Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1 Attention, astronomical year style is used: The year -9900 in astronomical counting style is the year 9901 BCE in historical counting style.									
		-				ounting style. 15° ∏ 34'49	2020127		
opposition	-9900 Feb 01 j 17:27	1° Ⅱ 28'47		conjunction	-9894 Aug 18 j 08:03		2°30'27		
min. Earth dist.	-9900 Feb 02 j 04:42		29.32372 AU	minimum elong	-9894 Aug 18 j 08:02	15° Ⅱ 34'49	2°31'01		
direct	-9900 Apr 22 j 22:27	0° Ⅱ 04'54		max. Earth dist.	-9894 Aug 18 j 04:28		31.31413 AU		
evening set	-9900 Jul 21 j 01:32	1° Ⅱ 59'57		morning rise	-9894 Sep 02 j 07:24	16° Ⅱ 08'33			
				retrograde	-9894 Nov 29 j 12:11	18° Ⅲ 03'10			
conjunction	-9900 Aug 05 j 03:40	2° Ⅱ 33'51		opposition	-9893 Feb 17 j 10:38	16° Ⅱ 40'34			
minimum elong	-9900 Aug 05 j 03:39	2° ∏ 33'51	2°16'03	min. Earth dist.	-9893 Feb 17 j 13:56		29.31599 AU		
max. Earth dist.	-9900 Aug 04 j 16:31		31.32056 AU	direct	-9893 May 09 j 04:02	15° Ⅱ 17'07			
morning rise	-9900 Aug 20 j 04:31	3° ∏ 07'40		evening set	-9893 Aug 05 j 17:06	17° Ⅱ 11'40			
retrograde	-9900 Nov 15 j 18:33	5° ∏ 01'24							
opposition	-9899 Feb 03 j 05:53	3° ∏ 39'02		conjunction	-9893 Aug 20 j 16:45	17° ∏ 45'25	2°32'13		
min. Earth dist.	-9899 Feb 03 j 15:26		29.32084 AU	minimum elong	-9893 Aug 20 j 16:45		2°32'45		
direct	-9899 Apr 25 j 09:44	2° ∏ 15'10		max. Earth dist.	-9893 Aug 20 j 13:03		31.31351 AU		
evening set	-9899 Jul 23 j 10:42	4° Ⅱ 10′07		morning rise	-9893 Sep 04 j 16:10	18° ∏ 19'10			
				retrograde	-9893 Dec 02 j 00:45	20° Ⅱ 13'56			
conjunction	-9899 Aug 07 j 12:31	4° ∏ 43'59		opposition	-9892 Feb 19 j 23:39	18° Ⅱ 51'19			
minimum elong	-9899 Aug 07 j 12:30	4° ∏ 43'59		min. Earth dist.	-9892 Feb 20 j 02:08		29.31499 AU		
max. Earth dist.	-9899 Aug 07 j 03:11		31.31768 AU	direct	-9892 May 10 j 14:49	17° Ⅱ 27'57			
morning rise	-9899 Aug 22 j 12:55	5° Ⅱ 17'47		evening set	-9892 Aug 07 j 02:13	19° Ⅱ 22'27			
retrograde	-9899 Nov 18 j 02:59	7° Ⅱ 11'37							
opposition	-9898 Feb 05 j 18:40	5° Ⅱ 49'11	2°29'32	conjunction	-9892 Aug 22 j 01:48	19° ∏ 56'12			
min. Earth dist.	-9898 Feb 06 j 04:01		29.31835 AU	minimum elong	-9892 Aug 22 j 01:47	19° Ⅱ 56'12			
direct	-9898 Apr 27 j 21:23	4° Ⅱ 25′20		max. Earth dist.	-9892 Aug 21 j 23:49		31.31176 AU		
evening set	-9898 Jul 25 j 19:47	6° Ⅱ 20'11		morning rise	-9892 Sep 06 j 00:56	20° Ⅱ 29'56			
				retrograde	-9892 Dec 03 j 11:01	22° Ⅱ 24'51			
conjunction	-9898 Aug 09 j 21:05	6° ∏ 54′02	2°21'20	opposition	-9891 Feb 21 j 12:36	21° ∏ 02'12	2°45'00		
minimum elong	-9898 Aug 09 j 21:04	6° ∏ 54′02	2°21'51	min. Earth dist.	-9891 Feb 21 j 14:50	21° Ⅱ 02'03	29.31256 AU		
max. Earth dist.	-9898 Aug 09 j 12:31	6° Ⅱ 53'13	31.31559 AU	direct	-9891 May 13 j 04:05	19° ∏ 38'54			
morning rise	-9898 Aug 24 j 21:18	7° Ⅱ 27'48		evening set	-9891 Aug 09 j 11:28	21° ∏ 33′21			
retrograde	-9898 Nov 20 j 13:53	9° Ⅱ 21'46							
opposition	-9897 Feb 08 j 07:20	7° Ⅱ 59'16	2°32'25	conjunction	-9891 Aug 24 j 10:43	22° Ⅱ 07'05	2°35'04		
min. Earth dist.	-9897 Feb 08 j 14:24		29.31675 AU	minimum elong	-9891 Aug 24 j 10:42	22° Ⅱ 07'05	2°35'36		
direct	-9897 Apr 30 j 08:13	6° Ⅱ 35′28		max. Earth dist.	-9891 Aug 24 j 08:29	22° Ⅱ 06'53	31.30866 AU		
evening set	-9897 Jul 28 j 04:53	8° Ⅱ 30′14		morning rise	-9891 Sep 08 j 09:56	22° Ⅱ 40′50			
				retrograde	-9891 Dec 05 j 23:47	24° Ⅱ 35'54			
conjunction	-9897 Aug 12 j 05:51	9° Ⅱ 04'03	2°23'56	opposition	-9890 Feb 24 j 01:41	23° Ⅱ 13'12	2°46'17		
minimum elong	-9897 Aug 12 j 05:50	9° Ⅱ 04'03	2°24'26	min. Earth dist.	-9890 Feb 24 j 02:24	23° Ⅱ 13′09	29.30875 AU		
max. Earth dist.	-9897 Aug 11 j 22:35	9° Ⅱ 03′22	31.31435 AU	direct	-9890 May 15 j 15:20	21° Ⅱ 49'57			
morning rise	-9897 Aug 27 j 05:49	9° Ⅱ 37'49		evening set	-9890 Aug 11 j 20:28	23° ∏ 44'19			
retrograde	-9897 Nov 23 j 00:49	11° Ⅱ 31′56							
opposition	-9896 Feb 10 j 20:03	10° Ⅱ 09′23	2°35'04	conjunction	-9890 Aug 26 j 19:40	24° ∏ 18′02	2°36'09		
min. Earth dist.	-9896 Feb 11 j 03:00	10° Ⅱ 08'55	29.31610 AU	minimum elong	-9890 Aug 26 j 19:39	24° Ⅱ 18′02			
direct	-9896 May 01 j 17:31	8° Ⅱ 45'39		max. Earth dist.	-9890 Aug 26 j 18:46	24° ∏ 17'57	31.30400 AU		
evening set	-9896 Jul 29 j 13:54	10° ∏ 40′21		morning rise	-9890 Sep 10 j 18:47	24° ∏ 51'48			
				retrograde	-9890 Dec 08 j 08:54	26° ∏ 47′00			
conjunction	-9896 Aug 13 j 14:34	11° Ⅱ 14′09	2°26'19	opposition	-9889 Feb 26 j 14:56	25° Ⅱ 24'13			
minimum elong	-9896 Aug 13 j 14:34	11° Ⅱ 14′09	2°26'51	min. Earth dist.	-9889 Feb 26 j 15:50	25° Ⅱ 24'10	29.30341 AU		
max. Earth dist.	-9896 Aug 13 j 08:43	11° Ⅱ 13'36	31.31408 AU	direct	-9889 May 18 j 03:13	24° Ⅱ 01′00			
morning rise	-9896 Aug 28 j 14:19	11° ∏ 47'54		evening set	-9889 Aug 14 j 05:35	25° Ⅱ 55'16			
retrograde	-9896 Nov 24 j 12:13	13° Ⅱ 42'10							
opposition	-9895 Feb 12 j 08:45	12° Ⅱ 19'36	2°37'31	conjunction	-9889 Aug 29 j 04:38	26° Ⅱ 28'59	2°37'02		
min. Earth dist.	-9895 Feb 12 j 13:39	12° Ⅱ 19'16	29.31604 AU	minimum elong	-9889 Aug 29 j 04:38	26° Ⅱ 28'59	2°37'36		
direct	-9895 May 04 j 05:48	10° Ⅱ 55'58		max. Earth dist.	-9889 Aug 29 j 04:14	26° Ⅱ 28'57	31.29810 AU		
evening set	-9895 Jul 31 j 22:57	12° Ⅱ 50'37		morning rise	-9889 Sep 13 j 03:51	27° Ⅱ 02'45			
				retrograde	-9889 Dec 10 j 20:02	28° ∏ 58′04			
conjunction	-9895 Aug 15 j 23:10	13° Ⅱ 24′24	2°28'30	opposition	-9888 Feb 29 j 03:47	27° Ⅲ 35′12	2°48'09		
minimum elong	-9895 Aug 15 j 23:10	13° ∐ 24′24	2°29'02	min. Earth dist.	-9888 Feb 29 j 02:54	27° Ⅲ 35′16	29.29695 AU		
max. Earth dist.	-9895 Aug 15 j 17:44	13° Ⅱ 23'53	31.31409 AU	direct	-9888 May 19 j 14:23	26° Ⅱ 12'00			
morning rise	-9895 Aug 30 j 22:49	13° Ⅲ 58′08		evening set	-9888 Aug 15 j 14:35	28° Ⅱ 06'09			
retrograde	-9895 Nov 27 j 01:21	15° ∏ 52'34		-	- *				
opposition	-9894 Feb 14 j 21:41	14° Ⅱ 29'59	2°39'44	conjunction	-9888 Aug 30 j 13:32	28° Ⅱ 39'53	2°37'41		
min. Earth dist.	-9894 Feb 15 j 02:10	14° Ⅱ 29'41	29.31621 AU	minimum elong	-9888 Aug 30 j 13:32	28° Ⅱ 39'53	2°38'16		
direct	-9894 May 06 j 15:47	13° Ⅱ 06′27		max. Earth dist.	-9888 Aug 30 j 13:56		31.29114 AU		
evening set	-9894 Aug 03 j 07:58	15° Ⅱ 01'03		morning rise	-9888 Sep 14 j 12:51	29° Ⅱ 13'39			
-				-	-9888 Oct 06 j 18:09	0ಂತಾ			
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	omena of Neptune 1						page 2
	nical year style is used: Th		in astronomical co				
retrograde	-9888 Dec 12 j 07:02	1° © 09'05		conjunction	-9881 Sep 15 j 04:00	13° © 55'54	2°35'53
	-9887 Feb 22 j 01:14	30°Ŗ Ⅱ		minimum elong	-9881 Sep 15 j 04:01	13° © 55'55	2°36'27
opposition	-9887 Mar 02 j 16:54	29° Ⅱ 46′07	2°48'44	max. Earth dist.	-9881 Sep 15 j 12:19	13° © 56'42	31.25167 AU
min. Earth dist.	-9887 Mar 02 j 16:09		29.28981 AU	morning rise	-9881 Sep 30 j 04:41	14° © 29'50	
direct	-9887 May 22 j 00:09	28° Ⅱ 22'56		retrograde	-9881 Dec 28 j 18:25	16° 5 26'11	
	-9887 Aug 10 j 04:12	0 \circ \odot		opposition	-9880 Mar 18 j 11:57	15° © 02'47	2°45'58
evening set	-9887 Aug 17 j 23:22	0° © 16'58		min. Earth dist.	-9880 Mar 18 j 03:37	15° © 03'21	29.25135 AU
				direct	-9880 Jun 06 j 07:10	13° © 39'54	
conjunction	-9887 Sep 01 j 22:20	0°950'41	2°38'06	evening set	-9880 Sep 01 j 13:40	15° © 33'24	
minimum elong	-9887 Sep 01 j 22:20	0°950'41	2°38'41				
max. Earth dist.	-9887 Sep 02 j 00:17		31.28392 AU	conjunction	-9880 Sep 16 j 13:16	16° © 07'12	
morning rise	-9887 Sep 16 j 21:39	1° 5 24'28		minimum elong	-9880 Sep 16 j 13:16	16° © 07'12	
retrograde	-9887 Dec 14 j 18:14	3°520'01		max. Earth dist.	-9880 Sep 16 j 22:11	16° © 08'03	31.24635 AU
opposition	-9886 Mar 05 j 05:54	1° 9 56'57	2°49'04	morning rise	-9880 Oct 01 j 14:17	16° 5 41'09	
min. Earth dist.	-9886 Mar 05 j 03:04	1° 9 57'09	29.28261 AU	retrograde	-9880 Dec 30 j 06:37	18° © 37'39	
direct	-9886 May 24 j 12:36	0° © 33'46		opposition	-9879 Mar 21 j 01:01	17° © 14'12	2°44'36
evening set	-9886 Aug 20 j 08:20	2° 5 27'43		min. Earth dist.	-9879 Mar 20 j 14:58	17° © 14'53	29.24542 AU
				direct	-9879 Jun 08 j 18:43	15° © 51'22	
conjunction	-9886 Sep 04 j 07:08	3° © 01'25	2°38'18	evening set	-9879 Sep 03 j 22:44	17° 5 544'48	
minimum elong	-9886 Sep 04 j 07:08	3° © 01'25	2°38'54				
max. Earth dist.	-9886 Sep 04 j 09:26	3° 5 01'38	31.27693 AU	conjunction	-9879 Sep 18 j 22:29	18° © 18'37	2°33'19
morning rise	-9886 Sep 19 j 06:42	3° 5 35'13		minimum elong	-9879 Sep 18 j 22:29	18° © 18'37	2°33'53
retrograde	-9886 Dec 17 j 07:27	5° © 30'54		max. Earth dist.	-9879 Sep 19 j 07:52	18° © 19'31	31.23974 AU
opposition	-9885 Mar 07 j 18:57	4° 5 07'44	2°49'10	morning rise	-9879 Oct 03 j 23:54	18° 9 52'36	
min. Earth dist.	-9885 Mar 07 j 15:31	4° © 07'58	29.27610 AU	retrograde	-9878 Jan 01 j 18:14	20°549'14	
direct	-9885 May 26 j 21:47	2°5944'34		opposition	-9878 Mar 23 j 14:20	19° © 25'43	2°43'00
evening set	-9885 Aug 22 j 17:03	4°538'25		min. Earth dist.	-9878 Mar 23 j 04:40	19°526'23	29.23818 AU
				direct	-9878 Jun 11 j 04:49	18° © 02'55	
conjunction	-9885 Sep 06 j 16:04	5°512'09	2°38'17	evening set	-9878 Sep 06 j 07:51	19° 9 56'16	
minimum elong	-9885 Sep 06 j 16:04	5°512'09	2°38'51				
max. Earth dist.	-9885 Sep 06 j 20:32	5°512'34	31.27078 AU	conjunction	-9878 Sep 21 j 08:00	20°530'06	2°31'43
morning rise	-9885 Sep 21 j 15:40	5°9345'57		minimum elong	-9878 Sep 21 j 08:00	20°530'06	2°32'17
retrograde	-9885 Dec 19 j 18:11	7°9541'45		max. Earth dist.	-9878 Sep 21 j 18:35	20°531'07	31.23187 AU
opposition	-9884 Mar 09 j 07:54	6°€18'32	2°49'01	morning rise	-9878 Oct 06 j 09:44	21°504'08	
min. Earth dist.	-9884 Mar 09 j 02:55	6°9318'52	29.27027 AU	retrograde	-9877 Jan 04 j 05:42	23°500'53	
direct	-9884 May 28 j 09:29	4°955'24		opposition	-9877 Mar 26 j 03:24	21°537'17	2°41'10
evening set	-9884 Aug 24 j 02:00	6°5549'11		min. Earth dist.	-9877 Mar 25 j 16:11	21°538'03	29.22948 AU
				direct	-9877 Jun 13 j 16:44	20°514'29	
conjunction	-9884 Sep 08 j 00:54	7°522'54	2°38'01	evening set	-9877 Sep 08 j 17:03	22°507'45	
minimum elong	-9884 Sep 08 j 00:54	7° 5 22'54	2°38'36				
max. Earth dist.	-9884 Sep 08 j 05:29	7°523'20	31.26541 AU	conjunction	-9877 Sep 23 j 17:23	22°5941'37	2°29'53
morning rise	-9884 Sep 23 j 00:51	7°956'44		minimum elong	-9877 Sep 23 j 17:24	22°5541'37	2°30'26
retrograde	-9884 Dec 21 j 07:30	9° © 52'40		max. Earth dist.	-9877 Sep 24 j 03:40	22°5542'35	31.22251 AU
opposition	-9883 Mar 11 j 20:47	8°529'23	2°48'38	morning rise	-9877 Oct 08 j 19:45	23°515'40	
min. Earth dist.	-9883 Mar 11 j 14:39	8°9529'48	29.26532 AU	retrograde	-9876 Jan 06 j 18:47	25°512'32	
direct	-9883 May 30 j 20:03	7° 5 06′18		opposition	-9876 Mar 27 j 16:34	23°5548'50	2°39'05
evening set	-9883 Aug 26 j 10:46	9° 5 00'01		min. Earth dist.	-9876 Mar 27 j 05:21	23° © 49'35	29.21949 AU
				direct	-9876 Jun 15 j 01:57	22° © 26'02	
conjunction	-9883 Sep 10 j 09:55	9° © 33'46	2°37'32	evening set	-9876 Sep 10 j 02:04	24° © 19'11	
minimum elong	-9883 Sep 10 j 09:55	9° © 33'46	2°38'07				
max. Earth dist.	-9883 Sep 10 j 16:39	9° 5 34'24	31.26071 AU	conjunction	-9876 Sep 25 j 02:54	24°953'05	2°27'50
morning rise	-9883 Sep 25 j 09:56	10° 5 07'37		minimum elong	-9876 Sep 25 j 02:54	24°553'05	2°28'24
retrograde	-9883 Dec 23 j 19:05	12° © 03'42		max. Earth dist.	-9876 Sep 25 j 14:54	24°554'13	31.21200 AU
opposition	-9882 Mar 14 j 09:53	10°5940'22	2°47'59	morning rise	-9876 Oct 10 j 05:32	25°527'11	
min. Earth dist.	-9882 Mar 14 j 03:02	10°540'50	29.26076 AU	retrograde	-9875 Jan 08 j 05:50	27°524'07	
direct	-9882 Jun 02 j 08:47	9° © 17'22		opposition	-9875 Mar 30 j 05:31	26°500'20	2°36'48
evening set	-9882 Aug 28 j 19:38	11°5911'00		min. Earth dist.	-9875 Mar 29 j 17:12	26°501'10	29.20847 AU
-	- •			direct	-9875 Jun 17 j 13:45	24° © 37'31	
conjunction	-9882 Sep 12 j 18:48	11° © 44'45	2°36'50	evening set	-9875 Sep 12 j 11:12	26°930'34	
minimum elong	-9882 Sep 12 j 18:48	11° 5 44'45	2°37'25	-	- •		
max. Earth dist.	-9882 Sep 13 j 01:46		31.25636 AU	conjunction	-9875 Sep 27 j 12:14	27° © 04'29	2°25'35
morning rise	-9882 Sep 27 j 19:15	12°5518'38		minimum elong	-9875 Sep 27 j 12:15	27°504'30	
retrograde	-9882 Dec 26 j 08:20	14°9514'52		max. Earth dist.	-9875 Sep 28 j 00:08		31.20093 AU
opposition	-9881 Mar 16 j 22:57	12° © 51'30	2°47'06	morning rise	-9875 Oct 12 j 15:33	27°538'38	
min. Earth dist.	-9881 Mar 16 j 14:25		29.25634 AU	retrograde	-9874 Jan 10 j 19:42	29° © 35'40	
direct	-9881 Jun 04 j 19:27	11°528'33		opposition	-9874 Apr 01 j 18:33	28°©11'45	2°34'16
evening set	-9881 Aug 31 j 04:36	13°9522'08		min. Earth dist.	-9874 Apr 01 j 05:22		29.19738 AU
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Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9874 in astronomical counting style is the year 9875 BCE in historical counting style. -9874 Jun 20 j 00:16 26°9548'55 minimum elong -9868 Oct 12 i 07:39 12°Ω25'32 2°04'32 direct 12°**Ω**27'17 31.14125 AU -9874 Sep 14 j 20:06 -9868 Oct 13 j 02:09 28°9541'52 max. Earth dist. evening set -9868 Oct 27 j 15:09 13°Ω00'02 morning rise -9867 Jan 26 j 08:58 14°**Ω**57'50 -9874 Sep 29 j 21:41 29°515'50 2°23'07 conjunction retrograde -9874 Sep 29 j 21:42 -9867 Apr 17 j 12:25 minimum elong 29°515'50 2°23'39 opposition 13°**Ω**33'33 2°10'31 -9874 Sep 30 j 11:34 -9867 Apr 16 j 17:25 max. Earth dist. 29°517'09 31.18994 AU min. Earth dist. 13°**Ω**34'51 29.13921 AU -9867 Jul 05 j 03:51 -9874 Oct 15 j 01:24 morning rise 29°950'01 direct $12^{\circ}\Omega 10'57$ -9874 Oct 19 j 14:36 0° Ω evening set -9867 Sep 29 j 12:46 14°**Ω**03'30 retrograde -9873 Jan 13 j 07:39 1°**Ω**47'08 opposition -9873 Apr 04 j 07:32 0°**Ω**23'07 2°31'32 conjunction -9867 Oct 14 j 17:52 14°**Ω**37'46 2°00'12 14°**Ω**37'47 2°00'39 min. Earth dist. -9873 Apr 03 j 17:42 0°**Ω**24'03 29.18661 AU minimum elong -9867 Oct 14 j 17:53 -9867 Oct 15 j 13:58 -9873 Apr 18 j 17:08 30°Rூ max. Earth dist. 14°**Ω**39'41 31.13383 AU 29°900'17 -9867 Oct 24 j 13:13 direct -9873 Jun 22 j 12:42 15°€ -9873 Aug 22 j 06:59 $0^{\circ}\Omega$ morning rise -9867 Oct 30 j 01:53 15°**Ω**12'20 evening set -9873 Sep 17 j 05:15 0°**Ω**53'10 retrograde -9866 Jan 28 j 20:56 17°**Ω**10'14 min. Earth dist. -9866 Apr 19 j 05:23 15°**Ω**47'16 29.13125 AU conjunction -9873 Oct 02 j 07:11 1°**Ω**27'09 2°20'27 opposition -9866 Apr 20 j 01:13 15°**Ω**45'55 2°06'18 minimum elong -9873 Oct 02 j 07:11 1°**Ω**27'10 2°20'57 -9866 May 19 j 18:40 15°RΩ max. Earth dist. -9873 Oct 02 j 21:21 1°**Ω**28'30 31.17970 AU direct -9866 Jul 07 j 15:07 14°**Ω**23′20 morning rise -9873 Oct 17 j 11:32 2°**Ω**01'23 -9866 Aug 23 j 10:33 15°Ω retrograde -9872 Jan 15 j 20:59 3°N58'36 evening set -9866 Oct 01 j 22:27 16°**Ω**15'51 opposition -9872 Apr 05 j 20:12 2°Ω34'30 2°28'34 min. Earth dist. -9872 Apr 05 i 04:39 2°Ω35'33 29.17683 AU conjunction -9866 Oct 17 i 04:02 16°**Ω**50′09 1°56'10 -9872 Jun 23 i 23:06 1°Ω11'40 minimum elong -9866 Oct 17 i 04:02 16°**Ω**50′09 1°56'37 direct -9872 Sep 18 j 14:21 3°**Ω**04'29 max. Earth dist. -9866 Oct 17 j 23:33 16° **Ω**52'00 31.12549 AU evening set -9866 Nov 01 j 12:55 17°Ω24'47 morning rise -9872 Oct 03 j 16:45 3°Ω38'31 2°17'34 -9865 Jan 31 j 11:21 19°Ω22'46 retrograde conjunction -9872 Oct 03 j 16:45 -9865 Apr 22 j 14:06 17°Ω58'23 2°01'54 3°Ω38'31 2°18'05 minimum elong opposition -9872 Oct 04 j 08:18 3°**Ω**40'00 31.17041 AU -9865 Apr 21 j 17:59 17°**Ω**59'45 29.12228 AU max. Earth dist. min. Earth dist. -9872 Oct 18 j 21:38 4°Ω12'48 -9865 Jul 10 j 01:08 16°**Ω**35'48 direct morning rise -9871 Jan 17 j 07:47 6°**Ω**10′07 -9865 Oct 04 j 08:14 18°**Ω**28'15 retrograde evening set -9871 Apr 08 j 09:07 4°**Ω**45'58 2°25'23 opposition min. Earth dist. 4°**Ω**47'02 29.16805 AU -9865 Oct 19 j 14:32 19°**Ω**02'37 1°51'58 -9871 Apr 07 j 17:23 conjunction -9871 Jun 26 j 10:51 3°**£**23′11 -9865 Oct 19 j 14:33 19°**Ω**02'37 1°52'23 direct minimum elong -9871 Sep 20 j 23:19 -9865 Oct 20 j 11:16 19°**Ω**04'35 31.11588 AU evening set 5°**Ω**15'55 max. Earth dist. -9865 Nov 04 j 00:01 19°**Ω**37'18 morning rise -9871 Oct 06 j 02:14 5°**Ω**50'00 2°14'29 -9864 Feb 02 j 23:41 21°Ω35'21 conjunction retrograde -9871 Oct 06 j 02:15 5°**Ω**50'00 2°14'59 min. Earth dist. -9864 Apr 23 j 06:44 20°**Ω**12'15 29.11196 AU minimum elong max. Earth dist. -9871 Oct 06 j 18:55 5°**Ω**51'35 31.16232 AU opposition -9864 Apr 24 j 02:47 20°Ω10'53 1°57'19 -9871 Oct 21 j 07:42 6°**Ω**24'20 direct -9864 Jul 11 j 12:46 18°**Ω**48'18 morning rise retrograde -9870 Jan 19 j 20:53 8°**Ω**21'46 -9864 Oct 05 j 18:02 20°**Ω**40'40 evening set -9870 Apr 10 j 21:57 6°Ω57'34 2°21'59 opposition -9870 Apr 10 j 04:10 6°Ω58'46 29.16031 AU -9864 Oct 21 j 00:55 21°Ω15'05 1°47'36 min. Earth dist. conjunction -9870 Jun 28 j 22:28 5°**Ω**34'49 -9864 Oct 21 j 00:56 21° Ω 15'05 1°48'02 direct minimum elong -9870 Sep 23 j 08:35 7°**Ω**27'31 -9864 Oct 21 j 21:23 21°Ω17'01 31.10523 AU evening set max. Earth dist. -9864 Nov 05 j 11:12 21°Ω49'49 morning rise -9870 Oct 08 i 11:55 8°Ω01'39 2°11'12 conjunction retrograde -9863 Feb 04 i 13:33 23°Ω47'55 minimum elong -9870 Oct 08 i 11:56 8°Ω01'39 2°11'43 opposition $-9863 \text{ Apr } 26 \text{ j } 15:30 \quad 22^{\circ} \Omega 23'21 \quad 1^{\circ}52'34$ max. Earth dist. -9870 Oct 09 i 05:13 8°Ω03'17 31.15499 AU min. Earth dist. -9863 Apr 25 j 18:23 $22^{\circ}\Omega$ 24'48 29.10077 AU -9870 Oct 23 i 18:07 8°Ω36'02 direct -9863 Jul 13 j 23:15 21°Ω00'44 morning rise -9869 Jan 22 j 08:39 10°Ω33'36 -9863 Oct 08 j 03:43 22° Ω53'01 retrograde evening set -9869 Apr 13 j 10:49 9°Ω09'22 2°18'22 opposition -9869 Apr 12 j 17:18 9°**Ω**10'33 29.15327 AU -9863 Oct 23 j 11:15 $23^{\circ}\Omega 27'29$ 1°43'05 min. Earth dist. conjunction direct -9869 Jul 01 j 08:11 7°**Ω**46'40 minimum elong -9863 Oct 23 j 11:16 23°Ω27'29 1°43'28 evening set -9869 Sep 25 j 17:48 9°**Ω**39'19 max. Earth dist. -9863 Oct 24 j 08:32 23°**Ω**29'30 31.09375 AU -9863 Nov 07 j 22:16 24°**Ω**02'17 morning rise conjunction -9869 Oct 10 j 21:50 10° **Ω**13'29 2°07'44 -9862 Feb 07 j 01:43 26°**Ω**00′25 retrograde -9869 Oct 10 j 21:50 10°Ω13'29 2°08'12 -9862 Apr 28 j 07:31 24° **Ω**37'10 29.08909 AU minimum elong min. Earth dist. -9869 Oct 11 j 16:37 10°**Ω**15'16 31.14820 AU -9862 Apr 29 j 04:17 24°**Ω**35'45 1°47'39 max. Earth dist. opposition -9869 Oct 26 j 04:33 10°**Ω**47'56 -9862 Jul 16 j 11:38 23°**Ω**13′05 morning rise direct -9868 Jan 24 j 20:01 12°**Ω**45'36 -9862 Oct 10 j 13:33 25°**Ω**05'17 retrograde evening set -9868 Apr 14 j 23:32 11°**Ω**21'21 2°14'33 opposition min. Earth dist. -9868 Apr 14 j 04:26 11°**Ω**22'39 29.14637 AU conjunction -9862 Oct 25 j 21:49 25°**Ω**39'48 1°38'25 direct -9868 Jul 02 j 19:31 9°**£**58'43 minimum elong -9862 Oct 25 j 21:49 25°**Ω**39'48 1°38'48 evening set -9868 Sep 27 j 03:16 11°**Ω**51'19 max. Earth dist. -9862 Oct 26 j 19:51 25°**Ω**41'53 31.08225 AU -9862 Nov 10 j 09:33 26°**Ω**14'39 morning rise -9868 Oct 12 j 07:38 12° Ω 25'32 2°04'03 -9861 Feb 09 j 15:39 conjunction retrograde 28°**Ω**12'49

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9861 in astronomical counting style is the year 9862 BCE in historical counting style. -9861 May 01 j 16:41 26°Ω48'02 1°42'35 direct -9855 Jul 31 i 13:39 8° m 40'31 opposition -9861 Apr 30 j 18:23 26° **Ω**49'34 29.07767 AU evening set -9855 Oct 25 j 12:44 10° m 32'33 min. Earth dist. -9861 Jul 18 j 23:53 25°**Ω**25'20 direct 27°**Ω**17'29 -9855 Nov 10 j 01:42 -9861 Oct 12 j 23:31 11° m 07'26 1°01'58 evening set conjunction -9855 Nov 10 j 01:43 minimum elong 11°M)07'26 1°02'13 -9861 Oct 28 j 08:20 27°**Ω**52'02 1°33'36 conjunction max. Earth dist. -9855 Nov 11 j 03:26 11° mp 09'51 31.02444 AU -9861 Oct 28 j 08:21 minimum elong 27°**Ω**52'02 1°33'57 morning rise -9855 Nov 25 j 18:44 11° m 42'42 max. Earth dist. -9861 Oct 29 j 06:37 27°**Ω**54'09 31.07114 AU retrograde -9854 Feb 25 j 08:37 13°m/41'21 12° Mp 18'06 29.02158 AU morning rise -9861 Nov 12 j 20:55 28°**Ω**26'57 min. Earth dist. -9854 May 16 j 06:13 -9860 Jan 03 j 07:49 0° m opposition -9854 May 17 j 07:32 12°M) 16'21 1°03'10 retrograde -9860 Feb 12 j 03:09 0°m 25'09 direct -9854 Aug 02 j 23:38 10° m 53'44 -9854 Oct 27 j 23:36 -9860 Mar 23 j 21:49 30°R€ evening set 12° m/45'47 min. Earth dist. -9860 May 02 j 07:22 29°**Ω**01'48 29.06701 AU opposition -9860 May 03 j 05:15 29° Ω00'18 1°37'22 conjunction -9854 Nov 12 j 13:15 13° Tp 20'44 0°56'19 direct -9860 Jul 20 j 10:11 27°**Ω**37'34 minimum elong -9854 Nov 12 j 13:16 13° m 20'44 0°56'33 evening set -9860 Oct 14 j 09:19 29°**£**29'39 max. Earth dist. -9854 Nov 13 j 15:16 13°M23'11 31.01717 AU -9860 Oct 27 j 21:53 morning rise -9854 Nov 28 j 07:01 13° m 56'04 retrograde -9853 Feb 27 j 22:00 15° m 54'47 conjunction -9860 Oct 29 j 18:56 0° m 04'15 1°28'39 opposition -9853 May 19 j 19:50 14° m 29'45 0°57'03 minimum elong -9860 Oct 29 j 18:57 0° Mp 04'15 1°29'00 min. Earth dist. -9853 May 18 j 19:28 14° m/31'26 29.01381 AU max. Earth dist. -9860 Oct 30 j 18:44 0° Mp 06'30 31.06106 AU direct -9853 Aug 05 j 11:30 13° M 07'09 morning rise -9860 Nov 14 i 08:06 0°m/39'13 evening set -9853 Oct 30 i 10:34 14° m 59'13 retrograde -9859 Feb 13 i 14:39 2°m 37'29 opposition -9859 May 05 i 17:38 1° m 12'34 1°32'00 conjunction -9853 Nov 15 i 00:59 15° m 34'13 0°50'34 min. Earth dist. -9859 May 04 j 18:06 1° Mp 14'11 29.05740 AU -9853 Nov 15 i 01:00 15° m 34'13 0°50'46 minimum elong -9859 Jun 28 j 03:51 max. Earth dist. -9853 Nov 16 j 03:02 15° Mp 36'40 31.00898 AU 30°R € direct -9859 Jul 22 j 21:55 29°**Ω**49'50 -9853 Nov 30 j 19:25 morning rise 16° m 09'36 -9852 Mar 01 j 13:11 18° m 08'21 -9859 Aug 16 j 02:00 0° mb retrograde -9859 Oct 16 j 19:26 -9852 May 20 j 06:51 1° Mp 41'52 min. Earth dist. 16° Mp 45'03 29.00492 AU evening set -9852 May 21 j 08:07 16° Mp 43'18 0°50'52 opposition -9859 Nov 01 j 05:33 conjunction 2° m 16'32 1°23'33 -9852 Aug 06 j 23:57 15° m 20'41 direct -9859 Nov 01 j 05:34 -9852 Oct 31 j 21:35 2° m 16'32 1°23'53 17° m 12'44 minimum elong evening set -9859 Nov 02 j 05:04 2°Mp18'45 31.05215 AU max. Earth dist. -9859 Nov 16 j 19:39 2° m 51'33 -9852 Nov 16 j 12:33 17° mp 47'47 0°44'44 morning rise conjunction -9858 Feb 16 j 03:34 4° m/49'53 17° m 47'47 0°44'56 retrograde minimum elong -9852 Nov 16 j 12:33 3° Mp 26'32 29.04910 AU-9858 May 07 j 06:36 -9852 Nov 17 j 14:04 17° m 50'11 30.99948 AU min. Earth dist. max. Earth dist. 3° Tp 24'55 1°26'29 opposition -9858 May 08 j 06:07 morning rise -9852 Dec 02 j 07:47 18° mp 23'14 direct -9858 Jul 25 j 06:40 2°m/02'12 retrograde -9851 Mar 04 j 01:21 20° m 22'01 -9858 Oct 19 j 05:27 3° Mp 54'13 -9851 May 23 j 20:30 18° m 56'55 0°44'36 evening set opposition min. Earth dist. -9851 May 22 j 20:22 18° m 58'35 28.99488 AU -9858 Nov 03 j 16:27 4° Tp 28'56 1°18'20 -9851 Aug 09 j 10:34 17° Mp 34'16 conjunction direct -9858 Nov 03 j 16:28 4° m/28'56 1°18'39 -9851 Nov 03 j 08:37 19° m/26'17 minimum elong evening set -9858 Nov 04 j 17:42 4° Mp 31'19 31.04443 AU max. Earth dist. -9858 Nov 19 j 07:09 5° Mp 04'01 -9851 Nov 19 j 00:25 20° m 01'23 0°38'51 morning rise conjunction -9857 Feb 18 j 15:25 7° Mp 02'26 -9851 Nov 19 j 00:26 20° m/01'23 0°39'00 retrograde minimum elong -9851 Nov 20 i 02:44 opposition -9857 May 10 j 18:28 5° m 37'27 1°20'50 max. Earth dist. 20° m 03'52 30.98912 AU min. Earth dist. -9857 May 09 j 18:02 5° Mp 39'08 29.04169 AU morning rise -9851 Dec 04 i 20:14 20° m 36'53 direct -9857 Jul 27 i 17:50 4° m 14'45 retrograde -9850 Mar 06 i 14:03 22° m 35'41 evening set -9857 Oct 21 j 15:49 6° 1006'46 min. Earth dist. -9850 May 25 i 07:36 21° m 12'14 28.98409 AU -9850 May 26 j 08:33 21° m 10'30 0°38'16 opposition -9857 Nov 06 i 03:23 6° m 41'32 1°13'00 -9850 Aug 11 j 23:04 19° m 47'48 conjunction direct -9857 Nov 06 i 03:23 -9850 Nov 05 j 19:54 21° m 39'49 minimum elong 6° Mp 41'32 1°13'16 evening set -9857 Nov 07 j 04:08 6° Mp 43'52 31.03752 AU max. Earth dist. morning rise -9857 Nov 21 j 18:58 7° m 16'41 conjunction -9850 Nov 21 j 12:14 22° m 14'58 0°32'54 retrograde -9856 Feb 21 j 05:23 9° m 15'10 minimum elong -9850 Nov 21 j 12:14 22° Mp 14'58 0°33'03 min. Earth dist. -9856 May 11 j 06:03 7° Mp 51'52 29.03501 AU max. Earth dist. -9850 Nov 22 j 13:33 22° m/17'21 30.97821 AU -9856 May 12 j 06:45 7° **m** 50'10 1°15'04 -9850 Dec 07 j 08:55 22° m 50'31 opposition morning rise -9856 Jul 29 j 03:00 direct 6° m 27'30 retrograde -9849 Mar 09 j 03:27 24° m/49'18 -9856 Oct 23 j 02:12 evening set 8° m 19'32 opposition -9849 May 28 j 20:41 23° m 24'03 0°31'53 min. Earth dist. -9849 May 27 j 20:26 23° m 25'44 28.97317 AU -9856 Nov 07 j 14:32 conjunction 8° m 54'22 1°07'32 direct -9849 Aug 14 j 08:53 22° m 01'17 minimum elong -9856 Nov 07 j 14:33 8° My 54'221°07'49 evening set -9849 Nov 08 j 07:06 23° m 53'17 max. Earth dist. -9856 Nov 08 j 16:37 8° Mp 56'49 31.03097 AU morning rise -9856 Nov 23 j 06:45 9° m 29'34 conjunction -9849 Nov 24 j 00:14 24° Mp 28'29 0°26'54 retrograde -9855 Feb 22 j 17:48 11° Mp 28'08 minimum elong -9849 Nov 24 j 00:14 24° Mp 28'29 0°27'00 -9855 May 14 j 19:09 10° mp 03'08 1°09'10 -9849 Nov 25 j 02:47 24° M 30'58 30.96738 AU opposition max. Earth dist. -9855 May 13 j 18:32 10° My 04'50 29.02841 AU -9849 Dec 09 j 21:24 25° Mp 04'04 min. Earth dist. morning rise

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9848 in astronomical counting style is the year 9849 BCE in historical counting style. conjunction -9848 Mar 10 j 14:20 27° m 02'51 -9843 Dec 07 i 01:36 7°**£**50'13 -0°09'44 retrograde 25° m 39'16 28.96255 AU -9848 May 29 j 07:42 minimum elong -9843 Dec 07 j 01:36 7°**£**50'13 0°09'45 min. Earth dist. -9848 May 30 j 08:30 25° m 37'33 -9843 Dec 06 j 20:16 7°**£**49'44 0°25'27 behind sun begin opposition direct -9848 Aug 15 j 20:47 24° m 14'43 behind sun end -9843 Dec 07 j 06:56 7°£50'42 7°**2**52'42 30.92229 AU -9848 Nov 09 j 18:30 evening set 26° M 06'43 max. Earth dist. -9843 Dec 08 j 04:06 morning rise -9843 Dec 23 j 02:33 8°**£**26'04 conjunction -9848 Nov 25 j 12:08 26° Mp 41'57 0°20'52 retrograde -9842 Mar 24 j 21:22 10°**£**24'58 0°20'59 minimum elong -9848 Nov 25 j 12:08 26° Mp 41'57 min. Earth dist. -9842 Jun 12 j 07:13 9°**2**01'13 28.91991 AU max. Earth dist. -9848 Nov 26 j 13:55 26° Mp 44'22 30.95728 AU opposition -9842 Jun 13 j 07:22 8°**£**59'32 -0°13'43 morning rise -9848 Dec 11 j 10:06 27° m 17'35 direct -9842 Aug 29 j 12:12 7°**£**36'34 retrograde -9847 Mar 13 j 03:03 29° m 16'23 evening set -9842 Nov 23 j 17:09 9°**£**28'49 opposition -9847 Jun 01 j 20:27 27° m 51'00 0°18'59 -9842 Dec 09 j 14:32 min. Earth dist. -9847 May 31 j 19:32 27° m 52'44 28.95301 AU conjunction 10°**£**04'19 -0°15'50 direct -9847 Aug 18 j 06:12 26° Mp 28'08minimum elong -9842 Dec 09 j 14:32 10°**≙**04'19 0°15'52 evening set -9847 Nov 12 j 05:48 28° Mp 20'08behind sun begin -9842 Dec 09 j 13:58 10°**2**04'16 behind sun end -9842 Dec 09 j 15:06 10°**♀**04'22 conjunction -9847 Nov 28 j 00:10 28° m 55'25 0°14'49 max. Earth dist. -9842 Dec 10 j 17:28 10° **2**06'50 30.91673 AU minimum elong -9847 Nov 28 j 00:11 28° m 55'25 0°14'53 morning rise -9842 Dec 25 j 15:52 10°**♀**40'13 behind sun begin -9847 Nov 27 j 21:43 28° m 55'12 retrograde -9841 Mar 27 j 11:43 12°**₽**39'06 behind sun end -9847 Nov 28 j 02:38 28° m 55'38 opposition -9841 Jun 15 j 19:01 11°**♀**13'41 -0°20'15 min. Earth dist. max. Earth dist. -9847 Nov 29 j 03:09 28° m 57'57 30.94822 AU -9841 Jun 14 j 18:27 11° **2**15'24 28.91403 AU morning rise -9847 Dec 13 j 22:40 29° m 31'06 direct -9841 Sep 01 i 01:00 9°**£**50'42 -9847 Dec 27 i 12:13 0∘∙თ evening set -9841 Nov 26 j 05:41 11°**£**43'01 retrograde -9846 Mar 15 j 14:36 1°**2**29'54 min. Earth dist. -9846 Jun 03 j 07:35 0°**2**06'13 28.94451 AU conjunction -9841 Dec 12 i 03:24 12° 218'33 -0°21'56 opposition -9846 Jun 04 j 08:21 0°**2**04'29 0°12'28 -9841 Dec 12 i 03:24 12°**△**18'33 0°22'00 minimum elong -9846 Jun 07 j 00:45 max. Earth dist. -9841 Dec 13 j 04:47 12°**2**20'56 30.91042 AU 30°R M -9846 Aug 20 j 16:32 28° m 41'35 -9841 Dec 28 j 05:22 direct morning rise 12°**♀**54'29 -9846 Oct 29 j 19:14 0∘**⊽** -9840 Mar 29 j 01:47 retrograde 14°£53'23 13°**2**29'36 28.90736 AU -9846 Nov 14 j 17:25 0°**£**33'36 -9840 Jun 16 j 07:24 min. Earth dist. evening set -9840 Jun 17 j 06:46 13°**2**27'58 -0°26'45 opposition -9840 Sep 02 j 11:24 -9846 Nov 30 j 12:23 1°**2**08'56 0°08'44 conjunction 12°**2**04'56 direct -9846 Nov 30 j 12:23 -9840 Nov 27 j 18:10 1°**≏**08'56 0°08'48 13°**♀**57'19 minimum elong evening set -9846 Nov 30 j 06:47 behind sun begin 1°**2**08′26 -9846 Nov 30 j 18:00 -9840 Dec 13 j 16:34 behind sun end 1°**♀**09'26 conjunction 14°**£**32'53 -0°27'59 -9846 Dec 01 j 14:54 -9840 Dec 13 j 16:34 max. Earth dist. 1°**£**11'25 30.94044 AU minimum elong 14°**△**32'53 0°28'03 -9840 Dec 14 j 18:28 morning rise -9846 Dec 16 j 11:35 1°**º**44'39 max. Earth dist. 14°**♀**35'19 30.90323 AU retrograde -9845 Mar 18 j 04:49 3°**£**43'29 morning rise -9840 Dec 29 j 18:50 15°**≏**08'51 -9845 Jun 06 j 20:02 2°**2**18'03 0°05'56 retrograde -9839 Mar 31 j 13:31 17°**≏**07'45 opposition min. Earth dist. -9845 Jun 05 j 18:35 2°**£**19'49 28.93729 AU opposition -9839 Jun 19 j 18:23 15°**2**42'18 -0°33'13 -9845 Aug 23 j 02:30 0°**£**55'06 min. Earth dist. -9839 Jun 18 j 19:06 15°**2**43'56 28.89965 AU direct -9845 Nov 17 j 05:09 2°**-**47'10 -9839 Sep 04 j 23:41 14°**₽**19'13 evening set direct -9839 Nov 30 j 06:48 16°**♀**11'39 evening set -9845 Dec 03 j 00:44 3°**º**22'33 0°02'38 conjunction -9845 Dec 03 j 00:43 3°**₽**22'33 -9839 Dec 16 j 05:37 16°**-**47'15 -0°34'01 minimum elong 0°02'40 conjunction -9845 Dec 02 j 18:12 behind sun begin 3°**2**21'58 minimum elong -9839 Dec 16 i 05:36 16°**2**47'15 0°34'07 behind sun end -9845 Dec 03 i 07:13 3°**₽**23'08 max. Earth dist. -9839 Dec 17 i 05:54 16° **△**49'32 30.89515 AU max. Earth dist. -9845 Dec 04 i 03:34 3°**2**25'04 30.93366 AU morning rise -9838 Jan 01 i 08:31 17°**£**23'15 morning rise -9845 Dec 19 i 00:29 3°**2**58'19 retrograde -9838 Apr 03 i 02:43 19°**£**22'07 retrograde -9844 Mar 19 i 17:33 5°**£**57'09 min. Earth dist. -9838 Jun 21 j 07:25 17°**£**58'14 28.89122 AU desc. node -9844 May 05 j 18:17 5°**£**23'52 -9838 Jun 22 j 06:02 17°**£**56'39 -0°39'38 opposition -9844 Jun 07 j 07:14 4°**2**33'26 28.93098 AU direct -9838 Sep 07 j 09:49 16°**♀**33'29 min. Earth dist. -9844 Jun 08 j 07:53 4°**£**31'43 -0°00'37 -9838 Dec 02 j 19:33 18°**£**25'58 opposition evening set direct -9844 Aug 24 j 13:57 3°₽08'46 evening set -9844 Nov 18 j 16:48 5°**£**00'53 conjunction -9838 Dec 18 j 18:57 19°**2**01'36 -0°39'59 minimum elong -9838 Dec 18 j 18:57 19°**2**01'36 0°40'06 conjunction -9844 Dec 04 j 13:01 5°**£**36'18 -0°03'38 max. Earth dist. -9838 Dec 19 j 19:41 19°**£**03'55 30.88636 AU -9844 Dec 04 j 13:01 0°03'37 -9837 Jan 03 j 22:09 minimum elong 5°**£**36'18 morning rise 19°**♀**37'38 -9837 Apr 05 j 14:09 21°**△**36'27 behind sun begin -9844 Dec 04 j 06:34 5°**£**35'43 retrograde -9837 Jun 24 j 17:25 behind sun end -9844 Dec 04 j 19:29 5°**£**36'53 opposition 20°**£**10'57 -0°45'59 -9837 Jun 23 j 19:37 max. Earth dist. -9844 Dec 05 j 16:05 5°**♀**38'50 30.92783 AU min. Earth dist. 20°**£**12'29 28.88233 AU morning rise -9844 Dec 20 j 13:19 6°**£**12'06 direct -9837 Sep 09 j 20:36 18°**£**47'42 retrograde -9843 Mar 22 j 08:10 8°**£**10'58 evening set -9837 Dec 05 j 08:22 20°**£**40'14 opposition -9843 Jun 10 j 19:36 6°**£**45'32 -0°07'10 min. Earth dist. -9843 Jun 09 j 18:04 6°**£**47'19 28.92536 AU conjunction -9837 Dec 21 j 08:10 21°**£**15'54 -0°45'53 5°**£**22'34 -9837 Dec 21 j 08:09 21°**2**15'54 0°46'03 direct -9843 Aug 27 j 01:53 minimum elong 7°**£**14'45 max. Earth dist. -9837 Dec 22 j 07:51 21°**△**18'07 30.87759 AU evening set -9843 Nov 21 j 04:56

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9836 in astronomical counting style is the year 9837 BCE in historical counting style. opposition -9836 Jan 06 j 11:50 21°**♀**51'57 -9830 Jul 09 j 23:49 5°M51'29 -1°28'00 morning rise -9836 Apr 07 j 03:32 23°**♀**50'44 -9830 Jul 09 j 04:01 5°M52'53 28.84733 AU retrograde min. Earth dist. -9836 Jun 25 j 06:43 22°**£**26'44 28.87383 AU -9830 Sep 25 j 05:14 4°M27'54 min. Earth dist. direct -9836 Jun 26 j 04:47 -9830 Dec 21 j 04:34 6°M21'08 22°**2**25'11 -0°52'16 opposition evening set -9836 Sep 11 j 07:09 direct 21°**Ω**01'51 -9836 Dec 06 j 21:04 -9829 Jan 06 j 06:55 evening set 22°**£**54'27 conjunction 6°M56'59 -1°24'50 -9829 Jan 06 j 06:54 minimum elong 6°M56'59 1°25'08 -9829 Jan 07 j 03:48 conjunction -9836 Dec 22 j 21:17 23°**△**30'09 -0°51'43 max. Earth dist. 6°M58'57 30.84584 AU 7°M33'09 minimum elong -9836 Dec 22 j 21:16 23°**₽**30′09 0°51'53 morning rise -9829 Jan 22 j 12:36 max. Earth dist. -9836 Dec 23 j 21:03 23°**≏**32'22 30.86930 AU retrograde -9829 Apr 24 j 01:03 9°MJ31'46 morning rise -9835 Jan 08 j 01:17 24°**2**06'13 opposition -9829 Jul 12 j 10:52 8°M06'22 -1°33'33 -9829 Jul 11 j 15:54 retrograde -9835 Apr 09 j 15:05 26°**₽**04'58 min. Earth dist. 8°M07'43 28.84603 AU -9829 Sep 27 j 15:37 opposition -9835 Jun 28 j 16:10 24°**△**39'23 -0°58'28 direct 6°M42'46 min. Earth dist. -9835 Jun 27 j 19:09 24°**£**40'52 28.86611 AU evening set -9829 Dec 23 j 18:21 8°M36'08 direct -9835 Sep 13 j 18:42 23° £ 15'59 evening set -9835 Dec 09 j 09:58 25°**♀**08'40 conjunction -9828 Jan 08 j 21:05 9°M12'01 -1°29'58 minimum elong -9828 Jan 08 j 21:04 9°M12'01 1°30'17 conjunction -9835 Dec 25 j 10:40 25°**2**44'23 -0°57'29 max. Earth dist. -9828 Jan 09 j 18:11 9°M13'59 30.84426 AU minimum elong -9835 Dec 25 j 10:40 25°**-**44′23 0°57'41 morning rise -9828 Jan 25 j 02:47 9°M48'11 max. Earth dist. -9835 Dec 26 j 10:16 25°**≏**46'35 30.86221 AU retrograde -9828 Apr 25 j 13:11 11°M46'46 morning rise -9834 Jan 10 j 15:00 26°**₽**20'28 opposition -9828 Jul 13 j 22:02 10°M21'25 -1°38'57 retrograde -9834 Apr 12 j 04:56 28°**♀**19'11 min. Earth dist. -9828 Jul 13 i 04:13 10°M22'41 28.84426 AU min. Earth dist. -9834 Jun 30 i 05:30 26°**£**55'08 28.85972 AU direct -9828 Sep 29 i 02:33 8°M57'47 -9834 Jul 01 i 03:14 26° **2**53'36 -1°04'35 evening set -9828 Dec 25 j 08:11 10°M51'16 opposition -9834 Sep 16 i 06:34 25°**♀**30'07 direct -9834 Dec 11 j 23:07 27°**£**22'54 -9827 Jan 10 j 11:07 11°M27'08 -1°34'58 evening set conjunction -9827 Jan 10 j 11:06 11°ML27'08 1°35'17 minimum elong -9834 Dec 28 j 00:06 27°**£**58'39 -1°03'09 -9827 Jan 11 j 06:30 conjunction max. Earth dist. 11°M28'57 30.84218 AU -9834 Dec 28 j 00:05 -9827 Jan 26 j 17:06 27°**£**58'39 1°03'21 morning rise 12°M03'20 minimum elong max. Earth dist. -9834 Dec 28 j 23:02 -9827 Apr 28 j 02:16 28°**೨**00'47 30.85640 AU retrograde 14°ML01'51 -9833 Jan 13 j 04:48 28°**₽**34'45 -9827 Jul 16 j 09:11 12°M36'32 -1°44'13 morning rise opposition -9833 Feb 27 j 22:18 0°M min. Earth dist. -9827 Jul 15 j 15:40 12°M37'47 28.84185 AU -9833 Apr 14 j 17:49 0°M33'27 -9827 Oct 01 j 13:42 retrograde direct 11°M12'50 -9833 May 31 j 10:50 -9827 Dec 27 j 22:17 evening set 13°ML06'26 -9833 Jul 03 j 14:31 opposition 29°**£**07'52 -1°10'36 -9833 Jul 02 j 18:03 -9826 Jan 13 j 01:30 13°M42'19 -1°39'49 min. Earth dist. 29°**£**09'18 28.85476 AU conjunction -9826 Jan 13 j 01:29 direct -9833 Sep 18 j 16:59 27°**£**44'21 minimum elong 13°M42'19 1°40'10 evening set -9833 Dec 14 j 12:08 29°**♀**37'13 max. Earth dist. -9826 Jan 13 j 20:14 13°M44'04 30.83916 AU -9833 Dec 24 j 18:49 0° M morning rise -9826 Jan 29 j 07:33 14°M18'30 -9826 Feb 18 j 06:12 15°M conjunction -9833 Dec 30 j 13:37 0°M13'00 -1°08'44 retrograde -9826 Apr 30 j 13:10 16°M16'58 -9833 Dec 30 j 13:37 0°M13'00 1°08'59 -9826 Jul 13 j 22:31 15°RM minimum elong -9833 Dec 31 j 13:04 0°M15'11 30.85212 AU -9826 Jul 18 j 20:15 14°ML51'40 -1°49'19 max. Earth dist. opposition -9832 Jan 15 j 18:28 0°M49'07 min. Earth dist. -9826 Jul 18 j 04:29 14°M52'47 28.83849 AU morning rise 2°M47'47 -9832 Apr 16 j 08:16 direct -9826 Oct 04 j 00:57 13°M27'53 retrograde -9832 Jul 04 i 04:30 min. Earth dist. 1°ML23'43 28.85118 AU -9826 Dec 20 j 10:04 15°M -9832 Jul 05 i 01:34 opposition 1°M22'14 -1°16'31 evening set -9826 Dec 30 i 12:25 15°M21'34 -9832 Sep 11 j 14:18 30°R<u>Ω</u> -9825 Jan 15 i 15:55 direct -9832 Sep 20 i 06:11 29°**♀**58'42 conjunction 15°M57'28 -1°44'30 -9832 Sep 28 j 19:58 0°M minimum elong -9825 Jan 15 i 15:54 15°M57'28 1°44'52 evening set -9832 Dec 16 j 01:28 1°M51'41 max. Earth dist. -9825 Jan 16 j 09:30 15°ML59'06 30.83551 AU -9825 Jan 31 j 22:06 16°MJ33'38 morning rise -9831 Jan 01 j 03:08 2°ML27'29 -1°14'13 -9825 May 03 j 02:51 18°MJ32'00 conjunction retrograde -9825 Jul 21 j 07:12 minimum elong -9831 Jan 01 j 03:07 2°M27'29 1°14'28 opposition 17° ML06'42 -1°54'16 17°M07'50 28.83462 AU max. Earth dist. -9831 Jan 02 j 01:15 2°M29'33 30.84917 AU min. Earth dist. -9825 Jul 20 j 15:20 3°M03'37 15°M42'49 -9831 Jan 17 j 08:24 direct -9825 Oct 06 j 12:50 morning rise -9831 Apr 18 j 22:19 5°ML02'17 -9824 Jan 02 j 02:32 17°M36'36 retrograde evening set -9831 Jul 07 j 12:44 3°M36'46 -1°22'19 opposition 18°M12'30 -1°49'03 -9831 Jul 06 j 16:46 3°M38'10 28.84893 AU -9824 Jan 18 j 06:08 min. Earth dist. conjunction -9824 Jan 18 j 06:07 direct -9831 Sep 22 j 16:58 2°M13'12 minimum elong 18°M12'30 1°49'26 -9831 Dec 18 j 14:47 evening set 4°M06'18 max. Earth dist. -9824 Jan 18 j 22:36 18°ML14'03 30.83138 AU morning rise -9824 Feb 03 j 12:25 18°M48'41 conjunction -9830 Jan 03 j 16:59 4°M42'08 -1°19'35 retrograde -9824 May 04 j 14:25 20°M46'57 minimum elong -9830 Jan 03 j 16:58 4°M42'08 1°19'52 opposition -9824 Jul 22 j 18:12 19°M21'38 -1°59'01 max. Earth dist. -9830 Jan 04 j 15:41 4°**M**.44'16 30.84729 AU min. Earth dist. -9824 Jul 22 j 04:06 19°M22'39 28.83068 AU -9830 Jan 19 j 22:20 5°M18'18 -9824 Oct 07 j 23:57 17°M57'39 morning rise direct -9830 Apr 21 j 10:44 -9823 Jan 03 j 16:36 19°M51'31 retrograde 7°M16'56 evening set

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9823 in astronomical counting style is the year 9824 BCE in historical counting style. -9823 Jan 19 j 20:32 20°M27'26 -1°53'25 retrograde -9817 May 21 j 08:07 6°**х** 30′27 conjunction -9823 Jan 19 j 20:31 20°M27'26 1°53'49 -9817 Aug 07 j 21:21 5°×105'31 -2°26'53 minimum elong opposition 5°**尽**06'11 28.83272 AU -9823 Jan 20 j 12:55 20°M28'58 30.82763 AU min. Earth dist. -9817 Aug 07 j 11:55 max. Earth dist. -9823 Feb 05 j 02:47 -9817 Oct 24 j 10:48 3°**∡**'41'11 21°M 03'35 morning rise direct 23°MJ01'46 -9823 May 07 j 03:45 -9816 Jan 20 j 21:21 5°**х** 35′59 retrograde evening set -9823 Jul 25 j 04:54 opposition 21°M36'27 -2°03'36 -9823 Jul 24 j 14:38 -9816 Feb 06 j 02:08 6° ₹ 11'56 -2°18'49 min. Earth dist. 21°M37'28 28.82730 AU conjunction 6°**∡**11'56 2°19'19 -9816 Feb 06 j 02:07 direct -9823 Oct 10 j 13:44 20°M12'22 minimum elong -9816 Feb 06 j 12:38 evening set -9822 Jan 06 j 06:53 22°M06'20 max. Earth dist. 6° ₹ 12'55 30.83272 AU morning rise -9816 Feb 22 j 08:18 6°**х** 48′02 conjunction -9822 Jan 22 j 10:52 22°M42'15 -1°57'36 retrograde -9816 May 22 j 21:59 8°×45'41 -9822 Jan 22 j 10:51 -9816 Aug 09 j 08:01 7°**∡**120'51 -2°30'01 minimum elong 22°M42'15 1°58'02 opposition -9822 Jan 23 j 01:37 max. Earth dist. 22°M43'38 30.82460 AU min. Earth dist. -9816 Aug 08 j 22:37 7°**≯**21'31 28.83616 AU morning rise -9822 Feb 07 j 17:19 23°M18'24 direct -9816 Oct 25 j 22:03 5°**х** 56′29 retrograde -9822 May 09 j 16:50 25°M16'29 evening set -9815 Jan 22 j 12:15 7°**х** 51′26 opposition -9822 Jul 27 j 15:47 23°ML51'11 -2°07'59 min. Earth dist. -9822 Jul 27 j 02:48 23°M52'06 28.82497 AU conjunction -9815 Feb 07 j 17:02 8°**₹**'27'24 -2°21'38 -9822 Oct 13 j 01:17 22°M27'00 minimum elong -9815 Feb 07 j 17:01 8°**₹**27'24 2°22'08 evening set -9821 Jan 08 j 21:05 24°M21'05 max. Earth dist. -9815 Feb 08 j 02:10 8° ₹28'15 30.83576 AU morning rise -9815 Feb 23 j 23:07 9°**х**¹03′30 conjunction -9821 Jan 25 j 01:23 24°ML57'01 -2°01'37 retrograde -9815 May 25 j 09:07 11°**₹**'01'04 minimum elong -9821 Jan 25 i 01:21 24°ML57'01 2°02'03 opposition -9815 Aug 11 i 18:49 9°**х** 36'18 -2°32'55 max. Earth dist. -9821 Jan 25 i 16:29 24°M58'25 30.82278 AU min. Earth dist. -9815 Aug 11 j 11:35 9°**∡**36'49 28.83898 AU morning rise -9821 Feb 10 i 07:39 25°M33'09 direct -9815 Oct 28 i 09:02 8°**х** 11′54 retrograde -9821 May 12 j 05:23 27°MJ31'08 evening set -9814 Jan 25 j 03:08 10°**₹**07'00 -9821 Jul 30 j 02:25 26°M05'52 -2°12'11 opposition -9821 Jul 29 j 13:34 26°ML06'47 28.82387 AU -9814 Feb 10 i 08:07 10°**∡**⁷42'57 -2°24'14 min Earth dist conjunction -9821 Oct 15 j 14:05 24°M41'38 -9814 Feb 10 j 08:06 10°**∡**⁷42'57 2°24'46 direct minimum elong -9820 Jan 11 j 11:27 -9814 Feb 10 j 16:21 10° ₹43'44 30.83809 AU evening set 26°M35'50 max. Earth dist. -9814 Feb 26 j 14:04 11°**х** 19′03 morning rise -9820 Jan 27 j 15:43 -9814 May 27 j 22:08 conjunction 27°M-11'46 -2°05'27 retrograde 13°**х** 16′30 -9820 Jan 27 j 15:42 -9814 Aug 14 j 05:32 minimum elong 27°M-11'46 2°05'54 opposition 11°**₹**51'49 -2°35'35 -9820 Jan 28 j 05:03 -9814 Aug 13 j 22:39 max. Earth dist. 27°M13'00 30.82241 AU min. Earth dist. 11°**尽**52'18 28.84077 AU -9820 Feb 12 j 22:09 -9814 Oct 30 j 23:02 10°**х** 27′21 morning rise 27°M47'54 direct 29°M45'48 -9820 May 13 j 19:48 -9813 Jan 27 j 18:10 12°**₹**22'34 retrograde evening set -9820 Jul 31 j 13:12 28°M20'35 -2°16'11 opposition 12°**∡** 58'32 -2°26'37 -9820 Jul 31 j 00:55 -9813 Feb 12 j 23:03 min. Earth dist. 28°M21'27 28.82441 AU conjunction direct -9820 Oct 17 j 01:19 26°M56'18 minimum elong -9813 Feb 12 j 23:02 12°**∡** 58'32 2°27'09 evening set -9819 Jan 13 j 01:35 28°M50'38 max. Earth dist. -9813 Feb 13 j 05:07 12°**尽**59'06 30.83930 AU morning rise -9813 Mar 01 j 04:58 13°**∡**³34'35 conjunction -9819 Jan 29 j 06:08 29°M26'35 -2°09'06 retrograde -9813 May 30 j 10:40 15°**∡**31'56 -9819 Jan 29 j 06:07 29°M26'34 2°09'33 -9813 Aug 16 j 16:18 14°**₹**07'17 -2°38'01 minimum elong opposition max. Earth dist. -9819 Jan 29 j 19:58 29°M27'52 30.82355 AU min. Earth dist. -9813 Aug 16 j 11:12 14°**✗**07'39 28.84169 AU -9819 Feb 13 j 06:43 -9813 Nov 02 j 10:50 12°**∡** 42'44 0° **₹** direct -9819 Feb 14 j 12:25 0°**х**¹02'42 -9812 Jan 30 j 08:58 14°**∡**°38′04 morning rise evening set retrograde -9819 May 16 i 07:33 2°×700'32 -9819 Aug 02 j 23:57 -9812 Feb 15 i 14:04 15°**х** 14′01 -2°28′47 opposition 0° ₹35'24 -2°19'58 conjunction -9819 Aug 02 j 12:37 -9812 Feb 15 i 14:04 min. Earth dist. 0° ₹36'12 28.82624 AU minimum elong 15°**х** 14′01 2°29′20 -9819 Aug 24 i 08:33 30°RM max. Earth dist. -9812 Feb 15 i 19:51 15° ₹ 14'34 30.83987 AU direct -9819 Oct 19 i 12:54 29°M11'06 morning rise -9812 Mar 02 i 19:44 15°**₹**′50'04 -9819 Dec 13 j 07:11 0°×7 retrograde -9812 May 31 j 23:16 17°**₹**'47'16 -9818 Jan 15 j 16:07 1°**х** 05'34 -9812 Aug 18 j 02:55 16°**₹**22'39 -2°40'12 evening set opposition min. Earth dist. -9812 Aug 17 j 22:26 16°**₹**'22'58 28.84203 AU 14°**₹**58'01 conjunction -9818 Jan 31 j 20:41 1°**х** 41'31 -2°12'32 direct -9812 Nov 04 j 00:14 minimum elong -9818 Jan 31 j 20:41 1° x 41'31 2°13'01 evening set -9811 Jan 31 j 23:48 16°**х** 53′26 max. Earth dist. -9818 Feb 01 j 08:52 1°**х** 42'39 30.82601 AU -9818 Feb 17 j 03:05 2°**х** 17′39 conjunction -9811 Feb 17 j 04:47 17°**х** 29'23 -2°30'43 morning rise -9811 Feb 17 j 04:46 -9818 May 18 j 20:50 4° ₹ 15'24 17°**₹**29'23 2°31'16 retrograde minimum elong -9818 Aug 05 j 10:32 2°**х** 50′22 -2°23′32 -9811 Feb 17 j 08:18 17°**∡**′29'43 30.84015 AU opposition max. Earth dist. -9818 Aug 04 j 23:24 2°**尽**51'09 28.82924 AU -9811 Mar 05 j 10:32 18°**₹**05'25 min. Earth dist. morning rise -9818 Oct 22 j 00:07 1°**х** 26′02 -9811 Jun 03 j 13:31 20°**₹**02'28 direct retrograde evening set -9817 Jan 18 j 06:46 3°×20'41 opposition -9811 Aug 20 j 13:30 18°**∡** 37'52 -2°42'09 min. Earth dist. -9811 Aug 20 j 10:03 18°**✗**38′07 28.84245 AU conjunction -9817 Feb 03 j 11:29 3°**₹**56'38 -2°15'47 direct -9811 Nov 06 j 13:11 17°**х** 13′07 minimum elong -9817 Feb 03 j 11:28 3°**₹**56'38 2°16'16 evening set -9810 Feb 03 j 14:35 19°**х** 08′38 max. Earth dist. -9817 Feb 03 j 23:19 3°**₹**'57'44 30.82920 AU -9817 Feb 19 j 17:42 4°**∡**³32'45 -9810 Feb 19 j 19:46 19° **₹** 44'35 -2°32'25 morning rise conjunction

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9810 in astronomical counting style is the year 9811 BCE in historical counting style. opposition -9810 Feb 19 i 19:46 19°**∡**¹44'35 2°32'58 -9804 Sep 04 i 14:49 4°る21'39 -2°48'41 minimum elong 19°**∡**′44′56 30.84062 AU -9810 Feb 19 j 23:23 min. Earth dist. -9804 Sep 04 j 17:16 4°る21'29 28.87277 AU max. Earth dist. -9810 Mar 08 j 01:12 20°**х** 20′35 -9804 Nov 22 j 00:12 2°る56'32 direct morning rise -9810 Jun 06 j 00:26 22°×17'29 -9803 Feb 19 j 21:36 4°る52'48 retrograde evening set -9810 Aug 22 j 23:59 20°**∡** 52'55 -2°43'50 opposition -9810 Aug 22 j 21:45 -9803 Mar 08 j 02:47 5°る28'42 -2°37'42 min. Earth dist. 20°**尽**53′05 28.84323 AU conjunction 5°る28'42 2°38'17 -9803 Mar 08 j 02:47 direct -9810 Nov 09 j 02:18 19°**∡** 28′05 minimum elong -9803 Mar 07 j 23:55 -9809 Feb 06 j 05:27 evening set 21°×23'42 max. Earth dist. 5°る28'26 30.87402 AU 6°**ප**04'35 morning rise -9803 Mar 24 j 07:05 conjunction -9809 Feb 22 j 10:31 21° **2**759'38 -2°33'53 retrograde -9803 Jun 21 j 11:41 8°**ح**00'33 21°**х** 59'38 2°34'27 minimum elong -9809 Feb 22 j 10:30 opposition -9803 Sep 07 j 01:21 6°る36'33 -2°48'35 -9809 Feb 22 j 12:16 21°**х** 59'47 30.84188 AU -9803 Sep 07 j 04:32 max. Earth dist. min. Earth dist. 6°**궁**36'19 28.87964 AU -9803 Nov 24 j 13:46 morning rise -9809 Mar 10 j 15:58 22°**х¹**35'37 direct 5°**る**11'24 retrograde -9809 Jun 08 j 13:41 24°**₹**32'21 evening set -9802 Feb 22 j 12:36 7°る07'47 opposition -9809 Aug 25 j 10:29 23°**х** 07'49 -2°45'17 min. Earth dist. -9809 Aug 25 j 08:22 23°**✗**07'58 28.84510 AU conjunction -9802 Mar 10 j 17:34 7°る43'41 -2°37'30 direct -9809 Nov 11 j 14:31 21°**х¹**42'54 minimum elong -9802 Mar 10 j 17:34 7°る43'41 2°38'04 evening set -9808 Feb 08 j 19:59 23°**х** 38'36 max. Earth dist. -9802 Mar 10 j 12:12 7°る43'11 30.88057 AU morning rise -9802 Mar 26 j 21:49 8°る19'32 conjunction -9808 Feb 25 j 01:08 24°**∡**14'32 -2°35'08 retrograde -9802 Jun 24 j 01:12 10°る15'23 minimum elong -9808 Feb 25 j 01:08 24°**∡**14'32 2°35'41 opposition -9802 Sep 09 j 11:52 8° ප් 51'27 - 2°48'14 max. Earth dist. -9808 Feb 25 i 02:53 24° ₹ 14'42 30.84423 AU min. Earth dist. -9802 Sep 09 i 16:13 8°る51'08 28.88586 AU morning rise -9808 Mar 12 i 06:18 24°**₹**50′29 direct -9802 Nov 27 i 02:34 7°る26'15 retrograde -9808 Jun 10 j 00:46 26°**х** 47′06 evening set -9801 Feb 25 j 03:22 9°る22'44 -9808 Aug 26 j 21:04 25°**₹**22'37 -2°46'29 opposition -9808 Aug 26 j 20:23 25°**₹**22'40 28.84821 AU -9801 Mar 13 j 08:28 9°る58'38 -2°37'03 min. Earth dist. conjunction -9808 Nov 13 j 01:56 23°×757'38 -9801 Mar 13 j 08:28 9°**궁**58'38 2°37'38 direct minimum elong -9807 Feb 10 j 10:41 25°**₹**53'25 -9801 Mar 13 j 02:53 9°る58'07 30.88629 AU max. Earth dist. evening set morning rise -9801 Mar 29 j 12:20 10°る34'28 -9807 Feb 26 j 15:49 26°**₹**129'20 -2°36'07 -9801 Jun 26 j 12:16 12°る30'10 conjunction retrograde -9807 Feb 26 j 15:49 opposition -9801 Sep 11 j 22:31 11°る06'18 -2°47'38 26° \$\frac{1}{2}9'20 2°36'42 minimum elong -9807 Feb 26 j 16:16 -9801 Sep 12 j 04:21 11°る05'54 28.89107 AU max. Earth dist. 26°**✗**29'23 30.84812 AU min. Earth dist. -9807 Mar 14 j 20:55 27°**₹**05'17 -9801 Nov 29 j 16:01 9°**ප්**41'04 morning rise direct 11°る37'37 -9800 Feb 27 j 18:02 -9807 Jun 12 j 13:37 29°**渘**01'45 retrograde evening set 27°**₹**37'20 -2°47'25 -9807 Aug 29 j 07:21 opposition 12°る13'31 -2°36'22 -9807 Aug 29 j 06:24 -9800 Mar 14 j 22:57 min. Earth dist. 27°**∡**37′24 28.85281 AU conjunction -9800 Mar 14 j 22:57 direct -9807 Nov 15 j 13:34 26°**∡**12'17 minimum elong 12°**る**13'31 2°36'57 evening set -9806 Feb 13 j 01:28 28°**₹**'08'11 max. Earth dist. -9800 Mar 14 j 15:07 12°る12'47 30.89120 AU morning rise -9800 Mar 31 j 02:48 12°**る**49'19 conjunction -9806 Mar 01 j 06:36 28° **4**4'07 -2°36'53 retrograde -9800 Jun 28 j 01:39 14°**る**44'52 -9806 Mar 01 j 06:36 28°**∡**¹44'07 2°37'28 opposition -9800 Sep 13 j 09:00 13°る21'03 -2°46'46 minimum elong max. Earth dist. -9806 Mar 01 j 06:14 28°**✗¹**44'05 30.85333 AU min. Earth dist. -9800 Sep 13 j 15:16 13°る20'37 28.89567 AU -9806 Mar 17 j 11:30 29°**х** 20′03 -9800 Dec 01 j 04:52 11°る55'45 morning rise direct -9806 Apr 05 j 17:11 0°る -9799 Mar 01 j 08:38 13°る52'22 evening set -9806 Jun 14 j 23:38 1°る16'23 retrograde -9806 Aug 27 i 02:22 -9799 Mar 17 j 13:39 14°る28'15 -2°35'27 30°R **₹** conjunction -9799 Mar 17 i 13:39 opposition -9806 Aug 31 i 17:56 29° \$\square\$ 52'03 -2°48'06 minimum elong 14°る28'15 2°36'02 -9799 Mar 17 i 05:31 min. Earth dist. -9806 Aug 31 i 18:43 29° ₹ 52'00 28.85870 AU max. Earth dist. 14°る27'30 30.89551 AU 28°**х** 26′59 direct -9806 Nov 18 i 00:38 morning rise -9799 Apr 02 j 17:11 15°る04'02 -9805 Feb 04 j 20:22 0°궁 retrograde -9799 Jun 30 i 12:44 16°る59'24 -9805 Feb 15 j 16:09 0°る23'00 -9799 Sep 15 i 19:26 15°る35'39 -2°45'40 evening set opposition min. Earth dist. -9799 Sep 16 j 03:34 15°る35'04 28.89983 AU -9805 Mar 03 j 21:19 0°**궁**58'55 -2°37'24 -9799 Dec 03 j 17:12 14°る10'16 conjunction direct -9805 Mar 03 j 21:18 -9798 Mar 03 j 23:17 minimum elong 0°る58'55 2°37'59 evening set 16°**පි**06'56 max. Earth dist. -9805 Mar 03 j 20:23 0°る58'50 30.85979 AU -9805 Mar 20 j 02:00 1°る34'49 conjunction -9798 Mar 20 j 04:11 16°る42'49 -2°34'19 morning rise -9805 Jun 17 j 11:42 3°る31'02 minimum elong -9798 Mar 20 j 04:11 16°る42'49 2°34'53 retrograde -9805 Sep 03 j 04:19 2°る06'49 -2°48'31 -9798 Mar 19 j 18:21 16°る41'54 30.89980 AU opposition max. Earth dist. -9805 Sep 03 j 05:08 2°る06'46 28.86549 AU -9798 Apr 05 j 07:38 17°る18'35 min. Earth dist. morning rise -9805 Nov 20 j 13:31 0°る41'43 -9798 Jul 03 j 01:04 19°る13'47 direct retrograde -9804 Feb 18 j 06:58 2°る37'52 -9798 Sep 18 j 05:48 17°る50'04 -2°44'19 evening set opposition min. Earth dist. -9798 Sep 18 j 13:49 17°る49'30 28.90418 AU conjunction -9804 Mar 05 j 11:59 3°**ප**13'47 -2°37'40 direct -9798 Dec 06 j 05:49 16°**පි**24'37 minimum elong -9804 Mar 05 j 11:59 3°**ප**13'47 2°38'15 evening set -9797 Mar 06 j 13:40 18°る21'20 max. Earth dist. -9804 Mar 05 j 09:25 3°る13'32 30.86683 AU -9804 Mar 21 j 16:34 3°る49'40 -9797 Mar 22 j 18:30 18°る57'13 -2°32'56 morning rise conjunction -9804 Jun 18 j 23:40 5°**る**45'46 -9797 Mar 22 j 18:30 18°る57'13 2°33'30 retrograde minimum elong

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9797 in astronomical counting style is the year 9798 BCE in historical counting style. -9797 Mar 22 j 08:01 18°る56'14 30.90434 AU retrograde -9791 Jul 18 i 07:28 4°≈51'29 max. Earth dist. opposition -9797 Apr 07 j 21:39 19°る32'57 -9791 Oct 03 j 06:38 3°≈28'22 -2°28'06 morning rise -9797 Jul 05 j 10:24 21°る27'59 min. Earth dist. -9791 Oct 03 j 19:34 3°≈27'27 28.96388 AU retrograde -9797 Sep 20 j 16:18 20°**ට**04'19 -2°42'43 -9791 Dec 21 j 19:24 direct 2°≈02'47 opposition -9797 Sep 21 j 02:00 -9790 Mar 22 j 16:38 min. Earth dist. 20°る03'38 28.90917 AU evening set 3°≈59'57 -9797 Dec 08 j 17:17 direct 18°**る**38'49 -9796 Mar 08 j 03:56 -9790 Apr 07 j 20:56 evening set 20°る35'34 conjunction 4°≈35'46 -2°17'00 -9790 Apr 07 j 20:57 minimum elong 4°≈35'46 2°17'30 -9790 Apr 07 j 05:31 conjunction -9796 Mar 24 j 08:44 21°る11'26 -2°31'20 max. Earth dist. 4°≈34'20 30.96735 AU minimum elong -9796 Mar 24 j 08:45 21°る11'26 2°31'53 morning rise -9790 Apr 23 j 22:27 5°≈11'22 -9790 Jul 20 j 18:48 max. Earth dist. -9796 Mar 23 j 21:41 21°る10'25 30.90994 AU retrograde 7°≈05'26 -9796 Apr 09 j 11:41 -9790 Oct 05 j 17:21 morning rise 21°る47'10 opposition 5°≈42'24 -2°24'51 -9796 Jul 06 j 21:40 retrograde 23°る42'01 min. Earth dist. -9790 Oct 06 j 08:05 5°≈41'22 28.97432 AU opposition -9796 Sep 22 j 02:33 22°る18'25 -2°40'53 direct -9790 Dec 24 j 08:35 4°≈16'50 min. Earth dist. -9796 Sep 22 j 12:04 22°る17'45 28.91528 AU evening set -9789 Mar 25 j 06:37 6°≈14'02 direct -9796 Dec 10 j 05:48 20°る52'51 evening set -9795 Mar 10 j 18:10 22°る49'40 conjunction -9789 Apr 10 j 10:40 6°≈49'50 -2°13'51 minimum elong -9789 Apr 10 j 10:41 6°≈49'50 2°14'22 conjunction -9795 Mar 26 j 22:51 23°る25'32 -2°29'29 max. Earth dist. -9789 Apr 09 j 17:29 6°≈48'14 30.97748 AU 23°**る**25'32 2°30'03 minimum elong -9795 Mar 26 j 22:51 morning rise -9789 Apr 26 j 12:03 7°≈25'25 max. Earth dist. -9795 Mar 26 j 10:36 23°る24'24 30.91673 AU retrograde -9789 Jul 23 j 06:57 9°≈19'20 morning rise -9795 Apr 12 i 01:38 24°る01'14 opposition -9789 Oct 08 i 03:55 7°≈56'23 -2°21'24 retrograde -9795 Jul 09 i 08:23 25°る55'57 min. Earth dist. -9789 Oct 08 j 18:33 7°≈55'21 28.98390 AU opposition -9795 Sep 24 i 13:00 24°る32'25 -2°38'48 direct -9789 Dec 26 i 22:05 6°≈30'48 min. Earth dist. -9795 Sep 24 j 23:42 24°る31'40 28.92283 AU evening set -9788 Mar 26 j 20:33 8°≈28'02 -9795 Dec 12 j 16:01 23°る06'49 max. Earth dist. -9788 Apr 11 j 06:35 9°≈02'09 30.98658 AU direct -9794 Mar 13 j 08:18 25°る03'42 evening set -9788 Apr 12 j 00:31 9°≈03'49 -2°10'32 conjunction -9794 Mar 29 j 13:01 25°る39'33 -2°27'26 -9788 Apr 12 j 00:32 9°**≈**03'49 conjunction minimum elong 2°11'01 -9794 Mar 29 j 13:02 -9788 Apr 28 j 01:33 9°≈39'22 minimum elong 25°る39'33 2°27'58 morning rise -9794 Mar 29 j 00:55 -9788 Jul 24 j 16:56 max. Earth dist. 25°る38'25 30.92504 AU retrograde 11°≈33'08 -9794 Apr 14 j 15:29 -9788 Oct 09 j 14:33 26°**る**15'14 10°≈10'15 -2°17'44 morning rise opposition -9794 Jul 11 j 18:53 28°**る**09'48 min. Earth dist. -9788 Oct 10 j 07:06 10°≈09'05 28.99255 AU retrograde 26°る46'22 -2°36'29 -9794 Sep 26 j 23:21 -9788 Dec 28 j 09:39 opposition direct 8°≈44'38 -9794 Sep 27 j 10:16 26°る45'36 28.93169 AU -9787 Mar 29 j 10:22 min. Earth dist. evening set 10°≈41'51 -9794 Dec 15 j 05:38 25°**る**20'46 direct -9793 Mar 15 j 22:31 -9787 Apr 14 j 14:13 evening set 27°**る**17'43 conjunction 11°≈17'38 -2°07'00 minimum elong -9787 Apr 14 j 14:14 11°≈17'38 2°07'30 conjunction -9793 Apr 01 j 02:59 27°る53'33 -2°25'09 max. Earth dist. -9787 Apr 13 j 19:17 11°≈15'52 30.99494 AU -9793 Apr 01 j 03:00 27°る53'33 2°25'42 morning rise -9787 Apr 30 j 15:04 11°≈53'09 minimum elong max. Earth dist. -9793 Mar 31 j 13:09 27°る52'16 30.93469 AU retrograde -9787 Jul 27 j 04:19 13°≈46'45 -9793 Apr 17 j 05:22 28°る29'13 -9787 Oct 12 j 01:05 12°≈23'55 -2°13'52 morning rise opposition -9793 Jun 06 j 21:58 min. Earth dist. -9787 Oct 12 j 17:44 12°≈22'45 29.00036 AU 0°≈ -9793 Jul 14 j 07:24 0°≈23'40 -9787 Dec 30 j 22:48 10°≈58'15 retrograde direct -9793 Aug 21 j 06:35 30°Ŗ⋜ evening set -9786 Apr 01 j 00:08 12°≈55'28 -9793 Sep 29 i 09:48 opposition 29°る00'19 -2°33'55 max. Earth dist. -9786 Apr 16 i 07:36 13°≈29'21 31.00252 AU -9793 Sep 29 i 21:15 min. Earth dist. 28°る59'31 28.94195 AU direct -9793 Dec 17 i 17:48 27°る34'43 conjunction -9786 Apr 17 i 03:46 13°≈31'14 -2°03'18 evening set -9792 Mar 17 j 12:21 29°る31'45 minimum elong -9786 Apr 17 i 03:47 13°≈31'14 2°03'45 -9792 Mar 30 j 07:23 -9786 May 03 i 04:19 14°≈06'44 0°≈≈ morning rise -9786 May 29 j 12:56 15°**≈** -9792 Apr 02 j 16:55 0°≈07'35 -2°22'39 -9786 Jul 29 j 14:06 16°≈00'10 conjunction retrograde -9792 Apr 02 j 16:56 0°≈07'35 2°23'10 -9786 Sep 30 j 22:19 15°R≈ minimum elong -9792 Apr 02 j 03:31 -9786 Oct 14 j 11:42 max. Earth dist. 0°≈06'20 30.94542 AU opposition 14°≈37'22 -2°09'49 morning rise -9792 Apr 18 j 18:55 0°≈43'13 min. Earth dist. -9786 Oct 15 j 05:42 14°≈36'06 29.00782 AU retrograde -9792 Jul 15 j 18:00 2°≈37'33 direct -9785 Jan 02 j 09:33 13°≈11'39 -9792 Sep 30 j 20:17 1°≈14'19 -2°31'07 -9785 Mar 30 j 10:58 15°≈ opposition -9792 Oct 01 j 08:56 1°≈13'26 28.95283 AU -9785 Apr 03 j 13:39 15°≈08'52 min. Earth dist. evening set -9792 Nov 22 j 22:38 30°Ŗる 29°る48'44 -9785 Apr 19 j 17:13 direct -9792 Dec 19 j 06:28 conjunction 15°≈44'36 -1°59'25 -9791 Jan 14 j 11:05 0°≈ minimum elong -9785 Apr 19 j 17:13 15°**≈**44'36 1°59'53 evening set -9791 Mar 20 j 02:32 1°≈45'50 max. Earth dist. -9785 Apr 18 j 21:07 15°≈42'44 31.01006 AU morning rise -9785 May 05 j 17:25 16°≈20'05 conjunction -9791 Apr 05 j 06:50 2°≈21'39 -2°19'55 retrograde -9785 Jul 31 j 23:29 18°≈13'21 minimum elong -9791 Apr 05 j 06:50 2°≈21'40 2°20'27 opposition -9785 Oct 16 j 22:18 16°≈50'35 -2°05'34 -9791 Apr 04 j 15:27 2°≈20'14 30.95654 AU min. Earth dist. -9785 Oct 17 j 16:33 16°≈49'18 29.01530 AU max. Earth dist. -9791 Apr 21 j 08:46 -9784 Jan 04 j 23:18 15°≈24'50 morning rise 2°≈57'17 direct

Planetary Pheno	omena of Neptune f	from -9900	through -9398	8 (UT). Astrodien	st AG 18-Feb-2025	14:23.	page 10
-	-		_	. //	r 9785 BCE in historical c		
evening set	-9784 Apr 05 j 02:59	17° ≈ 22'01		minimum elong	-9778 May 05 j 11:21	1°) 14'44	1°28'01
max. Earth dist.	-9784 Apr 20 j 08:38	17° ≈ 55'44	31.01785 AU	morning rise	-9778 May 21 j 09:20	1° ¥ 50′01	
				retrograde	-9778 Aug 16 j 05:14	3°) 42'33	
conjunction	-9784 Apr 21 j 06:14	17° ≈ 57'45	-1°55'22	opposition	-9778 Nov 01 j 00:57	2°) 20′20	-1°31'05
minimum elong	-9784 Apr 21 j 06:15	17° ≈ 57'45	1°55'47	min. Earth dist.	-9778 Nov 01 j 21:59	2°) 18′52	29.09001 AU
morning rise	-9784 May 07 j 06:18	18° ≈ 33'12		direct	-9777 Jan 20 j 15:04	0°) 54'45	
retrograde	-9784 Aug 02 j 10:38	20° ≈ 26'19		evening set	-9777 Apr 21 j 22:30	2°) 52′03	
opposition	-9784 Oct 18 j 08:51	19° ≈ 03'35	-2°01'09	C	1 ,		
min. Earth dist.	-9784 Oct 19 j 03:28	19° ≈ 02'17	29.02343 AU	conjunction	-9777 May 07 j 23:57	3°) 27′39	-1°22'35
direct	-9783 Jan 06 j 10:49	17° ≈ 37'48		minimum elong	-9777 May 07 j 23:58	3°) €27'39	1°22'55
evening set	-9783 Apr 07 j 16:13	19° ≈ 34'59		max. Earth dist.	-9777 May 06 j 23:35		31.09466 AU
-				morning rise	-9777 May 23 j 21:33	4°) €02'55	
conjunction	-9783 Apr 23 j 19:25	20°≈10'42	-1°51'08	retrograde	-9777 Aug 18 j 15:06	5°) 55′23	
minimum elong	-9783 Apr 23 j 19:26	20°≈10'42	1°51'34	opposition	-9777 Nov 03 j 11:54	4°) 33'14	-1°25'34
max. Earth dist.	-9783 Apr 22 j 22:27	20°≈08'45	31.02642 AU	min. Earth dist.	-9777 Nov 04 j 10:08	4°) €31'41	29.10090 AU
morning rise	-9783 May 09 j 19:01	20°≈46'07		direct	-9776 Jan 23 j 01:39	3°) €07'41	
retrograde	-9783 Aug 04 j 20:15	22°≈39'06		evening set	-9776 Apr 23 j 11:12	5°) 04'58	
opposition	-9783 Oct 20 j 19:25	21°≈16'26	-1°56'33	-			
min. Earth dist.	-9783 Oct 21 j 14:54	21°≈15′03	29.03237 AU	conjunction	-9776 May 09 j 12:26	5°) 40′33	-1°17'22
direct	-9782 Jan 08 j 23:21	19° ≈ 50'38		minimum elong	-9776 May 09 j 12:26	5°) 40′33	1°17'39
evening set	-9782 Apr 10 j 05:34	21° ≈ 47'49		max. Earth dist.	-9776 May 08 j 12:06	5°) 38'17	31.10498 AU
max. Earth dist.	-9782 Apr 25 j 09:57	22° ≈ 21'25	31.03608 AU	morning rise	-9776 May 25 j 09:38	6°) 15'48	
	1 ,			retrograde	-9776 Aug 20 j 00:02	8°) €08'10	
conjunction	-9782 Apr 26 j 08:21	22° ≈ 23'30	-1°46'45	opposition	-9776 Nov 04 j 22:52	6°) 46′05	-1°19'55
minimum elong	-9782 Apr 26 j 08:22	22° ≈ 23'30	1°47'09	min. Earth dist.	-9776 Nov 05 j 21:28	6°) 44'30	29.11039 AU
morning rise	-9782 May 12 j 07:47	22°≈58'54		direct	-9775 Jan 24 j 15:10	5°) €20'33	
retrograde	-9782 Aug 07 j 08:45	24°≈51'46		evening set	-9775 Apr 26 j 00:04	7°) 17'48	
opposition	-9782 Oct 23 j 06:02	23° ≈ 29'10	-1°51'46	max. Earth dist.	-9775 May 10 j 22:49	7°) € 50'56	31.11392 AU
min. Earth dist.	-9782 Oct 24 j 01:05	23° ≈ 27'49	29.04259 AU				
direct	-9781 Jan 11 j 12:19	22° ≈ 03'23		conjunction	-9775 May 12 j 00:49	7°) 53′22	-1°12'01
evening set	-9781 Apr 12 j 18:29	24°≈00'35		minimum elong	-9775 May 12 j 00:50	7°) 53′22	1°12'19
				morning rise	-9775 May 27 j 21:43	8°) €28'34	
conjunction	-9781 Apr 28 j 21:11	24°≈36'15	-1°42'13	retrograde	-9775 Aug 22 j 10:46	10° ¥ 20'51	
minimum elong	-9781 Apr 28 j 21:11	24° ≈ 36'15	1°42'37	opposition	-9775 Nov 07 j 09:44	8°) 58'48	-1°14'10
max. Earth dist.	-9781 Apr 27 j 23:33	24° ≈ 34'15	31.04691 AU	min. Earth dist.	-9775 Nov 08 j 08:49	8° ¥ 57'11	29.11875 AU
morning rise	-9781 May 14 j 20:07	25°≈11'37		direct	-9774 Jan 27 j 01:51	7°) 33′15	
retrograde	-9781 Aug 09 j 19:19	27°≈04'24		evening set	-9774 Apr 28 j 12:40	9°) 30′28	
opposition	-9781 Oct 25 j 16:48	25°≈41'52	-1°46'50	max. Earth dist.	-9774 May 13 j 11:44	10°) €03'38	31.12178 AU
min. Earth dist.	-9781 Oct 26 j 13:02	25°≈40'27	29.05389 AU		• •		
direct	-9780 Jan 14 j 01:22	24°≈16′08		conjunction	-9774 May 14 j 13:12	10°) 06′00	-1°06'36
evening set	-9780 Apr 14 j 07:34	26°≈13'22		minimum elong	-9774 May 14 j 13:13	10°) 06′00	1°06'51
max. Earth dist.	-9780 Apr 29 j 11:10	26°≈46'54	31.05883 AU	morning rise	-9774 May 30 j 09:33	10°) 41′11	
				retrograde	-9774 Aug 24 j 19:55	12°) 33′22	
conjunction	-9780 Apr 30 j 09:53	26°≈49'01	-1°37'31	opposition	-9774 Nov 09 j 20:50	11°) 11'19	-1°08'18
minimum elong	-9780 Apr 30 j 09:54	26°≈49'01	1°37'53	min. Earth dist.	-9774 Nov 10 j 20:53	11°) 09'39	29.12605 AU
morning rise	-9780 May 16 j 08:40	27° ≈ 24'21		direct	-9773 Jan 29 j 14:11	9°) 45′46	
retrograde	-9780 Aug 11 j 07:15	29°≈17'03		evening set	-9773 May 01 j 01:05	11°) 42'56	
opposition	-9780 Oct 27 j 03:16	27° ≈ 54'37	-1°41'44	max. Earth dist.	-9773 May 15 j 22:13	12°) 15′55	31.12888 AU
min. Earth dist.	-9780 Oct 27 j 22:56	27° ≈ 53'15	29.06600 AU				
direct	-9779 Jan 15 j 14:29	26°≈28'56		conjunction	-9773 May 17 j 01:05	12°) 18′25	-1°01'04
evening set	-9779 Apr 16 j 20:33	28° ≈ 26'12		minimum elong	-9773 May 17 j 01:05	12°) 18′25	1°01'19
				morning rise	-9773 Jun 01 j 21:11	12°) 53′35	
conjunction	-9779 May 02 j 22:42	29°≈01'50	-1°32'40	retrograde	-9773 Aug 27 j 07:26	14°)(45'39	
minimum elong	-9779 May 02 j 22:43	29°≈01'50	1°33'02	opposition	-9773 Nov 12 j 07:44	13°) 23′37	-1°02'22
max. Earth dist.	-9779 May 01 j 23:53	28°≈59'43	31.07113 AU	min. Earth dist.	-9773 Nov 13 j 07:24	13° ¥ 21'58	29.13291 AU
morning rise	-9779 May 18 j 21:02	29° ≈ 37'09		direct	-9772 Feb 01 j 03:23	11°) 58′02	
	-9779 May 29 j 14:52	0°) €		evening set	-9772 May 02 j 13:16	13°) 55′09	
retrograde	-9779 Aug 13 j 17:36	1°) 29′46		max. Earth dist.	-9772 May 17 j 11:00	14°) €28'11	31.13564 AU
opposition	-9779 Oct 29 j 14:07	0°) €07'27	-1°36'29		- •		
min. Earth dist.	-9779 Oct 30 j 11:19		29.07828 AU	conjunction	-9772 May 18 j 13:03	14°) € 30'36	-0°55'28
	-9779 Nov 03 j 00:44	30° R ≈		minimum elong	-9772 May 18 j 13:03	14°) 30′37	
direct	-9778 Jan 18 j 01:59	28° ≈ 41'49		morning rise	-9772 Jun 03 j 08:33	15°) €05'43	
	-9778 Mar 31 j 13:21	0° ∀		retrograde	-9772 Aug 28 j 17:00	16° ¥ 57'42	
evening set	-9778 Apr 19 j 09:32	0°) 39′06		opposition	-9772 Nov 13 j 18:38	15°) 35′39	-0°56'20
max. Earth dist.	-9778 May 04 j 11:55		31.08333 AU	min. Earth dist.	-9772 Nov 14 j 19:28		29.13967 AU
	-			direct	-9771 Feb 02 j 16:23	14°) (10′03	
conjunction	-9778 May 05 j 11:20	1°) (14'43	-1°27'42	evening set	-9771 May 05 j 01:29	16°) €07'07	
	-				-		

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 11 Attention, astronomical year style is used: The year -9771 in astronomical counting style is the year 9772 BCE in historical counting style.

Attention, astronomi	ical year style is used: Th	e year -9771 i	n astronomical cou	inting style is the year	9772 BCE in historical c	ounting style.	
max. Earth dist.	-9771 May 19 j 21:51	16°) 40′02	31.14268 AU	max. Earth dist.	-9765 Jun 02 j 19:00	29°) 49′14	31.20046 AU
					-9765 Jun 07 j 14:20	0° Y	
conjunction	-9771 May 21 j 00:43	16°) 42′32	-0°49'47	morning rise	-9765 Jun 19 j 12:35	0° Y 26′28	
minimum elong	-9771 May 21 j 00:43	16°) 42′32	0°50'00	retrograde	-9765 Sep 13 j 15:34	2° Y 18'11	
morning rise	-9771 Jun 05 j 19:56	17° ∺ 17'37		opposition	-9765 Nov 30 j 00:38	0° Y 56′24	-0°12'25
retrograde	-9771 Aug 31 j 04:13	19° ₩ 09'30		min. Earth dist.	-9765 Dec 01 j 01:17	0° Υ 54'42	29.20558 AU
opposition	-9771 Nov 16 j 05:35	17°) 47′27	-0°50'14		-9764 Jan 06 j 08:04	30° ₹	
min. Earth dist.	-9771 Nov 17 j 05:24		29.14692 AU	direct	-9764 Feb 19 j 06:02	29° ¥ 31′06	
direct	-9770 Feb 05 j 05:40	16° ¥ 21'51			-9764 Apr 02 j 04:19	$0^{\circ}\Upsilon$	
evening set	-9770 May 07 j 13:25	18° ¥ 18'51		evening set	-9764 May 20 j 11:46	1° Y ′27'56	
max. Earth dist.	-9770 May 22 j 09:54		31.15030 AU	max. Earth dist.	-9764 Jun 04 j 04:46	2° Y ′00'37	31.20979 AU
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
conjunction	-9770 May 23 j 12:15	18°) 54'14	-0°44'03	conjunction	-9764 Jun 05 j 07:28	2° Y '03'06	-0°08'36
minimum elong	-9770 May 23 j 12:16	18° ¥ 54'14	0°44'13	minimum elong	-9764 Jun 05 j 07:28	2° Y '03'06	0°08'38
morning rise	-9770 Jun 08 j 06:52	19° ¥ 29'17		behind sun begin	-9764 Jun 05 j 01:49	2° Y '02'36	
retrograde	-9770 Sep 02 j 14:19	21° ∺ 21′06		behind sun end	-9764 Jun 05 j 13:06	2° Y '03'36	
opposition	-9770 Nov 18 j 16:43	19°) 59'04	-0°44'03	morning rise	-9764 Jun 20 j 23:13	2° Y '37'56	
min. Earth dist.	-9770 Nov 19 j 17:23		29.15508 AU	retrograde	-9764 Sep 15 j 02:54	4° Y ′29'38	
direct	-9769 Feb 07 j 18:10	18°) €33'29	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	opposition	-9764 Dec 01 j 11:50	3° Y ′07'54	-0°06'00
evening set	-9769 May 10 j 01:18	20°) € 30′26		min. Earth dist.	-9764 Dec 02 j 11:58		29.21433 AU
evening sec	7707 May 10 J 01:10	20 7(3020		direct	-9763 Feb 20 j 17:54	1° Υ 42'38	29.21 133 110
conjunction	-9769 May 25 j 23:39	21°) €05'47	-0°38'15	evening set	-9763 May 22 j 23:18	3° Y '39'26	
minimum elong	-9769 May 25 j 23:40	21°\tag{05'47}		evening set	7703 Way 22 j 23.10	3 13720	
max. Earth dist.	-9769 May 24 j 21:26		31.15911 AU	conjunction	-9763 Jun 07 j 18:35	4° Υ 14'35	-0°02'37
morning rise	-9769 Jun 10 j 17:52	21° H 40'47	31.13911 AU	minimum elong	-9763 Jun 07 j 18:35	4°Υ14'35	
•	-9769 Sep 05 j 01:22	23°\(\frac{1}{4047}\)		behind sun begin	-9763 Jun 07 j 12:07	4°Υ14'00	0 02 39
retrograde	-9769 Nov 21 j 03:42	23 K 3233 22° X 10'33	0027140	behind sun begin	-9763 Jun 08 j 01:03	4° Υ 15'09	
opposition	-						31.21782 AU
min. Earth dist.	-9769 Nov 22 j 03:27		29.16432 AU	max. Earth dist.	-9763 Jun 06 j 16:41	4° Υ 49'22	31.21/82 AU
direct	-9768 Feb 10 j 08:00	20°) 44′59		morning rise	-9763 Jun 23 j 09:37		
evening set	-9768 May 11 j 13:04	22°\(\)41'55	21 16000 411	retrograde	-9763 Sep 17 j 12:38	6° Y 41'05	
max. Earth dist.	-9768 May 26 j 08:34	23° 大 14'46	31.16890 AU	asc. node	-9763 Nov 10 j 23:41	5°Υ55'55	000012.5
	0.000	222)/15111	000000	opposition	-9763 Dec 03 j 23:25	5°Υ19'20	0°00'25
conjunction	-9768 May 27 j 10:56	23° ¥ 17'14		min. Earth dist.	-9763 Dec 05 j 00:41		29.22173 AU
minimum elong	-9768 May 27 j 10:56	23° ∺ 17'14	0°32'31	direct	-9762 Feb 23 j 06:01	3° ℃ 54'08	
morning rise	-9768 Jun 12 j 04:41	23° ¥ 52′12		evening set	-9762 May 25 j 10:46	5° Y 50′53	
retrograde	-9768 Sep 06 j 10:56	25°) 43′56		max. Earth dist.	-9762 Jun 09 j 02:41	6°'Y'23'29	31.22465 AU
opposition	-9768 Nov 22 j 14:47	24° ¥ 21'58					
min. Earth dist.	-9768 Nov 23 j 15:01		29.17457 AU	conjunction	-9762 Jun 10 j 05:20	6° Y 25′58	
direct	-9767 Feb 11 j 18:52	22° ¥ 56′28		minimum elong	-9762 Jun 10 j 05:19		0°03'32
evening set	-9767 May 14 j 00:46	24°) 53′23		behind sun begin	-9762 Jun 09 j 22:54	6° Y 25'24	
				behind sun end	-9762 Jun 10 j 11:44	6° Y 26'32	
conjunction	-9767 May 29 j 22:13	25° ∺ 28'39		morning rise	-9762 Jun 25 j 19:56	7° Y ′00'43	
minimum elong	-9767 May 29 j 22:14	25°) 28'40		retrograde	-9762 Sep 19 j 23:52	8° Y 52'25	
max. Earth dist.	-9767 May 28 j 20:41		31.17949 AU	opposition	-9762 Dec 06 j 10:53	7° Ƴ 30'41	0°06'49
morning rise	-9767 Jun 14 j 15:25	26°) €03'35		min. Earth dist.	-9762 Dec 07 j 11:08		29.22793 AU
retrograde	-9767 Sep 08 j 19:41	27° ¥ 55′18		direct	-9761 Feb 25 j 18:52	6° Y 05'30	
opposition	-9767 Nov 25 j 01:55	26° ∺ 33'25		evening set	-9761 May 27 j 22:02	8° Y 02'12	
min. Earth dist.	-9767 Nov 26 j 01:58		29.18515 AU				
direct	-9766 Feb 14 j 07:50	25° ∺ 07'59		conjunction	-9761 Jun 12 j 16:06	8° Ƴ 37'14	0°09'30
evening set	-9766 May 16 j 12:35	27°) € 04'52		minimum elong	-9761 Jun 12 j 16:06	8° Ƴ 37'14	0°09'30
max. Earth dist.	-9766 May 31 j 06:54	27°) € 37'39	31.19017 AU	behind sun begin	-9761 Jun 12 j 10:42	8° Y 36'45	
				behind sun end	-9761 Jun 12 j 21:30	8° Ƴ 37'43	
conjunction	-9766 Jun 01 j 09:23	27°) (40′07	-0°20'32	max. Earth dist.	-9761 Jun 11 j 13:48	8° Y 34'47	31.23032 AU
minimum elong	-9766 Jun 01 j 09:23	27°) 40′07	0°20'37	morning rise	-9761 Jun 28 j 06:05	9° Ƴ 11'57	
morning rise	-9766 Jun 17 j 02:10	28° ¥ 15′01		retrograde	-9761 Sep 22 j 10:15	11° Y 03'39	
	-9766 Aug 22 j 13:59	0° Y		opposition	-9761 Dec 08 j 22:22	9° Ƴ 41'54	0°13'12
retrograde	-9766 Sep 11 j 06:35	0° Y 06'43		min. Earth dist.	-9761 Dec 09 j 23:36	9° Y 40'10	29.23330 AU
	-9766 Oct 01 j 04:47	30° ₹ ₩		direct	-9760 Feb 28 j 07:32	8° Y 16'43	
opposition	-9766 Nov 27 j 13:12	28°) 44′53	-0°18'49	evening set	-9760 May 29 j 09:09	10° Y 13′21	
min. Earth dist.	-9766 Nov 28 j 13:08		29.19578 AU	max. Earth dist.	-9760 Jun 13 j 00:30	10° Ƴ 45'54	31.23542 AU
direct	-9765 Feb 16 j 17:56	27° ¥ 19'31			,		
evening set	-9765 May 19 j 00:02	29° ¥ 16′23		conjunction	-9760 Jun 14 j 02:37	10° Ƴ 48'21	0°15'26
-	. ,			minimum elong	-9760 Jun 14 j 02:37	10° Ƴ 48'21	0°15'30
conjunction	-9765 Jun 03 j 20:27	29° ¥ 51'36	-0°14'34	behind sun begin	-9760 Jun 14 j 00:49	10° Ƴ 48'11	
minimum elong	-9765 Jun 03 j 20:27	29° ¥ 51'36		behind sun end	-9760 Jun 14 j 04:24	10° Ƴ 48'30	
behind sun begin	-9765 Jun 03 j 17:44	29° ¥ 51'21		morning rise	-9760 Jun 29 j 16:07	11° Y °23'01	
behind sun end	-9765 Jun 03 j 23:11	29° ¥ 51'51		retrograde	-9760 Sep 23 j 21:11	13° Ƴ 14'41	
	•			-			

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 12								
•	nical year style is used: Th		•					
opposition	-9760 Dec 10 j 09:47	11° Y ′52'55		minimum elong	-9753 Jun 30 j 00:50	26° Y ′03'07	0°56'11	
min. Earth dist.	-9760 Dec 11 j 10:08		29.23811 AU	morning rise	-9753 Jul 15 j 10:21	26° Y 37'31	0 0011	
direct	-9759 Mar 01 j 21:56	10° Υ 27'45	2).23011 AU	retrograde	-9753 Oct 09 j 17:21	28° Υ 29'29		
		10 1 27 43 12° Υ 24'19		-		27° Υ '07'47	1°02'44	
evening set	-9759 May 31 j 20:09		21 24016 444	opposition	-9753 Dec 26 j 19:21			
max. Earth dist.	-9759 Jun 15 j 10:48	125 1 36 30	31.24016 AU	min. Earth dist.	-9753 Dec 27 j 16:11		29.28831 AU	
				direct	-9752 Mar 17 j 06:03	25° Y '43'02		
conjunction	-9759 Jun 16 j 12:57	12° Y ′59′16	0°21'22	evening set	-9752 Jun 15 j 22:25	27° Y 39'16		
minimum elong	-9759 Jun 16 j 12:57	12° Y ′59′16	0°21'26					
morning rise	-9759 Jul 02 j 01:52	13° Ƴ 33'54		conjunction	-9752 Jul 01 j 10:44	28° Ƴ 13'54	1°01'32	
retrograde	-9759 Sep 26 j 06:29	15° Y 25'34		minimum elong	-9752 Jul 01 j 10:43	28° Ƴ 13'54	1°01'46	
opposition	-9759 Dec 12 j 21:20	14° Y 03'47	0°25'54	max. Earth dist.	-9752 Jun 30 j 12:43	28° Y 11′50	31.29148 AU	
min. Earth dist.	-9759 Dec 13 j 21:51	14° Y ′02'06	29.24310 AU	morning rise	-9752 Jul 16 j 19:34	28° Y '48'15		
direct	-9758 Mar 04 j 09:14	12° Y 38'38		-	-9752 Aug 22 j 22:12	0°B		
evening set	-9758 Jun 03 j 06:59	14° Y 35'07		retrograde	-9752 Oct 11 j 04:31	0° 8 40'18		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-9752 Dec 01 j 16:35	30° R Υ		
conjunction	-9758 Jun 18 j 23:14	15° Y °10′02	0°27'16	opposition	-9752 Dec 28 j 07:26	29° Υ 18'36	1°08'36	
minimum elong	-9758 Jun 18 j 23:14			min. Earth dist.	-9752 Dec 29 j 04:59		29.29561 AU	
_						27° Υ 53'56	29.29301 AU	
max. Earth dist.	-9758 Jun 17 j 22:24		31.24539 AU	direct	-9751 Mar 19 j 18:14			
morning rise	-9758 Jul 04 j 11:31	15° Y ′44'37		evening set	-9751 Jun 18 j 08:53	29° Y ′50′07		
retrograde	-9758 Sep 28 j 14:45	17° Y ′36′17			-9751 Jun 22 j 20:29	9° 8		
opposition	-9758 Dec 15 j 08:56	16° Ƴ 14'29	0°32'11					
min. Earth dist.	-9758 Dec 16 j 08:43	16° Ƴ 12'52	29.24866 AU	conjunction	-9751 Jul 03 j 20:30	0° 8 24'41	1°06'59	
direct	-9757 Mar 06 j 22:41	14° Ƴ 49'22		minimum elong	-9751 Jul 03 j 20:29	0° 8 24'41	1°07'13	
evening set	-9757 Jun 05 j 17:40	16° Ƴ 45'47		max. Earth dist.	-9751 Jul 02 j 22:55	0° 8 22'40	31.29810 AU	
max. Earth dist.	-9757 Jun 20 j 07:59	17° Ƴ 18'18	31.25144 AU	morning rise	-9751 Jul 19 j 04:45	0° 8 59'00		
	·			retrograde	-9751 Oct 13 j 15:45	2° 8 51'07		
conjunction	-9757 Jun 21 j 09:09	17° Y ′20'39	0°33'07	opposition	-9751 Dec 30 j 19:30	1° 8 29'25	1°14'23	
minimum elong	-9757 Jun 21 j 09:09	17° Y ′20'39	0°33'13	min. Earth dist.	-9751 Dec 31 j 16:03	1° 8 28'01		
morning rise	-9757 Jul 06 j 20:59	17° Y '55'12	0 33 13	direct	-9750 Mar 22 j 08:00	_	27.501 17 110	
-	-9757 Oct 01 j 01:14	19° Y 46'54			-9750 Jun 20 j 19:23	2° 8 00'56		
retrograde	·		0020125	evening set	,	_	21 20221 ATT	
opposition	-9757 Dec 17 j 20:28	18° Y 25'06	0°38'25	max. Earth dist.	-9750 Jul 05 j 08:29	2°033'25	31.30321 AU	
min. Earth dist.	-9757 Dec 18 j 19:24		29.25535 AU					
direct	-9756 Mar 08 j 09:03	17° Y ′00′02		conjunction	-9750 Jul 06 j 06:16	2° 8 35'27		
evening set	-9756 Jun 07 j 04:16	18° Y 56′24		minimum elong	-9750 Jul 06 j 06:16		1°12'36	
				morning rise	-9750 Jul 21 j 13:59	3° 8 09'44		
conjunction	-9756 Jun 22 j 19:17	19° Ƴ 31'13		retrograde	-9750 Oct 16 j 02:06	5° 8 01'55		
minimum elong	-9756 Jun 22 j 19:17	19° Ƴ 31'13	0°39'04	opposition	-9749 Jan 02 j 07:42	3° 8 40'11	1°20'03	
max. Earth dist.	-9756 Jun 21 j 19:45	19° Ƴ 29'01	31.25859 AU	min. Earth dist.	-9749 Jan 03 j 04:26	3° 8 38'47	29.30609 AU	
morning rise	-9756 Jul 08 j 06:23	20° Y °05'43		direct	-9749 Mar 24 j 19:09	2° 8 15'37		
retrograde	-9756 Oct 02 j 09:34	21° Y 57'28		evening set	-9749 Jun 23 j 05:35	4° 8 11'39		
opposition	-9756 Dec 19 j 08:02	20° Ƴ 35'41	0°44'36	Č	,			
min. Earth dist.	-9756 Dec 20 j 07:00		29.26296 AU	conjunction	-9749 Jul 08 j 15:56	4° 8 46'08	1°17'35	
direct	-9755 Mar 10 j 21:12	19° Υ 10'41	27.20270710	minimum elong	-9749 Jul 08 j 15:55	_		
evening set	-9755 Jun 09 j 14:59	21° Υ '07'01		max. Earth dist.	-9749 Jul 07 j 19:21		31.30703 AU	
•			31.26670 AU		-	5° 8 20'22	31.30703 AU	
max. Earth dist.	-9755 Jun 24 j 05:15	21 1 39 33	31.200/U AU	morning rise	-9749 Jul 23 j 23:01			
	0755 1 25:25:	21000	0044147	retrograde	-9749 Oct 18 j 11:09		100.512.5	
conjunction	-9755 Jun 25 j 05:10	21° Y 41'47	0°44'41	opposition	-9748 Jan 04 j 19:51	5° 8 50'51		
minimum elong	-9755 Jun 25 j 05:10	21° Υ 41'47	0°44'49	min. Earth dist.	-9748 Jan 05 j 16:06		29.30919 AU	
morning rise	-9755 Jul 10 j 15:51	22° Y 16′15		direct	-9748 Mar 26 j 09:20			
retrograde	-9755 Oct 04 j 20:19	24° Y ′08'04		evening set	-9748 Jun 24 j 15:54			
opposition	-9755 Dec 21 j 19:41	22° Y 46'18	0°50'43	max. Earth dist.	-9748 Jul 09 j 04:14	6° 8 54'42	31.30953 AU	
min. Earth dist.	-9755 Dec 22 j 17:20	22° Y '44'50	29.27142 AU					
direct	-9754 Mar 13 j 07:49	21° Y '21'24		conjunction	-9748 Jul 10 j 01:27	6° 8 56'42	1°22'43	
evening set	-9754 Jun 12 j 01:21	23° Y 17'41		minimum elong	-9748 Jul 10 j 01:26	6° 8 56'42	1°23'01	
Č	,			morning rise	-9748 Jul 25 j 08:07	7° 8 30'53		
conjunction	-9754 Jun 27 j 15:02	23° Y ′52'25	0°50'22	retrograde	-9748 Oct 19 j 22:02			
minimum elong	-9754 Jun 27 j 15:02	23° Y '52'25		opposition	-9747 Jan 06 j 07:51		1°31'02	
max. Earth dist.	-9754 Jun 26 j 16:39		31.27525 AU	min. Earth dist.	-9747 Jan 00 j 07:31		29.31134 AU	
	·	23 γ 30 19 24° γ 26'51	31.21323 AU		-		27.31134 AU	
morning rise	-9754 Jul 13 j 00:59			direct	-9747 Mar 28 j 20:46			
retrograde	-9754 Oct 07 j 05:57	26° Y 18'44	005646	evening set	-9747 Jun 27 j 01:55	8° 8 32'43		
opposition	-9754 Dec 24 j 07:39	24° Y ′57′00	0°56'46					
min. Earth dist.	-9754 Dec 25 j 05:50		29.28005 AU	conjunction	-9747 Jul 12 j 10:59			
direct	-9753 Mar 15 j 18:17	23° Y '32'11		minimum elong	-9747 Jul 12 j 10:59			
evening set	-9753 Jun 14 j 11:57	25° Y ′28′27		max. Earth dist.	-9747 Jul 11 j 15:25		31.31125 AU	
max. Earth dist.	-9753 Jun 29 j 02:20	26° Y ′01′01	31.28378 AU	morning rise	-9747 Jul 27 j 16:56	9° 8 41'14		
				retrograde	-9747 Oct 22 j 06:17	11° 8 33'36		
conjunction	-9753 Jun 30 j 00:51	26° Y °03′07	0°56'00	opposition	-9746 Jan 08 j 20:10	10° 8 11'44	1°36'19	
	-				•			

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9746 in astronomical counting style is the year 9747 BCE in historical counting style. 10°**8**10'24 29.31288 AU min. Earth dist. -9746 Jan 09 j 15:43 conjunction -9740 Jul 27 i 02:44 24°**8**18'39 1°58'55 minimum elong -9746 Mar 31 j 09:35 8°847'14 -9740 Jul 27 j 02:44 24°**8**18'39 1°59'21 direct -9746 Jun 29 j 11:51 10°843'00 -9740 Jul 26 j 13:16 24°817'23 31.33195 AU evening set max. Earth dist. -9740 Aug 11 j 05:15 24°**8**52'35 morning rise -9746 Jul 14 j 20:06 11°**8**17'20 1°32'37 -9740 Nov 06 j 09:06 26°**8**45'45 conjunction retrograde -9746 Jul 14 j 20:06 11°**8**17'20 1°32'57 -9739 Jan 24 j 10:27 25°**8**23'46 minimum elong opposition 2°09'05 -9746 Jul 14 j 00:24 11°**8**15'29 31.31275 AU -9739 Jan 24 j 23:56 25°**8**22'52 29.33472 AU max. Earth dist. min. Earth dist. -9746 Jul 30 j 01:42 11°**8**51'26 23°**8**59'48 morning rise direct -9739 Apr 15 j 18:16 13°**8**43'52 -9739 Jul 14 j 07:44 25°**8**55'14 retrograde -9746 Oct 24 j 16:37 evening set opposition -9745 Jan 11 j 08:22 12°**8**21'57 1°41'28 min. Earth dist. -9745 Jan 12 j 02:17 12°**8**20'44 29.31458 AU conjunction -9739 Jul 29 j 11:46 26°**8**29'17 2°02'44 2°03'10 -9745 Apr 02 j 20:32 10°857'29 -9739 Jul 29 j 11:45 26°**8**29'17 direct minimum elong -9745 Jul 01 j 21:40 12°**8**53'10 -9739 Jul 28 j 21:52 26°**8**27'58 31.33441 AU evening set max. Earth dist. max. Earth dist. -9745 Jul 16 j 11:24 13°**8**25'46 31.31452 AU morning rise -9739 Aug 13 j 14:00 27°803'11 retrograde -9739 Nov 08 j 21:23 28°856'30 conjunction -9745 Jul 17 j 05:24 13°**8**27'27 1°37'22 opposition -9738 Jan 26 j 23:09 27°**8**34'30 2°13'05 minimum elong -9745 Jul 17 j 05:24 13°**8**27'27 1°37'42 min. Earth dist. -9738 Jan 27 j 11:43 27°833'39 29.33670 AU morning rise -9745 Aug 01 j 10:19 14°**8**01'31 -9738 Apr 18 j 05:43 26°810'36 -9745 Aug 30 j 11:05 15°8 evening set -9738 Jul 16 j 17:11 28°805'58 retrograde -9745 Oct 27 j 01:55 15°**8**54'03 -9745 Dec 27 j 07:05 15°R conjunction -9738 Jul 31 j 20:52 28°**8**39'59 2°06'23 opposition -9744 Jan 13 j 20:32 14°**8**32'05 1°46'28 minimum elong -9738 Jul 31 i 20:51 28°**8**39'59 2°06'51 min. Earth dist. -9744 Jan 14 i 14:36 14°830'51 29.31681 AU max. Earth dist. -9738 Jul 31 i 08:34 28°838'49 31.33552 AU direct -9744 Apr 04 i 06:54 13°**8**07'39 morning rise -9738 Aug 15 j 22:33 29°813'51 -9744 Jul 01 i 19:37 15°8 -9738 Sep 07 j 03:37 $0^{\circ}II$ -9744 Jul 03 j 07:29 15°**8**03'16 -9738 Nov 11 j 06:09 1°**Ⅱ**07'18 retrograde evening set -9737 Jan 20 j 07:38 30°R₩ -9744 Jul 18 j 14:32 15°**8**37'31 1°41'59 -9737 Jan 29 j 11:58 29°**8**45'16 2°16'53 conjunction opposition -9744 Jul 18 j 14:31 -9737 Jan 30 j 00:34 29°844'25 29.33708 AU 15°**8**37'31 1°42'21 min. Earth dist. minimum elong 28°**8**21'26 -9744 Jul 17 j 20:58 15°**8**35'52 31.31713 AU -9737 Apr 20 j 18:22 max. Earth dist. direct -9744 Aug 02 j 19:02 -9737 Jul 11 j 09:50 16°**8**11'33 $0^{\circ}\Pi$ morning rise -9744 Oct 28 j 13:02 -9737 Jul 19 j 02:53 0°**I**16'43 18°**8**04'11 evening set retrograde -9743 Jan 15 j 08:43 16°**8**42'12 1°51'19 opposition -9737 Aug 03 j 05:55 0°П50'42 2°09'51 -9743 Jan 16 j 00:43 16°**8**41'07 29.31984 AU min. Earth dist. conjunction -9743 Apr 06 j 18:26 15°**8**17'51 -9737 Aug 03 j 05:54 0°II50'42 2°10'19 direct minimum elong -9737 Aug 02 j 17:15 -9743 Jul 05 j 17:08 17°**8**13'25 0°**Д**49'30 31.33512 AU evening set max. Earth dist. -9737 Aug 18 j 07:23 1°**Ⅱ**24'33 morning rise conjunction -9743 Jul 20 j 23:35 17°**8**47'37 1°46'27 retrograde -9737 Nov 13 j 16:33 3°**Ⅱ**18′06 minimum elong -9743 Jul 20 j 23:34 17°**8**47'37 1°46'49 opposition -9736 Feb 01 j 00:28 1°II56'01 2°20'30 max. Earth dist. -9743 Jul 20 j 07:04 17°**8**46'03 31.32043 AU min. Earth dist. -9736 Feb 01 j 11:43 1°**Д**55'16 29.33597 AU morning rise -9743 Aug 05 j 03:32 18°**8**21'37 direct -9736 Apr 22 j 05:36 $0^{\circ} \mathbf{I} 32'13$ -9743 Oct 31 j 00:25 20°**8**14'23 -9736 Jul 20 j 12:22 2°**Ⅲ**27′25 retrograde evening set -9742 Jan 17 j 21:10 18°**8**52'23 1°56'01 opposition min. Earth dist. -9742 Jan 18 j 13:09 18°**8**51'18 29.32361 AU -9736 Aug 04 j 15:02 3°II01'22 2°13'09 conjunction -9742 Apr 09 j 05:34 17°**8**28'07 -9736 Aug 04 j 15:01 3°II01'22 2°13'38 direct minimum elong -9742 Jul 08 i 02:47 -9736 Aug 04 i 03:38 3°**Д**00'17 31.33312 AU evening set 19°**8**23'39 max. Earth dist. 3°**Ⅱ**35'12 morning rise -9736 Aug 19 j 16:02 -9742 Jul 23 i 08:40 19°857'49 1°50'46 5°**Ⅱ**28'52 conjunction retrograde -9736 Nov 15 j 02:12 -9742 Jul 23 i 08:39 4°П06'42 2°23'55 minimum elong 19°**8**57'49 1°51'10 opposition -9735 Feb 02 i 13:19 max. Earth dist. -9742 Jul 22 i 17:22 19°856'22 31.32444 AU min. Earth dist. -9735 Feb 03 i 00:56 4°П05'55 29.33340 AU -9742 Aug 07 j 12:08 20°**8**31'47 direct -9735 Apr 24 j 16:31 2°**Ⅱ**42'55 morning rise evening set -9742 Nov 02 j 12:02 22°**8**24'41 -9735 Jul 22 j 21:42 4°**Ⅲ**38′00 retrograde -9741 Jan 20 j 09:30 21°**8**02'42 2°00'33 opposition 21°801'43 29.32771 AU min. Earth dist. -9741 Jan 20 j 23:55 conjunction -9735 Aug 06 j 23:50 5°**I**11'55 2°16'14 direct -9741 Apr 11 j 18:00 19°**8**38'32 minimum elong -9735 Aug 06 j 23:50 5°**I**11'55 2°16'44 evening set -9741 Jul 10 j 12:24 21°**8**34'02 max. Earth dist. -9735 Aug 06 j 12:56 5°**Ⅱ**10'53 31.33002 AU morning rise -9735 Aug 22 j 00:36 5°**Ⅱ**45'44 -9741 Jul 25 j 17:38 22°808'09 1°54'55 -9735 Nov 17 j 13:05 7°**Ⅲ**39'30 conjunction retrograde -9741 Jul 25 j 17:37 22°808'09 1°55'20 -9734 Feb 05 j 02:03 6°**I**17'15 2°27'07 minimum elong opposition -9741 Jul 25 j 02:33 22°806'44 31.32844 AU -9734 Feb 05 j 11:44 6°**Д**16'36 29.32988 AU max. Earth dist. min. Earth dist. -9741 Aug 09 j 20:44 22°**8**42'07 4°**I**53'28 morning rise direct -9734 Apr 27 j 04:32 24°835'09 retrograde -9741 Nov 04 j 23:08 evening set -9734 Jul 25 j 06:58 6°**Ⅱ**48'26 opposition -9740 Jan 22 j 21:58 23°**8**13'10 2°04'54 min. Earth dist. -9740 Jan 23 j 12:11 23°**8**12'12 29.33168 AU conjunction -9734 Aug 09 j 08:41 7°**Ⅲ**22'19 2°19'08 direct -9740 Apr 13 j 04:23 21°**8**49'06 minimum elong -9734 Aug 09 j 08:41 7°**Ⅲ**22'19 2°19'39 -9740 Jul 11 j 21:58 23°**8**44'34 max. Earth dist. -9734 Aug 08 j 22:35 7°**Ⅲ**21'22 31.32614 AU evening set -9734 Aug 24 j 09:09 7°II56'06 morning rise

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9734 in astronomical counting style is the year 9735 BCE in historical counting style. -9734 Nov 20 i 00:15 9°**Ⅱ**49'59 minimum elong -9727 Aug 23 j 21:42 22°**II**33'59 2°34'14 retrograde -9733 Feb 07 j 14:50 8°II27'38 2°30'07 max. Earth dist. -9727 Aug 23 j 19:30 22°**Д**33'47 31.31089 AU opposition -9733 Feb 08 j 00:31 8°**Д**26'58 29.32608 AU -9727 Sep 07 j 20:55 23°**Ⅲ**07'43 min. Earth dist. morning rise 7°**Ⅱ**03'51 -9727 Dec 05 j 05:18 25°**Ⅲ**02'35 -9733 Apr 29 j 15:05 direct retrograde 23°**II**39'53 2°44'53 -9733 Jul 27 j 16:03 8°**I**I58'43 -9726 Feb 23 j 08:35 evening set opposition -9726 Feb 23 j 10:56 23°**Ⅲ**39'43 29.31195 AU min. Earth dist. 9°II32'34 2°21'50 conjunction -9733 Aug 11 j 17:27 direct -9726 May 14 j 23:45 22°**Ⅱ**16'32 minimum elong -9733 Aug 11 j 17:26 9°**I**32'34 2°22'21 evening set -9726 Aug 11 j 07:18 24°**I**10′55 max. Earth dist. -9733 Aug 11 j 08:51 9°**Ⅲ**31'45 31.32235 AU morning rise -9733 Aug 26 j 17:36 10°**I**106′20 conjunction -9726 Aug 26 j 06:38 24°**Ⅱ**44'39 2°34'54 retrograde -9733 Nov 22 j 11:13 12°**Ⅱ**00′19 minimum elong -9726 Aug 26 j 06:38 24°**Ⅱ**44'38 2°35'28 -9732 Feb 10 j 03:30 -9726 Aug 26 j 05:03 opposition 10°**II**37'52 2°32'54 max. Earth dist. 24°**Ⅱ**44'29 31.30839 AU -9726 Sep 10 j 05:49 min. Earth dist. -9732 Feb 10 j 11:19 10°**耳**37'20 29.32244 AU morning rise 25°**Ⅱ**18'23 direct -9732 May 01 j 02:55 9°**Ⅱ**14'06 retrograde -9726 Dec 07 j 16:47 27°**Ⅲ**13'24 evening set -9732 Jul 29 j 01:12 11°**Ⅲ**08'53 opposition -9725 Feb 25 j 21:26 25°**Ⅱ**50'40 2°46'04 min. Earth dist. -9725 Feb 25 j 21:58 25°**Ц**50'38 29.30886 AU conjunction -9732 Aug 13 j 02:04 11°**耳**42'42 2°24'20 direct -9725 May 17 j 11:06 24°**Ⅲ**27'22 minimum elong -9732 Aug 13 j 02:04 11°**Ⅱ**42'42 2°24'52 evening set -9725 Aug 13 j 16:23 26°**Ⅲ**21'41 max. Earth dist. -9732 Aug 12 j 17:53 11°**II**41'55 31.31893 AU morning rise -9732 Aug 28 j 02:04 12°**Ⅱ**16'27 conjunction -9725 Aug 28 j 15:32 26°II55'25 2°35'54 retrograde -9732 Nov 23 j 22:39 14°**Ⅱ**10'33 minimum elong -9725 Aug 28 j 15:32 26°**Ⅱ**55'25 2°36'28 opposition -9731 Feb 11 i 16:14 12°**II**48'01 2°35'28 max. Earth dist. -9725 Aug 28 j 14:19 26°П55'18 31.30454 AU min. Earth dist. -9731 Feb 11 i 23:20 12°**Ⅱ**47'33 29.31959 AU morning rise -9725 Sep 12 j 14:46 27°**Ⅲ**29'10 direct -9731 May 03 j 13:28 11°**Ⅱ**24'18 retrograde -9725 Dec 10 i 04:36 29°**Ⅲ**24'20 evening set -9731 Jul 31 j 10:12 13°**Ⅱ**19'00 opposition -9724 Feb 28 i 10:32 28°**I**101'32 2°47'01 -9724 Feb 28 j 11:17 28°**Ⅱ**01'29 29.30440 AU min. Earth dist. -9731 Aug 15 j 10:53 13°**Ц**52'47 2°26'38 -9724 May 18 j 20:59 conjunction direct 26°∏38'17 -9731 Aug 15 j 10:52 13°**I**I52'47 2°27'09 evening set -9724 Aug 15 j 01:23 28°**Ⅲ**32'31 minimum elong -9731 Aug 15 j 04:52 13°**Д**52'13 31.31647 AU max. Earth dist. 29°**II**06'15 2°36'41 -9731 Aug 30 j 10:31 14°**Ⅱ**26'31 -9724 Aug 30 j 00:30 morning rise conjunction -9731 Nov 26 j 09:21 16°**Ⅲ**20'45 -9724 Aug 30 j 00:30 minimum elong 29°**I**106'15 2°37'16 retrograde 29°**Ⅱ**06'15 31.29937 AU -9730 Feb 14 j 05:03 14°**耳**58'10 2°37'48 -9724 Aug 30 j 00:35 max. Earth dist. opposition min. Earth dist. 14°**П**57'47 29.31754 AU morning rise -9724 Sep 13 j 23:39 -9730 Feb 14 j 10:45 29°**Ⅱ**40′00 -9730 May 06 j 02:49 13°**Ⅲ**34'30 -9724 Sep 23 j 04:40 direct 0°9 -9730 Aug 02 j 19:12 15°**Ⅲ**29'08 -9724 Dec 11 j 16:04 evening set retrograde 1°935'18 -9723 Mar 01 j 23:32 opposition 0°9512'26 2°47'44 -9730 Aug 17 j 19:25 16°**Ⅲ**02'54 2°28'43 -9723 Mar 01 j 22:44 0°512'29 29.29848 AU conjunction min. Earth dist. minimum elong -9730 Aug 17 j 19:24 16°**I**02'54 2°29'16 -9723 Mar 09 j 17:09 30°RⅡ max. Earth dist. -9730 Aug 17 j 13:32 16°**耳**02'21 31.31483 AU direct -9723 May 21 j 08:16 28°**Ⅱ**49'13 morning rise -9730 Sep 01 j 19:05 16°**Ⅲ**36'38 -9723 Jul 27 j 16:56 0ಂತಾ retrograde -9730 Nov 28 j 22:01 18°**Ⅲ**31′01 evening set -9723 Aug 17 j 10:28 0°543'22 -9729 Feb 16 j 17:51 17°**Ⅱ**08'23 2°39'55 opposition min. Earth dist. -9729 Feb 16 j 22:07 17°**Д**08'06 29.31630 AU -9723 Sep 01 j 09:22 1°9517'05 2°37'14 conjunction -9729 May 08 j 13:43 15°**Ⅱ**44'48 -9723 Sep 01 j 09:22 1°9517'05 2°37'48 direct minimum elong -9729 Aug 05 j 04:09 17°**Ⅲ**39'22 max. Earth dist. -9723 Sep 01 j 09:25 1°517'05 31.29289 AU evening set morning rise -9723 Sep 16 i 08:44 1°950'51 conjunction -9729 Aug 20 j 04:15 18°**Ⅱ**13'07 2°30'35 retrograde -9723 Dec 14 i 04:30 3°9546'16 -9729 Aug 20 j 04:14 minimum elong 18°**Ⅱ**13'07 2°31'08 opposition -9722 Mar 04 i 12:39 2°523'19 2°48'13 -9729 Aug 20 j 00:22 max. Earth dist. 18°**I**12'45 31.31367 AU min. Earth dist. -9722 Mar 04 j 11:31 2°523'23 29.29162 AU -9729 Sep 04 i 03:37 18°**Ⅱ**46'51 direct -9722 May 23 j 18:41 1°900'07 morning rise -9729 Dec 01 i 07:23 20°**Ⅱ**41'23 -9722 Aug 19 j 19:13 2°954'09 retrograde evening set -9728 Feb 19 i 06:35 19°**Ⅱ**18'44 2°41'48 opposition -9728 Feb 19 j 10:30 19°**Д**18'28 29.31520 AU conjunction -9722 Sep 03 j 18:17 min. Earth dist. 3°9527'52 2°37'34 direct -9728 May 10 j 01:45 17°**Ⅱ**55'13 minimum elong -9722 Sep 03 j 18:17 3°527'52 2°38'09 evening set -9728 Aug 06 j 13:16 19°**Ⅲ**49'44 max. Earth dist. -9722 Sep 03 j 20:18 3°528'04 31.28563 AU morning rise -9722 Sep 18 j 17:37 4°901'39 conjunction -9728 Aug 21 j 12:57 20°**Ⅲ**23'29 2°32'15 retrograde -9722 Dec 16 j 16:02 5°957'11 -9728 Aug 21 j 12:57 20°II23'28 2°32'48 -9721 Mar 07 j 01:39 4°534'08 2°48'27 minimum elong opposition -9728 Aug 21 j 09:17 20°**Ⅲ**23'08 31.31257 AU 4°534'17 29.28405 AU max. Earth dist. min. Earth dist. -9721 Mar 06 j 23:26 -9728 Sep 05 j 12:20 20°**Ⅲ**57'13 3°9510'56 morning rise direct -9721 May 26 j 07:54 22°**I**51'54 retrograde -9728 Dec 02 j 18:46 evening set -9721 Aug 22 j 04:11 5°904'53 opposition -9727 Feb 20 j 19:27 21°**I**I29'14 2°43'27 min. Earth dist. -9727 Feb 20 j 21:37 21°**I**29'05 29.31396 AU conjunction -9721 Sep 06 j 03:04 5°938'36 2°37'41 direct -9727 May 12 j 12:57 20°**Ⅲ**05'48 minimum elong -9721 Sep 06 j 03:04 5°**©**38'36 2°38'15 evening set -9727 Aug 08 j 22:11 22°**Ⅱ**00′15 max. Earth dist. -9721 Sep 06 j 05:02 5°938'47 31.27805 AU -9721 Sep 21 j 02:42 6°9512'23 morning rise -9727 Aug 23 j 21:43 22°**Д**33'59 2°33'41 -9721 Dec 19 j 05:07 8°9508'02 conjunction retrograde

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 15									
Attention, astronom	ical year style is used: Th	e year -9720 i	in astronomical cou	unting style is the year	9721 BCE in historical	counting style.	_		
opposition	-9720 Mar 08 j 14:27	6°9544'52	2°48'27	max. Earth dist.	-9714 Sep 21 j 03:21	20°555'42	31.24141 AU		
min. Earth dist.	-9720 Mar 08 j 10:54	6° © 45'06	29.27663 AU	morning rise	-9714 Oct 05 j 19:24	21° © 28'47			
direct	-9720 May 27 j 18:37	5°521'41		retrograde	-9713 Jan 03 j 13:29	23°525'23			
evening set	-9720 Aug 23 j 12:56	7° © 15'32		opposition	-9713 Mar 25 j 09:34	22°©01'52	2°41'40		
evening see	> 720 1148 23 J 12.00	, 01032		min. Earth dist.	-9713 Mar 24 j 23:06		29.24085 AU		
conjunction	-9720 Sep 07 j 11:59	7° © 49'15	2°37'34	direct	-9713 Jun 12 j 22:43	20°939'03	27.24003 110		
minimum elong	-9720 Sep 07 j 11:59	7°949'15	2°38'09		-	20 \$3903 22°\$32'23			
max. Earth dist.	1 3		2 38 09 31.27079 AU	evening set	-9713 Sep 08 j 03:03	22 932 23			
	-9720 Sep 07 j 16:00		31.27079 AU		0712 9 22:02.17	22950(114	2020127		
morning rise	-9720 Sep 22 j 11:37	8°923'04		conjunction	-9713 Sep 23 j 03:17	23°506'14			
retrograde	-9720 Dec 20 j 14:49	10°5518'49	20.4011.2	minimum elong	-9713 Sep 23 j 03:18	23°506'14	2°30'58		
opposition	-9719 Mar 11 j 03:29	8°955'35		max. Earth dist.	-9713 Sep 23 j 14:29		31.23559 AU		
min. Earth dist.	-9719 Mar 10 j 23:15		29.26974 AU	morning rise	-9713 Oct 08 j 05:05	23° © 40'15			
direct	-9719 May 30 j 06:46	7° © 32'25		retrograde	-9712 Jan 06 j 01:41	25° © 36'58			
evening set	-9719 Aug 25 j 21:41	9° 5 26'11		opposition	-9712 Mar 26 j 22:32	24°©13'24			
				min. Earth dist.	-9712 Mar 26 j 11:19	24° © 14'09	29.23428 AU		
conjunction	-9719 Sep 09 j 20:41	9° 9 59'54	2°37'13	direct	-9712 Jun 14 j 10:41	22° © 50'37			
minimum elong	-9719 Sep 09 j 20:41	9° 9 59'54	2°37'47	evening set	-9712 Sep 09 j 12:17	24°543'52			
max. Earth dist.	-9719 Sep 10 j 01:19	10°900'21	31.26445 AU						
morning rise	-9719 Sep 24 j 20:39	10° © 33'44		conjunction	-9712 Sep 24 j 12:41	25° © 17'45	2°28'31		
retrograde	-9719 Dec 23 j 02:38	12° © 29'37		minimum elong	-9712 Sep 24 j 12:41	25°©17'45	2°29'04		
opposition	-9718 Mar 13 j 16:27	11° 5 06'18	2°47'43	max. Earth dist.	-9712 Sep 24 j 23:26	25°©18'46	31.22847 AU		
min. Earth dist.	-9718 Mar 13 j 10:06		29.26390 AU	morning rise	-9712 Oct 09 j 15:04	25°951'48			
direct	-9718 Jun 01 j 18:41	9° 5 43'11		retrograde	-9711 Jan 07 j 15:33	27°548'38			
evening set	-9718 Aug 28 j 06:29	11°936'51		opposition	-9711 Mar 29 j 11:42	26°524'59	2°37'35		
evening see	771011 ug 20 j 00.27	•3031		min. Earth dist.	-9711 Mar 28 j 23:35		29.22645 AU		
conjunction	-9718 Sep 12 j 05:39	12°©10'36	2°36'39	direct	-9711 Jun 16 j 20:52	25°S02'13	2).220 1 3 A0		
•	-9718 Sep 12 j 05:39				•				
minimum elong	1 3	12°S10'36	2°37'14	evening set	-9711 Sep 11 j 21:18	26°\$55'23			
max. Earth dist.	-9718 Sep 12 j 11:51		31.25902 AU		0711 0 26:22 10	270520110	2027/24		
morning rise	-9718 Sep 27 j 05:49	12°544'28		conjunction	-9711 Sep 26 j 22:10	27°529'18	2°26'24		
retrograde	-9718 Dec 25 j 13:46	14°540'29		minimum elong	-9711 Sep 26 j 22:10	27° © 29'18			
opposition	-9717 Mar 16 j 05:23	13° © 17'07		max. Earth dist.	-9711 Sep 27 j 10:22		31.21991 AU		
min. Earth dist.	-9717 Mar 15 j 22:55		29.25895 AU	morning rise	-9711 Oct 12 j 00:55	28°503'23			
direct	-9717 Jun 04 j 05:36	11° 9 54'03			-9710 Jan 05 j 15:43	$0^{\circ}\Omega$			
evening set	-9717 Aug 30 j 15:16	13° 5 47'39		retrograde	-9710 Jan 10 j 02:44	0° Ω 00'19			
					-9710 Jan 14 j 13:32	30° ₹ ∽			
conjunction	-9717 Sep 14 j 14:36	14°521'25	2°35'51	opposition	-9710 Apr 01 j 00:52	28° © 36'35	2°35'13		
minimum elong	-9717 Sep 14 j 14:36	14°521'25	2°36'26	min. Earth dist.	-9710 Mar 31 j 12:40	28° © 37'24	29.21716 AU		
max. Earth dist.	-9717 Sep 14 j 21:56	14°9522'06	31.25453 AU	direct	-9710 Jun 19 j 09:10	27° © 13'49			
morning rise	-9717 Sep 29 j 15:03	14°955'18		evening set	-9710 Sep 14 j 06:30	29° 5 06'53			
retrograde	-9717 Dec 28 j 00:50	16°951'27							
opposition	-9716 Mar 17 j 18:16	15°528'03	2°46'02	conjunction	-9710 Sep 29 j 07:41	29° 5 340'49	2°24'04		
min. Earth dist.	-9716 Mar 17 j 09:37	15° 5 28'38	29.25462 AU	minimum elong	-9710 Sep 29 j 07:42	29°5640'49	2°24'36		
direct	-9716 Jun 05 j 16:47	14°905'04		max. Earth dist.	-9710 Sep 29 j 20:02	29° © 41'59	31.21025 AU		
evening set	-9716 Sep 01 j 00:04	15° 9 58'35			-9710 Oct 07 j 18:39	$0^{\circ}\Omega$			
8	J			morning rise	-9710 Oct 14 j 11:02	0° Ω 14'57			
conjunction	-9716 Sep 15 j 23:28	16°532'22	2°34'50	retrograde	-9709 Jan 12 j 15:53	2° Ω 11'58			
minimum elong	-9716 Sep 15 j 23:29	16°932'22		opposition	-9709 Apr 03 j 13:41	0° Ω 48'07	2°32'37		
max. Earth dist.	-9716 Sep 16 j 07:26		31.25032 AU	min. Earth dist.	-9709 Apr 03 j 00:04		29.20700 AU		
morning rise	-9716 Oct 01 j 00:17	10 93307 17°906'17	51.23032 AU	mm. Latin dist.	-9709 Apr 03 j 00:04 -9709 May 05 j 03:18	0 8€4902 30°R≌	27.20700 AU		
•	-9716 Oct 01 j 00.17 -9716 Dec 29 j 12:22	17 900 17 19°902'36		direct	-9709 May 03 J 03.18 -9709 Jun 21 j 21:14	30 kജ 29°ള25'21			
retrograde	·		2044140	direct	-				
opposition	-9715 Mar 20 j 07:24	17°939'10		ovening set	-9709 Aug 06 j 12:51	0°Ω 1°Ω10'10			
min. Earth dist.	-9715 Mar 19 j 22:42		29.25050 AU	evening set	-9709 Sep 16 j 15:37	1° Ω 18'18			
direct	-9715 Jun 08 j 02:10	16°916'15			05000 0 0 01 1 1 5 1 4	1005015	0001100		
evening set	-9715 Sep 03 j 08:56	18° © 09'42		conjunction	-9709 Oct 01 j 17:14	1° £ 52′17			
				minimum elong	-9709 Oct 01 j 17:14	1° £ 52′17			
conjunction	-9715 Sep 18 j 08:40	18°543'30	2°33'35	max. Earth dist.	-9709 Oct 02 j 06:34		31.19977 AU		
minimum elong	-9715 Sep 18 j 08:40	18° 5 43'30		morning rise	-9709 Oct 16 j 21:06	2° Ω 26′28			
max. Earth dist.	-9715 Sep 18 j 18:19	18° © 44'25	31.24618 AU	retrograde	-9708 Jan 15 j 03:24	4° Ω 23'33			
morning rise	-9715 Oct 03 j 09:42	19° © 17'27		opposition	-9708 Apr 05 j 02:43	2° Ω 59'36			
retrograde	-9714 Jan 01 j 00:05	21° © 13'55		min. Earth dist.	-9708 Apr 04 j 13:18		29.19639 AU		
opposition	-9714 Mar 22 j 20:25	19° © 50'26	2°43'22	direct	-9708 Jun 23 j 08:37	1° Ω 36'49			
min. Earth dist.	-9714 Mar 22 j 10:06	19° © 51'08	29.24605 AU	evening set	-9708 Sep 18 j 00:34	3° Ω 29'40			
direct	-9714 Jun 10 j 12:49	18° © 27'35							
evening set	-9714 Sep 05 j 17:59	20°520'58		conjunction	-9708 Oct 03 j 02:38	4° Ω 03'40	2°18'47		
	-			minimum elong	-9708 Oct 03 j 02:39	4° Ω 03'40	2°19'18		
conjunction	-9714 Sep 20 j 17:49	20°954'48	2°32'07	max. Earth dist.	-9708 Oct 03 j 17:08		31.18933 AU		
minimum elong	-9714 Sep 20 j 17:49	20°954'48	2°32'41	morning rise	-9708 Oct 18 j 07:00	4° Ω 37'54			
Č	1 3			Ü	,				

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9707 in astronomical counting style is the year 9708 BCE in historical counting style. -9707 Jan 16 j 14:33 6°**Ω**35'05 min. Earth dist. -9701 Apr 21 j 01:02 18°Ω23'18 29.13846 AU retrograde -9707 Apr 07 j 15:34 5°Ω11'02 2°26'45 -9701 Jul 09 j 09:40 16°**Ω**59'26 opposition direct -9707 Apr 07 j 00:05 5°**Ω**12'05 29.18607 AU -9701 Oct 03 j 17:49 18°**Ω**51'55 min. Earth dist. evening set -9707 Jun 25 j 20:21 3°**Ω**48'15 direct -9707 Sep 20 j 09:45 5°**Ω**41'01 -9701 Oct 18 j 23:33 19°**Ω**26'14 1°54'07 evening set conjunction 19°**Ω**26'14 1°54'32 -9701 Oct 18 j 23:34 minimum elong -9707 Oct 05 j 12:10 6°**Ω**15'03 2°15'51 -9701 Oct 19 j 19:30 conjunction max. Earth dist. 19°**Ω**28'07 31.13309 AU -9707 Oct 05 j 12:11 -9701 Nov 03 j 08:28 minimum elong 6°**Ω**15'03 2°16'20 morning rise 20°**Ω**00'51 -9707 Oct 06 j 03:06 -9700 Feb 02 j 09:00 max. Earth dist. 6°**Ω**16'28 31.17937 AU retrograde 21°**Ω**58'49 morning rise -9707 Oct 20 j 17:13 6°**Ω**49'20 opposition -9700 Apr 23 j 09:16 20°**Ω**34'28 1°59'41 20°**Ω**35'52 29.13015 AU retrograde -9706 Jan 19 j 02:02 8°**Ω**46'37 min. Earth dist. -9700 Apr 22 j 12:40 -9706 Apr 10 j 04:30 -9700 Jul 10 j 21:40 opposition 7°**Ω**22'29 2°23'30 direct 19°**Ω**11'56 -9700 Oct 05 j 03:29 min. Earth dist. -9706 Apr 09 j 12:58 7°**Ω**23'33 29.17658 AU evening set 21°**Ω**04'23 direct -9706 Jun 28 j 05:56 5°**Ω**59'43 evening set -9706 Sep 22 j 18:48 7°**Ω**52'25 conjunction -9700 Oct 20 j 09:47 21°**Ω**38'45 1°49'52 minimum elong -9700 Oct 20 j 09:49 21°**Ω**38'45 1°50'17 conjunction -9706 Oct 07 j 21:53 8°Ω26'29 2°12'42 max. Earth dist. -9700 Oct 21 j 06:17 21°**Ω**40'41 31.12416 AU minimum elong -9706 Oct 07 j 21:54 8°**Ω**26'29 2°13'12 morning rise -9700 Nov 04 j 19:25 22°**Ω**13'26 max. Earth dist. -9706 Oct 08 j 14:39 8°**Ω**28'05 31.17041 AU retrograde -9699 Feb 03 j 21:34 24°Ω11'29 morning rise -9706 Oct 23 j 03:24 9°Ω00'49 opposition -9699 Apr 25 j 22:15 22°Ω47'05 1°55'03 retrograde -9705 Jan 21 j 13:38 10°**Ω**58'12 min. Earth dist. -9699 Apr 25 j 02:20 22°**Ω**48'26 29.12056 AU opposition -9705 Apr 12 i 17:15 9°**Ω**34'01 2°20'02 direct -9699 Jul 13 i 08:53 21°Ω24'33 min. Earth dist. -9705 Apr 11 i 23:55 9°**Ω**35'12 29.16795 AU evening set -9699 Oct 07 j 13:19 23°Ω16'56 direct -9705 Jun 30 i 16:37 8°Ω11'17 evening set -9705 Sep 25 j 04:05 10°Ω03'55 conjunction -9699 Oct 22 j 20:21 23°**Ω**51′21 1°45'27 -9699 Oct 22 j 20:22 23°Ω51'22 1°45'51 minimum elong -9705 Oct 10 j 07:29 10°Ω38'02 2°09'22 -9699 Oct 23 j 17:24 23°**Ω**53'21 31.11407 AU conjunction max. Earth dist. -9705 Oct 10 j 07:30 10°**Q**38′02 2°09′50 -9699 Nov 07 j 06:39 minimum elong morning rise 24°**Ω**26'06 -9705 Oct 11 j 00:15 10°**Ω**39'37 31.16230 AU -9698 Feb 06 j 09:46 26° **Ω**24'13 max. Earth dist. retrograde 24°**Ω**59'44 1°50'15 -9705 Oct 25 j 13:47 11°**Ω**12′26 -9698 Apr 28 j 10:56 morning rise opposition -9704 Jan 24 j 02:52 13°**Ω**09'56 -9698 Apr 27 j 13:41 25°**Ω**01'11 29.10969 AU min. Earth dist. retrograde -9704 Apr 14 j 06:03 11°**Ω**45'42 2°16'22 -9698 Jul 15 j 20:59 23°**Ω**37'11 opposition direct -9704 Apr 13 j 12:22 -9698 Oct 09 j 23:17 min. Earth dist. 11°**Ω**46′54 29.16023 AU 25°**Ω**29'30 evening set -9704 Jul 02 j 01:59 10°**Ω**23′01 direct -9704 Sep 26 j 13:16 -9698 Oct 25 j 06:51 26°Ω03'58 1°40'53 evening set 12°**Ω**15'36 conjunction -9698 Oct 25 j 06:52 26°**Ω**03'58 1°41'17 minimum elong -9704 Oct 11 j 17:22 12°**Ω**49'46 2°05'50 -9698 Oct 26 j 03:32 26°**Ω**05'55 31.10263 AU conjunction max. Earth dist. minimum elong -9704 Oct 11 j 17:23 12°**Q**49'46 2°06'19 morning rise -9698 Nov 09 j 18:02 26°**Ω**38'47 max. Earth dist. -9704 Oct 12 j 12:07 12°**Ω**51'33 31.15495 AU retrograde -9697 Feb 08 j 21:59 28°**Ω**36'56 morning rise -9704 Oct 27 j 00:08 13°**Ω**24'13 opposition -9697 Apr 30 j 23:44 27°Ω12'21 1°45'17 -9704 Dec 19 j 18:19 15°**Ω** min. Earth dist. -9697 Apr 30 j 03:10 27°**Ω**13'45 29.09768 AU -9703 Jan 25 j 15:23 15°**Ω**21'50 -9697 Jul 18 j 07:36 25°**Ω**49'46 retrograde direct -9703 Mar 04 j 15:26 15°RΩ -9697 Oct 12 j 09:05 27°**Ω**42'00 evening set -9703 Apr 16 j 18:53 13°**Ω**57'35 2°12'29 opposition -9703 Apr 16 j 00:13 13°**Ω**58'51 29.15299 AU -9697 Oct 27 j 17:27 28°Ω16'31 1°36'10 min. Earth dist. conjunction -9703 Jul 04 i 12:57 -9697 Oct 27 j 17:28 direct 12°**Ω**34'56 minimum elong 28°Ω16'31 1°36'32 -9703 Sep 28 i 22:36 evening set 14°**Ω**27'30 max. Earth dist. -9697 Oct 28 i 15:28 28°Ω18'36 31.09033 AU -9703 Oct 13 i 09:05 15°Ω morning rise -9697 Nov 12 i 05:12 28°**Ω**51'22 -9697 Dec 16 j 21:12 0° m -9703 Oct 14 i 03:08 15°Ω01'42 2°02'07 -9696 Feb 11 i 09:32 0° m 49'34 conjunction retrograde -9703 Oct 14 i 03:09 15°Ω01'43 2°02'34 -9696 Apr 10 j 10:52 30°RΩ minimum elong -9703 Oct 14 j 21:42 15°**Ω**03'28 31.14800 AU -9696 May 02 j 12:14 29°Ω24'53 1°40'10 max. Earth dist. opposition -9703 Oct 29 j 10:45 15°**Ω**36′12 min. Earth dist. -9696 May 01 j 14:25 29°Ω26'23 29.08500 AU morning rise 17°**Ω**33'57 -9696 Jul 19 j 19:26 retrograde -9702 Jan 28 j 05:39 direct 28°Ω02'15 -9702 Apr 19 j 07:46 16°**Ω**09'41 2°08'25 evening set -9696 Oct 13 j 19:04 29°**Ω**54'24 opposition min. Earth dist. -9702 Apr 18 j 12:14 16°**Ω**11'00 29.14598 AU -9696 Oct 16 j 07:38 0° m -9702 Jun 08 j 20:49 15°RΩ -9702 Jul 06 j 22:07 14°**Ω**47'05 -9696 Oct 29 j 03:56 0° m/28'58 1°31'19 direct conjunction 15°€ -9696 Oct 29 j 03:57 0° To 28'58 $1^{\circ}31'40$ -9702 Aug 03 j 11:49 minimum elong -9702 Oct 01 j 08:08 16°**Ω**39'36 -9696 Oct 30 j 01:32 0° Mp 31'00 31.07774 AU evening set max. Earth dist. -9696 Nov 13 j 16:35 morning rise 1° m 03'53 conjunction -9702 Oct 16 j 13:19 17°**Ω**13'52 1°58'12 retrograde -9695 Feb 12 j 21:43 3° Mp 02'07 minimum elong -9702 Oct 16 j 13:20 17°**Ω**13'52 1°58'39 min. Earth dist. -9695 May 04 j 03:04 1° m/38'48 29.07256 AU max. Earth dist. -9702 Oct 17 j 09:15 17°**Ω**15'45 31.14083 AU opposition -9695 May 05 j 00:51 1° m 37'19 1°34'55 morning rise -9702 Oct 31 j 21:31 17°**Ω**48'26 direct -9695 Jul 22 j 05:08 0° m 14'38 -9701 Jan 30 j 18:01 19°**Ω**46'17 -9695 Oct 16 j 04:54 2° m 06'43 retrograde evening set -9701 Apr 21 j 20:28 18°**Ω**21'59 2°04'08 opposition

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9695 in astronomical counting style is the year 9696 BCE in historical counting style. -9695 Oct 31 i 14:36 2° m 41'19 1°26'20 direct -9688 Aug 06 i 08:14 15° m 42'56 conjunction 2° m/41'19 1°26'39 -9695 Oct 31 j 14:37 evening set -9688 Oct 31 j 05:37 minimum elong 17° m 34'56 max. Earth dist. -9695 Nov 01 j 13:59 2° m 43'32 31.06559 AU 18° Mp 09'56 0°48'11 -9688 Nov 15 j 20:04 -9695 Nov 16 j 03:52 3° Tp 16'17 morning rise conjunction 18°**™**09'56 -9694 Feb 15 j 08:50 -9688 Nov 15 j 20:04 0°48'22 retrograde 5° m 14'34 minimum elong 3° m 49'40 1°29'31 -9688 Nov 16 j 22:40 18° Mp 12'26 31.00568 AU opposition -9694 May 07 j 13:17 max. Earth dist. min. Earth dist. -9694 May 06 j 14:42 3° Mp 51'13 29.06072 AU morning rise -9688 Dec 01 j 14:27 18° m 45'19 -9694 Jul 24 j 16:09 direct 2° m 26'57 retrograde -9687 Mar 03 j 06:26 20° m 44'01 evening set -9694 Oct 18 j 15:04 4° My 18'58min. Earth dist. -9687 May 22 j 01:53 19° m 20'40 29.00208 AU opposition -9687 May 23 j 03:12 19° **m** 18'55 0°48'19 conjunction -9694 Nov 03 j 01:19 4° m 53'38 1°21'13 direct -9687 Aug 08 j 19:57 17° Mp 56'16 -9694 Nov 03 j 01:19 minimum elong 4° **m** 53'38 1°21'31 evening set -9687 Nov 02 j 16:42 19° m/48'17 max. Earth dist. -9694 Nov 04 j 00:21 4° m 55'48 31.05438 AU morning rise -9694 Nov 18 j 15:27 5° m 28'39 conjunction -9687 Nov 18 j 07:42 20° m 23'20 0°42'21 retrograde -9693 Feb 17 j 22:39 7° m 26'58 minimum elong -9687 Nov 18 j 07:42 20° Mp 23'200°42'30 min. Earth dist. -9693 May 09 j 02:09 6° Mp 03'36 29.05008 AU max. Earth dist. -9687 Nov 19 j 09:13 20° m 25'44 30.99721 AU opposition -9693 May 10 j 01:31 6° M 02'001°23'59 morning rise -9687 Dec 04 j 02:59 20° m 58'47 direct -9693 Jul 27 j 01:13 4° m 39'15 retrograde -9686 Mar 05 j 19:08 22° m 57'32 evening set -9693 Oct 21 j 01:09 6° m 31'15 opposition -9686 May 25 j 15:32 21° m 32'24 0°42'03 min. Earth dist. -9686 May 24 j 14:57 21° m/34'06 28.99308 AU conjunction -9693 Nov 05 j 12:08 7° m 05'57 1°15'59 direct -9686 Aug 11 j 05:40 20° m 09'44 minimum elong -9693 Nov 05 j 12:09 7° m 05'58 1°16'16 evening set -9686 Nov 05 i 03:51 22° m 01'45 max. Earth dist. -9693 Nov 06 j 12:34 7° Mp 08'16 31.04431 AU morning rise -9693 Nov 21 i 02:55 7° **m** 41'02conjunction -9686 Nov 20 i 19:39 22° m 36'51 0°36'28 retrograde -9692 Feb 20 i 10:46 9° m 39'24 -9686 Nov 20 i 19:40 22° m 36'51 0°36'36 minimum elong -9692 May 11 j 13:52 8° mb 14'23 1°18'19 max. Earth dist. -9686 Nov 21 j 22:06 22° m/39'20 30.98765 AU opposition -9692 May 10 j 14:21 8° 16'00 29.04056 AU -9686 Dec 06 j 15:28 23° m 12'21 min. Earth dist. morning rise -9692 Jul 28 j 12:27 -9685 Mar 08 j 06:25 25° m 11'08 6° m 51'38 retrograde direct -9685 May 27 j 02:58 -9692 Oct 22 j 11:14 8° Tp 43'36 min. Earth dist. 23° mp 47'40 28.98291 AU evening set -9685 May 28 j 03:35 23° Mp 45'57 0°35'43 opposition -9692 Nov 06 j 22:54 9° m 18'22 1°10'38 -9685 Aug 13 j 16:36 22° m 23'15 conjunction direct -9692 Nov 06 j 22:54 -9685 Nov 07 j 15:06 9° m 18'22 1°10'54 24° m 15'16 minimum elong evening set -9692 Nov 07 j 23:38 9° m 20'42 31.03557 AU max. Earth dist. -9692 Nov 22 j 14:28 9° m 53'31 -9685 Nov 23 j 07:28 24° m 50'24 0°30'31 morning rise conjunction -9691 Feb 22 j 01:45 11° Mp 51'56 -9685 Nov 23 j 07:28 24° m 50'24 0°30'38 retrograde minimum elong -9691 May 13 j 01:21 10° Mp 28'35 29.03227 AU -9685 Nov 24 j 08:51 24° m 52'48 30.97723 AU min. Earth dist. max. Earth dist. 25° m 25'57 opposition -9691 May 14 j 02:12 10° m 26'53 1°12'32 morning rise -9685 Dec 09 j 04:06 direct -9691 Jul 30 j 23:41 9° m 04'09 retrograde -9684 Mar 09 j 20:27 27° Mp 24'45 -9691 Oct 24 j 21:37 10° m 56'07 -9684 May 29 j 15:42 25° m 59'31 0°29'21 evening set opposition min. Earth dist. -9684 May 28 j 15:00 26° m 01'14 28.97220 AU conjunction -9691 Nov 09 j 09:56 11° Mp 30'56 1°05'10 -9684 Aug 15 j 01:54 24° m/36'45 direct -9691 Nov 09 j 09:57 11° Mp 30'56 1°05'25 -9684 Nov 09 j 02:12 26° M 28'45 minimum elong evening set -9691 Nov 10 j 11:18 11° Mp 33'20 31.02770 AU max. Earth dist. -9691 Nov 25 j 02:17 12° Mp 06'09 -9684 Nov 24 j 19:18 27° m 03'57 0°24'32 morning rise conjunction -9690 Feb 24 j 14:24 14° Mp 04'39 -9684 Nov 24 j 19:18 27° m 03'57 0°24'38 retrograde minimum elong -9684 Nov 25 j 21:31 opposition -9690 May 16 j 14:29 12° m 39'34 1°06'37 max. Earth dist. 27° m 06'24 30.96634 AU min. Earth dist. -9690 May 15 j 14:18 12° m 41'14 29.02473 AU morning rise -9684 Dec 10 j 16:32 27° m 39'32 direct -9690 Aug 02 j 10:05 11° m 16'51 retrograde -9683 Mar 12 j 08:01 29° m 38'21 evening set -9690 Oct 27 j 08:06 13° m 08'50 min. Earth dist. -9683 May 31 i 03:29 28° m 14'43 28.96128 AU -9683 Jun 01 i 03:46 28° m 13'02 0°22'55 opposition -9690 Nov 11 j 21:13 13° m 43'43 0°59'36 -9683 Aug 17 j 13:30 26° m 50'13 conjunction direct -9690 Nov 11 i 21:14 13° m 43'43 0°59'50 -9683 Nov 11 j 13:35 28° m 42'13 minimum elong evening set -9690 Nov 12 j 23:16 13° Mp 46'10 31.02052 AU max. Earth dist. morning rise -9690 Nov 27 j 14:14 14° m 18'59 conjunction -9683 Nov 27 j 07:19 29° m 17'27 0°18'31 16° m 17'33 retrograde -9689 Feb 27 j 04:11 minimum elong -9683 Nov 27 j 07:19 29° m 17'27 0°18'36 min. Earth dist. -9689 May 18 j 01:16 14° m 54'13 29.01753 AU max. Earth dist. -9683 Nov 28 j 09:18 29° m 19'53 30.95573 AU -9689 May 19 j 02:40 14° Mp 52'28 1°00'37 morning rise -9683 Dec 13 j 05:15 29° m 53'05 opposition -9689 Aug 04 j 21:57 13° m 29'47 -9683 Dec 16 j 09:11 0∘ଫ direct -9689 Oct 29 j 18:49 -9682 Mar 14 j 22:27 evening set 15° m 21'46 retrograde 1°**£**51'54 -9682 Jun 03 j 15:31 0°**2**6'31 0°16'28 opposition -9689 Nov 14 j 08:26 conjunction 15° m 56'42 0°53'56 min. Earth dist. -9682 Jun 02 j 14:27 0°**2**28'15 28.95098 AU minimum elong -9689 Nov 14 j 08:26 15° Mp 56'42 0°54'07 -9682 Jun 19 j 19:05 30°R, Mg max. Earth dist. -9689 Nov 15 j 10:02 15° Mp 59'07 31.01326 AU direct -9682 Aug 20 j 00:52 29° m 03'37 morning rise -9689 Nov 30 j 02:16 16° Mp 32'02 -9682 Oct 17 j 13:12 0∘**⊽** retrograde -9688 Feb 29 j 17:45 18° m 30'41 evening set -9682 Nov 14 j 01:06 0°**£**55'38 -9688 May 20 j 15:00 17° m 05'35 0°54'31 opposition -9688 May 19 j 14:28 -9682 Nov 29 j 19:24 1°**2**30'55 0°12'29 min. Earth dist. 17° Mp 07'17 29.01014 AU conjunction

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9682 in astronomical counting style is the year 9683 BCE in historical counting style. -9682 Nov 29 i 19:25 1°**2**30'55 0°12'32 direct -9676 Sep 01 i 19:39 12°**£**25'44 minimum elong -9682 Nov 29 i 15:14 1°**£**30'33 evening set -9676 Nov 27 j 00:18 14°**£**18'02 behind sun begin -9682 Nov 29 j 23:35 1°**£**31'18 behind sun end -9676 Dec 12 j 22:01 max. Earth dist. -9682 Nov 30 j 21:39 1°**೨**33'23 30.94577 AU conjunction 14° 253'34 -0°24'04 -9682 Dec 15 j 17:59 -9676 Dec 12 j 22:01 14°**2**53'34 0°24'09 morning rise 2°**2**06'36 minimum elong -9676 Dec 14 j 00:03 retrograde -9681 Mar 17 j 10:37 4°**£**05'25 max. Earth dist. 14°**≙**56′01 30.90954 AU min. Earth dist. -9681 Jun 05 j 03:11 2°**♀**41'40 28.94162 AU morning rise -9676 Dec 28 j 23:56 15°**£**29'30 opposition -9681 Jun 06 j 03:26 2°**₽**39'59 0°09'59 retrograde -9675 Mar 30 j 19:23 17°**£**28'25 direct -9681 Aug 22 j 11:09 1°**2**17′03 min. Earth dist. -9675 Jun 18 j 01:16 16° **2**04'41 28.90750 AU evening set -9681 Nov 16 j 12:28 3°**£**09'05 opposition -9675 Jun 19 j 01:34 16° 202'59 -0°29'01 direct -9675 Sep 04 j 05:22 14°**£**39'58 -9681 Dec 02 j 07:29 -9675 Nov 29 j 12:56 conjunction 3°**₽**44'24 0°06'26 evening set 16°**♀**32'21 -9681 Dec 02 j 07:28 minimum elong 3°**-**44′24 0°06'28 behind sun begin -9681 Dec 02 j 01:21 3°**£**43'51 conjunction -9675 Dec 15 j 11:14 17°**2**07'55 -0°30'05 behind sun end -9681 Dec 02 j 13:36 3°**£**44'57 minimum elong -9675 Dec 15 j 11:14 17°**♀**07'55 0°30'11 max. Earth dist. -9681 Dec 03 j 10:18 3°**2**46'55 30.93709 AU max. Earth dist. -9675 Dec 16 j 13:27 17°**♀**10'23 30.90442 AU morning rise morning rise -9681 Dec 18 j 06:33 4°**£**20'08 -9675 Dec 31 j 13:30 17°**£**43'53 retrograde -9680 Mar 19 j 00:58 6°**£**18'57 retrograde -9674 Apr 02 j 06:35 19°**-**42'48 opposition -9680 Jun 07 j 15:08 4°**£**53′29 0°03'29 opposition -9674 Jun 21 j 13:10 18° **△** 17'23 -0°35'26 min. Earth dist. -9680 Jun 06 j 13:39 4°**♀**55'15 28.93356 AU min. Earth dist. -9674 Jun 20 j 13:55 18°**2**19'01 28.90196 AU direct -9680 Aug 23 j 23:42 3°**£**30'31 direct -9674 Sep 06 j 16:31 16°**£**54'20 evening set -9680 Nov 18 j 00:10 5°**£**22'34 evening set -9674 Dec 02 i 01:42 18°**£**46'47 conjunction -9680 Dec 03 i 19:37 5°**£**57'57 0°00'18 conjunction -9674 Dec 18 i 00:30 -9680 Dec 03 i 19:38 5°**♀**57'57 0°00'19 -9674 Dec 18 i 00:29 19°**♀**22'23 0°36'11 minimum elong minimum elong -9680 Dec 03 i 13:09 5°**♀**57'22 max. Earth dist. -9674 Dec 19 j 01:34 19°**2**24'44 30.89845 AU behind sun begin -9680 Dec 04 j 02:07 5°**♀**58'32 -9673 Jan 03 j 03:15 19°**£**58'22 behind sun end morning rise -9680 Dec 04 j 21:59 6°**2**00'25 30.92969 AU -9673 Apr 04 j 20:49 max. Earth dist. retrograde 21° 257'16 -9680 Dec 19 j 19:26 -9673 Jun 23 j 01:24 6°£33'43 min. Earth dist. 20°**೨**33'29 28.89548 AU morning rise desc. node -9680 Dec 21 j 08:58 -9673 Jun 24 j 00:47 20°**△**31'51 -0°41'49 6°**₽**37'08 opposition -9679 Mar 21 j 15:12 -9673 Sep 09 j 03:39 8°**₽**32'33 direct 19°**Ω**08'44 retrograde -9673 Dec 04 j 14:26 -9679 Jun 09 j 02:17 7°**♀**08'47 28.92691 AU 21°**₽**01'15 min. Earth dist. evening set 7°**2**07'04 -0°03'02 -9679 Jun 10 j 02:57 opposition -9679 Aug 26 j 10:35 5°**£**44'04 -9673 Dec 20 j 13:39 21°**△**36'53 -0°42'00 direct conjunction -9679 Nov 20 j 11:51 -9673 Dec 20 j 13:38 evening set 7°**£**36'11 minimum elong 21°**△**36'53 0°42'09 -9673 Dec 21 j 14:17 max. Earth dist. 21°**♀**39'11 30.89134 AU -9679 Dec 06 j 08:06 8° 211'36 -0°05'52 -9672 Jan 05 j 16:49 conjunction morning rise 22°**£**12'54 minimum elong -9679 Dec 06 j 08:05 8°**2**11'36 0°05'53 retrograde -9672 Apr 06 j 08:52 24°**£**11'47 behind sun begin -9679 Dec 06 j 01:52 8°**£**11'02 opposition -9672 Jun 25 j 12:28 22°**2**46'19 -0°48'07 behind sun end -9679 Dec 06 j 14:19 8°**£**12'10 min. Earth dist. -9672 Jun 24 j 14:37 22°**£**47'52 28.88800 AU max. Earth dist. -9679 Dec 07 j 11:29 8°**£**14'10 30.92367 AU direct -9672 Sep 10 j 14:09 21°**≏**23'09 -9679 Dec 22 j 08:19 8°**-**47'25 -9672 Dec 06 j 03:16 23°**♀**15'43 morning rise evening set -9678 Mar 24 j 03:55 10°**£**46'15 retrograde -9678 Jun 12 j 14:35 9°**2**20'47 -0°09'33 -9672 Dec 22 j 03:03 23°**♀**51'23 -0°47'52 opposition conjunction -9678 Jun 11 j 13:06 9°**£**22'33 28.92134 AU -9672 Dec 22 j 03:02 23°**♀**51'22 0°48'02 min. Earth dist. minimum elong -9672 Dec 23 i 03:24 direct -9678 Aug 28 i 22:49 7°**£**57'47 max. Earth dist. 23°**2**53'39 30.88364 AU evening set -9678 Nov 22 i 23:55 9°**£**49'57 morning rise -9671 Jan 07 i 06:34 24°**£**27'25 retrograde -9671 Apr 08 j 23:11 26°**£**26'15 -9678 Dec 08 j 20:32 conjunction 10° **2**5'24 -0°11'56 opposition -9671 Jun 27 j 23:49 25°**♀**00'45 -0°54'21 -9678 Dec 08 i 20:32 10°**2**25'24 0°11'58 min. Earth dist. -9671 Jun 27 i 01:32 25°**2**02'19 28.88009 AU minimum elong -9678 Dec 08 i 16:05 10°**£**25′00 direct -9671 Sep 13 j 03:15 23°**₽**37'29 behind sun begin evening set -9678 Dec 09 j 01:00 10°**£**25'48 -9671 Dec 08 j 16:19 25°**£**30'07 behind sun end -9678 Dec 09 j 22:53 10°**2**27'52 30.91855 AU max. Earth dist. morning rise -9678 Dec 24 j 21:28 11°**₽**01'16 conjunction -9671 Dec 24 j 16:26 26°**£**05'49 -0°53'39 retrograde -9677 Mar 26 j 17:04 13°**♀**00'08 minimum elong -9671 Dec 24 j 16:25 26°**Ω**05'49 0°53'51 26°**2**07'59 30.87560 AU min. Earth dist. -9677 Jun 14 j 01:30 11°**2**36'23 28.91662 AU max. Earth dist. -9671 Dec 25 j 15:39 -9677 Jun 15 j 02:14 11° **△**34'40 -0°16'03 -9670 Jan 09 j 20:26 26°**£**41'53 opposition morning rise -9677 Aug 31 j 08:29 10°**£**11'40 -9670 Apr 11 j 12:47 28°**♀**40'40 direct retrograde -9677 Nov 25 j 12:00 12°**2**03′54 -9670 Jun 30 j 11:17 27° 215'08 -1°00'31 evening set opposition -9670 Jun 29 j 14:24 27°**£**16'36 28.87226 AU min. Earth dist. -9677 Dec 11 j 09:19 -9670 Sep 15 j 14:44 25° 251'47 conjunction 12°**£**39'24 -0°18'00 direct minimum elong -9677 Dec 11 j 09:18 12°**2**39'24 0°18'04 evening set -9670 Dec 11 j 05:17 27°**₽**44'29 max. Earth dist. -9677 Dec 12 j 12:39 12°**2**41'58 30.91401 AU morning rise -9677 Dec 27 j 10:34 13°**£**15′17 conjunction -9670 Dec 27 j 05:56 28°**2**20'13 -0°59'22 retrograde -9676 Mar 28 j 05:18 15°**£**14'10 minimum elong -9670 Dec 27 j 05:56 28°**2**20'13 0°59'35 -9676 Jun 16 j 13:52 13°**-**48'44 -0°22'33 -9670 Dec 28 j 05:40 28° **2**2'26 30.86795 AU opposition max. Earth dist.

min. Earth dist.

-9676 Jun 15 j 13:13

13°**♀**50'28 28.91214 AU

morning rise

-9669 Jan 12 j 10:06

28°**♀**56'17

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 19 Attention, astronomical year style is used: The year -9669 in astronomical counting style is the year 9670 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ne year -9669 in	astronomical cou	inting style is the year	9670 BCE in historical c	ounting style.	r6>
	-9669 Feb 13 j 09:40	0° M .		evening set	-9663 Dec 27 j 03:29	13°M27'08	
retrograde	-9669 Apr 14 j 01:36	0°M55'01					
	-9669 Jun 14 j 11:38	30° ŖΩ		conjunction	-9662 Jan 12 j 06:25	14°M03'01	-1°36'24
opposition	-9669 Jul 02 j 22:26	29° ₽ 29'29 -	-1°06'34	minimum elong	-9662 Jan 12 j 06:24	14°M03'00	1°36'45
min. Earth dist.	-9669 Jul 02 j 01:05	29° ≙ 30'59	28.86498 AU	max. Earth dist.	-9662 Jan 13 j 02:26	14°M04'53	30.84281 AU
direct	-9669 Sep 18 j 03:37	28° ≏ 06'04		morning rise	-9662 Jan 28 j 12:15	14°M39'11	
evening set	-9669 Dec 13 j 18:28	29° ≏ 58'50			-9662 Feb 07 j 05:27	15°M	
	-9669 Dec 14 j 07:11	0° M		retrograde	-9662 Apr 29 j 19:58	16° ™ 37'44	
				min. Earth dist.	-9662 Jul 17 j 10:43		28.84274 AU
conjunction	-9669 Dec 29 j 19:19	0° M 34'35 -		opposition	-9662 Jul 18 j 04:29	15° M 12′27	-1°45'44
minimum elong	-9669 Dec 29 j 19:19	0° M 34'35			-9662 Jul 25 j 12:44	15°RM	
max. Earth dist.	-9669 Dec 30 j 17:43		30.86114 AU	direct	-9662 Oct 03 j 08:28	13°M48'46	
morning rise	-9668 Jan 14 j 23:57	1° ™ 10'41			-9662 Dec 09 j 06:17	15° ™	
retrograde	-9668 Apr 15 j 15:16	3° ™ 09'23		evening set	-9662 Dec 29 j 17:37	15°M42'24	
opposition	-9668 Jul 04 j 09:44	1°M43′50 ⋅					
min. Earth dist.	-9668 Jul 03 j 13:14		28.85891 AU	conjunction	-9661 Jan 14 j 20:39	16° ™ 18'17	
direct	-9668 Sep 19 j 14:00	0°M20′21		minimum elong	-9661 Jan 14 j 20:38	16° M 18′17	
evening set	-9668 Dec 15 j 07:29	2°M₁3′13		max. Earth dist.	-9661 Jan 15 j 15:04		30.84031 AU
				morning rise	-9661 Jan 31 j 02:39	16°M54'27	
conjunction	-9668 Dec 31 j 08:54	2°M48'59		retrograde	-9661 May 02 j 08:50	18°M52'58	
minimum elong	-9668 Dec 31 j 08:53	2° ™ 48'59		opposition	-9661 Jul 20 j 15:39	17° ™ 27'42	
max. Earth dist.	-9667 Jan 01 j 08:10		30.85558 AU	min. Earth dist.	-9661 Jul 19 j 23:44		28.83997 AU
morning rise	-9667 Jan 16 j 13:40	3°M25'06		direct	-9661 Oct 05 j 19:53	16°M03′58	
retrograde	-9667 Apr 18 j 04:00	5°M₂23'46		evening set	-9660 Jan 01 j 07:40	17° ™ 57'42	
opposition	-9667 Jul 06 j 20:56	3°M.58'14 -				100 W 2012	
min. Earth dist.	-9667 Jul 06 j 00:32		28.85400 AU	conjunction	-9660 Jan 17 j 11:05	18°M33'36	
direct	-9667 Sep 22 j 01:55	2°M34'43		minimum elong	-9660 Jan 17 j 11:05	18°M33'36	
evening set	-9667 Dec 17 j 20:54	4° ™ 27'40		max. Earth dist.	-9660 Jan 18 j 05:13		30.83706 AU
	0.000 x 00:00 00	50M 03130	1015156	morning rise	-9660 Feb 02 j 17:04	19°M09'47	
conjunction	-9666 Jan 02 j 22:33	5°M03'28		retrograde	-9660 May 03 j 22:14	21°M08'13	20.02/20.411
minimum elong	-9666 Jan 02 j 22:32	5°M03'28		min. Earth dist.	-9660 Jul 21 j 10:50		28.83629 AU
max. Earth dist.	-9666 Jan 03 j 20:22		30.85134 AU	opposition	-9660 Jul 22 j 02:37	19°M42'58	-1°55'36
morning rise	-9666 Jan 19 j 03:44	5°M39'36		direct	-9660 Oct 07 j 09:03	18°M19'08	
retrograde	-9666 Apr 20 j 17:22	7°M38'15	20.05040.411	evening set	-9659 Jan 02 j 21:55	20°M12′58	
min. Earth dist.	-9666 Jul 08 j 11:53	6°M12'44	28.85049 AU		0(50 I 10:01-25	20°M₄48'53	1950116
opposition	-9666 Jul 09 j 08:01		-1-2407	conjunction	-9659 Jan 19 j 01:25 -9659 Jan 19 j 01:24		
direct	-9666 Sep 24 j 12:01	4°M49'11		minimum elong			30.83298 AU
evening set	-9666 Dec 20 j 10:19	6°M42'16		max. Earth dist. morning rise	-9659 Jan 19 j 17:29 -9659 Feb 04 j 07:41		30.83298 AU
conjunction	-9665 Jan 05 j 12:23	7°M18'05 -	1021114	•	-9659 May 06 j 12:21	23°M23'24	
minimum elong	-9665 Jan 05 j 12:22	7°M18'05		retrograde opposition	-9659 Jul 24 j 13:42	23 11623 24 21°M58'08	200017
max. Earth dist.	-9665 Jan 06 j 10:37		30.84826 AU	min. Earth dist.	-9659 Jul 23 j 23:23		28.83204 AU
morning rise	-9665 Jan 21 j 17:40	7°M54'14	30.84820 AU	direct	-9659 Oct 09 j 20:45	20°M34'12	28.83204 AU
retrograde	-9665 Apr 23 j 04:15	9°M52'51		evening set	-9658 Jan 05 j 12:09	20 IIL34 12 22°IL28'08	
opposition	-9665 Jul 11 j 19:13	8°M27'24	-1°20'44	evening set	-9036 Jan 03 j 12.09	22 1162000	
min. Earth dist.	-9665 Jul 10 j 23:56		28.84796 AU	conjunction	-9658 Jan 21 j 16:01	23°M04'03	-1°54'33
direct	-9665 Sep 26 j 22:59	7°M03'50	20.04770710	minimum elong	-9658 Jan 21 j 16:00	23°M04'03	
evening set	-9665 Dec 22 j 23:45	8°M57'02		max. Earth dist.	-9658 Jan 22 j 08:16		30.82847 AU
evening sec	7003 Bec 22 j 25.15	0 11037 02		morning rise	-9658 Feb 06 j 22:10	23°M40'13	30.02017110
conjunction	-9664 Jan 08 j 02:04	9° ™ 32'52 -	-1°26'26	retrograde	-9658 May 09 j 01:03	25°M38'27	
minimum elong	-9664 Jan 08 j 02:03	9°M32'52		min. Earth dist.	-9658 Jul 26 j 10:50		28.82752 AU
max. Earth dist.	-9664 Jan 08 j 23:16		30.84621 AU	opposition	-9658 Jul 27 j 00:28	24°M 13'11	
morning rise	-9664 Jan 24 j 07:38	10°M09'02		direct	-9658 Oct 12 j 10:14	22°M49'09	
retrograde	-9664 Apr 24 j 18:23	12°M07'39		evening set	-9657 Jan 08 j 02:31	24°M43'09	
min. Earth dist.	-9664 Jul 12 j 10:52		28.84627 AU			15 07	
opposition	-9664 Jul 13 j 06:19	10°M42'15		conjunction	-9657 Jan 24 j 06:24	25°M₁9'05	-1°58'40
direct	-9664 Sep 28 j 09:28	9° ™ 18'39		minimum elong	-9657 Jan 24 j 06:23	25° ™ 19'05	
evening set	-9664 Dec 24 j 13:32	11°ML12'00		max. Earth dist.	-9657 Jan 24 j 20:44		30.82410 AU
Č	, -·			morning rise	-9657 Feb 09 j 12:45	25°M55'15	
conjunction	-9663 Jan 09 j 16:07	11° M .47'51 -	-1°31'29	retrograde	-9657 May 11 j 13:58	27°M53'22	
minimum elong	-9663 Jan 09 j 16:06	11° M 47'51		opposition	-9657 Jul 29 j 11:19	26°M28'05	-2°09'05
max. Earth dist.	-9663 Jan 10 j 12:54		30.84452 AU	min. Earth dist.	-9657 Jul 28 j 22:15		28.82358 AU
morning rise	-9663 Jan 25 j 21:50	12°M24'01		direct	-9657 Oct 14 j 21:38	25°M03'57	
retrograde	-9663 Apr 27 j 06:05	14°M22'37		evening set	-9656 Jan 10 j 16:35	26°M58'03	
opposition	-9663 Jul 15 j 17:25	12°M57'17	-1°40'32	-	,		
min. Earth dist.	-9663 Jul 14 j 23:44	12°M58'32	28.84470 AU	conjunction	-9656 Jan 26 j 20:44	27°M33'59	-2°02'36
direct	-9663 Sep 30 j 19:05	11°M33'38		minimum elong	-9656 Jan 26 j 20:44	27°M33'58	
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Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9656 in astronomical counting style is the year 9657 BCE in historical counting style. -9656 Jan 27 j 11:20 27°M35'20 30.82040 AU retrograde -9650 May 27 j 05:23 13°**∡**36'58 max. Earth dist. -9656 Feb 12 j 02:58 28°M10'08 -9650 Aug 13 j 14:04 12°**₹**12'07 -2°33'19 morning rise opposition -9656 Apr 20 j 22:05 0°×7 min. Earth dist. -9650 Aug 13 j 06:19 12°**✗**12'41 28.82926 AU 0°**₺**08'08 -9650 Oct 30 j 06:28 10°**х** 47′38 -9656 May 13 j 01:07 direct retrograde -9656 Jun 04 j 06:38 -9649 Jan 26 j 22:18 12°**х** 42′43 30°RM evening set -9656 Jul 30 j 22:08 opposition 28°M42'52 -2°13'11 -9649 Feb 12 j 03:14 13°**∡**18'41 -2°24'34 min. Earth dist. -9656 Jul 30 j 10:05 28°M43'44 28.82049 AU conjunction -9649 Feb 12 j 03:14 direct -9656 Oct 16 j 09:27 27°M18'38 minimum elong 13°**∡**18'41 2°25'06 -9649 Feb 12 j 12:03 evening set -9655 Jan 12 j 06:55 29°M12'50 max. Earth dist. 13°**✗**19'30 30.82887 AU 13°**∡**¹54'46 morning rise -9649 Feb 28 j 09:06 conjunction -9655 Jan 28 j 11:11 29° M48'46 -2° 06'20 retrograde -9649 May 29 j 18:22 15°**х** 52′13 -9655 Jan 28 j 11:10 -9649 Aug 16 j 00:49 minimum elong 29° M48'46 $2^{\circ}06'48$ opposition 14°**₹**27'27 -2°35'53 -9655 Jan 29 j 00:22 29° ML50'00 30.81797 AU -9649 Aug 15 j 17:58 max. Earth dist. min. Earth dist. 14°**✗**27'56 28.83220 AU -9655 Feb 02 j 11:25 0°**√** direct -9649 Nov 01 j 20:06 13°**х** 02′56 morning rise -9655 Feb 13 j 17:32 0°**х** 24'55 evening set -9648 Jan 29 j 13:05 14°**х** 58′09 retrograde -9655 May 15 j 14:49 2°×22'49 opposition -9655 Aug 02 j 08:42 0°**∡**757'35 -2°17'05 conjunction -9648 Feb 14 j 17:57 15° ₹34'07 -2°26'51 min. Earth dist. -9655 Aug 01 j 20:32 0°**₹**'58'27 28.81884 AU minimum elong -9648 Feb 14 j 17:56 15°**∡**34'07 2°27'23 -9655 Sep 08 j 10:09 30°RM max. Earth dist. -9648 Feb 15 j 00:22 15°**∡**′34'43 30.83144 AU direct -9655 Oct 18 j 20:31 29°M33'15 morning rise -9648 Mar 01 j 23:54 16°**х** 10′11 -9655 Nov 27 j 17:19 0°×7 retrograde -9648 May 31 j 07:51 18°**х** 07′32 evening set -9654 Jan 14 j 21:21 1°**х** 27′35 opposition -9648 Aug 17 i 11:34 16°**∡**¹42'51 -2°38'13 min. Earth dist. -9648 Aug 17 j 05:41 16°**⊀**'43'16 28.83447 AU conjunction -9654 Jan 31 i 01:45 2°×103'31 -2°09'53 direct -9648 Nov 03 i 07:56 15°**∡**18'16 -9654 Jan 31 i 01:45 2°**1**03'31 2°10'21 2° evening set -9647 Jan 31 j 03:58 17°**х** 13'37 minimum elong -9654 Jan 31 j 14:39 2°**₹**'04'44 30.81688 AU max. Earth dist. -9654 Feb 16 j 08:01 2°×39'39 -9647 Feb 16 j 09:02 17°**∡** 49'35 -2°28'55 morning rise conjunction -9654 May 18 j 01:25 4°**х** 37′28 -9647 Feb 16 j 09:01 retrograde minimum elong 17° **2**′49'34 2°29'28 -9654 Aug 04 j 19:30 -9647 Feb 16 j 15:06 17°**₹**'50'09 30.83318 AU 3°**х** 12'17 -2°20'46 max. Earth dist. opposition -9654 Aug 04 j 08:50 -9647 Mar 04 j 14:43 18°**₹**25'38 min. Earth dist. 3°**≯**13'02 28.81863 AU morning rise -9654 Oct 21 j 06:41 1°**∡**¹47'54 -9647 Jun 02 j 19:55 retrograde 20°**₹**22'51 direct -9653 Jan 17 j 11:39 3°**х** 42′21 opposition -9647 Aug 19 j 22:12 18°**₹**58'13 -2°40'18 evening set -9647 Aug 19 j 17:56 min. Earth dist. 18° ₹ 58'31 28.83585 AU -9653 Feb 02 j 16:12 4° ₹18'17 -2°13'14 -9647 Nov 05 j 20:30 conjunction direct 17°**₹**33'34 19°**х²**29'01 -9653 Feb 02 j 16:11 -9646 Feb 02 j 18:56 minimum elong 4° **₹**18'17 2°13'44 evening set -9653 Feb 03 j 04:28 max. Earth dist. 4°**✗**19'26 30.81744 AU -9653 Feb 18 j 22:25 -9646 Feb 18 j 23:57 20°**₹**04'59 -2°30'45 morning rise 4°**∡** 54'25 conjunction retrograde -9653 May 20 j 14:06 6°**х** 52′09 minimum elong -9646 Feb 18 j 23:57 20°**∡**104'59 2°31'18 -9653 Aug 07 j 06:05 5°**∡**127'02 -2°24'15 max. Earth dist. -9646 Feb 19 j 03:52 20°**✗**05'21 30.83434 AU opposition min. Earth dist. -9653 Aug 06 j 19:02 5°**҂**27'49 28.81994 AU morning rise -9646 Mar 07 j 05:40 20°**х** 41′01 -9653 Oct 23 j 19:32 4°**х**¹02'36 retrograde -9646 Jun 05 j 09:48 22°**₹**38'06 direct -9652 Jan 20 j 02:10 5°**∡**¹57'13 -9646 Aug 22 j 08:47 21° 🖈 13'30 -2°42'08 evening set opposition min. Earth dist. -9646 Aug 22 j 04:48 21° 🖍 13'47 28.83687 AU -9652 Feb 05 j 06:44 6°**₹**33'09 -2°16'23 -9646 Nov 08 j 08:24 19°**∡**¹48'46 conjunction direct -9652 Feb 05 j 06:43 -9645 Feb 05 j 09:39 21°**х** 44'18 minimum elong 6°**х** 33'09 2°16'53 evening set -9652 Feb 05 i 17:53 max. Earth dist. 6° ₹34'12 30.81932 AU -9645 Feb 21 i 14:44 morning rise -9652 Feb 21 i 12:58 7°**х** 09′16 conjunction 22°**₹**20'16 -2°32'22 retrograde -9652 May 22 j 02:11 9°**х** 06′56 minimum elong -9645 Feb 21 i 14:44 22°**₹**20'16 2°32'56 opposition -9652 Aug 08 j 16:47 7°**х** 41′54 -2°27′30 max. Earth dist. -9645 Feb 21 i 18:07 22° 20'35 30.83518 AU min. Earth dist. -9652 Aug 08 j 07:22 7°**∡**142'34 28.82254 AU morning rise -9645 Mar 09 i 20:12 22° ₹ 56'17 direct -9652 Oct 25 j 06:06 6°**х** 17′27 retrograde -9645 Jun 07 j 19:39 24°**₹**′53'14 -9651 Jan 21 j 16:40 8°**х** 12′13 -9645 Aug 24 j 19:26 23°**x**⁷28'40 -2°43'44 evening set opposition min. Earth dist. -9645 Aug 24 j 17:18 23° 28'49 28.83788 AU conjunction -9651 Feb 06 j 21:29 8°**≯**48'10 -2°19'20 direct -9645 Nov 10 j 19:24 22°×703'50 minimum elong -9651 Feb 06 j 21:28 8°**х** 48'10 2°19'51 evening set -9644 Feb 08 j 00:24 23°**₹**59'28 max. Earth dist. -9651 Feb 07 j 08:25 8°**≯**49'11 30.82235 AU -9651 Feb 23 j 03:35 9°×24'16 conjunction -9644 Feb 24 j 05:31 24°**₹**35'25 -2°33'44 morning rise -9651 May 24 j 15:28 11°**₹**'21'52 -9644 Feb 24 j 05:31 24° x 35'25 2°34'18 retrograde minimum elong -9651 Aug 11 j 03:23 9°**∡** 56′56 -2°30′31 -9644 Feb 24 j 07:47 24°**✗**35'38 30.83649 AU opposition max. Earth dist. -9651 Aug 10 j 18:04 9°**尽**57'36 28.82581 AU -9644 Mar 11 j 10:55 25°**х** 11′25 min. Earth dist. morning rise -9651 Oct 27 j 18:54 8°**∡**32'28 27°**₹**08'12 direct retrograde -9644 Jun 09 j 07:30 evening set -9650 Jan 24 j 07:32 10°**х** 27′24 opposition -9644 Aug 26 j 05:45 25°**х** 43'41 -2°45'05 min. Earth dist. -9644 Aug 26 j 03:32 25° ₹ 43'50 28.83954 AU conjunction -9650 Feb 09 j 12:15 11°**₹**03'21 -2°22'03 direct -9644 Nov 12 j 08:27 24°**х** 18'46 minimum elong -9650 Feb 09 j 12:14 11°× 03'21 2°22'34 evening set -9643 Feb 09 j 15:11 26° **₹**14'29 max. Earth dist. -9650 Feb 09 j 21:08 11°**∡**°04'10 30.82567 AU -9650 Feb 25 j 18:23 11°**∡**³39′26 -9643 Feb 25 j 20:18 26°**х** 50'26 -2°34'53 morning rise conjunction

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9643 in astronomical counting style is the year 9644 BCE in historical counting style. 26°**₹** 50′26 2°35′28 opposition -9643 Feb 25 i 20:18 -9637 Sep 11 i 07:11 11°る27'25 -2°47'21 minimum elong 26°**₹**50'32 30.83851 AU -9643 Feb 25 j 21:26 min. Earth dist. -9637 Sep 11 j 10:41 11°る27'10 28.88270 AU max. Earth dist. -9643 Mar 14 j 01:34 27°×726'24 -9637 Nov 28 j 22:49 10°**ප**02'15 direct morning rise -9643 Jun 11 j 18:41 29°×23'03 -9636 Feb 26 j 22:16 11°る58'44 retrograde evening set -9643 Aug 28 j 16:20 27°**₹**58'34 -2°46'10 opposition -9643 Aug 28 j 15:46 -9636 Mar 14 j 03:23 12°る34'39 -2°36'11 min. Earth dist. 27°**≯**58'37 28.84222 AU conjunction 12°る34'39 2°36'45 -9636 Mar 14 j 03:23 direct -9643 Nov 14 j 18:43 26°**х** 33′34 minimum elong -9642 Feb 12 j 05:53 28°**₹**29'23 -9636 Mar 13 j 22:06 12°る34'10 30.88412 AU evening set max. Earth dist. morning rise -9636 Mar 30 j 07:22 13°る10'30 conjunction -9642 Feb 28 j 11:05 29°**х** 05′19 -2°35′47 retrograde -9636 Jun 27 j 08:23 15°**る**06'13 minimum elong -9642 Feb 28 j 11:05 29° \$\square\$05'19 2°36'21 opposition -9636 Sep 12 j 17:46 13°る42'23 -2°46'39 -9642 Feb 28 j 11:54 -9636 Sep 12 j 23:26 max. Earth dist. 29°**✗**05'24 30.84181 AU min. Earth dist. 13°る41'59 28.88987 AU -9636 Nov 30 j 10:24 morning rise -9642 Mar 16 j 16:07 29°**х** 41'17 direct 12°**る**17'10 -9642 Mar 25 j 10:13 0°정 evening set -9635 Feb 28 j 13:09 14°る13'45 retrograde -9642 Jun 14 j 06:13 1°**る**37'46 opposition -9642 Aug 31 j 02:42 0°る13'21 -2°47'01 conjunction -9635 Mar 16 j 18:13 14°る49'40 -2°35'25 min. Earth dist. -9642 Aug 31 j 02:01 0°る13'24 28.84618 AU minimum elong -9635 Mar 16 j 18:13 14°る49'40 2°36'00 -9642 Sep 07 j 22:25 30°R*x*7 max. Earth dist. -9635 Mar 16 j 11:10 14°る49'00 30.89087 AU direct -9642 Nov 17 j 07:49 28°**∡**¹48'17 morning rise -9635 Apr 01 j 22:06 15°る25'29 -9641 Jan 24 j 09:11 0°る retrograde -9635 Jun 29 j 20:56 17°る21'03 evening set -9641 Feb 14 j 20:39 0°る44'13 opposition -9635 Sep 15 j 04:20 15°る57'17 -2°45'42 min. Earth dist. -9635 Sep 15 i 10:13 15°る56'52 28.89600 AU conjunction -9641 Mar 03 i 01:42 1°る20'08 -2°36'27 direct -9635 Dec 02 j 23:31 14°る32'02 minimum elong -9641 Mar 03 i 01:42 1°る20'08 2°37'02 evening set -9634 Mar 03 j 03:57 16°る28'40 max. Earth dist. -9641 Mar 03 i 00:52 1°る20'03 30.84650 AU -9641 Mar 19 j 06:41 1°**궁**56'04 -9634 Mar 19 j 08:57 17°る04'35 -2°34'25 morning rise conjunction -9641 Jun 16 j 18:30 3°**る**52'26 -9634 Mar 19 j 08:57 17°る04'35 2°34'59 retrograde minimum elong opposition -9641 Sep 02 j 13:13 2°る28'05 -2°47'36 -9634 Mar 19 j 00:34 17°る03'48 30.89645 AU max. Earth dist. 2°る28'03 28.85176 AU -9641 Sep 02 j 13:39 morning rise -9634 Apr 04 j 12:35 17°る40'23 min. Earth dist. -9634 Jul 02 j 07:50 -9641 Nov 19 j 19:37 1°る02'58 19°る35'48 direct retrograde 18°る12'06 -2°44'30 -9640 Feb 17 j 11:06 2°る59'00 opposition -9634 Sep 17 j 14:59 evening set -9634 Sep 17 j 22:52 18°る11'32 28.90122 AU min. Earth dist. -9640 Mar 04 j 16:22 3°る34'56 -2°36'53 -9634 Dec 05 j 10:00 conjunction 16°**ප්**46'46 direct 18°る43'28 -9640 Mar 04 j 16:21 3°る34'56 2°37'27 -9633 Mar 05 j 18:33 minimum elong evening set 3°る34'53 30.85278 AU -9640 Mar 04 j 15:49 max. Earth dist. 19°る19'22 -2°33'11 -9640 Mar 20 j 21:03 4°る10'51 -9633 Mar 21 j 23:35 morning rise conjunction -9640 Jun 18 j 06:19 6°る07'05 -9633 Mar 21 j 23:36 retrograde minimum elong 19°る19'22 2°33'45 opposition -9640 Sep 03 j 23:41 4°る42'49 -2°47'55 max. Earth dist. -9633 Mar 21 j 14:23 19°る18'30 30.90144 AU min. Earth dist. -9640 Sep 04 j 00:43 4°る42'45 28.85858 AU morning rise -9633 Apr 07 j 03:01 19°**る**55'09 direct -9640 Nov 21 j 09:21 3°る17'41 retrograde -9633 Jul 04 j 18:37 21°る50'23 -9639 Feb 19 j 01:57 5°る13'50 opposition -9633 Sep 20 j 01:26 20°る26'44 -2°43'04 evening set min. Earth dist. -9633 Sep 20 j 09:33 20°る26'10 28.90589 AU -9639 Mar 07 j 07:02 5°る49'46 -2°37'04 -9633 Dec 07 j 23:32 19°**る**01'21 conjunction direct -9639 Mar 07 j 07:02 5°る49'46 2°37'40 -9632 Mar 07 j 09:03 20°る58'06 minimum elong evening set -9639 Mar 07 j 04:28 5°る49'31 30.86023 AU max. Earth dist. -9639 Mar 23 j 11:44 6°る25'40 -9632 Mar 23 i 13:57 21°**ට**33'59 -2°31'43 morning rise conjunction -9639 Jun 20 j 19:44 8°**る**21'46 retrograde minimum elong -9632 Mar 23 j 13:58 21°る33'59 2°32'16 -9639 Sep 06 i 10:04 6°る57'37 -2°47'59 opposition max. Earth dist. -9632 Mar 23 j 02:55 21°る32'57 30.90605 AU min. Earth dist. -9639 Sep 06 i 11:49 6°る57'30 28.86650 AU morning rise -9632 Apr 08 i 17:18 22°る09'45 direct -9639 Nov 23 j 20:55 5°る32'28 retrograde -9632 Jul 06 i 05:47 24° ₹ 04'49 -9638 Feb 21 j 16:43 7°₹28'44 opposition -9632 Sep 21 j 11:57 22°₹41'12 -2°41'23 evening set min. Earth dist. -9632 Sep 21 j 21:27 22°る40'32 28.91056 AU -9638 Mar 09 j 21:56 8°중04'40 -2°37'01 -9632 Dec 09 j 11:21 21°**る**15'44 conjunction direct 8°る04'40 2°37'35 23°**る**12'32 minimum elong -9638 Mar 09 j 21:56 evening set -9631 Mar 09 j 23:26 max. Earth dist. -9638 Mar 09 j 19:26 8°る04'26 30.86835 AU morning rise -9638 Mar 26 j 02:16 8°る40'32 conjunction -9631 Mar 26 j 04:26 23°る48'25 -2°30'01 retrograde -9638 Jun 23 j 08:06 10°る36'31 minimum elong -9631 Mar 26 j 04:26 23°る48'25 2°30'35 -9638 Sep 08 j 20:40 9°る12'29 -2°47'48 -9631 Mar 25 j 17:26 23°る47'24 30.91088 AU opposition max. Earth dist. -9638 Sep 08 j 23:53 9°**궁**12'16 28.87469 AU -9631 Apr 11 j 07:27 24°る24'09 min. Earth dist. morning rise -9638 Nov 26 j 10:11 7°る47'20 -9631 Jul 08 j 16:30 26°る19'03 direct retrograde -9637 Feb 24 j 07:28 9°**る**43'43 -9631 Sep 23 j 22:20 24°る55'30 -2°39'27 evening set opposition min. Earth dist. -9631 Sep 24 j 08:32 24°る54'47 28.91554 AU conjunction -9637 Mar 12 j 12:30 10°る19'38 -2°36'43 direct -9631 Dec 12 j 01:04 23°る29'58 minimum elong -9637 Mar 12 j 12:31 10°る19'38 2°37'18 evening set -9630 Mar 12 j 13:52 25°**る**26'50 max. Earth dist. -9637 Mar 12 j 07:52 10°る19'12 30.87655 AU -9637 Mar 28 j 16:48 10°る55'30 -9630 Mar 28 j 18:37 26° ත්02'41 -2°28'07 morning rise conjunction

-9637 Jun 25 j 21:41

retrograde

12°**る**51'22

-9630 Mar 28 j 18:37

minimum elong

26°**ප්**02'41 2°28'38

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9630 in astronomical counting style is the year 9631 BCE in historical counting style. -9630 Mar 28 i 05:47 26°る01'30 30.91634 AU min. Earth dist. -9624 Oct 09 i 14:34 10°≈32'45 28.97785 AU max. Earth dist. -9630 Apr 13 j 21:34 26°る38'24 -9624 Dec 27 j 16:33 9°**≈**08'13 direct morning rise -9630 Jul 11 j 05:00 28°る33'09 -9623 Mar 28 j 16:14 11°≈05'28 evening set retrograde -9630 Sep 26 j 08:50 27°る09'38 -2°37'17 opposition -9630 Sep 26 j 19:26 27°る08'53 28.92156 AU min. Earth dist. conjunction -9623 Apr 13 j 20:17 11°≈41'17 -2°08'39 -9623 Apr 13 j 20:18 direct -9630 Dec 14 j 12:49 25°る44'03 minimum elong 11°≈41'17 2°09'07 -9629 Mar 15 j 03:49 -9623 Apr 13 j 01:58 evening set 27°**る**40'58 max. Earth dist. 11°≈39'35 30.98080 AU -9623 Apr 29 j 21:31 morning rise 12°≈16′52 -9623 Jul 26 j 12:04 14°≈10'40 conjunction -9629 Mar 31 j 08:39 28°る16'49 -2°25'58 retrograde 12°≈47'48 -2°15'41 -9623 Oct 11 j 10:28 minimum elong -9629 Mar 31 j 08:40 28°る16'49 2°26'31 opposition max. Earth dist. -9629 Mar 30 j 20:21 28°る15'41 30.92291 AU min. Earth dist. -9623 Oct 12 j 02:38 12°≈46'40 28.98689 AU -9629 Apr 16 j 11:13 28°る52'31 morning rise direct -9623 Dec 30 j 03:30 11°≈22'12 -9622 Mar 31 j 06:07 -9629 May 20 j 23:53 0°≈ evening set 13°≈19'28 retrograde -9629 Jul 13 j 16:28 0°≈47'07 -9629 Sep 06 j 17:27 30°Rる conjunction -9622 Apr 16 j 10:08 13°≈55'17 -2°05'04 opposition -9629 Sep 28 j 19:21 29°る23'40 -2°34'53 minimum elong -9622 Apr 16 j 10:09 13°**≈**55'17 2°05'31 min. Earth dist. -9629 Sep 29 j 06:59 29°る22'51 28.92871 AU max. Earth dist. -9622 Apr 15 j 15:39 13°≈53'34 30.98940 AU direct -9629 Dec 17 j 02:54 27°る58'04 morning rise -9622 May 02 j 11:00 14°≈30'50 evening set -9628 Mar 16 j 18:00 29°る55'02 -9622 May 16 j 06:58 -9628 Mar 19 j 00:47 retrograde -9622 Jul 28 j 22:17 16°≈24'29 opposition -9622 Oct 13 j 21:13 15°≈01'41 -2°11'45 conjunction -9628 Apr 01 j 22:37 0°≈30'53 -2°23'37 -9622 Oct 14 i 21:06 15°R≈ -9628 Apr 01 j 22:38 0°≈30'53 2°24'08 min. Earth dist. -9622 Oct 14 j 14:11 15°≈00'29 28.99483 AU minimum elong max. Earth dist. -9628 Apr 01 i 08:35 0°≈29'34 30.93088 AU direct -9621 Jan 01 i 16:26 13°≈36'03 morning rise -9628 Apr 18 j 01:08 1°≈06'33 -9621 Mar 17 j 21:47 15°**≈** -9628 Jul 15 j 05:09 3°≈01'00 evening set -9621 Apr 02 j 19:51 15°≈33'19 retrograde opposition -9628 Sep 30 j 05:37 1°≈37'38 -2°32'14 -9628 Sep 30 j 17:02 -9621 Apr 18 j 23:33 16°≈09'06 -2°01'17 min. Earth dist. 1°≈36'50 28.93729 AU conjunction -9628 Dec 18 j 15:57 -9621 Apr 18 j 23:34 0° 22'01 16° \$\$09'06 2° 01'45 direct minimum elong -9627 Mar 19 j 08:07 2°≈09'04 -9621 Apr 18 j 03:07 16°≈07'12 30.99701 AU max. Earth dist. evening set -9621 May 05 j 00:18 morning rise 16°≈44'38 2°≈44'54 -2°21'02 -9627 Apr 04 j 12:46 -9621 Jul 31 j 09:46 conjunction 18°≈38'08 retrograde -9621 Oct 16 j 07:50 -9627 Apr 04 j 12:46 2°≈44'54 2°21'34 17°≈15'22 -2°07'38 minimum elong opposition 17°≈14'07 29.00206 AU -9627 Apr 03 j 22:48 -9621 Oct 17 j 01:24 max. Earth dist. 2°≈43'36 30.94009 AU min. Earth dist. -9627 Apr 20 j 14:54 -9620 Jan 04 j 04:28 morning rise 3°≈20'33 direct 15°≈49'40 -9627 Jul 17 j 15:45 -9620 Apr 04 j 09:25 retrograde 5°≈14'53 evening set 17°≈46'56 -9627 Oct 02 j 16:13 opposition 3°≈51'38 -2°29'22 min. Earth dist. -9627 Oct 03 j 05:14 3°≈50'42 28.94698 AU conjunction -9620 Apr 20 j 13:08 18°≈22'42 -1°57'21 direct -9627 Dec 21 j 03:52 2°≈26'01 minimum elong -9620 Apr 20 j 13:09 18°≈22'42 1°57'47 -9626 Mar 21 j 22:10 4°≈23'07 max. Earth dist. -9620 Apr 19 j 17:00 18°≈20'50 31.00397 AU evening set max. Earth dist. -9626 Apr 06 j 11:29 4°≈57'33 30.95033 AU morning rise -9620 May 06 j 13:27 18°≈58'12 -9620 Aug 01 j 19:56 20°≈51'33 retrograde -9626 Apr 07 j 02:37 4°≈58'58 -2°18'15 -9620 Oct 17 j 18:23 19°≈28'47 -2°03'20 conjunction opposition -9626 Apr 07 j 02:37 4°≈58'58 2°18'46 min. Earth dist. -9620 Oct 18 j 13:17 19°≈27'28 29.00871 AU minimum elong -9626 Apr 23 j 04:37 5°**≈**34'35 -9619 Jan 05 j 18:45 18°**≈**03'03 morning rise direct -9626 Jul 20 i 04:25 retrograde 7°≈28'47 evening set -9619 Apr 06 i 23:04 20°≈00'18 -9626 Oct 05 i 02:38 opposition 6°≈05'39 -2°26'17 max. Earth dist. -9619 Apr 22 j 04:31 20°≈34'00 31.01071 AU min. Earth dist. -9626 Oct 05 i 15:26 6°≈04'45 28.95737 AU -9619 Apr 23 i 02:26 direct -9626 Dec 23 i 16:46 4°≈40'04 conjunction 20°≈36'03 -1°53'14 minimum elong -9625 Mar 24 j 12:13 6°≈37'13 -9619 Apr 23 i 02:27 20°≈36'03 1°53'39 evening set -9619 May 09 i 02:38 21°≈11'31 morning rise -9625 Apr 09 j 16:33 7°≈13'04 -2°15'15 -9619 Aug 04 j 07:49 23°≈04'42 conjunction retrograde -9625 Apr 09 j 16:34 7°≈13'04 2°15'46 -9619 Oct 20 j 04:57 21°≈41'58 -1°58'51 minimum elong opposition -9625 Apr 09 j 00:45 max. Earth dist. 7°≈11'35 30.96088 AU min. Earth dist. -9619 Oct 20 j 23:36 21°≈40'39 29.01546 AU morning rise -9625 Apr 25 j 18:15 7°248'40 direct -9618 Jan 08 j 08:05 20°≈16'10 retrograde -9625 Jul 22 j 15:22 9°242'45 evening set -9618 Apr 09 j 12:17 22°≈13'24 opposition -9625 Oct 07 j 13:13 8°≈19'43 -2°22'57 -9625 Oct 08 j 03:48 8°≈18'41 28.96793 AU -9618 Apr 25 j 15:33 22°≈49'08 -1°48'58 min. Earth dist. conjunction 6°≈54'08 -9618 Apr 25 j 15:34 direct -9625 Dec 26 j 02:53 minimum elong 22°≈49'08 1°49'22 -9624 Mar 26 j 02:08 -9618 Apr 24 j 18:00 evening set 8°≈51'21 max. Earth dist. 22°≈47'07 31.01765 AU -9618 May 11 j 15:16 morning rise 23°≈24'34 conjunction -9624 Apr 11 j 06:25 9°≈27'11 -2°12'03 retrograde -9618 Aug 06 j 17:54 25°≈17'36 minimum elong -9624 Apr 11 j 06:26 9°≈27'11 2°12'31 opposition -9618 Oct 22 j 15:40 23°≈54'53 -1°54'12 max. Earth dist. -9624 Apr 10 j 13:52 9°≈25'38 30.97131 AU min. Earth dist. -9618 Oct 23 j 11:43 23°≈53'29 29.02270 AU morning rise -9624 Apr 27 j 07:54 10°≈02'47 direct -9617 Jan 10 j 20:46 22°≈29'04 -9624 Jul 24 j 01:29 -9617 Apr 12 j 01:30 24°≈26'17 retrograde 11°≈56'43 evening set -9624 Oct 08 j 23:48 10°≈33'48 -2°19'26 max. Earth dist. -9617 Apr 27 j 06:00 24°≈59'53 31.02549 AU opposition

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9617 in astronomical counting style is the year 9618 BCE in historical counting style. opposition -9617 Apr 28 i 04:27 25°≈01'59 -1°44'32 -9611 Nov 06 i 18:44 9°\(\frac{1}{23'15}\) -1°17'21 conjunction -9617 Apr 28 j 04:29 min. Earth dist. -9611 Nov 07 j 17:22 9°**升**21'41 29.09880 AU minimum elong 25°≈01'59 1°44'55 -9617 May 14 j 04:00 -9610 Jan 26 j 09:34 7° **\ 5**7'40 25°≈37'23 direct morning rise -9617 Aug 09 j 05:52 -9610 Apr 27 j 19:35 9°**)** 54′56 27°≈30'16 retrograde evening set -9617 Oct 25 j 02:07 opposition 26°≈07'36 -1°49'23 -9610 May 13 j 20:25 10°**)** 30'30 -1°09'37 min. Earth dist. -9617 Oct 25 j 21:31 26°≈06'14 29.03100 AU conjunction -9610 May 13 j 20:25 direct -9616 Jan 13 j 10:29 24°≈41'46 minimum elong 10°**₭**30'30 1°09'52 -9610 May 12 j 19:01 evening set -9616 Apr 13 j 14:32 26°≈38'58 max. Earth dist. 10°**¥**28′08 31.10332 AU morning rise -9610 May 29 j 17:26 11°**)** 05'44 conjunction -9616 Apr 29 j 17:19 27°≈14'39 -1°39'57 retrograde -9610 Aug 24 j 07:06 12°**)** 58'03 minimum elong -9616 Apr 29 j 17:20 27°**≈**14'39 1°40'19 opposition -9610 Nov 09 j 05:41 11°\(\dagger)35'56 -1°11'34 -9616 Apr 28 j 18:48 -9610 Nov 10 j 03:58 max. Earth dist. 27°≈12'33 31.03442 AU min. Earth dist. 11°**∺**34'23 29.10903 AU -9609 Jan 28 j 21:58 morning rise -9616 May 15 j 16:28 27°≈50'02 direct 10°**升** 10′22 retrograde -9616 Aug 10 j 16:02 29°**≈**42'48 evening set -9609 Apr 30 j 08:10 12°\mathbf{1}07'37 opposition -9616 Oct 26 j 12:49 28°≈20'11 -1°44'24 max. Earth dist. -9609 May 15 j 07:39 12°**¥**40'49 31.11299 AU min. Earth dist. -9616 Oct 27 j 09:22 28°≈18'45 29.04057 AU direct -9615 Jan 14 j 21:38 26°≈54'21 conjunction -9609 May 16 j 08:47 12°\(\pm\)43'09 -1°04'10 evening set -9615 Apr 16 j 03:32 28°≈51'34 minimum elong -9609 May 16 j 08:48 12°\dagger43'10 1°04'24 max. Earth dist. -9615 May 01 j 07:29 29°≈25'07 31.04477 AU morning rise -9609 Jun 01 j 05:13 13°**¥** 18'22 retrograde -9609 Aug 26 j 17:24 15°**)** 10′35 conjunction -9615 May 02 j 06:03 29°≈27'14 -1°35'13 opposition -9609 Nov 11 j 16:40 13°\(\pm\)48'31 -1°05'42 minimum elong -9615 May 02 j 06:04 29°≈27'14 1°35'34 min. Earth dist. -9609 Nov 12 i 16:31 13°\(\)46'52 29.11814 AU -9615 May 17 j 00:27 0°**)**€ direct -9608 Jan 31 i 10:45 12°\ 22'58 morning rise -9615 May 18 i 04:53 0°\ 02'35 evening set -9608 May 01 j 20:46 14° **\(**20'11 retrograde -9615 Aug 13 j 01:44 1° **)** 55'14 -9615 Oct 28 j 23:25 0°**¥**32'43 -1°39'16 -9608 May 17 j 20:54 14°\ 55'42 -0°58'37 opposition conjunction -9615 Oct 29 j 19:29 0°**¥**31'18 29.05135 AU -9608 May 17 j 20:55 14°**¥**55'42 0°58'51 min. Earth dist. minimum elong -9615 Nov 17 j 22:06 -9608 May 16 j 18:39 14°**¥**53'15 31.12173 AU 30°R≈ max. Earth dist. 29°≈06'55 -9608 Jun 02 j 17:04 direct -9614 Jan 17 j 10:59 15°**)** 30'51 morning rise 0°**)**€ -9608 Aug 28 j 05:35 17°**¥**23′00 -9614 Mar 17 j 03:20 retrograde opposition -9608 Nov 13 j 03:36 16°**)** €00'57 -0°59'44 evening set -9614 Apr 18 j 16:29 1°**)** 04'08 -9608 Nov 14 j 02:57 15°**¥**59'20 29.12631 AU min. Earth dist. -9614 May 04 j 18:40 1°**)** 39'47 -1°30'21 -9607 Feb 02 j 01:21 conjunction 14°**)** 35'24 direct -9614 May 04 j 18:41 1°**H**39'47 1°30'41 -9607 May 04 j 09:08 16°**)** 32'34 minimum elong evening set 1°**¥**37'36 31.05621 AU -9614 May 03 j 19:16 -9607 May 19 j 06:35 17°**₭**05'36 31.12957 AU max. Earth dist. max. Earth dist. -9614 May 20 j 17:10 2°**升**15'07 morning rise 17°**∺**08'03 -0°53'00 -9607 May 20 j 08:55 retrograde -9614 Aug 15 j 12:08 4°\(\frac{1}{2}\) conjunction -9614 Oct 31 j 10:10 2°\(\)45'16 -1°33'59 minimum elong -9607 May 20 j 08:55 17°**₭**08'03 0°53'12 opposition min. Earth dist. -9614 Nov 01 j 06:54 2°**)** 43'49 29.06327 AU morning rise -9607 Jun 05 j 04:32 17°**)** 43'10 -9613 Jan 19 j 21:01 1°¥19'31 retrograde -9607 Aug 30 j 15:34 19°**)** 35′13 direct -9613 Apr 21 j 05:07 3°¥16'45 -9607 Nov 15 j 14:41 18°**)** 13'11 -0°53'41 evening set opposition -9613 May 06 j 08:17 3°**¥**50'15 31.06850 AU min. Earth dist. -9607 Nov 16 j 15:16 18°**升**11'29 29.13396 AU max. Earth dist. -9606 Feb 04 j 13:36 16°**)** 47′38 direct -9613 May 07 j 07:08 3°**)** 52'23 -1°25'21 -9606 May 06 j 21:21 18°**)** 44'45 conjunction evening set -9613 May 07 j 07:09 3°**¥**52'23 1°25'40 minimum elong -9613 May 23 i 05:13 4°**)**€27'42 -9606 May 22 j 20:42 19°**¥**20'11 -0°47'19 morning rise conjunction -9606 May 22 i 20:43 retrograde -9613 Aug 17 j 21:54 6°**)**€20'12 minimum elong 19°**¥**20'11 0°47'29 -9613 Nov 02 j 20:57 -9606 May 21 j 18:25 opposition 4° **)** 57'52 -1°28'34 max. Earth dist. 19°**升**17'44 31.13723 AU min. Earth dist. -9613 Nov 03 j 18:08 4°**)** 56'23 29.07549 AU morning rise -9606 Jun 07 j 15:55 19°**)** 55'16 direct -9612 Jan 22 j 09:00 3°¥32'11 retrograde -9606 Sep 02 j 00:48 21°**H**47'14 -9612 Apr 22 j 18:03 5°¥29'26 -9606 Nov 18 i 01:41 20°\ 25'12 -0°47'34 evening set opposition min. Earth dist. -9606 Nov 19 j 01:41 20°\dagger23'32 29.14153 AU -9612 May 08 j 19:36 6°\tag{605'03} -1°20'13 direct -9605 Feb 07 j 03:20 18°**¥**59'38 conjunction minimum elong -9612 May 08 j 19:37 6°**)**€05'03 1°20'30 evening set -9605 May 09 j 09:19 20° ¥ 56'41 -9612 May 07 j 19:15 max. Earth dist. 6°**¥**02'47 31.08077 AU max. Earth dist. -9605 May 24 j 05:21 21°\(\mathbf{2}29'36\) 31.14498 AU 6°**)** 40′21 -9612 May 24 j 17:26 morning rise -9612 Aug 19 j 09:11 8°**)** 32'47 conjunction -9605 May 25 j 08:11 21°\dagger32'06 -0°41'34 retrograde -9612 Nov 04 j 07:39 7° **★**10'33 -1°23'01 -9605 May 25 j 08:12 21°**)** 32'06 0°41'43 opposition minimum elong -9612 Nov 05 j 05:07 7°**¥**09'03 29.08758 AU -9605 Jun 10 j 02:59 22°**)** 07'09 min. Earth dist. morning rise -9611 Jan 23 j 20:12 -9605 Sep 04 j 10:51 23°**)** 59'01 direct 5°**)** 44'55 retrograde evening set -9611 Apr 25 j 06:50 7°**)** 42′11 opposition -9605 Nov 20 j 12:44 22°**)** 37'00 -0°41'24 max. Earth dist. -9611 May 10 j 08:25 8°**¥**15'34 31.09252 AU min. Earth dist. -9605 Nov 21 j 13:06 22°\(\dagger)35'19 29.14961 AU direct -9604 Feb 09 j 14:21 21°**H**11'26 conjunction -9611 May 11 j 08:12 8°**H**17'47 -1°14'58 evening set -9604 May 10 j 21:13 23°**∺**08′26 minimum elong -9611 May 11 j 08:13 8°**H**17'47 1°15'14 -9611 May 27 j 05:28 8°**升**53′02 -9604 May 26 j 19:43 23°\dagger43'48 -0°35'46 morning rise conjunction -9611 Aug 21 j 19:18 10°**)** 45′25 -9604 May 26 j 19:43 23°**)** 43'48 0°35'53 retrograde minimum elong

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 24									
•	ical year style is used: Th		•						
max. Earth dist.	-9604 May 25 j 17:47	-	31.15344 AU	conjunction	-9598 Jun 09 j 14:33	6° Υ ′52'46	-0°00'09		
morning rise	-9604 Jun 11 j 13:56	24°) 18'49		minimum elong	-9598 Jun 09 j 14:34	6° Y ′52'46	0°00'09		
retrograde	-9604 Sep 05 j 19:32	26° ¥ 10′37		behind sun begin	-9598 Jun 09 j 08:11	6° Y ′52′12			
opposition	-9604 Nov 21 j 23:45	24°) 48′37	-0°35'10	behind sun end	-9598 Jun 09 j 20:56	6° Y ′53′20			
min. Earth dist.	-9604 Nov 23 j 00:04	24°) 46′56	29.15840 AU	max. Earth dist.	-9598 Jun 08 j 12:42	6° Y 50'21	31.21656 AU		
direct	-9603 Feb 11 j 02:59	23°) €23'04		asc. node	-9598 Jun 18 j 04:39	7° Υ 12'00			
evening set	-9603 May 13 j 09:12	25° ¥ 20′01		morning rise	-9598 Jun 25 j 05:40	7° Y ′27'34			
max. Earth dist.	-9603 May 28 j 04:18		31.16283 AU	retrograde	-9598 Sep 19 j 10:44	9° Y 19'18			
	,,			opposition	-9598 Dec 05 j 19:32	7° Y ′57'34	0°02'58		
conjunction	-9603 May 29 j 07:03	25° ¥ 55'21	-0°29'55	min. Earth dist.	-9598 Dec 06 j 20:17	7° Y 55'53	29.22144 AU		
minimum elong	-9603 May 29 j 07:03	25°) 55'21		direct	-9597 Feb 25 j 02:52	6° Y ′32′23	_,,,		
morning rise	-9603 Jun 14 j 00:53	26° ¥ 30′20		evening set	-9597 May 27 j 06:44	8° Υ 29'10			
retrograde	-9603 Sep 08 j 05:42	28°\(\frac{1}{2}2'05		max. Earth dist.	-9597 Jun 10 j 23:38		31.22520 AU		
opposition	-9603 Nov 24 j 10:54	27° ₩ 00'07	-0°28'53	man. Bartir dist.	707 Cum 10 j 25.50	, , 0102	31.22020110		
min. Earth dist.	-9603 Nov 25 j 10:41		29.16837 AU	conjunction	-9597 Jun 12 j 01:25	9° Ƴ 04'16	0°05'55		
direct	-9602 Feb 13 j 14:02	25°\ 34'36	27.10037710	minimum elong	-9597 Jun 12 j 01:24	9° Υ '04'16	0°05'56		
evening set	-9602 May 15 j 20:45	27°) 31'31		behind sun begin	-9597 Jun 11 j 19:14	9° Υ 03'43	0 03 30		
evening set	7002 Way 15 j 20.45	27 7(3131		behind sun end	-9597 Jun 12 j 07:35	9° Υ '04'49			
conjunction	-9602 May 31 j 18:16	28° ¥ 06'49	0°24'01	morning rise	-9597 Jun 27 j 16:00	9° Υ 39'01			
minimum elong	-9602 May 31 j 18:16	28°\(\)\(\)\(\)\(\)\(\)		retrograde	-9597 Sep 21 j 20:32	11° Υ 30'45			
max. Earth dist.	-9602 May 30 j 16:55		31.17329 AU	opposition	-9597 Dec 08 j 07:02	10° Υ 09'03	0°09'22		
		28° H 41'45	31.17329 AU		-9597 Dec 08 j 07:02		29.22923 AU		
morning rise	-9602 Jun 16 j 11:27	28°π41'45 0°Υ		min. Earth dist.	,	8° Υ 43'54	29.22923 AU		
. 1	-9602 Jul 28 j 02:38			direct	-9596 Feb 27 j 16:45	8° γ 43'54 10° Υ 40'38			
retrograde	-9602 Sep 10 j 14:35	0° Υ 33'29		evening set	-9596 May 28 j 18:12		21 22225 444		
.	-9602 Oct 26 j 16:13	30° ₹	0000104	max. Earth dist.	-9596 Jun 12 j 09:41	11° (13'13	31.23225 AU		
opposition	-9602 Nov 26 j 22:09	29°) 11'34							
min. Earth dist.	-9602 Nov 27 j 22:26		29.17917 AU	conjunction	-9596 Jun 13 j 12:12	11° Υ 15'42			
direct	-9601 Feb 16 j 01:55	27°) (46′07		minimum elong	-9596 Jun 13 j 12:12	11° Υ 15'42	0°11'54		
evening set	-9601 May 18 j 08:31	29°) 43′00		behind sun begin	-9596 Jun 13 j 07:41	11° Y 15′17			
	-9601 May 26 j 01:31	0° Υ		behind sun end	-9596 Jun 13 j 16:42	11° Υ 16'06			
max. Earth dist.	-9601 Jun 02 j 03:08	0° Y' 15'49	31.18452 AU	morning rise	-9596 Jun 29 j 02:15	11° Υ 50'25			
				retrograde	-9596 Sep 23 j 07:04	13° Y '42'08			
conjunction	-9601 Jun 03 j 05:22	0° Υ 18'15		opposition	-9596 Dec 09 j 18:35	12° Y ′20′26			
minimum elong	-9601 Jun 03 j 05:22	0° Υ 18'15	0°18'09	min. Earth dist.	-9596 Dec 10 j 19:14		29.23572 AU		
morning rise	-9601 Jun 18 j 22:13	0° Y 53′10		direct	-9595 Mar 01 j 04:23	10° Y ′55'19			
retrograde	-9601 Sep 13 j 02:03	2° Y '44'53		evening set	-9595 May 31 j 05:27	12° Y ′52'00			
opposition	-9601 Nov 29 j 09:09	1° Y 23'01	-0°16'12						
min. Earth dist.	-9601 Nov 30 j 08:33	1° Y 21'25	29.19054 AU	conjunction	-9595 Jun 15 j 22:58	13° Y 27'00	0°17'47		
	-9600 Feb 06 j 10:33	30° Ŗ ₩		minimum elong	-9595 Jun 15 j 22:58	13° Y 27'00	0°17'51		
direct	-9600 Feb 18 j 12:54	29° 升 57′38		max. Earth dist.	-9595 Jun 14 j 21:18	13° Y 24'36	31.23814 AU		
	-9600 Mar 01 j 17:00	0 ° Υ		morning rise	-9595 Jul 01 j 12:22	14° Ƴ 01'41			
evening set	-9600 May 19 j 20:08	1° Y 54'31		retrograde	-9595 Sep 25 j 15:51	15° Y ′53′24			
				opposition	-9595 Dec 12 j 06:17	14° Y 31'42	0°22'04		
conjunction	-9600 Jun 04 j 16:35	2° Y ′29'44	-0°12'08	min. Earth dist.	-9595 Dec 13 j 06:57	14° Y ′30′00	29.24101 AU		
minimum elong	-9600 Jun 04 j 16:35	2° Y 29'44	0°12'11	direct	-9594 Mar 03 j 17:40	13° Y ′06'36			
behind sun begin	-9600 Jun 04 j 12:14	2° Y ′29′20		evening set	-9594 Jun 02 j 16:32	15° Y 03'11			
behind sun end	-9600 Jun 04 j 20:57	2° Y '30'07		max. Earth dist.	-9594 Jun 17 j 06:51	15° Ƴ 35'41	31.24307 AU		
max. Earth dist.	-9600 Jun 03 j 15:11	2° Y ′27'22	31.19585 AU						
morning rise	-9600 Jun 20 j 08:46	3° Ƴ 04'36		conjunction	-9594 Jun 18 j 09:17	15° Ƴ 38'09	0°23'42		
retrograde	-9600 Sep 14 j 12:15	4° Y ′56′20		minimum elong	-9594 Jun 18 j 09:17	15° Ƴ 38′09	0°23'47		
opposition	-9600 Nov 30 j 20:34	3° Y '34'31	-0°09'49	morning rise	-9594 Jul 03 j 22:16	16° Ƴ 12'47			
min. Earth dist.	-9600 Dec 01 j 21:06		29.20171 AU	retrograde	-9594 Sep 28 j 01:46	18° Y ′04'30			
direct	-9599 Feb 20 j 01:18	2° Y '09'13		opposition	-9594 Dec 14 j 17:52	16° Ƴ 42'47	0°28'22		
evening set	-9599 May 22 j 07:46	4° Υ ′06'04		min. Earth dist.	-9594 Dec 15 j 18:01	16° Ƴ 41'07	29.24576 AU		
max. Earth dist.	-9599 Jun 06 j 01:32		31.20675 AU	direct	-9593 Mar 06 j 04:52	15° Ƴ 17'41			
				evening set	-9593 Jun 05 j 03:26	17° Y °14'12			
conjunction	-9599 Jun 07 j 03:32	4° Ƴ 41'14	-0°06'11	<i>G</i>	,	• • •			
minimum elong	-9599 Jun 07 j 03:31	4° Υ 41'14		conjunction	-9593 Jun 20 j 19:43	17° Ƴ 49'08	0°29'34		
behind sun begin	-9599 Jun 06 j 21:23	4° Υ 40'41	3 00 12	minimum elong	-9593 Jun 20 j 19:43	17° Υ 49'08	0°29'41		
behind sun end	-9599 Jun 07 j 09:40	4° Υ 41'47		max. Earth dist.	-9593 Jun 19 j 18:44		31.24760 AU		
morning rise	-9599 Jun 22 j 19:16	5° Υ 16'04		morning rise	-9593 Jul 19 j 18:44 -9593 Jul 06 j 07:58	18° Υ 23'43	31.24/00 AU		
•	-9599 Sep 17 j 00:15	7° Υ 07'48		retrograde	-9593 Sep 30 j 10:03	18 1 25 45 20° Υ 15'27			
retrograde opposition	-9599 Sep 17 J 00:15 -9599 Dec 03 j 07:58	5° Υ 46'03	0.03125	opposition	-9593 Sep 30 j 10:03 -9593 Dec 17 j 05:24	20° γ 13′27 18° γ 53'41	0°34'37		
min. Earth dist.	-9599 Dec 03 j 07:38 -9599 Dec 04 j 07:40		29.21212 AU	min. Earth dist.	-9593 Dec 17 J 05:24 -9593 Dec 18 J 05:58		29.25027 AU		
	-	5° γ 44°25 4° Υ 20'48	47.41414 AU	direct	-	18° γ 32'00 17° γ ′28'37	27.23021 AU		
direct	-9598 Feb 22 j 15:06	4°γ'20'48 6° Υ 17'38			-9592 Mar 07 j 16:35	1/°° Y ′28′3/			
evening set	-9598 May 24 j 19:20	U 11/38		evening set max. Earth dist.	-9592 Jun 06 j 14:23 -9592 Jun 21 j 04:21		31.25228 AU		
				max. Darui uist.	7572 Jun 21 J 04.21	17 3/34	J1.23220 AU		

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9592 in astronomical counting style is the year 9593 BCE in historical counting style. 19°**Υ**'59'56 0°35'23 opposition -9592 Jun 22 i 05:51 -9585 Jan 01 i 16:13 4°808'45 1°16'26 conjunction minimum elong -9592 Jun 22 j 05:51 19°**Y**59′56 0°35'30 min. Earth dist. -9585 Jan 02 j 13:05 4°807'20 29.29643 AU -9592 Jul 07 j 17:41 20°**Y**34'29 -9585 Mar 24 j 06:03 2°844'09 direct morning rise -9585 Jun 22 j 15:59 -9592 Oct 01 j 20:58 22°Y26'13 4°840'18 retrograde evening set 21°**Y**′04′27 -9592 Dec 18 j 17:00 0°40'49 -9585 Jul 07 j 04:56 opposition max. Earth dist. 5°**8**12'46 31.29841 AU -9592 Dec 19 j 16:07 21°Υ02'52 29.25526 AU min. Earth dist. 19°**Ƴ**39'24 -9585 Jul 08 j 02:48 direct -9591 Mar 10 j 03:18 conjunction 5°**8**14'50 1°14'13 -9591 Jun 09 j 00:59 21°**Y**35'47 -9585 Jul 08 j 02:47 evening set minimum elong 5°**8**14'50 1°14'30 -9585 Jul 23 j 10:32 5°**8**49'06 morning rise 7°841'19 conjunction -9591 Jun 24 j 15:55 22°**Y**10'36 0°41'09 retrograde -9585 Oct 17 j 21:51 minimum elong -9591 Jun 24 j 15:55 22°**Y**10'36 0°41'18 opposition -9584 Jan 04 j 04:07 6°**8**19'35 1°22'02 -9591 Jun 23 j 15:48 22°**Υ**08'21 31.25753 AU -9584 Jan 05 j 00:22 max. Earth dist. min. Earth dist. 6°**8**18'13 29.30152 AU -9591 Jul 10 j 02:59 22° Y 45'07 -9584 Mar 25 j 17:07 morning rise direct 4°**8**55'02 retrograde -9591 Oct 04 j 06:43 24°\bar{Y}36'54 evening set -9584 Jun 24 j 02:19 6°851'06 opposition -9591 Dec 21 j 04:51 23°**Y**15'06 0°46'57 min. Earth dist. -9591 Dec 22 j 04:21 23°Υ13'30 29.26104 AU conjunction -9584 Jul 09 j 12:37 7°**8**25'36 1°19'24 direct -9590 Mar 12 j 15:35 21°Y50'06 minimum elong -9584 Jul 09 j 12:36 7°**8**25'36 1°19'41 evening set -9590 Jun 11 j 11:40 23°Y46'26 max. Earth dist. -9584 Jul 08 j 16:07 7°**と**23'41 31.30267 AU max. Earth dist. -9590 Jun 26 j 01:57 24°Υ18'58 31.26385 AU morning rise -9584 Jul 24 j 19:35 7°859'50 retrograde -9584 Oct 19 j 06:21 9°852'07 conjunction -9590 Jun 27 j 01:51 24°**Y**21'13 0°46'51 opposition -9583 Jan 05 j 16:24 8°830'22 1°27'30 minimum elong -9590 Jun 27 i 01:51 24°**Y**21'13 0°47'01 min. Earth dist. -9583 Jan 06 i 13:03 8°828'58 29.30511 AU -9590 Jul 12 j 12:27 24°Y55'41 direct -9583 Mar 28 i 05:12 7°**8**05'51 morning rise retrograde -9590 Oct 06 i 18:28 26°**Y**47'31 evening set -9583 Jun 26 j 12:36 9°801'50 -9590 Dec 23 j 16:27 25°Y25'43 0°53'01 opposition -9590 Dec 24 j 14:22 25°Υ24'14 29.26781 AU -9583 Jul 11 j 22:04 9°**8**36'16 1°24'28 min. Earth dist. conjunction -9589 Mar 15 j 04:20 24°\00'48 -9583 Jul 11 j 22:04 9°**8**36'16 1°24'47 direct minimum elong -9589 Jun 13 j 22:09 25°Y57'06 -9583 Jul 11 j 01:04 9°**8**34'18 31.30558 AU max. Earth dist. evening set morning rise -9583 Jul 27 j 04:40 10°810'28 26°**Υ**31'49 0°52'30 -9589 Jun 29 j 11:45 -9583 Oct 21 j 17:22 12°**8**02'49 conjunction retrograde -9589 Jun 29 j 11:44 26° Y 31'49 0° 52'42 opposition -9582 Jan 08 j 04:35 10°841'01 1°32'52 minimum elong -9589 Jun 28 j 12:35 26°Υ29'39 31.27094 AU -9582 Jan 08 j 23:49 10°839'43 29.30746 AU max. Earth dist. min. Earth dist. -9589 Jul 14 j 21:44 27°**Y**06′15 -9582 Mar 30 j 16:27 9°**8**16'31 morning rise direct -9589 Oct 09 j 05:00 28°**Y**58′10 -9582 Jun 28 j 22:40 11°**8**12'25 retrograde evening set -9589 Dec 26 j 04:16 27°**Υ**36'23 0°59'00 -9582 Jul 13 j 11:45 11°**8**44'56 31.30727 AU opposition max. Earth dist. -9589 Dec 27 j 02:32 27°**Y**34'52 29.27528 AU min. Earth dist. 26°**Y**11'32 -9588 Mar 16 j 15:12 -9582 Jul 14 j 07:38 11°**8**46'48 1°29'25 direct conjunction evening set -9588 Jun 15 j 08:38 28°**Y**07'49 minimum elong -9582 Jul 14 j 07:38 11°**8**46'48 1°29'44 morning rise -9582 Jul 29 j 13:33 12°**8**20'57 28°**Y**42'29 0°58'04 conjunction -9588 Jun 30 j 21:34 retrograde -9582 Oct 24 j 02:44 14°**8**13'22 -9588 Jun 30 j 21:34 28°**Y**'42'29 0°58'17 opposition -9581 Jan 10 j 16:45 12°**8**51'30 1°38'04 minimum elong -9588 Jun 29 j 23:19 28°**Υ**'40'24 31.27855 AU min. Earth dist. -9581 Jan 11 j 12:36 12°**8**50'09 29.30882 AU max. Earth dist. -9588 Jul 16 j 06:57 29°Y16'52 -9581 Apr 02 j 04:06 11°**8**27'01 morning rise direct -9588 Aug 06 j 01:24 0° 8 -9581 Jul 01 j 08:39 13°**8**22'49 evening set -9588 Oct 10 j 15:05 1°808'51 retrograde -9581 Jul 16 i 16:56 -9588 Dec 19 i 17:59 30°R℃ conjunction 13°**8**57'09 1°34'13 -9581 Jul 16 i 16:55 opposition -9588 Dec 27 i 16:04 29°Y47'07 1°04'54 minimum elong 13°**8**57'09 1°34'35 29°**Υ**45'40 29.28283 AU -9581 Jul 15 i 21:19 min. Earth dist. -9588 Dec 28 i 13:15 max. Earth dist. 13°**8**55'18 31.30832 AU 28°**Y**22'21 direct -9587 Mar 19 i 04:56 morning rise -9581 Jul 31 i 22:26 14°**8**31'16 -9587 Jun 09 i 03:40 0°8 -9581 Aug 14 j 09:54 15°8 -9587 Jun 17 j 19:11 0°818'36 -9581 Oct 26 j 13:45 16°**8**23'44 evening set retrograde max. Earth dist. -9587 Jul 02 j 08:55 0°**႘**51'07 31.28596 AU -9580 Jan 13 j 04:53 15°**8**01'48 1°43'09 opposition min. Earth dist. -9580 Jan 13 j 23:06 15°**8**00'34 29.30966 AU -9580 Jan 14 j 07:29 conjunction -9587 Jul 03 j 07:21 0°853'13 1°03'32 15°R₩ 13°**8**37'19 -9587 Jul 03 j 07:21 0°**8**53'13 1°03'47 direct -9580 Apr 03 j 16:16 minimum elong -9587 Jul 18 j 16:13 1°**8**27'34 -9580 Jun 17 j 03:15 15°8 morning rise 15°**8**33'02 -9587 Oct 13 j 02:47 3°819'38 evening set -9580 Jul 02 j 18:28 retrograde -9587 Dec 30 j 04:07 1°**8**57'55 1°10'43 -9580 Jul 17 j 07:18 16°**8**05'33 31.30900 AU opposition max. Earth dist. -9587 Dec 31 j 01:11 1°**8**56'29 29.29015 AU min. Earth dist. -9586 Mar 21 j 16:46 0°**8**33'14 -9580 Jul 18 j 02:06 16°**8**07'19 1°38'54 direct conjunction -9586 Jun 20 j 05:27 2°**8**29'26 -9580 Jul 18 j 02:05 16°**8**07'19 1°39'16 evening set minimum elong 16°**8**41'24 morning rise -9580 Aug 02 j 07:02 conjunction -9586 Jul 05 j 17:05 3°**8**04'01 1°08'56 retrograde -9580 Oct 28 j 00:13 18°**8**33'56 minimum elong -9586 Jul 05 j 17:05 3°**8**04'01 1°09'11 opposition -9579 Jan 14 j 17:11 17°**8**11'56 1°48'04 min. Earth dist. max. Earth dist. -9586 Jul 04 j 19:58 3°**8**02'02 31.29278 AU -9579 Jan 15 j 11:27 17°**8**10'42 29.31065 AU -9586 Jul 21 j 01:15 3°838'20 -9579 Apr 06 j 02:57 15°847'29 morning rise direct -9586 Oct 15 j 11:46 5°**8**30'28 -9579 Jul 05 j 04:13 17°**8**43'07 retrograde evening set

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9579 in astronomical counting style is the year 9580 BCE in historical counting style. -9579 Jul 20 j 11:15 18°**8**17'21 1°43'26 retrograde -9573 Nov 13 i 00:56 3°**Ⅱ**45'43 conjunction -9579 Jul 20 j 11:14 18°**8**17'21 1°43'49 -9572 Jan 31 j 08:08 2°II23'38 2°17'49 minimum elong opposition -9579 Jul 19 j 17:53 18°**8**15'43 31.31023 AU min. Earth dist. -9572 Jan 31 j 20:29 2°**I**I22'48 29.33272 AU max. Earth dist. -9579 Aug 04 j 15:38 -9572 Apr 21 j 12:56 0°**I**I59'46 18°**8**51'23 morning rise direct -9579 Oct 30 j 10:24 20°844'00 -9572 Jul 19 j 23:07 2°II55'02 retrograde evening set -9578 Jan 17 j 05:28 19°**8**21'57 opposition 1°52'50 3°II29'01 2°10'41 min. Earth dist. -9578 Jan 17 j 22:03 19°**8**20'50 29.31228 AU conjunction -9572 Aug 04 j 02:10 2°11'10 direct -9578 Apr 08 j 16:40 17°**8**57'33 minimum elong -9572 Aug 04 j 02:09 3°**Ⅲ**29'01 -9578 Jul 07 j 13:51 evening set 19°**8**53'06 max. Earth dist. -9572 Aug 03 j 14:27 3°**Д**27'55 31.33182 AU morning rise -9572 Aug 19 j 03:31 4°**I**I02'52 conjunction -9578 Jul 22 j 20:11 20°**8**27'18 1°47'49 retrograde -9572 Nov 14 j 12:31 5°**I**I56'27 -9578 Jul 22 j 20:10 20°**8**27'18 -9571 Feb 01 j 20:50 minimum elong 1°48'12 opposition 4°**I**I34'21 2°21'20 -9578 Jul 22 j 03:04 20°**8**25'41 31.31226 AU -9571 Feb 02 j 07:33 max. Earth dist. min. Earth dist. 4°**Д**33'38 29.33377 AU morning rise -9578 Aug 07 j 00:11 21°801'18 direct -9571 Apr 24 j 00:03 3°**Ⅱ**10'32 retrograde -9578 Nov 01 j 22:10 22°**8**54'02 evening set -9571 Jul 22 j 08:41 5°**Ⅲ**05'45 opposition -9577 Jan 19 j 17:45 21°**8**31'57 1°57'26 min. Earth dist. -9577 Jan 20 j 09:34 21°830'53 29.31498 AU conjunction -9571 Aug 06 j 11:14 5°**Ⅲ**39'42 2°13'53 direct -9577 Apr 11 j 04:06 20°**8**07'36 minimum elong -9571 Aug 06 j 11:13 5°**Ⅲ**39'42 2°14'23 evening set -9577 Jul 09 j 23:24 22°803'06 max. Earth dist. -9571 Aug 05 j 23:54 5°**Д**38'38 31.33203 AU morning rise -9571 Aug 21 j 12:15 6°**Ⅲ**13'32 conjunction -9577 Jul 25 j 05:18 22°**8**37'15 1°52'02 retrograde -9571 Nov 16 j 23:56 8°**Ⅲ**07'15 minimum elong -9577 Jul 25 i 05:17 22°**8**37'15 1°52'27 opposition -9570 Feb 04 i 09:41 6°II45'06 2°24'39 max. Earth dist. -9577 Jul 24 i 14:05 22°835'49 31.31534 AU min. Earth dist. -9570 Feb 04 i 20:41 6°**Д**44'21 29.33342 AU morning rise -9577 Aug 09 i 08:40 23°**8**11'13 direct -9570 Apr 26 i 09:57 5°**Ⅱ**21'20 retrograde -9577 Nov 04 j 07:18 25°804'04 evening set -9570 Jul 24 j 18:02 7°**Ⅱ**16'27 opposition -9576 Jan 22 j 05:58 23°**8**41'59 2°01'52 -9576 Jan 22 j 20:56 23°840'59 29.31844 AU -9570 Aug 08 j 20:13 7°II50'22 2°16'53 min. Earth dist. conjunction 22°817'44 -9570 Aug 08 j 20:13 7°II50'22 2°17'23 direct -9576 Apr 12 j 16:50 minimum elong -9576 Jul 11 j 09:05 -9570 Aug 08 j 10:08 7°**Ц**49'25 31.33092 AU 24°**8**13'12 max. Earth dist. evening set -9570 Aug 23 j 20:52 8°**Ⅲ**24'11 morning rise -9576 Jul 26 j 14:13 24°**8**47'19 1°56'06 -9570 Nov 19 j 10:58 10°**Ⅱ**18′00 conjunction retrograde -9576 Jul 26 j 14:12 8°**II**55'47 2°27'45 opposition -9569 Feb 06 j 22:24 24°**8**47'18 1°56'32 minimum elong -9576 Jul 25 j 22:59 -9569 Feb 07 j 08:04 8°**Д**55'08 29.33158 AU max. Earth dist. 24°**8**45'52 31.31916 AU min. Earth dist. -9576 Aug 10 j 17:18 25°**8**21'15 -9569 Apr 28 j 23:46 7°**Ⅲ**32′02 morning rise direct -9576 Nov 05 j 18:07 27°**8**14'14 -9569 Jul 27 j 03:27 9°**Ⅲ**27'04 retrograde evening set -9575 Jan 23 j 18:23 25°**8**52'10 2°06'08 opposition -9575 Jan 24 j 08:00 25°**8**51'15 29.32259 AU -9569 Aug 11 j 05:05 10°**I**00'57 2°19'41 min. Earth dist. conjunction direct -9575 Apr 15 j 03:39 24°828'00 minimum elong -9569 Aug 11 j 05:04 10°**耳**00'57 2°20'13 -9575 Jul 13 j 18:27 26°**8**23'25 max. Earth dist. -9569 Aug 10 j 18:47 9°**Д**59'59 31.32846 AU evening set morning rise -9569 Aug 26 j 05:34 10°**Ⅲ**34'45 conjunction -9575 Jul 28 j 23:11 26°857'31 2°00'01 retrograde -9569 Nov 21 j 23:43 12°**Ⅱ**28'40 -9575 Jul 28 j 23:10 26°857'31 2°00'28 -9568 Feb 09 j 11:04 11°**II**06'21 2°30'39 minimum elong opposition -9575 Jul 28 j 09:56 26°**8**56'16 31.32326 AU min. Earth dist. -9568 Feb 09 j 20:15 11°**Д**05'44 29.32881 AU max. Earth dist. -9575 Aug 13 j 01:39 27°**8**31'26 -9568 Apr 30 j 11:07 9°**Ⅱ**42'38 morning rise direct -9575 Nov 08 j 03:17 29°**8**24'34 -9568 Jul 28 j 12:37 11°**Ⅲ**37'34 retrograde evening set 28°802'30 2°10'13 opposition -9574 Jan 26 i 07:01 -9574 Jan 26 i 20:34 28°801'35 29.32666 AU min. Earth dist. conjunction -9568 Aug 12 j 14:00 12°**I**11'25 2°22'18 direct -9574 Apr 17 i 15:23 26°**8**38'27 minimum elong -9568 Aug 12 j 14:00 12°**I**11'25 2°22'49 evening set -9574 Jul 16 j 04:05 28°833'50 max. Earth dist. -9568 Aug 12 i 05:38 12°**Ⅱ**10'38 31.32532 AU morning rise -9568 Aug 27 j 14:04 12°**Ⅱ**45'11 -9574 Jul 31 j 08:07 29°**8**07'53 2°03'45 -9568 Nov 23 i 08:58 14°**Ⅲ**39'12 conjunction retrograde -9574 Jul 31 i 08:06 29°**8**07'53 2°04'12 -9567 Feb 10 j 23:54 13°**Ⅱ**16'49 2°33'20 minimum elong opposition max. Earth dist. -9574 Jul 30 j 18:50 29°**8**06'37 31.32712 AU min. Earth dist. -9567 Feb 11 j 08:11 13°**Д**16'15 29.32553 AU 29°**8**41'47 morning rise -9574 Aug 15 j 10:20 direct -9567 May 02 j 23:57 11°**I**I53′06 -9574 Aug 23 j 20:07 $0^{\circ}II$ evening set -9567 Jul 30 j 21:43 13°**Ⅱ**47'56 retrograde -9574 Nov 10 j 14:51 1°**I**I35′04 -9573 Jan 28 j 19:23 0°II13'00 2°14'07 opposition conjunction -9567 Aug 14 j 22:34 14°**I**I21'45 2°24'42 -9573 Jan 29 j 07:18 0°**Д**12'12 29.33026 AU -9567 Aug 14 j 22:33 14°**I**I21'45 2°25'14 min. Earth dist. minimum elong -9573 Feb 05 j 21:19 30°R₩ -9567 Aug 14 j 14:18 14°**Д**20'58 31.32206 AU max. Earth dist. 28°**8**49'03 -9567 Aug 29 j 22:35 14°**I**55'30 direct -9573 Apr 20 j 02:03 morning rise -9573 Jun 27 j 05:19 $0^{\circ}\Pi$ -9567 Nov 25 j 20:07 16°**Ⅱ**49'37 retrograde evening set -9573 Jul 18 j 13:35 0°**Ⅱ**44'23 opposition -9566 Feb 13 j 12:40 15°**Ⅲ**27'08 2°35'48 min. Earth dist. -9566 Feb 13 j 19:25 15°**Ⅲ**26'41 29.32256 AU conjunction -9573 Aug 02 j 17:12 1°**I**18'24 2°07'18 direct -9566 May 05 j 11:45 14°**Ⅲ**03′27 minimum elong -9573 Aug 02 j 17:11 1°**I**18'24 2°07'47 evening set -9566 Aug 02 j 06:44 15°**Ⅲ**58′10 -9573 Aug 02 j 05:01 1°**Д**17'15 31.33005 AU max. Earth dist. -9573 Aug 17 j 18:55 1°**I**52'16 -9566 Aug 17 j 07:24 16°**Д**31'58 2°26'54 morning rise conjunction

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 27 Attention, astronomical year style is used: The year -9566 in astronomical counting style is the year 9567 BCE in historical counting style.

Attention, astronomical year style is used: The year -9566 in astronomical counting style is the year 9567 BCE in historical counting style.								
minimum elong	-9566 Aug 17 j 07:24	16° Ⅲ 31'58	2°27'26		-9559 Mar 27 j 13:40	30° Ŗ Ⅱ		
max. Earth dist.	-9566 Aug 17 j 01:14	16° Ⅱ 31'23	31.31923 AU	direct	-9559 May 20 j 16:50	29° Ⅱ 17'22		
morning rise	-9566 Sep 01 j 07:04	17° Ⅱ 05'43			-9559 Jul 11 j 05:19	0ංම		
retrograde	-9566 Nov 28 j 05:31	18° Ⅱ 59'57		evening set	-9559 Aug 16 j 21:45	1°9511'37		
opposition	-9565 Feb 16 j 01:21	17° Ⅱ 37'24						
min. Earth dist.	-9565 Feb 16 j 07:42	17° Ⅱ 36'58	29.32016 AU	conjunction	-9559 Aug 31 j 20:55	1° 95 45'20	2°36'18	
direct	-9565 May 08 j 00:17	16° Ⅱ 13'45		minimum elong	-9559 Aug 31 j 20:55	1° 5 45'20	2°36'52	
evening set	-9565 Aug 04 j 15:50	18° Ⅱ 08'23		max. Earth dist.	-9559 Aug 31 j 21:30		31.30695 AU	
				morning rise	-9559 Sep 15 j 20:05	2° © 19'05		
conjunction	-9565 Aug 19 j 16:04	18° Ⅱ 42'09	2°28'54	retrograde	-9559 Dec 13 j 13:51	4° © 14'22		
minimum elong	-9565 Aug 19 j 16:03	18° Ⅱ 42'09		opposition	-9558 Mar 03 j 20:07	2° 9 51'33	2°47'16	
max. Earth dist.	-9565 Aug 19 j 10:18	18° Ⅱ 41'37	31.31727 AU	min. Earth dist.	-9558 Mar 03 j 19:31	2° 9 51'35	29.30671 AU	
morning rise	-9565 Sep 03 j 15:41	19° Ⅱ 15'53		direct	-9558 May 23 j 05:09	1° 5 28'23		
retrograde	-9565 Nov 30 j 16:55	21° Ⅱ 10′15		evening set	-9558 Aug 19 j 06:57	3°522'32		
opposition	-9564 Feb 18 j 14:04	19° Ⅱ 47'39						
min. Earth dist.	-9564 Feb 18 j 18:11		29.31861 AU	conjunction	-9558 Sep 03 j 05:55	3° 9 56'15		
direct	-9564 May 09 j 11:25	18° Ⅲ 24′03		minimum elong	-9558 Sep 03 j 05:55	3° 9 56'15	2°37'19	
evening set	-9564 Aug 06 j 00:42	20° Ⅱ 18'36		max. Earth dist.	-9558 Sep 03 j 06:09	3° 9 56'17	31.30165 AU	
				morning rise	-9558 Sep 18 j 05:19	4°930'01		
conjunction	-9564 Aug 21 j 00:42	20° Ⅱ 52'22		retrograde	-9558 Dec 16 j 02:24	6°925'26		
minimum elong	-9564 Aug 21 j 00:42	20° Ⅱ 52'22		opposition	-9557 Mar 06 j 09:02	5° © 02'32		
max. Earth dist.	-9564 Aug 20 j 20:28		31.31596 AU	min. Earth dist.	-9557 Mar 06 j 07:23		29.30068 AU	
morning rise	-9564 Sep 05 j 00:07	21° Ⅱ 26′06		direct	-9557 May 25 j 16:47	3° © 39'23		
retrograde	-9564 Dec 02 j 02:36	23° Ⅱ 20'37		evening set	-9557 Aug 21 j 15:56	5° © 33'28		
opposition	-9563 Feb 20 j 03:04	21° Ⅱ 57'58	2°41'51					
min. Earth dist.	-9563 Feb 20 j 07:02		29.31767 AU	conjunction	-9557 Sep 05 j 15:00	6° ୭ 07'11	2°36'59	
direct	-9563 May 11 j 22:03	20° Ⅱ 34'27		minimum elong	-9557 Sep 05 j 14:59	6° ୭ 07'11	2°37'35	
evening set	-9563 Aug 08 j 09:41	22° Ⅱ 28'56		max. Earth dist.	-9557 Sep 05 j 16:47	6° 5 07'21	31.29482 AU	
				morning rise	-9557 Sep 20 j 14:23	6°9540'58		
conjunction	-9563 Aug 23 j 09:27	23° II 02'41	2°32'14	retrograde	-9557 Dec 18 j 12:59	8° 5 36'29		
minimum elong	-9563 Aug 23 j 09:27	23° II 02'40	2°32'49	opposition	-9556 Mar 07 j 22:11	7° © 13'31	2°47'47	
max. Earth dist.	-9563 Aug 23 j 06:21	23° Ⅱ 02'23	31.31527 AU	min. Earth dist.	-9556 Mar 07 j 20:31	7° © 13'37	29.29321 AU	
morning rise	-9563 Sep 07 j 08:46	23° Ⅱ 36′24		direct	-9556 May 27 j 05:34	5° © 50'23		
retrograde	-9563 Dec 04 j 13:59	25° Ⅱ 31′04		evening set	-9556 Aug 23 j 00:48	7° 5 44'21		
opposition	-9562 Feb 22 j 15:52	24° Ⅱ 08'24	2°43'24					
min. Earth dist.	-9562 Feb 22 j 17:49	24° Ⅱ 08'16	29.31701 AU	conjunction	-9556 Sep 06 j 23:47	8°918'04	2°37'00	
direct	-9562 May 14 j 08:41	22° Ⅱ 44'58		minimum elong	-9556 Sep 06 j 23:47	8°918'04	2°37'35	
evening set	-9562 Aug 10 j 18:39	24° ∏ 39′23		max. Earth dist.	-9556 Sep 07 j 01:54	8°9518'16	31.28698 AU	
				morning rise	-9556 Sep 21 j 23:24	8° 9 51'52		
conjunction	-9562 Aug 25 j 18:10	25° Ⅱ 13'07	2°33'35	retrograde	-9556 Dec 20 j 00:43	10° 5 47'30		
minimum elong	-9562 Aug 25 j 18:10	25° Ⅱ 13'07	2°34'09	opposition	-9555 Mar 10 j 11:14	9° 5 24'25	2°47'41	
max. Earth dist.	-9562 Aug 25 j 15:41	25° Ⅱ 12'53	31.31445 AU	min. Earth dist.	-9555 Mar 10 j 07:38	9° 5 24'40	29.28501 AU	
morning rise	-9562 Sep 09 j 17:30	25° Ⅱ 46'51		direct	-9555 May 29 j 17:13	8°901'18		
retrograde	-9562 Dec 07 j 02:00	27° Ⅱ 41'41		evening set	-9555 Aug 25 j 09:41	9° © 55'09		
opposition	-9561 Feb 25 j 04:53	26° Ⅱ 18'59	2°44'43					
min. Earth dist.	-9561 Feb 25 j 06:52	26° Ⅱ 18'51	29.31608 AU	conjunction	-9555 Sep 09 j 08:43	10° © 28'53	2°36'48	
direct	-9561 May 16 j 18:07	24° Ⅱ 55'38		minimum elong	-9555 Sep 09 j 08:43	10° © 28'53	2°37'23	
evening set	-9561 Aug 13 j 03:38	26° Ⅱ 50′00		max. Earth dist.	-9555 Sep 09 j 12:01	10° 5 29'11	31.27854 AU	
				morning rise	-9555 Sep 24 j 08:30	11° © 02'42		
conjunction	-9561 Aug 28 j 03:03	27° Ⅲ 23'43	2°34'43	retrograde	-9555 Dec 22 j 10:16	12° 9 58'27		
minimum elong	-9561 Aug 28 j 03:03	27° Ⅲ 23'43	2°35'17	opposition	-9554 Mar 13 j 00:16	11° © 35'16	2°47'20	
max. Earth dist.	-9561 Aug 28 j 02:08	27° Ⅲ 23'38	31.31312 AU	min. Earth dist.	-9554 Mar 12 j 20:40	11°535'30	29.27666 AU	
morning rise	-9561 Sep 12 j 02:12	27° II 57'27		direct	-9554 Jun 01 j 04:11	10°5512'09		
retrograde	-9561 Dec 09 j 13:36	29° II 52'27		evening set	-9554 Aug 27 j 18:28	12° © 05'53		
opposition	-9560 Feb 27 j 17:47	28° Ⅱ 29'43	2°45'49	•				
min. Earth dist.	-9560 Feb 27 j 18:20	28° Ⅲ 29'41	29.31422 AU	conjunction	-9554 Sep 11 j 17:37	12° © 39'37	2°36'22	
direct	-9560 May 18 j 06:37	27° I 106'27		minimum elong	-9554 Sep 11 j 17:38	12° © 39'37	2°36'56	
evening set	-9560 Aug 14 j 12:48	29° Ⅱ 00'45		max. Earth dist.	-9554 Sep 11 j 22:14		31.27039 AU	
-	÷ v			morning rise	-9554 Sep 26 j 17:36	13°9513'27		
conjunction	-9560 Aug 29 j 11:55	29° Ⅲ 34'28	2°35'37	retrograde	-9554 Dec 24 j 21:16	15° © 09'19		
minimum elong	-9560 Aug 29 j 11:55	29° Ⅱ 34'28	2°36'11	opposition	-9553 Mar 15 j 13:08	13° © 46'03	2°46'46	
max. Earth dist.	-9560 Aug 29 j 10:46		31.31070 AU	min. Earth dist.	-9553 Mar 15 j 07:21		29.26872 AU	
	-9560 Sep 09 j 18:44	0ංම		direct	-9553 Jun 03 j 15:07	12° © 22'56		
morning rise	-9560 Sep 13 j 11:12	0°908'13		evening set	-9553 Aug 30 j 03:18	14° © 16'36		
retrograde	-9560 Dec 11 j 03:22	2°503'21		<i>3</i>				
opposition	-9559 Mar 01 j 06:57	0°9540'35	2°46'39	conjunction	-9553 Sep 14 j 02:26	14°950'20	2°35'43	
min. Earth dist.	-9559 Mar 01 j 06:59		29.31128 AU	minimum elong	-9553 Sep 14 j 02:26	14°950'20	2°36'17	
	J		_	3	1 3			

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9553 in astronomical counting style is the year 9554 BCE in historical counting style. -9553 Sep 14 i 07:42 14°950'50 31.26277 AU direct -9546 Jun 18 i 19:06 27°5541'16 max. Earth dist. -9553 Sep 29 j 02:43 -9546 Sep 13 j 17:43 29°934'26 15°924'12 morning rise evening set -9553 Dec 27 j 09:05 -9546 Sep 25 j 02:38 17°920'12 $0^{\circ}\Omega$ retrograde -9552 Mar 17 j 02:07 15°956'50 2°45'56 opposition -9546 Sep 28 j 18:38 0°Ω08'20 2°24'53 min. Earth dist. -9552 Mar 16 j 20:01 15°557'15 29.26162 AU conjunction $0^{\circ}\Omega 08'20 \quad 2^{\circ}25'24$ 14°933'46 -9546 Sep 28 j 18:38 direct -9552 Jun 05 j 00:30 minimum elong -9546 Sep 29 j 06:31 evening set -9552 Aug 31 j 12:01 16°9527'20 max. Earth dist. 0°**Ω**09'28 31.21995 AU -9546 Oct 13 j 21:34 morning rise 0°**Ω**42'27 conjunction -9552 Sep 15 j 11:26 17°**©**01'06 2°34'50 retrograde -9545 Jan 11 j 22:59 2°**Ω**39'21 minimum elong -9552 Sep 15 j 11:27 17°**5**01'06 2°35'24 opposition -9545 Apr 02 j 21:06 1°**Ω**15'37 2°33'33 max. Earth dist. -9552 Sep 15 j 18:44 17°501'47 31.25619 AU min. Earth dist. -9545 Apr 02 j 09:01 1°**Ω**16'26 29.21758 AU -9545 May 31 j 08:38 morning rise -9552 Sep 30 j 11:52 17°534'59 30°Rூ 29°952'52 retrograde -9552 Dec 28 j 20:44 19°931'07 direct -9545 Jun 21 j 06:30 opposition -9551 Mar 19 j 15:03 18°**©**07'42 2°44'53 -9545 Jul 11 j 17:56 $0^{\circ}\Omega$ min. Earth dist. -9551 Mar 19 j 07:03 18°508'14 29.25540 AU evening set -9545 Sep 16 j 02:46 1° **Ω**45'56 direct -9551 Jun 07 j 12:14 16°5544'40 evening set -9551 Sep 02 j 20:50 18°938'10 conjunction -9545 Oct 01 j 04:07 2°Ω19'52 2°22'28 minimum elong -9545 Oct 01 j 04:08 2°**Ω**19′52 2°23'00 conjunction -9551 Sep 17 j 20:18 19°**9**511'57 2°33'43 max. Earth dist. -9545 Oct 01 j 16:59 2°**Ω**21'05 31.21092 AU minimum elong -9551 Sep 17 j 20:18 19°9511'57 2°34'18 morning rise -9545 Oct 16 j 07:28 2°**Q**54'01 max. Earth dist. -9551 Sep 18 j 03:42 19°9512'39 31.25043 AU retrograde -9544 Jan 14 j 10:44 4°Ω51'01 morning rise -9551 Oct 02 j 21:14 19°9545'52 opposition -9544 Apr 04 i 10:03 3°Ω27'12 2°30'52 retrograde -9551 Dec 31 i 10:42 21°5542'08 min. Earth dist. -9544 Apr 03 i 20:19 3°Ω28'08 29.20781 AU opposition -9550 Mar 22 j 04:03 20°518'41 2°43'35 direct -9544 Jun 22 j 18:21 2°Ω04'26 min. Earth dist. -9550 Mar 21 j 19:14 20°519'16 29.24995 AU evening set -9544 Sep 17 j 11:58 3°**Ω**57'23 -9550 Jun 09 j 21:08 18°955'42 direct -9550 Sep 05 j 05:37 20°549'09 -9544 Oct 02 j 13:36 4°**Ω**31'22 2°19'51 conjunction evening set -9544 Oct 02 j 13:37 4°Ω31'22 2°20'22 minimum elong -9550 Sep 20 j 05:27 -9544 Oct 03 j 02:31 4°**Ω**32'35 31.20072 AU conjunction 21°922'57 2°32'24 max. Earth dist. -9550 Sep 20 j 05:28 -9544 Oct 17 j 17:37 5°**Ω**05'34 minimum elong 21°9522'57 2°32'57 morning rise -9543 Jan 15 j 22:33 7°**Ω**02'39 -9550 Sep 20 j 14:55 max. Earth dist. 21°523'50 31.24514 AU retrograde 5°**Ω**38'43 2°27'58 -9550 Oct 05 j 06:34 -9543 Apr 06 j 23:08 21°956'53 morning rise opposition -9549 Jan 02 j 21:34 min. Earth dist. 5°**Ω**39'38 29.19724 AU 23°953'18 -9543 Apr 06 j 09:38 retrograde -9543 Jun 25 j 04:12 -9549 Mar 24 j 16:51 22°529'48 2°42'02 4°Ω15'56 opposition direct -9549 Mar 24 j 07:11 -9543 Sep 19 j 20:56 6°**Ω**08'47 min. Earth dist. 22°530'27 29.24466 AU evening set direct -9549 Jun 12 j 08:31 21°906'54 -9543 Oct 04 j 23:11 6°**Ω**42'47 2°17'02 evening set -9549 Sep 07 j 14:36 23°900'16 conjunction minimum elong -9543 Oct 04 j 23:12 6°Ω42'47 2°17'33 conjunction -9549 Sep 22 j 14:32 23°934'06 2°30'50 max. Earth dist. -9543 Oct 05 j 13:50 6°**Ω**44'10 31.18998 AU -9549 Sep 22 j 14:32 23°934'06 2°31'24 morning rise -9543 Oct 20 j 03:38 7°Ω17'01 minimum elong max. Earth dist. -9549 Sep 23 j 00:00 23°534'59 31.23994 AU retrograde -9542 Jan 18 j 09:36 9°Ω14'11 -9549 Oct 07 j 16:10 24°9508'05 -9542 Apr 09 j 11:59 7°**Ω**50'09 2°24'51 morning rise opposition -9548 Jan 05 j 11:42 26°904'38 min. Earth dist. -9542 Apr 08 j 21:01 7° **Ω**51'10 29.18627 AU retrograde -9548 Mar 26 j 05:52 24°5941'05 2°40'16 -9542 Jun 27 j 15:58 6°**£**27′21 opposition direct -9548 Mar 25 j 18:59 24°5641'49 29.23928 AU 8°**Ω**20'06 min. Earth dist. evening set -9542 Sep 22 j 06:09 direct -9548 Jun 13 j 19:42 23°9518'14 -9542 Oct 07 i 08:41 8°Ω54'08 2°14'02 evening set -9548 Sep 08 i 23:26 25°511'33 conjunction minimum elong -9542 Oct 07 i 08:42 8°Ω54'08 2°14'30 conjunction -9548 Sep 23 i 23:44 25°5945'24 2°29'04 max. Earth dist. -9542 Oct 07 i 23:08 8°Ω55'30 31.17916 AU -9548 Sep 23 i 23:44 25°545'24 2°29'36 -9542 Oct 22 j 13:52 9°Ω28'25 minimum elong morning rise -9548 Sep 24 j 10:50 25°546'27 31.23423 AU -9541 Jan 20 j 22:52 11°Ω25'39 max. Earth dist. retrograde -9548 Oct 09 j 01:40 26°919'25 -9541 Apr 11 j 09:10 10° Ω02'34 29.17570 AU morning rise min. Earth dist. -9547 Jan 06 j 23:44 28°916'07 -9541 Apr 12 j 00:43 10°Ω01'31 2°21'32 retrograde opposition opposition -9547 Mar 28 j 19:03 26°\$52'31 2°38'15 direct -9541 Jun 30 j 00:50 8°**Ω**38'42 26°553'15 29.23316 AU min. Earth dist. -9547 Mar 28 j 08:08 evening set -9541 Sep 24 j 15:12 10°**Ω**31'22 -9547 Jun 16 j 07:52 25°529'43 direct -9547 Sep 11 j 08:34 27°9522'57 conjunction -9541 Oct 09 j 18:21 11°Ω05'27 2°10'50 evening set -9541 Oct 09 j 18:22 11°Ω05'27 2°11'18 minimum elong -9547 Sep 26 j 09:08 -9541 Oct 10 j 10:51 11°**Ω**07'00 31.16895 AU conjunction 27°956'50 2°27'05 max. Earth dist. -9541 Oct 24 j 23:58 11°**Ω**39'46 minimum elong -9547 Sep 26 j 09:08 27°**©**56'50 2°27'37 morning rise -9540 Jan 23 j 10:07 max. Earth dist. -9547 Sep 26 j 20:28 27°957'54 31.22774 AU retrograde 13°**Ω**37′06 morning rise -9547 Oct 11 j 11:34 28°930'54 opposition -9540 Apr 13 j 13:32 12°Ω12'53 2°18'00 -9547 Nov 28 j 21:40 0° Ω min. Earth dist. -9540 Apr 12 j 20:56 12°**Ω**14'00 29.16588 AU retrograde -9546 Jan 09 j 12:21 0°**Ω**27'42 direct -9540 Jul 01 j 12:12 10°**Ω**50′05 -9546 Feb 21 j 11:44 30°Rூ evening set -9540 Sep 26 j 00:18 12°**Ω**42'40 -9546 Mar 31 j 07:57 29°504'03 2°36'01 opposition -9546 Mar 30 j 19:28 -9540 Oct 11 j 03:50 13° Ω16'47 2°07'26 min. Earth dist. 29°504'53 29.22606 AU conjunction

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9540 in astronomical counting style is the year 9541 BCE in historical counting style. -9540 Oct 11 i 03:51 13°Ω16'47 2°07'53 min. Earth dist. -9533 Apr 29 j 09:12 27°Ω38'27 29.11298 AU minimum elong -9540 Oct 11 j 20:33 13°**Ω**18'22 31.15983 AU opposition -9533 Apr 30 j 06:36 27°**Ω**37'00 1°47'52 max. Earth dist. 26°**Ω**14'29 -9540 Oct 26 j 10:13 13°**Ω**51′10 -9533 Jul 17 j 16:26 direct morning rise -9540 Nov 30 j 04:47 -9533 Oct 11 j 19:04 28°**Ω**06'47 15°Ω evening set -9539 Jan 25 j 00:38 15°**Ω**48'36 retrograde -9539 Mar 24 j 11:54 -9533 Oct 27 j 02:41 28°Ω41'16 1°38'38 15°RΩ conjunction 28°**Ω**41'16 1°39'00 min. Earth dist. 14°**Ω**25'32 29.15727 AU -9533 Oct 27 j 02:41 -9539 Apr 15 j 08:22 minimum elong -9539 Apr 16 j 02:20 -9533 Oct 27 j 23:40 opposition 14°**Ω**24'19 2°14'17 max. Earth dist. 28° **Ω**43'15 31.10708 AU -9539 Jul 03 j 22:48 direct 13°**Ω**01'32 morning rise -9533 Nov 11 j 13:54 29°**Ω**16′04 evening set -9539 Sep 28 j 09:30 14°**£**54′04 -9533 Dec 02 j 13:46 0°m -9539 Oct 01 j 01:33 15°€ retrograde -9532 Feb 10 j 16:24 1°Mp14'14 -9532 Apr 25 j 12:09 30° R Ω -9539 Oct 13 j 13:39 15°**Ω**28'15 2°03'51 -9532 May 01 j 19:25 conjunction opposition 29°**Ω**49'42 1°42'51 minimum elong -9539 Oct 13 j 13:40 15°**Q**28'15 2°04'19 min. Earth dist. -9532 Apr 30 j 22:04 29°**Ω**51'10 29.10313 AU -9532 Jul 19 j 01:03 max. Earth dist. -9539 Oct 14 j 08:01 15°**Ω**29'59 31.15171 AU direct 28°**Ω**27'10 morning rise -9539 Oct 28 j 20:37 16°**Ω**02'41 -9532 Oct 04 j 05:40 0° m retrograde -9538 Jan 27 j 13:03 18°**Ω**00′13 evening set -9532 Oct 13 j 04:52 0° m 19'25 opposition -9538 Apr 18 j 15:01 16°**Ω**35'53 2°10'21 1°33'53 min. Earth dist. -9538 Apr 17 j 20:54 16°**Ω**37'07 29.14958 AU conjunction -9532 Oct 28 j 13:18 0° m 53'57 direct -9538 Jul 06 j 10:05 15°**Ω**13'10 minimum elong -9532 Oct 28 j 13:19 0° m 53'57 1°34'13 evening set -9538 Sep 30 j 18:46 17°**Ω**05'39 max. Earth dist. -9532 Oct 29 j 11:39 0° Mp 56'03 31.09665 AU morning rise -9532 Nov 13 j 01:08 1° m 28'48 conjunction -9538 Oct 15 i 23:29 17°Ω39'52 2°00'05 retrograde -9531 Feb 12 i 04:03 3° m 27'02minimum elong -9538 Oct 15 i 23:30 17°**Ω**39'52 2°00'31 min. Earth dist. -9531 May 03 j 10:29 2° m 03'54 29.09202 AU max. Earth dist. -9538 Oct 16 j 18:23 17°**Ω**41'40 31.14460 AU -9531 May 04 j 08:08 2°m 02'25 1°37'42 opposition -9538 Oct 31 j 07:08 18°Ω14'22 -9531 Jul 21 j 12:46 0° m 39'52 morning rise direct -9537 Jan 30 j 02:27 20°Ω12'01 -9531 Oct 15 j 14:58 2° m 32'02 retrograde evening set -9537 Apr 20 j 07:48 18°**Ω**49'01 29.14267 AU min. Earth dist. 18°**Ω**47'40 2°06'13 -9537 Apr 21 j 03:41 -9531 Oct 30 j 23:59 3° m 06'36 1°28'59 conjunction opposition -9537 Jul 08 j 20:54 17°**Ω**24'59 -9531 Oct 30 j 23:59 3° m 06'36 1°29'19 direct minimum elong -9531 Oct 31 j 21:51 -9537 Oct 03 j 04:05 3° m 08'40 31.08533 AU 19°**Ω**17'27 max. Earth dist. evening set 3°m/41'31 -9531 Nov 15 j 12:42 morning rise -9537 Oct 18 j 09:17 19°**Ω**51'43 1°56'08 5° m 39'47 -9530 Feb 14 j 18:29 conjunction retrograde 4° m 15'04 1°32'24 -9537 Oct 18 j 09:18 19°**Ω**51'43 1°56'34 -9530 May 06 j 20:34 minimum elong opposition -9537 Oct 19 j 04:56 19°**Ω**53'34 31.13787 AU -9530 May 05 j 22:20 4° Mp 16'35 29.08037 AU max. Earth dist. min. Earth dist. -9537 Nov 02 j 17:38 20°**Ω**26′17 -9530 Jul 23 j 23:19 2° My 52'28morning rise direct -9536 Feb 01 j 14:15 22°**Ω**24'03 -9530 Oct 18 j 01:00 4° m 44'34 retrograde evening set opposition -9536 Apr 22 j 16:33 20°Ω59'40 2°01'54 min. Earth dist. -9536 Apr 21 j 20:59 21°**Ω**01'00 29.13600 AU conjunction -9530 Nov 02 j 10:43 5° m 19'12 1°23'58 -9536 Jul 10 j 07:57 19°**Ω**37'04 minimum elong -9530 Nov 02 j 10:44 5° m 19'12 1°24'16 direct -9536 Oct 04 j 13:34 21°**Ω**29'29 max. Earth dist. -9530 Nov 03 j 09:41 5° TQ 21'22 31.07352 AU evening set -9530 Nov 18 j 00:07 5° m 54'10 morning rise -9536 Oct 19 j 19:27 22°Ω03'48 1°52'00 -9529 Feb 17 j 06:25 7° m 52'27 conjunction retrograde -9536 Oct 19 j 19:28 22°Ω03'48 1°52'24 -9529 May 08 j 11:07 6° 170 29'09 29.06856 AU minimum elong min. Earth dist. -9536 Oct 20 j 16:14 22° Ω05'46 31.13134 AU -9529 May 09 j 09:07 6° Mp 27'38 1°26'58 max. Earth dist. opposition -9536 Nov 04 i 04:24 22°**Ω**38'25 morning rise direct -9529 Jul 26 i 10:23 5° m 05'00 -9535 Feb 03 i 03:32 retrograde 24°**Ω**36'19 evening set -9529 Oct 20 j 10:57 6° m 57'02 min. Earth dist. -9535 Apr 24 i 08:07 23°Ω13'21 29.12919 AU opposition -9535 Apr 25 i 05:11 23°Ω11'55 1°57'24 conjunction -9529 Nov 04 i 21:20 7° mp 31'43 1°18'50 direct -9535 Jul 12 j 19:31 21°Ω49'21 minimum elong -9529 Nov 04 i 21:21 7° mb 31'43 1°19'07 -9535 Oct 06 j 23:17 23°**Ω**41'44 max. Earth dist. -9529 Nov 05 i 20:42 7° m 33'55 31.06208 AU evening set -9529 Nov 20 j 11:28 8° m 06'44 morning rise -9535 Oct 22 j 05:39 24°Ω16'07 1°47'42 -9528 Feb 19 j 20:17 10° m 05'04 conjunction retrograde minimum elong -9535 Oct 22 j 05:40 24°Ω16'07 1°48'06 opposition -9528 May 10 j 21:32 8° m 40'09 1°21'24 max. Earth dist. -9535 Oct 23 j 02:12 24°**Ω**18'04 31.12427 AU min. Earth dist. -9528 May 09 j 22:01 8° mp 41'46 29.05741 AU -9528 Jul 27 j 21:44 -9535 Nov 06 j 15:28 24°**Ω**50'48 direct 7° m 17'28 morning rise -9534 Feb 05 j 15:36 26°**Ω**48'48 evening set -9528 Oct 21 j 21:10 9° 1009'28 retrograde -9534 Apr 27 j 18:01 25°Ω24'23 1°52'43 opposition 25°**Ω**25'46 29.12170 AU -9528 Nov 06 j 08:09 9° m/44'11 1°13'34 min. Earth dist. -9534 Apr 26 j 21:33 conjunction -9534 Jul 15 j 05:04 direct 24°**Ω**01'51 minimum elong -9528 Nov 06 j 08:10 9° m/44'11 1°13'50 -9534 Oct 09 j 09:04 25°**Ω**54'12 evening set max. Earth dist. -9528 Nov 07 j 07:59 9° Mp 46'26 31.05135 AU morning rise -9528 Nov 21 j 23:04 10° m 19'16 conjunction -9534 Oct 24 j 16:13 26°**Ω**28'37 1°43'15 retrograde -9527 Feb 21 j 09:04 12° m 17'38 minimum elong -9534 Oct 24 j 16:14 26°**Ω**28'37 1°43'36 min. Earth dist. -9527 May 12 j 10:50 10° m 54'14 29.04721 AU max. Earth dist. -9534 Oct 25 j 14:02 26°**Ω**30'41 31.11628 AU opposition -9527 May 13 j 09:56 10° m 52'39 1°15'43 -9534 Nov 09 j 02:32 27°**Ω**03′22 -9527 Jul 30 j 09:14 9° m 29'57 morning rise direct -9533 Feb 08 j 02:49 29°**Ω**01'27 -9527 Oct 24 j 07:21 11° m 21'54 retrograde evening set

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9527 in astronomical counting style is the year 9528 BCE in historical counting style. -9527 Nov 08 i 19:09 11° m 56'41 1°08'12 direct -9520 Aug 14 i 10:55 25° m 01'19 conjunction -9527 Nov 08 i 19:10 11° **m** 56'41 evening set -9520 Nov 08 j 11:02 26° m 53'19 minimum elong 1°08'27 max. Earth dist. -9527 Nov 09 j 20:07 11° m 59'02 31.04182 AU -9527 Nov 24 j 10:44 -9520 Nov 24 j 03:29 12° m 31'49 conjunction 27° m/28'28 0°28'02 morning rise 27° m/28'28 -9526 Feb 23 j 22:52 -9520 Nov 24 j 03:29 0°28'08 retrograde 14° m 30'13 minimum elong -9520 Nov 25 j 05:26 opposition -9526 May 15 j 22:11 13°Mp05'11 1°09'55 max. Earth dist. 27° m 30'55 30.98487 AU min. Earth dist. -9526 May 14 j 21:31 13°M 06'53 29.03809 AU morning rise -9520 Dec 10 j 00:04 28° Mp 04'01 direct -9526 Aug 01 j 21:26 11° m/42'29 -9519 Feb 26 j 12:08 0∘ಹ evening set -9526 Oct 26 j 17:46 13° m 34'25 retrograde -9519 Mar 11 j 17:28 0°**£**02'50 -9519 Mar 25 j 00:36 30°R, M) conjunction -9526 Nov 11 j 06:05 14° m 09'15 1°02'43 min. Earth dist. -9519 May 30 j 10:47 28° m/39'22 28.97988 AU -9526 Nov 11 j 06:06 minimum elong 14°Mp09'15 1°02'56 opposition -9519 May 31 j 11:47 28° My 37'380°26'41 max. Earth dist. -9526 Nov 12 j 06:50 14° Mp 11'35 31.03321 AU direct -9519 Aug 16 j 22:24 27° m 14'55 morning rise -9526 Nov 26 j 22:31 14° m/ 44'27 evening set -9519 Nov 10 j 22:30 29° M 06'56 retrograde -9525 Feb 26 j 10:45 16° Mp 42'55 min. Earth dist. -9525 May 17 j 10:19 15° Mp 19'31 29.02997 AU conjunction -9519 Nov 26 j 15:32 29° Mp 42'08 0°22'04 opposition -9525 May 18 j 10:30 15° Mp 17'511°04'00 minimum elong -9519 Nov 26 j 15:32 29° Mp 42'08 0°22'09 direct -9525 Aug 04 j 07:00 13° m 55'10 max. Earth dist. -9519 Nov 27 j 17:05 29° Mp 44'32 30.97390 AU evening set -9525 Oct 29 j 04:08 15° m 47'05 -9519 Dec 04 j 13:41 morning rise -9519 Dec 12 j 12:50 0°**£**17'44 conjunction -9525 Nov 13 j 17:18 16° m/21'58 0°57'08 retrograde -9518 Mar 14 j 06:54 2°**£**16'33 minimum elong -9525 Nov 13 j 17:19 16° m 21'58 0°57'21 opposition -9518 Jun 02 i 23:55 0°**2**51'17 0°20'16 max. Earth dist. -9525 Nov 14 j 19:34 16° m 24'27 31.02557 AU min. Earth dist. -9518 Jun 02 i 00:04 0°**2**52'57 28.96853 AU morning rise -9525 Nov 29 i 10:18 16° m 57'14 -9518 Jul 06 i 02:46 30°R ₩ retrograde -9524 Feb 28 j 22:36 18° m 55'45 direct -9518 Aug 19 j 10:15 29° m 28'31 -9524 May 19 j 22:43 17° m 30'41 0°57'59 -9518 Oct 01 j 10:46 0∘**⊽** opposition -9524 May 18 j 21:32 17° Mp 32'25 29.02251 AU -9518 Nov 13 j 09:48 1°**2**20'32 min. Earth dist. evening set -9524 Aug 05 j 18:27 16° m 08'00 direct -9524 Oct 30 j 14:47 -9518 Nov 29 j 03:35 1°**£**55'47 0°16'03 17° m 59'56 conjunction evening set -9518 Nov 29 j 03:35 minimum elong 1°**2**55'47 0°16'05 -9524 Nov 15 j 04:29 18° m/34'52 0°51'28 -9518 Nov 30 j 05:40 conjunction max. Earth dist. 1°**2**58'14 30.96240 AU -9524 Nov 15 j 04:29 -9518 Dec 15 j 01:24 18° mg 34'52 0°51'38 2°**£**31'25 minimum elong morning rise max. Earth dist. -9524 Nov 16 j 06:00 18° Mp 37'17 31.01841 AU -9517 Mar 16 j 20:52 4°**2**30'14 retrograde 3°**2**06'38 28.95690 AU -9524 Nov 30 j 22:24 19° Mp 10'12 -9517 Jun 04 j 10:55 morning rise min. Earth dist. -9523 Mar 02 j 12:27 21° m 08'48 -9517 Jun 05 j 11:44 3°**2**04'54 0°13'49 retrograde opposition -9523 May 21 j 10:05 19° Mp 45'26 29.01540 AU min. Earth dist. direct -9517 Aug 21 j 23:08 1°**£**42'04 opposition -9523 May 22 j 11:04 19° m 43'43 0°51'52 evening set -9517 Nov 15 j 21:22 3°**£**34'05 direct -9523 Aug 08 j 03:13 18° m/21'03 -9523 Nov 02 j 01:37 20° m 13'00 conjunction -9517 Dec 01 j 15:36 4°**2**09'22 0°10'02 evening set minimum elong -9517 Dec 01 j 15:36 4°**₽**09'22 0°10'03 conjunction -9523 Nov 17 j 16:07 20° Mp 48'00 $0^{\circ}45'42$ behind sun begin -9517 Dec 01 j 10:22 4°**£**08'54 -9523 Nov 17 j 16:07 20° m/y 48'00 0°45'52 behind sun end -9517 Dec 01 j 20:50 4°**£**09'51 minimum elong -9523 Nov 18 j 18:48 20° m 50'31 31.01118 AU max. Earth dist. -9517 Dec 02 j 17:01 4° **2**11'46 30.95090 AU max. Earth dist. -9523 Dec 03 j 10:35 21°m/23'23 -9517 Dec 17 j 14:12 4°**£**45'04 morning rise morning rise -9522 Mar 05 j 00:08 -9516 Mar 18 j 09:02 6°**£**43'53 retrograde 23° m 22'03 retrograde opposition -9522 May 24 j 23:09 21° m 56'57 0°45'40 opposition -9516 Jun 06 i 23:41 5°**£**18'29 0°07'21 min. Earth dist. -9522 May 23 j 22:11 21° m 58'41 29.00788 AU min. Earth dist. -9516 Jun 05 i 23:45 5°**2**20'09 28.94577 AU direct -9522 Aug 10 j 14:21 20° m 34'19 direct -9516 Aug 23 i 09:17 3°**£**55'35 evening set -9522 Nov 04 j 12:43 22° m 26'18 evening set -9516 Nov 17 i 08:49 5°**-**47'36 conjunction -9522 Nov 20 i 03:46 23° m 01'20 0°39'53 -9516 Dec 03 i 03:51 6°**£**22'56 0°04'00 conjunction -9522 Nov 20 i 03:47 23° m 01'20 0°40'00 -9516 Dec 03 i 03:50 6°**£**22'56 0°03'59 minimum elong minimum elong -9522 Nov 21 j 05:37 23° Mp 03'46 31.00346 AU -9516 Dec 02 j 21:25 6°**£**22'21 max. Earth dist. behind sun begin morning rise -9522 Dec 05 j 23:02 23° m 36'46 behind sun end -9516 Dec 03 j 10:16 6° € 23'31 retrograde -9521 Mar 07 j 14:36 25° m 35'30 max. Earth dist. -9516 Dec 04 j 06:28 6°**£**25'26 30.94019 AU min. Earth dist. -9521 May 26 j 10:14 24° m/12'08 28.99971 AU morning rise -9516 Dec 19 j 02:54 6°**£**58'40 -9521 May 27 j 11:25 24° Mp 10'24 0°39'24 retrograde -9515 Mar 20 j 21:35 8°**£**57'28 opposition min. Earth dist. -9515 Jun 08 j 10:43 7°**2**33'45 28.93551 AU direct -9521 Aug 13 j 00:19 22° m 47'45 -9521 Nov 06 j 23:45 -9515 Jun 09 j 11:24 7°**♀**32'01 0°00'53 evening set 24° m 39'45 opposition -9515 Jul 28 j 11:47 6°**£**22'35 desc. node conjunction -9521 Nov 22 j 15:29 25° m 14'51 0°33'59 direct -9515 Aug 25 j 21:39 6°**♀**09'04 minimum elong -9521 Nov 22 j 15:30 25° m 14'51 0°34'07 evening set -9515 Nov 19 j 20:38 8°**£**01'07 max. Earth dist. -9521 Nov 23 j 17:52 25° m 17'19 30.99468 AU morning rise -9521 Dec 08 j 11:23 25° m 50'20 conjunction -9515 Dec 05 j 16:05 8°**2**36'30 -0°02'12 retrograde -9520 Mar 09 j 02:46 27° Mp 49'08minimum elong -9515 Dec 05 j 16:05 8°**£**36'30 0°02'12 -9520 May 28 j 23:44 26° Mp 23'59 behind sun begin -9515 Dec 05 j 09:34 8°**£**35'54 opposition 0°33'04 -9520 May 27 j 23:23 26° m 25'40 28.99033 AU behind sun end -9515 Dec 05 j 22:36 8°**£**37'05 min. Earth dist.

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9515 in astronomical counting style is the year 9516 BCE in historical counting style. opposition -9515 Dec 06 i 17:43 8°**2**38'54 30.93055 AU -9508 Jun 24 i 20:42 23°**£**09'42 -0°44'06 max. Earth dist. -9515 Dec 21 j 15:52 9°**₽**12'16 min. Earth dist. -9508 Jun 23 j 21:02 23°**2**11'21 28.89174 AU morning rise -9514 Mar 23 j 11:05 11°**£**11'05 -9508 Sep 10 j 00:43 21°**₽**46'34 direct retrograde -9514 Jun 11 j 23:03 9°**2**45'35 -0°05'36 -9508 Dec 05 j 10:24 23°**₽**39'05 opposition evening set 9°**2**47'18 28.92660 AU -9514 Jun 10 j 22:39 min. Earth dist. 8°**£**22'36 -9508 Dec 21 j 09:31 24° **△** 14'44 -0°44'07 direct -9514 Aug 28 j 06:59 conjunction -9508 Dec 21 j 09:31 24° **2**14'44 0°44'18 evening set -9514 Nov 22 j 08:21 10°**£**14'41 minimum elong -9508 Dec 22 j 09:57 max. Earth dist. 24°**£**17'01 30.88810 AU -9507 Jan 06 j 12:42 -9514 Dec 08 j 04:31 conjunction 10° 250'06 -0° 08'15 morning rise 24°**£**50'45 minimum elong -9514 Dec 08 j 04:31 10°**≏**50'06 0°08'18 retrograde -9507 Apr 08 j 06:29 26° 249'38 behind sun begin -9514 Dec 07 j 22:45 10°**-**49'35 min. Earth dist. -9507 Jun 26 j 10:17 25°**£**25'43 28.88522 AU -9514 Dec 08 j 10:16 -9507 Jun 27 j 08:23 behind sun end 10°**£**50'37 opposition 25°**2**24'10 -0°50'21 -9514 Dec 09 j 07:20 -9507 Sep 12 j 11:21 max. Earth dist. 10°**♀**52'37 30.92225 AU direct 24°**₽**00'59 morning rise -9514 Dec 24 j 04:42 11°**≙**25'55 evening set -9507 Dec 07 j 23:17 25°**♀**53'34 retrograde -9513 Mar 25 j 21:53 13°**♀**24'44 min. Earth dist. -9513 Jun 13 j 10:07 12°**♀**00'57 28.91898 AU conjunction -9507 Dec 23 j 23:02 26°**2**29'14 -0°49'56 opposition -9513 Jun 14 j 10:44 11° 259'14 -0°12'05 minimum elong -9507 Dec 23 j 23:01 26° **2**9'14 0°50'07 direct -9513 Aug 30 j 18:23 10°**♀**36'13 max. Earth dist. -9507 Dec 24 j 23:48 26°**2**31'33 30.88108 AU evening set -9513 Nov 24 j 20:08 12°**♀**28'21 morning rise -9506 Jan 09 j 02:25 27°**♀**05'16 retrograde -9506 Apr 10 j 20:12 29°**♀**04'07 conjunction -9513 Dec 10 j 16:46 13°**♀**03'48 -0°14'17 opposition -9506 Jun 29 j 19:44 27°**△**38'38 -0°56'32 minimum elong -9513 Dec 10 j 16:46 13°**2**03'48 0°14'20 min. Earth dist. -9506 Jun 28 i 21:37 27°**2**40'11 28.87777 AU behind sun begin -9513 Dec 10 j 13:49 13°**♀**03'32 -9506 Sep 15 i 00:37 26° **2**15′22 direct behind sun end -9513 Dec 10 j 19:44 13°**₽**04'04 evening set -9506 Dec 10 j 12:20 28°**♀**08'01 max. Earth dist. -9513 Dec 11 j 18:55 13°**2**06'15 30.91539 AU -9513 Dec 26 j 17:38 13°**₽**39'39 -9506 Dec 26 j 12:20 28°**£**43'42 -0°55'40 morning rise conjunction -9512 Mar 27 j 11:14 15°**£**38'30 -9506 Dec 26 j 12:20 28°**△**43'42 0°55'53 retrograde minimum elong -9512 Jun 15 j 22:25 -9506 Dec 27 j 11:23 28°**£**45'52 30.87338 AU 14° \omega 13'00 -0°18'33 max. Earth dist. opposition -9512 Jun 14 j 21:29 -9505 Jan 11 j 16:16 29°**₽**19'46 min. Earth dist. 14°**£**14'44 28.91273 AU morning rise -9512 Sep 01 j 03:55 12°**-**49′57 -9505 Jan 30 j 22:26 direct 0°M 14°**≏**42'10 -9512 Nov 26 j 08:13 -9505 Apr 13 j 09:38 retrograde 1°M18'34 evening set -9505 Jun 28 j 04:16 30°R <u>Ω</u> 15°**≏**17'39 -0°20'19 -9512 Dec 12 j 05:27 -9505 Jul 01 j 09:58 conjunction min. Earth dist. 29°**♀**54'32 28.87004 AU -9505 Jul 02 j 07:12 -9512 Dec 12 j 05:26 29°**£**53'02 -1°02'37 minimum elong 15°**♀**17'39 0°20'24 opposition -9512 Dec 13 j 08:15 15°**≙**20'10 30.90956 AU -9505 Sep 17 j 11:10 max. Earth dist. direct 28°**♀**29'42 -9512 Dec 28 j 06:45 -9505 Dec 02 j 13:41 morning rise 15°**£**53'33 0°M -9511 Mar 29 j 23:13 -9505 Dec 13 j 01:10 retrograde 17°**£**52'25 evening set 0°M22'24 min. Earth dist. -9511 Jun 17 j 09:55 16°**£**28'37 28.90732 AU opposition -9511 Jun 18 j 10:00 16°**2**26'55 -0°25'00 conjunction -9505 Dec 29 j 01:44 0°M58'07 -1°01'19 direct -9511 Sep 03 j 13:32 15°**♀**03'52 minimum elong -9505 Dec 29 j 01:43 0°M58'07 1°01'33 -9511 Nov 28 j 20:29 16°**£**56'09 max. Earth dist. -9505 Dec 30 j 01:25 1°M00'20 30.86556 AU evening set -9504 Jan 14 j 05:51 1°M34'12 morning rise -9511 Dec 14 j 18:16 17°**2**31'41 -0°26'19 -9504 Apr 14 j 20:49 3°M32'57 conjunction retrograde -9511 Dec 14 j 18:16 17°**♀**31'41 0°26'25 -9504 Jul 03 j 18:31 2°M07'23 -1°08'37 minimum elong opposition -9511 Dec 15 j 20:37 17°**♀**34'09 30.90452 AU min. Earth dist. -9504 Jul 02 j 21:39 2°ML08'51 28.86236 AU max. Earth dist. -9511 Dec 30 i 20:05 morning rise 18°**♀**07'36 direct -9504 Sep 18 j 23:21 0°M43'58 retrograde -9510 Apr 01 i 13:34 20°**♀**06'30 evening set -9504 Dec 14 j 14:22 2°M36'43 opposition -9510 Jun 20 j 21:33 18°**-**41'01 -0°31'25 -9504 Dec 30 i 15:13 min. Earth dist. -9510 Jun 19 i 20:56 18°**£**42'45 28.90242 AU conjunction 3°ML12'28 -1°06'52 direct -9510 Sep 06 i 00:50 17°**£**17'57 minimum elong -9504 Dec 30 i 15:13 3°ML12'28 1°07'08 -9510 Dec 01 j 08:56 19°**₽**10'19 max. Earth dist. -9504 Dec 31 j 13:35 3°ML14'34 30.85821 AU evening set -9503 Jan 15 i 19:47 3°M48'34 morning rise -9510 Dec 17 j 07:06 19°**£**45'53 -0°32'18 -9503 Apr 17 j 10:02 5°**M**47'15 conjunction retrograde -9503 Jul 05 j 08:53 minimum elong -9510 Dec 17 j 07:06 19°**△**45'53 0°32'26 min. Earth dist. 4°ML23'09 28.85553 AU max. Earth dist. -9510 Dec 18 j 08:58 19°**£**48'19 30.89949 AU opposition -9503 Jul 06 j 05:37 4°ML21'41 -1°14'31 -9503 Sep 21 j 09:33 morning rise -9509 Jan 02 j 09:23 20°**£**21'51 direct 2°M58'10 retrograde -9509 Apr 04 j 02:40 22°**₽**20'46 evening set -9503 Dec 17 j 03:35 4°ML51'01 -9509 Jun 22 j 09:59 20°**⊆**56'55 28.89736 AU min. Earth dist. -9509 Jun 23 j 09:13 20°**£**55'18 -0°37'47 -9502 Jan 02 j 04:51 5°M26'47 -1°12'20 opposition conjunction -9509 Sep 08 j 12:06 19°**♀**32'12 -9502 Jan 02 j 04:50 direct minimum elong 5°M26'47 1°12'36 -9509 Dec 03 j 21:31 -9502 Jan 03 j 03:36 evening set 21°**£**24'39 max. Earth dist. 5°M28'55 30.85174 AU morning rise -9502 Jan 18 j 09:35 6°ML02'53 conjunction -9509 Dec 19 j 20:18 22°**♀**00'16 -0°38'14 retrograde -9502 Apr 19 j 21:30 8°M01'33 minimum elong -9509 Dec 19 j 20:17 22°**£**00'15 0°38'22 opposition -9502 Jul 08 j 16:49 6°M35'58 -1°20'17 max. Earth dist. -9509 Dec 20 j 22:09 22°**೨**02'41 30.89422 AU min. Earth dist. -9502 Jul 07 j 21:03 6°M37'22 28.84976 AU -9508 Jan 04 j 22:54 22°**♀**36'15 -9502 Sep 23 j 19:35 5°M12'24 morning rise direct -9508 Apr 05 j 16:55 24°**£**35′09 -9502 Dec 19 j 16:44 7°M05'21 retrograde evening set

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9501 in astronomical counting style is the year 9502 BCE in historical counting style. -9501 Jan 04 i 18:20 7°ML41'07 -1°17'41 retrograde -9495 May 05 j 19:16 23°M44'58 conjunction -9501 Jan 04 i 18:19 7°ML41'07 1°17'59 -9495 Jul 23 j 22:14 22°M19'45 -1°56'56 minimum elong opposition max. Earth dist. -9501 Jan 05 j 16:28 min. Earth dist. -9495 Jul 23 j 06:28 22°M20'52 28.83817 AU 7°M43'12 30.84667 AU -9495 Oct 09 j 05:43 -9501 Jan 20 j 23:20 8°M17'15 20°M55'58 morning rise direct -9501 Apr 22 j 10:42 -9494 Jan 04 j 17:41 22°M49'50 retrograde 10°M15'52 evening set -9501 Jul 10 j 07:32 min. Earth dist. 8°M51'45 28.84550 AU opposition -9501 Jul 11 j 03:54 8°M50'18 -1°25'57 conjunction -9494 Jan 20 j 21:07 23°M25'45 -1°51'28 -9494 Jan 20 j 21:06 direct -9501 Sep 26 j 07:07 7°M26'41 minimum elong 23°M25'45 1°51'52 -9494 Jan 21 j 13:43 evening set -9501 Dec 22 j 06:08 9°M19'45 max. Earth dist. 23°M27'18 30.83589 AU morning rise -9494 Feb 06 j 03:15 24°M01'56 conjunction -9500 Jan 07 j 08:00 9°M55'33 -1°22'55 retrograde -9494 May 08 j 09:41 26°ML00'18 -9500 Jan 07 j 07:59 -9494 Jul 26 j 09:20 minimum elong 9°M255'33 1°23'13 opposition 24° MJ35'07 -2°01'31 -9500 Jan 08 j 05:45 -9494 Jul 25 j 18:14 max. Earth dist. 9°M57'35 30.84302 AU min. Earth dist. 24°M36'11 28.83589 AU morning rise -9500 Jan 23 j 13:15 10°M31'41 direct -9494 Oct 11 j 16:51 23°M11'15 retrograde -9500 Apr 23 j 22:50 12°M30'17 evening set -9493 Jan 07 j 07:50 25°M05'14 opposition -9500 Jul 12 j 15:01 11°ML04'45 -1°31'29 min. Earth dist. -9500 Jul 11 j 19:57 11°ML06'06 28.84269 AU conjunction -9493 Jan 23 j 11:33 25°M41'09 -1°55'40 direct -9500 Sep 27 j 17:57 9°M41'06 minimum elong -9493 Jan 23 j 11:32 25°M41'09 1°56'07 evening set -9500 Dec 23 j 19:35 11°M34'17 max. Earth dist. -9493 Jan 24 j 03:56 25°M42'41 30.83302 AU morning rise -9493 Feb 08 j 17:38 26°M17'20 conjunction -9499 Jan 08 j 21:55 12°ML10'07 -1°28'01 retrograde -9493 May 10 j 20:52 28°M15'37 minimum elong -9499 Jan 08 j 21:54 12°M10'07 1°28'22 opposition -9493 Jul 28 i 20:24 26°M50'26 -2°05'56 max. Earth dist. -9499 Jan 09 i 19:36 12°M12'09 30.84090 AU min. Earth dist. -9493 Jul 28 i 06:52 26°M51'24 28.83274 AU morning rise -9499 Jan 25 i 03:19 12°M46'15 direct -9493 Oct 14 i 03:48 25°M26'30 retrograde -9499 Apr 26 j 12:48 14°M44'50 evening set -9492 Jan 09 j 22:11 27°M20'33 -9499 Jul 14 j 06:25 13°M20'45 28.84114 AU min. Earth dist. -9499 Jul 15 j 02:02 13°M19'22 -1°36'52 -9492 Jan 26 j 02:04 27°M56'29 -1°59'42 conjunction opposition -9499 Sep 30 j 06:18 11°M55'41 -9492 Jan 26 j 02:03 27°M56'29 2°00'09 minimum elong direct -9499 Dec 26 j 09:22 13°M49'01 -9492 Jan 26 j 16:59 27°M-57'53 30.82970 AU max. Earth dist. evening set -9492 Feb 11 j 08:18 28°M32'39 morning rise -9498 Jan 11 j 11:48 14°ML24'52 -1°33'00 -9492 Mar 29 j 16:14 0° **₹** conjunction -9498 Jan 11 j 11:47 -9492 May 12 j 09:14 0°**х**³30′50 minimum elong 14°M24'52 1°33'21 retrograde -9498 Jan 12 j 08:16 max. Earth dist. 14°M26'47 30.83973 AU -9492 Jun 25 j 16:27 30°RML 15° ML 01'01-9498 Jan 27 j 17:29 -9492 Jul 30 j 07:10 29°M05'39 -2°10'09 morning rise opposition -9498 Jan 27 j 06:17 -9492 Jul 29 j 17:44 29°M06'37 28.82938 AU 15°M₊ min. Earth dist. -9498 Apr 29 j 02:25 -9492 Oct 15 j 16:03 retrograde 16°M59'35 direct 27°M41'36 29°M35'46 -9498 Jul 17 j 13:06 -9491 Jan 11 j 12:38 opposition 15°M34'11 -1°42'08 evening set min. Earth dist. -9498 Jul 16 j 19:00 15°M35'28 28.84049 AU -9491 Jan 22 j 11:22 0°**⊼** -9498 Aug 07 j 05:44 15°RM direct -9498 Oct 02 j 16:42 14°M10'30 conjunction -9491 Jan 27 j 16:40 0° ₹11'41 -2°03'33 -9498 Nov 26 j 14:05 15°M₀ minimum elong -9491 Jan 27 j 16:40 0°**х** 11'41 2°04'02 -9498 Dec 28 j 23:07 16°ML03'58 max. Earth dist. -9491 Jan 28 j 06:45 0° ₹13'00 30.82622 AU evening set -9491 Feb 12 j 22:55 0°**х** 47′51 morning rise -9497 Jan 14 j 01:59 16°MJ39'50 -1°37'51 -9491 May 14 j 20:20 2°**∡**¹45'55 conjunction retrograde -9497 Jan 14 j 01:58 -9491 Aug 01 j 18:06 1°**₹**20'44 -2°14'09 minimum elong 16°M39'50 1°38'14 opposition -9497 Jan 14 j 22:46 max. Earth dist. 16°M41'47 30.83928 AU min. Earth dist. -9491 Aug 01 i 06:24 1° ₹21'34 28.82618 AU -9497 Jan 30 i 07:39 -9491 Oct 04 i 01:32 morning rise 17°M16'00 30°RM retrograde -9497 May 01 j 17:01 19°M14'32 direct -9491 Oct 18 i 02:59 29°M56'35 min. Earth dist. -9497 Jul 19 i 06:06 17°M 50'29 28.84015 AU -9491 Nov 01 i 05:28 0°×7 -9497 Jul 20 i 00:06 17°M49'12 -1°47'14 -9490 Jan 14 j 02:58 1°**х** 50′50 opposition evening set direct -9497 Oct 05 j 06:10 16°ML25'30 -9497 Dec 31 j 13:07 18°**ጤ**19'07 -9490 Jan 30 i 07:12 2°x726'46 -2°07'13 evening set conjunction -9490 Jan 30 j 07:12 2°x726'46 2°07'41 minimum elong -9490 Jan 30 j 20:42 conjunction -9496 Jan 16 j 16:04 18°M55'01 -1°42'33 max. Earth dist. 2° ₹ 28'02 30.82327 AU 3°**∡**02'54 minimum elong -9496 Jan 16 j 16:03 18°M 55'00 1°42'55 morning rise -9490 Feb 15 j 13:24 max. Earth dist. -9496 Jan 17 j 10:53 18°M.56'46 30.83883 AU retrograde -9490 May 17 j 09:12 5°**х**¹00'52 -9490 Aug 04 j 04:45 -9496 Feb 01 j 22:03 19°M31'11 opposition 3°**х** 35′42 -2°17′58 morning rise -9496 May 03 j 06:46 21°M29'42 -9490 Aug 03 j 16:43 3°**∡**36'34 28.82368 AU retrograde min. Earth dist. -9496 Jul 21 j 11:15 20°M04'25 -1°52'10 -9490 Oct 20 j 15:21 2°×11'26 opposition direct -9496 Jul 20 j 18:32 20°ML05'36 28.83962 AU -9489 Jan 16 j 17:25 4°\$\square\$05'49 min. Earth dist. evening set direct -9496 Oct 06 j 17:14 18°**M**40'41 evening set -9495 Jan 02 j 03:17 20°M34'26 conjunction -9489 Feb 01 j 21:40 4°**х** 41'44 -2°10'40 minimum elong -9489 Feb 01 j 21:39 4°**х** 41'44 2°11'10 conjunction -9495 Jan 18 j 06:38 21°M10'20 -1°47'05 max. Earth dist. -9489 Feb 02 j 09:51 4°**∡**′42'52 30.82120 AU minimum elong -9495 Jan 18 j 06:37 21°M10'20 1°47'29 morning rise -9489 Feb 18 j 03:55 5°**х** 17′52 -9495 Jan 19 j 01:25 21°M12'06 30.83779 AU -9489 May 19 j 21:17 7°**⋌**15'44 max. Earth dist. retrograde -9495 Feb 03 j 12:33 21°M46'31 -9489 Aug 06 j 15:33 5°**∡**750'34 -2°21'34 morning rise opposition

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9489 in astronomical counting style is the year 9490 BCE in historical counting style. 5°**尽**51'20 28.82241 AU min. Earth dist. -9489 Aug 06 i 05:01 morning rise -9482 Mar 06 i 10:39 21°× 03'41 -9489 Oct 23 i 02:32 4°×726'14 -9482 Jun 04 i 14:59 23°×700'55 direct retrograde -9488 Jan 19 j 07:40 6°**х** 20'43 -9482 Aug 21 j 18:24 21° x 36'19 -2°40'23 evening set opposition min. Earth dist. -9482 Aug 21 j 14:13 21°**х** 36'36 28.83750 AU -9488 Feb 04 j 12:14 -9482 Nov 07 j 14:12 conjunction 6°**х** 56'39 -2°13'56 direct 20° **₹**11'41 minimum elong -9488 Feb 04 j 12:13 -9481 Feb 04 j 14:55 22°**₹**07'08 6°**х** 56'38 2°14'26 evening set -9488 Feb 05 j 00:38 max. Earth dist. 6°**≯**57'48 30.82052 AU -9481 Feb 20 j 19:58 22°\$\square\$43'06 -2°30'48 morning rise -9488 Feb 20 j 18:21 7°**х** 32′45 conjunction -9488 May 21 j 10:20 9°**х**³30'31 -9481 Feb 20 j 19:57 retrograde minimum elong 22° 🗷 43'06 2°31'21 8°**∡**105'24 -2°24'56 22°**∡**′43'32 30.83608 AU opposition -9488 Aug 08 j 02:13 max. Earth dist. -9481 Feb 21 j 00:29 min. Earth dist. -9488 Aug 07 j 15:40 8°**尽**06'09 28.82238 AU morning rise -9481 Mar 09 j 01:33 23°**х** 19′09 -9488 Oct 24 j 16:23 -9481 Jun 07 j 03:36 25°**х** 16′15 direct 6°**х** 41′00 retrograde -9487 Jan 20 j 22:18 evening set 8°**∡**³35'36 opposition -9481 Aug 24 j 04:58 23°**х** 51'42 -2°42'07 min. Earth dist. -9481 Aug 24 j 00:55 23°**尽**52'00 28.83863 AU conjunction -9487 Feb 06 j 02:48 9°**∡**11'33 -2°17'00 direct -9481 Nov 10 j 02:26 22°×726'59 minimum elong -9487 Feb 06 j 02:47 9°**∡**11'33 2°17'30 evening set -9480 Feb 07 j 05:51 24°**х** 22'34 max. Earth dist. -9487 Feb 06 j 13:22 9°**҂**12'32 30.82113 AU morning rise -9487 Feb 22 j 09:02 9°**∡**47'39 conjunction -9480 Feb 23 j 10:53 24°**∡**¹58'31 -2°32'18 retrograde -9487 May 23 j 23:36 11°**∡**¹45'19 minimum elong -9480 Feb 23 j 10:52 24° **1**58'31 2°32'52 opposition -9487 Aug 10 j 12:52 10°**₹**20'16 -2°28'06 max. Earth dist. -9480 Feb 23 j 13:38 24°**✗**′58'47 30.83682 AU min. Earth dist. -9487 Aug 10 j 03:21 10°**₹**20'57 28.82378 AU morning rise -9480 Mar 10 j 16:26 25°**х** 34′33 direct -9487 Oct 27 i 03:41 8°**х** 55'48 retrograde -9480 Jun 08 i 14:43 27°**х** 31'32 evening set -9486 Jan 23 j 12:49 10°**х** 50'34 opposition -9480 Aug 25 i 15:42 26°**₹**07'01 -2°43'37 min. Earth dist. -9480 Aug 25 j 13:36 26°**₹**07'10 28.83921 AU conjunction -9486 Feb 08 i 17:35 11°**₹**26'30 -2°19'51 direct -9480 Nov 11 i 14:13 24°**х** 42′12 -9486 Feb 08 j 17:34 11°×726'30 2°20'21 -9479 Feb 08 j 20:43 26°**х** 37′53 minimum elong evening set -9486 Feb 09 j 04:27 11°**₹**27'31 30.82305 AU max Earth dist -9486 Feb 24 j 23:35 12°**₹**'02'36 -9479 Feb 25 i 01:54 27°**∡**13'50 -2°33'35 morning rise conjunction -9486 May 26 j 12:22 14°**₰**00'11 -9479 Feb 25 i 01:54 retrograde 27° **1**3'50 2°34'09 minimum elong 27°**҂**14′03 30.83727 AU -9486 Aug 12 j 23:34 12°**∡** 35'13 -2°31'01 -9479 Feb 25 j 04:16 opposition max. Earth dist. -9486 Aug 12 j 14:43 -9479 Mar 13 j 07:13 27°**х** 49′50 min. Earth dist. 12°**✗**35'51 28.82622 AU morning rise -9479 Jun 11 j 02:43 -9486 Oct 29 j 16:25 11°**⋌**10'44 retrograde 29°**х¹**46'40 direct -9479 Aug 28 j 02:08 -9485 Jan 26 j 03:22 13°**х** 05'38 28°**₹**22'11 -2°44'51 evening set opposition -9479 Aug 28 j 00:27 28°**✗**22'18 28.83962 AU min. Earth dist. -9485 Feb 11 j 08:04 13°**∡**'41'35 -2°22'29 -9479 Nov 14 j 04:22 conjunction direct 26°**₹**57'17 -9485 Feb 11 j 08:03 -9478 Feb 11 j 11:38 28°**х** 53'03 minimum elong 13°**₹**41'35 2°23'01 evening set -9485 Feb 11 j 17:00 max. Earth dist. 13°**✗**42'25 30.82594 AU morning rise -9485 Feb 27 j 14:10 14°**∡**17'40 conjunction -9478 Feb 27 j 16:41 29°**∡**¹29'00 -2°34'37 retrograde -9485 May 29 j 02:57 16°**х** 15′10 minimum elong -9478 Feb 27 j 16:41 29° 🗷 29'00 2°35'12 opposition -9485 Aug 15 j 10:14 14°**∡**°50′18 -2°33′43 max. Earth dist. -9478 Feb 27 j 17:03 29°**✗**29'02 30.83785 AU min. Earth dist. -9485 Aug 15 j 01:55 14°**✗**′50′54 28.82948 AU -9478 Mar 13 j 15:20 0°궁 -9485 Nov 01 j 04:00 13°**∡** 25'48 -9478 Mar 15 j 22:00 0°る04'59 direct morning rise -9484 Jan 28 j 18:08 15°**∡**¹20'51 -9478 Jun 13 j 15:15 2°る01'40 evening set retrograde -9478 Aug 30 j 12:42 0°る37'12 -2°45'51 opposition -9484 Feb 13 j 23:01 15°**₹**56'48 -2°24'54 min. Earth dist. -9478 Aug 30 j 12:11 0°る37'15 28.84064 AU conjunction -9484 Feb 13 i 23:00 -9478 Sep 22 i 00:04 minimum elong 15°**∡** 56'48 2°25'26 30°R.✓ -9484 Feb 14 i 07:49 max. Earth dist. 15°**₹**57'38 30.82918 AU direct -9478 Nov 16 i 15:52 29° **₹**12'13 morning rise -9484 Mar 01 i 04:54 16°**х** 32′53 -9477 Jan 10 i 05:40 0°궁 retrograde -9484 May 30 j 14:23 18°**х** 30′19 evening set -9477 Feb 14 i 02:07 1°る08'04 -9484 Aug 16 j 20:53 17°**₹**05'32 -2°36'11 opposition min. Earth dist. -9484 Aug 16 j 14:20 17°**₹**06'00 28.83274 AU conjunction -9477 Mar 02 i 07:22 1°る44'01 -2°35'26 -9484 Nov 02 j 15:18 15°**∡**′41′01 minimum elong -9477 Mar 02 i 07:22 1°る44'01 2°36'00 direct -9483 Jan 30 j 09:07 17°**х** 36′13 max. Earth dist. -9477 Mar 02 j 07:59 1°る44'04 30.83922 AU evening set 2°る19'58 morning rise -9477 Mar 18 j 12:24 conjunction -9483 Feb 15 j 14:00 18° **₹**12'10 -2°27'05 retrograde -9477 Jun 16 j 03:25 4°7516'30 18°**≯**12'10 2°27'38 minimum elong -9483 Feb 15 j 14:00 opposition -9477 Sep 01 j 23:11 2°る52'05 -2°46'35 max. Earth dist. -9483 Feb 15 j 20:54 18°**✗**12'49 30.83228 AU min. Earth dist. -9477 Sep 01 j 23:22 2°る52'04 28.84250 AU -9483 Mar 03 j 19:53 18°**∡**¹48'15 direct -9477 Nov 19 j 05:36 1°る27'01 morning rise -9483 Jun 02 j 03:35 20°**х** 45'34 -9476 Feb 16 j 16:54 3°る22'58 retrograde evening set 19°**х** 20′54 -2°38′24 opposition -9483 Aug 19 j 07:35 -9476 Mar 03 j 22:01 3°る58'54 -2°36'00 min. Earth dist. -9483 Aug 19 j 01:20 19°**✗**21′20 28.83557 AU conjunction direct -9483 Nov 05 j 03:31 17°**х** 56′19 minimum elong -9476 Mar 03 j 22:01 3°**ප**58'54 2°36'35 evening set -9482 Feb 02 j 00:02 19°**х** 51′40 max. Earth dist. -9476 Mar 03 j 20:37 3°る58'46 30.84174 AU morning rise -9476 Mar 20 j 03:05 4°る34'50 conjunction -9482 Feb 18 j 04:58 20°**₹**27'38 -2°29'03 retrograde -9476 Jun 17 j 17:19 6°**ප**31'13 minimum elong -9482 Feb 18 j 04:57 20°**∡**27'38 -9476 Sep 03 j 09:31 5°る06'50 -2°47'04 2°29'36 opposition max. Earth dist. -9482 Feb 18 j 10:48 20°**✗**28′10 30.83454 AU min. Earth dist. -9476 Sep 03 j 10:02 5°る06'48 28.84579 AU

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Earth dist. 21°る56'38 30.89425 AU min. Earth dist. -9475 Sep 05 j 21:54 7°る21'24 28.85048 AU morning rise -9468 Apr 07 j 22:52 22°る33'14 direct -9475 Nov 23 j 06:53 5°₹56'21 retrograde -9468 Jul 05 j 14:12 24°る28'29 7°**る**52'30 -9468 Sep 20 j 21:30 23°る04'49 -2°41'45 evening set -9474 Feb 20 j 22:10 opposition -9468 Sep 21 j 05:51 min. Earth dist. 23°る04'14 28.89909 AU conjunction -9474 Mar 09 j 03:19 8°る28'26 -2°36'26 direct -9468 Dec 08 j 19:52 21°る39'24 minimum elong -9474 Mar 09 j 03:19 8°る28'26 2°37'01 evening set -9467 Mar 09 j 04:57 23°る36'11 max. Earth dist. -9474 Mar 09 j 00:37 8°る28'11 30.85120 AU morning rise -9474 Mar 25 j 08:00 9°**る**04'20 conjunction -9467 Mar 25 j 09:54 24°る12'05 -2°30'27 retrograde -9474 Jun 22 j 17:14 11°る00'26 minimum elong -9467 Mar 25 j 09:55 24°る12'05 2°30'59 opposition -9474 Sep 08 j 06:27 9°**ප**36'13 -2°47'16 max. Earth dist. -9467 Mar 24 j 22:54 24°る11'03 30.89964 AU min. Earth dist. -9474 Sep 08 j 08:06 9°る36'06 28.85670 AU morning rise -9467 Apr 10 j 13:22 24°る47'51 direct -9474 Nov 25 j 19:14 8°**ح**11'00 retrograde -9467 Jul 08 j 03:18 26°る42'57 evening set -9473 Feb 23 i 12:46 10°る07'15 opposition -9467 Sep 23 i 08:02 25°る19'19 -2°39'59 min. Earth dist. -9467 Sep 23 i 16:58 25°る18'41 28.90432 AU conjunction -9473 Mar 11 j 17:58 10°る43'12 -2°36'17 direct -9467 Dec 11 i 09:09 23°る53'50 -9473 Mar 11 j 17:58 10°る43'12 2°36'52 evening set -9466 Mar 11 j 19:14 25°る50'40 minimum elong -9473 Mar 11 j 14:56 10°る42'55 30.85800 AU max. Earth dist. -9473 Mar 27 j 22:24 11°る19'05 -9466 Mar 28 j 00:17 26°**ප්**26'33 -2°28'40 morning rise conjunction -9473 Jun 25 j 04:45 13°る15'03 -9466 Mar 28 j 00:17 26°**ප්**26'33 2°29'13 retrograde minimum elong 11°**ප**50'56 -2°46'59 -9473 Sep 10 j 16:53 -9466 Mar 27 j 13:23 26°る25'32 30.90477 AU max. Earth dist. opposition -9473 Sep 10 j 20:18 11°る50'42 28.86406 AU -9466 Apr 13 j 03:22 27°る02'18 min. Earth dist. morning rise -9473 Nov 28 j 05:48 -9466 Jul 10 j 13:42 28°る57'14 10°**ට**25'43 retrograde direct -9472 Feb 26 j 03:24 opposition -9466 Sep 25 j 18:35 12°る22'04 27°**る**33'39 -2°37'58 evening set 27°る32'54 28.90947 AU min. Earth dist. -9466 Sep 26 j 05:03 -9472 Mar 13 j 08:38 12°る58'00 -2°35'54 -9466 Dec 13 j 22:11 26°**る**08'06 conjunction direct -9472 Mar 13 j 08:38 12°る58'00 2°36'29 -9465 Mar 14 j 09:37 28°**る**04'58 minimum elong evening set -9472 Mar 13 j 04:27 12°る57'37 30.86582 AU max. Earth dist. 28°る40'51 -2°26'40 -9472 Mar 29 j 12:58 -9465 Mar 30 j 14:29 morning rise 13°**る**33'52 conjunction retrograde -9472 Jun 26 j 16:48 15°**る**29'43 minimum elong -9465 Mar 30 j 14:30 28°る40'51 2°27'12 opposition -9472 Sep 12 j 03:18 14°る05'43 -2°46'26 max. Earth dist. -9465 Mar 30 j 01:52 28°る39'40 30.91026 AU min. Earth dist. -9472 Sep 12 j 06:41 14°る05'29 28.87198 AU morning rise -9465 Apr 15 j 17:32 29°る16'34 -9472 Nov 29 j 18:03 12°る40'28 -9465 May 06 j 18:50 0°≈ direct -9471 Feb 27 j 18:13 14°**る**36'56 -9465 Jul 13 j 02:40 1°≈11'19 evening set retrograde -9465 Sep 21 j 00:26 30°Ŗる -9471 Mar 15 j 23:20 15°る12'52 -2°35'17 -9465 Sep 28 j 04:50 29°る47'47 -2°35'42 conjunction opposition -9471 Mar 15 j 23:20 15°**ප**12'52 2°35'51 min. Earth dist. -9465 Sep 28 j 15:14 29°る47'03 28.91522 AU minimum elong -9471 Mar 15 i 17:43 max. Earth dist. 15°る12'21 30.87371 AU direct -9465 Dec 16 i 11:20 28°る22'11 morning rise -9471 Apr 01 i 03:28 15°**⋜**48'44 -9464 Mar 07 i 01:02 0°≈ retrograde -9471 Jun 29 i 03:19 17°る44'26 evening set -9464 Mar 15 i 23:51 0°≈19'06 opposition -9471 Sep 14 i 13:51 16°**ප්**20'33 -2°45'38 min. Earth dist. -9471 Sep 14 i 19:10 16°る20'10 28.87984 AU conjunction -9464 Apr 01 j 04:45 0°≈54'58 -2°24'28 direct -9471 Dec 02 j 05:16 14°**ප**55'17 minimum elong -9464 Apr 01 i 04:46 0°≈54'58 2°25'00 -9470 Mar 02 j 08:54 16°**る**51'51 max. Earth dist. -9464 Mar 31 i 15:58 0°≈53'47 30.91640 AU evening set -9464 Apr 17 j 07:29 1°≈30'40 morning rise -9464 Jul 14 j 13:42 conjunction -9470 Mar 18 j 14:06 17°る27'46 -2°34'25 retrograde 3°225'16 minimum elong -9470 Mar 18 j 14:06 17°る27'46 2°34'59 opposition -9464 Sep 29 j 15:23 2°≈01'47 -2°33'13 -9464 Sep 30 j 03:23 max. Earth dist. -9470 Mar 18 j 07:52 17°る27'11 30.88136 AU min. Earth dist. 2°≈00'56 28.92188 AU 18°**る**03'36 -9470 Apr 03 j 17:58 direct -9464 Dec 17 j 22:59 0°≈36'09 morning rise -9470 Jul 01 j 14:56 19°**る**59'11 -9463 Mar 18 j 14:00 retrograde evening set 2°≈33'06 -9470 Sep 17 j 00:25 18°る35'23 -2°44'35 opposition -9470 Sep 17 j 06:13 18°る34'58 28.88707 AU -9463 Apr 03 j 18:47 3°≈08'58 -2°22'02 min. Earth dist. conjunction 17°る10'05 direct -9470 Dec 04 j 18:23 minimum elong -9463 Apr 03 j 18:47 3°≈08'58 2°22'32 evening set -9469 Mar 04 j 23:34 19°**る**06'44 max. Earth dist. -9463 Apr 03 j 05:03 3°≈07'41 30.92374 AU morning rise -9463 Apr 19 j 21:20 3°≈44'39 conjunction -9469 Mar 21 j 04:36 19°る42'39 -2°33'19 retrograde -9463 Jul 17 j 00:56 5°≈39'05 minimum elong -9469 Mar 21 j 04:37 19°**る**42'39 2°33'52 opposition -9463 Oct 02 j 01:46 4°≈15'41 -2°30'31 max. Earth dist. -9469 Mar 20 j 20:14 19°る41'52 30.88821 AU min. Earth dist. -9463 Oct 02 j 13:17 4°≈14'52 28.92978 AU -9469 Apr 06 j 08:25 20°る18'28 -9463 Dec 20 j 11:49 2°≈50'02 morning rise direct

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Earth dist. -9462 Oct 05 j 01:09 6°≈28'39 28.93918 AU conjunction -9455 Apr 22 j 09:11 direct -9462 Dec 22 j 22:38 5°≈03'54 minimum elong -9455 Apr 22 j 09:12 21°**≈**00′57 1°55'39 evening set -9461 Mar 23 j 17:55 7°**≈**00'57 max. Earth dist. -9455 Apr 21 j 13:02 20°≈59'04 31.00463 AU -9455 May 08 j 09:37 morning rise 21°≈36'27 conjunction -9461 Apr 08 j 22:36 7°≈36'49 -2°16'32 retrograde -9455 Aug 03 j 18:46 23°≈29'53 minimum elong -9461 Apr 08 j 22:36 7°**≈**36'49 2°17'01 opposition -9455 Oct 19 j 14:44 22°≈07'11 -2°01'03 max. Earth dist. -9461 Apr 08 j 08:01 7°≈35'27 30.94255 AU min. Earth dist. -9455 Oct 20 j 09:33 22°≈05'52 29.00983 AU morning rise -9461 Apr 25 j 00:40 8°≈12'27 direct -9454 Jan 07 j 15:26 20°≈41'33 retrograde -9461 Jul 21 j 21:51 10°≈06'38 evening set -9454 Apr 08 j 19:02 22°≈38'52 opposition -9461 Oct 06 j 22:46 8°≈43'26 -2°24'24 min. Earth dist. -9461 Oct 07 j 11:39 8°≈42'32 28.94971 AU conjunction -9454 Apr 24 j 22:34 23°≈14'38 -1°51'05 direct -9461 Dec 25 j 10:49 7°≈17'47 minimum elong -9454 Apr 24 j 22:35 23°**≈**14'38 1°51'29 9°**≈**14'55 evening set -9460 Mar 25 j 08:01 max. Earth dist. -9454 Apr 24 j 01:13 23°≈12'38 31.01215 AU morning rise -9454 May 10 j 22:49 23°≈50'07 conjunction -9460 Apr 10 j 12:28 9°≈50'46 -2°13'28 retrograde -9454 Aug 06 i 05:49 25°≈43'22 -9460 Apr 10 j 12:28 9°≈50'46 2°13'57 opposition -9454 Oct 22 i 01:19 24°≈20'43 -1°56'30 minimum elong max. Earth dist. -9460 Apr 09 j 20:23 9°≈49'16 30.95361 AU min. Earth dist. -9454 Oct 22 j 19:53 24°≈19'25 29.01696 AU -9460 Apr 26 j 14:23 10°≈26'24 -9453 Jan 10 j 05:16 morning rise direct 22° 255'01 -9460 Jul 23 j 09:08 12°≈20'28 -9453 Apr 11 j 08:25 evening set 24°≈52'19 retrograde -9460 Oct 08 j 09:13 10°≈57'23 -2°21'01 opposition -9460 Oct 08 j 23:08 -9453 Apr 27 j 11:46 min. Earth dist. 10°≈56'24 28.96108 AU conjunction 25°≈28'04 -1°46'45 -9460 Dec 26 j 21:11 direct 9°**≈**31'46 -9453 Apr 27 j 11:47 minimum elong 25°≈28'04 1°47'07 -9459 Mar 27 j 21:59 11°≈28'58 max. Earth dist. -9453 Apr 26 j 13:40 25°≈26'01 31.01915 AU evening set 26°**≈**03'31 max. Earth dist. -9459 Apr 12 j 10:35 12°≈03'20 30.96517 AU -9453 May 13 j 11:43 morning rise -9453 Aug 08 j 15:45 retrograde 27°≈56'37 12°**≈**04'48 -2°10'12 -9459 Apr 13 j 02:26 -9453 Oct 24 j 12:03 conjunction opposition 26°≈33'59 -1°51'48 -9459 Apr 13 j 02:27 -9453 Oct 25 j 08:03 minimum elong 12°≈04'49 2°10'40 min. Earth dist. 26°≈32'35 29.02391 AU -9459 Apr 29 j 03:58 morning rise 12°**≈**40′25 direct -9452 Jan 12 j 16:47 25°≈08'15 -9459 Jul 25 j 19:46 retrograde 14°**≈**34'22 evening set -9452 Apr 12 j 21:43 27°≈05'30 -9459 Oct 10 j 19:53 13°≈11'25 -2°17'25 max. Earth dist. -9452 Apr 28 j 02:39 27°≈39'10 31.02627 AU opposition min. Earth dist. -9459 Oct 11 j 10:41 13°≈10'22 28.97247 AU -9459 Dec 29 j 10:55 11°**≈**45'49 conjunction -9452 Apr 29 j 00:54 27°≈41'14 -1°42'16 direct -9458 Mar 30 j 11:54 13°≈43'04 -9452 Apr 29 j 00:55 27°≈41'14 1°42'38 evening set minimum elong -9452 May 15 j 00:30 28°≈16'40 morning rise -9458 Apr 15 j 16:02 14°≈18'54 -2°06'44 -9452 Jul 17 j 12:06 0°) conjunction -9458 Apr 15 j 16:02 14°≈18'54 2°07'12 -9452 Aug 10 j 01:54 0°\(\mathbf{H}\) 09'36 minimum elong retrograde -9458 Apr 14 j 22:07 -9452 Sep 02 j 20:20 max. Earth dist. 14°≈17'14 30.97645 AU 30°R≈ morning rise -9458 May 01 j 17:27 14°≈54'30 opposition -9452 Oct 25 i 22:40 28°≈47'00 -1°46'56 -9458 May 04 i 06:21 15°≈ min. Earth dist. -9452 Oct 26 i 18:37 28°≈45'36 29.03107 AU -9458 Jul 28 i 08:24 retrograde 16°≈48'20 direct -9451 Jan 14 i 05:45 27°≈21'13 opposition -9458 Oct 13 i 06:32 15°≈25'28 -2°13'37 evening set -9451 Apr 15 j 11:00 29°≈18'27 min. Earth dist. -9458 Oct 13 i 21:46 15°≈24'24 28.98343 AU -9458 Oct 28 j 13:06 15°R≈ -9451 May 01 i 13:48 29°≈54'10 -1°37'38 conjunction -9458 Dec 31 j 23:36 13°≈59'53 -9451 May 01 i 13:49 29°≈54'10 1°37'58 direct minimum elong max. Earth dist. -9451 Apr 30 j 14:31 29°≈52'00 31.03385 AU -9457 Mar 04 j 13:09 15°≈ evening set -9457 Apr 02 j 01:44 15°≈57'11 -9451 May 04 j 04:30 0°**)**€ morning rise -9451 May 17 j 13:08 0°\ 29'34 -9451 Aug 12 j 11:52 2°**升**22′22 conjunction -9457 Apr 18 j 05:54 16°≈33'01 -2°03'05 retrograde minimum elong -9457 Apr 18 j 05:55 16°≈33'01 2°03'31 -9451 Oct 28 j 09:26 0° **★**59'48 -1°41'54 opposition -9457 Apr 17 j 12:01 -9451 Oct 29 j 05:55 0°**¥**58'21 29.03916 AU max. Earth dist. 16°≈31'21 30.98695 AU min. Earth dist. -9457 May 04 j 06:54 -9451 Dec 06 j 17:08 morning rise 17°≈08'35 30°R≈ -9457 Jul 30 j 18:51 -9450 Jan 16 j 16:44 29°≈33'59 retrograde 19°≈02'18 direct 0°**)**€ opposition -9457 Oct 15 j 17:13 17°≈39'30 -2°09'37 -9450 Feb 26 j 03:38 min. Earth dist. -9457 Oct 16 j 10:10 17°≈38'19 28.99332 AU evening set -9450 Apr 17 j 23:49 1°**H**31'12 direct -9456 Jan 03 j 12:12 16°≈13'55 max. Earth dist. -9450 May 03 j 04:00 2°**₭**04'47 31.04252 AU evening set -9456 Apr 03 j 15:43 18°≈11'15 conjunction -9450 May 04 j 02:31 2° **★**06'53 -1°32'52 -9456 Apr 19 j 19:35 18°≈47'03 -1°59'15 -9450 May 04 j 02:32 2°\cdot\06'53 1°33'12 conjunction minimum elong -9456 Apr 19 j 19:35 18°≈47'03 1°59'41 -9450 May 20 j 01:23 2°**)** 42′16 minimum elong morning rise

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9450 in astronomical counting style is the year 9451 BCE in historical counting style. -9450 Aug 14 j 20:54 4°**)**(34'57 minimum elong -9443 May 19 i 17:39 17°**)** ₹35'14 0°56'16 retrograde opposition -9450 Oct 30 j 20:12 3°¥12'25 -1°36'44 -9443 May 18 j 15:56 17°**)** 32′50 31.11676 AU max. Earth dist. -9450 Oct 31 j 16:59 3°**升**10'58 29.04826 AU -9443 Jun 04 j 13:47 18°¥10'24 min. Earth dist. morning rise 1°**)** 46′37 20°**₩**02'35 -9449 Jan 19 j 05:52 -9443 Aug 30 j 01:49 direct retrograde -9443 Nov 15 j 00:29 18°¥40'33 -0°57'00 evening set -9449 Apr 20 j 12:52 3°**)** 43′49 opposition -9443 Nov 16 j 00:04 min. Earth dist. 18°**¥**38'55 29.12133 AU 4°**¥**19'29 -1°27'58 conjunction -9449 May 06 j 15:07 direct -9442 Feb 03 j 21:59 17°**米**15'01 -9449 May 06 j 15:08 minimum elong 4°**升**19'29 1°28'16 evening set -9442 May 06 j 05:46 19°**升** 12′13 -9449 May 05 j 15:14 4°**¥**17'16 31.05235 AU max. Earth dist. max. Earth dist. -9442 May 21 j 02:45 19°**¥**45'13 31.12455 AU morning rise -9449 May 22 j 13:48 4° ¥ 54'50 retrograde -9449 Aug 17 j 08:28 6°¥47'25 conjunction -9442 May 22 j 05:33 19°**升**47'43 -0°50'27 -9442 May 22 j 05:33 opposition -9449 Nov 02 j 06:44 5°**¥**24'57 -1°31'25 minimum elong 19°**升**47'43 0°50'37 -9442 Jun 07 j 01:19 min. Earth dist. -9449 Nov 03 j 03:18 5°**¥**23'31 29.05865 AU morning rise 20°**∺**22'52 direct -9448 Jan 21 j 17:16 3°\ 59'11 retrograde -9442 Sep 01 j 11:26 22° ¥ 14'57 evening set -9448 Apr 22 j 01:44 5°\ 56'24 opposition -9442 Nov 17 j 11:33 20°\ 52'57 -0°50'57 max. Earth dist. -9448 May 07 j 04:46 6°**¥**29'54 31.06330 AU min. Earth dist. -9442 Nov 18 j 11:46 20°**升**51'16 29.12872 AU direct -9441 Feb 06 j 09:18 19°**¥**27'24 conjunction -9448 May 08 j 03:52 6°¥32'03 -1°22'56 evening set -9441 May 08 j 18:00 21°**)** 24'33 minimum elong -9448 May 08 j 03:53 6°**)** 32'03 1°23'14 morning rise -9448 May 24 j 02:00 7°**₩**07'22 conjunction -9441 May 24 j 17:30 22°\(\mathbf{H}\)00'01 -0°44'45 retrograde -9448 Aug 18 j 18:20 8°**¥**59'52 minimum elong -9441 May 24 j 17:30 22°\(\)\(00'01\)\(0°44'53\) opposition -9448 Nov 03 j 17:37 7°\(\frac{1}{37'29}\) -1°25'58 max. Earth dist. -9441 May 23 i 15:20 21°\(\overline{4}\)57'35 31.13158 AU min. Earth dist. -9448 Nov 04 i 15:17 7°**升**35'59 29.06987 AU morning rise -9441 Jun 09 j 12:43 22°\(\frac{1}{2}35'08 direct -9447 Jan 23 i 05:20 6°**)**€11'46 retrograde -9441 Sep 03 i 19:32 24°**)** 27'08 evening set -9447 Apr 24 j 14:35 8° **)** 09'00 opposition -9441 Nov 19 j 22:30 23°\(\)\(05'08\)\(-0^\)44'49 -9441 Nov 20 j 23:13 23°**₭**03'25 29.13534 AU min. Earth dist. -9447 May 10 j 16:14 8°\ 44'37 -1°17'46 -9440 Feb 08 j 22:11 conjunction direct 21° ¥ 39'35 -9447 May 10 j 16:14 8°\ 44'37 1°18'02 -9440 May 10 j 06:17 evening set 23°\ 36'41 minimum elong -9447 May 09 j 15:54 8°**)** 42′21 31.07493 AU -9440 May 25 j 01:44 max. Earth dist. max. Earth dist. 24°**₭**09'33 31.13818 AU -9447 May 26 j 14:09 9°**升**19'55 morning rise -9447 Aug 21 j 07:03 -9440 May 26 j 05:10 24°\(\)\(\)\(12'06\)\(-0^38'59\) 11°\(\frac{1}{2}\)12'21 conjunction retrograde -9447 Nov 06 j 04:25 minimum elong -9440 May 26 j 05:10 9°**升**50′04 -1°20′23 24°**H**12'06 0°39'07 opposition -9447 Nov 07 j 01:34 min. Earth dist. -9440 Jun 11 j 00:04 9°**¥**48'36 29.08155 AU 24°**)**(47'11 morning rise -9440 Sep 05 j 06:29 -9446 Jan 25 j 18:56 8° **H** 24'24 26°**)** 39′06 direct retrograde 25°**升**17′06 -0°38′38 -9446 Apr 27 j 03:19 -9440 Nov 21 j 09:34 evening set 10°**₩**21'39 opposition 25°**光**15′25 29.14196 AU -9446 May 12 j 04:47 -9440 Nov 22 j 09:54 max. Earth dist. 10°**¥**55′02 31.08657 AU min. Earth dist. direct -9439 Feb 10 j 09:01 23°**₭**51'32 conjunction -9446 May 13 j 04:45 10°¥57'16 -1°12'30 evening set -9439 May 12 j 18:05 25°**)** 48'34 -9446 May 13 j 04:46 10°**¥**57'16 1°12'46 minimum elong -9446 May 29 j 02:07 11°**)** 32'32 conjunction -9439 May 28 j 16:39 26°**)** £23'57 -0°33'11 morning rise retrograde -9446 Aug 23 j 17:46 13°**)**€24'55 minimum elong -9439 May 28 j 16:39 26°**¥**23'57 0°33'16 -9446 Nov 08 j 15:21 12°\(\frac{1}{2}\)02'42 -1°14'41 max. Earth dist. -9439 May 27 j 14:22 26°**₭**21'30 31.14490 AU opposition -9446 Nov 09 j 14:02 12°**)**€01'07 29.09301 AU -9439 Jun 13 j 10:53 26°**)** 59′00 min. Earth dist. morning rise -9445 Jan 28 j 07:23 10°**)** ₹37'05 -9439 Sep 07 j 15:15 28°**)** 50'51 direct retrograde -9445 Apr 29 j 16:03 12°**)** 34′22 -9439 Nov 23 j 20:47 27°**)** €28'50 -0°32'24 evening set opposition min. Earth dist. -9439 Nov 24 i 21:51 27°**)** 27'06 29.14892 AU 13°**¥**09'56 -1°07'07 conjunction -9445 May 15 j 17:04 direct -9438 Feb 12 i 21:12 26°**)**€03'16 minimum elong -9445 May 15 j 17:04 13°**¥**09'56 1°07'20 evening set -9438 May 15 i 05:59 28°\00'15 max. Earth dist. -9445 May 14 j 16:09 13°**)**€07'37 31.09776 AU max. Earth dist. -9438 May 30 j 00:51 28°**)** 33'04 31.15236 AU -9445 May 31 i 14:10 13°**¥**45′11 morning rise -9445 Aug 26 j 05:03 15°**)** 37'30 -9438 May 31 j 03:53 28°\ 35'36 -0°27'20 retrograde conjunction -9445 Nov 11 j 02:17 14° ¥ 15'22 -1°08'53 -9438 May 31 j 03:54 28°\ 35'36 0°27'26 opposition minimum elong -9445 Nov 12 j 00:32 14°**)** 13'49 29.10359 AU -9438 Jun 15 j 21:48 29°¥10'35 min. Earth dist. morning rise 12°**)** 49'48 $0^{\circ}\Upsilon$ direct -9444 Jan 30 j 21:03 -9438 Jul 10 j 03:07 1° Y 02'24 evening set -9444 May 01 j 04:47 14° **) (**47'04 retrograde -9438 Sep 10 j 02:52 max. Earth dist. -9444 May 16 j 03:53 15°**)** €20'14 31.10778 AU -9438 Nov 14 j 09:34 30°**₹** opposition -9438 Nov 26 j 07:43 29°\ 40'23 -0°26'08 -9444 May 17 j 05:25 15°**¥**22'37 -1°01'38 min. Earth dist. -9438 Nov 27 j 07:43 29°**₭**38'43 29.15687 AU conjunction -9444 May 17 j 05:25 15°**¥**22'37 1°01'51 direct -9437 Feb 15 j 10:35 28° **)** 14'49 minimum elong -9444 Jun 02 j 02:00 $0^{\circ}\Upsilon$ morning rise 15°**)** 57'49 -9437 May 12 j 06:43 -9437 May 17 j 17:39 0°**Y**11'45 retrograde -9444 Aug 27 j 15:30 17°**米**50'05 evening set -9444 Nov 12 j 13:23 16°**¥**28′00 -1°02′59 opposition min. Earth dist. -9444 Nov 13 j 13:00 16°**¥**26′22 29.11307 AU conjunction -9437 Jun 02 j 15:11 0°**Y**47'04 -0°21'27 direct -9443 Feb 01 j 08:46 15°**)**€02'27 minimum elong -9437 Jun 02 j 15:12 0°**Y**47'04 0°21'30 evening set -9443 May 03 j 17:23 16°**)** 59'42 max. Earth dist. -9437 Jun 01 j 13:08 0°**Υ**44'38 31.16083 AU -9437 Jun 18 j 08:27 1°Y22'01 morning rise -9443 May 19 j 17:38 17°**米** 35'14 -0°56'05 -9437 Sep 12 j 12:48 3°Y13'47 conjunction retrograde

	Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 37								
	ical year style is used: Th	-							
opposition	-9437 Nov 28 j 18:58	1° Y 51'48		conjunction	-9431 Jun 15 j 08:41	13° Y 55'19			
min. Earth dist.	-9437 Nov 29 j 19:44		29.16593 AU	minimum elong	-9431 Jun 15 j 08:40	13° Y 55'19	0°14'20		
direct	-9436 Feb 17 j 22:32	0° Υ 26'16		behind sun begin	-9431 Jun 15 j 05:38	13° Y 55′03			
evening set	-9436 May 19 j 05:19	2°Υ23'10	21 15054 177	behind sun end	-9431 Jun 15 j 11:42	13° Y 55'36			
max. Earth dist.	-9436 Jun 03 j 00:06	2°°Y′56'00	31.17054 AU	morning rise	-9431 Jun 30 j 22:46	14° Υ 30'03			
	04261 04:02.15	200050126	0015122	retrograde	-9431 Sep 25 j 02:32	16° Y 21'49	0010117		
conjunction	-9436 Jun 04 j 02:15	2° Y 58'26 2° Y 58'26		opposition	-9431 Dec 11 j 15:20	15° Υ 00'04			
minimum elong	-9436 Jun 04 j 02:15	2° γ '58'26 2° γ '58'18	0°15'36	min. Earth dist.	-9431 Dec 12 j 15:05	14°° Y 38'27	29.22631 AU		
behind sun begin behind sun end	-9436 Jun 04 j 00:43	2° Υ 58'18		direct	-9430 Mar 02 j 23:52 -9430 Jun 02 j 01:59	15° Υ 34'36			
morning rise	-9436 Jun 04 j 03:46 -9436 Jun 19 j 19:05	3° Υ 33'21		evening set	-9430 Jun 02 J 01:39	13 1 31 3/			
retrograde	-9436 Sep 13 j 23:42	5°Υ25'06		conjunction	-9430 Jun 17 j 19:29	16° Ƴ 06'38	0°20'09		
opposition	-9436 Nov 30 j 06:06	4° Υ '03'09	-0°13'30	minimum elong	-9430 Jun 17 j 19:29	16° Υ 06'38			
min. Earth dist.	-9436 Dec 01 j 05:39		29.17604 AU	max. Earth dist.	-9430 Jun 16 j 18:19		31.22958 AU		
direct	-9435 Feb 19 j 11:54	2° Υ 37'41	2).17004 AC	morning rise	-9430 Jul 03 j 08:51	16° Υ 41'20	31.22/30 AU		
evening set	-9435 May 21 j 16:55	4° Υ 34'33		retrograde	-9430 Sep 27 j 11:14	18° Y 33'05			
max. Earth dist.	-9435 Jun 05 j 11:24		31.18111 AU	opposition	-9430 Dec 14 j 02:54	17° Υ 11'21	0°24'35		
max. Earth dist.	7455 Juli 05 j 11.24	3 10722	31.10111710	min. Earth dist.	-9430 Dec 15 j 03:35		29.23334 AU		
conjunction	-9435 Jun 06 j 13:19	5° Y ′09'47	-0°09'38	direct	-9429 Mar 05 j 11:59	15° Υ 46'15	27.23334 AO		
minimum elong	-9435 Jun 06 j 13:19	5° Υ 09'47	0°09'38	evening set	-9429 Jun 04 j 13:17	17° Y 42′52			
behind sun begin	-9435 Jun 06 j 07:57	5° Υ 09'18	0 07 30	max. Earth dist.	-9429 Jun 19 j 03:57		31.23610 AU		
behind sun end	-9435 Jun 06 j 18:40	5° Υ 10'16		max. Earth dist.	7427 Juli 17 J 05.57	10 1324	31.23010710		
morning rise	-9435 Jun 22 j 05:34	5° Υ 44'40		conjunction	-9429 Jun 20 j 06:02	18° Ƴ 17'51	0°26'02		
retrograde	-9435 Sep 16 j 10:42	7° Υ 36'24		minimum elong	-9429 Jun 20 j 06:02	18° Υ 17'50			
opposition	-9435 Dec 02 j 17:27	6° Υ 14'30	-0°07'08	morning rise	-9429 Jul 05 j 18:59	18° Υ 52'29	0 200)		
min. Earth dist.	-9435 Dec 03 j 17:38		29.18699 AU	retrograde	-9429 Sep 29 j 22:33	20° Υ 44'15			
direct	-9434 Feb 21 j 23:50	4° Υ 49'07	27.10077 710	opposition	-9429 Dec 16 j 14:28	19° Υ 22'30	0°30'51		
evening set	-9434 May 24 j 04:17	6° Υ 45'57		min. Earth dist.	-9429 Dec 17 j 14:10		29.23933 AU		
max. Earth dist.	-9434 Jun 07 j 22:50		31.19223 AU	direct	-9428 Mar 07 j 00:30	17° Y 57'25	27.23733 110		
max. Bartii dist.	7131 Juli 07 J 22:30	, , 101,	31.17223710	evening set	-9428 Jun 06 j 00:16	19° Υ 53'59			
conjunction	-9434 Jun 09 j 00:10	7° Ƴ 21'09	-0°03'42	evening sec	7120 Juli 00 j 00:10	17 (333)			
minimum elong	-9434 Jun 09 j 00:10	7° Υ 21'09	0°03'42	conjunction	-9428 Jun 21 j 16:29	20° Y 28'54	0°31'52		
behind sun begin	-9434 Jun 08 j 17:45	7° Υ ′20'34	0 03 .2	minimum elong	-9428 Jun 21 j 16:28	20° Y 28'54			
behind sun end	-9434 Jun 09 j 06:35	7° Υ 21'43		max. Earth dist.	-9428 Jun 20 j 15:19		31.24159 AU		
morning rise	-9434 Jun 24 j 15:54	7° Y 55'59		morning rise	-9428 Jul 07 j 04:42	21°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	31.21103110		
retrograde	-9434 Sep 18 j 20:56	9° Υ '47'43		retrograde	-9428 Oct 01 i 08:24	22° Υ 55'17			
opposition	-9434 Dec 05 j 04:46	8° Υ 25'53	-0°00'46	opposition	-9428 Dec 18 j 02:15	21° Y 33'30	0°37'03		
min. Earth dist.	-9434 Dec 06 j 04:30		29.19795 AU	min. Earth dist.	-9428 Dec 19 j 02:47		29.24462 AU		
asc. node	-9433 Jan 18 j 00:32	7° Υ 21'56	27.17,70110	direct	-9427 Mar 09 j 12:00	20°Υ08'26	27.21.02.110		
direct	-9433 Feb 24 j 13:30	7° Υ ′00'34		evening set	-9427 Jun 08 j 11:13	22°Υ04'56			
evening set	-9433 May 26 j 15:52	8° Y ′57'23		max. Earth dist.	-9427 Jun 23 j 01:39		31.24678 AU		
max. Earth dist.	-9433 Jun 10 j 09:03		31.20299 AU		J				
	,			conjunction	-9427 Jun 24 j 02:43	22° Ƴ 39'48	0°37'38		
conjunction	-9433 Jun 11 j 11:04	9° Y '32'32	0°02'24	minimum elong	-9427 Jun 24 j 02:42	22° Y 39'48	0°37'49		
minimum elong	-9433 Jun 11 j 11:04	9° Y '32'32	0°02'26	morning rise	-9427 Jul 09 j 14:28	23° Y 14'21			
behind sun begin	-9433 Jun 11 j 04:35	9° Y 31'58		retrograde	-9427 Oct 03 j 19:03	25° Y 06′09			
behind sun end	-9433 Jun 11 j 17:32	9° Y ′33'07		opposition	-9427 Dec 20 j 13:51	23° Y 44'21	0°43'12		
morning rise	-9433 Jun 27 j 02:17	10° Y ′07′21		min. Earth dist.	-9427 Dec 21 j 13:02	23° Y 42'46	29.24978 AU		
retrograde	-9433 Sep 21 j 06:54	11° Y 59'05		direct	-9426 Mar 12 j 01:23	22° Y 19'18			
opposition	-9433 Dec 07 j 16:06	10° Ƴ 37'18	0°05'36	evening set	-9426 Jun 10 j 21:51	24° Y 15'43			
min. Earth dist.	-9433 Dec 08 j 16:07	10° Ƴ 35'39	29.20849 AU						
direct	-9432 Feb 27 j 00:23	9° Y 12'03		conjunction	-9426 Jun 26 j 12:44	24° Y 50'33	0°43'22		
evening set	-9432 May 28 j 03:19	11° Y ′08'50		minimum elong	-9426 Jun 26 j 12:43	24° Y 50'33	0°43'32		
				max. Earth dist.	-9426 Jun 25 j 12:05	24° Y 48'14	31.25198 AU		
conjunction	-9432 Jun 12 j 22:02	11° Y ′43'57	0°08'20	morning rise	-9426 Jul 11 j 23:52	25° Y 25′03			
minimum elong	-9432 Jun 12 j 22:03	11° Y '43'57	0°08'22	retrograde	-9426 Oct 06 j 06:01	27° Y 16'52			
behind sun begin	-9432 Jun 12 j 16:21	11° Y 43'26		opposition	-9426 Dec 23 j 01:36	25° Ƴ 55′03	0°49'17		
behind sun end	-9432 Jun 13 j 03:44	11° Y ′44'27		min. Earth dist.	-9426 Dec 24 j 01:01		29.25535 AU		
max. Earth dist.	-9432 Jun 11 j 21:00		31.21305 AU	direct	-9425 Mar 14 j 13:40	24° Y 30'02			
morning rise	-9432 Jun 28 j 12:34	12° Y 18'43		evening set	-9425 Jun 13 j 08:29	26° Ƴ 26'24			
retrograde	-9432 Sep 22 j 15:23	14° Y 10'27							
opposition	-9432 Dec 09 j 03:45	12° Y ′48'42		conjunction	-9425 Jun 28 j 22:44	27° Y 01'11	0°49'01		
min. Earth dist.	-9432 Dec 10 j 04:02		29.21796 AU	minimum elong	-9425 Jun 28 j 22:44	27° Ƴ 01'11	0°49'14		
direct	-9431 Feb 28 j 13:12	11° Y 23'31		max. Earth dist.	-9425 Jun 27 j 23:10		31.25787 AU		
evening set	-9431 May 30 j 14:44	13° Y 20′16		morning rise	-9425 Jul 14 j 09:15	27° Ƴ 35'39			
max. Earth dist.	-9431 Jun 14 j 06:31	13° Y 52'53	31.22194 AU	retrograde	-9425 Oct 08 j 15:54	29° Y 27'30			
				opposition	-9425 Dec 25 j 13:15	28° Y 05'41	0°55'18		

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 38 Attention, astronomical year style is used: The year -9425 in astronomical counting style is the year 9426 BCE in historical counting style.								
min. Earth dist.	-9425 Dec 26 j 11:37		29.26159 AU	conjunction	-9418 Jul 13 j 18:56	12° 8 16'27 1°26'13		
direct	-9424 Mar 16 j 03:36	26° Y '40'43		minimum elong	-9418 Jul 13 j 18:55	12° 8 16'27 1°26'32		
evening set	-9424 Jun 14 j 19:09	28° Ƴ 37′02		max. Earth dist.	-9418 Jul 12 j 22:46	12° 8 14'33 31.30660 AU		
max. Earth dist.	-9424 Jun 29 j 08:59	29° 'Y' 09'33	31.26457 AU	morning rise	-9418 Jul 29 j 01:26	12° 8 50'39		
				retrograde	-9418 Oct 23 j 14:53	14° 8 43'04		
conjunction	-9424 Jun 30 j 08:37	29° Ƴ 11'45	0°54'36	opposition	-9417 Jan 10 j 01:32	13° 8 21'20 1°34'41		
minimum elong	-9424 Jun 30 j 08:36	29° Ƴ 11'45	0°54'49	min. Earth dist.	-9417 Jan 10 j 20:31	13° 8 20'03 29.30926 AU		
morning rise	-9424 Jul 15 j 18:36	29° Ƴ 46'11		direct	-9417 Apr 01 j 11:57	11° 8 56'54		
	-9424 Jul 22 j 03:41	$_{0\circ}$ 8		evening set	-9417 Jun 30 j 19:42	13° 8 52'53		
retrograde	-9424 Oct 10 j 01:56	1° 8 38'06		max. Earth dist.	-9417 Jul 15 j 08:25	14° 8 25'23 31.30970 AU		
opposition	-9424 Dec 27 j 01:06	0° ප 16'17	1°01'14		,			
min. Earth dist.	-9424 Dec 27 j 22:55		29.26890 AU	conjunction	-9417 Jul 16 j 04:32	14° 8 27'16 1°31'05		
	-9423 Jan 06 j 01:48	30°R Ƴ		minimum elong	-9417 Jul 16 j 04:31	14° 8 27'16 1°31'27		
direct	-9423 Mar 18 j 14:18	28° Y ′51'24		minimum viong	-9417 Jul 30 j 18:51	15°8		
direct	-9423 May 25 j 00:32	0°8		morning rise	-9417 Jul 31 j 10:27	15° 8 01'26		
avanina aat	-9423 Jun 17 j 05:27	0° 8 47'41		-	3	16° 8 53'55		
evening set	-9423 Juli 1/J 03.27	0 04/41		retrograde	-9417 Oct 26 j 02:36			
				opposition	-9416 Jan 12 j 13:50	15° 8 32'08 1°39'50		
conjunction	-9423 Jul 02 j 18:24	1° 8 22'21	1°00'07	min. Earth dist.	-9416 Jan 13 j 09:13	15° 8 30'50 29.31180 AU		
minimum elong	-9423 Jul 02 j 18:24	1° 8 22'21	1°00'21		-9416 Feb 01 j 21:07	15°R 8		
max. Earth dist.	-9423 Jul 01 j 20:32		31.27223 AU	direct	-9416 Apr 02 j 23:56	14° 8 07'44		
morning rise	-9423 Jul 18 j 03:41	1° 8 56'45			-9416 May 31 j 04:56	15° 8		
retrograde	-9423 Oct 12 j 10:14	3° 8 48'43		evening set	-9416 Jul 02 j 05:49	16° 8 03'38		
opposition	-9423 Dec 29 j 13:03	2° 8 26'57	1°07'04					
min. Earth dist.	-9423 Dec 30 j 10:28	2° 8 25'30	29.27682 AU	conjunction	-9416 Jul 17 j 14:05	16° 8 37'58 1°35'50		
direct	-9422 Mar 21 j 03:11	1° 8 02'10		minimum elong	-9416 Jul 17 j 14:04	16° 8 37'58 1°36'12		
evening set	-9422 Jun 19 j 15:59	2° 8 58'24		max. Earth dist.	-9416 Jul 16 j 19:00	16° 8 36'11 31.31156 AU		
max. Earth dist.	-9422 Jul 04 j 05:47	3°₩30'56	31.28035 AU	morning rise	-9416 Aug 01 j 19:25	17° 8 12'05		
	,			retrograde	-9416 Oct 27 j 12:41	19° 8 04'38		
conjunction	-9422 Jul 05 j 04:07	3° 8 33'02	1°05'32	opposition	-9415 Jan 14 j 02:12	17° 8 42'48 1°44'49		
minimum elong	-9422 Jul 05 j 04:06	3° 8 33'02		min. Earth dist.	-9415 Jan 14 j 20:38	17° 8 41'33 29.31307 AU		
Č	-9422 Jul 03 j 04:00	4° 8 07'23	1 0347		-9415 Apr 05 j 13:49	16° 8 18'24		
morning rise	,	5° 8 59'26		direct				
retrograde	-9422 Oct 14 j 21:41	_	1010140	evening set	-9415 Jul 04 j 15:46	18° 8 14'12		
opposition	-9421 Jan 01 j 00:46	4° 8 37'42						
min. Earth dist.	-9421 Jan 01 j 21:09	_	29.28506 AU	conjunction	-9415 Jul 19 j 23:17	18° 8 48'30 1°40'26		
direct	-9421 Mar 23 j 13:28	3° 8 13'00		minimum elong	-9415 Jul 19 j 23:16	18° 8 48'30 1°40'50		
evening set	-9421 Jun 22 j 02:21	5° 8 09'13		max. Earth dist.	-9415 Jul 19 j 04:02	18° 8 46'41 31.31237 AU		
				morning rise	-9415 Aug 04 j 04:14	19° 8 22'34		
conjunction	-9421 Jul 07 j 13:58	5° 8 43'48	1°10'52	retrograde	-9415 Oct 29 j 23:11	21° 8 15'11		
minimum elong	-9421 Jul 07 j 13:57	5° ႘ 43'48	1°11'09	opposition	-9414 Jan 16 j 14:33	19° 8 53'16 1°49'40		
max. Earth dist.	-9421 Jul 06 j 17:06	5° 8 41'50	31.28834 AU	min. Earth dist.	-9414 Jan 17 j 08:30	19° 8 52'03 29.31374 AU		
morning rise	-9421 Jul 22 j 22:05	6° 8 18'07		direct	-9414 Apr 08 j 01:08	18° 8 28'53		
retrograde	-9421 Oct 17 j 06:20	8° 8 10'16		evening set	-9414 Jul 07 j 01:34	20° 8 24'35		
opposition	-9420 Jan 03 j 12:55	6° 8 48'33	1°18'28	C	,			
min. Earth dist.	-9420 Jan 04 j 09:48		29.29282 AU	conjunction	-9414 Jul 22 j 08:37	20° 8 58'50 1°44'53		
direct	-9420 Mar 25 j 01:17	5° 8 23'57	27.27202110	minimum elong	-9414 Jul 22 j 08:36	20° 8 58'50 1°45'17		
evening set	-9420 Jun 23 j 12:47	7° 8 20'07		max. Earth dist.	-9414 Jul 21 j 15:11	20°857'12 31.31277 AU		
evening set	-)+20 Juli 25 j 12.+/	7 02007		morning rise	-9414 Aug 06 j 12:54	21° 8 32'52		
	0420 I-1 00:22.22	70 4120	1°16'06	-	0 3			
conjunction	-9420 Jul 08 j 23:33	7° 8 54'39 7° 8 54'39	1°16'06 1°16'23	retrograde	-9414 Nov 01 j 07:40	23° 8 25'33 22° 8 03'34 1°54'21		
minimum elong	-9420 Jul 08 j 23:32			opposition	-9413 Jan 19 j 02:45			
max. Earth dist.	-9420 Jul 08 j 02:18		31.29568 AU	min. Earth dist.	-9413 Jan 19 j 20:12	22° 8 02'23 29.31415 AU		
morning rise	-9420 Jul 24 j 07:13	8° 8 28'56		direct	-9413 Apr 10 j 15:01	20° 8 39'12		
retrograde	-9420 Oct 18 j 17:33	10° 8 21'11		evening set	-9413 Jul 09 j 11:26	22° 8 34'48		
opposition	-9419 Jan 05 j 01:03	8° 8 59'29	1°24'00					
min. Earth dist.	-9419 Jan 05 j 20:36		29.29969 AU	conjunction	-9413 Jul 24 j 17:41	23° 8 09'00 1°49'12		
direct	-9419 Mar 27 j 12:30	7° 8 34'57		minimum elong	-9413 Jul 24 j 17:40	23° 8 09'00 1°49'37		
evening set	-9419 Jun 25 j 23:08	9° 8 31'04		max. Earth dist.	-9413 Jul 24 j 00:05	23° 8 07'21 31.31331 AU		
				morning rise	-9413 Aug 08 j 21:38	23° 8 43'00		
conjunction	-9419 Jul 11 j 09:20	10° 8 05'33	1°21'13	retrograde	-9413 Nov 03 j 18:57	25° 8 35'46		
minimum elong	-9419 Jul 11 j 09:20	10° 8 05'33	1°21'32	opposition	-9412 Jan 21 j 15:04	24° 8 13'43 1°58'52		
max. Earth dist.	-9419 Jul 10 j 13:01		31.30179 AU	min. Earth dist.	-9412 Jan 22 j 06:55	24° 8 12'39 29.31510 AU		
morning rise	-9419 Jul 26 j 16:19	10° 8 39'48	21.50177710	direct	-9412 Apr 12 j 02:16	22° 8 49'23		
retrograde	-9419 Oct 21 j 03:47	12° 8 32'09		evening set	-9412 Jul 10 j 20:57	24° 8 44'54		
opposition	,	12 8 32 09	1020124	max. Earth dist.	-	25° 8 17'35 31.31448 AU		
	-9418 Jan 07 j 13:20			max. Earm dist.	-9412 Jul 25 j 11:05	23 O 1733 31.31448 AU		
min. Earth dist.	-9418 Jan 08 j 09:38		29.30527 AU		0410 1 1 26:00 15	250 10104 1050100		
direct	-9418 Mar 29 j 22:32	9° 8 45'57		conjunction	-9412 Jul 26 j 02:45	25° 8 19'04 1°53'20		
evening set	-9418 Jun 28 j 09:26	11° 8 42'00		minimum elong	-9412 Jul 26 j 02:44	25° 8 19'03 1°53'45		
				morning rise	-9412 Aug 10 j 06:02	25° 8 53'02		

Planetary Phenomena of Neptune from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9412 in astronomical counting style is the year 9413 BCE in historical counting style. -9412 Nov 05 i 03:16 27°845'54 evening set -9405 Jul 26 j 15:27 9°**I**57'39 retrograde -9411 Jan 23 j 03:35 26°**8**23'48 2°03'13 opposition min. Earth dist. -9411 Jan 23 j 19:14 26°**8**22'45 29.31676 AU -9405 Aug 10 j 17:38 10°**I**I31'34 2°17'33 conjunction 24°**8**59'32 -9405 Aug 10 j 17:37 10°**耳**31'34 2°18'04 -9411 Apr 14 j 14:12 minimum elong direct 10°**耳**30'39 31.32716 AU -9411 Jul 13 j 06:37 26°**8**54'59 -9405 Aug 10 j 07:46 evening set max. Earth dist. -9405 Aug 25 j 18:12 morning rise 11°**I**I05′23 -9411 Jul 28 j 11:43 27°**8**29'06 1°57'19 -9405 Nov 21 j 08:43 12°**Ⅲ**59'13 conjunction retrograde -9411 Jul 28 j 11:42 27°**8**29'06 -9404 Feb 08 j 19:46 11°**Ⅲ**37′00 minimum elong 1°57'46 opposition 2°28'25 min. Earth dist. -9404 Feb 09 j 05:50 max. Earth dist. -9411 Jul 27 j 20:22 27°**8**27'39 31.31660 AU 11°**Ⅲ**36'19 29.32807 AU morning rise -9411 Aug 12 j 14:42 28°**8**03'02 direct -9404 Apr 29 j 22:52 10°**Ⅲ**13'16 retrograde -9411 Nov 07 j 14:10 29°**8**56'01 evening set -9404 Jul 28 j 00:51 12°**Ⅱ**08′20 -9410 Jan 25 j 15:50 28°**8**33'55 2°07'23 opposition -9410 Jan 26 j 05:31 -9404 Aug 12 j 02:26 min. Earth dist. 28°**8**33'00 29.31934 AU conjunction 12°**I**42'14 2°20'15 direct -9410 Apr 17 j 00:48 27°**8**09'43 minimum elong -9404 Aug 12 j 02:25 12°**耳**42'13 2°20'46 evening set -9410 Jul 15 j 16:05 29°**8**05'07 max. Earth dist. -9404 Aug 11 j 16:14 12°**Д**41'16 31.32508 AU morning rise -9404 Aug 27 j 02:53 13°**Ⅱ**16'01 conjunction -9410 Jul 30 j 20:43 29°839'12 2°01'09 retrograde -9404 Nov 22 j 20:58 15°**Ⅱ**09'58 minimum elong -9410 Jul 30 j 20:43 29°839'12 2°01'36 opposition -9403 Feb 10 j 08:35 13°**耳**47'41 2°31'12 max. Earth dist. -9410 Jul 30 j 06:46 29°**8**37'53 31.31935 AU min. Earth dist. -9403 Feb 10 j 17:16 13°**Д**47'06 29.32545 AU -9410 Aug 09 j 01:55 $0^{\circ}\Pi$ direct -9403 May 02 j 10:26 12°**Ⅲ**23'58 morning rise -9410 Aug 14 j 23:13 0°**I**13'07 evening set -9403 Jul 30 j 10:04 14°**Ⅱ**18'57 retrograde -9410 Nov 10 i 00:35 2°**Ⅱ**06'14 opposition -9409 Jan 28 i 04:21 0°**I**44'07 2°11'23 conjunction -9403 Aug 14 i 11:26 14°**I**52'48 2°22'46 min. Earth dist. -9409 Jan 28 i 18:12 0°**Д**43'11 29.32236 AU minimum elong -9403 Aug 14 i 11:25 14°**I**52'48 2°23'19 -9409 Feb 25 j 21:05 30°R8 max. Earth dist. -9403 Aug 14 j 02:49 14°**Д**51'59 31.32180 AU -9409 Apr 19 j 10:17 29°820'01 -9403 Aug 29 j 11:31 15°**Ⅲ**26'35 direct morning rise -9409 Jun 08 j 20:01 $0^{\circ}II$ -9403 Nov 25 j 05:11 17°**Ⅲ**20′38 retrograde -9409 Jul 18 j 01:33 1°**Ⅱ**15'22 -9402 Feb 12 j 21:21 15°**I**I58'16 2°33'47 opposition evening set -9402 Feb 13 j 06:08 15°**Д**57'40 29.32180 AU min. Earth dist. 1°**Ⅱ**49'25 2°04'47 -9409 Aug 02 j 05:36 -9402 May 04 j 22:42 14°**∏**34'34 conjunction direct 16°**Ⅱ**29'26 -9409 Aug 02 j 05:36 1°**II**49'25 2°05'16 -9402 Aug 01 j 19:16 minimum elong evening set -9409 Aug 01 j 16:34 max. Earth dist. 1°**Ⅲ**48'11 31.32241 AU -9409 Aug 17 j 07:41 2°**Ⅲ**23'19 -9402 Aug 16 j 20:11 17°**I**03'16 2°25'04 conjunction morning rise -9409 Nov 12 j 11:51 4°**Ⅱ**16'35 -9402 Aug 16 j 20:10 17°**Ⅲ**03'16 2°25'37 retrograde minimum elong -9402 Aug 16 j 11:53 2°**耳**54'28 2°15'11 -9408 Jan 30 j 16:48 17°**Ⅲ**02'29 31.31789 AU opposition max. Earth dist. 2°**Д**53'40 29.32533 AU -9408 Jan 31 j 04:50 -9402 Aug 31 j 20:09 17°**Ⅲ**37′02 min. Earth dist. morning rise -9408 Apr 20 j 22:40 -9402 Nov 27 j 15:37 19°**Ⅲ**31'10 direct 1°**Ⅲ**30′27 retrograde evening set -9408 Jul 19 j 11:05 3°**Ⅲ**25'47 opposition -9401 Feb 15 j 10:02 18°**耳**08'43 2°36'09 min. Earth dist. -9401 Feb 15 j 16:52 18°**Ⅲ**08'15 29.31777 AU conjunction -9408 Aug 03 j 14:34 3°II59'47 2°08'15 direct -9401 May 07 j 10:03 16°**Ⅱ**45'01 -9408 Aug 03 j 14:33 3°II59'47 2°08'44 -9401 Aug 04 j 04:15 18°**Ⅲ**39'46 minimum elong evening set -9408 Aug 03 j 01:56 3°**Ц**58'35 31.32510 AU max. Earth dist. -9408 Aug 18 j 16:18 4°**Ⅲ**33'39 -9401 Aug 19 j 04:51 19°**Ⅱ**13'35 2°27'10 morning rise conjunction -9408 Nov 14 j 00:32 6°**Ⅲ**27′05 -9401 Aug 19 j 04:50 19°**Ⅱ**13'35 2°27'44 retrograde minimum elong -9407 Feb 01 j 05:34 5°**I**04'58 2°18'47 max. Earth dist. -9401 Aug 18 j 21:55 19°**Ⅲ**12'56 31.31375 AU opposition -9407 Feb 01 i 17:34 5°**Д**04'09 29.32788 AU -9401 Sep 03 i 04:34 19°**Ⅱ**47'20 min. Earth dist. morning rise 3°**Ⅱ**41′02 -9401 Nov 30 j 01:44 direct -9407 Apr 23 i 09:13 retrograde 21°**Ⅱ**41'36 -9407 Jul 21 i 20:26 5°**Ⅱ**36'19 -9400 Feb 17 i 22:55 20°**I**19'03 2°38'17 evening set opposition min. Earth dist. -9400 Feb 18 i 05:41 20°**Ⅱ**18'35 29.31395 AU -9407 Aug 05 j 23:32 6°II10'18 2°11'32 direct -9400 May 08 i 20:08 18°**Ⅲ**55'22 conjunction -9407 Aug 05 j 23:31 6°II10'17 2°12'03 -9400 Aug 05 j 13:16 20°II50'01 minimum elong evening set -9407 Aug 05 j 12:19 6°**Д**09'14 31.32712 AU max. Earth dist. -9407 Aug 21 j 00:48 6°**Ⅱ**44′08 -9400 Aug 20 j 13:34 21°II23'48 2°29'04 morning rise conjunction 21°**II**23'48 2°29'37 retrograde -9407 Nov 16 j 11:21 8°II37'43 minimum elong -9400 Aug 20 j 13:33 opposition -9406 Feb 03 j 18:15 7°**I**15'35 2°22'12 max. Earth dist. -9400 Aug 20 j 07:59 21°**Д**23'16 31.31029 AU -9400 Sep 04 j 13:05 min. Earth dist. -9406 Feb 04 j 05:11 7°**I**14'51 29.32931 AU morning rise 21°**Ⅲ**57'32 5°**Ⅱ**51'44 -9406 Apr 25 j 21:58 retrograde -9400 Dec 01 j 12:39 23°**I**51'55 direct

-9399 Feb 19 j 11:40

-9399 Feb 19 j 16:08

-9399 May 11 j 08:16

-9399 Aug 07 j 22:11

-9399 Aug 22 j 22:09

-9399 Aug 22 j 22:08

-9399 Aug 22 j 17:14

-9399 Sep 06 j 21:38

-9399 Dec 04 j 01:04

opposition

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

direct

min. Earth dist.

22°**I**129'17 2°40'11

23°**II**33'58 2°30'45

23°**Ⅲ**33'30 31.30767 AU

2°31'19

21°**I**05'39

23°**Ⅲ**00′12

23°**Ⅲ**33'58

24°**Ⅱ**07'42

26°**Ⅲ**02'13

22°**Ц**28'59 29.31092 AU

-9406 Jul 24 j 06:02

-9406 Aug 08 j 08:30

-9406 Aug 08 j 08:29

-9406 Aug 07 j 20:59

-9406 Aug 23 j 09:34

-9406 Nov 18 j 22:58

-9405 Feb 06 j 06:53

-9405 Feb 06 j 17:22

-9405 Apr 28 j 08:49

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition

direct

min. Earth dist.

7°**Ⅱ**46'58

8°**I**I54'44

10°**Ⅲ**48′27

8°II02'30

8°**II**20'54 2°14'38

8°**II**20'54 2°15'08

9°**II**26'17 2°25'25

8°**Ⅱ**19'49 31.32783 AU

9°**Д**25'34 29.32948 AU