:20 16°**Ⅲ**02'01 -0°32'14 -1701 Jul 07 j 21:40 29°**Ⅱ**15'44 conjunction behind sun begin -1707 Jun 23 j 22:20 -1701 Jul 08 j 10:34 minimum elong 16°**耳**02'01 0°32'11 behind sun end 29° II 16′52 max. Earth dist. -1707 Jun 23 j 08:08 16°**Д**00'42 31.06680 AU morning rise -1701 Jul 24 j 07:04 29°**I**51'54 morning rise -1707 Jul 10 j 03:45 16°**Ⅲ**37'48 -1701 Jul 28 j 01:35 0ಂತಾ retrograde -1707 Oct 05 j 21:13 18°**Ⅲ**31'08 retrograde -1701 Oct 19 j 14:08 1°5544'32 opposition -1707 Dec 22 j 03:30 17°**耳**08'07 -0°32'02 opposition -1700 Jan 04 j 16:32 0°521'59 -0°02'20 min. Earth dist. -1707 Dec 22 j 15:38 17°**Д**07'15 29.07082 AU min. Earth dist. -1700 Jan 05 j 08:42 0°520'51 29.13197 AU direct -1706 Mar 11 j 16:56 15°**Ⅱ**42'54 -1700 Jan 17 j 22:01 30°R∏ evening set -1706 Jun 10 j 03:54 17°**Ⅲ**38'42 direct -1700 Mar 24 j 17:49 28°II56'46 -1700 May 28 i 03:52 0ಂತಾ conjunction -1706 Jun 26 j 11:26 18°**I**14'40 -0°27'41 evening set -1700 Jun 23 j 11:12 0°952'53 minimum elong -1706 Jun 26 j 11:26 18°**Ⅱ**14'40 0°27'39 asc. node -1700 Jun 24 j 10:57 0°955'02 max. Earth dist. -1706 Jun 25 j 20:28 18°**I**I13'17 31.07459 AU -1706 Jul 12 j 16:31 18°**Ⅲ**50′26 -1700 Jul 09 j 16:47 1°528'42 0°00'12 morning rise conjunction -1706 Oct 08 j 07:14 20°**Ⅱ**43'37 -1700 Jul 09 j 16:47 1°528'42 0°00'14 retrograde minimum elong opposition -1706 Dec 24 j 13:44 19°**Ⅲ**20'38 -0°27'10 -1700 Jul 09 j 10:17 1°928'08 behind sun begin -1706 Dec 25 j 03:17 19°**Ⅱ**19'41 29.07888 AU -1700 Jul 09 j 23:17 min. Earth dist. behind sun end 1°929'16 -1705 Mar 14 j 03:43 17°**I**55′22 max. Earth dist. -1700 Jul 08 j 22:06 direct 1°526'59 31.13767 AU evening set -1705 Jun 12 j 17:14 19°**Ⅲ**51'12 -1700 Jul 25 j 19:24 morning rise 2°904'15 -1705 Jun 28 j 09:28 20°**Д**25'44 31.08298 AU -1700 Oct 21 j 02:19 max. Earth dist. retrograde 3°956'49 -1699 Jan 06 j 02:46 opposition 2°534'22 0°02'40 -1699 Jan 06 j 18:44 2°533'15 29.14344 AU -1705 Jun 29 j 00:36 20°**I**127′08 -0°23′06 conjunction min. Earth dist. -1705 Jun 29 j 00:36 20°**II**27'08 0°23'04 -1699 Mar 27 j 05:27 1°999'11 minimum elong direct -1705 Jul 15 j 05:17 21°**Ⅲ**02'52 -1699 Jun 26 j 00:18 3°905'21 morning rise evening set -1705 Oct 10 j 17:50 22° **II** 55'54 -1699 Jul 11 j 10:42 retrograde max. Earth dist. 3°539'24 31.14862 AU opposition -1705 Dec 26 j 23:45 21°**Ⅲ**32'58 -0°22'15 min. Earth dist. -1705 Dec 27 j 13:13 21°**Д**32'02 29.08757 AU conjunction -1699 Jul 12 j 05:35 3°5541'08 0°04'57 direct -1704 Mar 15 j 16:54 20°**Ⅲ**07'41 minimum elong -1699 Jul 12 j 05:34 3°5541'08 0°04'59 -1704 Jun 14 j 06:38 22°II03'33 behind sun begin -1699 Jul 11 j 23:11 3°9540'34 evening set behind sun end -1699 Jul 12 j 11:58 3°5541'42 -1704 Jun 30 j 13:35 22° II 39'28 -0°18'29 -1699 Jul 28 j 07:33 4°9516'39 conjunction morning rise -1704 Jun 30 j 13:35 22°**II**39'28 0°18'28 -1699 Oct 23 j 10:38 6°909'08 minimum elong retrograde -1704 Jun 29 j 21:05 22°**Д**37'56 31.09218 AU -1698 Jan 08 j 13:14 4°5946'47 0°07'40 max. Earth dist. opposition -1704 Jul 16 i 17:56 23°**Ⅱ**15′09 -1698 Jan 09 i 07:00 morning rise min. Earth dist. 4°5945'32 29.15397 AU -1704 Oct 12 i 05:55 25°**Ⅱ**08'04 retrograde direct -1698 Mar 29 j 16:19 3°9521'36 -1704 Dec 28 i 09:59 23°**II**45'12 -0°17'18 opposition evening set -1698 Jun 28 j 13:18 5°9517'48 23°**Ⅱ**44'13 29.09743 AU min. Earth dist. -1704 Dec 29 i 00:06 direct -1703 Mar 18 i 04:51 22°**Ⅱ**19'54 -1698 Jul 14 j 18:06 5°953'33 0°09'35 conjunction -1703 Jun 16 i 19:38 24°**Ⅱ**15'50 -1698 Jul 14 i 18:07 5°953'33 0°09'37 evening set minimum elong max. Earth dist. -1703 Jul 02 j 10:33 24°**Д**50'15 31.10260 AU behind sun begin -1698 Jul 14 j 12:43 5°953'04 behind sun end -1698 Jul 14 j 23:30 5°954'02 -1698 Jul 13 j 22:05 conjunction -1703 Jul 03 j 02:26 24°II51'43 -0°13'51 max. Earth dist. 5°951'42 31.15859 AU minimum elong -1703 Jul 03 j 02:26 24°II51'43 0°13'49 morning rise -1698 Jul 30 j 19:42 6°9529'02 behind sun begin -1703 Jul 02 j 23:08 24°**I**51′25 retrograde -1698 Oct 25 j 20:49 8°921'25 behind sun end -1703 Jul 03 j 05:44 24°**I**52′00 opposition -1697 Jan 10 j 23:34 6°959'07 0°12'38 -1703 Jul 19 j 06:15 25°**Ⅲ**27'22 min. Earth dist. -1697 Jan 11 j 17:13 6°557'53 29.16324 AU morning rise -1703 Oct 14 j 16:10 27°**II**20'11 -1697 Apr 01 j 04:50 5°533'56 retrograde direct -1703 Dec 30 j 20:12 25°**I**57'25 -0°12'19 -1697 Jul 01 j 02:23 7°930'09 opposition evening set 25°**Ц**56'23 29.10830 AU -1697 Jul 16 j 09:46 min. Earth dist. -1703 Dec 31 j 10:51 max. Earth dist. 8°903'56 31.16716 AU direct -1702 Mar 20 j 18:14 24°**Ⅲ**32'08 -1697 Jul 17 j 06:45 evening set -1702 Jun 19 j 08:52 26°**Ⅲ**28'07 conjunction 8°905'52 0°14'13 minimum elong -1697 Jul 17 j 06:44 8°905'52 0°14'16 conjunction -1702 Jul 05 j 15:10 27°**Ⅱ**03'59 -0°09'13 behind sun begin -1697 Jul 17 j 03:46 8°905'36 -1702 Jul 05 j 15:11 27°**Ⅱ**03'59 0°09'12 behind sun end -1697 Jul 17 j 09:43 8°906'08 minimum elong -1702 Jul 05 j 09:39 27°**Ⅲ**03′29 morning rise -1697 Aug 02 j 07:45 8°5541'18 behind sun begin

Planetary Pheno	omena of Neptune f	rom -1900	through -1398	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 17
•	nical year style is used: Th		•				
retrograde	-1697 Oct 28 j 06:32	10° © 33'36		minimum elong	-1690 Aug 01 j 18:26	23° © 26'33	0°45'40
opposition	-1696 Jan 13 j 09:58	9° © 11'21	0°17'35	max. Earth dist.	-1690 Jul 31 j 19:31		31.21808 AU
min. Earth dist.	-1696 Jan 14 j 05:10		29.17131 AU	morning rise	-1690 Aug 17 j 15:21	24°901'38	
direct	-1696 Apr 02 j 14:38	7°9546'07	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	retrograde	-1690 Nov 12 j 05:31	25°953'22	
evening set	-1696 Jul 02 j 15:17	9°5642'22		opposition	-1689 Jan 28 j 10:49	24°931'17	0°51'00
evening set	1000 341 02 3 15.17) 3-12-22		min. Earth dist.	-1689 Jan 29 j 08:16		29.22347 AU
conjunction	-1696 Jul 18 j 19:14	10° © 18'02	0°18'50	direct	-1689 Apr 19 j 05:47	23°905'56	29.22347 AU
	·	10°5518'02	0°18'51			25°502'12	
minimum elong	-1696 Jul 18 j 19:14			evening set	-1689 Jul 19 j 05:50		21 22000 ATT
max. Earth dist.	-1696 Jul 17 j 21:58		31.17470 AU	max. Earth dist.	-1689 Aug 03 j 06:37	23 9933 24	31.22809 AU
morning rise	-1696 Aug 03 j 19:41	10°553'26			1600 4 04:05.56	250527124	0040155
retrograde	-1696 Oct 29 j 16:19	12°545'38	0000101	conjunction	-1689 Aug 04 j 05:56	25°937'34	
opposition	-1695 Jan 14 j 20:24	11°523'24		minimum elong	-1689 Aug 04 j 05:56	25°937'34	0°49'57
min. Earth dist.	-1695 Jan 15 j 15:40		29.17831 AU	morning rise	-1689 Aug 20 j 02:19	26°©12'37	
direct	-1695 Apr 05 j 04:12	9° © 58'08		retrograde	-1689 Nov 14 j 15:32	28° © 04'18	
evening set	-1695 Jul 05 j 03:59	11° © 54'22		opposition	-1688 Jan 30 j 21:15	26°5542'18	0°55'31
max. Earth dist.	-1695 Jul 20 j 08:41	12° © 27'54	31.18131 AU	min. Earth dist.	-1688 Jan 31 j 18:03		29.23361 AU
				direct	-1688 Apr 20 j 17:46	25° © 17'00	
conjunction	-1695 Jul 21 j 07:20	12° © 30'00	0°23'25	evening set	-1688 Jul 20 j 17:59	27° © 13'19	
minimum elong	-1695 Jul 21 j 07:20	12° © 30'00	0°23'27				
morning rise	-1695 Aug 06 j 07:19	13° © 05'21		conjunction	-1688 Aug 05 j 17:27	27° © 48'39	0°54'07
retrograde	-1695 Nov 01 j 03:28	14° © 57'27		minimum elong	-1688 Aug 05 j 17:27	27° 5 48'39	0°54'08
opposition	-1694 Jan 17 j 06:47	13° © 35'13	0°27'24	max. Earth dist.	-1688 Aug 04 j 17:53	27° © 46'27	31.23820 AU
min. Earth dist.	-1694 Jan 18 j 02:48	13° © 33'49	29.18478 AU	morning rise	-1688 Aug 21 j 13:09	28° © 23'39	
direct	-1694 Apr 07 j 16:04	12° © 09'55			-1688 Oct 17 j 03:23	$0 {\circ} \Omega$	
evening set	-1694 Jul 07 j 16:30	14° 5 06'08		retrograde	-1688 Nov 16 j 01:27	0° Ω 15′20	
	-			-	-1688 Dec 16 j 12:58	30°Rூ	
conjunction	-1694 Jul 23 j 19:31	14°9541'44	0°27'58	opposition	-1687 Feb 01 j 07:59	28°953'24	0°59'58
minimum elong	-1694 Jul 23 j 19:31	14°5541'44	0°27'59	min. Earth dist.	-1687 Feb 02 j 05:48	28° © 51'54	29.24378 AU
max. Earth dist.	-1694 Jul 22 j 21:25	14° © 39'41	31.18759 AU	direct	-1687 Apr 23 j 03:00	27°528'10	
morning rise	-1694 Aug 08 j 18:49	15° © 17'01		evening set	-1687 Jul 23 j 05:52	29°524'30	
retrograde	-1694 Nov 03 j 12:42	17°909'01		max. Earth dist.	-1687 Aug 07 j 05:25		31.24805 AU
opposition	-1693 Jan 19 j 17:04	15°9546'47	0°32'14				
min. Earth dist.	-1693 Jan 20 j 13:44		29.19100 AU	conjunction	-1687 Aug 08 j 04:46	29° © 59'47	0°58'14
direct	-1693 Apr 10 j 05:27	14°9521'26	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	-1687 Aug 08 j 04:46	29°959'47	0°58'16
evening set	-1693 Jul 10 j 05:07	16°917'40		minimum ciong	-1687 Aug 08 j 07:05	0°Ω	0 30 10
max. Earth dist.	-1693 Jul 25 j 07:57		31.19394 AU	morning rise	-1687 Aug 23 j 23:48	0° Ω 34'45	
max. Earth dist.	1075 Jul 25 j 07.57	10 331 02	31.17374710	retrograde	-1687 Nov 18 j 11:00	2° Ω 26'26	
conjunction	-1693 Jul 26 j 07:26	16° © 53'12	0032128	opposition	-1686 Feb 03 j 18:42	1° Ω 04'34	1°04'10
minimum elong	-1693 Jul 26 j 07:26	16°953'12		min. Earth dist.	-1686 Feb 04 j 16:24		29.25318 AU
morning rise	-1693 Aug 11 j 06:18	10 3 33 12	0 32 30	iiiii. Eattii tiist.	-1686 Mar 20 j 00:27	30°R©	29.23316 AU
-	-1693 Nov 06 j 00:09	17 \$2827 19°\$20'20		direct	-1686 Apr 25 j 15:54	29°539'22	
retrograde	•	17°958'07	0°37'01	direct	-1686 May 31 j 17:24	29 3 39 22	
opposition min. Earth dist.	-1692 Jan 22 j 03:25				-1686 Jul 25 j 17:58	0 %ℓ 1° Ω 35'45	
	-1692 Jan 22 j 23:50	17 930 42 16° 932' 44	29.19769 AU	evening set	-1000 Jul 25 J 17.36	1 6633 43	
direct	-1692 Apr 11 j 17:16			:	1606 A 10:16:00	20 0 1 0/50	1°02'16
evening set	-1692 Jul 11 j 17:20	18° © 28'58		conjunction	-1686 Aug 10 j 16:08	2° Ω 10'59	
	1602 1 1 27:10 14	10050407	002/155	minimum elong	-1686 Aug 10 j 16:08	2° Ω 10′59	
conjunction	-1692 Jul 27 j 19:14	19°504'27	0°36'55	max. Earth dist.	-1686 Aug 09 j 15:31		31.25690 AU
minimum elong	-1692 Jul 27 j 19:14	19°504'27	0°36'56	morning rise	-1686 Aug 26 j 10:36	2° Ω 45'54	
max. Earth dist.	-1692 Jul 26 j 20:45		31.20087 AU	retrograde	-1686 Nov 20 j 22:17	4° Ω 37'35	
morning rise	-1692 Aug 12 j 17:19	19° © 39'38		opposition	-1685 Feb 06 j 05:22	3° Ω 15'46	
retrograde	-1692 Nov 07 j 09:46	21° © 31'27		min. Earth dist.	-1685 Feb 07 j 03:39		29.26161 AU
opposition	-1691 Jan 23 j 13:56	20° © 09'16		direct	-1685 Apr 28 j 02:33	1° Ω 50'36	
min. Earth dist.	-1691 Jan 24 j 11:10		29.20514 AU	evening set	-1685 Jul 28 j 05:55	3° Ω 47'01	
direct	-1691 Apr 14 j 06:37	18° © 43'52		max. Earth dist.	-1685 Aug 12 j 03:33	4° {\l 19'58	31.26460 AU
evening set	-1691 Jul 14 j 05:39	20°\$\frac{95}{40}'06				_	
max. Earth dist.	-1691 Jul 29 j 07:21	21° © 13'22	31.20893 AU	conjunction	-1685 Aug 13 j 03:35	4° Ω 22'12	
				minimum elong	-1685 Aug 13 j 03:35	4° Ω 22'12	1°06'13
conjunction	-1691 Jul 30 j 06:50	21° © 15'32	0°41'19	morning rise	-1685 Aug 28 j 21:16	4° Ω 57'04	
minimum elong	-1691 Jul 30 j 06:50	21° © 15'32	0°41'21	retrograde	-1685 Nov 23 j 07:42	6° Ω 48'45	
morning rise	-1691 Aug 15 j 04:29	21° © 50'41		opposition	-1684 Feb 08 j 16:18	5° Ω 26'58	1°12'44
retrograde	-1691 Nov 09 j 21:07	23°5542'26		min. Earth dist.	-1684 Feb 09 j 15:16	5° Ω 25'23	29.26863 AU
opposition	-1690 Jan 26 j 00:16	22° © 20'17	0°46'24	direct	-1684 Apr 29 j 15:12	4° Ω 01'50	
min. Earth dist.	-1690 Jan 26 j 20:34	22° © 18'52	29.21383 AU	evening set	-1684 Jul 29 j 17:51	5° Ω 58'15	
direct	-1690 Apr 16 j 18:53	20°954'54					
evening set	-1690 Jul 16 j 17:40	22° © 51'09		conjunction	-1684 Aug 14 j 14:40	6° Ω 33'23	1°10'03
	-			minimum elong	-1684 Aug 14 j 14:40	6° Ω 33'23	1°10'03
conjunction	-1690 Aug 01 j 18:26	23°526'33	0°45'39	max. Earth dist.	-1684 Aug 13 j 13:15	6° Ω 31'01	31.27098 AU
	-				-		

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1684 in astronomical counting style is the year 1685 BCE in historical counting style. opposition -1684 Aug 30 j 07:51 7°**Ω**08'12 -1677 Feb 23 i 20:52 20°Ω42'26 1°38'32 morning rise -1684 Nov 24 j 19:28 8°Ω59'52 -1677 Feb 24 j 19:17 20°**Ω**40'54 29.30367 AU min. Earth dist. retrograde -1683 Feb 10 j 03:11 7°**Ω**38'07 1°16'47 -1677 May 16 j 04:02 direct 19°**Ω**17'22 opposition min. Earth dist. -1683 Feb 11 j 01:52 7°**Ω**36'33 29.27451 AU -1677 Aug 15 j 01:19 21°**Ω**13'41 evening set direct -1683 May 02 j 02:55 6°**Ω**12'59 evening set -1683 Aug 01 j 05:31 8°**Ω**09'24 conjunction -1677 Aug 30 j 17:37 21°**Ω**48′29 1°33'47 1°33'48 max. Earth dist. -1683 Aug 16 j 01:17 8°**Ω**42'12 31.27621 AU minimum elong -1677 Aug 30 j 17:37 21°**Ω**48'29 max. Earth dist. -1677 Aug 29 j 17:10 21°**Ω**46'12 31.30603 AU conjunction -1683 Aug 17 j 01:53 8°**Ω**44'29 1°13'47 morning rise -1677 Sep 15 j 06:21 22°**Ω**22'59 minimum elong -1683 Aug 17 j 01:53 8°**Ω**44'29 1°13'49 retrograde -1677 Dec 10 j 15:17 24°**Ω**14'40 morning rise -1683 Sep 01 j 18:15 9°**Ω**19'15 opposition -1676 Feb 26 j 08:02 22°**Ω**52'58 1°41'42 -1676 Feb 27 j 06:15 retrograde -1683 Nov 27 j 05:26 11°**Ω**10′54 min. Earth dist. 22°**Ω**51'27 29.31065 AU -1676 May 17 j 13:28 opposition -1682 Feb 12 j 14:04 9°**Ω**49'10 1°20'43 direct 21°**Ω**27'58 min. Earth dist. -1682 Feb 13 j 13:50 9°**Ω**47'31 29.27933 AU evening set -1676 Aug 16 j 12:10 23°**Ω**24'17 direct -1682 May 04 j 16:31 8°**Ω**24'02 max. Earth dist. -1676 Aug 31 j 04:51 23°**Ω**56'53 31.31307 AU evening set -1682 Aug 03 j 17:10 10°**Ω**20'26 max. Earth dist. -1682 Aug 18 j 11:06 10°**Ω**53'05 31.28067 AU conjunction -1676 Sep 01 j 03:57 23°Ω59'03 1°36'40 minimum elong -1676 Sep 01 j 03:57 23°**Ω**59'03 1°36'41 conjunction -1682 Aug 19 j 12:46 10°Ω55'28 1°17'25 morning rise -1676 Sep 16 j 15:56 24°**£**33'30 minimum elong -1682 Aug 19 j 12:45 10°Ω55'28 1°17'26 retrograde -1676 Dec 12 j 00:33 26°**Ω**25'14 morning rise -1682 Sep 04 j 04:41 11°**Ω**30′11 opposition -1675 Feb 27 j 19:22 25°Ω03'35 1°44'42 retrograde -1682 Nov 29 j 16:48 13°**Ω**21'49 min. Earth dist. -1675 Feb 28 i 17:47 25°**Ω**02'03 29.31762 AU opposition -1681 Feb 15 i 00:53 12°Ω00'04 1°24'33 -1675 May 20 i 00:55 23°**Ω**38'39 direct min. Earth dist. -1681 Feb 15 i 23:48 11°Ω58'29 29.28351 AU evening set -1675 Aug 18 j 23:12 25°**Ω**34'58 -1681 May 07 j 05:29 10°**Ω**34'55 direct -1681 Aug 06 j 04:36 12°**Ω**31'18 -1675 Sep 03 j 14:11 26°Ω09'41 1°39'25 evening set conjunction -1675 Sep 03 j 14:10 26°Ω09'41 1°39'26 minimum elong -1681 Aug 21 j 23:38 13°Ω06'18 1°20'56 -1675 Sep 02 j 14:14 conjunction max. Earth dist. 26°**Ω**07'27 31.31987 AU -1681 Aug 21 j 23:38 -1675 Sep 19 j 01:44 26° **Ω**44'06 13°Ω06'18 1°20'58 morning rise minimum elong -1681 Aug 20 j 22:34 13°**Ω**03'58 31.28458 AU -1675 Dec 14 j 12:31 28°**Ω**35'53 max. Earth dist. retrograde -1681 Sep 06 j 14:46 opposition -1674 Mar 02 j 06:31 13°**Ω**40'58 27°Ω14'16 1°47'34 morning rise -1681 Oct 18 j 22:28 15°€ min. Earth dist. -1674 Mar 03 j 04:18 27°**Ω**12'47 29.32421 AU -1681 Dec 02 j 00:54 15°**£**32'34 -1674 May 22 j 12:05 25°**Ω**49'24 retrograde direct -1680 Jan 16 j 12:33 -1674 Aug 21 j 10:03 27°**Ω**45'43 15°**Ŗ**Ω evening set 14°**Ω**10'49 1°28'14 -1680 Feb 17 j 11:54 -1674 Sep 05 j 01:41 28° **Ω**18'15 31.32585 AU opposition max. Earth dist. -1680 Feb 18 j 11:49 min. Earth dist. 14°**Ω**09'10 29.28754 AU -1674 Sep 06 j 00:34 28°**Ω**20'23 1°42'01 direct -1680 May 08 j 17:05 12°**Ω**45'40 conjunction -1680 Aug 07 j 15:58 14°**Ω**42'01 minimum elong -1674 Sep 06 j 00:34 28°**Ω**20′23 1°42'02 evening set -1680 Aug 15 j 20:05 15°€ -1674 Sep 21 j 11:23 28°**Ω**54'46 morning rise max. Earth dist. -1680 Aug 22 j 09:15 15°**Ω**14'38 31.28878 AU -1674 Oct 24 j 17:01 0° m -1674 Dec 16 j 22:57 0° m/ 46'37 retrograde -1680 Aug 23 j 10:16 15°**Ω**16'58 1°24'20 -1673 Feb 10 j 16:17 30°RΩ conjunction -1680 Aug 23 j 10:16 15°**Ω**16'58 1°24'21 -1673 Mar 04 j 18:04 29°**Ω**25'00 1°50'16 minimum elong opposition -1680 Sep 08 j 00:51 15°**Ω**51'35 -1673 Mar 05 j 16:43 29°**Ω**23'28 29.32963 AU morning rise min. Earth dist. -1680 Dec 03 j 10:31 17°**Ω**43'11 -1673 May 25 j 01:05 28°**Ω**00'12 retrograde direct -1679 Feb 18 i 22:53 16°Ω21'25 1°31'48 opposition evening set -1673 Aug 23 j 21:01 29° Ω56'30 min. Earth dist. -1679 Feb 19 i 21:38 16°**Ω**19'51 29.29203 AU -1673 Aug 25 i 11:28 0° m -1679 Apr 25 j 20:42 15°RΩ max. Earth dist. -1673 Sep 07 j 11:04 0° m 28'55 31.33060 AU direct -1679 May 11 i 05:41 14°Ω56'17 -1679 May 26 j 08:29 15°Ω -1673 Sep 08 j 10:45 0° mb 31'07 1° 44'29 conjunction -1679 Aug 10 j 03:03 16°**Ω**52'37 -1673 Sep 08 j 10:45 0° m 31'07 1°44'30 evening set minimum elong -1673 Sep 23 j 21:07 1° m 05'27 morning rise -1679 Aug 25 j 20:42 17°**Ω**27'30 1°27'36 -1673 Dec 19 j 10:30 2°m 57'21 conjunction retrograde -1679 Aug 25 j 20:42 minimum elong 17°Ω27'30 1°27'38 opposition -1672 Mar 06 j 05:32 1°m 35'45 1°52'49 -1672 Mar 07 j 03:10 max. Earth dist. -1679 Aug 24 j 19:55 17°**Ω**25'12 31.29358 AU min. Earth dist. 1° m/34'17 29.33369 AU -1679 Sep 10 j 10:37 18°**Ω**02'05 direct -1672 May 26 j 13:37 0° m 10'59 morning rise -1679 Dec 05 j 20:01 19°**Ω**53'42 evening set -1672 Aug 25 j 07:51 2° Mp 07'16 retrograde -1678 Feb 21 j 09:57 18°Ω31'57 1°35'14 opposition -1678 Feb 22 j 09:05 18°**Ω**30'21 29.29745 AU -1672 Sep 09 j 21:03 2° m 41'51 1°46'47 min. Earth dist. conjunction 17°**Ω**06′50 direct -1678 May 13 j 15:16 minimum elong -1672 Sep 09 j 21:02 2° m/41'51 1°46'48 19°**Ω**03'09 evening set -1678 Aug 12 j 14:10 max. Earth dist. -1672 Sep 08 j 21:49 2° m/39'41 31.33380 AU max. Earth dist. -1678 Aug 27 j 07:19 19°**Ω**35'46 31.29944 AU morning rise -1672 Sep 25 j 06:44 3° Mp 16'08 retrograde -1672 Dec 20 j 19:53 5° m 08'05 conjunction -1678 Aug 28 j 07:14 19°**Ω**37'59 1°30'45 opposition -1671 Mar 08 j 17:16 3° Mp 46'29 1°55'12 min. Earth dist. minimum elong -1678 Aug 28 j 07:13 19°**Ω**37'59 1°30'46 -1671 Mar 09 j 15:54 3° m/44'56 29.33625 AU -1678 Sep 12 j 20:29 20°Ω12'31 -1671 May 29 j 01:30 morning rise direct 2° m 21'44 -1678 Dec 08 j 04:31 22°**Ω**04'09 -1671 Aug 27 j 18:30 4° m 17'58 retrograde evening set

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1671 in astronomical counting style is the year 1672 BCE in historical counting style. max. Earth dist. -1671 Sep 11 j 07:51 4° m 50'20 31.33563 AU min. Earth dist. -1664 Mar 24 i 22:43 18° m 57'24 29.33622 AU 17° m/34'11 -1664 Jun 13 j 10:56 direct -1671 Sep 12 j 07:05 4° m 52'30 1°48'56 -1664 Sep 11 j 18:16 19° m 30'04 conjunction evening set -1671 Sep 12 j 07:05 -1664 Sep 26 j 07:20 20° m 02'31 31.33553 AU 4° m 52'30 1°48'57 max. Earth dist. minimum elong -1671 Sep 27 j 16:19 morning rise 5° M 26'46 -1671 Dec 23 j 06:03 -1664 Sep 27 j 02:59 retrograde 7° Mp 18'44 conjunction 20° Mp 04'21 1°59'32 -1670 Mar 11 j 04:49 -1664 Sep 27 j 02:59 opposition 5° m 57'07 1°57'26 minimum elong 20° Mp 04'211°59'33 -1664 Oct 12 j 09:01 min. Earth dist. -1670 Mar 12 j 02:33 5° M 55'38 29.33727 AU morning rise 20° m 38'25 direct -1670 May 31 j 14:57 4° Mp 32'23 retrograde -1663 Jan 07 j 05:38 22° m 30'53 evening set -1670 Aug 30 j 05:10 6° m 28'33 opposition -1663 Mar 26 j 15:01 21° Mp 09'03 2°08'09 min. Earth dist. -1663 Mar 27 j 08:51 21° m 07'51 29.33777 AU -1670 Sep 14 j 17:09 7° mg 03'03 1°50'57 -1663 Jun 15 j 22:22 conjunction direct 19° m 44'35 -1670 Sep 14 j 17:08 -1663 Sep 14 j 04:04 minimum elong 7° mg 03'03 1°50'57 evening set 21° Mp 40'27 max. Earth dist. -1670 Sep 13 j 17:46 7° m 00'52 31.33593 AU morning rise -1670 Sep 30 j 01:51 7°m/37'17 conjunction -1663 Sep 29 j 12:25 22° m 14'44 2°00'23 retrograde -1670 Dec 25 j 15:48 9°m/29'18 minimum elong -1663 Sep 29 j 12:25 22° m 14'44 2°00'23 opposition -1669 Mar 13 j 16:24 8° Mp 07'37 1°59'29 max. Earth dist. -1663 Sep 28 j 17:44 22° m 12'58 31.33701 AU min. Earth dist. -1669 Mar 14 j 14:42 8° Mp 06'06 29.33713 AU morning rise -1663 Oct 14 j 18:00 22° m 48'46 direct -1669 Jun 03 j 01:38 6° Tp 42'54 retrograde -1662 Jan 09 j 15:39 24° m/41'22 evening set -1669 Sep 01 j 15:39 8° m 39'01 opposition -1662 Mar 29 j 03:04 23° m 19'32 2°08'57 max. Earth dist. -1669 Sep 16 j 04:43 9° m 11'22 31.33535 AU min. Earth dist. -1662 Mar 29 j 21:29 23° m 18'17 29.33916 AU direct -1662 Jun 18 j 10:02 21° m 55'10 conjunction -1669 Sep 17 i 03:07 9° m 13'28 1°52'47 evening set -1662 Sep 16 j 14:01 23° m 51'00 minimum elong -1669 Sep 17 i 03:07 9° m 13'28 1°52'48 morning rise -1669 Oct 02 j 11:16 9° m 47'40 conjunction -1662 Oct 01 j 21:52 24° m 25'14 2°01'03 -1669 Dec 28 j 00:11 11° m 39'43 -1662 Oct 01 j 21:52 24° m 25'14 2°01'03 retrograde minimum elong opposition -1668 Mar 15 j 04:07 10° m 18'00 2°01'22 max. Earth dist. -1662 Oct 01 j 03:44 24° m 23'32 31.33815 AU -1668 Mar 16 j 01:40 -1662 Oct 17 j 03:07 24° m 59'16 min. Earth dist. 10° Mp 16'32 29.33619 AU morning rise -1668 Jun 04 j 14:44 -1661 Jan 12 j 02:40 8° m 53'17 retrograde 26° m 51'58 direct 25° m 30'09 2°09'35 -1668 Sep 03 j 01:56 10° m 49'19 -1661 Mar 31 j 15:02 opposition evening set -1661 Apr 01 j 08:11 25° m 28'59 29.33982 AU min. Earth dist. -1668 Sep 18 j 12:43 11° m/23'45 1°54'28 conjunction -1661 Jun 20 j 23:32 24° m 05'51 direct -1668 Sep 18 j 12:42 11° m 23'45 1°54'28 -1661 Sep 18 j 24:00 26° m 01'39 minimum elong evening set -1668 Sep 17 j 13:56 11° Mp 21'36 31.33428 AU max. Earth dist. -1661 Oct 04 j 07:22 -1668 Oct 03 j 20:29 26° m 35'53 2°01'33 morning rise 11° **m** 57'54 conjunction 13°**m** 50'01 -1668 Dec 29 j 10:37 -1661 Oct 04 j 07:22 26° m 35'53 2°01'33 retrograde minimum elong -1661 Oct 03 j 13:18 26° m/34'11 31.33829 AU opposition -1667 Mar 17 j 15:51 12° m 28'14 2°03'05 max. Earth dist. min. Earth dist. -1667 Mar 18 j 12:52 12° m 26'48 29.33529 AU morning rise -1661 Oct 19 j 12:17 27° Mp 09'54 direct -1667 Jun 07 j 00:30 11° Mp 03'32 retrograde -1660 Jan 14 j 13:25 29° M 02'42 -1667 Sep 05 j 12:03 12° m 59'30 opposition -1660 Apr 02 j 03:19 27° m/40'52 2°10'01 evening set min. Earth dist. -1660 Apr 02 j 20:42 27° m/39'41 29.33951 AU -1667 Sep 20 j 22:27 13° m 33'54 1°55'59 -1660 Jun 22 j 10:22 26° m 16'38 conjunction direct -1667 Sep 20 j 22:27 13° m 33'54 1°56'00 -1660 Sep 20 j 09:43 28° m 12'23 minimum elong evening set -1667 Sep 20 j 01:23 13° m/31'55 31.33349 AU max. Earth dist. -1667 Oct 06 j 05:37 14°M)08'01 -1660 Oct 05 j 16:46 28° Mp 46'35 2°01'52 morning rise conjunction -1667 Dec 31 i 19:25 -1660 Oct 05 i 16:46 retrograde 16° Mp 00'12 minimum elong 28° m 46'35 2°01'52 -1666 Mar 20 i 03:30 -1660 Oct 04 i 23:53 opposition 14° m 38'23 2°04'37 max. Earth dist. 28° m 45'00 31.33731 AU min. Earth dist. -1666 Mar 21 i 00:17 14° m 36'58 29.33479 AU morning rise -1660 Oct 20 j 21:19 29° m 20'35 direct -1666 Jun 09 j 11:53 13° m 13'42 -1660 Nov 08 j 16:53 0∘**⊽** evening set -1666 Sep 07 j 22:17 15° m 09'39 -1659 Jan 15 i 21:56 1°**£**13'30 retrograde max. Earth dist. -1666 Sep 22 j 10:35 15° m 41'59 31.33340 AU -1659 Mar 30 j 11:45 30°R ₩ -1659 Apr 04 j 15:36 29° m 51'38 2°10'17 opposition -1666 Sep 23 j 07:59 15° mp 44'00 1°57'20 min. Earth dist. -1659 Apr 05 j 08:12 29° m 50'31 29.33773 AU conjunction -1659 Jun 24 j 23:18 minimum elong -1666 Sep 23 j 07:59 15° Mp 44'00 1°57'20 direct 28° m 27'27 -1666 Oct 08 j 14:52 -1659 Sep 12 j 00:38 morning rise 16° Mp 18'06 0∘∙თ 18° Mp 10'21 -1659 Sep 22 j 19:39 retrograde -1665 Jan 03 j 07:14 evening set 0°**£**23'07 opposition -1665 Mar 22 j 15:14 16° m 48'31 2°05'58 max. Earth dist. -1659 Oct 07 j 08:39 0°**2**55'39 31.33482 AU -1665 Mar 23 j 10:37 16° Mp 47'13 29.33517 AU min. Earth dist. -1665 Jun 11 j 22:48 15° m 23'54 -1659 Oct 08 j 02:12 0°£57'18 2°02'01 direct conjunction -1665 Sep 10 j 08:13 -1659 Oct 08 j 02:12 2°02'01 evening set 17° m 19'48 minimum elong 0°**£**57'18 -1659 Oct 23 j 06:36 morning rise 1°**£**31'18 conjunction -1665 Sep 25 j 17:33 17° m 54'08 1°58'31 retrograde -1658 Jan 18 j 08:29 3°**£**24'18 minimum elong -1665 Sep 25 j 17:33 17° **m** 54'08 1°58'32 opposition -1658 Apr 07 j 03:44 2°**£**02'23 2°10'21 max. Earth dist. -1665 Sep 24 j 21:53 17° Mp 52'17 31.33410 AU min. Earth dist. -1658 Apr 07 j 19:59 2°**2**01'17 29.33458 AU morning rise -1665 Oct 10 j 23:50 18° m 28'12 direct -1658 Jun 27 j 09:19 0°**£**38'13 -1664 Jan 05 j 17:45 20° m 20'34 -1658 Sep 25 j 05:21 2°**£**33'49 retrograde evening set -1664 Mar 24 j 03:12 18° m 58'44 2°07'09 opposition

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1658 in astronomical counting style is the year 1659 BCE in historical counting style. -1658 Oct 10 j 11:43 3°**♀**07'59 2°02'00 direct -1651 Jul 12 j 18:45 15°**♀**50'47 conjunction -1658 Oct 10 j 11:43 3°**2**07'59 2°02'00 evening set -1651 Oct 09 j 22:39 17°**£**45'46 minimum elong 3°**2**06'28 31.33092 AU -1658 Oct 09 j 19:37 max. Earth dist. -1651 Oct 25 j 03:09 18°**♀**19'50 1°57'04 -1658 Oct 25 j 15:42 3°<u>₽</u>41'58 conjunction morning rise -1657 Jan 20 j 17:39 -1651 Oct 25 j 03:10 18°**♀**19'50 1°57'03 retrograde 5°**£**35'02 minimum elong -1651 Oct 24 j 17:26 opposition -1657 Apr 09 j 16:08 4°**£**13′04 2°10'14 max. Earth dist. 18° **2**18'55 31.29895 AU -1651 Nov 09 j 06:10 min. Earth dist. -1657 Apr 10 j 08:20 4°**£**11'58 29.32993 AU morning rise 18°**£**53'49 direct -1657 Jun 29 j 21:21 2°**-**48'55 retrograde -1650 Feb 04 j 20:46 20°**£**47'34 evening set -1657 Sep 27 j 15:00 4°**£**44'24 opposition -1650 Apr 25 j 06:58 19°**≙**25'09 2°04'20 19°**≏**24'31 29.29894 AU min. Earth dist. -1650 Apr 25 j 16:25 conjunction -1657 Oct 12 j 20:51 5°**2**18'32 2°01'49 direct -1650 Jul 15 j 07:22 18°**£**01'16 -1657 Oct 12 j 20:51 -1650 Oct 12 j 07:58 minimum elong 5°**£**18'33 2°01'49 evening set 19°**£**56'11 max. Earth dist. -1657 Oct 12 j 04:24 5°**£**17'00 31.32582 AU morning rise -1657 Oct 28 j 00:47 5°**£**52'32 conjunction -1650 Oct 27 j 12:09 20°**♀**30'16 1°55'40 retrograde -1656 Jan 23 j 05:01 7°**£**45'40 minimum elong -1650 Oct 27 j 12:09 20°**♀**30'16 1°55'39 opposition -1656 Apr 11 j 04:29 6°**£**23'36 2°09'57 max. Earth dist. -1650 Oct 27 j 02:14 20°**2**29'20 31.29645 AU morning rise min. Earth dist. -1656 Apr 11 j 19:23 6°**£**22'36 29.32441 AU -1650 Nov 11 j 15:15 21°**♀**04'16 direct -1656 Jul 01 j 08:25 4°**£**59'27 retrograde -1649 Feb 07 j 08:15 22°**£**58'09 evening set -1656 Sep 29 j 00:26 6°**£**54'50 opposition -1649 Apr 27 j 19:39 21°**♀**35'44 2°02'45 min. Earth dist. -1649 Apr 28 j 04:14 21°**≏**35′09 29.29635 AU 2°01'27 conjunction -1656 Oct 14 j 06:07 7°**-**28'57 direct -1649 Jul 17 j 17:27 20° £ 11'56 minimum elong -1656 Oct 14 i 06:07 7°**£**28'57 2°01'27 evening set -1649 Oct 14 j 17:03 22°**£**06'48 max. Earth dist. -1656 Oct 13 j 15:17 7°**2**27'33 31.32000 AU morning rise -1656 Oct 29 j 09:44 8°**♀**02'55 conjunction -1649 Oct 29 i 21:14 22°**♀**40'53 1°54'07 retrograde -1655 Jan 24 j 15:08 9°**£**56'09 -1649 Oct 29 j 21:14 22°**♀**40'53 1°54'06 minimum elong opposition -1655 Apr 13 j 16:53 8°**£**33'59 2°09'28 max. Earth dist. -1649 Oct 29 j 13:12 22°**£**40'08 31.29359 AU -1655 Apr 14 j 07:55 8°**2**32'58 29.31853 AU -1649 Nov 14 j 00:08 min. Earth dist. morning rise 23°**£**14'53 -1655 Jul 03 j 19:50 7°**£**09'49 -1648 Feb 09 j 18:10 25°**£**08'57 retrograde direct -1655 Oct 01 j 09:47 9°**₽**05'06 -1648 Apr 29 j 08:30 opposition 23°**△**46'30 2°01'00 evening set -1648 Apr 29 j 16:46 23°**2**45'56 29.29306 AU min. Earth dist. -1655 Oct 16 j 15:06 9°**2**39'12 2°00'55 -1648 Jul 19 j 05:14 conjunction 22°**£**22'48 direct -1648 Oct 16 j 02:26 24°**£**17'36 -1655 Oct 16 j 15:07 9°**2**39'12 2°00'54 minimum elong evening set max. Earth dist. -1655 Oct 16 j 00:36 9°**♀**37'50 31.31427 AU -1655 Oct 31 j 18:40 -1648 Oct 31 j 06:19 24°**£**51'41 1°52'23 morning rise 10°**£**13′10 conjunction -1654 Jan 27 j 02:32 -1648 Oct 31 j 06:19 retrograde 12°**♀**06'28 minimum elong 24°**£**51'41 1°52'22 -1654 Apr 16 j 05:10 -1648 Oct 30 j 22:05 opposition 10°**£**44'12 2°08'48 max. Earth dist. 24°**♀**50'54 31.28996 AU -1654 Apr 16 j 18:10 min. Earth dist. 10°**△**43'20 29.31296 AU morning rise -1648 Nov 15 j 09:24 25°**£**25'42 direct -1654 Jul 06 j 07:07 9°**£**20'03 retrograde -1647 Feb 11 j 06:16 27°**♀**19'54 -1654 Oct 03 j 19:05 11°**2**15'15 opposition -1647 May 01 j 21:11 25°**♀**57'26 1°59'04 evening set max. Earth dist. -1654 Oct 18 j 10:48 11°**♀**48'05 31.30899 AU min. Earth dist. -1647 May 02 j 04:08 25°**♀**56'58 29.28889 AU direct -1647 Jul 21 j 15:29 24°**£**33'47 -1654 Oct 19 j 00:09 11°**-**249′20 2°00′12 -1647 Oct 18 j 11:38 26°**£**28'32 conjunction evening set -1654 Oct 19 j 00:09 11°**≏**49'20 minimum elong 2°00'11 -1654 Nov 03 j 03:29 12°**≏**23'18 -1647 Nov 02 j 15:34 27°**2**02'38 1°50'30 morning rise conjunction -1653 Jan 29 j 13:02 -1647 Nov 02 j 15:35 retrograde 14°**♀**16'42 minimum elong 27°**₽**02'38 1°50'29 -1647 Nov 02 i 08:39 opposition -1653 Apr 18 j 17:37 12°**♀**54'22 2°07'58 max. Earth dist. 27°**2**01'58 31.28508 AU min. Earth dist. -1653 Apr 19 i 06:36 12°**£**53'29 29.30818 AU morning rise -1647 Nov 17 j 18:34 27°**♀**36'40 direct -1653 Jul 08 j 19:01 11°**♀**30'15 retrograde -1646 Feb 13 i 17:11 29°**₽**31'00 evening set -1653 Oct 06 i 04:21 13°**£**25′21 opposition -1646 May 04 i 10:07 28°**₽**08'29 1°56'58 min. Earth dist. -1646 May 04 i 17:23 28°**♀**08'00 29.28328 AU -1653 Oct 21 i 09:11 13°**£**59'26 1°59'20 direct -1646 Jul 24 j 02:12 26°**₽**44'55 conjunction evening set -1653 Oct 21 i 09:12 13°**£**59'26 1°59'19 -1646 Oct 20 j 20:57 28°**₽**39'35 minimum elong max. Earth dist. -1653 Oct 20 j 21:08 13°**♀**58'18 31.30483 AU morning rise -1653 Nov 05 j 12:23 14°**♀**33'23 conjunction -1646 Nov 05 j 00:43 29°**£**13'40 1°48'27 retrograde -1652 Feb 01 j 00:24 16°**£**26'53 minimum elong -1646 Nov 05 j 00:43 29°**№**13'40 1°48'26 opposition -1652 Apr 20 j 06:02 15°**≏**04'31 2°06'56 max. Earth dist. -1646 Nov 04 j 17:56 29° **2**13'02 31.27886 AU min. Earth dist. -1652 Apr 20 j 17:02 15°**♀**03'46 29.30441 AU morning rise -1646 Nov 20 j 03:49 29°**₽**47'44 -1652 Jul 10 j 08:10 13°**£**40'28 -1646 Nov 25 j 18:26 0°M direct -1652 Oct 07 j 13:30 -1645 Feb 16 j 05:19 evening set 15°**≏**35'30 retrograde 1°M42'11 0°M19'37 1°54'43 opposition -1645 May 06 j 22:56 -1652 Oct 22 j 18:04 0°**IL**19'14 29.27624 AU conjunction 16°**2**09'34 1°58'17 min. Earth dist. -1645 May 07 j 04:27 minimum elong -1652 Oct 22 j 18:04 16°**♀**09'34 1°58'16 -1645 May 19 j 04:45 30°R<u>₽</u> max. Earth dist. -1652 Oct 22 j 06:34 16°**2**08'29 31.30154 AU direct -1645 Jul 26 j 13:02 28°**£**56'04 morning rise -1652 Nov 06 j 21:15 16°**£**43'32 -1645 Sep 28 j 15:17 0°M retrograde -1651 Feb 02 j 11:34 18°**△**37'10 evening set -1645 Oct 23 j 06:11 0°M50'39 -1651 Apr 22 j 18:35 17°**♀**14'45 2°05'43 opposition -1651 Apr 23 j 05:15 17°**♀**14'02 29.30154 AU -1645 Nov 07 j 09:56 1°M24'45 1°46'16 min. Earth dist. conjunction

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1645 in astronomical counting style is the year 1646 BCE in historical counting style. -1645 Nov 07 i 09:56 1°M24'45 1°46'15 -1638 Jun 15 i 07:31 15°RM minimum elong 1°M24'10 31.27119 AU -1645 Nov 07 i 03:48 -1638 Aug 10 j 23:55 14°ML13'35 max. Earth dist. direct -1645 Nov 22 j 13:07 -1638 Oct 03 j 16:31 1°M,58'50 15°M. morning rise -1638 Nov 06 j 21:20 -1644 Feb 18 j 16:58 3°M53'24 16°M07'31 retrograde evening set -1644 May 08 j 11:58 opposition 2°M30'44 1°52'17 -1644 May 08 j 17:49 16°M41'43 1°26'49 2°M30'21 29.26804 AU -1638 Nov 22 j 01:24 min. Earth dist. conjunction -1644 Jul 28 j 01:02 -1638 Nov 22 j 01:24 direct 1°M07'13 minimum elong 16°M41'43 1°26'48 evening set -1644 Oct 24 j 15:13 3°M01'42 max. Earth dist. -1638 Nov 22 j 02:54 16°M41'51 31.21757 AU morning rise -1638 Dec 07 j 05:47 17°M15'58 conjunction -1644 Nov 08 j 19:02 3°M35'48 1°43'55 retrograde -1637 Mar 05 j 22:27 19°M11'21 minimum elong -1644 Nov 08 j 19:02 3°M35'48 1°43'53 opposition -1637 May 25 j 06:25 17°M48'13 1°31'00 max. Earth dist. -1644 Nov 08 j 14:06 3°M35'20 31.26266 AU min. Earth dist. -1637 May 25 j 04:57 17°M48'19 29.21534 AU morning rise -1644 Nov 23 j 22:19 4°M09'53 direct -1637 Aug 13 j 10:14 16°M24'58 retrograde -1643 Feb 20 j 05:18 6°ML04'33 evening set -1637 Nov 09 j 06:28 18°M18'50 opposition -1643 May 11 j 00:47 4°M41'48 1°49'42 min. Earth dist. -1643 May 11 j 04:56 conjunction -1637 Nov 24 j 10:38 18°M53'03 1°23'30 direct -1643 Jul 30 j 14:20 3°M18'17 minimum elong -1637 Nov 24 j 10:38 18°M53'03 1°23'28 evening set -1643 Oct 27 j 00:22 $5^{\circ}\text{ML}12^{\prime}40$ max. Earth dist. -1637 Nov 24 j 12:46 18°M53'15 31.21179 AU morning rise -1637 Dec 09 j 15:19 19°M27'20 conjunction -1643 Nov 11 j 04:03 5°M46'47 1°41'25 retrograde -1636 Mar 07 j 11:09 21°M22'52 minimum elong -1643 Nov 11 j 04:03 5°M46'47 1°41'24 opposition -1636 May 26 j 19:28 19°M59'41 1°27'22 max. Earth dist. -1643 Nov 10 j 23:23 5°M46'20 31.25356 AU min. Earth dist. -1636 May 26 j 16:03 19°M 59'55 29.20931 AU morning rise -1643 Nov 26 i 07:34 6°M20'54 direct -1636 Aug 14 j 20:45 18°M36'30 retrograde -1642 Feb 22 i 16:38 8°M15'39 evening set -1636 Nov 10 j 15:38 20°M30'19 opposition -1642 May 13 j 13:34 6°M52'48 1°46'58 -1642 May 13 j 17:27 -1636 Nov 25 j 19:55 21°ML04'32 1°20'03 min. Earth dist. 6°M52'32 29.25004 AU conjunction -1642 Aug 02 j 01:06 -1636 Nov 25 j 19:55 1°20'01 5°M,29'17 minimum elong 21°M,04'32 direct -1642 Oct 29 j 09:21 -1636 Nov 25 j 22:42 21°ML04'48 31.20542 AU 7°M23'34 max. Earth dist. evening set morning rise -1636 Dec 11 j 00:54 21°M38'52 -1642 Nov 13 j 13:11 7°M57'41 1°38'47 -1635 Mar 09 j 23:35 conjunction retrograde 23°M₂34'33 -1635 May 29 j 08:43 -1642 Nov 13 j 13:12 7°M57'42 1°38'45 opposition 22°M11'19 1°23'37 minimum elong -1635 May 29 j 05:38 max. Earth dist. -1642 Nov 13 j 10:30 7°ML57'26 31.24479 AU min. Earth dist. 22°M11'31 29.20253 AU -1642 Nov 28 j 16:42 8°M31'50 -1635 Aug 17 j 07:43 20°M48'11 morning rise direct -1641 Feb 25 j 02:16 -1635 Nov 13 j 00:55 retrograde 10°M26'41 evening set 22°M41'56 -1641 May 16 j 02:30 opposition 9°M03'45 1°44'04 -1641 May 16 j 04:49 -1635 Nov 28 j 05:25 23°M16'11 1°16'28 min. Earth dist. 9°Mപ03'36 29.24150 AU conjunction direct -1641 Aug 04 j 14:29 7°M40'16 minimum elong -1635 Nov 28 j 05:26 23°M16'11 1°16'27 evening set -1641 Oct 31 j 18:21 9°M34'27 max. Earth dist. -1635 Nov 28 j 09:22 23°M16'33 31.19817 AU morning rise -1635 Dec 13 j 10:36 23°M50'32 conjunction -1641 Nov 15 j 22:03 10°M08'35 1°36'00 retrograde -1634 Mar 12 j 12:29 25°M46'21 -1641 Nov 15 j 22:04 10°ML08'35 1°35'59 opposition -1634 May 31 j 21:44 24°ML23'04 1°19'44 minimum elong -1641 Nov 15 j 19:30 10°ML08'20 31.23677 AU min. Earth dist. -1634 May 31 j 17:10 24°M23'23 29.19452 AU max. Earth dist. -1641 Dec 01 j 01:54 10°M42'45 -1634 Aug 19 j 19:56 22°M59'59 morning rise direct -1640 Feb 27 j 14:11 12°MJ37'43 -1634 Nov 15 j 10:24 24°M53'40 retrograde evening set -1640 May 17 j 15:29 11°ML14'43 1°41'01 opposition -1634 Nov 30 i 14:56 min. Earth dist. -1640 May 17 j 16:31 11°M.14'38 29.23397 AU conjunction 25°M27'56 1°12'47 direct -1640 Aug 06 j 01:38 9°M51'16 minimum elong -1634 Nov 30 i 14:56 25°M27'56 1°12'46 evening set -1640 Nov 02 j 03:18 11°M45'21 max. Earth dist. -1634 Nov 30 i 18:42 25°M28'18 31.18953 AU morning rise -1634 Dec 15 j 20:31 26°M02'20 -1640 Nov 17 j 07:14 12°ML19'31 1°33'05 retrograde -1633 Mar 15 i 01:11 27°ML58'16 conjunction -1640 Nov 17 i 07:15 opposition -1633 Jun 03 j 11:06 26°MJ34'55 1°15'45 minimum elong 12°M-19'31 1°33'03 -1640 Nov 17 j 06:51 12°M19'29 31.22970 AU min. Earth dist. -1633 Jun 03 j 06:36 26°MJ35'13 29.18521 AU max. Earth dist. -1640 Dec 02 j 11:08 12°M53'42 25°M11'51 morning rise direct -1633 Aug 22 j 06:27 retrograde -1639 Mar 01 j 00:15 14°ML48'49 evening set -1633 Nov 17 j 19:37 27°M05'27 opposition -1639 May 20 j 04:21 13°M25'45 1°37'49 -1639 May 20 j 04:41 27°ML39'45 1°09'00 min. Earth dist. 13°M25'43 29.22725 AU conjunction -1633 Dec 03 j 00:31 -1639 Aug 08 j 13:39 12°M02'22 minimum elong -1633 Dec 03 j 00:31 27°M₂39'45 1°08'59 direct -1639 Nov 04 j 12:23 13°M56'22 -1633 Dec 03 j 05:52 27°M40'15 31.17954 AU evening set max. Earth dist. -1633 Dec 18 j 06:17 28°M14'10 morning rise -1639 Nov 19 j 16:17 -1632 Feb 20 j 13:22 0°**∡**7 conjunction 14°M30'32 1°30'01 0°**∡**10′13 minimum elong -1639 Nov 19 j 16:17 14°M30'32 1°30'00 retrograde -1632 Mar 16 j 12:28 max. Earth dist. -1639 Nov 19 j 16:07 14°M30'32 31.22348 AU -1632 Apr 10 j 23:15 30°RM -1639 Dec 02 j 17:06 15°M⋅ opposition -1632 Jun 05 j 00:22 28°M46'47 1°11'39 morning rise -1639 Dec 04 j 20:33 15°M04'46 min. Earth dist. -1632 Jun 04 j 18:48 28°M47'09 29.17441 AU retrograde -1638 Mar 03 j 11:47 17°ML00'00 direct -1632 Aug 23 j 20:07 27°M23'44 -1638 May 22 j 17:16 15°MJ36'54 1°34'29 -1632 Nov 19 j 05:06 29°M17'14 opposition evening set

min. Earth dist.

-1638 May 22 j 15:52

15°M37'00 29.22123 AU

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1632 in astronomical counting style is the year 1633 BCE in historical counting style. -1632 Dec 04 i 10:04 29°ML51'33 1°05'07 retrograde -1625 Apr 02 j 00:32 15°**х** 33′55 conjunction opposition -1632 Dec 04 j 10:04 29°M51'33 1°05'06 -1625 Jun 21 j 19:58 14°**₹**09'56 0°40'22 minimum elong max. Earth dist. -1632 Dec 04 j 15:00 29°M52'01 31.16826 AU min. Earth dist. -1625 Jun 21 j 07:18 14°**✗**10'48 29.09952 AU -1632 Dec 08 j 03:07 -1625 Sep 09 j 01:45 12°**х** 46′59 0°×7 direct -1632 Dec 19 j 16:22 -1625 Dec 04 j 22:35 14°**∡**′40′03 morning rise 0°**х** 26′01 evening set 2°×22'09 retrograde -1631 Mar 19 j 01:34 -1625 Dec 20 j 05:21 15°**∡**14'35 opposition -1631 Jun 07 j 13:27 0°**х** 58'37 1°07'26 conjunction 0°35'35 -1625 Dec 20 j 05:21 min. Earth dist. -1631 Jun 07 j 07:12 0°**尽**59'02 29.16267 AU minimum elong 15°**х¹** 14'35 0°35'33 -1631 Jul 17 j 13:42 30°RM max. Earth dist. -1625 Dec 20 j 17:21 15°**∡**15'43 31.09531 AU 15°**∡**¹49'19 direct -1631 Aug 26 j 07:37 29° M $_{3}5'33$ morning rise -1624 Jan 04 j 14:21 -1631 Oct 03 j 15:49 0°⊀ retrograde -1624 Apr 03 j 13:52 17°**∡**¹46'21 -1631 Nov 21 j 14:22 -1624 Jun 23 j 09:13 16°**∡**¹22'19 evening set 1°**∡**¹28'58 opposition 0°35'35 -1624 Jun 22 j 20:29 min. Earth dist. 16° ₹23'11 29.09150 AU conjunction -1631 Dec 06 j 19:42 2°**х**¹03′19 1°01'08 direct -1624 Sep 10 j 11:24 14°**₹**59'25 minimum elong -1631 Dec 06 j 19:42 2°**×**03'19 1°01'07 evening set -1624 Dec 06 j 08:13 16°**₹**52'28 max. Earth dist. -1631 Dec 07 j 02:25 2°**✗**03'57 31.15618 AU morning rise -1631 Dec 22 j 02:13 2°×37'49 conjunction -1624 Dec 21 j 15:27 17°**∡**27′01 0°31'05 retrograde -1630 Mar 21 j 11:54 4°**∡**°34′03 minimum elong -1624 Dec 21 j 15:27 17°**∡**27′01 0°31'03 opposition -1630 Jun 10 j 02:37 3°**∡**10′24 1°03'08 max. Earth dist. -1624 Dec 22 j 05:13 17°**∡**28'19 31.08727 AU min. Earth dist. -1630 Jun 09 j 19:52 3°**х** 10′52 29.15037 AU morning rise -1623 Jan 06 j 00:43 18°**∡**'01'48 direct -1630 Aug 28 j 20:13 1°**х¹**47'20 retrograde -1623 Apr 06 j 02:40 19°**х** 58′57 evening set -1630 Nov 23 i 23:38 3°**х** 40′39 opposition -1623 Jun 25 i 22:09 18°**∡** 34′54 0°30′45 min. Earth dist. -1623 Jun 25 j 08:23 18°**✗**35′50 29.08326 AU conjunction -1630 Dec 09 i 05:04 4°**≯**15'01 0°57'04 direct -1623 Sep 13 i 00:32 17°**х** 12′03 -1630 Dec 09 i 05:04 4°**∡**15'01 0°57'02 evening set -1623 Dec 08 j 18:07 19°**₹**05'04 minimum elong -1630 Dec 09 j 12:03 4°**≯**15'41 31.14405 AU max. Earth dist. -1630 Dec 24 j 12:03 4°**х** 49'34 -1623 Dec 24 j 01:29 19°**х** 39'39 0°26'33 morning rise conjunction -1629 Mar 23 j 23:36 6° **₹** 45'54 -1623 Dec 24 j 01:30 retrograde minimum elong 19° 2739'39 0°26'31 -1629 Jun 12 j 15:44 5°\$\square\$22'10 0°58'45 max. Earth dist. -1623 Dec 24 j 14:48 19°**∡**′40′55 31.07886 AU opposition -1629 Jun 12 j 07:18 5°**҂**22'44 29.13846 AU -1622 Jan 08 j 11:20 20°**х** 14′29 min. Earth dist. morning rise -1629 Aug 31 j 07:12 3°**∡**¹59′05 22°**∡**11'46 -1622 Apr 08 j 17:35 retrograde direct -1622 Jun 28 j 11:22 20°**∡**¹47'40 0°25'52 -1629 Nov 26 j 08:57 5°**х¹**52'19 opposition evening set -1622 Jun 27 j 21:03 20°**х** 48'38 29.07456 AU min. Earth dist. -1629 Dec 11 j 14:41 6° ₹26'43 0°52'55 -1622 Sep 15 j 11:53 19°**х** 24′50 conjunction direct -1629 Dec 11 j 14:41 -1622 Dec 11 j 03:53 21°×17'50 minimum elong 6°**х** 26'43 0°52'54 evening set -1629 Dec 11 j 23:15 max. Earth dist. 6°**≯**27'32 31.13241 AU -1622 Dec 26 j 11:42 21°**₹**52'27 0°21'57 morning rise -1629 Dec 26 j 21:57 7°**∡**01'18 conjunction retrograde -1628 Mar 25 j 10:16 8°**х** 57′46 minimum elong -1622 Dec 26 j 11:42 21°**₹**52'27 0°21'56 opposition -1628 Jun 14 j 04:52 7°**∡**33'56 0°54'16 max. Earth dist. -1622 Dec 27 j 02:33 21°**尽**53'51 31.06962 AU min. Earth dist. -1628 Jun 13 j 20:14 7°**҂**34'31 29.12730 AU morning rise -1621 Jan 10 j 21:48 22°**∡**¹27'19 -1628 Sep 01 j 17:45 6°**х¹**10'52 retrograde -1621 Apr 11 j 04:45 24° ₹ 24'44 direct -1628 Nov 27 j 18:14 8°**х**¹04'02 min. Earth dist. -1621 Jun 30 j 10:07 23°**尽**01'33 29.06477 AU evening set -1621 Jul 01 j 00:38 23°**₹**00'34 0°20'56 opposition -1628 Dec 13 j 00:15 8°**∡**38'28 0°48'42 direct -1621 Sep 18 j 00:08 21°**х** 37'46 conjunction -1628 Dec 13 j 00:15 8°**∡**38'28 0°48'40 -1621 Dec 13 j 13:58 23°**х** 30'42 minimum elong evening set max. Earth dist. -1628 Dec 13 i 09:43 8° ₹39'22 31.12187 AU -1621 Dec 28 i 22:02 morning rise -1628 Dec 28 i 07:56 9° **₹**13'05 conjunction 24°**₹**05'21 0°17'21 -1621 Dec 28 i 22:02 retrograde -1627 Mar 27 j 22:53 11°**₹**09'40 minimum elong 24°**₹**05'21 0°17'19 opposition -1627 Jun 16 j 17:50 9°×745'47 0°49'43 max. Earth dist. -1621 Dec 29 i 12:38 24° ₹ 06'43 31.05937 AU min. Earth dist. -1627 Jun 16 i 07:02 9°**∡**'46'31 29.11718 AU morning rise -1620 Jan 13 i 08:42 24°**₹**′40′15 direct -1627 Sep 04 j 04:21 8°×722'44 retrograde -1620 Apr 12 j 17:44 26°**₹**37'46 -1627 Nov 30 j 03:40 10°**∡**15'52 opposition -1620 Jul 02 j 13:45 25° **1**3'32 0°15'59 evening set min. Earth dist. -1620 Jul 01 j 22:12 25° ₹14'35 29.05395 AU 23°**х** 50'42 conjunction -1627 Dec 15 j 09:53 10°**₹**50'20 0°44'23 direct -1620 Sep 19 j 11:55 minimum elong -1627 Dec 15 j 09:53 10°**₹**50'20 0°44'22 evening set -1620 Dec 15 j 00:00 25°**х** 43′35 max. Earth dist. -1627 Dec 15 j 20:06 10°**₹**51'18 31.11218 AU -1627 Dec 30 j 18:00 11°**х** 24′59 conjunction -1620 Dec 30 j 08:29 26° ₹ 18'16 0°12'42 morning rise -1626 Mar 30 j 11:13 13°**∡** 21'43 -1620 Dec 30 j 08:29 26°**х** 18′16 0°12'41 retrograde minimum elong 11°**∡**757'46 -1626 Jun 19 j 06:54 0°45'04 -1620 Dec 30 j 04:20 26°**х** 17′54 opposition behind sun begin -1626 Jun 18 j 20:07 11°**∡**58'30 29.10798 AU -1620 Dec 30 j 12:37 26° **₹**18'39 min. Earth dist. behind sun end 10°**х** 34'47 26° ₹ 19'44 31.04792 AU direct -1626 Sep 06 j 14:40 max. Earth dist. -1620 Dec 30 j 23:57 evening set -1626 Dec 02 j 13:03 12°**х** 27′52 morning rise -1619 Jan 14 j 19:33 26°**₹**53'13 retrograde -1619 Apr 15 j 05:18 28° 🖍 50'48 conjunction -1626 Dec 17 j 19:40 13°**∡**'02'21 0°40'01 min. Earth dist. -1619 Jul 04 j 11:49 27°**尽**27'30 29.04201 AU minimum elong -1626 Dec 17 j 19:40 13°**₹**02'21 0°39'59 opposition -1619 Jul 05 j 02:57 27°**₹**26′28 0°11'00 max. Earth dist. -1626 Dec 18 j 07:32 13°**✗**03'29 31.10350 AU -1619 Sep 21 j 23:38 26°**х** 03′37 direct -1625 Jan 02 j 04:05 13°**∡**³37′03 -1619 Dec 17 j 10:01 27°**₹**56'25 morning rise evening set

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1618 in astronomical counting style is the year 1619 BCE in historical counting style. -1618 Jan 01 i 18:51 28°**尽**31'08 0°08'04 behind sun end -1613 Jan 13 i 01:25 9°**ප**35'01 conjunction -1618 Jan 01 j 18:51 28°**₺**31'08 0°08'02 max. Earth dist. -1613 Jan 13 j 18:58 9°る36'41 30.98249 AU minimum elong -1618 Jan 01 j 13:07 28°**х** 30′37 -1613 Jan 28 j 13:17 10°**ठ**10'00 behind sun begin morning rise -1613 Apr 29 j 10:41 -1618 Jan 02 j 00:36 12°る08'07 behind sun end 28°×31'39 retrograde 28°**₹**32'38 31.03573 AU -1613 Jul 19 j 08:29 -1618 Jan 02 j 10:49 10°る43'18 -0°18'58 max. Earth dist. opposition 29°**∡**¹06′07 -1613 Jul 18 j 12:13 -1618 Jan 17 j 06:21 min. Earth dist. morning rise 10°る44'41 28.97899 AU -1613 Oct 05 j 17:39 -1618 Feb 12 j 10:26 0°ಕ direct 9°**る**20'20 -1613 Dec 30 j 23:18 retrograde -1618 Apr 17 j 17:37 1°**る**03'47 evening set 11°る12'58 -1618 Jun 24 j 22:06 30°R.✓ 29°**∡**³39′20 opposition -1618 Jul 07 j 15:54 0°06'01 conjunction -1612 Jan 15 j 10:20 11°る47'51 -0°20'02 -1612 Jan 15 j 10:20 min. Earth dist. -1618 Jul 06 j 23:07 29°**х¹**40′29 29.02958 AU minimum elong 11°**る**47'51 0°20'03 -1618 Sep 24 j 11:18 28°**х** 16′26 -1612 Jan 16 j 07:34 11°る49'52 30.97518 AU direct max. Earth dist. -1618 Dec 15 j 15:47 0°₹ -1612 Jan 31 j 00:31 morning rise 12°る23'03 evening set -1618 Dec 19 j 20:09 0°る09'11 retrograde -1612 Apr 30 j 22:43 14°**පි**21'16 opposition -1612 Jul 20 j 21:14 12°る56'27 -0°23'55 conjunction -1617 Jan 04 j 05:15 0°**る**43'55 0°03'24 min. Earth dist. -1612 Jul 20 j 00:41 12°る57'51 28.97208 AU minimum elong -1617 Jan 04 j 05:14 0°**る**43'55 0°03'22 direct -1612 Oct 07 j 05:16 11°る33'31 behind sun begin -1617 Jan 03 j 22:51 0°る43'20 evening set -1611 Jan 01 j 09:57 13°る26'10 behind sun end -1617 Jan 04 j 11:37 0°る44'30 max. Earth dist. -1617 Jan 04 j 21:36 0°る45'27 31.02326 AU conjunction -1611 Jan 16 j 21:18 14°る01'05 -0°24'39 morning rise -1617 Jan 19 j 17:16 1°る18'56 minimum elong -1611 Jan 16 j 21:18 14°る01'05 0°24'41 retrograde -1617 Apr 20 i 05:01 3°**ප**16'41 max. Earth dist. -1611 Jan 17 j 18:27 14°る03'05 30.96864 AU opposition -1617 Jul 10 i 05:01 1°る52'07 0°01'01 morning rise -1611 Feb 01 i 12:02 14°る36'19 min. Earth dist. -1617 Jul 09 i 12:32 1°る53'15 29.01739 AU retrograde -1611 May 03 j 13:20 16°る34'40 desc. node -1617 Sep 22 j 18:19 0°る29'28 opposition -1611 Jul 23 j 10:02 15°る09'50 -0°28'51 -1617 Sep 26 j 21:39 0°**궁**29'11 min. Earth dist. -1611 Jul 22 j 12:29 15°る11'19 28.96574 AU direct -1617 Dec 22 j 06:08 2°る21'52 -1611 Oct 09 j 16:47 13°る46'56 direct evening set evening set -1610 Jan 03 j 20:39 15°る39'37 -1616 Jan 06 j 15:43 2°る56'37 -0°01'24 conjunction -1610 Jan 19 j 08:21 -1616 Jan 06 j 15:43 16°る14'34 -0°29'14 minimum elong 2°**ප**56'37 0°01'26 conjunction -1616 Jan 06 j 09:18 -1610 Jan 19 j 08:21 behind sun begin 2°る56'02 minimum elong 16°る14'34 0°29'16 -1616 Jan 06 j 22:09 -1610 Jan 20 j 06:23 behind sun end 2°る57'12 max. Earth dist. 16°る16'39 30.96218 AU 16°**る**49'51 -1616 Jan 07 j 09:39 -1610 Feb 03 j 23:28 max. Earth dist. 2°る58'19 31.01142 AU morning rise 3°**る**31'40 -1616 Jan 22 j 04:05 -1610 May 06 j 02:11 18°**る**48'19 morning rise retrograde -1616 Apr 21 j 17:24 5°る29'29 -1610 Jul 25 j 22:57 17°る23'28 -0°33'44 retrograde opposition -1616 Jul 11 j 17:54 4°る04'50 -0°03'59 -1610 Jul 25 j 01:56 17°る24'55 28.95925 AU opposition min. Earth dist. -1616 Jul 10 j 23:40 4°る06'05 29.00595 AU -1610 Oct 12 j 04:10 min. Earth dist. direct 16°**る**00'37 direct -1616 Sep 28 j 08:52 2°る41'52 evening set -1609 Jan 06 j 07:35 17°る53'19 -1616 Dec 23 j 16:27 4°る34'31 evening set conjunction -1609 Jan 21 j 19:42 18°る28'18 -0°33'47 conjunction -1615 Jan 08 j 02:15 5°る09'18 -0°06'05 minimum elong -1609 Jan 21 j 19:42 18°る28'18 0°33'49 -1615 Jan 08 j 02:14 5°る09'18 0°06'07 max. Earth dist. -1609 Jan 22 j 18:00 18°る30'25 30.95555 AU minimum elong -1615 Jan 07 j 20:07 5°る08'45 -1609 Feb 06 j 11:14 19°る03'37 behind sun begin morning rise behind sun end -1615 Jan 08 j 08:21 5°**る**09'51 -1609 May 08 j 15:39 21°る02'12 retrograde max. Earth dist. -1615 Jan 08 j 20:06 5°る10'59 31.00048 AU -1609 Jul 28 j 11:46 19°る37'21 -0°38'34 opposition 5°る44'23 -1609 Jul 27 i 13:34 19°る38'53 28.95230 AU morning rise -1615 Jan 23 i 15:12 min. Earth dist. retrograde -1615 Apr 24 i 06:44 7°る42'17 direct -1609 Oct 14 i 15:41 18°る14'31 opposition -1615 Jul 14 i 06:43 6°る17'34 -0°08'59 evening set -1608 Jan 08 j 18:43 20°る07'14 min. Earth dist. -1615 Jul 13 j 12:28 6°る18'49 28.99573 AU direct -1615 Sep 30 j 18:31 4°₹54'34 -1608 Jan 24 j 07:09 20° 842'15 -0°38'17 conjunction -1615 Dec 26 j 02:38 6°₹47'12 minimum elong -1608 Jan 24 i 07:08 20°**ප්**42'15 0°38'19 evening set max. Earth dist. -1608 Jan 25 j 05:12 20°る44'20 30.94804 AU -1614 Jan 10 j 12:56 7°る22'01 -0°10'45 -1608 Feb 08 j 23:13 21°る17'37 conjunction morning rise minimum elong -1614 Jan 10 j 12:56 7°る22'01 0°10'46 retrograde -1608 May 10 j 03:37 23°る16'17 behind sun begin -1614 Jan 10 j 07:59 7°る21'34 min. Earth dist. -1608 Jul 29 j 03:29 21°る52'52 28.94434 AU behind sun end -1614 Jan 10 j 17:54 7°る22'28 opposition -1608 Jul 30 j 00:46 21°る51'24 -0°43'21 max. Earth dist. -1614 Jan 11 j 08:41 7°る23'53 30.99084 AU direct -1608 Oct 16 j 01:55 20°る28'34 -1614 Jan 26 j 02:10 7°る57'08 -1607 Jan 10 j 05:55 22°る21'18 morning rise evening set -1614 Apr 26 j 19:40 9°る55'08 retrograde -1614 Jul 16 j 19:33 8°る30'22 -0°13'59 -1607 Jan 25 j 18:53 22°る56'20 -0°42'44 opposition conjunction 8°**궁**31'42 28.98670 AU -1607 Jan 25 j 18:53 min. Earth dist. -1614 Jul 16 j 00:00 minimum elong 22°**る**56'20 0°42'45 direct -1614 Oct 03 j 07:04 7°る07'23 max. Earth dist. -1607 Jan 26 j 17:41 22°る58'30 30.93952 AU evening set -1614 Dec 28 j 12:54 9°**ට**00'00 morning rise -1607 Feb 10 j 11:15 23°る31'44 retrograde -1607 May 12 j 16:28 25°る30'28 conjunction -1613 Jan 12 j 23:26 9°**ප**34'51 -0°15'24 opposition -1607 Aug 01 j 13:24 24°る05'33 -0°48'05 -1613 Jan 12 j 23:26 9°**る**34'51 0°15'25 min. Earth dist. -1607 Jul 31 j 15:09 24°る07'05 28.93524 AU minimum elong behind sun begin -1613 Jan 12 j 21:26 9°る34'40 -1607 Oct 18 j 12:57 22°る42'41 direct

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 24

,	1		_	· //	1607 BCE in historical c	, 1	bage 24
evening set	-1606 Jan 12 j 17:16	-	n astronomicai cou	max. Earth dist.	-1600 Feb 12 j 06:34		30.88028 AU
evening set	-1000 Jan 12 J 17.10	24 033 23			-1600 Feb 12 j 00:34 -1600 Feb 27 j 01:02		30.88028 AU
agniumation	1606 Ion 20:06:20	250₹10/20	0947107	morning rise	,	9°≈10'38	
conjunction	-1606 Jan 28 j 06:28	25°る10'29 25°る10'29		retrograde	-1600 May 28 j 15:39	11°≈09'41	20.070// AII
minimum elong	-1606 Jan 28 j 06:27			min. Earth dist.	-1600 Aug 16 j 04:56		28.87866 AU
max. Earth dist.	-1606 Jan 29 j 04:30		30.92995 AU	opposition	-1600 Aug 17 j 05:17	9°≈44'22	-1*18*45
morning rise	-1606 Feb 12 j 23:27	25°₹45'54		direct	-1600 Nov 02 j 21:57	8°≈21'15	
retrograde	-1606 May 15 j 05:49	27°る44'43	20.02544.411	evening set	-1599 Jan 28 j 01:43	10°≈14'05	
min. Earth dist.	-1606 Aug 03 j 04:42	26°る2112 26°る19'42	28.92544 AU		1500 E 1 12 : 17 45	10040120	1015120
opposition	-1606 Aug 04 j 02:17		-0°52′44	conjunction	-1599 Feb 12 j 17:45	10°≈49'20	
direct	-1606 Oct 20 j 22:59	24°る56'48		minimum elong	-1599 Feb 12 j 17:45	10°≈49'20	
evening set	-1605 Jan 15 j 04:20	26° る 49'31		max. Earth dist.	-1599 Feb 13 j 18:39		30.87565 AU
	1605 7 20:10.05	250 72 4125	0051106	morning rise	-1599 Feb 28 j 13:42	11°≈24'57	
conjunction	-1605 Jan 30 j 18:07	27° ♂ 24'37		retrograde	-1599 May 31 j 04:15	13°≈24'04	1000110
minimum elong	-1605 Jan 30 j 18:06	27°る24'37		opposition	-1599 Aug 19 j 17:40	11°≈58'45	
max. Earth dist.	-1605 Jan 31 j 17:32		30.91993 AU	min. Earth dist.	-1599 Aug 18 j 18:12		28.87451 AU
morning rise	-1605 Feb 15 j 11:23	28°る00'04		direct	-1599 Nov 05 j 08:23	10°≈35'39	
retrograde	-1605 May 17 j 18:33	29°₹58'55		evening set	-1598 Jan 30 j 13:37	12° ≈ 28'31	
opposition	-1605 Aug 06 j 14:57	28°る33'50					
min. Earth dist.	-1605 Aug 05 j 16:38		28.91538 AU	conjunction	-1598 Feb 15 j 06:11	13°≈03'48	
direct	-1605 Oct 23 j 11:40	27° る 10'52		minimum elong	-1598 Feb 15 j 06:10		1°19'09
evening set	-1604 Jan 17 j 15:47	29° る 03'35		max. Earth dist.	-1598 Feb 16 j 07:55		30.87179 AU
		_		morning rise	-1598 Mar 03 j 02:25	13° ≈ 39′27	
conjunction	-1604 Feb 02 j 05:49	29° る 38'42			-1598 Apr 14 j 05:18	15° ≈	
minimum elong	-1604 Feb 02 j 05:48	29° る 38'42		retrograde	-1598 Jun 02 j 18:03	15° ≈ 38'37	
max. Earth dist.	-1604 Feb 03 j 04:30		30.91002 AU		-1598 Jul 23 j 15:28	15°R ≈	
	-1604 Feb 11 j 15:19	0° ≈		min. Earth dist.	-1598 Aug 21 j 05:35		28.87077 AU
morning rise	-1604 Feb 17 j 23:42	0° ≈ 14'10		opposition	-1598 Aug 22 j 05:58	14° ≈ 13′19	-1°26'33
retrograde	-1604 May 19 j 09:05	2° ≈ 13'04		direct	-1598 Nov 07 j 19:50	12° ≈ 50′13	
min. Earth dist.	-1604 Aug 07 j 05:00	0° ≈ 49′28	28.90588 AU	evening set	-1597 Feb 02 j 01:45	14° ≈ 43′08	
opposition	-1604 Aug 08 j 03:28	0° ≈ 47'54	-1°01'47		-1597 Feb 09 j 14:56	15° ≈	
	-1604 Sep 07 j 19:26	30°Ŗる					
direct	-1604 Oct 24 j 22:05	29° පි 24'52		conjunction	-1597 Feb 17 j 18:34	15° ≈ 18′27	-1°22'40
	-1604 Dec 09 j 12:11	0° ≈		minimum elong	-1597 Feb 17 j 18:34	15° ≈ 18′27	1°22'40
evening set	-1603 Jan 19 j 03:10	1° ≈ 17'36		max. Earth dist.	-1597 Feb 18 j 19:26	15° ≈ 20'48	30.86796 AU
				morning rise	-1597 Mar 05 j 15:22	15° ≈ 54'07	
conjunction	-1603 Feb 03 j 17:43	1° ≈ 52'45	-0°59'49	retrograde	-1597 Jun 05 j 06:56	17° ≈ 53′21	
minimum elong	-1603 Feb 03 j 17:43	1° ≈ 52'45	0°59'50	opposition	-1597 Aug 24 j 18:28	16° ≈ 28′03	-1°30'16
max. Earth dist.	-1603 Feb 04 j 17:45	1° ≈ 55'01	30.90076 AU	min. Earth dist.	-1597 Aug 23 j 19:07	16° ≈ 29'41	28.86689 AU
morning rise	-1603 Feb 19 j 11:53	2° ≈ 28'15		direct	-1597 Nov 10 j 05:46	15° ≈ 04'57	
retrograde	-1603 May 21 j 21:22	4° ≈ 27'10		evening set	-1596 Feb 04 j 14:05	16° ≈ 57'56	
opposition	-1603 Aug 10 j 15:58	3° ≈ 01'57	-1°06'11				
min. Earth dist.	-1603 Aug 09 j 17:20	3° ≈ 03'31	28.89716 AU	conjunction	-1596 Feb 20 j 07:28	17° ≈ 33'16	-1°26'04
direct	-1603 Oct 27 j 09:50	1° ≈ 38'53		minimum elong	-1596 Feb 20 j 07:28	17° ≈ 33'16	1°26'05
evening set	-1602 Jan 21 j 14:36	3° ≈ 31'37		max. Earth dist.	-1596 Feb 21 j 09:08	17° ≈ 35'41	30.86369 AU
				morning rise	-1596 Mar 07 j 04:30	18° ≈ 08'58	
conjunction	-1602 Feb 06 j 05:26	4° ≈ 06'47	-1°03'52	retrograde	-1596 Jun 06 j 19:23	20° ≈ 08'13	
minimum elong	-1602 Feb 06 j 05:26	4° ≈ 06'47	1°03'54	min. Earth dist.	-1596 Aug 25 j 07:10	18° ≈ 44'34	28.86220 AU
max. Earth dist.	-1602 Feb 07 j 05:17	4° ≈ 09'03	30.89266 AU	opposition	-1596 Aug 26 j 06:38	18° ≈ 42'56	-1°33'50
morning rise	-1602 Feb 22 j 00:06	4° ≈ 42'19		direct	-1596 Nov 11 j 17:43	17° ≈ 19'48	
retrograde	-1602 May 24 j 12:47	6° ≈ 41'17		evening set	-1595 Feb 06 j 02:40	19° ≈ 12'51	
min. Earth dist.	-1602 Aug 12 j 04:51	5° ≈ 17'39	28.88976 AU				
opposition	-1602 Aug 13 j 04:26	5° ≈ 16′01	-1°10'28	conjunction	-1595 Feb 21 j 20:19	19° ≈ 48'12	-1°29'21
direct	-1602 Oct 29 j 22:16	3° ≈ 52'55		minimum elong	-1595 Feb 21 j 20:18	19° ≈ 48'12	1°29'21
evening set	-1601 Jan 24 j 02:10	5° ≈ 45'40		max. Earth dist.	-1595 Feb 22 j 20:26	19° ≈ 50′29	30.85848 AU
				morning rise	-1595 Mar 09 j 17:54	20° ≈ 23'55	
conjunction	-1601 Feb 08 j 17:26	6° ≈ 20'52	-1°07'51	retrograde	-1595 Jun 09 j 09:53	22° ≈ 23'13	
minimum elong	-1601 Feb 08 j 17:26	6° ≈ 20'52	1°07'52	opposition	-1595 Aug 28 j 19:01	20° ≈ 57'54	-1°37'16
max. Earth dist.	-1601 Feb 09 j 18:09	6° ≈ 23'13	30.88577 AU	min. Earth dist.	-1595 Aug 27 j 20:04	20° ≈ 59'30	28.85654 AU
morning rise	-1601 Feb 24 j 12:30	6°≈56'26		direct	-1595 Nov 14 j 03:52	19° ≈ 34'43	
-		8° ≈ 55'27		evening set	-1594 Feb 08 j 15:04	21° ≈ 27'48	
retrograde	-1601 May 27 j 01:47	0 ~3321			-		
retrograde opposition	-1601 May 27 j 01:47 -1601 Aug 15 j 16:56	8 ≈3327 7°≈30'08	-1°14'40				
•	• •	7° ≈ 30'08	-1°14'40 28.88361 AU	conjunction	-1594 Feb 24 j 09:14	22° ≈ 03'11	-1°32'30
opposition	-1601 Aug 15 j 16:56	7° ≈ 30'08		conjunction minimum elong	-1594 Feb 24 j 09:14 -1594 Feb 24 j 09:14		-1°32'30 1°32'31
opposition min. Earth dist. direct	-1601 Aug 15 j 16:56 -1601 Aug 14 j 17:49	7°≈30'08 7°≈31'45				22°≈03′11	
opposition min. Earth dist.	-1601 Aug 15 j 16:56 -1601 Aug 14 j 17:49 -1601 Nov 01 j 10:04	7°≈30'08 7°≈31'45 6°≈07'02		minimum elong	-1594 Feb 24 j 09:14	22°≈03′11	1°32'31
opposition min. Earth dist. direct	-1601 Aug 15 j 16:56 -1601 Aug 14 j 17:49 -1601 Nov 01 j 10:04	7°≈30'08 7°≈31'45 6°≈07'02	28.88361 AU	minimum elong max. Earth dist.	-1594 Feb 24 j 09:14 -1594 Feb 25 j 10:00	22°≈03'11 22°≈05'31	1°32'31
opposition min. Earth dist. direct evening set	-1601 Aug 15 j 16:56 -1601 Aug 14 j 17:49 -1601 Nov 01 j 10:04 -1600 Jan 26 j 13:48	7°≈30'08 7°≈31'45 6°≈07'02 7°≈59'48	28.88361 AU -1°11'43	minimum elong max. Earth dist. morning rise	-1594 Feb 24 j 09:14 -1594 Feb 25 j 10:00 -1594 Mar 12 j 07:04	22°≈03'11 22°≈05'31 22°≈38'56 24°≈38'13	1°32'31

Dlanatary Dhan	omena of Neptune f	From 1000	through 1200	(III) Astrodion	ot A.C. 18 Eab 2025	14.22	nogo 25
•	nical year style is used: Th		_	` //			page 25
opposition	-1594 Aug 31 j 07:19	23°≈12'52		conjunction	-1587 Mar 12 j 05:19	7°) 47'15	-1°50'19
direct	-1594 Nov 16 j 15:58	21° ≈ 49'38	1 40 54	minimum elong	-1587 Mar 12 j 05:19	7°) (47'15	
evening set	-1593 Feb 11 j 03:41	23°≈42'45		max. Earth dist.	-1587 Mar 13 j 05:32		30.81586 AU
evening sec	1575 1 60 11 1 05.11	25 74 12 15		morning rise	-1587 Mar 28 j 05:48	8° ¥ 23'08	30.01300110
conjunction	-1593 Feb 26 j 22:13	24° ≈ 18′09	-1°35'30	retrograde	-1587 Jun 27 j 19:45	10°) €22'17	
minimum elong	-1593 Feb 26 j 22:13	24° ≈ 18'09		opposition	-1587 Sep 15 j 18:26	8°) 56'48	-1°59'01
max. Earth dist.	-1593 Feb 27 j 21:57		30.84524 AU	min. Earth dist.	-1587 Sep 14 j 20:38		28.81684 AU
morning rise	-1593 Mar 14 j 20:34	24° ≈ 53'55		direct	-1587 Dec 02 j 01:52	7°) €33'15	
retrograde	-1593 Jun 14 j 13:49	26° ≈ 53'11		evening set	-1586 Feb 26 j 21:07	9°) 26'44	
opposition	-1593 Sep 02 j 19:24	25° ≈ 27'47	-1°43'42				
min. Earth dist.	-1593 Sep 01 j 20:46	25° ≈ 29'22	28.84273 AU	conjunction	-1586 Mar 14 j 18:32	10°) €02'18	-1°52'13
direct	-1593 Nov 19 j 04:27	24° ≈ 04′28		minimum elong	-1586 Mar 14 j 18:32	10°) 02′18	1°52'14
evening set	-1592 Feb 13 j 16:20	25° ≈ 57'37		max. Earth dist.	-1586 Mar 15 j 17:29	10°) €04'28	30.81540 AU
				morning rise	-1586 Mar 30 j 19:33	10°) 38′13	
conjunction	-1592 Feb 29 j 11:19	26° ≈ 33'03	-1°38'21	retrograde	-1586 Jun 30 j 09:52	12°) ₹37′22	
minimum elong	-1592 Feb 29 j 11:19	26° ≈ 33'03	1°38'23	min. Earth dist.	-1586 Sep 17 j 08:53		28.81690 AU
max. Earth dist.	-1592 Mar 01 j 11:21	26° ≈ 35'19	30.83798 AU	opposition	-1586 Sep 18 j 06:13	11° 米 11'55	-2°00'58
morning rise	-1592 Mar 16 j 10:02	27° ≈ 08'50		direct	-1586 Dec 04 j 11:09	9° ∺ 48'21	
retrograde	-1592 Jun 16 j 02:21	29° ≈ 08'05		evening set	-1585 Mar 01 j 10:16	11°) 41'55	
min. Earth dist.	-1592 Sep 03 j 09:54		28.83564 AU				
opposition	-1592 Sep 04 j 07:30	27° ≈ 42'38	-1°46'40	conjunction	-1585 Mar 17 j 08:15	12°) 17'31	
direct	-1592 Nov 20 j 16:38	26° ≈ 19'16		minimum elong	-1585 Mar 17 j 08:15	12° 米 17'31	
evening set	-1591 Feb 15 j 04:58	28° ≈ 12′26		max. Earth dist.	-1585 Mar 18 j 07:53		30.81568 AU
	150134 02:00.01	200 45154	1041104	morning rise	-1585 Apr 02 j 09:28	12°) €53'27	
conjunction	-1591 Mar 03 j 00:24	28°≈47'54		retrograde	-1585 Jul 02 j 21:50	14°) € 52'35	
minimum elong	-1591 Mar 03 j 00:24	28°≈47'54		opposition	-1585 Sep 20 j 17:48	13°) €27'11	
max. Earth dist.	-1591 Mar 04 j 00:13		30.83118 AU	min. Earth dist.	-1585 Sep 19 j 21:06		28.81734 AU
morning rise	-1591 Mar 18 j 23:27	29° ≈ 23'42		direct	-1585 Dec 06 j 22:47	12°) €03'37	
. 1	-1591 Apr 05 j 03:43	0°) {		evening set	-1584 Mar 02 j 23:44	13° ¥ 57'16	
retrograde	-1591 Jun 18 j 16:40	1° ¥ 22'55		· · · · · · · · · · · ·	1504 Mar. 10 : 22.02	14°)(32'54	1955120
opposition	-1591 Sep 05 j 06:38 -1591 Sep 06 j 19:18	30°R≈ 29°≈57'26	1940'20	conjunction minimum elong	-1584 Mar 18 j 22:02 -1584 Mar 18 j 22:02	14 X 32 34 14° X 32'54	
min. Earth dist.	-1591 Sep 05 j 20:51		28.82927 AU	max. Earth dist.	-1584 Mar 19 j 20:13		30.81618 AU
direct	-1591 Nov 23 j 05:05	29°≈33'59	28.82921 AU	morning rise	-1584 Apr 03 j 23:44	15° \ 08'50	30.81018 AU
direct	-1590 Feb 04 j 23:57	0° ∺		retrograde	-1584 Jul 04 j 12:39	17° ¥ 07'56	
evening set	-1590 Feb 17 j 17:43	0°) €27'13		min. Earth dist.	-1584 Sep 21 j 08:58		28.81772 AU
e vennig set	10,0100 17,17.15	0 7(27 13		opposition	-1584 Sep 22 j 05:28	15°) (42'35	
conjunction	-1590 Mar 05 j 13:27	1°) €02'41	-1°43'37	direct	-1584 Dec 08 j 10:47	14°) 18'59	
minimum elong	-1590 Mar 05 j 13:27	1°) €02'41	1°43'38	evening set	-1583 Mar 05 j 13:12	16°) € 12'43	
max. Earth dist.	-1590 Mar 06 j 12:57	1°) 04'54	30.82521 AU	C	J		
morning rise	-1590 Mar 21 j 12:57	1°) 38′31		conjunction	-1583 Mar 21 j 11:56	16°) 48′22	-1°56'52
retrograde	-1590 Jun 21 j 05:49	3°) € 37'43		minimum elong	-1583 Mar 21 j 11:56	16°) 48′22	1°56'52
min. Earth dist.	-1590 Sep 08 j 09:49	2°) 13′42	28.82406 AU	max. Earth dist.	-1583 Mar 22 j 10:01	16° ¥ 50′27	30.81609 AU
opposition	-1590 Sep 09 j 07:16	2° 升 12′12	-1°52'08	morning rise	-1583 Apr 06 j 13:51	17°) €24'20	
direct	-1590 Nov 25 j 16:13	0°) 48'43		retrograde	-1583 Jul 07 j 00:52	19°) 23′23	
evening set	-1589 Feb 20 j 06:19	2°) 41′59		opposition	-1583 Sep 24 j 17:08	17° ¥ 58′03	-2°05'39
				min. Earth dist.	-1583 Sep 23 j 22:07		28.81730 AU
conjunction	-1589 Mar 08 j 02:37	3° ¥ 17′29		direct	-1583 Dec 10 j 22:22	16°) 34′24	
minimum elong	-1589 Mar 08 j 02:37	3° ¥ 17′29	1°46'01	evening set	-1582 Mar 08 j 02:44	18° ∺ 28'12	
max. Earth dist.	-1589 Mar 09 j 02:47		30.82069 AU				
morning rise	-1589 Mar 24 j 02:24	3° ¥ 53′20		conjunction	-1582 Mar 24 j 01:55	19°) €03'52	
retrograde	-1589 Jun 23 j 19:47	5° ¥ 52'31		minimum elong	-1582 Mar 24 j 01:55	19° 米 03′52	
opposition	-1589 Sep 11 j 19:01	4°) (26′59		max. Earth dist.	-1582 Mar 24 j 22:57		30.81538 AU
min. Earth dist.	-1589 Sep 10 j 20:38		28.82022 AU	morning rise	-1582 Apr 09 j 04:12	19°) (39′51	
direct	-1589 Nov 28 j 04:19	3°) €03'28		retrograde	-1582 Jul 09 j 15:53	21°) (38'49	
evening set	-1588 Feb 22 j 19:17	4°) ₹56'48		min. Earth dist.	-1582 Sep 26 j 09:26		28.81619 AU
	1500 M 00:15.52	501/20110	1040117	opposition	-1582 Sep 27 j 04:41	20°) 13'29 18°) 49'47	-2~06'50
conjunction	-1588 Mar 09 j 15:52	5° ¥ 32'19		direct	-1582 Dec 13 j 11:16		
minimum elong max. Earth dist.	-1588 Mar 09 j 15:51 -1588 Mar 10 j 15:06	5°) 32'19	1°48'15 30.81753 AU	evening set	-1581 Mar 10 j 16:18	20°) 43′37	
	-	6° ¥ 08'12	30.81733 AU	aaniumatian	1501 Mar 26: 15:52	21° ∺ 19'18	1950/05
morning rise retrograde	-1588 Mar 25 j 16:09 -1588 Jun 25 j 07:41	8° H 07'21		conjunction minimum elong	-1581 Mar 26 j 15:52 -1581 Mar 26 j 15:52	21° X 19'18	
min. Earth dist.	-1588 Sep 12 j 09:19		28.81790 AU	max. Earth dist.	-1581 Mar 26 j 15:52 -1581 Mar 27 j 11:57		30.81386 AU
opposition	-1588 Sep 12 j 09:19 -1588 Sep 13 j 06:45	6° X 4321 6° X 41'50		morning rise	-1581 Apr 11 j 18:33	21° X 2111 21° X 55'18	50.01500 AU
direct	-1588 Nov 29 j 14:22	5°) 18'18	1 3037	retrograde	-1581 Jul 12 j 05:16	23° X 54'11	
evening set	-1587 Feb 24 j 08:09	7°) 11'42		opposition	-1581 Sep 29 j 16:16	22° H 28'50	-2°07'50
	200 21 j 00.09	. , , , , , , , , , , , , , , , , , , ,		min. Earth dist.	-1581 Sep 28 j 22:42		28.81444 AU
					- ·r = · j ==2		

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1581 in astronomical counting style is the year 1582 BCE in historical counting style. -1581 Dec 15 j 23:32 21°**)** 05'03 minimum elong -1574 Apr 11 j 18:19 7°**Υ**04'13 2°01'07 direct -1580 Mar 12 j 05:53 22°**)** 58'54 -1574 Apr 12 j 11:20 7°**Υ**'05'48 30.81846 AU max. Earth dist. evening set -1574 Apr 27 j 23:03 7°**Y**40′17 morning rise -1580 Mar 28 j 06:00 23°\ 34'37 -1°59'56 -1574 Jul 27 j 20:36 9°Y38'26 conjunction retrograde -1580 Mar 28 j 06:00 23°\dagger34'37 1°59'56 -1574 Oct 14 j 22:18 8°Υ13'14 -2°09'16 minimum elong opposition -1580 Mar 29 j 01:51 8°Υ14'15 28.82267 AU max. Earth dist. 23°**₭**36'29 30.81203 AU min. Earth dist. -1574 Oct 14 j 08:00 6°**Y**49'07 morning rise -1580 Apr 13 j 08:55 24°**)** 10'37 direct -1574 Dec 31 j 07:52 8°Y43'23 retrograde -1580 Jul 13 j 18:51 26°**₩**09'23 evening set -1573 Mar 29 j 05:39 min. Earth dist. -1580 Sep 30 j 09:36 24°**X**45'17 28.81253 AU opposition -1580 Oct 01 j 03:28 24°\(\dagger44'01\) -2°08'38 conjunction -1573 Apr 14 j 08:35 9°Υ19'14 -2°00'38 9°**Y**19'14 2°00'38 direct -1580 Dec 17 j 12:59 23°**¥**20′09 minimum elong -1573 Apr 14 j 08:35 25°**)** 14′03 -1573 Apr 15 j 00:34 9°**Υ**20'44 30.82425 AU evening set -1579 Mar 14 j 19:36 max. Earth dist. -1573 Apr 30 j 13:40 9°Y55'19 morning rise -1573 Jul 30 j 11:09 conjunction -1579 Mar 30 j 19:58 25°\dagger49'47 -2°00'35 retrograde 11°Y53'23 minimum elong -1579 Mar 30 j 19:58 25°\ 49'47 2°00'34 opposition -1573 Oct 17 j 09:14 10°**Y**28'17 -2°08'41 max. Earth dist. -1579 Mar 31 j 14:28 25°**升**51'31 30.81025 AU min. Earth dist. -1573 Oct 16 j 18:44 10°**Υ**29'19 28.82872 AU morning rise -1579 Apr 15 j 23:19 26°**¥**25'47 direct -1572 Jan 02 j 20:28 9°Υ04'10 retrograde -1579 Jul 16 j 07:07 28° **)** 24'27 evening set -1572 Mar 30 j 19:45 10°Y58'32 opposition -1579 Oct 03 j 14:51 26°\\$59'03 -2°09'14 min. Earth dist. -1579 Oct 02 j 22:18 27°**)** 600'14 28.81113 AU conjunction -1572 Apr 15 j 23:00 11° Y 34'25 -2° 00'00 direct -1579 Dec 19 j 23:40 25°**)**€35'07 minimum elong -1572 Apr 15 j 23:00 11°**Υ**34'25 2°00'00 evening set -1578 Mar 17 i 08:57 27°**¥**29′02 max. Earth dist. -1572 Apr 16 j 14:07 11°**Υ**35'49 30.83041 AU morning rise -1572 May 02 j 04:20 12°Y10'30 conjunction -1578 Apr 02 i 09:54 28° **** 04'47 -2°01'04 retrograde -1572 Aug 01 i 00:15 14° \bar{\gamma} 08'30 -1578 Apr 02 i 09:54 28°\;\;\)04'47 2°01'04 opposition -1572 Oct 18 j 20:14 12°Y'43'29 -2°07'53 minimum elong -1578 Apr 03 j 05:02 28°\mathred{\pm}06'35 30.80924 AU -1572 Oct 18 j 07:35 12°Υ 44'23 28.83493 AU max. Earth dist. min. Earth dist. -1578 Apr 18 j 13:26 28°**)**(40'48 -1571 Jan 04 j 08:23 11°Y19'22 morning rise direct -1578 May 30 j 01:54 $0^{\circ}\Upsilon$ evening set -1571 Apr 02 j 09:49 13°Y13'50 -1578 Jul 18 j 19:32 0°Y39'21 retrograde -1578 Sep 07 j 11:23 -1571 Apr 18 j 13:32 13°**Y**49'44 -1°59'10 30°R **₩** conjunction -1571 Apr 18 j 13:32 -1578 Oct 05 j 09:23 min. Earth dist. 29°**₭**15'08 28.81057 AU minimum elong 13°**Y**49'44 1°59'09 -1571 Apr 19 j 03:58 -1578 Oct 06 j 02:01 29°**X**13'57 -2°09'38 max. Earth dist. 13°Υ51'05 30.83656 AU opposition -1571 May 04 j 19:03 -1578 Dec 22 j 12:10 27°**)** 49'57 14°**Y**25′50 direct morning rise -1577 Mar 19 j 22:42 -1571 Aug 03 j 14:11 16°**Y**23'44 evening set 29° **X** 43'54 retrograde $0^{\circ}\Upsilon$ -1571 Oct 21 j 07:11 14°Υ58'48 -2°06'54 -1577 Mar 27 j 05:22 opposition -1571 Oct 20 j 18:30 14°**Υ**59'42 28.84072 AU min. Earth dist. -1577 Apr 04 j 23:55 0°Υ19'41 -2°01'21 conjunction direct -1570 Jan 06 j 21:51 13°**Y**34'41 minimum elong -1577 Apr 04 j 23:55 0°Y19'41 2°01'20 evening set -1570 Apr 04 j 23:57 15°**Y**29′13 max. Earth dist. -1577 Apr 05 j 17:27 0°**Υ**21'19 30.80933 AU morning rise -1577 Apr 21 j 03:56 0°Y55'42 conjunction -1570 Apr 21 j 03:55 16°Y05'09 -1°58'09 retrograde -1577 Jul 21 j 08:31 2°Y54'08 minimum elong -1570 Apr 21 j 03:55 16°Υ05'09 1°58'09 -1577 Oct 08 j 13:07 1°Y28'46 -2°09'51 max. Earth dist. -1570 Apr 21 j 16:34 16°**Y**06'19 30.84196 AU opposition -1577 Oct 07 j 21:07 1°**Υ**29'54 28.81143 AU -1570 May 07 j 09:47 16°**Y**41'15 min. Earth dist. morning rise -1577 Dec 24 j 22:05 0° Y 04'42 -1570 Aug 06 j 03:16 18° Y 39'03 direct retrograde -1576 Mar 21 j 12:22 1°Y58'43 -1570 Oct 23 j 18:18 17°**Y**°14'10 -2°05'43 evening set opposition 17°**Υ**14'57 28.84572 AU min. Earth dist. -1570 Oct 23 i 07:26 2°Y34'30 -2°01'27 conjunction -1576 Apr 06 j 14:08 direct -1569 Jan 09 i 08:50 15°**Y**50′01 17°**Y**44'36 minimum elong -1576 Apr 06 j 14:08 2°\bar{\gamma}34'30 2°01'27 evening set -1569 Apr 07 j 14:08 -1576 Apr 07 j 08:16 max. Earth dist. 2°Υ36'12 30.81084 AU -1576 Apr 22 j 18:17 3°Y10'33 -1569 Apr 23 j 18:39 18°**Y**20'33 -1°56'58 morning rise conjunction -1576 Jul 22 j 19:25 5°**Y**08'52 -1569 Apr 23 i 18:39 18°**Y**20'33 1°56'57 retrograde minimum elong -1576 Oct 09 j 08:42 3°**Y**44'38 28.81365 AU -1569 Apr 24 j 07:05 18°**Y**21'43 30.84655 AU min. Earth dist. max. Earth dist. -1576 Oct 10 j 00:13 3°Y43'32 -2°09'51 -1569 May 10 j 00:37 18°**Y**56'41 opposition morning rise 20°**Y**54'19 direct -1576 Dec 26 j 09:58 2°Y19'26 retrograde -1569 Aug 08 j 16:46 19°**Y**29'30 -2°04'21 evening set -1575 Mar 24 j 02:04 4°Υ13'31 opposition -1569 Oct 26 j 05:06 19°**Y**30'14 28.84977 AU min. Earth dist. -1569 Oct 25 j 18:46 18°Y05'17 conjunction -1575 Apr 09 j 04:07 4°Υ49'19 -2°01'22 -1568 Jan 11 j 22:04 direct 19°**Υ**59'55 -1575 Apr 09 j 04:07 4°Υ49'19 2°01'21 -1568 Apr 09 j 04:29 minimum elong evening set -1575 Apr 09 j 20:51 4°Υ50'53 30.81393 AU max. Earth dist. -1575 Apr 25 j 08:40 5°**Y**25′22 -1568 Apr 25 j 09:12 20°**Y**35′53 -1°55′36 morning rise conjunction -1575 Jul 25 j 08:52 7°**Y**23'37 -1568 Apr 25 j 09:12 retrograde minimum elong 20°**Y**35′54 1°55′36 -1575 Oct 12 j 11:15 5°**Υ**58'20 -2°09'40 max. Earth dist. -1568 Apr 25 j 19:22 20°**Y**36′50 30.85035 AU opposition min. Earth dist. -1575 Oct 11 j 19:40 5°**Υ**59'27 28.81752 AU morning rise -1568 May 11 j 15:33 21°Y12'01 direct -1575 Dec 28 j 21:09 4°**Υ**34'13 retrograde -1568 Aug 10 j 05:10 23°Y09'30 evening set -1574 Mar 26 j 15:48 6°**Y**28′23 opposition -1568 Oct 27 j 16:01 21°**Y**'44'42 -2°02'48 min. Earth dist. -1568 Oct 27 j 06:51 21°Υ45'22 28.85335 AU -1574 Apr 11 j 18:19 7°Y04'13 -2°01'06 -1567 Jan 13 j 08:51 20°**Y**20′26 conjunction direct

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1567 in astronomical counting style is the year 1568 BCE in historical counting style. 22°**Y**15'06 -1567 Apr 11 j 18:28 max. Earth dist. -1561 May 12 j 18:31 6°819'29 30.88969 AU evening set -1561 May 28 j 21:19 6°855'10 morning rise -1567 Apr 27 j 23:41 22°Y51'05 -1°54'04 -1561 Aug 26 j 15:44 8°851'31 retrograde conjunction -1561 Nov 12 j 18:01 -1567 Apr 27 j 23:41 22°**Y**'51'05 1°54'03 7°**8**27'04 -1°46'55 opposition minimum elong -1567 Apr 28 j 09:59 22°Υ′52'02 30.85377 AU -1561 Nov 12 j 14:03 7°**8**27'21 28.89540 AU max. Earth dist. min. Earth dist. -1567 May 14 j 06:04 23°Y27'13 morning rise direct -1560 Jan 29 j 20:12 6°802'27 -1567 Aug 12 j 15:28 25°Y24'31 retrograde evening set -1560 Apr 27 j 21:06 7°**8**57'27 -1567 Oct 30 j 02:47 23°Y59'46 -2°01'04 opposition 24°Υ00'21 28.85668 AU min. Earth dist. -1567 Oct 29 j 18:32 conjunction -1560 May 14 j 04:23 8°**8**33'31 -1°38'38 direct -1566 Jan 15 j 21:25 22°**Y**35'25 minimum elong -1560 May 14 j 04:24 8°**8**33'31 1°38'38 8°**8**33'57 30.89939 AU evening set -1566 Apr 14 j 08:38 24°**Y**30'06 max. Earth dist. -1560 May 14 j 09:01 -1560 May 30 j 11:49 morning rise 9°**8**09'38 $25^{\circ}\Upsilon06'06 - 1^{\circ}52'21$ 11°**8**05'50 conjunction -1566 Apr 30 j 14:03 retrograde -1560 Aug 28 j 04:55 minimum elong -1566 Apr 30 j 14:03 25°**Y**'06'06 1°52'21 opposition -1560 Nov 14 j 04:29 9°841'30 -1°43'57 max. Earth dist. -1566 Apr 30 j 22:25 25°**Y**06'53 30.85737 AU min. Earth dist. -1560 Nov 14 j 00:58 9°**8**41'45 28.90508 AU morning rise -1566 May 16 j 20:48 25°**Y**42'14 direct -1559 Jan 31 j 09:53 8°816'53 retrograde -1566 Aug 15 j 04:01 27°**Y**39'22 evening set -1559 Apr 30 j 11:18 10°**8**11'58 opposition -1566 Nov 01 j 13:21 26° Y 14'38 -1°59'09 min. Earth dist. -1566 Nov 01 j 05:26 26°Υ15'12 28.86052 AU conjunction -1559 May 16 j 18:37 10°848'02 -1°35'48 direct -1565 Jan 18 j 08:24 24° **Y**50'12 minimum elong -1559 May 16 j 18:38 10°848'02 1°35'46 evening set -1565 Apr 16 j 22:42 26°Y44'56 max. Earth dist. -1559 May 16 j 21:10 10°**8**48'17 30.90909 AU morning rise -1559 Jun 02 i 02:15 11°**8**24'09 conjunction -1565 May 03 i 04:33 27°Y20'56 -1°50'29 retrograde -1559 Aug 30 i 17:18 13°**8**20'14 minimum elong -1565 May 03 i 04:33 27°**Y**20′56 1°50'27 opposition -1559 Nov 16 i 15:02 11°855'59 -1°40'50 max. Earth dist. -1565 May 03 j 12:57 27°Υ21'43 30.86150 AU min. Earth dist. -1559 Nov 16 i 12:42 11°856'09 28.91463 AU -1565 May 19 j 11:22 27°**Y**57′04 -1558 Feb 02 j 21:01 10°831'21 morning rise direct -1565 Aug 17 j 14:35 29°Y 54'02 -1558 May 03 j 01:30 12°**8**26'30 retrograde evening set opposition -1565 Nov 04 j 00:02 28°Y29'20 -1°57'03 -1565 Nov 03 j 17:35 28°**Υ**29'48 28.86503 AU -1558 May 19 j 09:13 13°802'35 -1°32'49 min. Earth dist. conjunction -1558 May 19 j 09:13 -1564 Jan 20 j 19:00 27° Y 04'50 13°802'35 1°32'48 direct minimum elong -1564 Apr 18 j 12:48 -1558 May 19 j 11:35 28°Y59'36 13°**8**02'49 30.91827 AU max. Earth dist. evening set -1558 Jun 04 j 16:44 13°**8**38'42 morning rise -1564 May 04 j 18:53 29°**Y**35'36 -1°48'26 -1558 Jul 18 j 03:41 conjunction 15°8 -1564 May 04 j 18:54 29°**Y**35'36 1°48'25 -1558 Sep 02 j 04:24 15°**8**34'37 minimum elong retrograde max. Earth dist. -1564 May 05 j 02:01 29°**Υ**36'16 30.86663 AU -1558 Oct 18 j 22:54 15°R₩ -1564 May 15 j 17:34 -1558 Nov 19 j 01:29 14°**8**10'29 -1°37'35 0° 8 opposition -1564 May 21 j 01:56 0°**8**11'44 -1558 Nov 19 j 00:25 14°**8**10'33 28.92328 AU morning rise min. Earth dist. retrograde -1564 Aug 19 j 02:48 2°808'32 direct -1557 Feb 05 j 09:34 12°**8**45'49 opposition -1564 Nov 05 j 10:28 0°**8**43'52 -1°54'46 evening set -1557 May 05 j 15:55 14°**8**41'01 min. Earth dist. -1564 Nov 05 j 03:43 0°**8**44'21 28.87071 AU -1557 May 14 j 07:22 15°8 -1564 Dec 02 j 10:41 30°R℃ -1563 Jan 22 j 08:05 29°Y19'18 -1557 May 21 j 23:40 15°**8**17'07 -1°29'42 direct conjunction -1563 Mar 13 j 08:10 0° 8 -1557 May 21 j 23:41 15°**8**17'07 1°29'40 minimum elong -1563 Apr 21 j 02:50 1°814'07 max. Earth dist. -1557 May 21 j 23:33 15°**8**17'06 30.92654 AU evening set -1557 Jun 07 j 07:24 15°853'13 morning rise -1563 May 07 i 09:13 1°850'09 -1°46'13 conjunction retrograde -1557 Sep 04 i 17:16 17°**8**48'58 -1563 May 07 j 09:13 16°**8**24'54 -1°34'10 minimum elong 1°850'09 1°46'12 opposition -1557 Nov 21 i 11:57 -1563 May 07 j 15:48 max. Earth dist. 1°850'46 30.87295 AU min. Earth dist. -1557 Nov 21 i 11:31 16°**8**24'56 28.93100 AU morning rise -1563 May 23 j 16:21 2°**8**26'16 direct -1556 Feb 07 i 20:48 15°800'11 retrograde -1563 Aug 21 j 14:02 4°**8**22'55 evening set -1556 May 07 j 06:07 16°**8**55'26 -1563 Nov 07 j 21:06 2°858'18 -1°52'19 opposition min. Earth dist. -1563 Nov 07 j 15:51 2°858'41 28.87774 AU -1556 May 23 j 14:09 17°**8**31'33 -1°26'27 conjunction -1562 Jan 24 j 19:48 1°833'42 -1556 May 23 j 14:10 direct minimum elong 17°**8**31'33 1°26'26 evening set -1562 Apr 23 j 16:43 3°**8**28'34 max. Earth dist. -1556 May 23 j 13:41 17°**8**31'30 30.93372 AU morning rise -1556 Jun 08 j 21:43 18°**8**07'39 -1556 Sep 06 j 03:12 conjunction -1562 May 09 j 23:28 4°804'36 -1°43'51 retrograde 20°803'13 minimum elong -1562 May 09 j 23:29 4°804'36 1°43'50 opposition -1556 Nov 22 j 22:26 18°839'13 -1°30'38 -1562 May 10 j 05:32 4°**8**05'10 30.88079 AU min. Earth dist. -1556 Nov 22 j 23:51 18°**8**39'07 28.93769 AU max. Earth dist. -1562 May 26 j 06:45 4°840'43 -1555 Feb 09 j 07:40 17°**8**14'27 morning rise direct 6°837'13 -1555 May 09 j 20:19 19°**8**09'44 retrograde -1562 Aug 24 j 03:02 evening set opposition -1562 Nov 10 j 07:33 5°**8**12'41 -1°49'42 min. Earth dist. -1562 Nov 10 j 01:59 5°**8**13'05 28.88606 AU conjunction -1555 May 26 j 04:25 19°**8**45'50 -1°23'04 direct -1561 Jan 27 j 09:08 3°**8**48'04 minimum elong -1555 May 26 j 04:26 19°**8**45'50 1°23'03 evening set -1561 Apr 26 j 06:56 5°**8**43'00 max. Earth dist. -1555 May 26 j 02:09 19°**8**45'37 30.94026 AU morning rise -1555 Jun 11 j 12:06 20°**8**21'56 -1561 May 12 j 13:51 6°819'03 -1°41'19 -1555 Sep 08 j 14:43 22°817'19 conjunction retrograde -1561 May 12 j 13:51 6°819'03 1°41'18 -1555 Nov 25 j 08:41 20°**8**53'22 -1°26'57 minimum elong opposition

Dlanatary Dhan	omana of Nantuna f	From 1000	through 1209	(III) Astrodion	ot A.C. 18 Eab 2025	14.22	2000
•	omena of Neptune f nical year style is used: Th		-				page 28
min. Earth dist.	-1555 Nov 25 j 10:10	-	28.94394 AU	conjunction	-1548 Jun 11 j 05:49	5° Ⅱ 21'28	-0°56'23
direct	-1554 Feb 11 j 20:41	19° 8 28'32	20.74374 110	minimum elong	-1548 Jun 11 j 05:49	5° П 21'28	
evening set	-1554 May 12 j 10:18	21° 8 23'51		max. Earth dist.	-1548 Jun 10 j 21:38		30.99884 AU
evening sec	199 i May 12 j 10.10	21 02331		morning rise	-1548 Jun 27 j 12:51	5° I I57'26	30.99001710
conjunction	-1554 May 28 j 18:36	21° 8 59'57	-1°19'35	retrograde	-1548 Sep 24 j 00:00	7° ∏ 51'41	
minimum elong	-1554 May 28 j 18:37	21° 8 59'57		opposition	-1548 Dec 10 j 07:58	6° Ⅱ 28'13	-0°58'03
max. Earth dist.	-1554 May 28 j 15:36		30.94638 AU	min. Earth dist.	-1548 Dec 10 j 14:22		29.00519 AU
morning rise	-1554 Jun 14 j 02:13	22° 8 36'02		direct	-1547 Feb 27 j 10:33	5° Ⅱ 03'11	
retrograde	-1554 Sep 11 j 00:55	24° 8 31'15		evening set	-1547 May 28 j 11:07	6° Ⅱ 58'49	
opposition	-1554 Nov 27 j 19:04	23° 8 07'19	-1°23'10				
min. Earth dist.	-1554 Nov 27 j 22:25	23° 8 07'05	28.95003 AU	conjunction	-1547 Jun 13 j 19:36	7° Ⅱ 34'54	-0°52'12
direct	-1553 Feb 14 j 08:14	21° 8 42'25		minimum elong	-1547 Jun 13 j 19:37	7° Ⅱ 34'54	0°52'10
evening set	-1553 May 15 j 00:21	23° 8 37'46		max. Earth dist.	-1547 Jun 13 j 11:32		31.01097 AU
				morning rise	-1547 Jun 30 j 02:17	8° Ⅱ 10'51	
conjunction	-1553 May 31 j 08:46	24° 8 13'53		retrograde	-1547 Sep 26 j 09:29	10° Ⅱ 04'59	
minimum elong	-1553 May 31 j 08:47	24° 8 13'53		opposition	-1547 Dec 12 j 18:10	8° Ⅱ 41'38	
max. Earth dist.	-1553 May 31 j 04:50	_	30.95268 AU	min. Earth dist.	-1547 Dec 13 j 02:17		29.01730 AU
morning rise	-1553 Jun 16 j 16:21	24° 8 49'56		direct	-1546 Mar 01 j 21:22	7° Ⅱ 16'36	
retrograde	-1553 Sep 13 j 12:46	26° 8 44'58	1010115	evening set	-1546 May 31 j 00:55	9° Ⅱ 12'18	
opposition	-1553 Nov 30 j 05:08	25° 8 21'06		. ,.	1546 1 16:00 15	00T 40122	00.4715.5
min. Earth dist.	-1553 Nov 30 j 08:21	_	28.95645 AU	conjunction	-1546 Jun 16 j 09:15	9° ∏ 48'22	
direct	-1552 Feb 16 j 21:27	23° 8 56'08 25° 8 51'31		minimum elong	-1546 Jun 16 j 09:15	9° ∏ 48'22	31.02301 AU
evening set	-1552 May 16 j 14:22	25.031.31		max. Earth dist. morning rise	-1546 Jun 15 j 23:25 -1546 Jul 02 j 15:52	9° П 47'27 10° П 24'18	31.02301 AU
conjunction	-1552 Jun 01 j 22:46	26° 8 27'37	-1°12'15	retrograde	-1546 Sep 28 j 20:30	10 П 24 18 12° П 18'17	
minimum elong	-1552 Jun 01 j 22:47	26° 8 27'37		opposition	-1546 Dec 15 j 04:20	12 Ⅲ 1617 10° Ⅲ 55'02	-0°48'56
max. Earth dist.	-1552 Jun 01 j 17:34	_	30.95946 AU	min. Earth dist.	-1546 Dec 15 j 12:31		29.02894 AU
morning rise	-1552 Jun 18 j 06:18	27° 8 03'39	30.73740710	direct	-1545 Mar 04 j 09:45	9° П 29'59	27.02074710
retrograde	-1552 Sep 15 j 00:26	28° 8 58'31		evening set	-1545 Jun 02 j 14:48	11° ∏ 25'45	
opposition	-1552 Dec 01 j 15:27	27° 8 34'41	-1°15'13	844	,		
min. Earth dist.	-1552 Dec 01 j 20:03		28.96377 AU	conjunction	-1545 Jun 18 j 23:03	12° ∏ 01'48	-0°43'35
direct	-1551 Feb 18 j 09:01	26° 8 09'41		minimum elong	-1545 Jun 18 j 23:03	12° Ⅱ 01'48	0°43'33
evening set	-1551 May 19 j 03:59	28° 8 05'06		max. Earth dist.	-1545 Jun 18 j 12:28	12° Ⅱ 00'49	31.03414 AU
-				morning rise	-1545 Jul 05 j 05:18	12° Ⅱ 37'42	
conjunction	-1551 Jun 04 j 12:33	28° 8 41'11	-1°08'26	retrograde	-1545 Oct 01 j 06:27	14° ∏ 31'33	
minimum elong	-1551 Jun 04 j 12:34	28° 8 41'11	1°08'24	opposition	-1545 Dec 17 j 14:38	13° Ⅱ 08′23	-0°44'15
max. Earth dist.	-1551 Jun 04 j 07:31	28° 8 40'43	30.96739 AU	min. Earth dist.	-1545 Dec 18 j 00:48	13° Ⅱ 07'40	29.03963 AU
morning rise	-1551 Jun 20 j 19:54	29° 8 17'12		direct	-1544 Mar 05 j 20:12	11° Ⅱ 43′18	
	-1551 Jul 11 j 14:58	Π °0		evening set	-1544 Jun 04 j 04:36	13° Ⅱ 39'06	
retrograde	-1551 Sep 17 j 12:33	1° Ⅱ 11'54					
	-1551 Nov 27 j 01:52	30° ₹8		conjunction	-1544 Jun 20 j 12:43	14° Ⅱ 15′08	
opposition	-1551 Dec 04 j 01:37	29° 8 48'08		minimum elong	-1544 Jun 20 j 12:43	14° Ⅱ 15′08	
min. Earth dist.	-1551 Dec 04 j 06:19		28.97221 AU	max. Earth dist.	-1544 Jun 20 j 00:55		31.04439 AU
direct	-1550 Feb 20 j 23:20	28° 8 23'06		morning rise	-1544 Jul 06 j 18:44	14° ∏ 51′01	
	-1550 May 13 j 00:15	0°Щ		retrograde	-1544 Oct 02 j 17:28	16° Ⅱ 44'42	
evening set	-1550 May 21 j 17:52	0° Ⅱ 18'34		opposition	-1544 Dec 19 j 00:53	15° Ⅱ 21'36	
agniumation	1550 Jun 07:02:10	0°∏54'39	1904/21	min. Earth dist. direct	-1544 Dec 19 j 11:03	15°Щ20'53 13°Щ56'29	29.04928 AU
conjunction minimum elong	-1550 Jun 07 j 02:19	0° Д 54'39			-1543 Mar 08 j 08:56	13° Д 3629 15° Д 52'18	
max. Earth dist.	-1550 Jun 07 j 02:19 -1550 Jun 06 j 19:38		30.97659 AU	evening set	-1543 Jun 06 j 18:12	13 1132 18	
morning rise	-1550 Jun 23 j 09:41	0 П 34 02 1° П 30'39	50.77039 AU	conjunction	-1543 Jun 23 j 02:06	16° Ⅱ 28'19	-0°34'44
retrograde	-1550 Sep 20 j 00:07	3° Ⅱ 25'12		minimum elong	-1543 Jun 23 j 02:06	16° Ⅱ 28'19	
opposition	-1550 Dec 06 j 11:41	2° Ⅱ 01'30	-1°06'50	max. Earth dist.	-1543 Jun 22 j 12:52		31.05357 AU
min. Earth dist.	-1550 Dec 06 j 17:06		28.98215 AU	morning rise	-1543 Jul 09 j 07:51	17° Ⅱ 04'10	31.0030 / 110
direct	-1549 Feb 23 j 10:36	0° П 36'27	20.90215110	retrograde	-1543 Oct 05 j 04:00	18° Ⅲ 57'42	
evening set	-1549 May 24 j 07:35	2° I I31'58		opposition	-1543 Dec 21 j 11:11	17° Ⅲ 34'38	-0°34'45
٥	J J 11.135			min. Earth dist.	-1543 Dec 21 j 22:59		29.05811 AU
conjunction	-1549 Jun 09 j 16:14	3° Ⅱ 08'03	-1°00'30	direct	-1542 Mar 10 j 20:48	16° Ⅱ 09'28	
minimum elong	-1549 Jun 09 j 16:14		1°00'28	evening set	-1542 Jun 09 j 07:46	18° Ⅱ 05'18	
max. Earth dist.	-1549 Jun 09 j 09:55		30.98719 AU	-	J		
morning rise	-1549 Jun 25 j 23:17	3° Ⅱ 44′03		conjunction	-1542 Jun 25 j 15:36	18° Ⅱ 41'17	-0°30'14
retrograde	-1549 Sep 22 j 11:10	5° Ⅱ 38′26		minimum elong	-1542 Jun 25 j 15:36	18° Ⅱ 41'17	0°30'13
opposition	-1549 Dec 08 j 21:52	4° Ⅱ 14'51		max. Earth dist.	-1542 Jun 25 j 02:06	18° Ⅱ 40′03	31.06211 AU
min. Earth dist.	-1549 Dec 09 j 04:05	4° Ⅱ 14'25	28.99321 AU	morning rise	-1542 Jul 11 j 20:59	19° Ⅱ 17'06	
direct	-1548 Feb 25 j 23:19	2° Ⅱ 49'48		retrograde	-1542 Oct 07 j 14:48	21° Ⅱ 10′28	
evening set	-1548 May 25 j 21:24	4° Ⅱ 45′23		opposition	-1542 Dec 23 j 21:13	19° Ⅱ 47'26	
				min. Earth dist.	-1542 Dec 24 j 09:32	19° ∏ 46'34	29.06628 AU

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1541 in astronomical counting style is the year 1542 BCE in historical counting style. opposition direct -1541 Mar 13 i 10:59 18°**Ⅲ**22'13 -1535 Jan 05 i 10:09 3°500'38 -0°00'23 min. Earth dist. -1541 Jun 11 j 21:25 20°**Ⅱ**18'04 -1535 Jan 06 j 01:58 2°559'31 29.12690 AU evening set -1535 Feb 03 j 04:16 2°9514'51 asc node -1535 Mar 26 j 09:14 -1541 Jun 28 j 04:53 20°II54'02 -0°25'43 direct 1°935'20 conjunction -1541 Jun 28 j 04:53 20°II54'02 0°25'41 -1535 Jun 25 j 04:13 minimum elong evening set 3°931'23 -1541 Jun 27 j 13:35 20°**Д**52'37 31.07019 AU max. Earth dist. morning rise -1541 Jul 14 j 10:02 21°**Ⅲ**29'48 conjunction -1535 Jul 11 j 09:54 4°**©**07'12 0°02'04 23°**II**23'01 -1535 Jul 11 j 09:54 retrograde -1541 Oct 10 j 02:06 minimum elong 4°907'12 0°02'05 -1535 Jul 11 j 03:20 4°906'37 opposition -1541 Dec 26 j 07:23 22°**Ⅲ**00'01 -0°25'03 behind sun begin -1535 Jul 11 j 16:28 min. Earth dist. -1541 Dec 26 j 20:30 21°**Д**59'06 29.07442 AU behind sun end 4°9507'47 direct -1540 Mar 14 j 22:33 20°**Ⅲ**34'44 max. Earth dist. -1535 Jul 10 j 16:10 4°905'34 31.13331 AU -1540 Jun 13 j 10:38 22°**Ⅲ**30′36 -1535 Jul 27 j 12:30 evening set morning rise 4°9542'45 -1535 Oct 22 j 16:20 retrograde 6°935'17 conjunction -1540 Jun 29 j 18:00 23°II06'32 -0°21'09 opposition -1534 Jan 07 j 20:19 5°9512'46 0°04'34 minimum elong -1540 Jun 29 j 18:00 23°II06'32 0°21'07 min. Earth dist. -1534 Jan 08 j 11:51 5°5011'41 29.13987 AU max. Earth dist. -1540 Jun 29 j 03:09 23°**Д**05'10 31.07839 AU direct -1534 Mar 28 j 21:06 3°9547'31 morning rise -1540 Jul 15 j 22:37 23°**Ⅱ**42'16 evening set -1534 Jun 27 j 17:19 5°9543'38 retrograde -1540 Oct 11 j 12:26 25°**Ⅲ**35'19 opposition -1540 Dec 27 j 17:33 24° II 12'22 -0°20'10 conjunction -1534 Jul 13 j 22:33 6°9519'25 0°06'42 min. Earth dist. -1540 Dec 28 j 07:28 24°**Д**11'23 29.08280 AU minimum elong -1534 Jul 13 j 22:34 6°9519'25 0°06'44 direct -1539 Mar 17 j 12:08 22°II47'03 behind sun begin -1534 Jul 13 j 16:26 6°9518'52 evening set -1539 Jun 15 i 23:57 24°**∏**42'55 behind sun end -1534 Jul 14 i 04:41 6°9519'58 max. Earth dist. -1534 Jul 13 i 03:47 6°517'41 31.14613 AU conjunction -1539 Jul 02 i 06:53 25°II18'50 -0°16'34 morning rise -1534 Jul 30 i 00:40 6°954'56 -1539 Jul 02 i 06:53 25° II 18'50 0°16'32 retrograde -1534 Oct 25 j 02:45 8°9547'24 minimum elong -1539 Jul 01 j 14:21 25°**Ⅲ**17'18 31.08721 AU -1533 Jan 10 j 06:34 7°\$25'00 max. Earth dist. opposition 0°09'32 -1539 Jul 18 j 11:17 25°**I**I54'31 -1533 Jan 10 j 23:32 7°**©**23'49 29.15256 AU morning rise min. Earth dist. -1539 Oct 14 j 00:29 27°**Ⅱ**47'26 -1533 Mar 31 j 08:03 5°959'47 retrograde direct -1539 Dec 30 j 03:32 26°II24'32 -0°15'15 -1533 Jun 30 j 06:22 7°955'58 evening set opposition -1539 Dec 30 j 17:18 26°**Ⅲ**23'34 29.09216 AU min. Earth dist. -1538 Mar 20 j 00:09 -1533 Jul 16 j 11:16 24°**Ⅲ**59'11 conjunction 8°931'43 0°11'19 direct -1538 Jun 18 j 13:02 8°931'43 26°**Ⅲ**55'05 minimum elong -1533 Jul 16 j 11:15 0°11'20 evening set -1533 Jul 16 j 06:31 behind sun begin 8°931'18 -1538 Jul 04 j 19:50 27°**Ⅲ**30'58 -0°11'57 -1533 Jul 16 j 16:00 conjunction behind sun end 8°932'08 -1538 Jul 04 j 19:51 27°**II**30'58 0°11'56 -1533 Jul 15 j 16:21 minimum elong max. Earth dist. 8°929'58 31.15838 AU -1538 Jul 04 j 15:22 27°**Ⅲ**30′34 -1533 Aug 01 j 12:47 behind sun begin morning rise 9°9507'11 -1538 Jul 05 j 00:19 -1533 Oct 27 j 13:25 behind sun end 27°**Ⅲ**31'22 retrograde 10°959'35 max. Earth dist. -1538 Jul 04 j 03:50 27°**П**29'29 31.09704 AU opposition -1532 Jan 12 j 17:01 9°537'17 0°14'28 morning rise -1538 Jul 20 j 23:41 28°**Ⅱ**06'37 min. Earth dist. -1532 Jan 13 j 10:26 9°536'04 29.16422 AU retrograde -1538 Oct 16 j 09:28 29°**I**59'24 direct -1532 Apr 01 j 21:23 8°9512'06 -1537 Jan 01 j 13:47 28°II36'34 -0°10'18 -1532 Jul 01 j 19:21 10°908'19 opposition evening set min. Earth dist. -1537 Jan 02 j 04:48 28°**Д**35'31 29.10258 AU -1537 Mar 22 j 11:46 27°**I**11'13 -1532 Jul 17 j 23:37 10°5944'02 0°15'55 direct conjunction -1537 Jun 21 j 02:15 29°**Ⅲ**07′09 -1532 Jul 17 j 23:37 10°5544'02 0°15'57 evening set minimum elong max. Earth dist. -1532 Jul 17 j 03:02 10°5942'07 31.16942 AU -1537 Jul 07 i 08:36 29°II43'01 -0°07'21 conjunction morning rise -1532 Aug 03 i 00:42 11°9519'28 29°**Ⅱ**43'01 -1532 Oct 29 i 00:50 minimum elong -1537 Jul 07 i 08:36 0°07'19 retrograde 13°9511'48 -1537 Jul 07 i 02:35 29°**∏**42'29 behind sun begin opposition -1531 Jan 14 i 03:28 11°9549'33 0°19'23 29°**II**43'33 behind sun end -1537 Jul 07 i 14:36 min. Earth dist. -1531 Jan 14 i 21:35 11°5548'17 29.17477 AU max. Earth dist. -1537 Jul 06 j 15:23 29°**Д**41'26 31.10815 AU direct -1531 Apr 04 j 08:13 10°924'22 -1537 Jul 15 j 00:07 0ಂತಾ -1531 Jul 04 j 08:11 12°920'38 evening set -1537 Jul 23 j 12:08 0°9518'38 morning rise -1537 Oct 18 j 20:04 2°911'19 -1531 Jul 20 j 12:09 12°956'18 0°20'30 retrograde conjunction 12°**©**56'18 opposition -1536 Jan 03 j 23:50 0°9548'35 -0°05'21 minimum elong -1531 Jul 20 j 12:09 0°20'31 min. Earth dist. -1536 Jan 04 j 14:16 0°5547'34 29.11424 AU max. Earth dist. -1531 Jul 19 j 15:50 12°954'25 31.17924 AU -1531 Aug 05 j 12:33 -1536 Feb 03 j 17:01 30°RⅡ morning rise 13°931'41 29°**Ⅲ**23'15 direct -1536 Mar 23 j 23:39 retrograde -1531 Oct 31 j 11:29 15°923'55 -1536 May 11 j 05:50 000 -1530 Jan 16 j 13:52 14°9501'44 opposition 0°24'16 -1536 Jun 22 j 15:19 -1530 Jan 17 j 09:04 14°500'24 29.18391 AU evening set 1°9519'14 min. Earth dist. -1530 Apr 06 j 22:17 direct 12°936'33 -1536 Jul 08 j 21:22 1°555'04 -0°02'43 -1530 Jul 06 j 21:08 conjunction evening set 14°**©**32'49 minimum elong -1536 Jul 08 j 21:23 1°955'04 0°02'41 max. Earth dist. -1530 Jul 22 j 02:12 15°506'23 31.18780 AU behind sun begin -1536 Jul 08 j 14:49 1°954'30 behind sun end -1536 Jul 09 j 03:57 1°955'39 conjunction -1530 Jul 23 j 00:28 15°**©**08'27 0°25'02 max. Earth dist. -1536 Jul 08 j 04:15 1°953'30 31.12032 AU minimum elong -1530 Jul 23 j 00:28 15°908'27 0°25'04 -1536 Jul 25 j 00:22 2°530'40 -1530 Aug 08 j 00:29 15°9543'47 morning rise morning rise -1536 Oct 20 j 05:49 4°523'15 -1530 Nov 02 j 23:40 17°935'56 retrograde retrograde

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1529 in astronomical counting style is the year 1530 BCE in historical counting style. -1529 Jan 19 i 00:15 16°513'46 0°29'06 max. Earth dist. -1523 Aug 06 j 10:56 0°**Ω**26'01 31.24298 AU opposition -1529 Jan 19 j 19:29 16°5012'26 29.19196 AU min. Earth dist. -1529 Apr 09 j 11:18 conjunction -1523 Aug 07 j 10:48 0°Ω28'13 0°55'23 direct 14°9548'33 -1529 Jul 09 j 09:47 -1523 Aug 07 j 10:48 16°9544'51 0°Ω28'13 0°55'24 evening set minimum elong 1°**Q**03'13 -1523 Aug 23 j 06:34 morning rise -1529 Jul 25 j 12:45 -1523 Nov 17 j 19:05 2°**Ω**54'54 conjunction 17°**©**20'26 0°29'33 retrograde -1529 Jul 25 j 12:45 -1522 Feb 03 j 01:39 minimum elong 17°9520'26 0°29'34 opposition 1°**Ω**32'57 1°01'18 -1529 Jul 24 j 14:50 max. Earth dist. 17°5518'24 31.19527 AU min. Earth dist. -1522 Feb 03 j 22:54 1°**Ω**31'29 29.24855 AU morning rise -1529 Aug 10 j 12:01 17°955'43 direct -1522 Apr 24 j 20:13 0°**Ω**07'42 retrograde -1529 Nov 05 j 08:21 19°9547'46 evening set -1522 Jul 24 j 23:23 2°₽04'01 opposition -1528 Jan 21 j 10:47 18°**©**25'38 0°33'54 -1522 Aug 09 j 22:20 2°**Ω**39'17 0°59'26 min. Earth dist. -1528 Jan 22 j 07:30 18°524'11 29.19909 AU conjunction -1522 Aug 09 j 22:20 2°**Ω**39'17 0°59'28 direct -1528 Apr 10 j 23:46 17°900'23 minimum elong evening set -1528 Jul 10 j 22:26 18°956'39 max. Earth dist. -1522 Aug 08 j 23:19 2°**Ω**37'09 31.25294 AU max. Earth dist. -1528 Jul 26 j 01:38 19°530'03 31.20221 AU morning rise -1522 Aug 25 j 17:20 3°**Ω**14'14 retrograde -1522 Nov 20 j 05:19 5°**Ω**05'54 conjunction -1528 Jul 27 j 00:45 19°532'12 0°34'00 opposition -1521 Feb 05 j 12:24 3°**Ω**44'02 1°05'35 minimum elong -1528 Jul 27 j 00:44 19°**©**32'11 0°34'02 min. Earth dist. -1521 Feb 06 j 10:23 3°**Ω**42'31 29.25833 AU morning rise -1528 Aug 11 j 23:35 20°9507'26 direct -1521 Apr 27 j 09:34 2°Ω18'50 retrograde -1528 Nov 06 j 18:47 21°959'23 evening set -1521 Jul 27 j 11:28 4°Ω15'12 opposition -1527 Jan 22 j 21:10 20°537'15 0°38'38 max. Earth dist. -1521 Aug 11 j 09:10 4°**Ω**48'09 31.26240 AU min. Earth dist. -1527 Jan 23 i 17:18 20°935'51 29.20593 AU direct -1527 Apr 13 j 12:24 19°9511'58 conjunction -1521 Aug 12 i 09:35 4°Ω50'25 1°03'25 evening set -1527 Jul 13 j 10:42 21°9508'13 minimum elong -1521 Aug 12 j 09:35 4°Ω50'25 1°03'26 morning rise -1521 Aug 28 j 04:04 5°**Ω**25'18 -1527 Jul 29 j 12:34 21°543'43 0°38'25 -1521 Nov 22 j 17:26 7°Ω16'59 conjunction retrograde -1527 Jul 29 j 12:34 -1520 Feb 07 j 23:08 5° **Ω**55'10 1°09'46 21°9643'43 0°38'26 opposition minimum elong -1527 Jul 28 j 13:40 -1520 Feb 08 j 20:44 5°**Ω**53'40 29.26747 AU max. Earth dist. 21°5541'36 31.20896 AU min. Earth dist. -1527 Aug 14 j 10:43 -1520 Apr 28 j 21:52 4°**Ω**30′01 22°9518'54 direct morning rise -1527 Nov 09 j 04:09 -1520 Jul 28 j 23:22 6° **Ω**26'24 retrograde 24°9510'46 evening set -1526 Jan 25 j 07:41 22°548'39 0°43'18 opposition -1526 Jan 26 j 05:04 -1520 Aug 13 j 21:00 7°**Ω**01'34 1°07'17 min. Earth dist. 22°547'10 29.21292 AU conjunction -1520 Aug 13 j 20:59 -1526 Apr 15 j 23:01 21°9523'20 7°**Ω**01'34 1°07'19 direct minimum elong -1520 Aug 12 j 21:11 -1526 Jul 15 j 23:03 23°9519'35 6°**Ω**59'21 31.27089 AU evening set max. Earth dist. -1526 Jul 31 j 01:08 -1520 Aug 29 j 14:39 7°**Ω**36′25 max. Earth dist. 23°952'53 31.21620 AU morning rise -1520 Nov 24 j 02:47 9°**Ω**28′05 retrograde -1526 Aug 01 j 00:18 -1519 Feb 09 j 10:04 8°Ω06'20 1°13'52 conjunction 23°955'02 0°42'45 opposition minimum elong -1526 Aug 01 j 00:18 23°955'02 0°42'47 min. Earth dist. -1519 Feb 10 j 09:01 8°**Ω**04'45 29.27545 AU morning rise -1526 Aug 16 j 21:54 24°930'10 direct -1519 May 01 j 09:54 6°**Ω**41'13 retrograde -1526 Nov 11 j 13:07 26°9521'56 evening set -1519 Jul 31 j 11:13 8°**Ω**37'36 -1525 Jan 27 j 18:02 24°959'51 0°47'55 max. Earth dist. -1519 Aug 15 j 07:11 9° **Ω**10'25 31.27820 AU opposition min. Earth dist. -1525 Jan 28 j 14:40 24°\$58'25 29.22048 AU -1525 Apr 18 j 11:35 23°934'31 -1519 Aug 16 j 08:06 9°Ω12'44 1°11'04 direct conjunction -1525 Jul 18 j 11:20 25°930'46 -1519 Aug 16 j 08:06 9°**Ω**12'44 1°11'05 evening set minimum elong -1519 Sep 01 j 01:17 9°**Ω**47'32 morning rise -1519 Nov 26 i 13:40 11°**Ω**39'11 conjunction -1525 Aug 03 j 11:58 26°506'10 0°47'02 retrograde minimum elong -1525 Aug 03 j 11:58 26°506'10 0°47'03 opposition -1518 Feb 11 i 20:53 10°Ω17'28 1°17'51 max. Earth dist. -1525 Aug 02 j 12:22 26°503'58 31.22416 AU min. Earth dist. -1518 Feb 12 i 19:14 10°Ω15'55 29.28205 AU morning rise -1525 Aug 19 i 08:55 26°9541'15 direct -1518 May 03 j 22:48 8°**Ω**52'22 evening set -1525 Nov 13 i 22:26 28°932'59 -1518 Aug 02 j 23:02 10°**Ω**48'46 retrograde -1524 Jan 30 j 04:39 27°910'55 0°52'27 opposition min. Earth dist. -1524 Jan 31 j 01:56 27°509'26 29.22909 AU -1518 Aug 18 j 19:21 11°Ω23'51 1°14'44 conjunction 25°945'36 -1518 Aug 18 j 19:21 11°**Ω**23'51 1°14'46 direct -1524 Apr 19 j 21:57 minimum elong evening set -1524 Jul 19 j 23:17 27°5541'51 max. Earth dist. -1518 Aug 17 j 18:28 11°**Ω**21'32 31.28396 AU morning rise -1518 Sep 03 j 11:46 11°**Ω**58'36 conjunction -1524 Aug 04 j 23:24 28°917'12 0°51'15 retrograde -1518 Nov 28 j 23:26 13°Ω50'15 -1524 Aug 04 j 23:24 minimum elong 28°917'12 0°51'16 opposition -1517 Feb 14 j 07:50 12°**Ω**28'33 1°21'43 -1524 Aug 04 j 00:29 28°515'04 31.23324 AU min. Earth dist. -1517 Feb 15 j 07:31 12° **Ω**26'55 29.28725 AU max. Earth dist. -1524 Aug 20 j 19:41 28°952'14 -1517 May 06 j 09:50 11°**Ω**03′27 morning rise direct -1524 Sep 24 j 19:18 $0^{\circ}\Omega$ -1517 Aug 05 j 10:45 evening set 12°**Ω**59'51 retrograde -1524 Nov 15 j 07:51 0°**Ω**43'56 max. Earth dist. -1517 Aug 20 j 05:12 13°**Ω**32'32 31.28854 AU -1523 Jan 07 j 19:33 30°Rூ opposition -1523 Jan 31 j 15:13 29°521'56 0°56'55 conjunction -1517 Aug 21 j 06:23 13°**Ω**34'53 1°18'18 min. Earth dist. -1523 Feb 01 j 12:18 29°520'28 29.23851 AU minimum elong -1517 Aug 21 j 06:22 13°**ん**34'53 1°18'19 direct -1523 Apr 22 j 10:02 27°956'38 morning rise -1517 Sep 05 j 22:12 14°**Ω**09'35 -1523 Jul 22 j 11:24 29°952'55 -1517 Sep 30 j 18:23 15°Ω evening set -1523 Jul 25 j 17:22 $0^{\circ}\Omega$ -1517 Dec 01 j 08:25 16°**Ω**01'13 retrograde

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1516 in astronomical counting style is the year 1517 BCE in historical counting style. conjunction -1516 Feb 04 i 05:39 15°RΩ -1510 Sep 05 i 07:36 28°**Ω**48'38 1°39'46 28°**Ω**48'38 1°39'48 opposition -1516 Feb 16 j 18:47 14°Ω39'31 1°25'27 minimum elong -1510 Sep 05 j 07:35 -1516 Feb 17 j 17:49 14°**Ω**37'56 29.29124 AU -1510 Sep 20 j 19:09 29°**£**23′02 min. Earth dist. morning rise -1510 Oct 08 j 12:03 direct -1516 May 07 j 22:43 13°**Ω**14'25 0° m -1510 Dec 16 j 07:08 -1516 Aug 01 j 21:54 15°€ retrograde 1° Mp 14'47 -1509 Feb 27 j 19:19 evening set -1516 Aug 06 j 22:09 15°**Ω**10'47 30°R€ 29° **Ω**53'07 1°47'55 opposition -1509 Mar 04 j 00:07 15°**Ω**45'46 1°21'45 conjunction -1516 Aug 22 j 17:06 min. Earth dist. -1509 Mar 04 j 21:40 29°**Ω**51'38 29.32230 AU minimum elong -1516 Aug 22 j 17:06 15°**Ω**45'46 1°21'46 direct -1509 May 24 j 08:31 28°**£**28′12 max. Earth dist. -1516 Aug 21 j 15:27 15°**Ω**43'23 31.29202 AU -1509 Aug 11 j 15:02 0° m morning rise -1516 Sep 07 j 08:19 16°**Ω**20′26 evening set -1509 Aug 23 j 03:22 0° Mp 24'28retrograde -1516 Dec 02 j 17:32 18°**Ω**12'04 opposition -1515 Feb 18 j 05:48 16°**Ω**50'20 1°29'04 conjunction -1509 Sep 07 j 17:51 0° m 59'08 1°42'18 min. Earth dist. -1515 Feb 19 j 05:32 16°**Ω**48'43 29.29453 AU minimum elong -1509 Sep 07 j 17:50 0° m 59'08 1°42'18 direct -1515 May 10 j 09:03 15°**Ω**25'14 max. Earth dist. -1509 Sep 06 j 18:42 0° M 56'58 31.32412 AU evening set -1515 Aug 09 j 09:27 17°**Ω**21'34 morning rise -1509 Sep 23 j 04:43 1° m 33'29 max. Earth dist. -1515 Aug 24 j 02:58 17°**Ω**54'11 31.29507 AU retrograde -1509 Dec 18 j 17:46 3°m/25'18 opposition -1508 Mar 05 j 11:35 2°m/03'39 1°50'32 conjunction -1515 Aug 25 j 03:51 17°Ω56'31 1°25'04 min. Earth dist. -1508 Mar 06 j 09:56 2° 1002'08 29.32827 AU minimum elong -1515 Aug 25 j 03:51 17°**Ω**56'31 1°25'05 direct -1508 May 25 j 19:56 0° m 38'49 morning rise -1515 Sep 09 j 18:23 18°**Ω**31′08 evening set -1508 Aug 24 j 14:02 2° m/35'04 retrograde -1515 Dec 05 i 02:14 20°**Ω**22'44 max. Earth dist. -1508 Sep 08 i 05:00 3° m 07'33 31.32973 AU opposition -1514 Feb 20 i 16:38 19°Ω01'00 1°32'34 min. Earth dist. -1514 Feb 21 i 16:10 18°Ω59'23 29.29746 AU conjunction -1508 Sep 09 i 03:52 3° m 09'41 1°44'41 -1508 Sep 09 j 03:52 -1514 May 12 j 20:48 17°**Ω**35'53 3°m 09'41 1°44'42 direct minimum elong evening set -1514 Aug 11 j 20:46 19°**Ω**32'11 -1508 Sep 24 j 14:14 3° m 44'01 morning rise -1508 Dec 20 j 02:42 5° m 35'53 retrograde -1514 Aug 27 j 14:23 20°Ω07'04 1°28'17 -1507 Mar 07 j 22:58 4° Mp 14'15 1°53'00 conjunction opposition -1514 Aug 27 j 14:23 -1507 Mar 08 j 20:26 4° 10 12'47 29.33337 AU 20°Ω07'04 1°28'18 min. Earth dist. minimum elong 20°**Ω**04'41 31.29806 AU -1507 May 28 j 08:41 -1514 Aug 26 j 12:48 2° m 49'28 max. Earth dist. direct -1514 Sep 12 j 04:24 4° m 45'42 20°**Ω**41'39 -1507 Aug 27 j 00:50 morning rise evening set -1514 Dec 07 j 13:01 22°**Ω**33'16 retrograde -1513 Feb 23 j 03:39 -1507 Sep 11 j 14:01 21°Ω11'30 1°35'55 conjunction 5° m 20'16 1°46'55 opposition -1513 Feb 24 j 02:49 21°**Ω**09'55 29.30084 AU -1507 Sep 11 j 14:01 5° m/20'16 1°46'54 min. Earth dist. minimum elong -1513 May 15 j 07:06 -1507 Sep 10 j 14:42 5° Mp 18'06 31.33420 AU direct 19°**Ω**46′23 max. Earth dist. -1507 Sep 26 j 23:50 5° m 54'34 evening set -1513 Aug 14 j 07:45 21°**Ω**42'40 morning rise -1507 Dec 22 j 12:13 max. Earth dist. -1513 Aug 29 j 00:44 22°**Ω**15'16 31.30169 AU retrograde 7° Mp 46'29 opposition -1506 Mar 10 j 10:23 6° m 24'52 1°55'18 conjunction -1513 Aug 30 j 00:50 22°Ω17'30 1°31'21 min. Earth dist. -1506 Mar 11 j 08:22 6° Mp 23'22 29.33736 AU minimum elong -1513 Aug 30 j 00:50 22°Ω17'30 1°31'22 direct -1506 May 30 j 18:56 5° m 00'07 morning rise -1513 Sep 14 j 14:03 22°**Ω**52'02 -1506 Aug 29 j 11:33 6° m 56'19 evening set -1513 Dec 09 j 22:42 24° **Ω**43'40 max. Earth dist. -1506 Sep 13 j 01:44 7° m/28'45 31.33746 AU retrograde -1512 Feb 25 j 14:49 23°**Ω**21'54 1°39'08 opposition min. Earth dist. -1512 Feb 26 j 14:02 23°**Ω**20'18 29.30494 AU -1506 Sep 14 j 00:13 7° m/30'51 1°48'59 conjunction -1512 May 16 j 20:16 21°**Ω**56'49 -1506 Sep 14 j 00:13 7°m/30'51 direct minimum elong 1°49'00 -1506 Sep 29 i 09:24 8° m 05'07 evening set -1512 Aug 15 i 18:50 23°Ω53'05 morning rise max. Earth dist. -1512 Aug 30 j 10:21 24°**Ω**25'33 31.30633 AU retrograde -1506 Dec 24 i 21:08 9° m 57'05 opposition -1505 Mar 12 j 22:01 8° mp 35'27 1°57'26 conjunction -1512 Aug 31 i 11:06 24°Ω27'52 1°34'18 min. Earth dist. -1505 Mar 13 j 19:49 8° m 33'58 29.33985 AU -1512 Aug 31 j 11:06 24°Ω27'52 1°34'19 direct -1505 Jun 02 j 06:57 7° m 10'44 minimum elong -1512 Sep 15 j 23:52 25°Ω02'21 -1505 Aug 31 j 22:11 9° m 06'53 morning rise evening set -1512 Dec 11 j 10:27 26°Ω54'01 max. Earth dist. -1505 Sep 15 j 10:50 9° m/39'12 31.33926 AU retrograde -1511 Feb 27 j 01:47 25°Ω32'15 1°42'13 opposition min. Earth dist. -1511 Feb 27 j 23:49 25°**Ω**30'45 29.31018 AU conjunction -1505 Sep 16 j 10:07 9° mp 41'22 1°50'55 -1511 May 19 j 07:45 24°**Ω**07'12 minimum elong -1505 Sep 16 j 10:06 9° Mp 41'22 1°50'55 direct -1511 Aug 18 j 05:37 26°**Ω**03'29 morning rise -1505 Oct 01 j 18:54 10° m 15'36 evening set retrograde -1505 Dec 27 j 08:02 12° m 07'37 -1511 Sep 02 j 21:26 26°**Ω**38'13 1°37'06 -1504 Mar 14 j 09:40 10° m 45'57 1°59'25 conjunction opposition -1511 Sep 02 j 21:26 -1504 Mar 15 j 07:07 10° Mp 44'30 29.34112 AU minimum elong 26°**Ω**38'13 1°37'07 min. Earth dist. -1511 Sep 01 j 21:58 max. Earth dist. 26°**Ω**36'02 31.31192 AU direct -1504 Jun 03 j 17:32 9° m 21'15 -1504 Sep 02 j 08:36 morning rise -1511 Sep 18 j 09:28 27°**Ω**12'40 evening set 11° m 17'20 retrograde -1511 Dec 13 j 19:51 29°**Ω**04'22 opposition -1510 Mar 01 j 13:00 27°**Ω**42'39 1°45'08 conjunction -1504 Sep 17 j 20:09 11° m 51'48 1°52'41 min. Earth dist. -1510 Mar 02 j 11:45 27°**Ω**41'06 29.31610 AU minimum elong -1504 Sep 17 j 20:08 11° **m** 51'48 1°52'42 direct -1510 May 21 j 19:17 26°**Ω**17'40 max. Earth dist. -1504 Sep 16 j 22:10 11° Mp 49'44 31.33986 AU 28°**Ω**13'56 -1504 Oct 03 j 04:17 12° m 25'59 evening set -1510 Aug 20 j 16:33 morning rise -1510 Sep 04 j 07:50 28°**Ω**46′25 31.31808 AU -1504 Dec 28 j 17:15 max. Earth dist. retrograde 14° Mp 18'03

•	omena of Neptune f		•				page 32
	ical year style is used: Th	-					
opposition	-1503 Mar 16 j 21:17	12° m 56'20		max. Earth dist.	-1497 Oct 02 j 21:1	~	31.34345 AU
min. Earth dist.	-1503 Mar 17 j 19:04	•	29.34119 AU	morning rise	-1497 Oct 18 j 19:5	•	
direct	-1503 Jun 06 j 05:52	11° m y31'38		retrograde	-1496 Jan 13 j 16:2	9 29° m , 29'10	
evening set	-1503 Sep 04 j 19:01	13° m 27'39		opposition	-1496 Apr 01 j 07:5	9 28° m ,07'19	2°08'53
max. Earth dist.	-1503 Sep 19 j 07:09	13° m 59'57	31.33957 AU	min. Earth dist.	-1496 Apr 02 j 01:0	9 28°Mg06'09	29.34577 AU
				direct	-1496 Jun 21 j 15:5	$7 26^{\circ} \text{My} 43'00$	
conjunction	-1503 Sep 20 j 05:52	14° My $02'05$	1°54'17	evening set	-1496 Sep 19 j 16:3	4 28° m 38'43	
minimum elong	-1503 Sep 20 j 05:52	14° My $02'05$	1°54'17	max. Earth dist.	-1496 Oct 04 j 06:0	7 29° m 11'15	31.34510 AU
morning rise	-1503 Oct 05 j 13:44	14° Mp 36'14					
retrograde	-1503 Dec 31 j 04:44	16° Mp $28'20$		conjunction	-1496 Oct 05 j 00:0	29° m 12'56	2°00'52
opposition	-1502 Mar 19 j 08:51	15° m 06'34	2°02'51	minimum elong	-1496 Oct 05 j 00:0	29° m 12'56	2°00'53
min. Earth dist.	-1502 Mar 20 j 05:29	15° m 05'10	29.34063 AU	morning rise	-1496 Oct 20 j 05:0	5 29° m 46'57	
direct	-1502 Jun 08 j 17:03	13° m)41'52			-1496 Oct 26 j 05:2	2 0° 亞	
evening set	-1502 Sep 07 j 05:08	15° m 37'50		retrograde	-1495 Jan 15 j 03:5	1° ≏ 39'42	
				opposition	-1495 Apr 03 j 19:5	7 0° ≙ 17'52	2°09'16
conjunction	-1502 Sep 22 j 15:34	16° Mp 12'13	1°55'44	min. Earth dist.	-1495 Apr 04 j 12:2	8 0° ≙ 16'45	29.34715 AU
minimum elong	-1502 Sep 22 j 15:34	16° Mp 12'13	1°55'44		-1495 Apr 14 j 21:5	9 30°R,M0	
max. Earth dist.	-1502 Sep 21 j 18:12	16° Mp 10'13	31.33877 AU	direct	-1495 Jun 24 j 01:5	9 28° my 53'38	
morning rise	-1502 Oct 07 j 22:48	16° Mp 46'20			-1495 Aug 29 j 01:2		
retrograde	-1501 Jan 02 j 14:09	18° m/38'29		evening set	-1495 Sep 22 j 02:1		
opposition	-1501 Mar 21 j 20:38	17° Mp 16'40	2°04'18	•			
min. Earth dist.	-1501 Mar 22 j 17:45		29.33991 AU	conjunction	-1495 Oct 07 j 09:3	2 1° ♀ 23'31	2°01'08
direct	-1501 Jun 11 j 04:52	15° m 51'59		minimum elong	-1495 Oct 07 j 09:3		2°01'07
evening set	-1501 Sep 09 j 15:16	17° m) 47'53		max. Earth dist.	-1495 Oct 06 j 17:0		31.34591 AU
max. Earth dist.	-1501 Sep 24 j 03:55		31.33831 AU	morning rise	-1495 Oct 22 j 14:0		
man. Darun dibe.	1001 5 0 p 2. j 05.00	10 .42010	51.55051110	retrograde	-1494 Jan 17 j 13:3		
conjunction	-1501 Sep 25 j 01:04	18° m) 22'13	1°57'00	opposition	-1494 Apr 06 j 08:1		2°09'26
minimum elong	-1501 Sep 25 j 01:04	18° m) 22'13	1°57'00	min. Earth dist.	-1494 Apr 07 j 00:5		29.34731 AU
morning rise	-1501 Oct 10 j 07:59	18° m 56'19	1 37 00	direct	-1494 Jun 26 j 13:2		2).54/51 AO
retrograde	-1500 Jan 05 j 01:23	20° m/48'32		evening set	-1494 Sep 24 j 12:1		
opposition	-1500 Mar 23 j 08:21	19° m) 26'40	2°05'35	evening set	-1494 Scp 24 j 12.1	2 3 ==0001	
min. Earth dist.	-1500 Mar 24 j 03:42	•	29.33977 AU	conjunction	-1494 Oct 09 j 18:4	9 3° ₽ 34'12	2001/12
direct	-1500 Wai 24 j 05.42 -1500 Jun 12 j 18:06	18° My 02'02	29.33911 AU	minimum elong	-1494 Oct 09 j 18:4		
evening set		19° m ₀ 57'52		max. Earth dist.	-1494 Oct 09 j 01:5		31.34544 AU
evening set	-1500 Sep 11 j 01:07	19 11/3/32			,		31.34344 AU
agniumation	1500 Can 26: 10:20	200 m 2211 1	1050107	morning rise	-1494 Oct 24 j 23:1		
conjunction	-1500 Sep 26 j 10:29	20° m/32'11 20° m/32'11	1°58'07	retrograde	-1493 Jan 20 j 01:3		2900127
minimum elong	-1500 Sep 26 j 10:28	~		opposition	-1493 Apr 08 j 20:3		
max. Earth dist.	-1500 Sep 25 j 14:19		31.33849 AU	min. Earth dist.	-1493 Apr 09 j 11:5		29.34611 AU
morning rise	-1500 Oct 11 j 16:55	21° Mp 06'15		direct	-1493 Jun 28 j 23:3		
retrograde	-1499 Jan 06 j 12:03	22° m 58'33	2007141	evening set	-1493 Sep 26 j 21:5	5° ≙ 10'46	
opposition	-1499 Mar 25 j 20:12	21° Mp 36'40			1402.0 / 12:04.2	50 0 44156	2001107
min. Earth dist.	-1499 Mar 26 j 15:44	•	29.34048 AU	conjunction	-1493 Oct 12 j 04:2		
direct	-1499 Jun 15 j 05:31	20° m 12'05		minimum elong	-1493 Oct 12 j 04:2		
evening set	-1499 Sep 13 j 11:02	22° Mp 07'53		max. Earth dist.	-1493 Oct 11 j 12:2		31.34341 AU
				morning rise	-1493 Oct 27 j 08:2		
conjunction	-1499 Sep 28 j 19:55	22° m/42'10		retrograde	-1492 Jan 22 j 11:5		200011.5
minimum elong	-1499 Sep 28 j 19:55	22° m/42'10		opposition	-1492 Apr 10 j 08:5		
max. Earth dist.	-1499 Sep 28 j 00:43	-	31.33967 AU	min. Earth dist.	-1492 Apr 11 j 01:0		29.34335 AU
morning rise	-1499 Oct 14 j 01:58	23° m 16'13		direct	-1492 Jun 30 j 11:1		
retrograde	-1498 Jan 08 j 21:05	25° m 08'36		evening set	-1492 Sep 28 j 07:3	5 7° ≙ 21'32	
opposition	-1498 Mar 28 j 07:53	23° m 46'44					
min. Earth dist.	-1498 Mar 29 j 01:54	-	29.34192 AU	conjunction	-1492 Oct 13 j 13:3		
direct	-1498 Jun 17 j 18:05	22° Mp 22'14		minimum elong	-1492 Oct 13 j 13:3		
evening set	-1498 Sep 15 j 20:59	24° Mp 18'00		max. Earth dist.	-1492 Oct 12 j 21:4		31.33996 AU
max. Earth dist.	-1498 Sep 30 j 10:14	24° m 50'29	31.34141 AU	morning rise	-1492 Oct 28 j 17:3		
_				retrograde	-1491 Jan 24 j 00:0		
conjunction	-1498 Oct 01 j 05:20	24° m 52'16		opposition	-1491 Apr 12 j 21:1		
minimum elong	-1498 Oct 01 j 05:19	24° m 52'16	1°59'51	min. Earth dist.	-1491 Apr 13 j 11:5		29.33905 AU
morning rise	-1498 Oct 16 j 11:03	25° Mp 26'18		direct	-1491 Jul 03 j 00:4		
retrograde	-1497 Jan 11 j 07:13	27° m 18'48		evening set	-1491 Sep 30 j 17:1	2 9° ₾ 32'12	
opposition	-1497 Mar 30 j 19:53	25° m 56'57	2°08'20				
min. Earth dist.	-1497 Mar 31 j 13:43	25° m 55'44	29.34393 AU	conjunction	-1491 Oct 15 j 22:5	6 10° ≏ 06'19	2°00'26
direct	-1497 Jun 20 j 04:17	24° My 32° 32°		minimum elong	-1491 Oct 15 j 22:5	5 10° ≏ 06′19	2°00'25
evening set	-1497 Sep 18 j 06:39	26° Mp $28'16$		max. Earth dist.	-1491 Oct 15 j 07:3	3 10° ჲ 04'53	31.33498 AU
				morning rise	-1491 Oct 31 j 02:4	1 10° ≙ 40'17	
conjunction	-1497 Oct 03 j 14:40	27° My $02'31$	2°00'27	retrograde	-1490 Jan 26 j 11:2	1 12° ≏ 33'32	
minimum elong	-1497 Oct 03 j 14:40	27° My $02'31$	2°00'26	opposition	-1490 Apr 15 j 09:3	9 11° ≏ 11'28	2°08'20

Planetary Phen	omena of Neptune f	from -1900	through -1398	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 33
Attention, astronom	nical year style is used: Th	e year -1490	in astronomical co	ounting style is the year	r 1491 BCE in historical c	ounting style.	
min. Earth dist.		11° ≏ 10′27	29.33358 AU	morning rise	-1484 Nov 14 j 17:17	25° ≙ 52'40	
direct	-1490 Jul 05 j 12:18	9° ≏ 47'26		retrograde	-1483 Feb 10 j 11:22	27° ≏ 46'39	
evening set	-1490 Oct 03 j 02:41	11° ≏ 42'44		opposition	-1483 May 01 j 01:11	26° ≏ 24'11	1°59'27
				min. Earth dist.	-1483 May 01 j 09:47		29.30059 AU
conjunction	-1490 Oct 18 j 08:10	12° Ω 16'51		direct	-1483 Jul 20 j 20:02	25° Ω 00'28	
minimum elong	-1490 Oct 18 j 08:10	12° Ω 16'51		evening set	-1483 Oct 17 j 19:07	26° £ 55'12	
max. Earth dist.	-1490 Oct 17 j 17:55		31.32921 AU		140231 01:22.12	270 0 20117	1050155
morning rise	-1490 Nov 02 j 11:43	12° £ 50'49		conjunction	-1483 Nov 01 j 23:13	27° £ 29'17	
retrograde	-1489 Jan 28 j 20:34	14° Ω 44'07	2007127	minimum elong max. Earth dist.	-1483 Nov 01 j 23:13	27° £ 29'17	31.29741 AU
opposition min. Earth dist.	-1489 Apr 17 j 22:04 -1489 Apr 18 j 11:30	13° Ω 21'58	29.32747 AU		-1483 Nov 01 j 15:15 -1483 Nov 17 j 02:21	27° 22 832 28° 2 03'18	31.29/41 AU
direct	-1489 Jul 08 j 01:36	13 ≗ 21 04 11° £ 57'56	29.32747 AU	morning rise retrograde	-1482 Feb 12 j 23:54	28 2 03 18 29° 2 57'25	
evening set	-1489 Oct 05 j 11:59	11° ⊆ 57'30		opposition	-1482 May 03 j 13:47	29° ⊆ 37'23 28° ⊆ 34'56	1°57'28
evening set	-1407 Oct 03 j 11.37	15 - 55 00		min. Earth dist.	-1482 May 03 j 20:41		29.29624 AU
conjunction	-1489 Oct 20 j 17:06	14° ≏ 27'13	1°59'04	direct	-1482 Jul 23 j 08:10	20 — 3 7 28 27° Ω 11'18	2).2)024 AO
minimum elong	-1489 Oct 20 j 17:06	14° ⊆ 27'13		evening set	-1482 Oct 20 j 04:23	29° ⊆ 05'59	
max. Earth dist.	-1489 Oct 20 j 03:03		31.32308 AU	evening set	1 102 000 20 1 0 1.23	27 -03 37	
morning rise	-1489 Nov 04 i 20:37	15° £ 01'11	31.32300110	conjunction	-1482 Nov 04 j 08:21	29° ≏ 40'04	1°48'59
retrograde	-1488 Jan 31 j 07:07	16° £ 54'34		minimum elong	-1482 Nov 04 j 08:21	29° Ω 40'04	
opposition	-1488 Apr 19 j 10:34	15° Ω 32'19	2°06'42	max. Earth dist.	-1482 Nov 04 j 00:57		31.29259 AU
min. Earth dist.	-1488 Apr 19 j 23:33		29.32156 AU		-1482 Nov 13 j 03:50	0°M	
direct	-1488 Jul 09 j 13:10	14° Ω 08'18		morning rise	-1482 Nov 19 j 11:31	0° ™ 14'06	
evening set	-1488 Oct 06 j 21:14	16° ♀ 03'23		retrograde	-1481 Feb 15 j 12:14	2°M08'22	
<i>8</i>				opposition	-1481 May 06 j 02:47	0°M45'51	1°55'19
conjunction	-1488 Oct 22 j 02:15	16° ≏ 37'28	1°58'07	min. Earth dist.	-1481 May 06 j 09:56	0°M45'22	29.29092 AU
minimum elong	-1488 Oct 22 j 02:15	16° ≏ 37'28	1°58'07		-1481 Jun 05 j 02:41	30° ₽ Ω	
max. Earth dist.	-1488 Oct 21 j 14:08		31.31740 AU	direct	-1481 Jul 25 j 18:51	29° Ω 22'16	
morning rise	-1488 Nov 06 j 05:30	17° Ω 11'26			-1481 Sep 12 j 08:37	0° M	
retrograde	-1487 Feb 01 j 16:13	19° ≏ 04'54		evening set	-1481 Oct 22 j 13:31	1°M16'54	
opposition	-1487 Apr 21 j 22:52	17° ≏ 42'35	2°05'37				
min. Earth dist.	-1487 Apr 22 j 10:47	17° ≏ 41'47	29.31614 AU	conjunction	-1481 Nov 06 j 17:29	1°M50'59	1°46'53
direct	-1487 Jul 12 j 01:55	16° ≏ 18'35		minimum elong	-1481 Nov 06 j 17:30	1°M50'59	1°46'52
evening set	-1487 Oct 09 j 06:34	18° ≏ 13'36		max. Earth dist.	-1481 Nov 06 j 11:15	1°M50'24	31.28669 AU
				morning rise	-1481 Nov 21 j 20:40	2°M25'02	
conjunction	-1487 Oct 24 j 11:13	18° ≏ 47'40	1°57'01	retrograde	-1480 Feb 17 j 22:48	4°M19′26	
minimum elong	-1487 Oct 24 j 11:13	18° ≏ 47'40		opposition	-1480 May 07 j 15:39	2°M56'52	1°53'00
max. Earth dist.	-1487 Oct 23 j 23:05	18° ≏ 46'31	31.31247 AU	min. Earth dist.	-1480 May 07 j 21:22	2°M56'29	29.28418 AU
morning rise	-1487 Nov 08 j 14:32	19° ≏ 21'38		direct	-1480 Jul 27 j 07:54	1°M33'20	
retrograde	-1486 Feb 04 j 03:13	21° ≏ 15'13		evening set	-1480 Oct 23 j 22:52	3°M27'53	
opposition	-1486 Apr 24 j 11:19	19° ≏ 52'50					
min. Earth dist.	-1486 Apr 24 j 21:56		29.31164 AU	conjunction	-1480 Nov 08 j 02:41	4°M01'59	1°44'39
direct	-1486 Jul 14 j 12:09	18° ≏ 28'54		minimum elong	-1480 Nov 08 j 02:41	4°M01'59	
evening set	-1486 Oct 11 j 15:38	20° ≏ 23'49		max. Earth dist.	-1480 Nov 07 j 20:08		31.27927 AU
		_		morning rise	-1480 Nov 23 j 06:04	4°M36'04	
conjunction	-1486 Oct 26 j 20:14	20° £ 57'53		retrograde	-1479 Feb 19 j 10:41	6°M30'35	
minimum elong	-1486 Oct 26 j 20:14	20° £ 57'53		opposition	-1479 May 10 j 04:27	5°M07'57	
max. Earth dist.	-1486 Oct 26 j 10:11		31.30832 AU	min. Earth dist.	-1479 May 10 j 10:04		29.27607 AU
morning rise	-1486 Nov 10 j 23:19	21° Ω 31'52		direct	-1479 Jul 29 j 19:28	3°M44'27	
retrograde	-1485 Feb 06 j 12:25	23° £ 25'34	2002/52	evening set	-1479 Oct 26 j 08:02	5°M38'55	
opposition	-1485 Apr 26 j 23:57	22° £ 03'09		aaniumatian	1470 Nov. 10 : 12:00	60M 12102	19/2/15
min. Earth dist.	-1485 Apr 27 j 10:05		29.30773 AU	conjunction	-1479 Nov 10 j 12:00 -1479 Nov 10 j 12:00	6°M13'02	
direct	-1485 Jul 16 j 23:26	20° £ 39'17 22° £ 34'08		minimum elong max. Earth dist.	-1479 Nov 10 j 12.00 -1479 Nov 10 j 07:04	6°M13'02	
evening set	-1485 Oct 14 j 00:51	22 = 34 08		morning rise	-1479 Nov 10 j 07.04 -1479 Nov 25 j 15:19	6°M47'07	31.27050 AU
aaniumatian	1495 Oat 20:05:00	220 0 00112	1054110	-	3		
conjunction	-1485 Oct 29 j 05:09 -1485 Oct 29 j 05:09	23° Ω 08'12		retrograde	-1478 Feb 21 j 20:47	8°M41'45 7°M19'02	1047154
minimum elong max. Earth dist.	-1485 Oct 29 j 05:09 -1485 Oct 28 j 19:11	23° Ω 08'12	31.30478 AU	opposition min. Earth dist.	-1478 May 12 j 17:23 -1478 May 12 j 22:13		29.26655 AU
morning rise	-1485 Nov 13 j 08:21	23° Ω 42'12	31.304/0 AU	direct	-1478 Aug 01 j 08:45	5°M55'33	27.20033 AU
retrograde	-1484 Feb 09 j 00:31	25° £ 42°12 25° £ 36′02		evening set	-1478 Oct 28 j 17:10	7°M49'54	
opposition	-1484 Apr 28 j 12:26	25° £ 36°02 24° £ 13'36	2°01'16	evening set	-17/0 OCI 20 J 1/.10	/ 1164734	
min. Earth dist.	-1484 Apr 28 j 20:46		29.30428 AU	conjunction	-1478 Nov 12 j 20:57	8°M24'01	1°39'43
direct	-1484 Jul 18 j 09:08	24 ≗ 13 02 22° £ 49'47	27.30420 AU	minimum elong	-1478 Nov 12 j 20:57	8°M24'01	1°39'43
evening set	-1484 Oct 15 j 09:53	22 24 947 24° 2 44'35		max. Earth dist.	-1478 Nov 12 j 20.37		31.26065 AU
oronning sec	1101 000 10 100.00	2. —47.33		morning rise	-1478 Nov 28 j 00:35	8°M58'09	51.20003 AU
conjunction	-1484 Oct 30 j 14:11	25° £ 18'40	1°52'41	retrograde	-1477 Feb 24 j 08:00	10°M52'52	
minimum elong	-1484 Oct 30 j 14:11	25° ⊆ 18'40		opposition	-1477 May 15 j 06:21	9°M30'03	1°45'07
max. Earth dist.	-1484 Oct 30 j 05:40		31.30128 AU	min. Earth dist.	-1477 May 15 j 10:05		29.25638 AU
u.u. u.u.	2.2. Oct 20 j 00.10		1.1.20110	Albi.	10 j 10.00		

•	omena of Neptune f		•				page 34
	nical year style is used: Th	-	in astronomical co				
direct	-1477 Aug 03 j 19:33	8°M06'35		conjunction	-1471 Nov 27 j 12:30	23°M40'53	1°18'11
evening set	-1477 Oct 31 j 02:08	10° ™ 00'49		minimum elong	-1471 Nov 27 j 12:31	23°M40'53	1°18'09
				max. Earth dist.	-1471 Nov 27 j 14:52	23°M41'07	31.20280 AU
conjunction	-1477 Nov 15 j 06:06	10°M34'57	1°37'03	morning rise	-1471 Dec 12 j 17:37	24°M15'13	
minimum elong	-1477 Nov 15 j 06:06	10°M34'57	1°37'01	retrograde	-1470 Mar 11 j 17:48	26°M10'49	
max. Earth dist.	-1477 Nov 15 j 02:56	10°M34'39	31.25032 AU	opposition	-1470 May 31 j 00:42	24°M47'33	1°21'38
morning rise	-1477 Nov 30 j 09:44	11°M09'06		min. Earth dist.	-1470 May 30 j 21:14	24°M47'47	29.20014 AU
retrograde	-1476 Feb 26 j 16:58	13°M03'56		direct	-1470 Aug 19 j 00:46	23°M24'22	
opposition	-1476 May 16 j 19:14	11°M41'00	1°42'11	evening set	-1470 Nov 14 j 17:10	25°M18'05	
min. Earth dist.	-1476 May 16 j 22:31	11°M40'47	29.24605 AU				
direct	-1476 Aug 05 j 07:18	10°M17'32		conjunction	-1470 Nov 29 j 21:47	25°M52'21	1°14'36
evening set	-1476 Nov 01 j 11:09	12°M11'40		minimum elong	-1470 Nov 29 j 21:48	25°M52'21	1°14'36
				max. Earth dist.	-1470 Nov 30 j 02:06	25°M52'45	31.19625 AU
conjunction	-1476 Nov 16 j 15:02	12°M45'49	1°34'14	morning rise	-1470 Dec 15 j 03:01	26°M26'42	
minimum elong	-1476 Nov 16 j 15:03	12°M45'49	1°34'13	retrograde	-1469 Mar 14 j 04:55	28°M22'27	
max. Earth dist.	-1476 Nov 16 j 12:09	12°M45'32	31.24031 AU	opposition	-1469 Jun 02 j 13:51	26°M59'08	1°17'44
morning rise	-1476 Dec 01 j 19:00	13° M 19'59		min. Earth dist.	-1469 Jun 02 j 09:29	26°M59'26	29.19318 AU
	-1475 Jan 29 j 04:36	15°M		direct	-1469 Aug 21 j 13:39	25°M36'01	
retrograde	-1475 Feb 28 j 04:56	15°M14'55		evening set	-1469 Nov 17 j 02:33	27°M29'40	
	-1475 Mar 31 j 02:00	15°RM					
opposition	-1475 May 19 j 08:00	13°M51'54	1°39'07	conjunction	-1469 Dec 02 j 07:11	28°ML03'57	1°10'55
min. Earth dist.	-1475 May 19 j 09:17	13°M51'49	29.23634 AU	minimum elong	-1469 Dec 02 j 07:11	28°ML03'57	1°10'53
direct	-1475 Aug 07 j 17:23	12°M28'27		max. Earth dist.	-1469 Dec 02 j 11:13	28°M04'20	31.18898 AU
evening set	-1475 Nov 03 j 20:05	14°M22'29		morning rise	-1469 Dec 17 j 12:53	28°M38'21	
					-1468 Jan 29 j 14:22	0° ∡ ¹	
conjunction	-1475 Nov 19 j 00:04	14°M56'39	1°31'17	retrograde	-1468 Mar 15 j 17:16	0° ∡ ³34'14	
minimum elong	-1475 Nov 19 j 00:04	14°M56'39	1°31'15		-1468 May 02 j 16:49	30°RML	
max. Earth dist.	-1475 Nov 18 j 22:46	14°M56'31	31.23098 AU	opposition	-1468 Jun 04 j 02:55	29°M10'52	1°13'44
	-1475 Nov 20 j 11:30	15°M		min. Earth dist.	-1468 Jun 03 j 21:41	29°ML11'13	29.18543 AU
morning rise	-1475 Dec 04 j 04:06	15°M30'51		direct	-1468 Aug 23 j 00:15	27° M 47'47	
retrograde	-1474 Mar 02 j 15:29	17°M25'54		evening set	-1468 Nov 18 j 11:50	29°M41'22	
opposition	-1474 May 21 j 20:56	16°M02'49	1°35'54		-1468 Nov 26 j 19:13	0° ∡ ¹	
min. Earth dist.	-1474 May 21 j 22:01	16°M02'44	29.22752 AU		v		
	-1474 Jul 04 j 16:23	15°RM		conjunction	-1468 Dec 03 j 16:48	0° ∡ 15'41	1°07'07
direct	-1474 Aug 10 j 04:16	14°M39'23		minimum elong	-1468 Dec 03 j 16:48	0° ∡ 15'41	1°07'06
	-1474 Sep 14 j 14:35	15°M		max. Earth dist.	-1468 Dec 03 j 22:18	0° ∡ 16'12	31.18056 AU
evening set	-1474 Nov 06 j 05:04	16°M33'21		morning rise	-1468 Dec 18 j 22:41	0° ∡ ¹50'07	
•	·			retrograde	-1467 Mar 18 j 03:21	2° ∡ ¹46′07	
conjunction	-1474 Nov 21 j 09:07	17°M07'31	1°28'12	opposition	-1467 Jun 06 j 16:08	1° ∡ 22'41	1°09'37
minimum elong	-1474 Nov 21 j 09:07	17° M 07'31		min. Earth dist.	-1467 Jun 06 j 10:49	1° х 23′03	29.17627 AU
max. Earth dist.	-1474 Nov 21 j 08:57	17° M 07'30	31.22286 AU		-1467 Aug 20 j 19:57	30°RM	
morning rise	-1474 Dec 06 j 13:23	17° M 41'44		direct	-1467 Aug 25 j 12:42	29°M59'38	
retrograde	-1473 Mar 05 j 04:12	19°M36'56			-1467 Aug 30 j 03:59	0° ∡ ¹	
opposition	-1473 May 24 j 09:48	18°M13'47	1°32'32	evening set	-1467 Nov 20 j 21:13	1° ≯ 753′08	
min. Earth dist.	-1473 May 24 j 08:38		29.21981 AU	3			
direct	-1473 Aug 12 j 15:27	16°M50'24		conjunction	-1467 Dec 06 j 02:16	2° × 127'28	1°03'13
evening set	-1473 Nov 08 j 13:59	18° M 44'18		minimum elong	-1467 Dec 06 j 02:17	2° ∡ 27'28	
8				max. Earth dist.	-1467 Dec 06 j 07:41		31.17086 AU
conjunction	-1473 Nov 23 j 18:06	19° M 18'29	1°24'59	morning rise	-1467 Dec 21 j 08:34	3° ∡ *01'56	
minimum elong	-1473 Nov 23 j 18:07	19°M18'29		retrograde	-1466 Mar 20 j 16:12	4° ₹ 158'04	
max. Earth dist.	-1473 Nov 23 j 18:49		31.21563 AU	opposition	-1466 Jun 09 j 05:17	3° х 34′33	1°05'25
morning rise	-1473 Dec 08 j 22:40	19°M52'44		min. Earth dist.	-1466 Jun 08 j 22:27		29.16587 AU
retrograde	-1472 Mar 06 j 16:42	21°M48'05		direct	-1466 Aug 27 j 23:44	2° ҂ 11'30	25.1000, 110
opposition	-1472 May 25 j 22:50	20°M24'53	1°29'02	evening set	-1466 Nov 23 j 06:35	4° ₹ 1130	
min. Earth dist.	-1472 May 25 j 21:32		29.21298 AU	evening sec	1 100 1101 25 j 00.55	1 7 0133	
direct	-1472 Aug 14 j 00:50	19°M01'34	27.21270110	conjunction	-1466 Dec 08 j 11:55	4° ∡ °39'16	0°59'14
evening set	-1472 Nov 09 j 22:59	20°M55'24		minimum elong	-1466 Dec 08 j 11:55	4° × ⁷ 39'16	
	1.0. 0/ j 22 .0/			max. Earth dist.	-1466 Dec 08 j 18:19		31.15989 AU
conjunction	-1472 Nov 25 j 03:20	21°M29'36	1°21'39	morning rise	-1466 Dec 23 j 18:31	5° ₹ 13'46	31.13707 AU
minimum elong	-1472 Nov 25 j 03:20	21°M29'36		retrograde	-1465 Mar 23 j 02:48	7° ₹ 10'00	
max. Earth dist.	-1472 Nov 25 j 05:41		31.20915 AU	opposition	-1465 Jun 11 j 18:35	5° ₹ 16'00	1°01'06
morning rise	-1472 Dec 10 j 08:03	22°M03'53	51.20)15 AU	min. Earth dist.	-1465 Jun 11 j 12:01	5° х 46′50	
retrograde	-1471 Mar 09 j 04:09	22 IILUS 33 23°M59'21		direct	-1465 Aug 30 j 10:48	3 x ·46 30 4° x 23 '20	27.13443 AU
opposition	-1471 May 28 j 11:35	23°11639'21 22°11639'21	1025122	evening set	-1465 Nov 25 j 15:50	6° ₹ 16'39	
min. Earth dist.	-1471 May 28 j 08:32		29.20651 AU	evening set	1705 NOV 25 J 15.30	0 7 1039	
direct	-1471 May 26 j 08.32 -1471 Aug 16 j 13:37	21°M12'53	27.20031 AU	conjunction	-1465 Dec 10 j 21:27	6° ₹ 51'01	0°55'10
evening set	-1471 Nov 12 j 08:11	21 IIC12 33 23°M06'39		minimum elong	-1465 Dec 10 j 21:27	6° ₹ ′51′01	0°55'08
Cronning oct	17/11/0V 12 J UO.11	25 HGOO 37		minimum ciong	1-03 Dec 10 j 21.2/	0 > 2101	0 22 00

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 35							
Attention, astronom	nical year style is used: Th	e year -1465	in astronomical co	unting style is the year	1466 BCE in historical of	counting style.	
max. Earth dist.	-1465 Dec 11 j 04:48	6° ∡ 751'43	31.14831 AU	conjunction	-1458 Dec 25 j 17:37	22° ∡ 14'54	0°24'42
morning rise	-1465 Dec 26 j 04:27	7° ∡ ¹25'34		minimum elong	-1458 Dec 25 j 17:37	22° ∡ 14'54	0°24'41
retrograde	-1464 Mar 24 j 15:11	9° ∡ 21'53		max. Earth dist.	-1458 Dec 26 j 07:27	22° х 16′12	31.08235 AU
opposition	-1464 Jun 13 j 07:38	7° ∡ ′58′10	0°56'43	morning rise	-1457 Jan 10 j 03:25	22° х 49'43	
min. Earth dist.	-1464 Jun 12 j 23:13	7° ∡ 58'44	29.14261 AU	retrograde	-1457 Apr 10 j 08:13	24° ∡ ¹46'57	
direct	-1464 Aug 31 j 22:09	6° ∡ ³35'06		opposition	-1457 Jun 30 j 03:11	23° ∡ *22'52	0°23'55
evening set	-1464 Nov 27 j 01:16	8° ≯ 28'20		min. Earth dist.	-1457 Jun 29 j 12:13		29.07864 AU
<i>8</i>	,			direct	-1457 Sep 17 j 05:20	22° х 00′03	
conjunction	-1464 Dec 12 j 07:01	9° × 02'44	0°51'01	evening set	-1457 Dec 12 j 20:00	23° х 53'01	
minimum elong	-1464 Dec 12 j 07:01	9° × 02'44	0°51'00	0. tg			
max. Earth dist.	-1464 Dec 12 j 14:52		31.13646 AU	conjunction	-1457 Dec 28 j 03:48	24° × ⁷ 27'38	0°20'08
morning rise	-1464 Dec 27 j 14:26	9° × ⁷ 37'18	31.13010710	minimum elong	-1457 Dec 28 j 03:48	24° × ⁷ 27'38	0°20'06
retrograde	-1463 Mar 27 j 03:29	11° ∡ 33'44		max. Earth dist.	-1457 Dec 28 j 18:29		31.07445 AU
opposition	-1463 Jun 15 j 20:41	10° ₹ '09'55	0°52'14	morning rise	-1456 Jan 12 j 14:01	25°× 7 02'31	31.07443710
min. Earth dist.	-1463 Jun 15 j 12:20		29.13103 AU	retrograde	-1456 Apr 11 j 18:53	26° 🖈 59'53	
direct	-1463 Sep 03 j 07:37	8° √ 46'51	29.13103 AO	opposition	-1456 Jul 01 j 16:26	25° 🖈 35'46	0°19'00
evening set	-1463 Nov 29 j 10:34	10° × ⁷ 40'01		min. Earth dist.	-1456 Jul 01 j 01:57		29.07040 AU
evening set	-1403 NOV 29 J 10.34	10 🗴 4001				23 × 30 40 24° × 13'00	29.07040 AU
· · · · · · · · · · · ·	1462 Dec 14: 16:42	110.71406	0946147	direct	-1456 Sep 18 j 16:07		
conjunction	-1463 Dec 14 j 16:42	11° 🗷 14'26	0°46'47	evening set	-1456 Dec 14 j 06:02	26° ₹ 05'56	
minimum elong	-1463 Dec 14 j 16:42	11° √ 14'26	0°46'45		1456 D 20:14.11	260 740125	001.512.2
max. Earth dist.	-1463 Dec 15 j 02:19		31.12527 AU	conjunction	-1456 Dec 29 j 14:11	26° х 40′35	0°15'32
morning rise	-1463 Dec 30 j 00:22	11° ∡ ′49′02		minimum elong	-1456 Dec 29 j 14:11	26° ∡ 740'35	0°15'31
retrograde	-1462 Mar 29 j 15:37	13° ∡ ¹45'35		behind sun begin	-1456 Dec 29 j 12:16	26° ∡ 740′25	
opposition	-1462 Jun 18 j 09:44	12° ₹ 21'41	0°47'41	behind sun end	-1456 Dec 29 j 16:07	26° ≯ 40'46	
min. Earth dist.	-1462 Jun 17 j 23:25		29.12020 AU	max. Earth dist.	-1456 Dec 30 j 05:31		31.06578 AU
direct	-1462 Sep 05 j 20:24	10° ∡ ′58′37		morning rise	-1455 Jan 14 j 00:45	27° ҂ 15'30	
evening set	-1462 Dec 01 j 19:57	12° ∡ ′51'44		retrograde	-1455 Apr 14 j 07:31	29° ₹ 13'00	
				opposition	-1455 Jul 04 j 05:26	27° ∡ ¹48'51	0°14'04
conjunction	-1462 Dec 17 j 02:10	13° ∡ ¹26′11	0°42'30	min. Earth dist.	-1455 Jul 03 j 13:32	27° ∡ ¹49'56	29.06111 AU
minimum elong	-1462 Dec 17 j 02:11	13° ∡ ¹26′11	0°42'29	direct	-1455 Sep 21 j 03:02	26° ∡ ¹26′05	
max. Earth dist.	-1462 Dec 17 j 11:55	13° ∡ °27′06	31.11499 AU	evening set	-1455 Dec 16 j 16:15	28° ∡ 19′00	
morning rise	-1461 Jan 01 j 10:23	14° ₰ 00'50					
retrograde	-1461 Apr 01 j 05:56	15° ∡ 57'30		conjunction	-1454 Jan 01 j 00:37	28° ₹ 53'41	0°10'55
opposition	-1461 Jun 20 j 22:54	14° ∡ ³33'32	0°43'03	minimum elong	-1454 Jan 01 j 00:37	28° х 53′41	0°10'53
min. Earth dist.	-1461 Jun 20 j 11:59	14° ∡ °34'16	29.11052 AU	behind sun begin	-1455 Dec 31 j 19:42	28° ₹ 53'14	
direct	-1461 Sep 08 j 07:08	13° ∡ 10′30		behind sun end	-1454 Jan 01 j 05:32	28° ₹ 54'08	
evening set	-1461 Dec 04 j 05:20	15° ∡ 03'34		max. Earth dist.	-1454 Jan 01 j 15:50	28° ₹ ¹55'07	31.05583 AU
•	·			morning rise	-1454 Jan 16 j 11:43	29° ҂ ¹28'37	
conjunction	-1461 Dec 19 j 12:01	15° ∡ ³38′03	0°38'08	C	-1454 Jan 31 j 02:58	0° ට	
minimum elong	-1461 Dec 19 j 12:01	15° ∡ ³38′03	0°38'06	retrograde	-1454 Apr 16 j 20:21	1° る 26'15	
max. Earth dist.	-1461 Dec 19 j 23:54		31.10582 AU	opposition	-1454 Jul 06 j 18:47	0° ප 02'01	0°09'06
morning rise	-1460 Jan 03 j 20:29	16° ∡ 12'45		min. Earth dist.	-1454 Jul 06 j 03:28		29.05058 AU
retrograde	-1460 Apr 02 j 17:35	18° ₹ 09'33			-1454 Jul 08 j 00:25	30°R ✓	
opposition	-1460 Jun 22 j 11:50	16° ₹ 45'32	0°38'21	direct	-1454 Sep 23 j 12:14	28° × 39'15	
min. Earth dist.	-1460 Jun 21 j 23:45		29.10176 AU	uncet	-1454 Dec 04 j 01:20	0°る	
direct	-1460 Sep 09 j 19:26	15° ₹ 22'33	27.10170110	evening set	-1454 Dec 19 j 02:17	0° る 32'07	
evening set	-1460 Dec 05 j 14:55	17° ₹ 15'35		evening sec	1131 Dec 19 j 02:17	0 03207	
e venning see	1100 Bec 05 j 11.55	17 7 13 33		conjunction	-1453 Jan 03 j 11:10	1° ට 06'50	0°06'18
conjunction	-1460 Dec 20 j 21:45	17° ∡ 750'06	0°33'43	minimum elong	-1453 Jan 03 j 11:10	1°る06'50	
minimum elong	-1460 Dec 20 j 21:45	17° ∡ 750'06	0°33'42	behind sun begin	-1453 Jan 03 j 05:05	1° ろ 06'17	0 00 17
max. Earth dist.	-1460 Dec 21 j 09:37		31.09757 AU	behind sun end	-1453 Jan 03 j 17:15	1°る07'23	
morning rise	-1459 Jan 05 j 06:47	17 x 31 14 18° x 24'51	31.09/3/ AU	max. Earth dist.	-1453 Jan 04 j 03:36		31.04471 AU
retrograde	-1459 Apr 05 j 06:54	20° ₹ 21'47		morning rise	-1453 Jan 18 j 22:35	1 308 23 1° 3 41'49	31.044/1 AU
•	-1459 Jun 24 j 11:45		20.00205 ATT	_	-		
min. Earth dist.	_		29.09385 AU	retrograde	-1453 Apr 19 j 09:05	3° る 39'31	0004100
opposition	-1459 Jun 25 j 00:54	18° ₹ 57'45	0°33'36	opposition	-1453 Jul 09 j 07:54	2°る15'12	
direct	-1459 Sep 12 j 05:58	17° 🗷 34'49		min. Earth dist.	-1453 Jul 08 j 15:19		29.03879 AU
evening set	-1459 Dec 08 j 00:23	19° ∡ ¹27'49		direct	-1453 Sep 26 j 01:23	0° る 52'24	
	1450 5	200 = = = = =	0000111	evening set	-1453 Dec 21 j 12:36	2° る 45'13	
conjunction	-1459 Dec 23 j 07:37	20° ₹ 02'23	0°29'14			-	
minimum elong	-1459 Dec 23 j 07:37	20° ₹ 02'23	0°29'12	conjunction	-1452 Jan 05 j 21:39	3° る 19'57	
max. Earth dist.	-1459 Dec 23 j 21:16		31.08982 AU	minimum elong	-1452 Jan 05 j 21:41	3° る 19'57	0°01'36
morning rise	-1458 Jan 07 j 16:55	20° ∡ ³37′09		behind sun begin	-1452 Jan 05 j 15:15	3° る 19'22	
retrograde	-1458 Apr 07 j 18:06	22° ∡ ³34'15		behind sun end	-1452 Jan 06 j 04:06	3° ප 20'32	
opposition	-1458 Jun 27 j 14:06	21° ≯ 10′11	0°28'46	max. Earth dist.	-1452 Jan 06 j 13:33	3° る 21′27	31.03251 AU
min. Earth dist.	-1458 Jun 27 j 00:38	21° х 11'06	29.08621 AU	morning rise	-1452 Jan 21 j 09:44	3° ⋜ 54'58	
direct	-1458 Sep 14 j 18:26	19° ∡ ′47'19		retrograde	-1452 Apr 20 j 23:29	5° る 52'45	
evening set	-1458 Dec 10 j 10:09	21° х 40′18		desc. node	-1452 May 09 j 18:42	5° ರ 47'07	
	-				-		

					st AG 18-Feb-2025		page 36
		-			1453 BCE in historical c		
opposition	-1452 Jul 10 j 20:53	4°る28'19		opposition	-1446 Jul 25 j 02:16	17° る 46'36	-0°30'27
min. Earth dist.	-1452 Jul 10 j 04:25		29.02636 AU	direct	-1446 Oct 11 j 09:42	16° る 23'40	
direct evening set	-1452 Sep 27 j 11:43 -1452 Dec 22 j 22:45	3°る05'28 4°る58'14		evening set	-1445 Jan 05 j 13:18	18° る 16'18	
	1451 1 07:00 21	50-722100	0002100	conjunction	-1445 Jan 21 j 00:56	18°る51'15	
conjunction	-1451 Jan 07 j 08:21	5° る 33'00		minimum elong max. Earth dist.	-1445 Jan 21 j 00:56	18° る 51'15	
minimum elong	-1451 Jan 07 j 08:21 -1451 Jan 07 j 01:57	5°る33'00 5°る32'25	0°03'09	max. Earth dist.	-1445 Jan 21 j 22:13 -1445 Feb 05 j 16:06	18° ろ 33'16	30.96035 AU
behind sun begin behind sun end	-1451 Jan 07 j 14:45	5° る 33'35		retrograde	-1445 May 07 j 16:41	19 3 2631 21° 3 24'57	
max. Earth dist.	-1451 Jan 08 j 01:56		31.01988 AU	opposition	-1445 Jul 27 j 15:14	20°る00'04	-0°35'17
morning rise	-1451 Jan 22 j 20:41	6° そ 08'03	31.01700710	min. Earth dist.	-1445 Jul 26 j 18:24		28.95708 AU
retrograde	-1451 Apr 23 j 11:07	8° る 05'54		direct	-1445 Oct 13 j 18:52	18° る 37'09	20.50700110
opposition	-1451 Jul 13 j 09:52	6° පි 41'22	-0°05'49	evening set	-1444 Jan 08 j 00:08	20° る 29'50	
min. Earth dist.	-1451 Jul 12 j 16:32	6° る 42'33	29.01372 AU	C	,		
direct	-1451 Sep 30 j 00:06	5° ට 18'28		conjunction	-1444 Jan 23 j 12:19	21° る 04'48	-0°35'13
evening set	-1451 Dec 25 j 08:58	7° る 11'10		minimum elong	-1444 Jan 23 j 12:19	21° る 04'48	0°35'15
				max. Earth dist.	-1444 Jan 24 j 10:50	21° る 06'56	30.95316 AU
conjunction	-1450 Jan 09 j 18:45	7° る 45'57	-0°07'46	morning rise	-1444 Feb 08 j 03:46	21° る 40'07	
minimum elong	-1450 Jan 09 j 18:45	7° る 45'57	0°07'49	retrograde	-1444 May 09 j 05:32	23° る 38'38	
behind sun begin	-1450 Jan 09 j 12:57	7° る 45'26		min. Earth dist.	-1444 Jul 28 j 05:56		28.94982 AU
behind sun end	-1450 Jan 10 j 00:33	7° る 46'29		opposition	-1444 Jul 29 j 03:51	22° る 13'45	-0°40'04
max. Earth dist.	-1450 Jan 10 j 12:11		31.00749 AU	direct	-1444 Oct 15 j 07:00	20° る 50'52	
morning rise	-1450 Jan 25 j 07:40	8° る 21'03		evening set	-1443 Jan 09 j 11:18	22° る 43'35	
retrograde	-1450 Apr 26 j 01:20	10°る18'58	0010145		1440 7 04:00.00	222	0020140
opposition	-1450 Jul 15 j 22:53	8° る 54'19		conjunction	-1443 Jan 24 j 23:39	23° る 18'35	
min. Earth dist.	-1450 Jul 15 j 04:41	8°555'34 7° 5 31'23	29.00176 AU	minimum elong max. Earth dist.	-1443 Jan 24 j 23:39	23° る 18'35	0°39'40 30.94568 AU
direct evening set	-1450 Oct 02 j 11:24 -1450 Dec 27 j 19:14	9° る 24'03		max. Earth dist.	-1443 Jan 25 j 21:24 -1443 Feb 09 j 15:42	23° る 2038 23° る 53'55	30.94308 AU
evening set	-1430 Dec 27 J 19.14	9 02403		retrograde	-1443 May 11 j 20:07	25° る 52'34	
conjunction	-1449 Jan 12 j 05:29	9° る 58'53	-0°12'24	opposition	-1443 Jul 31 j 16:46	23 3 32 34 24° る 27'40	-0°44'48
minimum elong	-1449 Jan 12 j 05:29	9° る 58'52		min. Earth dist.	-1443 Jul 30 j 19:16		28.94216 AU
behind sun begin	-1449 Jan 12 j 01:13	9° る 58'29	0 12 23	direct	-1443 Oct 17 j 16:31	23°る04'47	20.9 1210 110
behind sun end	-1449 Jan 12 j 09:45	9° ප 59'16		evening set	-1442 Jan 11 j 22:18	24° る 57'31	
max. Earth dist.	-1449 Jan 13 j 00:33	10° ට 00'41	30.99588 AU	C	· ·		
morning rise	-1449 Jan 27 j 18:44	10° පි 34'00		conjunction	-1442 Jan 27 j 11:12	25° る 32'34	-0°44'03
retrograde	-1449 Apr 28 j 13:33	12° る 32'00		minimum elong	-1442 Jan 27 j 11:11	25° る 32'34	0°44'05
opposition	-1449 Jul 18 j 11:47	11° ට 07'16	-0°15'44	max. Earth dist.	-1442 Jan 28 j 10:13	25° る 34'44	30.93753 AU
min. Earth dist.	-1449 Jul 17 j 17:17		28.99073 AU	morning rise	-1442 Feb 12 j 03:30	26° る 07'56	
direct	-1449 Oct 05 j 00:16	9° ⋜ 44'18		retrograde	-1442 May 14 j 08:43	28° පි 06'41	
evening set	-1449 Dec 30 j 05:37	11° る 36'57		min. Earth dist.	-1442 Aug 02 j 07:44		28.93352 AU
		_		opposition	-1442 Aug 03 j 05:39	26° ප් 41'44	-0°49'28
conjunction	-1448 Jan 14 j 16:13	12° 云 11'48		direct	-1442 Oct 20 j 04:22	25° る 18'51	
minimum elong	-1448 Jan 14 j 16:13	12°る11'48		evening set	-1441 Jan 14 j 09:41	27° る 11'37	
max. Earth dist.	-1448 Jan 15 j 11:30		30.98548 AU		1441 7 20 : 22 52	270746140	00.4010.2
morning rise	-1448 Jan 30 j 06:00	12°る46'57 14°る45'02		conjunction	-1441 Jan 29 j 22:52 -1441 Jan 29 j 22:51	27°る46'40 27°る46'40	
retrograde min. Earth dist.	-1448 Apr 30 j 03:34 -1448 Jul 19 j 04:33		28.98092 AU	minimum elong max. Earth dist.	-1441 Jan 29 j 22:51 -1441 Jan 30 j 20:59		30.92843 AU
opposition	-1448 Jul 20 j 00:36	13° る 21'37		morning rise	-1441 Jan 30 J 20:39	27 84840 28° る 22'05	30.92643 AU
direct	-1448 Oct 06 j 11:37	13 3 2013	-0 20 40	morning risc	-1441 Apr 10 j 21:24	28 3 22 03 0° ≈	
evening set	-1448 Dec 31 j 16:05	13°る49'55		retrograde	-1441 May 17 j 00:05	0°≈20'54	
evening sec	1110 Dec 31 j 10.03	15 0 17 55		retrograde	-1441 Jun 22 j 20:13	30°Ŗ ට	
conjunction	-1447 Jan 16 j 03:01	14° පි 24'47	-0°21'36	opposition	-1441 Aug 05 j 18:25	28° る 55'54	-0°54'03
minimum elong	-1447 Jan 16 j 03:01	14° ට 24'47		min. Earth dist.	-1441 Aug 04 j 20:27		28.92401 AU
max. Earth dist.	-1447 Jan 16 j 23:13	14° පි 26'42	30.97610 AU	direct	-1441 Oct 22 j 15:39	27° る 32'59	
morning rise	-1447 Jan 31 j 17:12	14° る 59'59		evening set	-1440 Jan 16 j 21:01	29° る 25'45	
retrograde	-1447 May 02 j 14:34	16° පි 58'11					
opposition	-1447 Jul 22 j 13:28	15° る 33'20		conjunction	-1440 Feb 01 j 10:42	0° ≈ 00'51	-0°52'38
min. Earth dist.	-1447 Jul 21 j 17:39		28.97214 AU	minimum elong	-1440 Feb 01 j 10:41	0° ≈ 00'51	0°52'40
direct	-1447 Oct 08 j 22:34	14° る 10'23			-1440 Feb 01 j 01:41	0° ≈	
evening set	-1446 Jan 03 j 02:37	16° පි 03'01		max. Earth dist.	-1440 Feb 02 j 09:44		30.91835 AU
		_		morning rise	-1440 Feb 17 j 03:57	0° ≈ 36′18	
conjunction	-1446 Jan 18 j 13:59	16° る 37'56		retrograde	-1440 May 18 j 13:18	2° ≈ 35'09	
minimum elong	-1446 Jan 18 j 13:59	16°る37'56		min. Earth dist.	-1440 Aug 06 j 09:32		28.91360 AU
max. Earth dist.	-1446 Jan 19 j 11:10		30.96790 AU	opposition	-1440 Aug 07 j 07:09	1°≈10′05	-0°58'33
morning rise	-1446 Feb 03 j 04:35	17°る13'10		1'	-1440 Sep 26 j 09:30	30°Rる	
retrograde	-1446 May 05 j 03:49	19°る11'27	20 06424 411	direct	-1440 Oct 24 j 04:49	29° る 47'07	
min. Earth dist.	-1446 Jul 24 j 04:50	1 / 048'04	28.96434 AU		-1440 Nov 20 j 10:27	0° ≈	

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1439 in astronomical counting style is the year 1440 BCE in historical counting style. -1439 Jan 18 j 08:21 1°≈39'53 max. Earth dist. -1433 Feb 18 i 00:16 15°≈42'21 30.86206 AU evening set -1433 Mar 04 j 18:41 morning rise 16°≈15'33 -1439 Feb 02 j 22:23 2°≈15'01 -0°56'48 -1433 Jun 04 j 07:20 18°≈14'42 conjunction retrograde -1439 Feb 02 j 22:23 2°≈15'01 0°56'49 -1433 Aug 23 j 21:56 opposition 16°≈49'20 -1°27'18 minimum elong -1439 Feb 03 j 21:05 2°≈17'09 30.90782 AU -1433 Aug 22 j 21:57 16°≈51'01 28.86107 AU max. Earth dist. min. Earth dist. 15°≈26'10 morning rise -1439 Feb 18 j 16:07 2°≈50'29 direct -1433 Nov 09 j 10:28 -1432 Feb 03 j 18:07 retrograde -1439 May 21 j 03:29 4°≈49'23 evening set 17°≈19'06 opposition -1439 Aug 09 j 19:42 3°≈24'15 -1°02'58 -1432 Feb 19 j 10:55 min. Earth dist. -1439 Aug 08 j 21:09 3°≈25'48 28.90309 AU conjunction 17°≈54'24 -1°23'20 -1432 Feb 19 j 10:55 direct -1439 Oct 26 j 16:38 2°≈01'13 minimum elong 17°≈54'24 1°23'21 evening set -1438 Jan 20 j 19:49 3°≈53'59 max. Earth dist. -1432 Feb 20 j 11:48 17°≈56'45 30.85852 AU -1432 Mar 06 j 07:39 morning rise 18°≈30'04 -1438 Feb 05 j 10:12 -1432 Jun 05 j 22:18 conjunction 4°≈29'08 -1°00'54 retrograde 20°≈29'17 minimum elong -1438 Feb 05 j 10:11 4°≈29'08 1°00'56 min. Earth dist. -1432 Aug 24 j 10:19 19°≈05'35 28.85784 AU max. Earth dist. -1438 Feb 06 j 09:24 4°**≈**31'19 30.89734 AU opposition -1432 Aug 25 j 10:15 19°**≈**03'55 -1°30'56 morning rise -1438 Feb 21 j 04:21 5°≈04'38 direct -1432 Nov 10 j 21:12 17°≈40'44 retrograde -1438 May 23 j 15:14 7°≈03'34 evening set -1431 Feb 05 j 06:14 19°≈33'45 min. Earth dist. -1438 Aug 11 j 10:20 5°≈39'52 28.89304 AU opposition -1438 Aug 12 j 08:18 5°≈38'21 -1°07'18 conjunction -1431 Feb 20 j 23:30 20°≈09'04 -1°26'40 direct -1438 Oct 29 j 04:20 4°≈15'17 minimum elong -1431 Feb 20 j 23:29 20°≈09'04 1°26'40 evening set -1437 Jan 23 j 07:11 6°≈08'02 max. Earth dist. -1431 Feb 22 j 01:16 20°≈11'30 30.85521 AU morning rise -1431 Mar 08 j 20:29 20°≈44'46 conjunction -1437 Feb 07 i 22:04 6°≈43'12 -1°04'53 retrograde -1431 Jun 08 j 11:24 22°≈44'01 minimum elong -1437 Feb 07 i 22:04 6°≈43'12 1°04'54 opposition -1431 Aug 27 j 22:35 21°≈18'40 -1°34'26 max. Earth dist. -1437 Feb 08 i 21:58 6°≈45'28 30.88776 AU min. Earth dist. -1431 Aug 26 j 23:13 21°≈20'18 28.85453 AU -1437 Feb 23 j 16:36 7°≈18'44 -1431 Nov 13 i 09:25 19°≈55'30 morning rise direct -1437 May 26 j 05:24 9°≈17'42 -1430 Feb 07 j 18:39 21°≈48'33 retrograde evening set opposition -1437 Aug 14 j 20:40 7°≈52'25 -1°11'31 -1437 Aug 13 j 21:22 7°≈54'03 28.88400 AU -1430 Feb 23 j 12:17 min. Earth dist. conjunction 22°≈23'55 -1°29'52 -1437 Oct 31 j 16:26 -1430 Feb 23 j 12:17 direct 6°≈29'18 minimum elong 22°≈23'55 1°29'54 -1436 Jan 25 j 18:54 -1430 Feb 24 j 13:14 8°≈22'05 max. Earth dist. 22°≈26'16 30.85176 AU evening set -1430 Mar 11 j 09:45 22°≈59'38 morning rise -1430 Jun 11 j 02:34 -1436 Feb 10 j 10:02 8°≈57'17 -1°08'47 conjunction 24°≈58'55 retrograde 23°≈35'14 28.85084 AU -1436 Feb 10 j 10:02 -1430 Aug 29 j 11:05 minimum elong 8°≈57'17 1°08'49 min. Earth dist. -1436 Feb 11 j 09:47 -1430 Aug 30 j 10:50 max. Earth dist. 8°≈59'32 30.87920 AU opposition 23°≈33'35 -1°37'47 -1436 Feb 26 j 05:06 -1430 Nov 15 j 20:52 morning rise 9°**≈**32'50 direct 22°≈10'22 -1436 May 27 j 17:18 -1429 Feb 10 j 07:13 retrograde 11°**≈**31'51 evening set 24°≈03'29 min. Earth dist. -1436 Aug 15 j 10:24 10°≈08'06 28.87626 AU opposition -1436 Aug 16 j 09:01 10°≈06'31 -1°15'38 conjunction -1429 Feb 26 j 01:16 24°≈38'53 -1°32'57 direct -1436 Nov 02 j 02:12 8°≈43'22 minimum elong -1429 Feb 26 j 01:16 24°≈38'53 1°32'57 -1435 Jan 27 j 06:27 10°≈36'10 max. Earth dist. -1429 Feb 27 j 02:02 24°≈41'13 30.84749 AU evening set -1429 Mar 13 j 23:07 25°≈14'37 morning rise -1435 Feb 11 j 22:09 11°≈11'23 -1°12'36 -1429 Jun 13 j 16:00 27°≈13'55 conjunction retrograde -1435 Feb 11 j 22:09 11°≈11'23 1°12'36 -1429 Sep 01 j 23:13 25°≈48'34 -1°41'00 minimum elong opposition -1435 Feb 12 j 23:09 11°≈13'45 30.87214 AU min. Earth dist. -1429 Sep 01 j 00:43 25°≈50'08 28.84615 AU max. Earth dist. morning rise -1435 Feb 27 i 17:29 11°≈46'59 direct -1429 Nov 18 j 09:04 24°≈25'19 -1435 May 30 i 05:12 retrograde 13°**≈**46'02 evening set -1428 Feb 12 i 19:52 26°≈18'29 opposition -1435 Aug 18 j 21:18 12°≈20'40 -1°19'39 -1428 Feb 28 i 14:25 min. Earth dist. -1435 Aug 17 j 21:26 12°≈22'20 28.86992 AU conjunction 26°≈53'53 -1°35'52 direct -1435 Nov 04 i 14:13 10°≈57'30 minimum elong -1428 Feb 28 i 14:24 26°≈53'53 1°35'53 -1434 Jan 29 j 18:09 12°≈50'20 max. Earth dist. -1428 Feb 29 j 14:54 26°≈56'12 30.84236 AU evening set -1428 Mar 15 j 12:36 27°≈29'39 morning rise -1434 Feb 14 j 10:05 -1428 Jun 15 j 07:02 29°≈28'57 conjunction 13° \$25'35 -1°16'17 retrograde minimum elong -1434 Feb 14 i 10:05 13°≈25'35 1°16'18 opposition -1428 Sep 03 j 11:14 28°≈03'33 -1°44'03 -1428 Sep 02 j 12:11 28°≈05'10 28.84058 AU max. Earth dist. -1434 Feb 15 j 10:27 13°≈27'53 30.86647 AU min. Earth dist. -1434 Mar 02 j 06:01 14°≈01'12 direct -1428 Nov 19 j 21:58 26°≈40'16 morning rise -1434 Mar 31 j 04:25 15°≈ evening set -1427 Feb 14 j 08:36 28°≈33'27 -1434 Jun 01 j 18:39 16°≈00'19 retrograde -1434 Aug 06 j 04:14 -1427 Mar 02 j 03:26 15°R≈ conjunction 29°≈08'53 -1°38'40 min. Earth dist. -1434 Aug 20 j 10:12 14°**≈**36'35 28.86501 AU -1427 Mar 02 j 03:26 minimum elong 29°≈08'53 1°38'40 opposition -1434 Aug 21 j 09:45 14°**≈**34'56 -1°23'32 max. Earth dist. -1427 Mar 03 j 03:08 29°≈11'07 30.83642 AU direct -1434 Nov 06 j 23:07 13°≈11'45 morning rise -1427 Mar 18 j 02:07 29°≈44'40 -1433 Jan 30 j 03:24 15°≈ -1427 Mar 25 j 03:27 0°**)**€ evening set -1433 Feb 01 j 05:59 15°≈04'38 retrograde -1427 Jun 17 j 19:14 1°**)**43'57 opposition -1427 Sep 05 j 23:28 0° **★**18'31 -1°46'57 -1433 Feb 16 j 22:30 15°≈39'55 -1°19'52 min. Earth dist. -1427 Sep 05 j 01:44 0°¥20'02 28.83455 AU conjunction -1433 Feb 16 j 22:30 15°≈39'55 1°19'52 -1427 Sep 17 j 01:30 minimum elong 30°R≈

According content	•	omena of Neptune f		•				page 38
1-426 Am 3-4 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74 10.54 0.74				in astronomical co				
cenameste -1426 Feb 16 j 2100 69 M832 2 opposition in Farth side -1420 Sep 20 j 130 0 167 M37 0 28 1819 A 1819 A 1819 A 1819 A 1812 Nee 20 j 130 0 167 M37 0 28 1819 A 1819 A 1819 A 1812 Nee 20 j 130 0 167 M37 1 1819 A	direct				-	1 3		
16,200 1					-			
composition -142 Mart 4 1631 142 Stay 4 14118 drifted -1420 Mare 6 1632 142 Stay 4 14118 -1420 Mar 6 1632 142 Stay 5 1420 Stay 5 1420 Stay 6 14119 -1420 Mar 6 1632 Stay 1 1420 Stay 1 1420 Stay 1 1420 Mar 6 1532 Stay 1 1420 Mar 7 1420 Mar 7 1532 Stay 1 1420 Mar 7 1420 Mar 7 1532 Stay 1 1420 Mar 7 1532 Mar 7 1420 Mar 7	evening set	-1426 Feb 16 j 21:06	0° 大 48′22		**			
minimum clong	. ,.	142634 04:1621	101/22140	1041110				28.81509 AU
morning miss .426 Mar 20j1529 F54978 conjunction .418 Mar 20j1416 F740852 .478140 opposition .4126 Keg 0 fight 26 .478132 .479471 conjunction .4126 Keg 0 fight 26 .478132 .479471 conjunction .4126 Keg 0 fight 27 .478132 .479471 conjunction .4126 Keg 0 fight 27 .478132 .479471 conjunction .4128 Mar 0 fight 28 .478132 .479471 conjunction .4128 Mar 0 fight 29 .478432 .479471 conjunction .4128 Mar 0 fight 28 .478432 .479471 conjunction .4128 Mar 0 fight 29 .478432 .479471 .4794		·			evening set	-1419 Mar 04 J 15:56	16°大33'14	
minimum clong		3		30.83036 AU		141034 20:1416	170\/00150	1055114
opposition 4126 Sept 0 jil 126 2943324 1494310 mms. Farth dist. -1419 Arp 25 ji 1360 794170 031427 AU dicert -1426 Sept 0 ji 1364 2944392 282885 AU opposition -1419 Arp 25 ji 1363 194100 opposition -1419 Arp 25 ji 1363 18941833 203737 conjunction -1425 Mar 07 ji 05.33 3943842 143477 direct -1419 Mar 23 ji 0307 18942002 28.81627 AU max. Farth dist. -1425 Mar 07 ji 05.33 3943842 143477 conjunction -1418 Mar 23 ji 0401 1994243 -15532 18944843 140702 1894202 1894243 1453 Mar 10 ji 040 1418 Mar 23 ji 0401 1994243 -15632 175632	-				-			
min Earth dist. 4128 Sept 9 07 j.1304 2974399 288288 AU moming rise -1419 Not 90 j.1548 1794488 398283 evening set -1428 Feb 19 j.09.58 394034 recognate -1419 Not 90 j.056.59 1874832 27037 conjunction -1425 Mor 07 j.05.39 3943842 1-94347 drect -1419 Not 90 j.05.09 1874870 2881627 AU conjunction -1425 Mor 07 j.05.39 3943842 1-94347 drect -1418 Mor 20 j.00.09 1874870 2881627 AU morning men -1425 Mor 10 j.00.00 3944812 393660 AU minimum clong -1425 Mor 20 j.00.01 9742423 1-9532 19532 19532 19532 19532 1954223 1-9532 19532 1954223 1-9532 195423 19562 1974223 1-9532 19532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 19562 1974223 1-9532 195622 1974223 1-9532 19562 1974223 1-9532 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>-</td> <td></td> <td></td>					_	-		
direct 1-42 No. 92 4 [21.77 194 (100) crangade -1419 Jul 106, 106-15 1974, 1975 1974, 255 20.97 1874, 200 20.97 (1874, 200) 20.						•		30.81427 AU
cenings 1425 Feb 19 j0 938 3 3*H0314 some sine farth data 419 Sep 2 j2 j				28.82858 AU	-			
conjunction 1.425 Mar 07 j 05.39 3°H 38°42 1.437 Mar of incet 1.419 Sep 23 j 00.37 18°H 2000 2.88 1627 AU minimum elong 1.425 Mar 07 j 05.39 3°H 38°42 1243 Mar of incet -1419 Mar 07 j 05.20 18°H 48'3 max. Farth dist. -1425 Mar 08 j 04-48 3°H 48'33 30.810 AU conjunction -1418 Mar 23 j 04.01 19°H 24'23 1°5032 rotograde -1425 Sun 22 j 205-43 6°H 13'43 minimum elong -1418 Mar 23 j 04.01 19°H 24'23 1°5032 min Farth dist. -1425 Sep 10 j 01-64 3°H 48'45 5°E 216 max. Farth dist. -1428 Nov 27 j 06-43 3°H 28'44 engosition -1418 Mar 23 j 04.01 19°H 22'23 1°5032 conjunction -1424 Mar 28 j 1900 5°H 53'34 1°4606 dretc -1418 Mar 23 j 04.01 9°H 20'32 1°5032 minimum elong -1424 Mar 28 j 1900 5°H 53'34 1°4606 dretc -1418 Mar 29 j 04'30 9°H 20'32 2°H 20'32 minimum elong -1424 Mar 24 j 18'42 6°H 22'24 max Earth dist. -1417 Mar 25 j 18'12 2°H 40'01 1°F 37'32 <td></td> <td>3</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>		3			-	-		
conjunction -1428 Mar 07 j0539 3°H2842 - J94374 direct -1419 Dec 10 j0509 16°H5458 *** minimum clong -1425 Mar 07 j0543 3°H2842 - J94374 evening set -1418 Mar 07 j05.22 18°H2843 max. Earth dist. -1425 Mar 23 j05:10 4°H1435 conjunction -1418 Mar 23 j04:01 19°H2423 1°5032 ricrograde -1425 Nep 21 j0244 4°H4185 1°S2116 max. Earth dist. -1418 Mar 23 j04:01 19°H2423 1°5032 min. Earth dist. -1425 Nep 21 j0244 3°H2446 ertograde -1418 Mar 23 j04:00 2°H5926 ceniguection -1424 Mar 08 j1900 3°H3344 1°4606 direct -1418 Mar 24 j04:02 2°H5926 2°H5926 max. Earth dist. -1424 Mar 08 j1900 3°H3344 1°4606 direct -1417 Mar 19 j04:02 2°H5926 2°H5926 max. Earth dist. -1424 Mar 08 j1900 3°H3344 1°4606 minimum clong -1424 Mar 08 j1900 3°H3344 1°4606 minimum clong 1424 Mar 09 j1903 3°H3493 1°4606 minimum clong -1417 Mar 25 j1812	evening set	-1425 Feb 19 j 09:58	3° 大 03'14					
minimachengen max Earth dist. 1-425 Mar 07 j 05-30 s 39/43-842 1*347 evening set 1-418 Mar 07 j 05-22 1*5*04.54 18*Mar 07 j 05-22 1*5*04.54 18*Mar 07 j 05-22 1*5*04.54 18*Mar 07 j 05-22 1*5*04.52 18*Mar 07 j 05-22 1*5*05.23			>					28.81627 AU
max Farth dist -1425 Mar 28 jol-104 8*P46725 conjunction -1418 Mar 23 jol-01 19*P2473 -1*5082 retrograde -1425 Mar 23 jol-104 19*P2473 -1*5082 retrograde -1425 Mar 12 jol-104 4*P48135 -1*50*10 minimum clong -1418 Mar 23 jol-01 19*P2473 1*50*23 1*50*23 1*50*23 1*50*23 1*50*23 1*50*23 1*50*23 1*50*23 1*50*23 1*50*25 1*50*2		•				-		
morning rice -1425 Mar 23 j 0-510 49 k 1432 conjunction -1418 Mar 23 j 0-401 19 k 2622 15 6022 opposition -1425 Sep 10 j 231 44 k 4815 1-5216 max. Earth dist. -1418 Mar 23 j 0-401 19 k 2623 30.81534 AU min. Earth dist. -1425 Sep 10 j 231 44 k 4815 1-5216 max. Earth dist. -1418 Mar 23 j 0-401 19 k 2623 30.81534 AU min. Earth dist. -1425 Sep 10 j 231 44 k 4815 1-5216 max. Earth dist. -1418 Mar 23 j 0-401 19 k 2623 30.81534 AU min. Earth dist. -1425 Sep 10 j 231 44 k 4815 45 k 4815 44 k 4815 45 k 4815 44 k 481					evening set	-1418 Mar 07 J 05:22	18° ∺ 48'43	
retorgade -1425 Am 22 j 2054 6°M 1345 minimum elong -1418 Mar 23 j 601 19°M 222 19°032 and 19°M 201 opposition -1425 Sep 10 j 2148 4°M 4874 28.82331 AU morning rise -1418 Mar 23 j 601 19°M 200 30.8134 AU direct -1424 Kep 12 j 2244 5°M 2446 retorgade -1418 Mar 08 j 19.00 29°M 330* 29°M 370* 20°M 37				30.82460 AU				
opposition -1425 Sep 10 j 2318 4*P44975 2*5216 max Earth dist -1418 Mar 24 j 0156 19*P2676 30,81534 AU direct -1425 Nev 27 j 0643 3*P4246 retograde -1418 Ngr 08 j 0600 20*P4022 20*P4022 cwening et -1424 Feb 21 j 2244 5*P1804 retograde -1418 Ngr 08 j 1600 20*P45925 20*P4397 - 2*°0515 conjunction -1424 Mar 08 j 1900 5*P5334 1*4606 direct -1417 Mar 29 j 1858 29*P40420 20*P4397 - 2*°0515 max. Earth dist -1424 Mar 09 j 1900 5*P5334 1*4606 direct -1417 Mar 29 j 1858 29*P40420 20*P40420 max. Earth dist -1424 Mar 09 j 1900 5*P5350 30.81971 AU minimum clong -1417 Mar 29 j 1853 21*P4091 1*5739 minimum clong -1424 Mar 24 j 1842 6*P23 j 1107 7*P0005 1*S4190 max. Earth dist minimum clong -1417 Mar 25 j 1812 21*P4001 1*5739 retograde -1424 No 28 j 1829 5*93333 2*84 minimum clong -1441 Mar 25 j 1812 21*P4001 1*5739 direct -1424 No 28 j 1829 5*93333 2*84 minimum clong -1417 Mar 25 j 1812 2*9*H600 conjunction -1423 Mar 1 j 0.804 5*94033 2*84 minimum clong -1417 Mar 25 j 1812 2*9*H600 conjunction	-	•			3	-		
min. Earl dist 4.125 Sep 1.9 [0.14.6] 4.744946 28.82331 AU momming rise -1418 Apr 0.8 [0.60.0] 0.7469272 1.745750 2.745	-	•			0			
direct 1.428 Nov 27 j 06.43 3°H.2446 proposition -1418 Nul 08 j 19.30 21°H.5926 20°H.5027 20°H						-		30.81534 AU
evening set - 1,424 Feb 21 j 22,44 5° + 1,804 opposition - 1,418 Sep 26 j 0.922 20° + 1,407 2° - 2° 0.715 2° 8,212 AU				28.82331 AU	•			
Conjunction		3			•			
conjunction -1424 Mar 08 j 19-00 5° ¥33°3 1° 4'060 direct -1417 Mar 09 j 18-03 19° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10	evening set	-1424 Feb 21 j 22:44	5°) 18′04		opposition	1 3		
minimum elong -1424 Mar 08 j 19:00 5°¥53'53 1°46'07 evening set -1417 Mar 09 j 18:58 21°¥04'20 max. Earth dist. -1424 Mar 29 j 18:10 6°¥52'94 conjunction -1417 Mar 25 j 18:12 21°¥40'01 -1°57'39 retrograde -1424 Sep 12 j 11:07 7°¥03'05 1°54'00 minimum elong -1417 Mar 25 j 18:12 21°¥40'01 1°57'38 opposition -1424 Sep 12 j 11:07 7°¥03'05 1°54'00 max. Earth dist. -1417 Mar 25 j 18:12 21°¥40'01 1°57'38 opposition -1424 Sep 12 j 11:03 7°¥30'5 1°54'00 morning rise -1417 Mar 26 j 16:01 21°¥4'16'0 21°¥4'16'0 evening set -1423 Feb 23 j 11:33 7°¥45'25 opposition -1417 Sep 28 j 01:33 22°¥5'10'0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02 20°0 22°84'19'02					min. Earth dist.	-1418 Sep 25 j 14:07		28.81722 AU
max. Earth dist. -1424 Mar 24 j 1842 6°\$M5293 30.81971 AU conjunction -1417 Mar 25 j 18.12 21°\$M0701 -19573 retrotograde -1424 Mar 24 j 1842 6°\$M2924 minimum elong -1417 Mar 25 j 18.12 21°\$M0701 1°\$5738 opposition -1424 Sep 12 j 11.03 7°\$H0395 1°54048 minimum elong -1417 Mar 26 j 16.01 21°\$M2042 30.81596 AU direct -1424 Sep 1 j 13.18 7°\$H0395 1°540437 28.81899 AU moming rise -1417 Apr 10 j 10.04 22°\$H1600 direct -1423 Feb 23 j 11.33 7°\$H2373 8.81899 AU moming rise -1417 Sep 28 j 10.51 22°\$H2600 evening set -1423 Mar 11 j 08.04 8°\$H0825 1°4816 direct -1417 Dec 15 j 05.01 21°\$H2507 enjininum elong -1423 Mar 11 j 08.04 8°\$H0825 1°4816 direct -1416 Mar 11 j 08.04 28°\$H3925 1°4816 direct -1416 Mar 11 j 08.04 28°\$H3530 28°\$H3530 28°\$H3534 1°5836 1°5836 1°416 Mar 27 j 08.17 23°\$H5543 1°5836 1°5836 1°416 Mar 27 j 08.1	conjunction	-1424 Mar 08 j 19:00	5°) 53′34	-1°46'06	direct	-1418 Dec 12 j 16:03		
morning rise -1424 Mar 24 j 18:42 6° M2924 minimum elong -1417 Mar 25 j 18:12 21° 4400 -15739 retrograde -1424 Jun 24 j 08:53 8° M2836 minimum elong -1417 Mar 25 j 18:12 21° 4400 12° 7390 opposition -1424 Sep 1 j 11:10 7° M0305 - 1° 5440 max. Earth dist. -1417 Apr 10 j 20:22 22° 41500 direct -1423 Nov 28 j 18:29 5° M3933 retrograde -1417 Apr 10 j 20:24 22° 41500 conjunction -1423 Mar 11 j 08:04 8° M0825 -1816 direct -1417 Sep 28 j 01:33 22° 48150 conjunction -1423 Mar 11 j 08:04 8° M0825 -1816 direct -1417 Dec 15 j 05:01 22° 48150 max. Earth dist. -1423 Mar 12 j 08:10 8° M0825 -18416 direct -1416 Mar 11 j 08:04 23° M200 morning rise -1423 Mar 12 j 08:11 8° M4035 18816 devening set -1416 Mar 27 j 08:16 23° M5735 38° M358 retrograde -1423 Jun 27 j 08:16 8° M4316 18° M4325 minimum elong -1416 Mar 27 j 08:17 23° K5543 15° 8	minimum elong	-1424 Mar 08 j 19:00	5°) 53′34	1°46'07	evening set	-1417 Mar 09 j 18:58	21°) €04'20	
retrograde	max. Earth dist.	-1424 Mar 09 j 19:09	5° ¥ 55'50	30.81971 AU				
opposition in Earth dist. 1424 Sep 12 j 11:107 7*W0375 15*440 max. Earth dist. 1417 Agr 10 j 20:22 22*W1600 30.81596 AU direct -1424 Nov 28 j 18:29 5*X3933 retrograde -1417 Agr 10 j 20:22 22*W1600 -2*W1502 22*W1600 -2*W1502 22*W15102 22*W15	morning rise	-1424 Mar 24 j 18:42	6°) 29′24		conjunction		21°) 40′01	-1°57'39
min. Earth dist. -1424 Sep. 11 j 13:18 7*Mo437 28.81899 AU morning rise -1417 Au r 10 j 20:24 22*M1600 -1424 Nov 28 j 18:29 5*Mo425 retrograde -1417 Jul 11 j 03:43 22*M1600 24*M1702 22*M4945 200621 evening set -1423 Feb 23 j 11:33 7*M32*54 poposition -1417 Sep 28 j 0:133 22*M5107 28.81735 AU conjunction -1423 Mar 11 j 08:04 8*M0825 1*4816 cevening set -1416 Mar 11 j 08:48 23*M2000 -1428 Mar 11 j 08:40 8*M0825 1*4816 cevening set -1416 Mar 11 j 08:48 23*M2000 -1428 Mar 11 j 08:48 23*M2000 -1428 Mar 12 j 00:711 8*M1615 cevening set -1416 Mar 27 j 08:17 23*M5543 1*5836 erbetrograde -1423 Mar 14 j 02:25 9*M17456 -18653 max. Earth dist. -1416 Mar 27 j 08:17 23*M5543 1*5836 opposition -1423 Sep 14 j 02:27 9*M17456 1*5653 max. Earth dist. -1416 Mar 28 j 04:12 23*M5733 30.81558 AU minimum clong -1422 Sep 16 j 10:25 9*M4747 retrograde -1416 Apr 12 j 10:3	retrograde	-1424 Jun 24 j 08:53	8°) €28'36		minimum elong	-1417 Mar 25 j 18:12	21°) 40′01	1°57'38
direct -1424 Nov 28 j 18:29 5°H3933 retrograde -1417 Nul 1 j 09-43 24"H5702 29"H5107 28 18135 AU 20"H5107 20"	opposition	-1424 Sep 12 j 11:07	7° ₩ 03'05	-1°54'40	max. Earth dist.	-1417 Mar 26 j 16:01	21°) 42'04	30.81596 AU
evening set	min. Earth dist.	-1424 Sep 11 j 13:18	7°) €04'37	28.81899 AU	morning rise	-1417 Apr 10 j 20:24	22°) 16′00	
min. Earth dist. -1417 Sep 28 j 01:33 22 % 15 107 28 8.1735 AU	direct	-1424 Nov 28 j 18:29	5°) 39'33		retrograde	-1417 Jul 11 j 09:43	24°) 15′02	
conjunction -1423 Mar 11 j 08:04 8°M08°25 1°48°16 ewening set -1417 Dec 15 j 05:01 21°M2607 Head of the seminal points and the seminal poi	evening set	-1423 Feb 23 j 11:33	7°) € 32'54		opposition	-1417 Sep 28 j 20:51	22°) 49′45	-2°06'21
minimum elong max. Earth dist.					min. Earth dist.	-1417 Sep 28 j 01:33	22°) 51′07	28.81735 AU
max. Earth dist. -1423 Mar 12 j 07:11 8° ±10'13 30.81605 AU conjunction -1416 Mar 27 j 08:17 23° ±55'3 -158'36 retrograde -1423 Mar 27 j 08:16 8° ±44'16 conjunction -1416 Mar 27 j 08:17 23° ±55'33 1°58'36 opposition -1423 Sep 14 j 01:11 9° ±17'56 -1°56'33 max. Earth dist. -1416 Mar 28 j 04:12 23° ±5'33 30.8158 AU min. Earth dist. -1423 Sep 14 j 01:11 9° ±19'28 28.81612 AU morning rise -1416 Apr 12 j 10:58 24° ±3'13' 30.8158 AU evening set -1422 Feb 26 j 00:25 9° ±47'4 opposition -1416 Apr 12 j 10:58 24° ±3'14' 26° ±30'40' conjunction -1422 Mar 13 j 21:29 10° ±23'20 -1°50'16 direct -1416 Dec 16 j 15:21 23° ±4'14'2 25° ±6'03'3 28'*816'3 -20° ±16'40' 25° ±3'53'3 25° ±3'53'3 25° ±3'53'3 30.813'8 AU 40° ±16'16' 1416 Dec 16 j 15:21 23° ±4'14'2 20° ±16'40' 25° ±6'63' 20° ±16'40' 20° ±14'40' 25° ±6'53'3 20° ±6'51'31' 20° ±14'14' 25° ±6'53'3 20° ±14'14'<	conjunction	-1423 Mar 11 j 08:04	8°) €08'25	-1°48'16	direct	-1417 Dec 15 j 05:01	21°) €26'07	
moming rise -1423 Mar 27 j 08:16 8° X44"16 conjunction -1416 Mar 27 j 08:17 23° X55*34 -1°58'36 opposition -1423 Sep 14 j 22:57 9° X17'56 -1°56'53 max. Earth dist. -1416 Mar 27 j 08:17 23° X55'33 30.81558 AU min. Earth dist. -1423 Sep 14 j 01:11 9° X17'56 -1° 56'53 max. Earth dist. -1416 Mar 27 j 08:17 23° X5'73'3 30.81558 AU direct -1423 Dec 01 j 05:08 7° X54'22 retrograde -1416 Jul 12 j 23:36 26° X30'40 20° X16'13 20° X16'13 20° X16'14	minimum elong	-1423 Mar 11 j 08:04	8°) €08'25	1°48'16	evening set	-1416 Mar 11 j 08:48	23°) €20'00	
retrograde -1423 Jun 26 j 22:34 10° H 43°27 minimum elong -1416 Mar 27 j 08:17 23° H 58° 36 18° 58° 36 opposition -1423 Sep 14 j 22:57 9° H 178° 6 -1° 56′ 53 max. Earth dist. -1416 Mar 28 j 04:12 23° H 57° 33 30.8158 AU min. Earth dist. -1423 Bep 14 j 01:11 9° H 178° 8 28.81612 AU morning rise -1416 Apr 12 j 10:58 24° H 31′ 3 direct -1423 Bep 14 j 01:10 9° H 19° 8 28.81612 AU morning rise -1416 Apr 12 j 10:58 24° H 31′ 3 evening set -1422 Beb 26 j 00:25 9° H 47′ 4 ertograde -1416 Sep 30 j 08:33 25° H 05′ 23 2° 07′ 16 evening set -1422 Mar 13 j 21:29 10° H 23° 20 1° 50′ 16 direct -1416 Bec 16 j 15:21 23° H 41′ 2 25° H 63′ 3 28° H 17′ 2 28° H 63′ 3 28° H 17′ 2 28° H 63′ 3 28° H 17′ 2 28° H 63′ 3 28° H 63′ 3 28° H 17′ 2 28° H 63′ 3 28° H 63′ 3 28° H 17′ 2 28° H 63′ 3 28° H 63′ 3 28° H 63′ 3	max. Earth dist.	-1423 Mar 12 j 07:11	8°) 10′35	30.81605 AU				
opposition -1423 Sep 14 j 22:57 9° ± 1756 -1°56′53 max. Earth dist. -1416 Mar 28 j 04:12 23° ± 5735 30.81558 AU min. Earth dist. -1423 Sep 14 j 01:11 9° ± 1928 28.81612 AU morning rise -1416 Jul 12 j 10:58 24° ± 31′43 -422 Mar 13 j 20:01 26° ± 30′40 -422 Feb 26 j 00:25 9° ± 47′47 opposition -1416 Sep 30 j 08:33 25° ± 60′30 28.81662 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28° ± 60′30 28.81656 AU -416 Sep 30 j 08:33 25° ± 60′30 28° ± 60′30 28° ± 60′30 28.81656 AU 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ± 60′30 28° ±	morning rise	-1423 Mar 27 j 08:16	8°) 44'16		conjunction	-1416 Mar 27 j 08:17	23°) 55'43	-1°58'36
min. Earth dist. -1423 Sep 14 j 01:11 9°M1928 28.81612 AU moming rise -1416 Apr 12 j 10:58 24°M3143 decending and the composition -1422 Feb 26 j 00:508 7°M54722 retrograde -1416 Sep 30 j 08:33 25°M50730 2°20716 conjunction -1422 Feb 26 j 00:25 9°M4747 -160 min. Earth dist. -1416 Sep 20 j 14:40 25°M0523 2°0716 conjunction -1422 Mar 13 j 21:29 10°M2320 -1°5016 direct -1416 Dec 16 j 15:21 23°M4142 25°M6739 28.81656 AU max. Earth dist. -1422 Mar 13 j 21:29 10°M23320 1°5016 evening set -1415 Mar 13 j 22:18 25°M5737 -160 M2 max. Earth dist. -1422 Mar 14 j 21:29 10°M59712 conjunction -1415 Mar 29 j 22:23 26°M1121 -1°59'22 retrograde -1422 Mar 14 j 21:29 10°M59712 conjunction -1415 Mar 29 j 22:23 26°M1121 1°59'21 opposition -1422 Mar 14 j 21:29 11°M32'52 -1°58'56 max. Earth dist. -1415 Mar 29 j 22:23 26°M1121 1°59'21 opposition -1421 Sep 16 j 13:25	retrograde	-1423 Jun 26 j 22:34	10°) 43′27		minimum elong	-1416 Mar 27 j 08:17	23°) 55'43	1°58'36
direct -1423 Dec 01 j 05.08 7° %54°22 retrograde -1416 Jul 12 j 23:36 26° % 30/40 -20716 evening set -1422 Feb 26 j 00:25 9° %4747 opposition -1416 Sep 30 j 08:33 25° %05′23 -2°0716 conjunction -1422 Mar 13 j 21:29 10° %23′20 -1°50′16 direct -1416 Mec 16 j 15:21 25° %45′33 -2°0716 max. Earth dist. -1422 Mar 13 j 21:29 10° %23′20 1°50′16 evening set -1415 Mar 13 j 22:18 25° %35′37 -1422 Mar 13 j 21:29 20° %41′21 40° %43′30 1°50′16 evening set -1415 Mar 13 j 22:18 25° %35′37 -1422 Mar 29 j 21:30 10° %23′30 1°50′16 evening set -1415 Mar 29 j 22:23 26° %11′21 -1°59′22 retrograde -1422 Jun 29 j 10:51 10° %59′12 -1°58′56 minimum elong -1415 Mar 29 j 22:23 26° %11′21 1°59′22 direct -1422 Sep 16 j 13:25 11° %32′22 28.81458 AU morning rise -1415 Mar 20 j 10° 30 26° %41′22 1° 59′25 evening set -1421 Feb 28 j 13:29 12° %02′46 morning ri	opposition	-1423 Sep 14 j 22:57	9°) 17′56	-1°56'53	max. Earth dist.	-1416 Mar 28 j 04:12	23°) ₹57'35	30.81558 AU
evening set	min. Earth dist.	-1423 Sep 14 j 01:11	9° ₩ 19'28	28.81612 AU	morning rise		24°) 31'43	
evening set -1422 Feb 26 j 00:25 9° ±4747 opposition min. Earth dist. -1416 Sep 29 j 14:40 25° ±06'39 2-07'16 conjunction -1422 Mar 13 j 21:29 10° ±23'20 1°50'16 direct -1416 Dec 16 j 15:21 25° ±40'32 28.81656 AU max. Earth dist. -1422 Mar 13 j 21:29 10° ±23'25 1°50'16 evening set -1415 Mar 13 j 22:18 25° ±35'37 -150'16 max. Earth dist. -1422 Mar 14 j 21:29 10° ±25'35 30.81378 AU conjunction -1415 Mar 29 j 22:23 26° ±11'21 1°59'22 retrograde -1422 Mar 29 j 10:51 12° ±58'22 1°58'56 max. Earth dist. -1415 Mar 29 j 22:23 26° ±11'21 1°59'21 opposition -1422 Sep 17 j 10:40 11° ±32'52 1°58'56 max. Earth dist. -1415 Mar 29 j 22:23 26° ±11'21 1°59'21 direct -1422 Sep 16 j 13:25 1°2 ±38'25 1°58'56 max. Earth dist. -1415 Mar 30 j 18:33 26° ±11'21 1°59'22 direct -1422 Dec 03 j 16:49 10° ±09'17 retrograde 1415 Jul 15 Jul 20'15 2°0 ±75'25 2°0 ±75'25 <td>direct</td> <td>-1423 Dec 01 j 05:08</td> <td>7°¥54'22</td> <td></td> <td>retrograde</td> <td>-1416 Jul 12 j 23:36</td> <td>26°) 30′40</td> <td></td>	direct	-1423 Dec 01 j 05:08	7° ¥ 54'22		retrograde	-1416 Jul 12 j 23:36	26°) 30′40	
conjunction	evening set	-1422 Feb 26 j 00:25	9°)(47'47		opposition	-1416 Sep 30 j 08:33	25°) €05'23	-2°07'16
minimum elong		·			min. Earth dist.		25°) €06'39	28.81656 AU
minimum elong	conjunction	-1422 Mar 13 j 21:29	10° ¥ 23′20	-1°50'16	direct	-1416 Dec 16 j 15:21	23°) 41'42	
max. Earth dist. -1422 Mar 14 j 21:29 10° €25'35 30.81378 AU conjunction -1415 Mar 29 j 22:23 26° €11'21 -1°59'22 retrograde -1422 Jun 29 j 10:51 12° €58'22 minimum elong -1415 Mar 29 j 22:23 26° €11'21 -1°59'22 opposition -1422 Sep 17 j 10:40 11° €32'52 -1°58'56 max. Earth dist. -1415 Mar 30 j 18:33 26° €11'12 1°59'21 opposition -1422 Sep 16 j 13:25 11° €32'52 11° €32'56 max. Earth dist. -1415 Mar 30 j 18:33 26° €11'12 1°59'21 direct -1422 Dec 03 j 16:49 10° €09'17 retrograde -1415 Mar 15 j 01:13 26° €47'22 28° €46'13 26° €47'22 28° €46'13 26° €47'22 26° €47'22 28° €46'13 30.81432 AU morning rise -1415 Jul 15 j 01:50 28° €46'13 26° €47'22 28° €46'13 28° €46'12 26° €47'22 28° €46'13 28° €46'13 28° €46'13 28° €46'13 28° €46'52 2° 07'59 28° €46'52 2° 07'59 28° €46'52 2° 07'59 28° €45'51 2° 07'59 28° €3'51'13 28° €3'51'13 28° €3'57'			10°) 23′20	1°50'16	evening set	·		
morning rise -1422 Mar 29 j 21:56 10° ± 59'12 conjunction -1415 Mar 29 j 22:23 26° ± 11'21 -159'22 retrograde -1422 Jun 29 j 10:51 12° ± 58'22 minimum elong -1415 Mar 29 j 22:23 26° ± 11'21 159'21 opposition -1422 Sep 17 j 10:40 11° ± 32'52 -1°58'56 max. Earth dist. -1415 Mar 30 j 18:33 26° ± 13'15 30.81432 AU min. Earth dist. -1422 Sep 16 j 13:25 11° ± 34'22 28.81458 AU morning rise -1415 Apr 15 j 01:13 26° ± 47'22 28° ± 46'13 evening set -1421 Feb 28 j 13:29 12° ± 02'46 opposition -1415 Oct 02 j 02:05 27° ± 20'56 -2°07'59 conjunction -1421 Mar 16 j 10:56 12° ± 38'21 -1°52'05 direct -1415 Dec 19 j 04:09 25° ± 57'11 28.81488 AU conjunction -1421 Mar 16 j 10:56 12° ± 38'21 -1°52'05 direct -1414 Mar 16 j 10:50 25° ± 57'11 28.81488 AU max. Earth dist. -1421 Mar 16 j 10:55 12° ± 40'31 12° ± 40'31 0.81300 AU 27° ± 51'08 28° ± 51'08 28° ± 51'08 2	•				5 ·	. ,		
retrograde	morning rise		10° ¥ 59'12		conjunction	-1415 Mar 29 j 22:23	26° ₩ 11'21	-1°59'22
opposition -1422 Sep 17 j 10:40 11° χ32′52 -1° 58′56 max. Earth dist. -1415 Mar 30 j 18:33 26° χ13′15 30.81432 AU min. Earth dist. -1422 Sep 16 j 13:25 11° χ34′22 28.81458 AU morning rise -1415 Apr 15 j 01:13 26° χ47′22 20° γ47′22	•				-	-		
min. Earth dist.				-1°58'56	· ·	-		
direct						-		
evening set				20.01.00110	-			
min. Earth dist. -1415 Oct 02 j 02:31 27° \ 22'11 28.81488 AU conjunction -1421 Mar 16 j 10:56 12° \ 38'21 1°52'05 direct -1415 Dec 19 j 04:09 25° \ 57'11 minimum elong -1421 Mar 16 j 10:56 12° \ 48'21 1°52'05 evening set -1414 Mar 16 j 12:06 27° \ 51'08 max. Earth dist. -1421 Mar 17 j 10:05 12° \ 40'31 30.81300 AU morning rise -1421 Apr 01 j 11:52 13° \ 41'15 conjunction -1414 Apr 01 j 12:28 28° \ 26'52 -1°59'56 retrograde -1421 Jul 02 j 01:48 15° \ 41'32 minimum elong -1414 Apr 01 j 12:28 28° \ 426'52 1°59'57 opposition -1421 Sep 19 j 02:21 13° \ 44'156 -2°00'47 max. Earth dist. -1414 Apr 02 j 06:48 28° \ 428'36 30.81251 AU morning rise -1414 May 15 j 20:02 0° \ 4 evening set -1420 Mar 02 j 02:41 14° \ 17'155 retrograde -1414 Sep 21 j 04:51 30° \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \ 4 \					-	-		-2°07'59
conjunction minimum elong -1421 Mar 16 j 10:56 12° χ38'21 -1°52'05 direct -1415 Dec 19 j 04:09 25° χ57'11 4 cevening set -1414 Mar 16 j 12:06 27° χ51'08 4 cevening set -1414 Mar 16 j 12:06 27° χ51'08 4 cevening set -1414 Mar 16 j 12:06 27° χ51'08 4 cevening set -1414 Mar 16 j 12:06 27° χ51'08 4 cevening set -1414 Mar 16 j 12:06 27° χ51'08 4 cevening set -1414 Mar 16 j 12:06 27° χ51'08 4 cevening set -1414 Apr 01 j 12:28 28° χ26'52 -1°59'56 -1°59'56 1 cevening set -1414 Apr 01 j 12:28 28° χ26'52 -1°59'56 -1°59'56 -1°59'56 -1°59'56 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 -1°59'56 -1°59'56 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°59'56 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°59'56 -1°414 Apr 01 j 12:28 28° χ26'52 1°59'57 -1°414 Apr 01 j 12	evening sec	1121100 20 j 15.29	12 /(02 10			-		
minimum elong max. Earth dist1421 Mar 16 j 10:56 12° χ 40′31 30.81300 AU morning rise -1421 Apr 01 j 11:52 13° χ 14′15 conjunction -1421 Apr 01 j 12:28 28° χ 26′52 -1°59′56 retrograde -1421 Jul 02 j 01:48 15° χ 13′24 minimum elong -1414 Apr 01 j 12:28 28° χ 26′52 1°59′57 opposition -1421 Sep 19 j 22:21 13° χ 44′26 -2°00′47 max. Earth dist1414 Apr 02 j 06:48 28° χ 28′36 30.81251 AU min. Earth dist1421 Dec 06 j 03:51 12° χ 24′20 retrograde -1420 Mar 02 j 02:41 14° χ 17′55 retrograde -1414 Sep 21 j 04:51 30° χ χ 40′20 retrograde -1420 Mar 18 j 00:31 14° χ 53′31 -1°53′45 opposition -1414 Oct 05 j 07:27 29° χ 37′32 28.81301 AU minimum elong -1420 Mar 18 j 00:31 14° χ 53′31 1°53′45 min. Earth dist1414 Oct 04 j 14:39 29° χ 37′32 28.81301 AU	conjunction	-1421 Mar 16 i 10:56	12°¥38'21	-1°52'05				20.01400 AC
max. Earth dist. -1421 Mar 17 j 10:05 12° ★ 40'31 30.81300 AU morning rise -1421 Apr 01 j 11:52 13° ★ 14'15 conjunction -1414 Apr 01 j 12:28 28° ★ 26'52 -1°59'56 retrograde -1421 Jul 02 j 01:48 15° ★ 13'24 minimum elong -1414 Apr 01 j 12:28 28° ★ 26'52 1°59'57 opposition -1421 Sep 19 j 22:21 13° ★ 47'56 -2°00'47 max. Earth dist. -1414 Apr 02 j 06:48 28° ★ 28'36 30.81251 AU min. Earth dist. -1421 Sep 19 j 00:39 13° ★ 49'28 28.81442 AU morning rise -1414 Apr 17 j 15:50 29° ★ 02'54 40'25 direct -1421 Dec 06 j 03:51 12° ★ 24'20 -1414 May 15 j 20:02 0° ❤ -1414 May 15 j 20:02 0° ❤ evening set -1420 Mar 02 j 02:41 14° ★ 17'55 retrograde -1414 Jul 17 j 23:29 1° ❤01'38 conjunction -1420 Mar 18 j 00:31 14° ★ 53'31 -1° 53'45 opposition -1414 Oct 05 j 07:27 29° ★ 36'21 -2°08'30 minimum elong -1420 Mar 18 j 00:31 14° ★ 53'31 1° 53'45 min. Earth dist. -1414 Oct 04 j 14:39 29° ★ 37'32 28.81301 AU								
morning rise -1421 Apr 01 j 11:52 13° χ 14'15 conjunction -1414 Apr 01 j 12:28 28° χ 26'52 -1°59'56 retrograde -1421 Jul 02 j 01:48 15° χ 13'24 minimum elong -1414 Apr 01 j 12:28 28° χ 26'52 1°59'57 opposition -1421 Sep 19 j 22:21 13° χ 47'56 -2°00'47 max. Earth dist. -1414 Apr 02 j 06:48 28° χ 28'36 30.81251 AU min. Earth dist. -1421 Sep 19 j 00:39 13° χ 49'28 28.81442 AU morning rise -1414 Apr 17 j 15:50 29° χ 02'54 40'55'31 29° χ 24'20 -1414 Apr 17 j 15:50 29° χ 02'54 40'55'31 -12° χ 24'20 -1414 Apr 17 j 15:50 29° χ 02'54 40° χ 02'54					evening set	1717 Widi 10 J 12.00	21 NJ100	
retrograde -1421 Jul 02 j 01:48 15° + 13'24 minimum elong -1414 Apr 01 j 12:28 28° + 26'52 1°59'57 opposition -1421 Sep 19 j 22:21 13° + 47'56 -2°00'47 max. Earth dist1414 Apr 02 j 06:48 28° + 28'36 30.81251 AU min. Earth dist1421 Sep 19 j 00:39 13° + 49'28 28.81442 AU morning rise -1414 Apr 17 j 15:50 29° + 60'52 4 direct -1421 Dec 06 j 03:51 12° + 24'20 retrograde -1414 May 15 j 20:02 0° γ evening set -1420 Mar 02 j 02:41 14° + 17'55 retrograde -1414 Jul 17 j 23:29 1° γ 01'38 conjunction -1420 Mar 18 j 00:31 14° + 53'31 -1°53'45 opposition -1414 Oct 05 j 07:27 29° + 36'21 -2°08'30 min. Earth dist1414 Oct 04 j 14:39 29° + 37'32 28.81301 AU				50.01500 AU	conjunction	-1/1// Apr 01: 12:20	280¥26152	-1050/56
opposition -1421 Sep 19 j 22:21 13° \(\) \(\) \(47'56 \) -2°00'47 max. Earth dist. -1414 Apr 02 j 06:48 28° \(\) \(28'36 \) 30.81251 AU min. Earth dist. -1421 Sep 19 j 00:39 13° \(\) \(\) \(49'28 \) 28.81442 AU morning rise -1414 Apr 17 j 15:50 29° \(\) \(\) (2'54 \) direct -1421 Dec 06 j 03:51 12° \(\) \(24'20 \) retrograde -1414 Apr 17 j 15:50 29° \(\) \(\) (0'\$Y evening set -1420 Mar 02 j 02:41 14° \(\) \(\) 17'55 retrograde -1414 Jul 17 j 23:29 1° \(\) \(\) 0'138 conjunction -1420 Mar 18 j 00:31 14° \(\) \(\) 53'31 -1° 53'45 opposition -1414 Oct 05 j 07:27 29° \(\) 36'21 -2°08'30 minimum elong -1420 Mar 18 j 00:31 14° \(\) \(\) 53'31 1° 53'45 min. Earth dist. -1414 Oct 04 j 14:39 29° \(\) \(37'32 \) 28.81301 AU	-				-			
min. Earth dist.	-			2000/47	•			
direct								30.61231 AU
evening set				20.01442 AU	morning rise			
-1414 Sep 21 j 04:51 30°R ★ conjunction -1420 Mar 18 j 00:31 14° ★ 53'31 -1°53'45 opposition -1414 Oct 05 j 07:27 29° ★ 36'21 -2°08'30 min imum elong -1420 Mar 18 j 00:31 14° ★ 53'31 1°53'45 min. Earth dist1414 Oct 04 j 14:39 29° ★ 37'32 28.81301 AU		•			, ,			
conjunction -1420 Mar 18 j 00:31 14°¥53'31 -1°53'45 opposition -1414 Oct 05 j 07:27 29°¥36'21 -2°08'30 minimum elong -1420 Mar 18 j 00:31 14°¥53'31 1°53'45 min. Earth dist. -1414 Oct 04 j 14:39 29°¥37'32 28.81301 AU	evening set	-1420 Mar 02 J 02:41	14° 大 17'55		retrograde			
minimum elong -1420 Mar 18 j 00:31 14° ¥53'31 1°53'45 min. Earth dist1414 Oct 04 j 14:39 29° ¥37'32 28.81301 AU		142035 10:000	1.40 1/ 52/25	1052145	•.•			2000120
· · · · · · · · · · · · · · · · · · ·	·					-		
max. Earth dist. $-1420 \text{ Mar } 18 \text{ j } 23:43 + 14^{\circ} \pi 55'42 + 30.81321 \text{ AU}$ direct $-1414 \text{ Dec } 21 \text{ j } 14:54 + 28^{\circ} \pi 12'29$		·						28.81301 AU
	max. Earth dist.	-1420 Mar 18 j 23:43	14° 大 55'42	30.81321 AU	airect	-1414 Dec 21 j 14:54	28° 大 12'29	

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1413 in astronomical counting style is the year 1414 BCE in historical counting style. $0^{\circ}\Upsilon$ -1413 Mar 16 j 02:26 retrograde -1407 Aug 02 j 18:28 16°\bar{46'12} -1413 Mar 19 j 01:49 0°Y06'28 -1407 Oct 20 j 13:11 15°**Y**21'06 -2°06'40 opposition evening set min. Earth dist. -1407 Oct 20 j 00:17 15°**Y**22'01 28.82528 AU -1413 Apr 04 j 02:45 0°Y42'14 -2°00'20 -1406 Jan 06 j 02:10 13°Y56'55 conjunction direct -1406 Apr 04 j 02:19 -1413 Apr 04 j 02:44 0°**Υ**42'14 2°00'21 15°Y51'20 minimum elong evening set 0°**Υ**43'59 30.81060 AU -1413 Apr 04 j 21:26 max. Earth dist. 1°**Y**18'16 -1413 Apr 20 j 06:17 16°**Y**27'15 -1°57'59 morning rise conjunction -1406 Apr 20 j 06:06 3°**Y**16'53 16°**Y**27'15 1°57'59 -1413 Jul 20 j 10:53 -1406 Apr 20 j 06:07 retrograde minimum elong 1° **Y**51'34 -2°08'50 -1406 Apr 20 j 20:57 opposition -1413 Oct 07 j 18:46 max. Earth dist. 16°**Y**28'38 30.82684 AU 17°**Y**′03′22 min. Earth dist. -1413 Oct 07 j 02:56 1°**Υ**52'42 28.81124 AU morning rise -1406 May 06 j 11:38 -1406 Aug 05 j 06:16 19°**Y**01'14 direct -1413 Dec 24 j 02:31 0° Y27'37 retrograde 2°Y21'39 -1406 Oct 22 j 11:36 17°**Ƴ**37'07 28.83105 AU evening set -1412 Mar 20 j 15:33 min. Earth dist. -1406 Oct 23 j 00:00 17°**Y**36'14 -2°05'36 opposition conjunction -1412 Apr 05 j 16:48 2°Y57'25 -2°00'33 direct -1405 Jan 08 j 14:42 16°**Y**12'03 minimum elong -1412 Apr 05 j 16:48 2° Y57'25 2°00'33 evening set -1405 Apr 06 j 16:36 18°Y06'33 max. Earth dist. -1412 Apr 06 j 10:08 2°Υ59'02 30.80920 AU morning rise -1412 Apr 21 j 20:45 3°Y33'27 conjunction -1405 Apr 22 j 20:36 18°Y42'30 -1°56'55 retrograde -1412 Jul 22 j 00:18 5°**Y**31'57 minimum elong -1405 Apr 22 j 20:36 18°Y42'30 1°56'54 opposition -1412 Oct 09 j 05:54 4°Υ06'38 -2°08'58 max. Earth dist. -1405 Apr 23 j 09:15 18°**Y**43'41 30.83259 AU min. Earth dist. -1412 Oct 08 j 13:55 4°**Υ**07'46 28.81028 AU morning rise -1405 May 09 j 02:32 19°**Y**18'37 direct -1412 Dec 25 j 13:58 2°Y42'36 retrograde -1405 Aug 07 j 19:27 21°Y16'24 evening set -1411 Mar 23 i 05:16 4°Y36'39 opposition -1405 Oct 25 i 11:00 19°Y'51'28 -2°04'22 min. Earth dist. -1405 Oct 24 i 23:36 19°**Υ**52'17 28.83659 AU conjunction -1411 Apr 08 i 06:56 5°Υ12'27 -2°00'36 direct -1404 Jan 11 i 01:09 18°**Y**27'16 -1411 Apr 08 i 06:56 5°Υ12'27 2°00'35 evening set -1404 Apr 08 j 06:44 20°**Y**21′52 minimum elong -1411 Apr 09 j 00:14 5°Υ14'04 30.80871 AU max. Earth dist. -1411 Apr 24 j 11:07 5°**Y**48'30 -1404 Apr 24 j 11:13 20°**Y**57'49 -1°55'40 morning rise conjunction -1411 Jul 24 j 12:07 7°**Y**46′53 -1404 Apr 24 j 11:13 20°Υ57'49 1°55'39 retrograde minimum elong -1411 Oct 11 j 17:05 6°**Y**21'33 -2°08'54 -1404 Apr 24 j 23:51 20°Υ59'00 30.83770 AU max. Earth dist. opposition -1404 May 10 j 17:10 -1411 Oct 11 j 02:20 6°**Υ**22'36 28.81047 AU 21°Y33'57 min. Earth dist. morning rise -1411 Dec 28 j 02:22 -1404 Aug 09 j 06:56 23°Y31'37 4° Y 57'27 retrograde direct $22^{\circ}\Upsilon06'46 - 2^{\circ}02'56$ -1410 Mar 25 j 18:53 6°Y51'34 opposition -1404 Oct 26 j 21:58 evening set -1404 Oct 26 j 11:55 22°Υ07'29 28.84124 AU min. Earth dist. 7°**Y**27'23 -2°00'26 -1410 Apr 10 j 21:01 -1403 Jan 12 j 12:19 20°**Y**42'32 conjunction direct -1410 Apr 10 j 21:02 -1403 Apr 10 j 20:59 22°**Y**37'10 minimum elong 7°**Υ**27'23 2°00'26 evening set 7°**Υ**28'56 30.80970 AU -1410 Apr 11 j 13:45 max. Earth dist. -1410 Apr 27 j 01:32 8°Y03'26 -1403 Apr 27 j 01:43 23°**Y**13'09 -1°54'14 morning rise conjunction retrograde -1410 Jul 27 j 02:07 10°**Y**′01′42 minimum elong -1403 Apr 27 j 01:43 23°**Y**13'09 1°54'14 -1410 Oct 14 j 04:07 8°Y36'24 -2°08'38 max. Earth dist. -1403 Apr 27 j 12:18 23°Υ14'08 30.84210 AU opposition min. Earth dist. -1410 Oct 13 j 12:48 8°**Υ**37'29 28.81213 AU morning rise -1403 May 13 j 08:03 23°**Y**49′18 -1410 Dec 30 j 15:31 7°**Υ**12'15 retrograde -1403 Aug 11 j 19:42 25°**Y**46'49 direct -1409 Mar 28 j 08:46 9°Y06'25 -1403 Oct 29 j 08:47 24°**Y**'22'01 -2°01'19 evening set opposition min. Earth dist. -1403 Oct 28 j 23:05 24°Υ22'42 28.84525 AU -1409 Apr 13 j 11:14 9°Y42'15 -2°00'06 -1402 Jan 14 j 23:40 22°Y57'43 conjunction direct -1409 Apr 13 j 11:14 9°**Υ**42'15 2°00'05 -1402 Apr 13 j 11:08 24°Y52'25 minimum elong evening set -1409 Apr 14 i 03:12 9°**Υ**43'45 30.81204 AU max. Earth dist. -1409 Apr 29 j 16:04 -1402 Apr 29 i 16:19 25°Y28'24 -1°52'38 morning rise 10°**Y**18′19 conjunction -1409 Jul 29 i 14:42 -1402 Apr 29 i 16:19 retrograde 12°Υ16'29 minimum elong 25°Υ28'24 1°52'38 opposition -1409 Oct 16 i 15:09 10°**Υ**51'14 -2°08'11 max. Earth dist. -1402 Apr 30 i 02:21 25°Υ29'21 30.84575 AU min. Earth dist. -1409 Oct 16 i 01:19 10°Υ′52'13 28.81527 AU morning rise -1402 May 15 i 22:47 26°**Y**′04'33 -1408 Jan 02 j 02:29 9°Y27'03 retrograde -1402 Aug 14 j 06:30 28°Y01'55 direct -1408 Mar 29 j 22:32 11°**Υ**21'17 -1402 Oct 31 j 19:41 26°**Y**37′09 -1°59′31 evening set opposition min. Earth dist. -1402 Oct 31 j 11:45 26°**Y**37'43 28.84861 AU 25°**Y**12'47 conjunction -1408 Apr 15 j 01:32 11°Υ57'09 -1°59'35 direct -1401 Jan 17 j 12:17 27°**Y**′07'32 minimum elong -1408 Apr 15 j 01:32 11°**Υ**57'09 1°59'35 evening set -1401 Apr 16 j 01:21 max. Earth dist. -1408 Apr 15 j 17:37 11°Υ58'39 30.81599 AU 27°**Y**43'32 -1°50'53 -1408 May 01 j 06:33 12°\partial 33'14 conjunction -1401 May 02 j 06:53 morning rise -1408 Jul 31 j 04:51 14° **Y**31'17 -1401 May 02 j 06:53 27°**Y**43'32 1°50'52 retrograde minimum elong -1408 Oct 17 j 11:54 13°**Y**07'07 28.81976 AU -1401 May 02 j 15:33 27°**Y**44'20 30.84914 AU min. Earth dist. max. Earth dist. 13°Y06'06 -2°07'31 -1401 May 18 j 13:35 28° Y 19'40 opposition -1408 Oct 18 j 02:06 morning rise 11°**Y**41'56 -1401 Jul 15 j 23:07 0°B direct -1407 Jan 03 j 15:38 evening set -1407 Apr 01 j 12:22 13°**Y**36′15 retrograde -1401 Aug 16 j 19:34 0°**8**16'52 -1401 Sep 18 j 00:25 30°**₹**Υ conjunction -1407 Apr 17 j 15:35 14°**Y**12'08 -1°58'53 opposition -1401 Nov 03 j 06:13 28°**Y**52'08 -1°57'32 minimum elong -1407 Apr 17 j 15:35 14°**Y**12′08 1°58'52 min. Earth dist. -1401 Nov 02 j 22:13 28°**Y**′52'42 28.85190 AU -1407 Apr 18 j 06:13 14°**Υ**13'30 30.82106 AU -1400 Jan 20 j 01:19 27° Y 27'41 max. Earth dist. direct -1407 May 03 j 21:01 14°**Y**48'14 -1400 Apr 17 j 15:33 29°Y22'28 morning rise evening set

Planetary Phenomena of Neptune from -1900 through -1398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 40

Attention, astronomical year style is used: The year -1400 in astronomical counting style is the year 1401 BCE in historical counting style.

conjunction	-1400 May 03 j 21:20	29° Υ ′58'29 -1°48'57
minimum elong	-1400 May 03 j 21:20	29° Υ ′58'29 1°48'56
max. Earth dist.	-1400 May 04 j 05:02	29° Υ 59'12 30.85255 AU
	-1400 May 04 j 13:34	0° 8
morning rise	-1400 May 20 j 04:13	0° ႘ 34'38
retrograde	-1400 Aug 18 j 07:20	2° 8 31'40
opposition	-1400 Nov 04 j 16:58	1°806'56 -1°55'23
min. Earth dist.	-1400 Nov 04 j 10:41	1° と 07'23 28.85562 AU
	-1400 Dec 19 j 23:16	30° ₹ Υ
direct	-1399 Jan 21 j 12:40	29° Ƴ 42′25
	-1399 Feb 22 j 20:55	0° 8
evening set	-1399 Apr 20 j 05:24	1° 8 37'14
conjunction	-1399 May 06 j 11:37	2° 8 13'16 -1°46'52
minimum elong	-1399 May 06 j 11:37	2° 8 13'16 1°46'50
max. Earth dist.	-1399 May 06 j 19:05	2°813'57 30.85674 AU
morning rise	-1399 May 22 j 18:38	2° 8 49'24
retrograde	-1399 Aug 20 j 20:46	4° 8 46'15
opposition	-1399 Nov 07 j 03:28	3° 8 21'34 -1°53'04
min. Earth dist.	-1399 Nov 06 j 21:02	3° 8 22'01 28.86017 AU
	,	