•	omena of Neptune f		-				page 1
	ical year style is used: Th	-	in astronomical cou				
retrograde	-5900 Mar 24 j 00:21	6°M₅53'05	20.01.505.111	conjunction	-5895 Dec 21 j 00:04	17°M37'53	
min. Earth dist.	-5900 Jun 12 j 02:48		29.01587 AU	minimum elong	-5895 Dec 21 j 00:04	17°M37'53	0°03'15
opposition direct	-5900 Jun 13 j 00:43 -5900 Aug 30 j 04:08	5°M28'12 4°M05'34	0°28'47	behind sun begin behind sun end	-5895 Dec 20 j 17:38 -5895 Dec 21 j 06:30	17°M37'18 17°M38'28	
evening set	-5900 Nov 24 j 04:19	5°M57'45		max. Earth dist.	-5895 Dec 21 j 00:50		30.96226 AU
evening set	-3900 NOV 24 J 04.19	3 1163743		morning rise	-5894 Jan 05 j 18:18	18°ML13'20	30.90220 AO
conjunction	-5900 Dec 09 j 16:02	6°MJ32'36	0°24'20	retrograde	-5894 Apr 07 j 05:33	20°M12'03	
minimum elong	-5900 Dec 09 j 16:02	6°M32'36	0°24'08	min. Earth dist.	-5894 Jun 26 j 02:53		28.95915 AU
max. Earth dist.	-5900 Dec 10 j 14:44	6°M34'45	31.00963 AU	opposition	-5894 Jun 27 j 03:44	18° M 46'48	-0°06'10
morning rise	-5900 Dec 25 j 07:24	7°ML07'50		direct	-5894 Sep 12 j 22:25	17°M24'02	
retrograde	-5899 Mar 26 j 11:00	9° ™ 06'17		evening set	-5894 Dec 07 j 20:48	19° M .16'10	
opposition	-5899 Jun 15 j 13:28	7° M 41'18	0°23'02				
min. Earth dist.	-5899 Jun 14 j 15:43		29.00410 AU	conjunction	-5894 Dec 23 j 11:36	19°M51'16	
direct	-5899 Sep 01 j 15:01	6°M18'37		minimum elong	-5894 Dec 23 j 11:36	19°M51'16	0°08'45
evening set	-5899 Nov 26 j 14:50	8°M10'45		behind sun begin	-5894 Dec 23 j 06:00	19°M50'45	
conjunction	-5899 Dec 12 j 03:06	8° ጤ 45'39	0°18'56	behind sun end max. Earth dist.	-5894 Dec 23 j 17:12 -5894 Dec 24 j 12:43	19°M51'46	30.95559 AU
minimum elong	-5899 Dec 12 j 03:06	8°M45'39	0°18'44	morning rise	-5893 Jan 08 j 06:33	20°M26'46	30.93339 AO
max. Earth dist.	-5899 Dec 13 j 02:07		30.99820 AU	retrograde	-5893 Apr 09 j 20:17	22°M25'33	
morning rise	-5899 Dec 27 j 19:05	9°M20'55	30.99020110	opposition	-5893 Jun 29 j 16:03	21°ML00'18	-0°12'02
retrograde	-5898 Mar 29 j 00:36	11° M 19'24		min. Earth dist.	-5893 Jun 28 j 15:26	21°M02'00	28.95271 AU
min. Earth dist.	-5898 Jun 17 j 02:44	9°M55'56	28.99303 AU	direct	-5893 Sep 15 j 09:08	19°M37'33	
opposition	-5898 Jun 18 j 01:54	9° M 54′20	0°17'14	evening set	-5893 Dec 10 j 07:58	21°M29'43	
direct	-5898 Sep 04 j 01:09	8°M31'35					
evening set	-5898 Nov 29 j 01:29	10°M23'42		conjunction	-5893 Dec 25 j 23:24	22°M04'52	-0°13'56
				minimum elong	-5893 Dec 25 j 23:24	22°M04'52	0°14'12
conjunction	-5898 Dec 14 j 14:13	10°M58'38	0°13'31	behind sun begin	-5893 Dec 25 j 20:17	22°M04'35	
minimum elong	-5898 Dec 14 j 14:13	10°M58'38	0°13'17	behind sun end	-5893 Dec 26 j 02:32	22°M05'09	20.04011.411
behind sun begin	-5898 Dec 14 j 10:26	10°M58'17		max. Earth dist.	-5893 Dec 27 j 01:49		30.94911 AU
behind sun end max. Earth dist.	-5898 Dec 14 j 18:00 -5898 Dec 15 j 13:42	10°M58'58	30.98748 AU	morning rise retrograde	-5892 Jan 10 j 18:44 -5892 Apr 11 j 08:43	22°M40'24 24°M39'16	
morning rise	-5898 Dec 30 j 06:50	11°M33'56	30.98748 AU	min. Earth dist.	-5892 Jun 30 j 03:44		28.94614 AU
retrograde	-5897 Mar 31 j 12:50	13°M32'29		opposition	-5892 Jul 01 j 04:25	23°M14'02	
opposition	-5897 Jun 20 j 14:29	12°M07'20	0°11'24	direct	-5892 Sep 16 j 21:07	21°M51'18	
min. Earth dist.	-5897 Jun 19 j 15:48	12°M08'54	28.98289 AU	evening set	-5892 Dec 11 j 19:18	23°M43'29	
direct	-5897 Sep 06 j 11:41	10°ML44'34					
evening set	-5897 Dec 01 j 12:01	12°M36'39		conjunction	-5892 Dec 27 j 11:09	24°M18'41	-0°19'23
				minimum elong	-5892 Dec 27 j 11:09	24°M18'41	0°19'40
conjunction	-5897 Dec 17 j 01:23	13° ™ 11'37		max. Earth dist.	-5892 Dec 28 j 12:48		30.94241 AU
minimum elong	-5897 Dec 17 j 01:23	13°M11'37	0°07'51	morning rise	-5891 Jan 12 j 07:08	24°M54'16	
behind sun begin	-5897 Dec 16 j 19:34	13°M11'06		retrograde	-5891 Apr 13 j 22:28	26°M53'12	0000110
behind sun end max. Earth dist.	-5897 Dec 17 j 07:12 -5897 Dec 18 j 02:01	13°M12'09	30.97796 AU	opposition min. Earth dist.	-5891 Jul 03 j 16:51 -5891 Jul 02 j 15:59	25°M27'57	-0°23'42 28.93915 AU
morning rise	-5896 Jan 01 j 18:28	13°M46'58	30.97790 AU	direct	-5891 Sep 19 j 07:37	24°M05'13	26.93913 AU
morning rise	-5896 Feb 08 j 02:16	15°M		evening set	-5891 Dec 14 j 06:56	25°M57'27	
retrograde	-5896 Apr 02 j 02:46	15°M45'34		<i>3</i>	,		
C	-5896 May 28 j 04:53	15°RM		conjunction	-5891 Dec 29 j 23:19	26°M32'41	-0°24'49
min. Earth dist.	-5896 Jun 21 j 02:36	14°ML22'02	28.97390 AU	minimum elong	-5891 Dec 29 j 23:19	26°M32'41	0°25'06
opposition	-5896 Jun 22 j 02:51	14°M20'22	0°05'34	max. Earth dist.	-5891 Dec 31 j 01:25	26°M35'08	30.93484 AU
direct	-5896 Sep 07 j 23:55	12°M57'35		morning rise	-5890 Jan 14 j 19:45	27°M08'18	
evening set	-5896 Dec 02 j 22:51	14°M49'40		retrograde	-5890 Apr 16 j 09:51	29°M07'18	
	-5896 Dec 07 j 14:28	15° ™		min. Earth dist.	-5890 Jul 05 j 05:05		28.93113 AU
	500 CD 10:10 0 C	1.50M 0.441	000010	opposition	-5890 Jul 06 j 05:07	27°M42'02	-0°29'30
conjunction	-5896 Dec 18 j 12:36	15°M24'41	0°02'36	direct	-5890 Sep 21 j 18:20	26°M19'16	
minimum elong behind sun begin	-5896 Dec 18 j 12:35 -5896 Dec 18 j 06:08	15°M24'41 15°M24'06	0°02'22	evening set	-5890 Dec 16 j 18:38	28°M11'32	
behind sun begin	-5896 Dec 18 j 19:03	15°M25'16		conjunction	-5889 Jan 01 j 11:34	28°M46'48	-0°30'13
max. Earth dist.	-5896 Dec 19 j 13:00		30.96955 AU	minimum elong	-5889 Jan 01 j 11:34	28°M46'48	
morning rise	-5895 Jan 03 j 06:24	16°M00'05		max. Earth dist.	-5889 Jan 02 j 13:08		30.92639 AU
retrograde	-5895 Apr 04 j 16:35	17° M .58'44		morning rise	-5889 Jan 17 j 08:31	29°M22'28	
desc. node	-5895 Jun 06 j 01:02	17° ™ 03'39		-	-5889 Feb 04 j 02:59	0° ∡ ¹	
opposition	-5895 Jun 24 j 15:23	16° ™ 33'30	-0°00'18	retrograde	-5889 Apr 19 j 00:06	1° ∡ 21′29	
min. Earth dist.	-5895 Jun 23 j 15:35		28.96613 AU		-5889 Jul 06 j 10:22	30°RM	
direct	-5895 Sep 10 j 10:05	15° ™ 10'43		opposition	-5889 Jul 08 j 17:21	29°M56'11	
evening set	-5895 Dec 05 j 09:36	17° ™ 02'49		min. Earth dist.	-5889 Jul 07 j 16:38	29°M57'54	28.92217 AU

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5889 in astronomical counting style is the year 5890 BCE in historical counting style. direct -5889 Sep 24 i 04:37 28°MJ33'22 morning rise -5882 Feb 02 i 02:43 15°**х** 01′25 -5889 Dec 07 j 06:50 0°×7 -5882 May 04 j 21:22 17°**х** 00′29 retrograde -5889 Dec 19 j 06:23 0°**∡**¹25'40 -5882 Jul 23 j 04:20 15°**₰**36'38 28.86900 AU min. Earth dist. evening set -5882 Jul 24 j 04:52 15°**∡**34'55 -1°13'32 opposition -5882 Oct 09 j 12:56 14°**∡**11'45 conjunction -5888 Jan 03 j 23:42 1°**х** 00′57 -0°35′34 direct -5888 Jan 03 j 23:41 -5881 Jan 03 j 18:51 16°**х** 04′20 minimum elong 1°**х** 00′57 0°35′52 evening set -5888 Jan 05 j 01:04 max. Earth dist. 1°**∡**03'21 30.91691 AU -5881 Jan 19 j 15:26 morning rise -5888 Jan 19 j 21:10 1°**х** 36′39 conjunction 16°**₹**39'51 -1°11'06 3°**∡**³35'42 -5881 Jan 19 j 15:25 retrograde -5888 Apr 20 j 11:41 minimum elong 16°**∡** 39'51 1°11'27 min. Earth dist. -5888 Jul 09 j 06:02 2°**҂**11'59 28.91248 AU max. Earth dist. -5881 Jan 20 j 17:53 16°**∡**′42'20 30.86654 AU opposition -5888 Jul 10 j 05:38 2°**∡**10'20 -0°40'57 morning rise -5881 Feb 04 j 15:55 17°**∡**15'44 0°**∡**¹47'28 -5881 May 07 j 09:40 direct -5888 Sep 25 j 15:24 retrograde 19°**х** 14'49 -5888 Dec 20 j 18:07 2°**х¹**39'47 -5881 Jul 26 j 16:40 evening set opposition 17°**∡**¹49'17 -1°18'38 min. Earth dist. -5881 Jul 25 j 16:53 17°**₹**50'57 28.86589 AU conjunction -5887 Jan 05 j 12:02 3°**₹**15'06 -0°40'52 direct -5881 Oct 12 j 00:06 16°**х** 26′07 minimum elong -5887 Jan 05 j 12:02 3°**х** 15′06 0°41'11 evening set -5880 Jan 06 j 07:18 18°**∡**18'47 max. Earth dist. -5887 Jan 06 j 13:56 3°**҂**17'32 30.90717 AU morning rise -5887 Jan 21 j 09:55 3°**х** 50'49 conjunction -5880 Jan 22 j 04:17 18°**≯**54'19 -1°15'49 retrograde -5887 Apr 23 j 01:14 5°**х¹**49'53 minimum elong -5880 Jan 22 j 04:16 18°**₹**54'19 1°16'10 opposition -5887 Jul 12 j 17:36 4°**₹**24'27 -0°46'34 max. Earth dist. -5880 Jan 23 j 06:17 18°**₹**56'46 30.86381 AU min. Earth dist. -5887 Jul 11 j 17:06 4°**尽**26′09 28.90275 AU morning rise -5880 Feb 07 j 05:08 19°**∡**30'14 direct -5887 Sep 28 i 03:36 3°**х** 01′30 retrograde -5880 May 09 i 00:09 21°×29'19 evening set -5887 Dec 23 j 06:05 4° ₹ 53'50 min. Earth dist. -5880 Jul 27 i 04:00 20° ₹ 05'32 28.86340 AU opposition -5880 Jul 28 i 04:23 20°**₹**03'49 -1°23'37 conjunction -5886 Jan 08 i 00:21 5°**₹**29'12 -0°46'06 -5880 Oct 13 i 10:52 18°**∡** 40′38 direct -5886 Jan 08 j 00:20 5°**x**¹29'12 0°46'25 evening set -5879 Jan 07 j 20:09 20°**х** 33′24 minimum elong -5886 Jan 09 j 01:31 5° ₹31'34 30.89754 AU max. Earth dist. -5886 Jan 23 j 22:51 6°**х** 04'57 -5879 Jan 23 j 17:27 21°× 08'57 -1°20'25 conjunction morning rise 8°**х** 04′00 -5879 Jan 23 j 17:27 -5886 Apr 25 j 14:28 21° 🗷 08'57 1°20'47 retrograde minimum elong 6°**₹**'40'10 28.89355 AU -5886 Jul 14 j 06:06 -5879 Jan 24 j 19:05 21°**≯**11'22 30.86125 AU min. Earth dist. max. Earth dist. 21°**∡**¹44'54 -5886 Jul 15 j 05:41 morning rise -5879 Feb 08 j 18:41 6°**х** 38'31 -0°52'08 opposition -5879 May 11 j 11:26 -5886 Sep 30 j 13:43 5°**х** 15′30 retrograde 23°×744'00 direct -5886 Dec 25 j 18:00 7°**х** 07′52 -5879 Jul 30 j 16:09 22°**х** 18'32 -1°28'29 evening set opposition 22°**尽**20′08 28.86087 AU -5879 Jul 29 j 17:15 min. Earth dist. -5885 Jan 10 j 12:53 7°**х** 43'15 -0°51'16 -5879 Oct 15 j 21:08 20°**₹**55'19 conjunction direct -5885 Jan 10 j 12:52 -5878 Jan 10 j 09:06 22°× 48'11 minimum elong 7°**∡**′43'15 0°51'36 evening set -5885 Jan 11 j 15:08 max. Earth dist. 7°**х** 45'43 30.88870 AU morning rise -5885 Jan 26 j 11:38 8°**х¹**19′02 conjunction -5878 Jan 26 j 06:56 23°**₹**23'46 -1°24'55 retrograde -5885 Apr 28 j 03:40 10°**∡**18′05 minimum elong -5878 Jan 26 j 06:55 23°**∡**123'46 1°25'16 opposition -5885 Jul 17 j 17:25 8°**₹**52'33 -0°57'37 max. Earth dist. -5878 Jan 27 j 08:27 23°**尽**26'10 30.85848 AU min. Earth dist. -5885 Jul 16 j 17:00 8°**≯**54'15 28.88527 AU morning rise -5878 Feb 11 j 08:26 23°**₹**59'43 -5885 Oct 03 j 02:24 7°**∡**¹29'28 retrograde -5878 May 14 j 01:03 25°**∡** 58'49 direct -5885 Dec 28 j 06:08 9°**х** 21′53 -5878 Aug 01 j 04:34 24°**✗**35′00 28.85774 AU evening set min. Earth dist. -5878 Aug 02 j 03:50 24°**∡**³33′22 -1°33′13 opposition -5884 Jan 13 j 01:17 9°**≯**57'18 -0°56'21 -5878 Oct 18 j 08:50 23°**х¹**10′07 conjunction direct 9°**∡**757'18 0°56'41 minimum elong -5884 Jan 13 i 01:16 evening set -5877 Jan 12 j 22:20 25°**₹**'03'04 9°**尽**59'41 30.88107 AU max. Earth dist. -5884 Jan 14 i 02:36 -5877 Jan 28 j 20:22 25°**∡**38'40 -1°29'16 morning rise -5884 Jan 29 i 00:38 10°**х** 33′06 conjunction retrograde -5884 Apr 29 i 18:57 12°**х** 32′09 minimum elong -5877 Jan 28 i 20:22 25°**х** 38'40 1°29'38 min. Earth dist. -5884 Jul 18 i 05:10 11°**₹**08'17 28.87848 AU max. Earth dist. -5877 Jan 29 i 20:28 25° × 40'56 30.85478 AU -5884 Jul 19 j 05:21 11°**∡**¹06'36 -1°03'01 morning rise -5877 Feb 13 j 22:18 26°**х** 14′38 opposition -5884 Oct 04 j 13:51 9°**х** 43′28 -5877 May 16 j 14:02 28°**₹**13'44 direct retrograde -5884 Dec 29 j 18:05 11°×735'56 -5877 Aug 04 j 15:34 26°**₹**48'17 -1°37'48 evening set opposition 26°**≯**49'49 28.85371 AU min. Earth dist. -5877 Aug 03 j 17:52 25°**х** 24′58 conjunction -5883 Jan 14 j 13:50 12°**≯**11'23 -1°01'21 direct -5877 Oct 20 j 18:40 minimum elong -5883 Jan 14 j 13:49 12°**≯**11'23 1°01'41 evening set -5876 Jan 15 j 11:26 27°**х** 17′59 max. Earth dist. -5883 Jan 15 j 16:28 12°**✗**13'53 30.87488 AU -5883 Jan 30 j 13:28 12°**х** 47′13 -5876 Jan 31 j 10:02 27°**₹**53'37 -1°33'30 morning rise conjunction -5876 Jan 31 j 10:01 -5883 May 02 j 07:06 14°**∡**¹46'16 retrograde minimum elong 27° × 53'37 1°33'51 -5883 Jul 21 j 17:11 13°**₹**'20'42 -1°08'20 -5876 Feb 01 j 10:24 27°**尽**55′54 30.85030 AU opposition max. Earth dist. -5883 Jul 20 j 16:52 13°**尽**22'24 28.87301 AU 28°×729'36 min. Earth dist. morning rise -5876 Feb 16 j 12:06 direct -5883 Oct 07 j 02:13 11°**х** 57′33 -5876 Apr 05 j 20:15 0°ಕ evening set -5882 Jan 01 j 06:25 13°**х** 50′04 retrograde -5876 May 18 j 03:16 0°る28'38 -5876 Jun 30 j 06:04 30°R.**✓** conjunction -5882 Jan 17 j 02:32 14°**∡**°25'33 -1°06'17 min. Earth dist. -5876 Aug 05 j 05:19 29°**✗**04'44 28.84885 AU minimum elong -5882 Jan 17 j 02:31 14°**∡**¹25'33 -5876 Aug 06 j 03:10 29°**₹**03'12 -1°42'15 1°06'36 opposition max. Earth dist. -5882 Jan 18 j 04:22 14°**✗¹**27'59 30.87015 AU -5876 Oct 22 j 07:45 27°**х** 39′48 direct

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5875 in astronomical counting style is the year 5876 BCE in historical counting style. 29°**х** 32′54 -5875 Jan 17 i 00:40 max. Earth dist. -5869 Feb 17 i 07:23 13°る39'27 30.82697 AU evening set -5875 Jan 29 j 04:35 0°궁 -5869 Mar 04 j 14:07 14°**ප**13'31 morning rise -5869 Jun 04 j 00:09 16°**ප**12'11 retrograde -5875 Feb 01 j 23:29 0°る08'32 -1°37'35 -5869 Aug 22 j 10:18 14°る46'50 -2°08'37 conjunction opposition -5875 Feb 01 j 23:28 0°る08'32 1°37'56 -5869 Aug 21 j 15:12 14°る48'11 28.82891 AU minimum elong min. Earth dist. -5875 Feb 02 j 22:10 0°る10'40 30.84517 AU -5869 Nov 07 j 16:39 max. Earth dist. direct 13°る23'02 0°る44'32 -5868 Feb 02 j 23:06 morning rise -5875 Feb 18 j 02:04 evening set 15°**ප**16'46 2°る43'32 retrograde -5875 May 20 j 17:50 15°**ප**52'33 -2°01'40 -5868 Feb 19 j 00:13 opposition -5875 Aug 08 j 14:46 1°る18'03 -1°46'32 conjunction -5868 Feb 19 j 00:13 min. Earth dist. -5875 Aug 07 j 17:55 1°る19'31 28.84365 AU minimum elong 15°る52'33 2°02'02 -5875 Oct 07 j 02:23 30°₽**⋌**7 max. Earth dist. -5868 Feb 19 j 20:14 15°る54'25 30.82809 AU -5875 Oct 24 j 19:23 29°**∡** 54'35 -5868 Mar 06 j 04:26 direct morning rise 16°**පි**28'36 -5875 Nov 11 j 10:04 0°₹ -5868 Jun 05 j 12:32 18°**る**27'15 retrograde evening set -5874 Jan 19 j 13:57 1°る47'44 opposition -5868 Aug 23 j 21:31 17°る01'58 -2°11'39 min. Earth dist. -5868 Aug 23 j 03:57 17°る03'12 28.83054 AU conjunction -5874 Feb 04 j 13:17 2°**ප්**23'24 -1°41'31 direct -5868 Nov 09 j 01:39 15°る38'09 minimum elong -5874 Feb 04 j 13:16 2°る23'24 1°41'53 evening set -5867 Feb 04 j 12:52 17°る32'01 max. Earth dist. -5874 Feb 05 j 12:33 2°る25'35 30.83984 AU morning rise -5874 Feb 20 j 15:59 2°る59'24 conjunction -5867 Feb 20 j 14:29 18°る07'48 -2°04'25 retrograde -5874 May 23 j 06:00 4°る58'20 minimum elong -5867 Feb 20 j 14:29 18°る07'48 2°04'46 min. Earth dist. -5874 Aug 10 j 05:41 3°る34'17 28.83846 AU max. Earth dist. -5867 Feb 21 j 10:42 18°る09'42 30.82992 AU opposition -5874 Aug 11 i 02:05 3°る32'50 -1°50'39 morning rise -5867 Mar 08 j 18:46 18°る43'52 direct -5874 Oct 27 i 08:06 2°る09'17 retrograde -5867 Jun 08 i 01:11 20°る42'28 evening set -5873 Jan 22 j 03:22 4°る02'31 opposition -5867 Aug 26 j 08:37 19°る17'16 -2°14'28 min. Earth dist. -5867 Aug 25 j 15:08 19°る18'30 28.83239 AU -5873 Feb 07 j 02:56 4° සි38'12 -1°45'17 -5867 Nov 11 j 14:37 17°る53'26 conjunction direct -5873 Feb 07 j 02:55 4°る38'12 1°45'39 -5866 Feb 07 j 03:07 19°る47'26 evening set minimum elong -5873 Feb 08 j 00:51 4°る40'15 30.83494 AU max. Earth dist. -5873 Feb 23 j 06:01 5°る14'13 -5866 Feb 23 j 04:51 20°る23'14 -2°06'58 conjunction morning rise -5873 May 25 j 20:41 7°る13'04 -5866 Feb 23 j 04:51 20°**ට**23'14 2°07'19 retrograde minimum elong -5873 Aug 13 j 13:27 5°る47'34 -1°54'36 -5866 Feb 23 j 22:59 20°る24'56 30.83163 AU max. Earth dist. opposition -5873 Aug 12 j 17:11 5°る49'00 28.83408 AU -5866 Mar 11 j 09:27 20°る59'18 min. Earth dist. morning rise -5873 Oct 29 j 19:36 4°る23'57 -5866 Jun 10 j 15:03 22°**る**57'51 direct retrograde 21°る32'42 -2°17'05 -5872 Jan 24 j 16:35 6°る17'15 -5866 Aug 28 j 19:44 evening set opposition -5866 Aug 28 j 03:35 21°る33'51 28.83397 AU min. Earth dist. -5872 Feb 09 j 16:31 6°る52'57 -1°48'54 -5866 Nov 14 j 01:41 20°**る**08'50 conjunction direct -5872 Feb 09 j 16:31 -5865 Feb 09 j 17:17 22°る02'58 minimum elong 6°る52'57 1°49'16 evening set max. Earth dist. -5872 Feb 10 j 14:55 6°る55'03 30.83089 AU morning rise -5872 Feb 25 j 19:46 7°る28'59 conjunction -5865 Feb 25 j 19:27 22°る38'47 -2°09'19 retrograde -5872 May 27 j 09:14 9°る27'47 minimum elong -5865 Feb 25 j 19:27 22°る38'47 2°09'39 min. Earth dist. -5872 Aug 14 j 05:25 8°る03'40 28.83070 AU max. Earth dist. -5865 Feb 26 j 13:39 22°る40'29 30.83273 AU -5872 Aug 15 j 00:48 8° ප්ර2'17 -1°58'23 -5865 Mar 14 j 00:01 23°る14'51 opposition morning rise -5872 Oct 31 j 07:35 6°**る**38'36 -5865 Jun 13 j 03:37 25°**る**13'19 direct retrograde -5871 Jan 26 j 06:03 8°る32'00 -5865 Aug 31 j 06:55 23°る48'14 -2°19'30 evening set opposition min. Earth dist. -5865 Aug 30 j 15:38 23°る49'19 28.83462 AU -5871 Feb 11 i 06:20 9°**ට**07'43 -1°52'22 conjunction direct -5865 Nov 16 i 14:02 22°る24'19 minimum elong -5871 Feb 11 i 06:20 9°**ට**07'43 1°52'43 evening set -5864 Feb 12 i 07:27 24°る18'32 9°る09'44 30.82822 AU max. Earth dist. -5871 Feb 12 i 03:55 9°**る**43'45 -5864 Feb 28 i 09:47 morning rise -5871 Feb 27 i 09:52 conjunction 24°る54'22 -2°11'28 retrograde -5871 May 29 j 23:22 11°る42'30 minimum elong -5864 Feb 28 i 09:46 24°**궁**54'22 2°11'49 -5871 Aug 17 j 11:55 10°る17'02 -2°01'59 max. Earth dist. -5864 Feb 29 i 01:53 24°る55'52 30.83294 AU opposition min. Earth dist. -5871 Aug 16 j 16:01 10°る18'27 28.82880 AU -5864 Mar 15 j 14:41 25°**る**30'26 morning rise -5871 Nov 02 j 18:59 8°**궁**53'18 -5864 Jun 14 j 18:32 27°る28'48 direct retrograde -5870 Jan 28 j 19:41 10°**ප්**46'48 -5864 Sep 01 j 18:05 26°පි03'44 -2°21'42 evening set opposition 26°る04'46 28.83441 AU min. Earth dist. -5864 Sep 01 j 03:33 conjunction -5870 Feb 13 j 20:15 11°る22'32 -1°55'38 direct -5864 Nov 18 j 02:26 24°る39'44 11°る22'32 1°56'00 minimum elong -5870 Feb 13 j 20:15 evening set -5863 Feb 13 j 21:44 26°る34'02 11°る24'31 30.82687 AU -5870 Feb 14 j 17:29 max. Earth dist. -5870 Mar 02 j 00:01 11°る58'35 -5863 Mar 02 j 00:27 27°る09'53 -2°13'26 morning rise conjunction -5870 Jun 01 j 10:32 13°**る**57'17 -5863 Mar 02 j 00:27 27°る09'53 2°13'45 retrograde minimum elong 12°る31'52 -2°05'24 -5863 Mar 02 j 16:19 27°る11'22 30.83219 AU opposition -5870 Aug 19 j 23:14 max. Earth dist. min. Earth dist. -5870 Aug 19 j 04:39 12°る33'11 28.82823 AU morning rise -5863 Mar 18 j 05:23 27°**る**45'57 direct -5870 Nov 05 j 05:26 11°**පි**08'06 retrograde -5863 Jun 17 j 07:06 29°**る**44'12 evening set -5869 Jan 31 j 09:16 13°**る**01'42 opposition -5863 Sep 04 j 05:05 28°る19'08 -2°23'41 min. Earth dist. -5863 Sep 03 j 16:07 28°る20'03 28.83333 AU -5869 Feb 16 j 10:14 13°る37'28 -1°58'45 -5863 Nov 20 j 15:38 26°る55'03 conjunction direct -5869 Feb 16 j 10:13 13°る37'28 1°59'06 -5862 Feb 16 j 12:06 28°る49'25 minimum elong evening set

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5862 in astronomical counting style is the year 5863 BCE in historical counting style. 29°**ට**25'17 -2°15'11 -5862 Mar 04 i 15:04 -5856 May 22 j 09:52 15°**≈** conjunction -5862 Mar 04 j 15:03 29°**ප**25'17 2°15'31 -5856 Jul 02 j 21:03 15°≈28'09 minimum elong retrograde -5862 Mar 05 j 05:15 29°る26'36 30.83097 AU -5856 Aug 13 j 23:09 max. Earth dist. 15°R≈ -5862 Mar 20 j 20:14 -5856 Sep 19 j 08:15 0°201'21 opposition 14°≈03'19 -2°31'16 morning rise -5862 Mar 20 j 05:28 -5856 Sep 18 j 23:42 0°22 min. Earth dist. 14°≈03'56 28.84269 AU 1°≈59'27 -5856 Dec 06 j 01:03 retrograde -5862 Jun 19 j 20:53 direct 12°≈38'44 -5862 Sep 06 j 15:59 opposition 0°≈34'23 -2°25'26 evening set -5855 Mar 04 j 15:57 14°≈33'43 min. Earth dist. -5862 Sep 06 j 03:04 0°≈35'19 28.83201 AU -5855 Mar 16 j 13:15 15°≈ -5862 Sep 27 j 10:02 30°Rる 29°る10'12 direct -5862 Nov 23 j 04:28 conjunction -5855 Mar 20 j 20:34 15°≈09'38 -2°21'33 15°≈09'38 2°21'49 -5861 Jan 17 j 08:18 0°≈ minimum elong -5855 Mar 20 j 20:34 -5861 Feb 19 j 02:20 -5855 Mar 21 j 05:09 evening set 1°**≈**04'38 max. Earth dist. 15°≈10'26 30.84380 AU -5855 Apr 06 j 02:29 morning rise 15°≈45'40 conjunction -5861 Mar 07 j 05:31 1°≈40'30 -2°16'44 retrograde -5855 Jul 05 j 11:04 17°≈42'55 minimum elong -5861 Mar 07 j 05:31 1°≈40'30 2°17'03 opposition -5855 Sep 21 j 18:45 16°≈18'11 -2°31'26 max. Earth dist. -5861 Mar 07 j 19:03 1°≈41'46 30.82956 AU min. Earth dist. -5855 Sep 21 j 10:51 16°≈18'45 28.84867 AU morning rise -5861 Mar 23 j 10:45 2°≈16'34 -5855 Nov 19 j 03:29 15°R≈ retrograde -5861 Jun 22 j 08:30 4°≈14'32 direct -5855 Dec 08 j 12:58 14°≈53'35 opposition -5861 Sep 09 j 02:54 2°≈49'28 -2°26'59 -5855 Dec 27 j 21:33 min. Earth dist. -5861 Sep 08 j 15:39 2°≈50'16 28.83089 AU evening set -5854 Mar 07 j 06:29 16°≈48'42 direct -5861 Nov 25 j 15:48 1°≈25'11 evening set -5860 Feb 21 i 16:31 3°≈19'41 conjunction -5854 Mar 23 j 11:26 17°≈24'38 -2°21'36 minimum elong -5854 Mar 23 i 11:26 17°≈24'38 2°21'52 conjunction -5860 Mar 08 j 20:02 3°≈55'33 -2°18'04 max. Earth dist. -5854 Mar 23 j 19:57 17°≈25'26 30.84986 AU -5860 Mar 08 j 20:02 3°≈55'33 2°18'24 morning rise -5854 Apr 08 j 17:14 18°≈00'40 minimum elong -5860 Mar 09 j 08:59 3°≈56'45 30.82884 AU -5854 Jul 07 j 23:17 19°≈57'49 max. Earth dist. retrograde -5860 Mar 25 j 01:22 4°≈31'36 -5854 Sep 24 j 05:27 18°≈33'11 -2°31'22 morning rise opposition -5860 Jun 23 j 22:11 6°≈29'26 -5854 Sep 23 j 23:11 18°≈33'38 28.85473 AU retrograde min. Earth dist. -5860 Sep 10 j 13:32 5°≈04'23 -2°28'18 -5854 Dec 11 j 01:48 direct 17°≈08'35 opposition -5860 Sep 10 j 02:01 -5853 Mar 09 j 21:00 19°≈03'48 min. Earth dist. 5°≈05'12 28.83060 AU evening set -5860 Nov 27 j 04:04 3°≈40'00 direct 5°**≈**34'34 -5859 Feb 23 j 06:48 -5853 Mar 26 j 02:03 19°≈39'45 -2°21'26 conjunction evening set -5853 Mar 26 j 02:03 19°≈39'45 2°21'40 minimum elong 19°≈40′22 30.85585 AU -5859 Mar 11 j 10:29 6°≈10'26 -2°19'11 -5853 Mar 26 j 08:39 conjunction max. Earth dist. -5859 Mar 11 j 10:29 -5853 Apr 11 j 08:00 minimum elong 6°≈10'26 2°19'30 morning rise 20°≈15'46 -5859 Mar 11 j 22:13 -5853 Jul 10 j 13:18 max. Earth dist. 6°≈11'32 30.82903 AU retrograde 22°≈12'49 -5859 Mar 27 j 16:01 -5853 Sep 26 j 16:03 morning rise 6°**≈**46'30 opposition 20°≈48'17 -2°31'04 retrograde -5859 Jun 26 j 09:15 8°≈44'11 min. Earth dist. -5853 Sep 26 j 09:58 20°≈48'43 28.86045 AU opposition -5859 Sep 13 j 00:22 7°≈19'10 -2°29'23 direct -5853 Dec 13 j 14:32 19°≈23'39 min. Earth dist. -5859 Sep 12 j 14:22 7°≈19'52 28.83151 AU evening set -5852 Mar 11 j 11:37 21°≈18'59 -5859 Nov 29 j 14:03 5°≈54'42 direct -5858 Feb 25 j 21:02 7°≈49'21 -5852 Mar 27 j 16:53 21°≈54'56 -2°21'03 evening set conjunction -5852 Mar 27 j 16:54 21°≈54'56 2°21'18 minimum elong -5858 Mar 14 j 01:05 8°≈25'14 -2°20'06 max. Earth dist. -5852 Mar 27 j 22:32 21°≈55'28 30.86112 AU conjunction -5858 Mar 14 j 01:05 8°≈25'14 2°20'25 -5852 Apr 12 j 22:49 22°≈30'57 minimum elong morning rise max. Earth dist. -5858 Mar 14 j 12:55 8°≈26'20 30.83060 AU retrograde -5852 Jul 12 i 01:39 24°≈27'52 morning rise -5858 Mar 30 i 06:35 9°≈01'17 opposition -5852 Sep 28 i 02:43 23°≈03'24 -2°30'32 retrograde -5858 Jun 28 i 20:41 10°≈58'50 min. Earth dist. -5852 Sep 27 i 22:43 23°≈03'41 28.86535 AU opposition -5858 Sep 15 i 10:54 9°≈33'52 -2°30'15 direct -5852 Dec 15 j 02:10 21°≈38'44 min. Earth dist. -5858 Sep 15 i 00:47 9°≈34'35 28.83376 AU evening set -5851 Mar 14 j 02:13 23°≈34'09 -5858 Dec 02 j 02:53 8°≈09'20 direct -5857 Feb 28 j 11:23 10°≈04'05 -5851 Mar 30 j 07:45 24°≈10'07 -2°20'27 evening set conjunction -5851 Mar 30 j 07:45 24°≈10'07 2°20'40 minimum elong conjunction -5857 Mar 16 j 15:30 10°≈39'59 -2°20'48 max. Earth dist. -5851 Mar 30 j 12:01 24°≈10'30 30.86570 AU minimum elong -5857 Mar 16 j 15:30 10°≈39'59 2°21'05 morning rise -5851 Apr 15 j 13:45 24°≈46'08 max. Earth dist. -5857 Mar 17 j 01:35 10°≈40'55 30.83364 AU retrograde -5851 Jul 14 j 15:46 26°≈42'53 -5857 Apr 01 j 21:14 11°≈16'01 opposition -5851 Sep 30 j 13:15 25°≈18'29 -2°29'47 morning rise -5857 Jul 01 j 09:15 -5851 Sep 30 j 09:25 25°≈18'45 28.86942 AU retrograde 13°≈13'28 min. Earth dist. -5857 Sep 17 j 21:38 -5851 Dec 17 j 15:11 23°≈53'45 opposition 11°≈48'34 -2°30'52 direct -5857 Sep 17 j 12:26 11°≈49'13 28.83764 AU -5850 Mar 16 j 16:53 25°**≈**49'14 min. Earth dist. evening set direct -5857 Dec 04 j 13:10 10°≈24′00 evening set -5856 Mar 02 j 01:27 12°≈18'51 conjunction -5850 Apr 01 j 22:31 26°≈25'12 -2°19'38 minimum elong -5850 Apr 01 j 22:32 26°≈25'12 2°19'52 conjunction -5856 Mar 18 j 06:00 12°≈54'45 -2°21'17 max. Earth dist. -5850 Apr 02 j 01:10 26°≈25'27 30.86941 AU minimum elong -5856 Mar 18 j 06:00 12°≈54'45 2°21'35 morning rise -5850 Apr 18 j 04:34 27°≈01'13 max. Earth dist. -5856 Mar 18 j 16:31 12°≈55'44 30.83817 AU -5850 Jul 17 j 02:21 28°≈57'48 retrograde -5856 Apr 03 j 11:40 13°≈30'48 -5850 Oct 02 j 23:48 27°≈33'27 -2°28'48 morning rise opposition

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		-			5851 BCE in historical c		
min. Earth dist.	-5850 Oct 02 j 21:57	27° ≈ 33'35	28.87295 AU	conjunction	-5843 Apr 18 j 03:49	12° ∺ 06'37	
direct	-5850 Dec 20 j 01:47	26° ≈ 08'38		minimum elong	-5843 Apr 18 j 03:50	12° 米 06′38	
evening set	-5849 Mar 19 j 07:19	28° ≈ 04'11		max. Earth dist.	-5843 Apr 18 j 00:44		30.91093 AU
				morning rise	-5843 May 04 j 09:43	12°) 42′33	
conjunction	-5849 Apr 04 j 13:16	28° ≈ 40′09	-2°18'37	retrograde	-5843 Aug 01 j 11:12	14°) €38′00	
minimum elong	-5849 Apr 04 j 13:16	28° ≈ 40′09	2°18'50	opposition	-5843 Oct 18 j 00:07	13°) 1 4′03	-2°15'48
max. Earth dist.	-5849 Apr 04 j 15:30	28° ≈ 40′21	30.87293 AU	min. Earth dist.	-5843 Oct 18 j 03:33	13° ¥ 13'48	28.91756 AU
morning rise	-5849 Apr 20 j 19:14	29° ≈ 16′09		direct	-5842 Jan 04 j 14:30	11°) 48′54	
	-5849 May 12 j 01:46	0°) €		evening set	-5842 Apr 04 j 11:20	13°) (44′52	
retrograde	-5849 Jul 19 j 13:32	1° ¥ 12'34					
· ·	-5849 Sep 28 j 12:49	30°R≈		conjunction	-5842 Apr 20 j 18:09	14° ¥ 20'51	-2°05'46
opposition	-5849 Oct 05 j 10:12	29° ≈ 48'15	-2°27'36	minimum elong	-5842 Apr 20 j 18:10	14°) (20'51	
min. Earth dist.	-5849 Oct 05 j 08:35		28.87639 AU	max. Earth dist.	-5842 Apr 20 j 13:56		30.92142 AU
direct	-5849 Dec 22 j 14:58	28° ≈ 23'21	20.07037110	morning rise	-5842 May 07 j 00:01	14°) 56'46	30.921.2110
uncet	-5848 Mar 12 j 00:21	0° \		retrograde	-5842 Aug 04 j 00:33	16° ¥ 52'05	
avanina aat	3	0°) 18′56		opposition	• •	16 X 32 03 15° X 28'14	2012106
evening set	-5848 Mar 20 j 21:42	0 X1836		min. Earth dist.	-5842 Oct 20 j 10:21		
	5040 4 06:02 40	001/5455	2015122		-5842 Oct 20 j 13:45		28.92811 AU
conjunction	-5848 Apr 06 j 03:40	0° ¥ 54'55		direct	-5841 Jan 07 j 04:03	14°) €03'06	
minimum elong	-5848 Apr 06 j 03:41	0° ¥ 54'55		evening set	-5841 Apr 07 j 01:41	15° ¥ 59'09	
max. Earth dist.	-5848 Apr 06 j 03:57		30.87656 AU				
morning rise	-5848 Apr 22 j 09:49	1° ∺ 30'55		conjunction	-5841 Apr 23 j 08:31	16° ∺ 35'08	-2°03'09
retrograde	-5848 Jul 21 j 01:16	3° ∺ 27′09		minimum elong	-5841 Apr 23 j 08:32	16°) 35′08	2°03'15
opposition	-5848 Oct 06 j 20:37	2° ₩ 02'52	-2°26'10	max. Earth dist.	-5841 Apr 23 j 03:02	16°) 34′38	30.93199 AU
min. Earth dist.	-5848 Oct 06 j 20:12	2°) €02'54	28.88032 AU	morning rise	-5841 May 09 j 14:17	17° ₩ 11'02	
direct	-5848 Dec 24 j 01:07	0°) 37′53		retrograde	-5841 Aug 06 j 11:45	19°) €06'13	
evening set	-5847 Mar 23 j 12:01	2° ₩ 33'32		opposition	-5841 Oct 22 j 20:45	17° ¥ 42'29	-2°10'11
8.11				min. Earth dist.	-5841 Oct 23 j 02:04		28.93861 AU
conjunction	-5847 Apr 08 j 18:20	3° ¥ 09'30	-2°15'58	direct	-5840 Jan 09 j 14:52	16° ¥ 17′20	20.55001110
minimum elong	-5847 Apr 08 j 18:21	3° ¥ 09'30		evening set	-5840 Apr 08 j 15:51	18°) 13′27	
max. Earth dist.	-5847 Apr 08 j 18:45		30.88086 AU	evening set	3040 Apr 00 j 13.31	10 /(1327	
		3° ∺ 45′29	30.88080 AU	:	5040 A 24:22.52	100 V 40126	2000120
morning rise	-5847 Apr 25 j 00:19			conjunction	-5840 Apr 24 j 22:52	18°) 49′26	
retrograde	-5847 Jul 23 j 11:30	5°) 41'33	202.422	minimum elong	-5840 Apr 24 j 22:53	18°) (49′26	
opposition	-5847 Oct 09 j 06:52	4°) 17′18		max. Earth dist.	-5840 Apr 24 j 16:45		30.94225 AU
min. Earth dist.	-5847 Oct 09 j 07:12		28.88501 AU	morning rise	-5840 May 11 j 04:31	19° ∺ 25′20	
direct	-5847 Dec 26 j 13:09	2° ¥ 52'15		retrograde	-5840 Aug 07 j 23:38	21° ¥ 20′21	
evening set	-5846 Mar 26 j 02:28	4°) (47′57		opposition	-5840 Oct 24 j 07:07	19° ¥ 56'43	-2°07'05
				min. Earth dist.	-5840 Oct 24 j 12:55	19° ∺ 56'18	28.94829 AU
conjunction	-5846 Apr 11 j 08:45	5° ¥ 23'55	-2°14'19	direct	-5839 Jan 11 j 04:04	18° ∺ 31'33	
minimum elong	-5846 Apr 11 j 08:46	5° ¥ 23'55	2°14'30	evening set	-5839 Apr 11 j 06:20	20°) €27'43	
max. Earth dist.	-5846 Apr 11 j 07:14	5°) 23'47	30.88623 AU				
morning rise	-5846 Apr 27 j 14:53	5° ¥ 59'54		conjunction	-5839 Apr 27 j 13:15	21°) 03'43	-1°57'20
retrograde	-5846 Jul 25 j 23:33	7° ¥ 55'47		minimum elong	-5839 Apr 27 j 13:16	21°) 03'43	
opposition	-5846 Oct 11 j 17:13	6° ¥ 31'35	-2°22'40	max. Earth dist.	-5839 Apr 27 j 04:53		30.95150 AU
min. Earth dist.	-5846 Oct 11 j 17:54		28.89108 AU	morning rise	-5839 May 13 j 18:53	21°) €39'35	
direct	-5846 Dec 29 j 01:22	5° ₩ 06'29	20.09100110	retrograde	-5839 Aug 10 j 11:25	23°) (33'37'	
evening set	-5845 Mar 28 j 16:32	7° ∺ 02'14		opposition	-5839 Oct 26 j 17:29	22°) 10'53	2003147
evening set	-3643 Mai 26 j 10.32	/ /(02 14		min. Earth dist.	-5839 Oct 20 j 17:29 -5839 Oct 27 j 00:43		28.95708 AU
conjunction	-5845 Apr 13 j 23:05	7° ¥ 38'13	2012120	direct	-5838 Jan 13 j 14:31	20° X 10'22	20.73 / UO AU
					-		
minimum elong	-5845 Apr 13 j 23:05	7° ∺ 38'13		evening set	-5838 Apr 13 j 20:34	22°) (41′54	
max. Earth dist.	-5845 Apr 13 j 21:57		30.89297 AU		5020 4 52 1 5 5	0001/15	105.41.0
morning rise	-5845 Apr 30 j 05:00	8° ∺ 14'10		conjunction	-5838 Apr 30 j 03:41	23°) 17′54	
retrograde	-5845 Jul 28 j 10:07	10° 米 09'55		minimum elong	-5838 Apr 30 j 03:42	23°) 17′54	
opposition	-5845 Oct 14 j 03:36	8° ¥ 45'46	-2°20'36	max. Earth dist.	-5838 Apr 29 j 19:04	23° ¥ 17′05	30.95984 AU
min. Earth dist.	-5845 Oct 14 j 05:29	8°) 45′38	28.89852 AU	morning rise	-5838 May 16 j 09:03	23°) 53′45	
direct	-5845 Dec 31 j 13:59	7° ₩ 20'38		retrograde	-5838 Aug 12 j 21:12	25° ¥ 48'27	
evening set	-5844 Mar 30 j 06:48	9° ₩ 16'27		opposition	-5838 Oct 29 j 03:56	24°) €24'57	-2°00'19
	-			min. Earth dist.	-5838 Oct 29 j 12:13	24°) €24'22	28.96483 AU
conjunction	-5844 Apr 15 j 13:23	9° ¥ 52'25	-2°10'27	direct	-5837 Jan 16 j 03:05	22°) 59'43	
minimum elong	-5844 Apr 15 j 13:23	9° ¥ 52'25		evening set	-5837 Apr 16 j 10:43	24°) (55'57	
max. Earth dist.	-5844 Apr 15 j 10:39		30.90133 AU		-ry 1 10.10	,,,,,,,,,	
morning rise	-5844 May 01 j 19:25	10° ∺ 28′22	20.20133110	conjunction	-5837 May 02 j 17:40	25°) 31′56	-1°50'51
•	-5844 Jul 29 j 23:18	10 X 28 22 12° X 23'57		minimum elong	-5837 May 02 j 17:40	25° H 31'56	
retrograde	-		2018/10	_			
opposition	-5844 Oct 15 j 13:44	10° ¥ 59'54		max. Earth dist.	-5837 May 02 j 06:48		30.96736 AU
min. Earth dist.	-5844 Oct 15 j 15:26		28.90752 AU	morning rise	-5837 May 18 j 23:03	26°) €07'47	
direct	-5843 Jan 02 j 02:18	9°) (34'45		retrograde	-5837 Aug 15 j 08:27	28°) €02'18	
evening set	-5843 Apr 01 j 21:03	11° ∺ 30′39		opposition	-5837 Oct 31 j 14:15	26°) (38′52	
				min. Earth dist.	-5837 Oct 31 j 23:11	26° 大 38'14	28.97208 AU

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5836 in astronomical counting style is the year 5837 BCE in historical counting style. direct -5836 Jan 18 i 15:00 25°**)** 13'34 conjunction -5830 May 18 j 17:54 11°Y06'06 -1°23'18 minimum elong -5836 Apr 18 j 00:43 27°**₩**09'50 -5830 May 18 i 17:55 11°Υ06'06 1°23'16 evening set -5830 May 18 j 01:51 11°**Υ**04'37 31.02954 AU max. Earth dist. 27°**)** 45'48 -1°47'21 conjunction -5836 May 04 j 07:51 -5830 Jun 03 j 21:49 11°**Y**41'48 morning rise 13°**Y**35'17 -5836 May 04 j 07:52 27°**)** 45'49 1°47'24 -5830 Aug 30 j 15:36 minimum elong retrograde -5836 May 03 j 21:04 27° **)** 44'48 30.97444 AU -5830 Nov 15 j 14:04 12°Υ12'20 -1°26'41 max. Earth dist. opposition -5836 May 20 j 12:56 -5830 Nov 16 j 03:56 12°**Y**11'21 29.03627 AU morning rise 28°**)** 21'38 min. Earth dist. $0^{\circ}\Upsilon$ 10°**Y**46′57 -5836 Jul 17 j 03:33 direct -5829 Feb 03 j 05:40 0°Υ15'59 12° Y 43'28 retrograde -5836 Aug 16 j 18:10 evening set -5829 May 05 j 00:47 -5836 Sep 16 j 18:59 30°**₹** opposition -5836 Nov 02 j 00:29 28°**¥**52'35 -1°52'51 conjunction -5829 May 21 j 07:16 13°**Y**19'23 -1°18'49 -5836 Nov 02 j 11:02 -5829 May 21 j 07:17 13°Υ19'23 1°18'45 min. Earth dist. 28°**₭**51'50 28.97900 AU minimum elong -5835 Jan 20 j 03:18 -5829 May 20 j 15:27 direct 27°**)** 27'15 max. Earth dist. 13°**Y**17'55 31.04156 AU evening set -5835 Apr 20 j 14:49 29°**₩**23'32 morning rise -5829 Jun 06 j 10:48 13°Y55'04 retrograde -5829 Sep 02 j 00:45 15°**Y**48′26 conjunction -5835 May 06 j 21:48 29°\ 59'30 -1°43'42 opposition -5829 Nov 18 j 00:27 14°Y25'36 -1°21'50 minimum elong -5835 May 06 j 21:48 29°\ 59'30 1°43'44 min. Earth dist. -5829 Nov 18 j 15:12 14°**Υ**24'33 29.04806 AU max. Earth dist. -5835 May 06 j 09:09 29°**¥**58'19 30.98155 AU direct -5828 Feb 05 j 18:21 13°Y00'15 -5835 May 07 j 03:16 $0^{\circ}\Upsilon$ evening set -5828 May 06 j 14:30 14°Y56'48 morning rise -5835 May 23 j 02:52 0°Y35'18 retrograde -5835 Aug 19 j 06:21 2°Y29'29 conjunction -5828 May 22 j 20:37 15°**Y**32'42 -1°14'13 opposition -5835 Nov 04 j 10:42 1°Y06'08 -1°48'52 minimum elong -5828 May 22 j 20:38 15°**Υ**32'42 1°14'10 min. Earth dist. -5835 Nov 04 j 21:07 1°**Υ**05'23 28.98621 AU max. Earth dist. -5828 May 22 j 02:43 15°**℃**31'02 31.05317 AU -5835 Dec 19 i 00:24 30°R**)**€ morning rise -5828 Jun 08 j 00:00 16°**Y**′08′22 direct -5834 Jan 22 j 15:51 29° **)** 40'44 retrograde -5828 Sep 03 j 11:33 18°**Y**01'37 -5834 Feb 26 j 01:51 $0^{\circ}\Upsilon$ -5828 Nov 19 j 10:42 16°**Y**38'52 -1°16'52 opposition -5834 Apr 23 j 04:37 1°Y37'03 -5828 Nov 20 j 02:02 16°**Y**37'47 29.05931 AU evening set min. Earth dist. -5827 Feb 07 j 05:18 15°**Y**13'31 direct -5834 May 09 j 11:37 2°Y13'00 -1°39'54 -5827 May 09 j 04:04 17°**Y**10′07 conjunction evening set -5834 May 09 j 11:38 2°Υ13'00 1°39'56 minimum elong -5834 May 08 j 22:51 2°**Υ**11'49 30.98899 AU -5827 May 25 j 10:09 17°**Y**46′00 -1°09′31 max. Earth dist. conjunction -5834 May 25 j 16:21 2°Y48'47 -5827 May 25 j 10:10 17°**Y**46′00 1°09′26 minimum elong morning rise -5834 Aug 21 j 17:06 4°Υ42'49 -5827 May 24 j 16:20 17°**Y**44'21 31.06389 AU max. Earth dist. retrograde -5834 Nov 06 j 21:03 3°**Y**19'30 -1°44'44 -5827 Jun 10 j 13:01 18°**Y**21′38 opposition morning rise -5834 Nov 07 j 09:01 3°**Y**18'39 28.99406 AU -5827 Sep 05 j 21:07 20°**Y**14'46 min. Earth dist. retrograde -5833 Jan 25 j 04:42 1°Y54'05 -5827 Nov 21 j 21:18 18°**Y**′52'05 -1°11'47 direct opposition -5833 Apr 25 j 18:23 3°Y50'25 18°**Y**50'54 29.06940 AU evening set min. Earth dist. -5827 Nov 22 j 14:16 max. Earth dist. -5833 May 11 j 11:30 4°Υ25'05 30.99748 AU direct -5826 Feb 09 j 16:43 17°**Y**26'45 evening set -5826 May 11 j 17:35 19°**Y**23′21 conjunction -5833 May 12 j 01:15 4°Y26'22 -1°35'58 -5833 May 12 j 01:16 4°Υ26'22 1°35'58 conjunction -5826 May 27 j 23:15 19°**Y**59'12 -1°04'43 minimum elong -5833 May 28 j 05:52 5°Y02'07 -5826 May 27 j 23:16 19°**Y**59'12 1°04'38 morning rise minimum elong -5833 Aug 24 j 05:25 6°Y56'00 max. Earth dist. -5826 May 27 j 03:32 19°**Υ**57'22 31.07347 AU retrograde -5833 Nov 09 j 07:11 5° Y 32'45 -1° 40'26 -5826 Jun 13 j 01:56 20°**Y**34'49 opposition morning rise -5833 Nov 09 j 18:44 5°Υ31'56 29.00302 AU -5826 Sep 08 j 08:17 22°**Y**27'49 min. Earth dist. retrograde 4°Υ07'19 -5826 Nov 24 i 07:43 21°Y05'12 -1°06'36 direct -5832 Jan 27 i 18:42 opposition 6°**Y**'03'42 21°**Υ**'04'00 29.07836 AU evening set -5832 Apr 27 j 08:02 min. Earth dist. -5826 Nov 25 i 00:36 19°**Ƴ**39'49 direct -5825 Feb 12 i 05:02 6°Υ39'38 -1°31'53 21°Y36'25 conjunction -5832 May 13 j 14:50 evening set -5825 May 14 i 06:55 -5832 May 13 i 14:50 6°Υ39'38 1°31'52 minimum elong max. Earth dist. -5832 May 13 i 00:23 6°**Υ**38'17 31.00706 AU conjunction -5825 May 30 i 12:28 22°Y12'15 -0°59'49 -5832 May 29 j 19:12 7°**℃**15'22 minimum elong -5825 May 30 i 12:28 22°\bar{\gamma}12'16 0°59'43 morning rise -5832 Aug 25 j 16:06 9°Y09'06 max. Earth dist. -5825 May 29 j 16:28 22°Υ10'24 31.08187 AU retrograde 7°**Y**45'56 -1°36'00 -5825 Jun 15 j 14:38 22°**Y**47′50 opposition -5832 Nov 10 j 17:31 morning rise 7°**Υ**45'01 29.01321 AU 24°**Y**40'42 min. Earth dist. -5832 Nov 11 j 06:28 retrograde -5825 Sep 10 j 17:59 -5831 Jan 29 j 05:53 -5825 Nov 26 j 18:12 direct 6°**Y**20'30 opposition 23°Y18'06 -1°01'19 23°Υ16'48 29.08628 AU -5825 Nov 27 j 12:53 -5831 Apr 29 j 21:41 8°Y16'56 min. Earth dist. evening set direct -5824 Feb 14 j 17:56 21°Y52'42 23°**Y**49'17 -5831 May 16 j 04:26 8°Y52'51 -1°27'39 -5824 May 15 j 20:12 conjunction evening set -5831 May 16 j 04:27 8°**Υ**52'51 1°27'37 -5824 May 31 j 04:11 24°**Υ**23'07 31.08949 AU minimum elong max. Earth dist. -5831 May 15 j 13:51 8°**Y**51'30 31.01790 AU max. Earth dist. morning rise -5831 Jun 01 j 08:32 9°**Y**28'34 conjunction -5824 Jun 01 j 01:26 24°\bar{\gamma}25'06 -0°54'51 retrograde -5831 Aug 28 j 03:47 11°**Υ**22'10 minimum elong -5824 Jun 01 j 01:26 24°**Y**25′06 0°54'44 opposition -5831 Nov 13 j 03:42 9°**Υ**59'07 -1°31'25 morning rise -5824 Jun 17 j 03:22 25°**Y**00′38 min. Earth dist. -5831 Nov 13 j 16:39 9°**Y**58'12 29.02436 AU retrograde -5824 Sep 12 j 05:17 26°**Y**53′21 -5830 Jan 31 j 19:17 8°Y33'42 -5824 Nov 28 j 04:33 25°Y30'47 -0°55'58 direct opposition -5830 May 02 j 11:25 10°Y30'11 min. Earth dist. -5824 Nov 28 j 23:03 25°Υ29'29 29.09343 AU evening set

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5823 in astronomical counting style is the year 5824 BCE in historical counting style. 24°\bar{`\05'19 -5823 Feb 16 i 08:01 minimum elong -5817 Jun 17 j 16:13 9°849'18 0°18'10 direct -5823 May 18 j 09:23 26°**Y**01'54 -5817 Jun 16 j 16:20 9°**8**47'06 31.15102 AU evening set max. Earth dist. -5817 Jul 03 j 15:00 10°824'36 morning rise -5823 Jun 03 j 14:18 26°**Y**37'41 -0°49'48 -5817 Sep 28 j 04:23 12°**8**16'37 conjunction retrograde -5823 Jun 03 j 14:19 26°**Y**37'41 0°49'40 -5817 Dec 14 j 05:44 10°854'24 -0°16'47 minimum elong opposition -5823 Jun 02 j 16:21 26°Υ35'39 31.09642 AU min. Earth dist. -5817 Dec 15 j 02:35 max. Earth dist. 10°**8**52'57 29.15701 AU 27°**Υ**13'11 morning rise -5823 Jun 19 j 15:46 direct -5816 Mar 03 j 20:01 9°**8**28'59 29°Y05'46 retrograde -5823 Sep 14 j 15:35 evening set -5816 Jun 03 j 02:13 11°**8**25'36 27°**Y**43'12 -0°50'32 -5816 Jun 18 j 04:45 opposition -5823 Nov 30 j 15:01 max. Earth dist. 11°**8**58'59 31.16235 AU 27°**Υ**41'48 29.10033 AU min. Earth dist. -5823 Dec 01 j 10:58 26°**Y**17'42 direct -5822 Feb 18 j 19:45 conjunction -5816 Jun 19 j 04:22 12°**8**01'11 -0°13'01 28°Y14'16 -5816 Jun 19 j 04:22 12°801'11 0°12'47 evening set -5822 May 20 j 22:23 minimum elong 28°**Υ**47'58 31.10345 AU -5816 Jun 19 j 00:20 12°800'49 max. Earth dist. -5822 Jun 05 j 05:02 behind sun begin behind sun end -5816 Jun 19 j 08:23 12°**8**01'32 conjunction -5822 Jun 06 j 03:00 28°**Y**'50'00 -0°44'42 morning rise -5816 Jul 05 j 02:29 12°836'26 minimum elong -5822 Jun 06 j 03:01 28°**Y**50'00 0°44'33 retrograde -5816 Sep 29 j 14:03 14°**8**28'25 morning rise -5822 Jun 22 j 04:03 29°**Y**25'28 opposition -5816 Dec 15 j 16:29 13°806'17 -0°11'02 -5822 Jul 08 j 17:23 0°8 min. Earth dist. -5816 Dec 16 j 14:50 13°**8**04'44 29.16814 AU retrograde -5822 Sep 17 j 02:35 1°817'54 direct -5815 Mar 06 j 07:48 11°**8**40'56 -5822 Nov 30 j 07:22 30°R℃ evening set -5815 Jun 05 j 14:46 13°**8**37'34 opposition -5822 Dec 03 j 01:27 29°Y55'22 -0°45'03 min. Earth dist. -5822 Dec 03 j 21:14 29°Υ53'59 29.10744 AU conjunction -5815 Jun 21 i 16:18 14°813'06 -0°07'38 direct -5821 Feb 21 i 10:11 28°Y29'50 -5815 Jun 21 i 16:18 14°**8**13'07 0°07'24 minimum elong -5821 May 10 j 22:29 0°8 behind sun begin -5815 Jun 21 i 10:21 14°**8**12'35 -5821 May 23 j 11:09 0°826'22 behind sun end -5815 Jun 21 j 22:16 14°**8**13'38 evening set max. Earth dist. -5815 Jun 20 j 15:47 14°**8**10'50 31.17315 AU -5821 Jun 08 j 15:20 1°802'05 -0°39'32 -5815 Jul 07 j 13:58 14°**8**48'20 conjunction morning rise -5821 Jun 08 j 15:20 1°802'05 0°39'22 -5815 Jul 13 j 00:08 15°8 minimum elong -5821 Jun 07 j 16:20 0°**8**59'58 31.11090 AU -5815 Oct 02 j 01:12 max. Earth dist. retrograde 16°**8**40'16 1°**8**37'31 15°**8**18'13 -0°05'16 -5821 Jun 24 j 16:01 -5815 Dec 18 j 03:11 opposition morning rise 15°**8**16'42 29.17841 AU -5821 Sep 19 j 13:28 3°**8**29'50 -5815 Dec 19 j 01:07 min. Earth dist. retrograde -5821 Dec 05 j 11:53 2°807'19 -0°39'29 -5815 Dec 29 j 03:32 15°R₩ opposition min. Earth dist. 2°805'54 29.11540 AU direct -5821 Dec 06 j 08:09 -5814 Mar 08 j 20:43 13°**8**52'53 -5820 Feb 23 j 21:48 0°**8**41'46 -5814 May 14 j 17:34 direct 15°**8** -5820 May 24 j 23:51 2°**8**38'17 -5814 Jun 08 j 03:15 15°**8**49'33 evening set evening set -5820 Jun 09 j 05:28 3°**8**11'55 31.11935 AU -5814 Jun 23 j 03:12 16°**8**22'44 31.18283 AU max. Earth dist. max. Earth dist. conjunction -5820 Jun 10 j 03:48 3°813'59 -0°34'18 conjunction -5814 Jun 24 j 04:18 16°**8**25'03 -0°02'14 -5820 Jun 10 j 03:48 3°813'59 0°34'08 minimum elong -5814 Jun 24 j 04:17 16°825'03 0°02'00 minimum elong -5820 Jun 26 j 03:55 3°**8**49'22 behind sun begin -5814 Jun 23 j 21:45 16°**8**24'28 morning rise retrograde -5820 Sep 20 j 22:02 5°**8**41'35 behind sun end -5814 Jun 24 j 10:48 16°**8**25'38 -5820 Dec 06 j 22:16 4°819'07 -0°33'53 -5814 Jul 10 j 01:19 17°**8**00'14 opposition morning rise -5820 Dec 07 j 18:54 4°817'40 29.12431 AU retrograde -5814 Oct 04 j 11:53 18°**8**52'08 min. Earth dist. -5819 Feb 25 j 10:51 2°853'34 -5814 Nov 18 j 18:06 18°**8**19'31 direct asc. node 4°850'06 -5814 Dec 20 j 14:04 17°**8**30'08 0°00'30 evening set -5819 May 27 j 12:41 opposition min. Earth dist. -5814 Dec 21 i 13:18 17°**8**28'31 29.18766 AU -5819 Jun 12 j 16:02 5°**8**25'46 -0°29'02 conjunction direct -5813 Mar 11 i 07:58 16°804'50 minimum elong -5819 Jun 12 j 16:03 5°**8**25'46 0°28'51 evening set -5813 Jun 10 j 15:28 18°801'30 max. Earth dist. -5819 Jun 11 j 16:22 5°823'34 31.12895 AU -5819 Jun 28 i 15:49 6°801'07 -5813 Jun 26 j 16:01 18°**8**36'57 0°03'18 morning rise conjunction -5819 Sep 23 i 08:34 7°**8**53'14 -5813 Jun 26 i 16:01 18°**8**36'57 0°03'33 retrograde minimum elong -5819 Dec 09 j 08:45 6°830'51 -0°28'13 behind sun begin -5813 Jun 26 j 09:33 18°**8**36'23 opposition 6°**と**29'26 29.13451 AU -5819 Dec 10 j 05:07 -5813 Jun 26 j 22:29 18°**8**37'32 min. Earth dist. behind sun end 18°**8**34'37 31.19148 AU direct -5818 Feb 27 j 21:41 5°**8**05'20 max. Earth dist. -5813 Jun 25 j 14:53 -5818 May 30 j 01:06 7°**と**01'53 morning rise -5813 Jul 12 j 12:30 19°**8**12'05 evening set max. Earth dist. -5818 Jun 14 j 05:31 7°**8**35'25 31.13963 AU retrograde -5813 Oct 06 j 23:07 21°**8**03'56 opposition -5813 Dec 23 j 00:53 19°**8**41'58 0°06'16 -5818 Jun 15 j 04:12 7°**8**37'31 -0°23'43 min. Earth dist. -5813 Dec 24 j 00:05 19°**8**40'22 29.19559 AU conjunction -5818 Jun 15 j 04:12 7°**8**37'31 0°23'32 -5812 Mar 12 j 22:44 18°**8**16'41 minimum elong direct -5818 Jul 01 j 03:19 8°812'50 -5812 Jun 12 j 03:50 20°813'20 morning rise evening set -5818 Sep 25 j 17:35 10°**8**04'54 -5812 Jun 27 j 01:23 20°846'18 31.19884 AU retrograde max. Earth dist. -5818 Dec 11 j 19:22 8°**8**42'36 -0°22'31 opposition min. Earth dist. -5818 Dec 12 j 16:45 8°**8**41'06 29.14553 AU conjunction -5812 Jun 28 j 03:44 20°**8**48'45 0°08'40 minimum elong direct -5817 Mar 02 j 08:34 7°**8**17'08 -5812 Jun 28 j 03:44 20°**8**48'45 0°08'55 evening set -5817 Jun 01 j 13:44 9°**8**13'42 behind sun begin -5812 Jun 27 j 22:09 20°**8**48'15 -5812 Jun 28 j 09:19 20°849'15 behind sun end -5817 Jun 17 j 16:13 9°849'18 -0°18'23 -5812 Jul 13 j 23:41 21°**8**23'51 conjunction morning rise

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Earth dist. direct -5811 Jun 14 j 15:55 22°825'01 evening set -5805 Jul 14 j 09:19 6°П06'35 0°45'26 conjunction -5805 Jul 14 j 09:18 -5811 Jun 30 j 15:23 23°**8**00'24 6°**Ⅱ**06'35 0°45'45 conjunction 0°14'01 minimum elong -5811 Jun 30 j 15:23 23°**8**00'24 -5805 Jul 30 j 00:54 6°**Ⅱ**41'21 minimum elong 0°14'17 morning rise 8°Щ32′54 -5811 Jun 30 j 12:22 23°800'07 -5805 Oct 24 j 04:33 behind sun begin retrograde -5804 Jan 09 j 16:13 behind sun end -5811 Jun 30 j 18:23 23°**8**00'40 opposition 7°**Ⅱ**11'06 0°51'11 max. Earth dist. -5811 Jun 29 j 13:39 22°858'00 31.20539 AU min. Earth dist. -5804 Jan 10 j 16:02 7°**П**09'28 29.25567 AU -5811 Jul 16 j 10:38 23°**8**35'26 -5804 Mar 30 j 21:10 5°**Ⅱ**45'55 morning rise direct -5811 Oct 10 j 18:38 25°**8**27'09 -5804 Jun 30 j 01:07 7°**Ⅱ**42'23 retrograde evening set opposition -5811 Dec 26 j 22:32 24°805'13 0°17'45 min. Earth dist. -5811 Dec 27 j 22:48 24°803'32 29.20874 AU conjunction -5804 Jul 15 j 20:05 8°**Ⅲ**17′27 0°50'29 direct -5810 Mar 18 j 00:21 22°**8**39'55 minimum elong -5804 Jul 15 j 20:04 8°**Ⅲ**17′26 0°50'48 evening set -5810 Jun 17 j 03:50 24°836'30 max. Earth dist. -5804 Jul 14 j 19:14 8°**Д**15'07 31.26006 AU max. Earth dist. -5810 Jul 01 j 23:38 25°**8**09'20 31.21143 AU morning rise -5804 Jul 31 j 10:59 8°**Ⅲ**52'10 retrograde -5804 Oct 25 j 15:25 10°**Ⅱ**43'44 conjunction -5810 Jul 03 j 02:32 25°**8**11'50 0°19'21 opposition -5803 Jan 11 j 03:20 9°**Ⅲ**22′00 0°56'33 minimum elong -5810 Jul 03 j 02:32 25°**8**11'50 0°19'37 min. Earth dist. -5803 Jan 12 j 02:45 9°**Ц**20'23 29.26533 AU morning rise -5810 Jul 18 j 21:21 25°846'50 direct -5803 Apr 02 i 10:56 7°**I**I56'54 retrograde -5810 Oct 13 i 04:57 27°**8**38'28 evening set -5803 Jul 02 j 12:36 9°**I**53′22 opposition -5810 Dec 29 i 09:22 26°816'33 0°23'26 max. Earth dist. -5803 Jul 17 j 05:13 10°**Д**25'59 31.26941 AU min. Earth dist. -5810 Dec 30 j 09:15 26°814'54 29.21483 AU -5809 Mar 20 j 12:14 24°851'13 -5803 Jul 18 j 06:46 10°**I**I28'22 0°55'27 direct conjunction -5809 Jun 19 j 15:32 26°**8**47'46 -5803 Jul 18 j 06:46 10°**Ⅲ**28′22 evening set minimum elong 0°55'47 -5803 Aug 02 j 21:04 11°**II**03'03 morning rise -5809 Jul 05 j 13:48 27°**8**23'03 0°24'39 -5803 Oct 28 j 02:58 12°**Ⅱ**54'39 conjunction retrograde -5809 Jul 05 j 13:48 27°**8**23'03 0°24'56 -5802 Jan 13 j 14:42 11°**Ⅱ**32'58 minimum elong opposition 1°01'49 -5809 Jul 04 j 12:03 27°**8**20'40 31.21753 AU -5802 Jan 14 j 14:14 11°**Д**31'21 29.27445 AU max. Earth dist. min. Earth dist. 10°**I**07'55 -5809 Jul 21 j 07:50 27°**8**58'00 -5802 Apr 04 j 22:20 morning rise direct -5809 Oct 15 j 13:30 29°**8**49'36 12°**∏**04'24 -5802 Jul 04 j 23:46 retrograde evening set -5809 Dec 31 j 20:11 28°**8**27'40 0°29'05 opposition -5802 Jul 20 j 17:22 -5808 Jan 01 j 20:55 28°**8**25'57 29.22117 AU 12°**耳**39'21 1°00'21 min. Earth dist. conjunction -5808 Mar 21 j 23:58 27°**8**02'20 -5802 Jul 20 j 17:22 12°**耳**39'21 1°00'41 direct minimum elong -5808 Jun 21 j 03:18 28°**8**58'50 -5802 Jul 19 j 16:46 12°**Ⅲ**37'03 31.27791 AU evening set max. Earth dist. max. Earth dist. -5808 Jul 05 j 22:18 29°**8**31'37 31.22425 AU morning rise -5802 Aug 05 j 06:54 13°**Ⅲ**13'59 retrograde -5802 Oct 30 j 12:12 15°**Ⅲ**05'37 -5808 Jul 07 j 00:48 conjunction 29°**8**34'05 0°29'55 opposition -5801 Jan 16 j 02:10 13°**Ⅲ**43'58 1°07'01 -5808 Jul 07 j 00:47 29°**8**34'05 0°30'12 min. Earth dist. -5801 Jan 17 j 02:04 13°**I**I42'20 29.28232 AU minimum elong -5808 Jul 18 j 16:04 $0^{\circ}II$ -5801 Apr 07 j 11:36 12°**Ⅱ**18'59 direct -5808 Jul 22 j 18:22 0°**Ⅱ**08'59 -5801 Jul 07 j 11:11 14°**Ⅱ**15′26 morning rise evening set -5808 Oct 16 j 23:00 2°**I**I00'32 max. Earth dist. -5801 Jul 22 j 02:06 14°**Д**47'56 31.28507 AU retrograde -5807 Jan 02 j 07:03 0°Д38'37 0°34'42 opposition -5801 Jul 23 i 03:55 14°**II**50'21 1°05'10 min. Earth dist. -5807 Jan 03 i 06:36 0°**Д**36'59 29.22835 AU conjunction -5807 Jan 26 j 12:08 -5801 Jul 23 i 03:55 30°R₩ minimum elong 14°**Ⅱ**50′21 1°05'30 29°**8**13'17 -5801 Aug 07 j 16:57 direct -5807 Mar 24 i 11:53 morning rise 15°**Ⅱ**24'56 -5801 Nov 01 j 23:20 17°**Ц**16'35 -5807 May 18 j 14:04 $\mathbb{I}^{\circ 0}$ retrograde -5807 Jun 23 i 14:49 1°**I**I09'46 opposition -5800 Jan 18 i 13:25 15°**Ⅲ**54'58 1°12'06 evening set max. Earth dist. -5807 Jul 08 j 10:12 1°**Д**42'35 31.23184 AU min. Earth dist. -5800 Jan 19 j 12:55 15°**Ⅱ**53'21 29.28887 AU direct -5800 Apr 08 j 23:44 14°**Ⅲ**30′00 -5807 Jul 09 j 11:46 1°**II**44'58 0°35'08 evening set -5800 Jul 08 j 22:23 16°**I**I26′27 conjunction 1°**П**44'58 0°35'26 minimum elong -5807 Jul 09 j 11:46 2°**Ⅱ**19'49 morning rise -5807 Jul 25 j 04:32 conjunction -5800 Jul 24 j 14:36 17°**I**101'19 1°09'53 -5800 Jul 24 j 14:35 17°**I**01'19 1°10'13 retrograde -5807 Oct 19 j 07:35 4°**Ⅱ**11'21 minimum elong opposition -5806 Jan 04 j 18:09 2°II49'27 0°40'15 max. Earth dist. -5800 Jul 23 j 13:43 16°**Ц**58'59 31.29076 AU -5806 Jan 05 j 18:25 2°**I**47'47 29.23658 AU -5800 Aug 09 j 02:48 17°**Ⅲ**35'51 min. Earth dist. morning rise -5806 Mar 26 j 22:44 1°**I**I24'10 -5800 Nov 03 j 08:27 19°**Ⅲ**27'32 direct retrograde -5806 Jun 26 j 02:21 3°**Ⅱ**20'37 -5799 Jan 20 j 01:02 18°**耳**05'55 1°17'05 evening set opposition -5799 Jan 21 j 01:30 18°**Ⅲ**04'14 29.29387 AU min. Earth dist. conjunction -5806 Jul 11 j 22:35 3°**I**55'46 0°40'19 direct -5799 Apr 11 j 12:10 16°**Ⅱ**40′59 minimum elong -5806 Jul 11 j 22:35 3°**I**I55'46 0°40'37 evening set -5799 Jul 11 j 09:32 18°**Ⅲ**37'24 max. Earth dist. -5806 Jul 10 j 20:58 3°**Д**53'23 31.24066 AU max. Earth dist. -5799 Jul 25 j 23:14 19°**Ⅲ**09'48 31.29510 AU morning rise -5806 Jul 27 j 14:49 4°**Ⅲ**30'35 -5806 Oct 21 j 18:00 6°**Ⅲ**22'06 -5799 Jul 27 j 00:53 19°**Ⅱ**12'12 1°14'30 retrograde conjunction -5805 Jan 07 j 05:06 5°**I**100'15 0°45'45 -5799 Jul 27 j 00:52 19°**Ⅱ**12'12 1°14'50 opposition minimum elong

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Earth dist. -5792 Aug 09 j 23:53 4°523'32 31.32003 AU conjunction -5798 Jul 29 j 11:14 21°**Ⅲ**22'59 1°19'00 morning rise -5792 Aug 26 j 05:36 4°959'49 minimum elong -5798 Jul 29 j 11:13 21°**Ⅲ**22'59 1°19'21 retrograde -5792 Nov 20 j 18:38 6°951'54 morning rise -5798 Aug 13 j 22:10 21°**Ⅲ**57'25 opposition -5791 Feb 06 j 22:05 5°**©**30'14 1°52'19 -5798 Nov 08 j 02:55 -5791 Feb 07 j 18:20 retrograde 23°**Ⅱ**49'09 min. Earth dist. 5°528'52 29.32378 AU opposition -5797 Jan 25 j 00:07 22°**Ⅲ**27′30 1°26'42 direct -5791 Apr 29 j 10:48 4°905'36 min. Earth dist. -5797 Jan 26 j 00:22 22°**Ц**25'50 29.30057 AU evening set -5791 Jul 28 j 21:45 6°901'45 direct -5797 Apr 16 j 11:11 21°**I**I02'36 max. Earth dist. -5791 Aug 12 j 11:06 6°934'14 31.32493 AU evening set -5797 Jul 16 j 07:13 22°II58'53 conjunction -5791 Aug 13 j 07:47 6°936'10 1°46'56 conjunction -5797 Jul 31 j 21:16 23°II33'36 1°23'23 minimum elong -5791 Aug 13 j 07:47 6°936'10 1°47'18 minimum elong -5797 Jul 31 j 21:15 23°**II**33'36 1°23'44 morning rise -5791 Aug 28 j 14:29 7°9510'20 max. Earth dist. -5797 Jul 30 j 20:26 23°**Д**31'17 31.30094 AU retrograde -5791 Nov 23 j 04:25 9°502'31 morning rise -5797 Aug 16 j 07:42 24°**I**108'01 opposition -5790 Feb 09 j 10:12 7°9540'52 1°56'04 retrograde -5797 Nov 10 j 12:50 25°**Ⅱ**59'45 min. Earth dist. -5790 Feb 10 i 06:57 7°539'28 29.32846 AU -5796 Jan 27 i 11:36 24°II38'05 1°31'20 -5790 May 01 j 23:12 6°9516'19 opposition direct min. Earth dist. -5796 Jan 28 i 10:37 24°II36'30 29.30308 AU evening set -5790 Jul 31 j 08:07 8°9512'26 -5796 Apr 17 j 22:43 23°II13'10 direct -5796 Jul 17 j 17:53 25°**Ⅱ**09'26 -5790 Aug 15 j 17:22 8°9346'49 1°50'22 conjunction evening set -5796 Aug 01 j 06:42 25°**Д**41'48 31.30338 AU -5790 Aug 15 j 17:21 1°50'43 max. Earth dist. 8°9546'49 minimum elong -5790 Aug 14 j 20:23 max. Earth dist. 8°544'51 31.32922 AU -5796 Aug 02 j 07:13 25°**II**44'05 1°27'38 -5790 Aug 30 j 23:39 9°920'57 conjunction morning rise -5796 Aug 02 j 07:12 -5790 Nov 25 j 14:19 25°**I**I44′05 1°28′00 11°9513'13 minimum elong retrograde -5796 Aug 17 j 16:58 -5789 Feb 11 j 22:05 26° II 18′27 9°951'35 1°59'38 morning rise opposition -5796 Nov 11 j 23:06 28°**Ⅲ**10′14 -5789 Feb 12 j 17:29 9°550'16 29.33230 AU retrograde min. Earth dist. -5795 Jan 28 j 23:14 26°**Ⅱ**48'32 1°35'49 -5789 May 04 j 11:06 8°927'05 opposition direct 26°**Ⅱ**46'57 29.30587 AU -5795 Jan 29 j 22:31 10°523'10 min. Earth dist. evening set -5789 Aug 02 j 18:18 direct -5795 Apr 20 j 09:49 25°**Ⅲ**23'39 max. Earth dist. -5789 Aug 17 j 06:49 10°555'37 31.33229 AU -5795 Jul 20 j 04:26 evening set 27°**Ⅲ**19'52 -5789 Aug 18 j 03:02 conjunction 10°957'30 1°53'38 conjunction -5795 Aug 04 j 17:08 27°**I**I54'28 1°31'46 minimum elong -5789 Aug 18 j 03:01 10°957'30 1°53'59 -5795 Aug 04 j 17:07 27°II54'28 1°32'07 morning rise -5789 Sep 02 j 08:41 11°931'36 minimum elong max. Earth dist. -5795 Aug 03 j 17:51 27°**Д**52'17 31.30644 AU retrograde -5789 Nov 27 j 23:30 13°9523'58 -5795 Aug 20 j 02:13 28°**Ⅲ**28'47 -5788 Feb 14 j 10:18 12°502'19 2°03'02 morning rise opposition -5795 Oct 10 j 13:06 0ಂಣ -5788 Feb 15 j 06:25 12°500'57 29.33478 AU min. Earth dist. -5795 Nov 14 j 09:48 0°9520'38 -5788 May 05 j 22:11 10°937'52 retrograde direct 12°533'54 -5795 Dec 20 j 06:45 30°R∏ -5788 Aug 04 j 04:31 evening set -5794 Jan 31 j 10:56 28°**II**58'55 1°40'10 opposition 28°**Д**57'24 29.30931 AU min. Earth dist. -5794 Feb 01 i 09:07 conjunction -5788 Aug 19 j 12:34 13°508'12 1°56'44 direct -5794 Apr 22 j 22:58 27°**I**I34'04 minimum elong -5788 Aug 19 i 12:34 13°9508'12 1°57'05 evening set -5794 Jul 22 i 14:50 29°**Ⅲ**30′15 max. Earth dist. -5788 Aug 18 i 16:33 13°506'19 31.33400 AU -5794 Aug 04 i 23:25 0ಂತಾ morning rise -5788 Sep 03 i 17:45 13°5542'16 max. Earth dist. -5794 Aug 06 j 03:21 0°502'37 31.31028 AU -5788 Nov 29 j 09:36 15°934'43 retrograde -5787 Feb 15 i 22:27 14°513'02 2°06'16 opposition -5787 Feb 16 i 17:18 -5794 Aug 07 j 02:44 0°904'48 1°35'47 min. Earth dist. 14°511'45 29.33569 AU conjunction minimum elong -5794 Aug 07 j 02:43 0°೨೦4'48 1°36'08 12°9548'37 direct -5787 May 08 j 10:07 -5794 Aug 22 j 11:19 14°9544'35 morning rise 0°939'05 evening set -5787 Aug 06 j 14:42 -5794 Nov 16 j 21:13 2°931'00 retrograde -5793 Feb 02 j 22:36 1°509'17 1°44'22 conjunction -5787 Aug 21 j 22:08 15°9518'50 1°59'40 opposition min. Earth dist. -5793 Feb 03 j 20:10 1°507'49 29.31371 AU minimum elong -5787 Aug 21 j 22:07 15°9518'50 2°00'01 30°RⅡ -5787 Aug 21 j 02:10 -5793 Mar 24 j 15:19 max. Earth dist. 15°516'57 31.33410 AU -5793 Apr 25 j 09:32 29°**Ⅱ**44'30 direct morning rise -5787 Sep 06 j 02:49 15°952'52 -5793 May 26 j 15:14 0ಂತಾ retrograde -5787 Dec 01 j 20:05 17°9545'24 evening set -5793 Jul 25 j 01:08 1°9540'40 opposition -5786 Feb 18 j 10:47 16°9523'40 2°09'19 min. Earth dist. -5786 Feb 19 j 06:00 16°522'22 29.33525 AU conjunction -5793 Aug 09 j 12:32 2°515'10 1°39'38 direct -5786 May 10 j 20:59 14°959'16 minimum elong -5793 Aug 09 j 12:31 2°9515'10 1°39'59 evening set -5786 Aug 09 j 00:34 16°955'08 max. Earth dist. -5793 Aug 08 j 14:46 2°513'08 31.31496 AU -5793 Aug 24 j 20:24 2°549'25 -5786 Aug 24 j 07:31 17°**©**29'21 morning rise conjunction 2°02'26 4°5541'24 -5786 Aug 24 j 07:31 17°**5**29'21 retrograde -5793 Nov 19 j 06:39 minimum elong 2°02'47

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Earth dist. -5779 Sep 23 j 00:38 morning rise 3°**Ω**14′04 conjunction -5785 Aug 26 j 16:48 19°**©**39'44 2°05'01 retrograde -5779 Dec 19 j 07:39 5°**Ω**07′25 minimum elong -5785 Aug 26 j 16:48 19°**©**39'44 2°05'22 opposition -5778 Mar 08 j 13:17 3°**Ω**45'19 2°26'44 3°Ω44'32 29.32605 AU max. Earth dist. -5785 Aug 25 j 21:40 19°**9**37'56 31.33075 AU min. Earth dist. -5778 Mar 09 j 01:04 -5785 Sep 10 j 20:39 morning rise 20°9513'41 direct -5778 May 28 j 19:34 2°**Ω**21'16 -5785 Dec 06 j 17:34 retrograde 22°906'22 evening set -5778 Aug 26 j 04:50 4°Ω16'38 opposition -5784 Feb 23 j 11:06 20°5544'29 2°14'51 min. Earth dist. -5784 Feb 24 j 04:55 20°5643'17 29.33109 AU conjunction -5778 Sep 10 j 07:53 4°Ω50'36 2°17'59 direct -5784 May 14 j 19:49 19°9520'05 minimum elong -5778 Sep 10 j 07:53 4°Ω50'36 2°18'17 evening set -5784 Aug 12 j 20:12 21°9515'48 max. Earth dist. -5778 Sep 09 j 19:28 4°**Ω**49'26 31.32437 AU max. Earth dist. -5784 Aug 27 j 08:45 21°5548'18 31.32814 AU morning rise -5778 Sep 25 j 09:20 5°**Ω**24'27 retrograde -5778 Dec 21 j 18:43 7°Ω17'57 conjunction -5784 Aug 28 j 02:05 21°549'56 2°07'26 opposition -5777 Mar 11 j 01:56 5°**Ω**55'51 2°28'00 minimum elong -5784 Aug 28 j 02:05 21°9549'55 2°07'46 min. Earth dist. -5777 Mar 11 j 13:45 5°**Ω**55'03 29.32618 AU morning rise -5784 Sep 12 i 05:22 22°523'52 direct -5777 May 31 i 05:36 4°Ω31'53 retrograde -5784 Dec 08 i 03:13 24°9516'36 evening set -5777 Aug 28 j 14:10 6°Ω27'13 opposition -5783 Feb 24 i 23:28 22°954'39 2°17'20 min. Earth dist. -5783 Feb 25 i 16:45 22°953'29 29.32850 AU conjunction -5777 Sep 12 i 16:58 7°Ω01'10 2°19'04 -5783 May 17 j 09:07 21°930'16 -5777 Sep 12 j 16:58 7°Ω01'10 2°19'21 direct minimum elong -5783 Aug 15 j 05:49 23°925'53 -5777 Sep 12 j 06:02 7°**Ω**00'08 31.32405 AU evening set max. Earth dist. -5777 Sep 27 j 18:03 7°Ω34'59 morning rise -5783 Aug 30 j 11:00 -5777 Dec 24 j 05:19 9°**Ω**28'38 conjunction 23°959'59 2°09'40 retrograde 8°\$\O6'31 2°29'03 -5783 Aug 30 j 11:00 -5776 Mar 12 j 14:28 minimum elong 23°959'59 2°09'59 opposition -5776 Mar 13 j 01:17 -5783 Aug 29 j 17:36 8°**Ω**05'48 29.32529 AU max. Earth dist. 23°958'20 31.32576 AU min. Earth dist. -5783 Sep 14 j 14:02 24°**©**33'53 -5776 Jun 01 j 16:57 6°**Ω**42'38 morning rise direct -5783 Dec 10 j 15:16 26°526'43 -5776 Aug 29 j 23:40 8°**Ω**37'55 retrograde evening set -5782 Feb 27 j 11:46 25°504'42 2°19'37 opposition -5782 Feb 28 j 03:25 25°503'38 29.32655 AU -5776 Sep 14 j 01:58 9°Ω11'51 2°19'56 min. Earth dist. conjunction -5776 Sep 14 j 01:58 9°Ω11'51 2°20'14 direct -5782 May 19 j 21:14 23°9540'20 minimum elong -5776 Sep 13 j 14:42 9°**Ω**10'47 31.32261 AU evening set -5782 Aug 17 j 15:17 25°**©**35'54 max. Earth dist. morning rise -5776 Sep 29 j 02:59 9°**Ω**45'40 conjunction -5782 Sep 01 j 20:09 26°909'57 2°11'42 retrograde -5776 Dec 25 j 17:39 11°**Ω**39'28 -5782 Sep 01 j 20:09 26°9509'57 2°12'02 opposition -5775 Mar 15 j 03:18 10°**Ω**17'19 2°29'53 minimum elong max. Earth dist. -5782 Sep 01 j 04:40 26°508'30 31.32412 AU min. Earth dist. -5775 Mar 15 j 13:26 10°Ω16'38 29.32331 AU -5782 Sep 16 j 22:39 26°9543'50 -5775 Jun 04 j 02:19 8°**£**53′29 morning rise direct -5782 Dec 13 j 01:02 28°936'47 -5775 Sep 01 j 08:52 10°**Ω**48'42 retrograde evening set -5781 Mar 02 j 00:02 27°514'43 2°21'42 opposition -5781 Mar 02 j 15:37 27°513'39 29.32543 AU -5775 Sep 16 j 11:02 11° Ω 22'36 2°20'38 min. Earth dist. conjunction -5775 Sep 16 j 11:02 direct -5781 May 22 j 09:15 25°950'24 minimum elong 11°Ω22'37 2°20'54 11°**Ω**21'42 31.31988 AU evening set -5781 Aug 20 j 00:48 27°9545'54 max. Earth dist. -5775 Sep 16 i 01:26 morning rise -5775 Oct 01 j 11:44 11°Ω56'26 conjunction -5781 Sep 04 i 05:06 28°9519'56 2°13'34 retrograde -5775 Dec 28 i 04:21 13°Ω50'22 -5781 Sep 04 i 05:06 28°919'56 2°13'53 opposition -5774 Mar 17 j 16:11 12°Ω28'09 2°30'31 minimum elong max. Earth dist. -5781 Sep 03 j 14:00 28°518'31 31.32351 AU min. Earth dist. -5774 Mar 18 j 01:59 12°Ω27'30 29.31983 AU -5781 Sep 19 j 07:24 28°953'48 -5774 Jun 06 j 15:17 11°**Ω**04'22 morning rise direct -5774 Sep 03 j 18:17 -5781 Oct 22 j 19:22 $0^{\circ}\Omega$ 12°**Ω**59'30 evening set retrograde -5781 Dec 15 j 11:22 0°**Ω**46'51 -5780 Feb 10 j 00:50 30°R55 conjunction -5774 Sep 18 j 20:03 13°**Q**33'24 2°21'07 opposition -5780 Mar 03 j 12:18 29°524'47 2°23'35 minimum elong -5774 Sep 18 j 20:03 13°**Ω**33'24 2°21'23 min. Earth dist. -5780 Mar 04 j 01:50 29°523'52 29.32521 AU max. Earth dist. -5774 Sep 18 j 10:03 13°**Ω**32'27 31.31578 AU -5780 May 23 j 21:09 28°900'32 -5774 Oct 03 j 20:47 14°Ω07'12 direct morning rise -5780 Aug 21 j 10:09 29°956'00 -5774 Oct 29 j 14:20 15°**Ω** evening set -5780 Aug 23 j 05:38 $0^{\circ}\Omega$ -5774 Dec 30 j 17:33 16°**Ω**01'15 retrograde -5773 Mar 07 j 00:41 15°RΩ conjunction -5780 Sep 05 j 14:03 0°**Ω**30'01 2°15'14 opposition -5773 Mar 20 j 04:48 14°**Ω**38'58 2°30'56 minimum elong -5780 Sep 05 j 14:03 0°**Ω**30'01 2°15'33 min. Earth dist. -5773 Mar 20 j 13:20 14°**Ω**38'23 29.31512 AU max. Earth dist. -5780 Sep 05 j 00:15 0°**Ω**28'43 31.32354 AU direct -5773 Jun 09 j 03:02 13°**Ω**15′12 morning rise -5780 Sep 20 j 15:57 1°**Ω**03′52 -5773 Sep 01 j 11:09 15°€ -5780 Dec 16 j 21:07 2° **Q**57′04 -5773 Sep 06 j 03:27 15°**Ω**10'14 retrograde evening set -5779 Mar 06 j 00:50 1°**Ω**34'58 2°25'16 opposition

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Earth dist. -5772 Mar 22 j 02:24 16°**Ω**49'08 29.30931 AU conjunction 0° Mp 57'44 2° 17'58 -5766 Oct 05 j 18:55 direct -5772 Jun 10 j 14:52 15°**Ω**25'58 minimum elong evening set -5772 Sep 07 j 12:32 17°**Ω**20'53 max. Earth dist. -5766 Oct 05 j 18:14 0° m 57'41 31.27755 AU morning rise -5766 Oct 20 j 19:37 1° m 31'37 conjunction -5772 Sep 22 j 13:54 17°**Ω**54'46 2°21'29 retrograde -5765 Jan 17 j 07:43 3°m 26'39 -5772 Sep 22 j 13:54 17°**Ω**54'46 2°21'45 -5765 Apr 07 j 11:44 minimum elong opposition 2° m 03'49 2°26'30 -5772 Sep 22 j 05:54 -5765 Apr 07 j 12:28 max. Earth dist. 17°**Ω**54'00 31.30442 AU min. Earth dist. 2° Mp 03'46 29.27758 AU morning rise -5772 Oct 07 j 14:26 18°**Ω**28'34 direct -5765 Jun 26 j 22:24 0° Mp 40'26retrograde -5771 Jan 03 j 14:42 20°**Ω**22'49 evening set -5765 Sep 23 j 03:05 2° m 34'44 opposition -5771 Mar 24 j 06:30 19°**Ω**00'20 2°31'07 min. Earth dist. -5771 Mar 24 j 13:10 18°**Ω**59'54 29.30311 AU conjunction -5765 Oct 08 j 03:51 3° Mp 08'36 2°16'26 direct -5771 Jun 13 j 03:45 17°**Ω**36'36 minimum elong -5765 Oct 08 j 03:51 3° m 08'36 2°16'37 evening set -5771 Sep 09 j 21:32 19°**Ω**31'25 max. Earth dist. -5765 Oct 08 j 03:05 3° 10 08'31 31.27413 AU morning rise -5765 Oct 23 j 04:50 3° m 42'30 conjunction -5771 Sep 24 j 22:46 20°Ω05'17 2°21'22 retrograde -5764 Jan 19 j 21:33 5° m 37'40 minimum elong -5771 Sep 24 i 22:46 20°Ω05'17 2°21'37 opposition -5764 Apr 09 i 00:46 4° m 14'49 2°24'59 max. Earth dist. -5771 Sep 24 i 15:58 20°**Ω**04'38 31.29821 AU min. Earth dist. -5764 Apr 09 i 00:02 4° m 14'52 29.27379 AU morning rise -5771 Oct 09 j 23:14 20°**Ω**39'05 direct -5764 Jun 28 i 08:50 2° m 51'30 retrograde -5770 Jan 06 j 01:07 22°**Ω**33'26 evening set -5764 Sep 24 j 11:59 4° m 45'44 -5770 Mar 26 j 19:24 21°Ω10'52 2°30'53 opposition -5770 Mar 27 j 01:57 21°**Ω**10'25 29.29719 AU -5764 Oct 09 j 12:52 5° m 19'37 2°14'55 min. Earth dist. conjunction 19°**Ω**47'09 -5764 Oct 09 j 12:52 5° m 19'37 2°15'06 direct -5770 Jun 15 j 15:41 minimum elong -5770 Sep 12 j 06:25 -5764 Oct 09 j 13:39 5° To 19'41 31.26979 AU 21°**Ω**41'51 max. Earth dist. evening set -5764 Oct 24 j 13:55 5° m 53'32 morning rise -5770 Sep 27 j 07:33 22° Ω 15'42 2°21'03 -5763 Jan 21 j 08:53 7° m 48'53 conjunction retrograde -5770 Sep 27 j 07:33 -5763 Apr 11 j 14:02 opposition 6° m 25'58 2°23'15 22°**Ω**15'42 2°21'18 minimum elong -5770 Sep 27 j 02:07 max. Earth dist. 22°**Ω**15'11 31.29264 AU min. Earth dist. -5763 Apr 11 j 13:28 6° Mp 26'01 29.26887 AU -5770 Oct 12 j 08:00 22° **Ω**49'31 -5763 Jun 30 j 19:55 5° Mp 02'43 morning rise direct -5769 Jan 08 j 11:28 24°**Ω**43'58 -5763 Sep 26 j 21:08 6° m 56'53 retrograde evening set -5769 Mar 29 j 08:08 23°**Ω**21'19 2°30'27 opposition -5769 Mar 29 j 12:31 23°**Ω**21'02 29.29192 AU -5763 Oct 11 j 22:03 7° m/30'47 2°13'12 min. Earth dist. conjunction direct -5769 Jun 18 j 04:08 21°**Ω**57'38 minimum elong -5763 Oct 11 j 22:03 7° m/30'47 2°13'22 -5769 Sep 14 j 15:24 23°**Ω**52'14 max. Earth dist. -5763 Oct 11 j 23:10 7° m/30'53 31.26435 AU evening set morning rise -5763 Oct 26 j 23:22 8° Mp 04'44conjunction -5769 Sep 29 j 16:18 24°Ω26'05 2°20'32 retrograde -5762 Jan 23 j 21:23 10° m 00'12 -5769 Sep 29 j 16:18 24°Ω26'05 2°20'45 -5762 Apr 14 j 03:04 8°m/37'15 2°21'19 minimum elong opposition -5769 Sep 29 j 11:25 24°**Ω**25'38 31.28778 AU min. Earth dist. -5762 Apr 14 j 00:47 8° m/37'24 29.26266 AU max. Earth dist. -5769 Oct 14 j 16:50 24° **Ω**59'55 -5762 Jul 03 j 08:20 7° m 14'02 morning rise direct -5768 Jan 10 j 21:56 26°**Ω**54'30 -5762 Sep 29 j 06:12 9° m 08'07 retrograde evening set -5768 Mar 30 j 20:58 25°Ω31'47 2°29'47 opposition -5762 Oct 14 i 07:14 9° m 42'02 2°11'17 min. Earth dist. -5768 Mar 31 i 00:53 25°Ω31'31 29.28758 AU conjunction 9° m 42'02 2°11'27 direct -5768 Jun 19 j 14:05 24°Ω08'09 minimum elong -5762 Oct 14 i 07:14 9° m 42'12 31.25735 AU evening set -5768 Sep 16 j 00:15 26°Ω02'40 max. Earth dist. -5762 Oct 14 i 08:54 morning rise -5762 Oct 29 j 08:49 10° m 16'01 -5768 Oct 01 i 01:12 26°Ω36'31 2°19'49 retrograde -5761 Jan 26 j 09:17 12° m 11'37 conjunction -5768 Oct 01 j 01:12 26°Ω36'31 2°20'02 -5761 Apr 16 j 16:19 10° m 48'35 2°19'10 minimum elong opposition -5768 Sep 30 j 22:24 26°**Ω**36'15 31.28392 AU min. Earth dist. -5761 Apr 16 j 14:22 10° Mp 48'43 29.25490 AU max. Earth dist. -5768 Oct 16 j 01:40 27°**Ω**10′22 morning rise direct -5761 Jul 05 j 20:10 9° m 25'25 29°**Ω**05'05 retrograde -5767 Jan 12 j 08:00 evening set -5761 Oct 01 j 15:12 11° Mp 19'24 opposition -5767 Apr 02 j 09:54 27°**Ω**42'20 2°28'54 min. Earth dist. -5767 Apr 02 j 12:13 27°**Ω**42'10 29.28396 AU conjunction -5761 Oct 16 j 16:25 11° m 53'20 2°09'12 -5767 Jun 22 j 01:27 26°**Ω**18'46 -5761 Oct 16 j 16:26 11° Mp 53'20 2°09'20 direct minimum elong -5767 Sep 18 j 09:08 28°**Ω**13'12 -5761 Oct 16 j 19:09 11° m 53'35 31.24896 AU evening set max. Earth dist. -5761 Oct 31 j 18:13 morning rise 12° m 27'20 -5767 Oct 03 j 09:53 28°**Ω**47'03 2°18'54 -5760 Jan 28 j 20:22 conjunction retrograde 14° m 23'03 minimum elong -5767 Oct 03 j 09:53 28°**Ω**47'03 2°19'06 opposition -5760 Apr 18 j 05:22 12° m 59'56 2°16'50 max. Earth dist. -5767 Oct 03 j 07:14 28°**Ω**46'48 31.28066 AU min. Earth dist. -5760 Apr 18 j 01:43 13° m 00'11 29.24572 AU morning rise -5767 Oct 18 j 10:37 29°**Ω**20'55 direct -5760 Jul 07 j 08:59 11° Mp 36'47 -5767 Nov 05 j 23:05 0° m evening set -5760 Oct 03 j 00:16 13° m 30'40 -5766 Jan 14 j 20:45 1° m) 15'47 retrograde -5766 Mar 31 j 14:33 30°R€ -5760 Oct 18 j 01:32 14° m 04'36 2°06'55 conjunction

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 12 Attention, astronomical year style is used: The year -5760 in astronomical counting style is the year 5761 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ie year -5760 i	in astronomical co	unting style is the year	r 5761 BCE in historical c	ounting style.	7.00
minimum elong	-5760 Oct 18 j 01:33	14° m 04'36	2°07'03	evening set	-5753 Oct 18 j 14:49	28° m 49'44	
max. Earth dist.	-5760 Oct 18 j 04:23	14° m 04'52	31.23937 AU				
morning rise	-5760 Nov 02 j 03:46	14° m 38'39		conjunction	-5753 Nov 02 j 17:59	29° Mp 23'52	1°46'01
retrograde	-5759 Jan 30 j 07:19	16° Mp 34′29		minimum elong	-5753 Nov 02 j 18:00	29° m 23'52	1°46'03
opposition	-5759 Apr 20 j 18:37	15° TQ 11'15	2°14'18	max. Earth dist.	-5753 Nov 03 j 04:31	•	31.18020 AU
min. Earth dist.	-5759 Apr 20 j 14:51		29.23582 AU	morning rise	-5753 Nov 17 j 23:00	29° m 58'11	
direct	-5759 Jul 09 j 19:26	13° m 48'07			-5753 Nov 18 j 18:38	0∘ ⊽	
evening set	-5759 Oct 05 j 09:02	15° m 41'52		retrograde	-5752 Feb 15 j 20:55	1° ≏ 54'55	
				opposition	-5752 May 06 j 14:05	0° ჲ 31'11	
conjunction	-5759 Oct 20 j 10:41	16°Mp 15'50		min. Earth dist.	-5752 May 06 j 03:12	0° ჲ 31'55	29.17775 AU
minimum elong	-5759 Oct 20 j 10:42	16° Mp 15'50			-5752 May 26 j 06:19	30°₽, Mp	
max. Earth dist.	-5759 Oct 20 j 15:31		31.22933 AU	direct	-5752 Jul 24 j 23:38	29° Mp 08'20	
morning rise	-5759 Nov 04 j 13:07	16° m 49'54			-5752 Sep 19 j 09:20	0∘ ⊽	
retrograde	-5758 Feb 01 j 17:14	18° m 45'51		evening set	-5752 Oct 19 j 23:58	1° ≏ 01'31	
opposition	-5758 Apr 23 j 07:43	17° m 22'31				_	
min. Earth dist.	-5758 Apr 23 j 02:31		29.22562 AU	conjunction	-5752 Nov 04 j 03:35	1° ≏ 35'42	
direct	-5758 Jul 12 j 07:21	15° m 59'23		minimum elong	-5752 Nov 04 j 03:35	1° ≏ 35'42	
evening set	-5758 Oct 07 j 18:05	17° m 53'01		max. Earth dist.	-5752 Nov 04 j 15:25		31.17306 AU
				morning rise	-5752 Nov 19 j 08:59	2° £ 10'04	
conjunction	-5758 Oct 22 j 19:46	18° m 27'01		retrograde	-5751 Feb 17 j 08:55	4° Ω 06'55	
minimum elong	-5758 Oct 22 j 19:47	18° m 27'01		opposition	-5751 May 09 j 03:10	2° ≙ 43'08	
max. Earth dist.	-5758 Oct 23 j 00:36	-	31.21934 AU	min. Earth dist.	-5751 May 08 j 14:36		29.17015 AU
morning rise	-5758 Nov 06 j 22:43	19° m 01'07		direct	-5751 Jul 27 j 12:01	1° ≏ 20′20	
retrograde	-5757 Feb 04 j 05:52	20° m 57'10		evening set	-5751 Oct 22 j 09:18	3° ≏ 13'27	
opposition	-5757 Apr 25 j 20:38	19° m 33'44					
min. Earth dist.	-5757 Apr 25 j 14:26		29.21594 AU	conjunction	-5751 Nov 06 j 13:09	3° ≏ 47'40	
direct	-5757 Jul 14 j 16:47	18° m 10'38		minimum elong	-5751 Nov 06 j 13:10	3° ≏ 47'40	
evening set	-5757 Oct 10 j 02:57	20° Mp 04'10		max. Earth dist.	-5751 Nov 07 j 00:52		31.16505 AU
				morning rise	-5751 Nov 21 j 19:13	4° £ 22'05	
conjunction	-5757 Oct 25 j 05:01	20°M 38'11	1°59'00	retrograde	-5750 Feb 19 j 20:59	6° ≏ 19'04	
minimum elong	-5757 Oct 25 j 05:02	20°m/38'11		opposition	-5750 May 11 j 16:26	4° £ 55'13	
max. Earth dist.	-5757 Oct 25 j 11:57	20° Mp 38'50	31.21000 AU	min. Earth dist.	-5750 May 11 j 04:03	4° £ 56'03	29.16160 AU
morning rise	-5757 Nov 09 j 08:10	21°Mp 12'20		direct	-5750 Jul 29 j 22:40	3° ჲ 32'27	
retrograde	-5756 Feb 06 j 16:36	23°Mp08'30		evening set	-5750 Oct 24 j 18:40	5° Ω 25'29	
opposition	-5756 Apr 27 j 09:44	21° m 44'59	2°05'34				
min. Earth dist.	-5756 Apr 27 j 02:34		29.20696 AU	conjunction	-5750 Nov 08 j 23:04	5° Ω 59'44	
direct	-5756 Jul 16 j 04:25	20°m/21'55		minimum elong	-5750 Nov 08 j 23:05	5° Ω 59'44	1°34'36
evening set	-5756 Oct 11 j 11:50	22° Mp 15'22		max. Earth dist.	-5750 Nov 09 j 12:19		31.15589 AU
				morning rise	-5750 Nov 24 j 05:28	6° £ 34'11	
conjunction	-5756 Oct 26 j 14:02	22° m 49'24		retrograde	-5749 Feb 22 j 07:50	8° ≏ 31'16	
minimum elong	-5756 Oct 26 j 14:03	22° m 49'24	1°56'05	opposition	-5749 May 14 j 05:25	7° ≏ 07'21	1°38'54
max. Earth dist.	-5756 Oct 26 j 21:19	22° m 50'05	31.20164 AU	min. Earth dist.	-5749 May 13 j 16:06		29.15164 AU
morning rise	-5756 Nov 10 j 17:44	23°m/23'35		direct	-5749 Aug 01 j 11:17	5° ≏ 44'36	
retrograde	-5755 Feb 08 j 06:27	25° m 19'54		evening set	-5749 Oct 27 j 04:12	7° ≏ 37'33	
opposition	-5755 Apr 29 j 22:49	23° m 56'19					
min. Earth dist.	-5755 Apr 29 j 13:50		29.19900 AU	conjunction	-5749 Nov 11 j 08:51	8° ≏ 11'50	
direct	-5755 Jul 18 j 14:05	22°m/33'17		minimum elong	-5749 Nov 11 j 08:52	8° ≏ 11'50	
evening set	-5755 Oct 13 j 20:46	24° TD 26'40		max. Earth dist.	-5749 Nov 11 j 21:34		31.14540 AU
				morning rise	-5749 Nov 26 j 15:57	8° ≏ 46'20	
conjunction	-5755 Oct 28 j 23:22	25° TD 00'44	1°52'51	retrograde	-5748 Feb 24 j 20:58	10° ≏ 43'31	
minimum elong	-5755 Oct 28 j 23:22	25° m 00'44	1°52'55	opposition	-5748 May 15 j 18:37	9° Ω 19'30	
max. Earth dist.	-5755 Oct 29 j 08:21	-	31.19406 AU	min. Earth dist.	-5748 May 15 j 04:49		29.14052 AU
morning rise	-5755 Nov 13 j 03:24	25° m 34'58		direct	-5748 Aug 02 j 21:26	7° ≏ 56'45	
retrograde	-5754 Feb 10 j 17:56	27° TD 31'25		evening set	-5748 Oct 28 j 13:28	9° £ 49'35	
opposition	-5754 May 02 j 11:52	26° Mp 07'47					
min. Earth dist.	-5754 May 02 j 02:45		29.19171 AU	conjunction	-5748 Nov 12 j 18:42	10° £ 23'54	
direct	-5754 Jul 21 j 00:02	24° m 44'48		minimum elong	-5748 Nov 12 j 18:43	10° ≏ 23'54	
evening set	-5754 Oct 16 j 05:46	26° TD 38'07		max. Earth dist.	-5748 Nov 13 j 09:01		31.13375 AU
			40.40/-	morning rise	-5748 Nov 28 j 02:14	10° £ 58'27	
conjunction	-5754 Oct 31 j 08:40	27° m 12'13	1°49'31	retrograde	-5747 Feb 26 j 07:11	12° £ 55'43	
minimum elong	-5754 Oct 31 j 08:41	27° Mp 12'13	1°49'34	opposition	-5747 May 18 j 07:46	11° ≏ 31'35	
max. Earth dist.	-5754 Oct 31 j 18:28	27° m 13'09	31.18715 AU	min. Earth dist.	-5747 May 17 j 17:32	11° △ 32'33	29.12835 AU
morning rise	-5754 Nov 15 j 13:13	27° m 46'29		direct	-5747 Aug 05 j 09:18	10° Ω 08'49	
retrograde	-5753 Feb 13 j 07:34	29° m 43'04		evening set	-5747 Oct 30 j 22:56	12° ≏ 01'32	
opposition	-5753 May 05 j 00:52	28° m 19'24	1°55'09				
min. Earth dist.	-5753 May 04 j 13:48		29.18480 AU	conjunction	-5747 Nov 15 j 04:33	12° △ 35'53	
direct	-5753 Jul 23 j 12:20	26° TD 56'29		minimum elong	-5747 Nov 15 j 04:34	12° ≏ 35'53	1°21'55

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5747 in astronomical counting style is the year 5748 BCE in historical counting style. -5747 Nov 15 i 18:49 12°**△**37'14 31.12150 AU conjunction -5740 Nov 30 i 03:04 28°**♀**00'36 0°48'33 max. Earth dist. minimum elong -5747 Nov 30 j 12:46 -5740 Nov 30 j 03:04 28°**£**00'36 0°48'25 morning rise 13°**Ω**10'30 -5746 Feb 28 j 20:24 15°**♀**07'50 -5740 Nov 30 j 23:24 28°**2**02'31 31.05459 AU retrograde max. Earth dist. 13°**2**43'35 1°25'11 -5740 Dec 15 j 15:29 -5746 May 20 j 20:35 morning rise 28°**♀**35'35 opposition -5746 May 20 j 05:04 13°**△**44'38 29.11597 AU -5739 Jan 29 j 11:19 min. Earth dist. 0°M 0°M33'39 direct -5746 Aug 07 j 19:07 12°**£**20'46 retrograde -5739 Mar 16 j 14:18 -5746 Nov 02 j 08:22 evening set 14°**£**13'25 -5739 May 03 j 05:20 30°**₹**Ω 0°49'05 29°**₽**09'00 opposition -5739 Jun 05 j 14:36 conjunction -5746 Nov 17 j 14:29 14°**≏**47'48 1°17'31 min. Earth dist. -5739 Jun 04 j 17:46 29°**₽**10'25 29.05140 AU -5746 Nov 17 j 14:30 minimum elong 14°**£**47'48 1°17'27 direct -5739 Aug 23 j 00:42 27°**-**46′23 max. Earth dist. -5746 Nov 18 j 06:06 14°**2**49'16 31.10913 AU evening set -5739 Nov 17 j 04:09 29°**£**38'44 -5739 Nov 26 j 15:47 morning rise -5746 Dec 02 j 23:14 15°**£**22'27 0°M retrograde -5745 Mar 03 j 07:45 17°**♀**19'52 -5739 Dec 02 j 13:47 opposition -5745 May 23 j 09:34 15°**♀**55'30 1°20'21 conjunction 0°M₁3′26 0°43'25 min. Earth dist. -5745 May 22 j 18:04 15°**♀**56'34 29.10383 AU minimum elong -5739 Dec 02 j 13:48 0° M 13'260°43'15 direct -5745 Aug 10 j 05:29 14°**△**32'41 max. Earth dist. -5739 Dec 03 j 11:31 0°M₁5′29 31.04724 AU evening set -5745 Nov 04 j 17:43 16°**£**25'14 morning rise -5739 Dec 18 j 02:40 $0^{\circ}M48'28$ retrograde -5738 Mar 19 j 00:55 2°M46'39 conjunction -5745 Nov 20 j 00:18 16°**♀**59'39 1°12'56 min. Earth dist. -5738 Jun 07 j 06:22 1°M23'25 29.04373 AU minimum elong -5745 Nov 20 j 00:19 16°**♀**59'40 1°12'51 opposition -5738 Jun 08 j 03:19 1°M21'59 0°43'32 max. Earth dist. -5745 Nov 20 j 16:50 17°**2**01'13 31.09749 AU -5738 Aug 19 j 11:25 morning rise -5745 Dec 05 i 09:35 17°**♀**34'22 direct -5738 Aug 25 j 12:00 29°**♀**59'24 retrograde -5744 Mar 04 j 21:24 19°**♀**31'52 -5738 Aug 31 j 10:10 0°M opposition -5744 May 24 j 22:24 18°**♀**07'25 1°15'24 evening set -5738 Nov 19 j 14:28 1°M51'44 min. Earth dist. -5744 May 24 j 04:54 18°**≏**08'36 29.09262 AU -5744 Aug 11 i 17:26 16°**£**44'35 -5738 Dec 05 j 00:33 2°M26'29 0°38'12 direct conjunction -5744 Nov 06 j 03:16 18°**♀**37'05 -5738 Dec 05 j 00:33 0°38'03 evening set minimum elong 2°M-26'29 -5738 Dec 05 j 21:51 2°M28'29 31.03928 AU max. Earth dist. -5744 Nov 21 j 10:15 19°**♀**11'32 1°08'15 morning rise -5738 Dec 20 j 14:07 conjunction 3°M01'34 -5744 Nov 21 j 10:16 -5737 Mar 21 j 14:49 4°M59'51 minimum elong 19°**£**11'33 1°08'11 retrograde -5744 Nov 22 j 03:29 -5737 Jun 10 j 16:08 max. Earth dist. 19°**£**13'10 31.08685 AU opposition 3°M35'09 0°37'56 -5744 Dec 06 j 20:12 19°**≏**46'18 min. Earth dist. -5737 Jun 09 j 18:22 3°M36'38 29.03527 AU morning rise -5743 Mar 07 j 10:51 21°**≏**43'54 -5737 Aug 27 j 21:31 2°M12'34 retrograde direct -5743 May 27 j 11:20 20°**№**19'22 1°10'21 -5737 Nov 22 j 00:44 4°ML04'53 opposition evening set 20°**£**20'33 29.08263 AU -5743 May 26 j 17:53 min. Earth dist. -5737 Dec 07 j 11:21 4°MJ39'40 0°32'56 direct -5743 Aug 14 j 04:04 18°**≏**56'33 conjunction -5743 Nov 08 j 12:44 -5737 Dec 07 j 11:21 evening set 20°**♀**49'00 minimum elong 4°M39'40 0°32'45 max. Earth dist. -5737 Dec 08 j 09:22 4°ML41'45 31.03018 AU conjunction -5743 Nov 23 j 20:22 21°**≏**23'31 1°03'28 morning rise -5737 Dec 23 j 01:28 5°M14'48 minimum elong -5743 Nov 23 j 20:23 21°**≙**23'31 1°03'22 retrograde -5736 Mar 23 j 02:33 7°ML13'12 max. Earth dist. -5743 Nov 24 j 15:09 21°**♀**25'18 31.07755 AU min. Earth dist. -5736 Jun 11 j 07:54 5°M49'53 29.02557 AU -5743 Dec 09 j 06:49 21°**♀**58'19 -5736 Jun 12 j 05:05 5°M48'25 0°32'17 morning rise opposition -5742 Mar 09 j 23:23 23°**♀**56'02 -5736 Aug 29 j 07:46 4°M25'51 retrograde direct -5742 May 29 j 04:44 22°**♀**32'47 29.07377 AU -5736 Nov 23 j 11:11 6°ML18′07 min. Earth dist. evening set -5742 May 30 j 00:05 22°**♀**31'28 opposition 1°05'11 -5736 Dec 08 j 22:22 direct -5742 Aug 16 i 16:07 21°**♀**08'41 conjunction 6°ML52'56 0°27'37 evening set -5742 Nov 10 j 22:29 23°**₽**01'06 minimum elong -5736 Dec 08 i 22:23 6°ML52'56 0°27'27 max. Earth dist. -5736 Dec 09 i 20:38 6°ML55'03 31.02009 AU conjunction -5742 Nov 26 i 06:27 23°**♀**35'39 0°58'35 morning rise -5736 Dec 24 i 13:06 7°M28'07 -5742 Nov 26 i 06:27 23°**△**35'39 0°58'29 retrograde -5735 Mar 25 j 16:29 9°M26'34 minimum elong max. Earth dist. -5742 Nov 27 j 01:14 23°**2**37'26 31.06921 AU opposition -5735 Jun 14 j 17:46 8°ML01'43 0°26'34 -5742 Dec 11 j 17:39 24°**£**10'31 min. Earth dist. -5735 Jun 13 j 19:25 8°ML03'15 29.01495 AU morning rise -5741 Mar 12 j 12:24 26°**♀**08'21 6°M39'06 retrograde direct -5735 Aug 31 j 19:45 opposition -5741 Jun 01 j 12:52 24°**△**43'44 0°59'54 evening set -5735 Nov 25 j 21:42 8°M31'20 24°**△**45'03 29.06589 AU min. Earth dist. -5741 May 31 j 17:32 9°M06'12 0°22'16 -5741 Aug 19 j 02:28 23°**£**21'01 conjunction -5735 Dec 11 j 09:22 direct -5741 Nov 13 j 08:10 25°**£**13'24 minimum elong -5735 Dec 11 j 09:22 9°**™**06′12 0°22'04 evening set -5735 Dec 12 j 07:34 9°ML08'18 31.00905 AU max. Earth dist. -5741 Nov 28 j 16:48 25°**△**48'00 0°53'37 9°M41'26 conjunction morning rise -5735 Dec 27 j 00:48 -5741 Nov 28 j 16:49 minimum elong 25°**£**48'00 0°53'29 retrograde -5734 Mar 28 j 05:36 11°M39'55 10°M16'28 29.00368 AU max. Earth dist. -5741 Nov 29 j 13:29 25°**△**49'58 31.06172 AU min. Earth dist. -5734 Jun 16 j 08:56 morning rise -5741 Dec 14 j 04:26 26°**£**22'56 opposition -5734 Jun 17 j 06:32 10°M14'59 0°20'49 retrograde -5740 Mar 14 j 00:35 28°**£**20'52 direct -5734 Sep 03 j 06:05 8°M52'18 min. Earth dist. -5740 Jun 02 j 05:12 26°**♀**57'39 29.05854 AU evening set -5734 Nov 28 j 08:10 10°M44'30 opposition -5740 Jun 03 j 01:41 26°**♀**56'15 0°54'32 -5740 Aug 20 j 14:51 25°**♀**33'35 -5734 Dec 13 j 20:28 11°ML19'24 0°16'53 direct conjunction -5740 Nov 14 j 18:04 27°**£**25'56 -5734 Dec 13 j 20:28 11°ML19'24 evening set minimum elong 0°16'40

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5734 in astronomical counting style is the year 5735 BCE in historical counting style. -5734 Dec 14 i 19:46 11°M21'36 30.99775 AU min. Earth dist. -5728 Jun 29 j 07:51 23°M35'56 28.95098 AU max. Earth dist. opposition 23°M34'11 -0°14'03 -5734 Dec 29 j 12:21 11°M54'40 -5728 Jun 30 j 09:05 morning rise 22°M11'24 -5733 Mar 30 j 18:28 -5728 Sep 16 j 02:34 13°M53'11 direct retrograde -5733 Jun 19 j 18:58 -5728 Dec 11 j 01:10 24°ML03'33 12°M28'10 0°15'03 opposition evening set min. Earth dist. -5733 Jun 18 j 19:58 12°M29'45 28.99241 AU -5733 Sep 05 j 18:25 -5728 Dec 26 j 16:30 direct 11°ML05'26 conjunction 24°M38'41 -0°15'49 -5728 Dec 26 j 16:30 evening set -5733 Nov 30 j 18:50 12°M57'35 minimum elong 24°M38'41 0°16'04 -5728 Dec 27 j 18:42 max. Earth dist. 24°M41'09 30.94777 AU conjunction -5733 Dec 16 j 07:30 13°M32'32 0°11'29 morning rise -5727 Jan 11 j 11:52 25°M14'13 minimum elong -5733 Dec 16 j 07:30 13°M32'32 0°11'15 retrograde -5727 Apr 12 j 23:49 27°M13'04 behind sun begin -5733 Dec 16 j 02:43 13°M32'06 opposition -5727 Jul 02 j 21:26 25° M47'48 -0° 19'52 -5733 Dec 16 j 12:16 -5727 Jul 01 j 20:53 behind sun end 13°M32'58 min. Earth dist. 25°M49'30 28.94537 AU max. Earth dist. -5733 Dec 17 j 06:27 13°M34'42 30.98675 AU direct -5727 Sep 18 j 12:41 24° M $_{2}5'02$ morning rise -5732 Jan 01 j 00:06 14°M07'51 evening set -5727 Dec 13 j 12:32 26°M17'13 -5732 Jan 26 j 07:28 15°M₀ retrograde -5732 Apr 01 j 08:26 16°ML06'24 conjunction -5727 Dec 29 j 04:26 26°ML52'24 -0°21'14 -5732 Jun 09 j 21:37 15°RM minimum elong -5727 Dec 29 j 04:26 26°ML52'24 0°21'31 min. Earth dist. -5732 Jun 20 j 08:50 14°M42'51 28.98190 AU max. Earth dist. -5727 Dec 30 j 06:46 26°M54'53 30.94231 AU opposition -5732 Jun 21 j 07:35 14°M41'17 0°09'15 morning rise -5726 Jan 14 j 00:18 27°M27'58 direct -5732 Sep 07 j 05:32 13°M18'31 retrograde -5726 Apr 15 j 13:39 29°M26'53 -5732 Nov 27 j 08:38 15°M min. Earth dist. -5726 Jul 04 j 08:17 28°M03'24 28.93980 AU evening set -5732 Dec 02 i 05:20 15°ML10'38 opposition -5726 Jul 05 i 09:42 28°M01'38 -0°25'39 direct -5726 Sep 20 i 23:51 26°MJ38'52 conjunction -5732 Dec 17 j 18:42 15°M45'37 0°06'04 evening set -5726 Dec 16 j 00:09 28°M31'07 -5732 Dec 17 j 18:42 15°M45'37 0°05'51 minimum elong -5732 Dec 17 j 12:31 15°M45'04 -5726 Dec 31 j 16:24 29°ML06'20 -0°26'37 behind sun begin conjunction -5732 Dec 18 j 00:53 minimum elong -5726 Dec 31 j 16:23 29°ML06'20 0°26'54 behind sun end 15°M-46'11 15°M47'57 30.97670 AU -5725 Jan 01 j 18:21 29°ML08'47 30.93637 AU max. Earth dist. -5732 Dec 18 j 19:24 max. Earth dist. -5725 Jan 16 j 12:49 -5731 Jan 02 j 11:44 16°M20'58 morning rise 29°M41'57 morning rise -5731 Apr 03 j 21:23 18°M19'34 -5725 Jan 24 j 20:29 retrograde 0°×7 -5731 Jun 23 j 20:00 16°M54'23 0°03'26 -5725 Apr 18 j 02:38 1°**х** 40′56 retrograde opposition -5725 Jul 07 j 22:07 min. Earth dist. -5731 Jun 22 j 20:15 16°M56'01 28.97237 AU 0°**х** 15'41 -0°31'24 opposition -5731 Sep 09 j 18:40 15°M31'36 min. Earth dist. -5725 Jul 06 j 21:52 0° ₹ 17'22 28.93362 AU direct 17°M23'42 -5731 Dec 04 j 16:15 -5725 Jul 17 j 09:23 evening set 30°RM -5725 Sep 23 j 09:27 28°M52'55 direct -5731 Dec 20 j 06:00 17°M58'43 0°00'34 -5725 Nov 26 j 17:11 conjunction 0° ×7 -5731 Dec 20 j 06:00 -5725 Dec 18 j 11:49 minimum elong 17°**M**⋅58'43 0°00'20 evening set 0°**х** 45′13 behind sun begin -5731 Dec 19 j 23:33 17°M58'08 behind sun end -5731 Dec 20 j 12:26 17°M59'18 conjunction -5724 Jan 03 j 04:42 1°**∡**120'28 -0°31'59 max. Earth dist. -5731 Dec 21 j 06:10 18°M-01'00 30.96781 AU minimum elong -5724 Jan 03 j 04:41 1°**∡**120'28 0°32'17 morning rise -5730 Jan 04 j 23:46 18°**™**34'07 max. Earth dist. -5724 Jan 04 j 07:08 1°**х** 22′58 30.92976 AU -5730 Jan 27 j 07:20 19°M20'35 -5724 Jan 19 j 01:29 1°×756'07 desc. node morning rise -5730 Apr 06 j 10:36 20°M32'46 -5724 Apr 19 j 16:38 3°**х** 55′10 retrograde retrograde -5730 Jun 25 j 08:17 19°ML09'11 28.96417 AU -5724 Jul 08 j 09:21 2°**≯**31'38 28.92647 AU min. Earth dist. min. Earth dist. -5730 Jun 26 j 08:18 19° **M** $.07'32 -0^{\circ}02'24$ -5724 Jul 09 j 10:23 2°**∡**129'54 -0°37'07 opposition opposition direct -5730 Sep 12 j 04:44 17°M44'43 direct -5724 Sep 24 i 21:34 1°**尽**07'07 evening set -5730 Dec 07 i 03:05 19°MJ36'50 evening set -5724 Dec 19 j 23:44 2°×759'27 -5723 Jan 04 i 16:57 conjunction -5730 Dec 22 j 17:26 20°M11'53 -0°04'58 conjunction 3°**х** 34'44 -0°37'18 -5730 Dec 22 i 17:27 20°M11'53 0°05'12 minimum elong -5723 Jan 04 i 16:57 3°**x**⁷34'44 0°37'35 minimum elong -5723 Jan 05 j 18:13 -5730 Dec 22 j 11:10 20°MJ11'19 max. Earth dist. 3°**∡**37'07 30.92201 AU behind sun begin -5730 Dec 22 j 23:43 20°M12'27 -5723 Jan 20 j 14:25 4°**х** 10′26 behind sun end morning rise max. Earth dist. -5730 Dec 23 j 19:04 20°M14'18 30.96013 AU -5723 Apr 22 j 07:18 6°**х** 09'30 retrograde -5723 Jul 11 j 22:49 4°**∡**¹44'12 -0°42'46 morning rise -5729 Jan 07 j 11:38 20°M47'20 opposition -5729 Apr 08 j 21:53 4°**∡**¹45'52 28.91821 AU retrograde 22°M-46'02 min. Earth dist. -5723 Jul 10 j 22:51 opposition -5729 Jun 28 j 20:41 21°M20'46 -0°08'14 direct -5723 Sep 27 j 08:46 3°**х** 21′22 min. Earth dist. -5729 Jun 27 j 20:21 21°M22'27 28.95704 AU evening set -5723 Dec 22 j 11:39 5°**х** 13'44 -5729 Sep 14 j 16:31 19°M57'59 direct -5729 Dec 09 j 13:59 21°M50'06 -5722 Jan 07 j 05:32 5°**х** 49'04 -0°42'33 evening set conjunction -5722 Jan 07 j 05:32 minimum elong 5°**√**49'04 0°42'52 -5729 Dec 25 j 04:48 -5722 Jan 08 j 07:39 5°**≯**51'32 30.91320 AU conjunction 22°M25'12 -0°10'23 max. Earth dist. minimum elong -5729 Dec 25 j 04:47 22°M25'12 0°10'39 morning rise -5722 Jan 23 j 03:19 6°**х** 24'47 behind sun begin -5729 Dec 24 j 23:47 22°M24'44 retrograde -5722 Apr 24 j 20:48 8°×23'52 behind sun end -5729 Dec 25 j 09:48 22°M25'39 min. Earth dist. -5722 Jul 13 j 10:39 7°**∡**00'12 28.90895 AU max. Earth dist. -5729 Dec 26 j 06:12 22°M27'35 30.95362 AU opposition -5722 Jul 14 j 10:50 6°**х** 58'31 -0°48'21 -5728 Jan 09 j 23:38 -5722 Sep 29 j 22:10 5°**⋌**35'38 morning rise 23°ML00'41 direct -5728 Apr 10 j 12:13 -5722 Dec 24 j 23:43 7°**х** 28′02 retrograde 24°M59'27 evening set

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5721 in astronomical counting style is the year 5722 BCE in historical counting style. 8°**х** 03′23 -0°47′45 -5721 Jan 09 i 17:55 direct -5715 Oct 15 i 03:14 21°×15'32 conjunction -5721 Jan 09 j 17:55 8°×103'23 0°48'03 evening set -5714 Jan 09 j 13:57 23°×708'19 minimum elong -5721 Jan 10 j 18:50 8° ₹ 05'44 30.90372 AU max. Earth dist. -5721 Jan 25 j 16:19 8°×39'09 -5714 Jan 25 j 11:08 23°**∡**¹43'52 -1°21'40 conjunction morning rise -5721 Apr 27 j 10:30 -5714 Jan 25 j 11:08 10°**∡**38'14 23°**х** 43′52 1°22′01 retrograde minimum elong 23°**∡**746'13 30.85750 AU -5721 Jul 16 j 23:00 9°**х** 12'49 -0°53'52 -5714 Jan 26 j 12:08 opposition max. Earth dist. 9°**҂**14'29 28.89946 AU -5714 Feb 10 j 12:21 24°**√**19'48 min. Earth dist. -5721 Jul 15 j 23:11 morning rise 7°**х** 49′52 -5714 May 13 j 04:41 26° **₹**18'55 direct -5721 Oct 02 j 08:47 retrograde 9°×742'17 -5714 Jul 31 j 10:41 24° ₹ 55'03 28.85691 AU evening set -5721 Dec 27 j 11:35 min. Earth dist. opposition -5714 Aug 01 j 09:42 24°**x** 53'26 -1°29'46 conjunction -5720 Jan 12 j 06:21 10°**х** 17'40 -0°52'52 direct -5714 Oct 17 j 13:45 23°×30'12 -5720 Jan 12 j 06:20 10°**∡**17'40 0°53'11 -5713 Jan 12 j 02:48 25°**х**⁴23'05 minimum elong evening set -5720 Jan 13 j 08:17 10°**∡**20'07 30.89416 AU max. Earth dist. morning rise -5720 Jan 28 j 05:04 10°**х** 53′27 conjunction -5713 Jan 28 j 00:32 25°**∡**158'40 -1°26'05 retrograde -5720 Apr 28 j 22:45 12°**х** 52′32 minimum elong -5713 Jan 28 j 00:31 25°**₹**58'40 1°26'25 min. Earth dist. -5720 Jul 17 j 11:22 11°**尽**28'44 28.89014 AU max. Earth dist. -5713 Jan 29 j 02:17 26°**✗**01'05 30.85442 AU morning rise opposition -5720 Jul 18 j 11:03 11°**₹**27'04 -0°59'18 -5713 Feb 13 j 01:53 26°**х** 34'36 direct -5720 Oct 03 j 21:34 10°**х** 04′04 retrograde -5713 May 15 j 18:06 28°**х** 33′43 evening set -5720 Dec 28 j 23:46 11°**∡** 56'30 opposition -5713 Aug 03 j 21:21 27°**∡**108'16 -1°34'26 min. Earth dist. -5713 Aug 02 j 22:17 27°**₹**109'54 28.85377 AU conjunction -5719 Jan 13 j 18:55 12°**₹**31'55 -0°57'54 direct -5713 Oct 20 j 02:25 25°**х** 45′00 minimum elong -5719 Jan 13 i 18:55 12°**∡**31'55 0°58'13 evening set -5712 Jan 14 i 15:50 27°**₹**37'59 max. Earth dist. -5719 Jan 14 j 20:08 12°**✗**34'18 30.88523 AU morning rise -5719 Jan 29 j 18:10 13°**х** 07'44 conjunction -5712 Jan 30 i 13:47 28° ₹13'35 -1°30'22 retrograde -5719 May 01 j 13:26 15°**∡**06'48 -5712 Jan 30 i 13:47 28° **₹**13'35 1°30'43 minimum elong -5719 Jul 20 j 22:52 13°**∡**′41′18 -1°04′39 max. Earth dist. -5712 Jan 31 j 13:57 28° ₹15'51 30.85107 AU opposition -5719 Jul 19 j 22:41 13°**₹**'42'59 28.88175 AU -5712 Feb 15 j 15:39 28°×749'33 min Earth dist morning rise -5719 Oct 06 j 08:30 12°**х** 18′13 -5712 Mar 22 j 11:54 0°궁 direct -5719 Dec 31 j 12:01 14°**х** 10′43 -5712 May 17 j 08:45 0°る48'40 evening set retrograde 30°R.**✓** -5712 Jul 13 j 19:52 -5718 Jan 16 j 07:38 14°**∡**¹46'10 -1°02'51 min. Earth dist. -5712 Aug 04 j 10:55 29°**✗**24'47 28.85023 AU conjunction -5718 Jan 16 j 07:37 opposition -5712 Aug 05 j 09:07 minimum elong 14°**₹**46'10 1°03'11 29° ₹23'14 -1°38'56 -5718 Jan 17 j 09:22 -5712 Oct 21 j 13:01 max. Earth dist. 14°**≯**48'35 30.87720 AU direct 27°**х** 59'55 -5718 Feb 01 j 07:15 15°**∡** 22′00 -5711 Jan 16 j 05:04 29°**х** 52'59 morning rise evening set -5718 May 04 j 00:16 17°**₹**21'04 -5711 Jan 19 j 09:27 0°ರ retrograde -5718 Jul 22 j 11:20 15°**₹**'57'11 28.87440 AU min. Earth dist. -5711 Feb 01 j 03:32 -5718 Jul 23 j 10:47 15°**∡** 55'33 -1°09'54 0°**ප්**28'37 -1°34'31 opposition conjunction direct -5718 Oct 08 j 19:17 14°**∡** 32′25 minimum elong -5711 Feb 01 j 03:32 0°る28'37 1°34'51 evening set -5717 Jan 03 j 00:13 16°**х** 24'57 max. Earth dist. -5711 Feb 02 j 04:00 0°る30'54 30.84698 AU morning rise -5711 Feb 17 j 05:34 1°る04'36 conjunction -5717 Jan 18 j 20:16 17°**∡**100'26 -1°07'43 retrograde -5711 May 19 j 22:15 3°**る**03'40 -5717 Jan 18 j 20:16 17°**∡**¹00′26 1°08′02 -5711 Aug 07 j 20:42 1°る38'14 -1°43'18 minimum elong opposition max. Earth dist. -5717 Jan 19 j 22:05 17°**✗**02'52 30.87051 AU min. Earth dist. -5711 Aug 06 j 23:19 1°る39'44 28.84571 AU -5717 Feb 03 j 20:15 17°**х** 36′18 -5711 Oct 24 j 02:21 0°る14'52 morning rise direct -5717 May 06 j 13:10 19°**х** 35′22 -5710 Jan 18 j 18:28 2°る08'00 retrograde evening set -5717 Jul 25 i 22:31 18°**₹**09'50 -1°15'02 opposition -5717 Jul 24 i 22:06 18°**✗**11'33 28.86841 AU -5710 Feb 03 i 17:14 2°**ප්**43'39 -1°38'32 min. Earth dist. conjunction -5710 Feb 03 i 17:14 direct -5717 Oct 11 i 06:23 16°**∡**¹46'40 minimum elong 2°る43'39 1°38'53 2°る45'48 30.84206 AU evening set -5716 Jan 05 j 12:39 18°**х** 39′17 max. Earth dist. -5710 Feb 04 i 16:04 morning rise -5710 Feb 19 i 19:40 3°₹19'39 -5716 Jan 21 j 09:03 19°**₹**14'47 -1°12'28 retrograde -5710 May 22 i 12:58 5°₹18'40 conjunction -5716 Jan 21 i 09:02 19°**∡**14'47 1°12'49 min. Earth dist. -5710 Aug 09 j 11:05 3°る54'43 28.84046 AU minimum elong max. Earth dist. -5716 Jan 22 j 10:37 19°**∡**17'11 30.86508 AU opposition -5710 Aug 10 j 08:19 3°₹53'13 -1°47'30 19°**∡** 50'40 -5710 Oct 26 j 14:19 2°る29'46 morning rise -5716 Feb 06 j 09:29 direct retrograde -5716 May 08 j 01:37 21°×749'46 evening set -5709 Jan 21 j 07:43 4°る22'58 min. Earth dist. -5716 Jul 26 j 11:00 20° ₹25'52 28.86372 AU -5716 Jul 27 j 10:22 20°**∡**124'14 -1°20'04 conjunction -5709 Feb 06 j 06:51 4°る58'38 -1°42'23 opposition -5716 Oct 12 j 15:14 19°**∡**'01'02 -5709 Feb 06 j 06:51 4°る58'38 1°42'44 direct minimum elong -5715 Jan 07 j 01:06 20°**х** 53′43 -5709 Feb 07 j 05:38 5°る00'46 30.83637 AU evening set max. Earth dist. -5709 Feb 22 j 09:30 5°る34'39 morning rise -5715 Jan 22 j 22:04 21°**х** 29'15 -1°17'08 -5709 May 25 j 00:26 7°る33'37 conjunction retrograde minimum elong -5715 Jan 22 j 22:04 21° 🗷 29'15 1°17'28 opposition -5709 Aug 12 j 19:53 6°る08'08 -1°51'33 max. Earth dist. -5715 Jan 24 j 00:12 21°**✗**31'42 30.86095 AU min. Earth dist. -5709 Aug 11 j 23:58 6°る09'32 28.83468 AU morning rise -5715 Feb 07 j 22:48 22°\$\square\$05'09 direct -5709 Oct 29 j 01:57 4°る44'36 retrograde -5715 May 10 j 14:58 24°**х** 04'16 evening set -5708 Jan 23 j 21:04 6°**る**37'51 -5715 Jul 29 j 22:02 22°**∡**¹38'45 -1°24'59 opposition min. Earth dist. -5715 Jul 28 j 21:51 22°**尽**40′27 28.86001 AU -5708 Feb 08 j 20:37 7°る13'32 -1°46'05 conjunction

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 16

•	nical year style is used: Th		-	* **			page 10
minimum elong	-5708 Feb 08 j 20:36	7° る 13'32		evening set	-5701 Feb 08 j 20:24		
max. Earth dist.	-5708 Feb 09 j 18:43	7° る 15'37	30.83065 AU	C	,		
morning rise	-5708 Feb 24 j 23:33	7° る 49'33		conjunction	-5701 Feb 24 j 22:07	22° る 57'35	-2°07'11
retrograde	-5708 May 26 j 14:02	9° ප 48'27		minimum elong	-5701 Feb 24 j 22:07	22° る 57'35	2°07'31
min. Earth dist.	-5708 Aug 13 j 10:54	8° る 24'23	28.82914 AU	max. Earth dist.	-5701 Feb 25 j 16:43	22° る 59'19	30.81934 AU
opposition	-5708 Aug 14 j 07:10	8° る 22'57		morning rise	-5701 Mar 13 j 02:39	23° る 33'39	
direct	-5708 Oct 30 j 13:46	6° る 59'18		retrograde	-5701 Jun 12 j 10:01	25° පි 32'11	
evening set	-5707 Jan 25 j 10:34	8° ろ 52'38		opposition	-5701 Aug 30 j 13:21	24° る 06'56	-2°17'17
-	-			min. Earth dist.	-5701 Aug 29 j 20:22	24°る08'09	28.82215 AU
conjunction	-5707 Feb 10 j 10:23	9° පි 28'20	-1°49'38	direct	-5701 Nov 15 j 21:45	22°る43'00	
minimum elong	-5707 Feb 10 j 10:23	9° පි 28'20	1°49'58	evening set	-5700 Feb 11 j 10:29	24° る 37'07	
max. Earth dist.	-5707 Feb 11 j 07:51	9° ප 30'21	30.82524 AU				
morning rise	-5707 Feb 26 j 13:39	10° る 04'22		conjunction	-5700 Feb 27 j 12:33	25° る 12'57	-2°09'27
retrograde	-5707 May 29 j 02:07	12° る 03'12		minimum elong	-5700 Feb 27 j 12:33	25° る 12'57	2°09'47
opposition	-5707 Aug 16 j 18:34	10° る 37'41	-1°59'07	max. Earth dist.	-5700 Feb 28 j 06:56	25° る 14'40	30.82159 AU
min. Earth dist.	-5707 Aug 15 j 23:45	10° そ 39'01	28.82423 AU	morning rise	-5700 Mar 14 j 17:09	25° る 49'01	
direct	-5707 Nov 01 j 23:27	9° る 13'57		retrograde	-5700 Jun 13 j 22:37	27° る 47'29	
evening set	-5706 Jan 28 j 00:01	11° る 07'22		min. Earth dist.	-5700 Aug 31 j 09:06	26° る 23'25	28.82435 AU
	v			opposition	-5700 Sep 01 j 00:25	26° る 22'20	-2°19'36
conjunction	-5706 Feb 13 j 00:17	11° る 43'05	-1°53'00	direct	-5700 Nov 17 j 09:19	24° る 58'22	
minimum elong	-5706 Feb 13 j 00:16	11° る 43'05	1°53'21	evening set	-5699 Feb 13 j 00:45	26° る 52'36	
max. Earth dist.	-5706 Feb 13 j 21:51	11° る 45'06	30.82081 AU	-	·		
morning rise	-5706 Mar 01 i 03:39	12° る 19'07		conjunction	-5699 Mar 01 j 03:07	27° る 28'27	-2°11'32
retrograde	-5706 May 31 j 14:23	14° る 17'52		minimum elong	-5699 Mar 01 j 03:07	27° る 28'27	
min. Earth dist.	-5706 Aug 18 j 10:12	12° る 53'44	28.82043 AU	max. Earth dist.	-5699 Mar 01 j 20:06	27° る 30'02	30.82358 AU
opposition	-5706 Aug 19 j 05:39	12° ろ 52'22		morning rise	-5699 Mar 17 j 07:55	28° ප 04'31	
direct	-5706 Nov 04 j 11:47	11° る 28'34			-5699 Jun 03 j 05:47	0° ≈	
evening set	-5705 Jan 30 j 13:36	13° る 22'04		retrograde	-5699 Jun 16 j 13:37	0°≈02'55	
e venning see	2702 Van 20 j 13.20	15 022 01		renograde	-5699 Jun 29 j 18:18	30°Rる	
conjunction	-5705 Feb 15 j 14:02	13° る 57'48	-1°56'12	opposition	-5699 Sep 03 j 11:28	28° る 37'49	-2°21'43
minimum elong	-5705 Feb 15 j 14:01	13° る 57'48		min. Earth dist.	-5699 Sep 02 j 20:15		28.82597 AU
max. Earth dist.	-5705 Feb 16 j 10:24		30.81764 AU	direct	-5699 Nov 19 j 21:42	27° ට 13'48	20.02377 110
morning rise	-5705 Mar 03 j 17:46	14° る 33'50	30.01701710	evening set	-5698 Feb 15 j 15:07	29° ろ 08'09	
retrograde	-5705 Jun 03 j 02:55	16° る 32'33		evening sec	20,0100 10,10.07	2, 0000,	
opposition	-5705 Aug 21 j 16:56	15° る 07'03	-2°05'57	conjunction	-5698 Mar 03 j 17:41	29° る 44'00	-2°13'24
min. Earth dist.	-5705 Aug 20 j 22:32		28.81818 AU	minimum elong	-5698 Mar 03 j 17:41	29°る44'00	
direct	-5705 Nov 06 j 21:59	13°る43'12	20.01010710	max. Earth dist.	-5698 Mar 04 j 09:30		30.82464 AU
evening set	-5704 Feb 02 j 02:59	15° ප 36'48		max. Earth dist.	-5698 Mar 10 j 20:56	0°≈	30.02404710
evening set	-3704 FC0 02 J 02.39	15 05046		morning rise	-5698 Mar 19 j 22:37	0°≈20'05	
conjunction	-5704 Feb 18 j 03:55	16° ප 12'33	-1°50'13	retrograde	-5698 Jun 19 j 01:51	0 ≈20 03 2°≈18'23	
minimum elong	-5704 Feb 18 j 03:55	16° ප 12'33		opposition	-5698 Sep 05 j 22:35	0°≈53'20	-2°23'36
max. Earth dist.	-5704 Feb 19 j 01:03		30.81610 AU	min. Earth dist.	-5698 Sep 05 j 09:22		28.82670 AU
morning rise	-5704 Mar 05 j 07:44	16°පි48'36	30.81010 AC	mm. Earm dist.	-5698 Oct 09 j 19:14	0 ≈34 10 30°Rる	28.82070 AU
retrograde	-5704 Jun 04 j 15:37	18° る 47'15		direct	-5698 Nov 22 j 07:58	29° පි 29'15	
min. Earth dist.	-5704 Aug 22 j 09:28		28.81737 AU	direct	-5697 Jan 04 j 02:58	0°≈	
opposition	-5704 Aug 23 j 04:03	17° ට 23'08		evening set	-5697 Feb 18 j 05:21	0 ∞ 1°≈23'40	
direct	-5704 Nov 08 j 10:16	17 3 21 48	-2 0703	evening set	-507/100 10 10 05.21	1 ~23 40	
evening set	-5703 Feb 03 j 16:47	17° ට 51'38		conjunction	-5697 Mar 06 j 08:19	1° ≈ 59'32	-2°15'04
o ronning set	5,05100 05 j 10.4/	1, 03136		minimum elong	-5697 Mar 06 j 08:19	1°≈59'32	
conjunction	-5703 Feb 19 j 17:54	18° る 27'24	-2°02'04	max. Earth dist.	-5697 Mar 06 j 23:25		30.82507 AU
minimum elong	-5703 Feb 19 j 17:54	18° る 27'24		morning rise	-5697 Mar 22 j 13:20	2°≈35'37	50.02507 AU
max. Earth dist.	-5703 Feb 20 j 13:30		30.81604 AU	retrograde	-5697 Jun 21 j 13:50	4°≈33'48	
morning rise	-5703 Mar 07 j 22:06	18 3 2717	30.0100 4 AC	opposition	-5697 Sep 08 j 09:29	3°≈08'46	2°25'16
•	-5703 Jun 07 j 05:49	19 3 0327 21° 3 02'04		min. Earth dist.	-5697 Sep 07 j 20:13		28.82679 AU
retrograde opposition	-5703 Aug 25 j 15:08	21 ප්රවේශ් 19°ප්36'41	2012/01	direct	-5697 Nov 24 j 20:57	1°≈44'37	28.82079 AU
min. Earth dist.			28.81810 AU			3°≈39'06	
direct	-5703 Aug 24 j 21:16 -5703 Nov 10 j 20:32	19° る 3/3/	20.01010 AU	evening set	-5696 Feb 20 j 19:41	J ~~100	
		18 31243 20° る 06'37		conjunction	5606 Mar 07: 22:40	10001 1150	2016/22
evening set	-5702 Feb 06 j 06:34	20 0003/		minimum elong	-5696 Mar 07 j 22:48	4°≈14'59 4°≈14'59	
aaniumatian	5700 Eak 22:00.07	200=242124	2004142	Č	-5696 Mar 07 j 22:48		
conjunction	-5702 Feb 22 j 08:07	20°る42'24		max. Earth dist.	-5696 Mar 08 j 12:07		30.82493 AU
minimum elong	-5702 Feb 22 j 08:06	20°₹42'24		morning rise	-5696 Mar 24 j 04:06	4°≈51'03	
max. Earth dist.	-5702 Feb 23 j 04:16		30.81725 AU	retrograde	-5696 Jun 23 j 01:42	6°≈49'06	2026142
morning rise	-5702 Mar 10 j 12:20	21°る18'28		opposition	-5696 Sep 09 j 20:29	5°≈24'05	
retrograde	-5702 Jun 09 j 19:25	23° る 17'02	20.01070 411	min. Earth dist.	-5696 Sep 09 j 08:53	5°≈24'55 3°≈59'50	28.82665 AU
min. Earth dist.							
ammagiti	-5702 Aug 27 j 09:04		28.81979 AU	direct	-5696 Nov 26 j 07:17		
opposition direct	-5702 Aug 27 j 09:04 -5702 Aug 28 j 02:15 -5702 Nov 13 j 09:48	21°552'56 21°551'43 20°527'48		evening set	-5695 Feb 22 j 09:59	5°≈54'23	

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5695 in astronomical counting style is the year 5696 BCE in historical counting style. -5695 Mar 10 j 13:33 6°≈30'17 -2°17'47 retrograde -5689 Jul 09 i 18:14 22°≈33'06 conjunction -5695 Mar 10 j 13:32 6°≈30'17 2°18'04 -5689 Sep 25 j 23:17 21°≈08'26 -2°30'31 minimum elong opposition 6°≈31'31 30.82481 AU -5695 Mar 11 j 02:54 min. Earth dist. -5689 Sep 25 j 16:49 21°≈08'54 28.85022 AU max. Earth dist. -5695 Mar 26 j 18:49 -5689 Dec 12 j 19:30 19°**≈**43'48 7°≈06'20 morning rise direct 9°**≈**04'15 -5695 Jun 25 j 13:31 -5688 Mar 10 j 14:29 retrograde evening set 21°≈39'01 7°≈39'14 -2°27'57 opposition -5695 Sep 12 j 07:10 min. Earth dist. -5695 Sep 11 j 19:52 7°≈40'03 28.82664 AU conjunction -5688 Mar 26 j 19:41 22°≈14'58 -2°20'36 -5688 Mar 26 j 19:42 22°**≈**14'58 2°20'50 direct -5695 Nov 28 j 19:30 6°≈14'53 minimum elong -5688 Mar 27 j 03:09 evening set -5694 Feb 25 j 00:26 8°≈09'31 max. Earth dist. 22°≈15'40 30.85193 AU morning rise -5688 Apr 12 j 01:38 22°≈51'00 conjunction -5694 Mar 13 j 04:03 8°≈45'24 -2°18'50 retrograde -5688 Jul 11 j 07:10 24°≈48'02 -5694 Mar 13 j 04:04 -5688 Sep 27 j 09:52 minimum elong 8°≈45'24 2°19'07 opposition 23°≈23'29 -2°30'08 -5694 Mar 13 j 15:32 -5688 Sep 27 j 03:29 max. Earth dist. 8°≈46'29 30.82513 AU min. Earth dist. 23°≈23'56 28.85712 AU morning rise -5694 Mar 29 j 09:36 9°≈21'28 direct -5688 Dec 14 j 08:20 21°≈58'51 retrograde -5694 Jun 28 j 02:01 11°≈19'14 evening set -5687 Mar 13 j 05:15 23°≈54'10 opposition -5694 Sep 14 j 17:59 9°≈54'15 -2°28'57 min. Earth dist. -5694 Sep 14 j 07:38 9°≈54'59 28.82748 AU conjunction -5687 Mar 29 j 10:31 24°≈30'08 -2°20'08 direct -5694 Dec 01 j 06:32 8°≈29'48 minimum elong -5687 Mar 29 j 10:31 24°≈30'08 2°20'21 evening set -5693 Feb 27 j 14:30 10°≈24'30 max. Earth dist. -5687 Mar 29 j 16:03 24°**≈**30'39 30.85860 AU morning rise -5687 Apr 14 j 16:35 25°≈06'10 conjunction -5693 Mar 15 j 18:32 11°≈00'24 -2°19'40 retrograde -5687 Jul 13 j 19:33 27°≈03'06 minimum elong -5693 Mar 15 j 18:32 11°≈00'24 2°19'56 opposition -5687 Sep 29 i 20:32 25°≈38'38 -2°29'31 max. Earth dist. -5693 Mar 16 i 06:28 11°≈01'31 30.82641 AU min. Earth dist. -5687 Sep 29 i 16:03 25°≈38'57 28.86355 AU morning rise -5693 Apr 01 i 00:01 11°≈36'27 direct -5687 Dec 16 i 18:24 24°≈13'59 retrograde -5693 Jun 30 j 13:42 13°≈34'05 evening set -5686 Mar 15 j 19:52 26°≈09'24 -5693 Sep 17 j 04:44 12°≈09'07 -2°29'44 opposition -5693 Sep 16 j 19:05 12°≈09'48 28.82936 AU -5686 Apr 01 j 01:29 26°≈45'23 -2°19'27 min. Earth dist. conjunction -5693 Dec 03 j 19:56 10°≈44'36 -5686 Apr 01 j 01:29 26°≈45'23 2°19'40 direct minimum elong -5692 Mar 01 j 04:53 12°≈39'23 -5686 Apr 01 j 06:33 evening set max. Earth dist. 26°≈45'51 30.86462 AU -5686 Apr 17 j 07:26 morning rise 27°≈21'24 -5692 Mar 17 j 09:02 -5686 Jul 16 j 07:24 conjunction 13°≈15'17 -2°20'17 retrograde 29°≈18'12 -5692 Mar 17 j 09:02 -5686 Oct 02 j 07:14 minimum elong 13°≈15'17 2°20'33 opposition 27°≈53'50 -2°28'40 -5692 Mar 17 j 19:13 -5686 Oct 02 j 03:20 max. Earth dist. 13°≈16'14 30.82904 AU min. Earth dist. 27°≈54'06 28.86899 AU -5692 Apr 02 j 14:47 -5686 Dec 19 j 06:27 26°≈29'08 morning rise 13°≈51'20 direct -5692 May 07 j 16:10 -5685 Mar 18 j 10:27 15°≈ evening set 28°**≈**24'38 -5692 Jul 02 j 03:24 retrograde 15°**≈**48'50 -5692 Aug 27 j 19:49 -5685 Apr 03 j 16:05 15°R≪ conjunction 29°≈00'37 -2°18'34 opposition -5692 Sep 18 j 15:18 14°≈23'54 -2°30'16 minimum elong -5685 Apr 03 j 16:06 29°≈00'37 2°18'45 min. Earth dist. -5692 Sep 18 j 05:48 14°≈24'35 28.83274 AU max. Earth dist. -5685 Apr 03 j 18:48 29°≈00'52 30.86962 AU direct -5692 Dec 05 j 07:57 12°≈59'19 morning rise -5685 Apr 19 j 22:15 29°≈36'39 -5691 Mar 03 j 19:15 14°≈54'13 -5685 Apr 30 j 21:55 0°**)**€ evening set -5691 Mar 06 j 10:45 -5685 Jul 18 j 19:10 1°**)** 33'18 15°≈ retrograde -5685 Oct 04 j 17:55 0°\(\mathbf{t}\) 08'59 -2°27'37 opposition -5691 Mar 19 j 23:45 15°≈30'07 -2°20'41 min. Earth dist. -5685 Oct 04 j 15:24 0°**升**09'10 28.87356 AU conjunction -5691 Mar 19 j 23:45 15°≈30'07 2°20'56 -5685 Oct 10 j 00:08 minimum elong 30°R≈ -5691 Mar 20 i 09:56 max. Earth dist. 15°≈31'04 30.83304 AU direct -5685 Dec 21 i 17:39 28°≈44'13 -5691 Apr 05 i 05:27 morning rise 16°≈06'10 -5684 Feb 29 i 20:07 0°) -5691 Jul 04 i 15:38 retrograde 18°≈03'32 evening set -5684 Mar 20 j 01:00 0° **\(**39'48 opposition -5691 Sep 21 i 02:04 16°≈38'41 -2°30'35 min. Earth dist. -5691 Sep 20 i 17:54 16°≈39'16 28.83744 AU conjunction -5684 Apr 05 i 07:01 1°\ 15'47 -2°17'28 direct -5691 Dec 07 j 19:59 15°≈14'05 minimum elong -5684 Apr 05 i 07:02 1°**H** 15'47 2°17'40 -5690 Mar 06 j 09:36 17°≈09'03 max. Earth dist. -5684 Apr 05 i 09:35 1°¥16'01 30.87376 AU evening set -5684 Apr 21 j 13:03 1°**H**51'48 morning rise -5684 Jul 20 j 06:00 conjunction -5690 Mar 22 j 14:16 17°≈44'59 -2°20'52 retrograde 3°**)**(48'17 minimum elong -5690 Mar 22 j 14:17 17°≈44′59 2°21′08 opposition -5684 Oct 06 j 04:25 2°\ 24'01 -2°26'20 max. Earth dist. -5690 Mar 22 j 23:14 17°≈45'49 30.83849 AU min. Earth dist. -5684 Oct 06 j 03:11 2°**升**24'07 28.87726 AU -5690 Apr 07 j 20:07 0°**¥**59'11 18°≈21'01 direct -5684 Dec 23 j 07:00 morning rise -5690 Jul 07 j 06:13 -5683 Mar 22 j 15:42 2°**)** 54'50 retrograde 20°≈18'16 evening set -5690 Sep 23 j 12:37 opposition 18°≈53'30 -2°30'40 -5690 Sep 23 j 04:16 18°≈54'06 28.84342 AU -5683 Apr 07 j 21:45 3°\(\frac{1}{3}\)0'49 -2°16'10 min. Earth dist. conjunction -5683 Apr 07 j 21:45 direct -5690 Dec 10 j 08:49 17°≈28'53 minimum elong 3°**¥**30'49 2°16'21 evening set -5689 Mar 09 j 00:03 19°≈23'58 max. Earth dist. -5683 Apr 07 j 21:58 3°**₭**30'50 30.87738 AU morning rise -5683 Apr 24 j 03:58 4°**)** 06'49 conjunction -5689 Mar 25 j 04:56 19°≈59'55 -2°20'51 retrograde -5683 Jul 22 j 18:59 6°****03'09 opposition minimum elong -5689 Mar 25 j 04:56 19°**≈**59'55 2°21'05 -5683 Oct 08 j 14:53 4°****38'55 -2°24'49 max. Earth dist. -5689 Mar 25 j 13:12 20°**≈**00'41 30.84490 AU min. Earth dist. -5683 Oct 08 j 14:09 4°**)** 38'58 28.88078 AU -5689 Apr 10 j 10:49 20°≈35'57 -5683 Dec 25 j 19:01 3°**)** 14′00 morning rise direct

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5682 in astronomical counting style is the year 5683 BCE in historical counting style. opposition -5682 Mar 25 j 06:03 5°**)**(09'42 -5676 Oct 23 i 15:11 20°\(\mathbf{1}\)19'19 -2°08'22 evening set min. Earth dist. -5676 Oct 23 j 20:03 20°**升**18'58 28.92927 AU -5682 Apr 10 j 12:21 5°\ 45'41 -2°14'40 -5675 Jan 10 j 08:31 18°**¥** 54'08 direct conjunction 5°**)**45'41 2°14'50 -5675 Apr 10 j 10:05 -5682 Apr 10 j 12:22 20°\ 50'14 minimum elong evening set -5682 Apr 10 j 12:26 5°**升**45'41 30.88087 AU max. Earth dist. -5682 Apr 26 j 18:23 -5675 Apr 26 j 17:13 morning rise 6°**)**€21'40 conjunction 21°\(\dagger)26'15 -1°58'36 -5682 Jul 25 j 06:10 -5675 Apr 26 j 17:14 retrograde 8° ¥ 17'49 minimum elong 21°**H**26'15 1°58'41 -5675 Apr 26 j 11:23 opposition -5682 Oct 11 j 01:22 6°**¥**53'37 -2°23'06 max. Earth dist. 21°**¥**25'43 30.93301 AU min. Earth dist. -5682 Oct 11 j 02:13 6°**¥**53'33 28.88442 AU morning rise -5675 May 12 j 22:55 22°**)** 02'10 direct -5682 Dec 28 j 07:47 5°**¥**28'38 retrograde -5675 Aug 09 j 15:58 23°**)**57'12 evening set -5681 Mar 27 j 20:27 7°**)** €24'22 opposition -5675 Oct 26 j 01:37 22°\dagger33'32 -2°05'12 -5675 Oct 26 j 07:43 min. Earth dist. 22°**₭**33'06 28.93919 AU -5681 Apr 13 j 02:50 -5674 Jan 12 j 20:37 conjunction 8°\mathcal{H}00'21 -2°12'57 direct 21°**)** 08'21 minimum elong -5681 Apr 13 j 02:51 8°¥00'21 2°13'07 evening set -5674 Apr 13 j 00:22 23°**)** 04'31 max. Earth dist. -5681 Apr 13 j 01:22 8°**₭**00'13 30.88496 AU morning rise -5681 Apr 29 j 09:00 8°¥36'20 conjunction -5674 Apr 29 j 07:22 23°\(\)40'31 -1°55'33 retrograde -5681 Jul 27 j 19:49 10°**¥**32'19 minimum elong -5674 Apr 29 j 07:22 23°\dagger40'31 1°55'37 opposition -5681 Oct 13 j 11:36 9°\;\;08'08 -2°21'10 max. Earth dist. -5674 Apr 28 j 23:15 23°**)** 39'46 30.94276 AU min. Earth dist. -5681 Oct 13 j 12:20 9°**升**08'05 28.88889 AU morning rise -5674 May 15 j 13:06 24°¥16'26 direct -5681 Dec 30 j 21:43 7°\ 43'04 retrograde -5674 Aug 12 j 04:27 26° **X** 11'19 evening set -5680 Mar 29 j 10:47 9°**)** 38′52 opposition -5674 Oct 28 j 12:00 24°\(\)47'44 -2°01'51 min. Earth dist. -5674 Oct 28 i 18:35 24°**)**(47'16 28.94859 AU conjunction -5680 Apr 14 j 17:21 10°\(\dagger) 14'52 -2°11'03 -5673 Jan 15 i 07:51 23°\ 22'31 direct minimum elong -5680 Apr 14 j 17:22 10°**)** 14′52 2°11′11 evening set -5673 Apr 15 j 14:35 25° **)** 18'45 max. Earth dist. -5680 Apr 14 j 15:21 10°**)** 14'41 30.88990 AU -5680 Apr 30 j 23:26 10°¥50'50 -5673 May 01 j 21:45 25°\ 54'45 -1°52'20 morning rise conjunction retrograde -5680 Jul 29 j 06:47 12°\ 46'38 -5673 May 01 j 21:46 25°\ 54'45 1°52'23 minimum elong -5680 Oct 14 j 22:02 11°\(\frac{1}{22}\)'30 -2°19'01 -5673 May 01 j 13:19 25°¥53'58 30.95169 AU max. Earth dist. opposition -5680 Oct 15 j 00:28 11°**)** 22'20 28.89443 AU morning rise -5673 May 18 j 03:13 min. Earth dist. 26°**)** € 30'38 -5679 Jan 01 j 09:40 9°**)** 57'23 -5673 Aug 14 j 14:35 retrograde 28°\ 25'22 direct -5679 Apr 01 j 01:05 -5673 Oct 30 j 22:23 11°**)** 53'14 27°**₭**01'51 -1°58'19 evening set opposition -5673 Oct 31 j 06:51 min. Earth dist. 27°**₭**01'15 28.95700 AU -5679 Apr 17 j 07:48 12°**¥**29'14 -2°08'56 -5672 Jan 17 j 20:37 25°**∺**36'36 conjunction direct -5679 Apr 17 j 07:48 12°**)** 29'14 2°09'04 -5672 Apr 17 j 04:53 27°**)** € 32'52 minimum elong evening set -5679 Apr 17 j 05:05 12°**∺**28'58 30.89619 AU max. Earth dist. 13°**₩**05'11 -5679 May 03 j 13:50 -5672 May 03 j 11:59 28°**₭**08'52 -1°48'57 morning rise conjunction 15°**)** € 00'48 -5679 Jul 31 j 19:22 -5672 May 03 j 12:00 retrograde minimum elong 28°**H**08'52 1°48'59 opposition -5679 Oct 17 j 08:15 13°¥36'45 -2°16'40 max. Earth dist. -5672 May 03 j 01:29 28°**₭**07'53 30.95977 AU min. Earth dist. -5679 Oct 17 j 10:22 13°**)** 36'36 28.90132 AU morning rise -5672 May 19 j 17:28 28°**)** 44'44 -5678 Jan 03 j 22:52 12°\ 11'36 -5672 Jun 28 j 06:16 $0^{\circ}\Upsilon$ direct -5678 Apr 03 j 15:24 14°**₩**07'30 retrograde -5672 Aug 16 j 03:18 0°Y39'17 evening set -5672 Oct 04 j 23:45 30°**₹** -5678 Apr 19 j 22:08 14°\(\dagger43'30\) -2°06'38 -5672 Nov 01 j 08:42 29°**)** 15'49 -1°54'37 conjunction opposition -5678 Apr 19 j 22:08 14°\(\dagger43'30\) 2°06'46 min. Earth dist. -5672 Nov 01 j 17:19 29°**升**15'13 28.96453 AU minimum elong -5678 Apr 19 j 18:10 14°**)**43′08 30.90384 AU -5671 Jan 19 j 10:34 27°**¥**50′32 max. Earth dist. direct 29°**)** 46'49 morning rise -5678 May 06 i 04:09 15°**¥**19′26 evening set -5671 Apr 19 i 19:02 -5678 Aug 03 i 07:46 retrograde 17°**)** 14'55 -5671 Apr 25 j 19:40 $0^{\circ}\Upsilon$ 15°**¥**50′56 -2°14′06 opposition -5678 Oct 19 i 18:39 -5671 May 06 i 02:11 0°Υ22'48 -1°45'25 min. Earth dist. -5678 Oct 19 i 22:06 15°**)** € 50'41 28.90971 AU conjunction direct -5677 Jan 06 j 09:25 14°**H**25'46 minimum elong -5671 May 06 i 02:11 0°Υ22'49 1°45'27 -5677 Apr 06 j 05:24 16°**)**€21'43 max. Earth dist. -5671 May 05 j 14:58 0°**Υ**21'46 30.96692 AU evening set -5671 May 22 j 07:22 0°Y58'39 morning rise -5677 Apr 22 j 12:23 16°**¥** 57'44 -2°04'09 -5671 Aug 18 j 13:47 2°Y53'03 conjunction retrograde -5671 Nov 03 j 19:06 1°Y29'37 -1°50'45 minimum elong -5677 Apr 22 j 12:24 16°**)** 57'44 2°04'15 opposition 1°Υ28'52 28.97142 AU max. Earth dist. -5677 Apr 22 j 08:25 16°**¥**57′22 30.91295 AU min. Earth dist. -5671 Nov 04 j 05:42 -5677 May 08 j 18:17 17°**)** 33'40 direct -5670 Jan 21 j 22:47 0°Υ04'16 morning rise retrograde -5677 Aug 05 j 18:35 19°**¥**28'59 evening set -5670 Apr 22 j 09:02 2°Y00'35 -5677 Oct 22 j 04:56 18°**¥**05′06 -2°11′20 opposition -5677 Oct 22 j 08:40 18°**႘**04'50 28.91914 AU -5670 May 08 j 16:09 2°Y36'33 -1°41'43 min. Earth dist. conjunction 16°**)** 39′56 -5670 May 08 j 16:10 2°Y36'33 1°41'44 direct -5676 Jan 08 j 21:42 minimum elong 18°**)** 35'58 2°**Y**35'25 30.97380 AU evening set -5676 Apr 07 j 19:48 max. Earth dist. -5670 May 08 j 03:55 morning rise -5670 May 24 j 21:14 3°**Y**12′23 conjunction -5676 Apr 24 j 02:42 19°**米**11′58 -2°01′28 retrograde -5670 Aug 21 j 02:00 5°**Y**06'35 minimum elong -5676 Apr 24 j 02:43 19°**₭**11'58 2°01'33 opposition -5670 Nov 06 j 05:18 3°**Y**43'12 -1°46'44 max. Earth dist. -5676 Apr 23 j 20:49 19°**光**11′26 30.92285 AU min. Earth dist. -5670 Nov 06 j 15:48 3°**Y**42'27 28.97814 AU -5676 May 10 j 08:40 19°**)** 47′54 -5669 Jan 24 j 12:36 2°Y17'48 morning rise direct -5676 Aug 07 j 05:43 21°**)** 43'05 -5669 Apr 24 j 22:50 4°Υ14'07 retrograde evening set

Planetary Pheno	omena of Neptune f	From -5900	through -5398	(UT), Astrodien	st AG 18-Feb-2025	14:23,	page 19
	nical year style is used: Th						
conjunction	-5669 May 11 j 05:53	4° Υ 50'06	-1°37'53	direct	-5662 Feb 08 j 23:31	17° Ƴ 49'32	
minimum elong	-5669 May 11 j 05:53	4° Y 50'06	1°37'53	evening set	-5662 May 10 j 21:55	19° Ƴ 46'07	
max. Earth dist.	-5669 May 10 j 16:27	4° Υ 48'51	30.98064 AU	max. Earth dist.	-5662 May 26 j 10:27	20° Y 20′22	31.05463 AU
morning rise	-5669 May 27 j 10:49	5° Y 25'54					
retrograde	-5669 Aug 23 j 13:43	7° Y 19'56		conjunction	-5662 May 27 j 04:00	20° Y 22′00	-1°07'21
opposition	-5669 Nov 08 j 15:37	5° Y 56′35	-1°42'33	minimum elong	-5662 May 27 j 04:01	20° Y 22′00	1°07'15
min. Earth dist.	-5669 Nov 09 j 03:33		28.98520 AU	morning rise	-5662 Jun 12 j 06:59	20° Ƴ 57'39	
direct	-5668 Jan 27 j 00:14	4° Υ 31′08		retrograde	-5662 Sep 07 j 15:00	22° Y 50'48	
evening set	-5668 Apr 26 j 12:34	6° Y 27'28		opposition	-5662 Nov 23 j 15:33	21° Y 28'04	
				min. Earth dist.	-5662 Nov 24 j 08:00		29.06128 AU
conjunction	-5668 May 12 j 19:39	7° Y ′03′26		direct	-5661 Feb 11 j 10:47	20° Y 02'42	
minimum elong	-5668 May 12 j 19:40	7° Y ′03′26		evening set	-5661 May 13 j 11:20	21° Y 59'19	
max. Earth dist.	-5668 May 12 j 06:07		30.98807 AU			00	
morning rise	-5668 May 29 j 00:19	7° Y 39'12		conjunction	-5661 May 29 j 17:11	22° Y 35'11	
retrograde	-5668 Aug 24 j 23:44	9° Υ 33'04	1020112	minimum elong	-5661 May 29 j 17:11	22° Y 35'11	
opposition	-5668 Nov 10 j 01:44	8° Y ′09'47		max. Earth dist.	-5661 May 28 j 22:34		31.06659 AU
min. Earth dist.	-5668 Nov 10 j 13:52		28.99291 AU	morning rise	-5661 Jun 14 j 19:55	23°Υ10'48	
direct	-5667 Jan 28 j 13:24	6° Y 44'18		retrograde	-5661 Sep 10 j 03:16	25° Y 03'50	100 411 6
evening set	-5667 Apr 29 j 02:23	8° Ƴ 40'39		opposition	-5661 Nov 26 j 01:58	23° Y 41'12	
. ,.	5667.M 15:00.12	000017127	1020140	min. Earth dist.	-5661 Nov 26 j 18:24	23°°\140'03 22°\bolday15'50	29.07260 AU
conjunction	-5667 May 15 j 09:12	9° Y 16'36		direct	-5660 Feb 14 j 01:01		
minimum elong	-5667 May 15 j 09:13	9° Y 16'36		evening set	-5660 May 15 j 00:52	24°Υ12'28	21.07722 444
max. Earth dist.	-5667 May 14 j 18:07	9° Y 52'22	30.99640 AU	max. Earth dist.	-5660 May 30 j 10:31	24 1 46 28	31.07733 AU
morning rise	-5667 May 31 j 13:44	9° γ 32′22 11° Υ 46′05		amiumatian	5660 May 21 : 06:25	240\$\0110	0057120
retrograde	-5667 Aug 27 j 10:19		1922145	conjunction	-5660 May 31 j 06:25	24° Υ 48'19 24° Υ 48'19	
opposition	-5667 Nov 12 j 12:03 -5667 Nov 13 j 00:47	10° Y 22'51	29.00191 AU	minimum elong	-5660 May 31 j 06:25 -5660 Jun 16 j 08:44	24° Y 48° Y 25° Y 23° 5 4	0-5/30
min. Earth dist.	•	8° Υ 57'21	29.00191 AU	morning rise	-5660 Sep 11 j 15:09	$23 \cdot 12334$ 27° \begin{pmatrix} \text{16'49}	
direct evening set	-5666 Jan 31 j 00:21 -5666 May 01 j 15:45	10° Υ 53'43		retrograde opposition	-5660 Nov 27 j 12:29	$27 1649$ $25^{\circ}\text{Y}54'14$	0050150
evening set	-3000 May 01 J 13.43	10 1 33 43		min. Earth dist.	-5660 Nov 28 j 06:26		29.08282 AU
conjunction	-5666 May 17 j 22:37	11° Y ′29'40	1025'22	direct	-5659 Feb 15 j 13:33	23° 73238 24° $\Upsilon 28'52$	29.06262 AU
minimum elong	-5666 May 17 j 22:37	11° γ 29'40		evening set	-5659 May 17 j 14:13	26°Υ25'30	
max. Earth dist.	-5666 May 17 j 08:11		31.00609 AU	evening set	3037 Way 17 J 14.13	20 1 23 30	
morning rise	-5666 Jun 03 j 02:45	12° Υ '05'24	31.00007710	conjunction	-5659 Jun 02 j 19:34	27° Y 01′20	-0°52'39
retrograde	-5666 Aug 29 j 19:38	13° Υ '58'59		minimum elong	-5659 Jun 02 j 19:34	27° Υ 01'20	
opposition	-5666 Nov 14 j 22:21	12° Υ 35'50	-1°29'09	max. Earth dist.	-5659 Jun 01 j 23:19		31.08706 AU
min. Earth dist.	-5666 Nov 15 j 11:45		29.01218 AU	morning rise	-5659 Jun 18 j 21:28	27° Y 36'53	31.00,00110
direct	-5665 Feb 02 j 12:00	11° Y 10'20		retrograde	-5659 Sep 14 j 01:02	29° Y 29'40	
evening set	-5665 May 04 j 05:22	13° Y ′06'45		opposition	-5659 Nov 29 j 23:02	28° Ƴ 07'07	-0°53'37
<i>8</i>	., ., ., ., ., ., ., ., ., ., ., ., ., .			min. Earth dist.	-5659 Nov 30 j 17:22		29.09191 AU
conjunction	-5665 May 20 j 11:56	13° Ƴ 42'41	-1°21'10	direct	-5658 Feb 18 j 03:30	26° Ƴ 41'44	
minimum elong	-5665 May 20 j 11:56	13° Ƴ 42'41		evening set	-5658 May 20 j 03:24	28° Ƴ 38'22	
max. Earth dist.	-5665 May 19 j 19:52		31.01718 AU	max. Earth dist.	-5658 Jun 04 j 10:24	29° Υ 12'08	31.09577 AU
morning rise	-5665 Jun 05 j 15:59	14° Ƴ 18'24			·		
retrograde	-5665 Sep 01 j 07:15	16° Y 11′51		conjunction	-5658 Jun 05 j 08:18	29° Y 14'09	-0°47'36
opposition	-5665 Nov 17 j 08:26	14° Y 48'49	-1°24'24	minimum elong	-5658 Jun 05 j 08:18	29° Y 14'09	0°47'27
min. Earth dist.	-5665 Nov 17 j 21:46	14° Ƴ 47'52	29.02386 AU	morning rise	-5658 Jun 21 j 09:54	29° Y 49'40	
direct	-5664 Feb 04 j 22:18	13° Y ′23′20			-5658 Jun 26 j 05:06	9° 8	
evening set	-5664 May 05 j 18:52	15° Ƴ 19'48		retrograde	-5658 Sep 16 j 11:51	1° 8 42'19	
max. Earth dist.	-5664 May 21 j 09:44	15° Ƴ 54'16	31.02936 AU	opposition	-5658 Dec 02 j 09:31	0° 8 19'49	-0°48'10
				min. Earth dist.	-5658 Dec 03 j 04:38		29.10032 AU
conjunction	-5664 May 22 j 01:27	15° Y 55'43	-1°16'41		-5658 Dec 14 j 06:55	30° ₹Ƴ	
minimum elong	-5664 May 22 j 01:27	15° Y 55'43	1°16'37	direct	-5657 Feb 20 j 15:05	28° Y 54'23	
morning rise	-5664 Jun 07 j 05:03	16° Ƴ 31'25			-5657 Apr 27 j 11:10	9° 8	
retrograde	-5664 Sep 02 j 16:31	18° Y 24'46		evening set	-5657 May 22 j 16:25	0° 8 50'59	
opposition	-5664 Nov 18 j 18:49	17° Y ′01′50					
min. Earth dist.	-5664 Nov 19 j 09:36		29.03629 AU	conjunction	-5657 Jun 07 j 21:10	1° 8 26'45	
direct	-5663 Feb 06 j 10:36	15° Y 36′24		minimum elong	-5657 Jun 07 j 21:10	1° 8 26'45	
evening set	-5663 May 08 j 08:26	17° Ƴ 32'56		max. Earth dist.	-5657 Jun 06 j 23:42		31.10393 AU
				morning rise	-5657 Jun 23 j 22:13	2° 8 02'14	
conjunction	-5663 May 24 j 14:40	18° Y ′08'50		retrograde	-5657 Sep 18 j 20:53	3° 8 54'43	
minimum elong	-5663 May 24 j 14:40	18° Y ′08'50		opposition	-5657 Dec 04 j 19:53	2° 8 32'15	
max. Earth dist.	-5663 May 23 j 21:24		31.04210 AU	min. Earth dist.	-5657 Dec 05 j 16:00		29.10822 AU
morning rise	-5663 Jun 09 j 18:06	18° Y 44'30		direct	-5656 Feb 23 j 03:46	1°806'47	
retrograde	-5663 Sep 05 j 04:35	20° Y 37'45	101.422	evening set	-5656 May 24 j 05:32	3° 8 03'22	21 11100 :==
opposition	-5663 Nov 21 j 05:05	19° Υ 14'56		max. Earth dist.	-5656 Jun 08 j 10:39	3° 0 36'58	31.11188 AU
min. Earth dist.	-5663 Nov 21 j 19:41	19-1-13-54	29.04898 AU				

•	omena of Neptune f		-				page 20
Attention, astronom	ical year style is used: The	e year -5656	in astronomical cou	unting style is the year	5657 BCE in historical of	counting style.	
conjunction	-5656 Jun 09 j 09:45	3° 8 39'06	-0°37'18	behind sun begin	-5650 Jun 23 j 04:17	16° 8 49'39	
minimum elong	-5656 Jun 09 j 09:45	3° 8 39'06	0°37'08	behind sun end	-5650 Jun 23 j 16:55	16° 8 50'46	
morning rise	-5656 Jun 25 j 10:32	4° 8 14'33		morning rise	-5650 Jul 09 j 08:15	17° 8 25'26	
retrograde	-5656 Sep 20 j 07:28	6° 8 06'54		retrograde	-5650 Oct 03 j 20:41	19° 8 17'21	
opposition	-5656 Dec 06 j 06:19	4° 8 44'27	-0°37'07	opposition	-5650 Dec 19 j 21:54	17° 8 55'17	-0°02'59
min. Earth dist.	-5656 Dec 07 j 02:13	4° 8 43'03	29.11630 AU	min. Earth dist.	-5650 Dec 20 j 19:48	17° 8 53'46	29.17977 AU
direct	-5655 Feb 24 j 15:12	3° 8 18'57		direct	-5649 Mar 10 j 17:06	16° 8 29'58	
evening set	-5655 May 26 j 18:13	5° 8 15'30		evening set	-5649 Jun 09 j 21:28	18° 8 26'36	
	•				·		
conjunction	-5655 Jun 11 j 22:11	5° 8 51'12	-0°32'05	conjunction	-5649 Jun 25 j 22:28	19° 8 02'07	-0°00'03
minimum elong	-5655 Jun 11 j 22:12	5° 8 51'12	0°31'55	minimum elong	-5649 Jun 25 j 22:29	19° 8 02'06	0°00'11
max. Earth dist.	-5655 Jun 10 j 23:48	_	31.12012 AU	behind sun begin	-5649 Jun 25 j 16:02	19° 8 01'32	
morning rise	-5655 Jun 27 j 22:19	6° 8 26'37		behind sun end	-5649 Jun 26 j 04:57	19° 8 02'41	
retrograde	-5655 Sep 22 j 15:21	8° 8 18'51		max. Earth dist.	-5649 Jun 24 j 21:24	_	31.18491 AU
opposition	-5655 Dec 08 j 16:56	6° 8 56'25	-0°31'31	asc. node	-5649 Jun 29 j 22:14	19° 8 11'01	31.10191710
min. Earth dist.	-5655 Dec 09 j 13:56		29.12487 AU	morning rise	-5649 Jul 11 j 19:40	19° 8 37'17	
direct	-5654 Feb 27 j 03:19	5° 8 30'55	2).1240/ AO	retrograde	-5649 Oct 06 j 08:01	21° 8 29'10	
	•	7° B 27'26		opposition	-5649 Dec 22 j 08:35	20° 8 07'11	0°02'46
evening set	-5654 May 29 j 06:59		21 12024 ATT	**	,		
max. Earth dist.	-5654 Jun 13 j 10:56	8,000,26	31.12924 AU	min. Earth dist.	-5649 Dec 23 j 07:04	_	29.19036 AU
	5654 X 14:10.04	00110000	000 (140	direct	-5648 Mar 12 j 04:37	18° 8 41'54	
conjunction	-5654 Jun 14 j 10:24	8° 8 03'07		evening set	-5648 Jun 11 j 09:52	20° 8 38'34	
minimum elong	-5654 Jun 14 j 10:24	8° 8 03'07	0°26'38	max. Earth dist.	-5648 Jun 26 j 09:56	21° 8 11'45	31.19483 AU
morning rise	-5654 Jun 30 j 10:13	8° 8 38'28					
retrograde	-5654 Sep 25 j 02:12	10° 8 30'37		conjunction	-5648 Jun 27 j 10:29	21° 8 14'02	
opposition	-5654 Dec 11 j 03:18	9° 8 08'14	-0°25'52	minimum elong	-5648 Jun 27 j 10:29	21° 8 14'02	0°05'38
min. Earth dist.	-5654 Dec 11 j 23:32	9° 8 06'49	29.13449 AU	behind sun begin	-5648 Jun 27 j 04:13	21° 8 13'29	
direct	-5653 Mar 01 j 15:15	7° 8 42'43		behind sun end	-5648 Jun 27 j 16:45	21° 8 14'35	
evening set	-5653 May 31 j 19:30	9° 8 39'15		morning rise	-5648 Jul 13 j 06:56	21° 8 49'10	
				retrograde	-5648 Oct 07 j 17:30	23° 8 41'00	
conjunction	-5653 Jun 16 j 22:37	10° 8 14'53	-0°21'31	opposition	-5648 Dec 23 j 19:34	22° 8 19'05	0°08'30
minimum elong	-5653 Jun 16 j 22:37	10° 8 14'53	0°21'20	min. Earth dist.	-5648 Dec 24 j 18:58	22° 8 17'28	29.19958 AU
max. Earth dist.	-5653 Jun 15 j 23:29	10° 8 12'44	31.13935 AU	direct	-5647 Mar 14 j 17:37	20° 8 53'50	
morning rise	-5653 Jul 02 j 21:50	10° 8 50'13		evening set	-5647 Jun 13 j 22:14	22° 8 50'30	
retrograde	-5653 Sep 27 j 11:46	12° 8 42'17			·		
opposition	-5653 Dec 13 j 13:55	11° 8 19'57	-0°20'11	conjunction	-5647 Jun 29 j 22:05	23° 8 25'55	0°10'44
min. Earth dist.	-5653 Dec 14 j 11:22		29.14514 AU	minimum elong	-5647 Jun 29 j 22:05	23° 8 25'55	0°10'58
direct	-5652 Mar 03 j 02:02	9° 8 54'28		behind sun begin	-5647 Jun 29 j 17:11	23° 8 25'29	
evening set	-5652 Jun 02 j 08:06	11° 8 51'01		behind sun end	-5647 Jun 30 j 02:59	23° 8 26'21	
max. Earth dist.	-5652 Jun 17 j 11:14		31.15053 AU	max. Earth dist.	-5647 Jun 28 j 20:00		31.20340 AU
mar. Darur disc.	0002 van 17 j 11.11	12 02 120	31.10003.110	morning rise	-5647 Jul 15 j 18:05	24° 8 01'01	31.203 10110
conjunction	-5652 Jun 18 j 10:42	12° 8 26'37	-0°16'12	retrograde	-5647 Oct 10 j 04:12	25° 8 52'49	
minimum elong	-5652 Jun 18 j 10:42	12° 8 26'37		opposition	-5647 Dec 26 j 06:28	24° 8 30'56	0°14'13
morning rise	-5652 Jul 04 j 09:28	13° 8 01'54	0 13 37	min. Earth dist.	-5647 Dec 27 j 05:35		29.20755 AU
retrograde	-5652 Sep 28 j 23:06	14° 8 53'54		direct	-5646 Mar 17 j 05:19	23° 8 05'41	27.20733 AO
opposition	-5652 Dec 15 j 00:25	13° 8 31'40	0°14'28	evening set	-5646 Jun 16 j 10:22	25° 8 02'20	
min. Earth dist.	-5652 Dec 15 j 21:15		29.15655 AU	max. Earth dist.	-5646 Jul 01 j 08:18		31.21067 AU
direct	-5651 Mar 05 j 15:54	13° 8 06'14	29.13033 AU	max. Earth dist.	-3040 Jul 01 J 06.16	23 033 21	31.21007 AU
evening set	-5651 Jun 04 j 20:39	14° 8 02'49		conjunction	-5646 Jul 02 j 09:50	25° 8 37'43	0°16'03
evening set	-3031 Juli 04 j 20.39	14 002 49		minimum elong	-5646 Jul 02 j 09:49	25° 8 37'43	0°16'19
	5(51 I 20:22.45	1.40 🔾 20122	0010151				0 10 19
conjunction	-5651 Jun 20 j 22:45	14° 8 38'23		morning rise	-5646 Jul 18 j 05:04	26° 8 12'46	
minimum elong	-5651 Jun 20 j 22:45	14° 8 38'23	0°10'39	retrograde	-5646 Oct 12 j 11:53	28° 8 04'31	0010155
behind sun begin	-5651 Jun 20 j 17:43	14° 8 37'56		opposition	-5646 Dec 28 j 17:22	26° 8 42'39	
behind sun end	-5651 Jun 21 j 03:47	14° 8 38'50		min. Earth dist.	-5646 Dec 29 j 17:49		29.21428 AU
max. Earth dist.	-5651 Jun 19 j 22:49		31.16218 AU	direct	-5645 Mar 19 j 17:12	25° 8 17'25	
	-5651 Jun 30 j 15:49	15° 8		evening set	-5645 Jun 18 j 22:31	27° 8 14'02	
morning rise	-5651 Jul 06 j 20:58	15° 8 13'38					
retrograde	-5651 Oct 01 j 10:46	17° 8 05'36		conjunction	-5645 Jul 04 j 21:15	27° 8 49'22	0°21'22
opposition	-5651 Dec 17 j 11:09	15° 8 43'26	-0°08'44	minimum elong	-5645 Jul 04 j 21:15	27° 8 49'22	0°21'38
min. Earth dist.	-5651 Dec 18 j 08:55		29.16838 AU	max. Earth dist.	-5645 Jul 03 j 18:31		31.21695 AU
	-5650 Jan 13 j 18:59	15° ₹ 8		morning rise	-5645 Jul 20 j 16:04	28° 8 24'23	
direct	-5650 Mar 08 j 03:38	14° 8 18'04			-5645 Sep 14 j 09:02	Π °0	
	-5650 Apr 29 j 03:55	15° 8		retrograde	-5645 Oct 14 j 22:19	0° Ⅱ 16′04	
evening set	-5650 Jun 07 j 08:55	16° 8 14'41			-5645 Nov 15 j 03:15	30° ₹ 8	
max. Earth dist.	-5650 Jun 22 j 10:55		31.17393 AU	opposition	-5645 Dec 31 j 04:13	28° 8 54'12	0°25'35
	·			min. Earth dist.	-5644 Jan 01 j 04:00	28° 8 52'34	29.22010 AU
conjunction	-5650 Jun 23 j 10:36	16° 8 50'13	-0°05'30	direct	-5644 Mar 21 j 04:47	27° 8 28'57	
minimum elong	-5650 Jun 23 j 10:36	16° 8 50'13	0°05'16	evening set	-5644 Jun 20 j 10:25	29° 8 25'32	
S	,	_		Č	J	-	

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5644 in astronomical counting style is the year 5645 BCE in historical counting style. 29°**8**58'22 31.22239 AU max. Earth dist. -5644 Jul 05 i 06:15 morning rise -5638 Aug 04 j 15:48 13°**Ⅱ**41'03 -5644 Jul 05 j 23:39 -5638 Oct 29 j 21:43 15°**Ⅲ**32'38 0°П retrograde opposition -5637 Jan 15 j 09:24 14°**I**10′54 1°03′35 -5637 Jan 16 j 08:31 -5644 Jul 06 j 08:38 0°П00'50 0°26'38 min. Earth dist. 14°**Д**09'19 29.27026 AU conjunction -5637 Apr 06 j 18:49 -5644 Jul 06 j 08:37 0°Д00′50 12°**Ⅱ**45'48 minimum elong 0°26'56 direct 0°**Ⅲ**35'48 14°**Ⅱ**42'16 -5644 Jul 22 j 02:41 -5637 Jul 06 j 18:31 morning rise evening set 2°**Ⅲ**27′26 -5644 Oct 16 j 07:16 -5637 Jul 21 j 11:31 retrograde max. Earth dist. 15°**Ⅱ**14'56 31.27383 AU opposition -5643 Jan 01 j 15:13 1°**I**105'34 0°31'11 min. Earth dist. -5643 Jan 02 j 16:12 1°**I**03'51 29.22549 AU conjunction -5637 Jul 22 j 12:08 15°**Ⅲ**17'13 1°01'58 -5637 Jul 22 j 12:08 -5643 Feb 15 j 20:41 30°₽₩ minimum elong 15°**Ⅱ**17'13 1°02'17 -5637 Aug 07 j 01:40 15°**Ⅱ**51'51 direct -5643 Mar 23 j 15:27 29°**8**40'18 morning rise -5637 Nov 01 j 05:54 17°**Ⅱ**43'27 -5643 Apr 28 j 00:22 $0^{\circ}\Pi$ retrograde -5643 Jun 22 j 22:13 -5636 Jan 17 j 20:49 evening set 1°**耳**36′50 opposition 16°**Ⅲ**21'46 1°08'42 min. Earth dist. -5636 Jan 18 j 20:54 16°**Ⅱ**20'07 29.27853 AU conjunction -5643 Jul 08 j 19:45 2°II12'05 0°31'52 direct -5636 Apr 08 j 06:39 14°**I**I56'44 minimum elong -5643 Jul 08 j 19:44 2°**Ⅱ**12'05 0°32'09 evening set -5636 Jul 08 j 05:47 16°**Ⅲ**53'11 max. Earth dist. -5643 Jul 07 j 17:20 2°**Д**09'37 31.22781 AU morning rise -5643 Jul 24 j 13:15 2°II46'59 conjunction -5636 Jul 23 j 22:33 17°**Ⅲ**28′05 1°06'43 retrograde -5643 Oct 18 j 17:42 4°**Ⅲ**38'35 minimum elong -5636 Jul 23 j 22:32 17°**Ⅲ**28′05 1°07'03 opposition -5642 Jan 04 j 02:10 3°II16'42 0°36'45 max. Earth dist. -5636 Jul 22 j 21:10 17°**Д**25'43 31.28162 AU min. Earth dist. -5642 Jan 05 j 02:12 3°**Д**15'03 29.23102 AU morning rise -5636 Aug 08 j 11:32 18°**Ⅱ**02'40 direct -5642 Mar 26 i 05:33 1°**I**I51'25 retrograde -5636 Nov 02 i 16:32 19°**Ⅲ**54'18 evening set -5642 Jun 25 i 09:43 3°**Ⅱ**47'56 opposition -5635 Jan 19 i 08:10 18°**Ⅱ**32'39 1°13'43 max. Earth dist. -5642 Jul 10 j 04:10 4°**П**20'40 31.23355 AU min. Earth dist. -5635 Jan 20 i 07:17 18°**Ⅲ**31'04 29.28580 AU direct -5635 Apr 10 j 18:11 17°**Ⅱ**07'40 -5642 Jul 11 j 06:36 4°II23'07 0°37'02 -5635 Jul 10 j 16:56 19°**Ⅲ**04'05 conjunction evening set -5642 Jul 11 j 06:36 4°**Ⅲ**23'07 0°37'21 max. Earth dist. -5635 Jul 25 j 08:08 19°**Д**36'37 31.28817 AU minimum elong -5642 Jul 26 j 23:28 4°**I**157'59 morning rise -5642 Oct 21 j 04:41 6°**Ⅱ**49'33 -5635 Jul 26 j 09:05 19°**Ⅲ**38'57 1°11'22 conjunction retrograde -5641 Jan 06 j 13:11 5°**Ⅲ**27'40 0°42'16 -5635 Jul 26 j 09:04 opposition minimum elong 19°**Ⅲ**38'57 1°11'41 5°**Ц**25'59 29.23729 AU -5635 Aug 10 j 21:18 -5641 Jan 07 j 13:37 morning rise min. Earth dist. 20°**Ⅱ**13'29 4°**Ⅱ**02'23 -5635 Nov 05 j 01:47 -5641 Mar 28 j 16:57 22°**Ⅱ**05'09 direct retrograde 1°18'38 -5641 Jun 27 j 21:13 5°**I**I58'52 -5634 Jan 21 j 19:46 20°**Ⅱ**43'31 evening set opposition -5634 Jan 22 j 19:55 20°**I**41'52 29.29187 AU min. Earth dist. -5641 Jul 13 j 17:31 6° II 34'00 0° 42'10 -5634 Apr 13 j 04:44 19°**Ⅱ**18'34 conjunction direct 21°**Ⅱ**14'57 -5641 Jul 13 j 17:31 6° II 34'00 0° 42'27 -5634 Jul 13 j 03:57 minimum elong evening set 6°**Ⅲ**31'37 31.24023 AU -5641 Jul 12 j 15:54 max. Earth dist. morning rise -5641 Jul 29 j 09:41 7°**Ⅱ**08'49 conjunction -5634 Jul 28 j 19:22 21°**II**49'45 1°15'54 retrograde -5641 Oct 23 j 13:54 $9^{\circ}\Pi00'22$ minimum elong -5634 Jul 28 j 19:22 21°**II**49'45 1°16'14 -5640 Jan 09 j 00:05 7°**II**38'30 0°47'42 max. Earth dist. -5634 Jul 27 j 18:27 21°**П**47'25 31.29355 AU opposition min. Earth dist. -5640 Jan 10 j 00:01 7°**Д**36'51 29.24439 AU morning rise -5634 Aug 13 j 07:02 22°**Ⅲ**24'15 -5640 Mar 30 j 06:06 6°**Ⅱ**13'15 -5634 Nov 07 j 11:55 24°**Д**15'56 direct retrograde -5640 Jun 29 j 08:46 8°**Ⅲ**09'43 -5633 Jan 24 j 07:12 22°**∏**54'18 1°23'26 evening set opposition max. Earth dist. -5640 Jul 14 j 02:02 8°**Ⅱ**42'22 31.24786 AU min. Earth dist. -5633 Jan 25 j 06:33 22°**П**52'42 29.29653 AU -5633 Apr 15 j 17:54 21°**Ⅲ**29′22 direct 8°**I**I44'48 0°47'13 conjunction -5640 Jul 15 i 04:16 evening set -5633 Jul 15 i 14:59 23°**I**I25'43 8°**II**44'48 0°47'32 23°**Ц**58'07 31.29750 AU minimum elong -5640 Jul 15 i 04:16 max. Earth dist. -5633 Jul 30 i 04:25 -5640 Jul 30 i 19:53 morning rise 9°**Ⅱ**19'34 -5633 Jul 31 i 05:41 retrograde -5640 Oct 25 i 01:32 11°**I**I1'07 conjunction 24°**Ⅲ**00'28 1°20'20 minimum elong -5639 Jan 10 i 11:11 9°II49'17 0°53'04 -5633 Jul 31 i 05:40 24°**Ⅱ**00′28 1°20'39 opposition min. Earth dist. -5639 Jan 11 j 10:48 9°**I**I47'40 29.25261 AU -5633 Aug 15 j 16:41 24°**Ⅲ**34'55 morning rise -5639 Apr 01 j 18:03 8°**Ⅲ**24'04 -5633 Nov 09 j 22:54 26°**Ⅲ**26'39 direct retrograde -5639 Jul 01 j 19:57 10°**Ⅲ**20'32 -5632 Jan 26 j 18:42 25°II04'59 1°28'06 evening set opposition -5632 Jan 27 j 18:33 25°**Д**03'21 29.30007 AU min. Earth dist. -5632 Apr 17 j 04:34 conjunction -5639 Jul 17 j 14:56 10°**Д**55'35 0°52'13 direct 23°**Ⅱ**40'03 minimum elong -5639 Jul 17 j 14:55 10°**Д**55'35 0°52'31 evening set -5632 Jul 17 j 01:49 25°**Ⅲ**36′22 max. Earth dist. -5639 Jul 16 j 14:08 10°**Д**53'16 31.25639 AU -5639 Aug 02 j 05:45 11°**Ⅲ**30′18 -5632 Aug 01 j 15:54 26°**Ⅱ**11'04 1°24'39 morning rise conjunction -5639 Oct 27 j 11:03 13°**Ⅲ**21'51 -5632 Aug 01 j 15:54 26°**I**11'04 1°24'59 retrograde minimum elong -5638 Jan 12 j 22:24 12°**I**100′04 0°58′22 -5632 Jul 31 j 15:32 26°**Ц**08'47 31.30055 AU opposition max. Earth dist. -5632 Aug 17 j 02:13 26°**Ⅱ**45′28 min. Earth dist. -5638 Jan 13 j 22:18 11°**I**I58′26 29.26135 AU morning rise -5638 Apr 04 j 07:28 10°**Ⅲ**34'56 retrograde -5632 Nov 11 j 08:17 28°**Ⅲ**37'13 direct evening set -5638 Jul 04 j 07:19 12°**Ⅲ**31'23 opposition -5631 Jan 28 j 06:20 27°**Ⅲ**15'31 1°32'39 max. Earth dist. -5638 Jul 18 j 23:49 13°**Д**03'59 31.26526 AU min. Earth dist. -5631 Jan 29 j 05:42 27°**Ⅱ**13'56 29.30272 AU direct -5631 Apr 19 j 17:45 25°**I**50′37 -5638 Jul 20 j 01:27 13°**耳**06'23 0°57'08 -5631 Jul 19 j 12:27 27°II46'52 conjunction evening set -5638 Jul 20 j 01:26 13°**Ⅱ**06'23 0°57'27 max. Earth dist. -5631 Aug 03 j 00:50 28°**Ⅲ**19'11 31.30298 AU minimum elong

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5631 in astronomical counting style is the year 5632 BCE in historical counting style. opposition -5631 Aug 04 i 01:43 28°**II**21'31 1°28'50 -5624 Feb 13 i 16:22 12°9527'51 2°00'22 conjunction 12°526'33 29.33246 AU -5631 Aug 04 j 01:42 28°**Ⅲ**21'31 min. Earth dist. -5624 Feb 14 j 11:33 minimum elong 1°29'10 -5631 Aug 19 j 11:32 28°**II**55'52 -5624 May 05 j 04:30 11°903'19 direct morning rise -5631 Sep 20 j 23:17 0ಂತಾ -5624 Aug 03 j 12:36 12°959'22 evening set -5631 Nov 13 j 19:57 0°9547'39 retrograde -5630 Jan 09 j 06:16 -5624 Aug 18 j 21:14 30°R∏ conjunction 13°**©**33'43 1°54'16 29°**II**25'55 1°37'03 1°54'37 opposition -5630 Jan 30 j 17:56 minimum elong -5624 Aug 18 j 21:13 13°933'43 min. Earth dist. -5630 Jan 31 j 16:48 29°**Ⅲ**24'22 29.30524 AU max. Earth dist. -5624 Aug 18 j 01:02 13°931'49 31.33349 AU direct -5630 Apr 22 j 05:49 28°**Ⅲ**01'01 morning rise -5624 Sep 03 j 02:57 14°9507'48 evening set -5630 Jul 21 j 22:55 29°**Ⅲ**57'13 retrograde -5624 Nov 28 j 17:49 16°900'09 -5630 Jul 23 j 05:19 0ಂತಾ opposition -5623 Feb 15 j 04:32 14°**©**38'29 2°03'41 -5623 Feb 15 j 23:49 min. Earth dist. 14°537'11 29.33708 AU conjunction -5630 Aug 06 j 11:39 0°931'50 1°32'54 direct -5623 May 07 j 13:37 13°9514'03 minimum elong -5630 Aug 06 j 11:38 0°931'50 1°33'14 evening set -5623 Aug 05 j 22:35 15°9510'03 max. Earth dist. -5630 Aug 05 j 12:25 0°9529'39 31.30547 AU max. Earth dist. -5623 Aug 20 j 11:41 15°542'34 31.33746 AU morning rise -5630 Aug 21 j 20:42 1°906'08 retrograde -5630 Nov 16 j 05:21 2°957'57 conjunction -5623 Aug 21 j 06:42 15°5544'21 1°57'17 opposition -5629 Feb 02 j 05:27 1°**5**36'12 1°41'19 minimum elong -5623 Aug 21 j 06:42 15°9544'21 1°57'37 min. Earth dist. -5629 Feb 03 j 04:21 1°534'38 29.30798 AU morning rise -5623 Sep 05 j 11:50 16°9518'25 direct -5629 Apr 24 j 19:21 0°9511'19 retrograde -5623 Dec 01 j 03:46 18°9510'52 evening set -5629 Jul 24 j 09:28 2°907'29 opposition -5622 Feb 17 j 16:43 16°9549'12 2°06'49 min. Earth dist. -5622 Feb 18 i 11:27 16°9547'56 29.34035 AU conjunction -5629 Aug 08 j 21:21 2°9542'02 1°36'49 -5622 May 10 j 02:26 15°524'49 direct minimum elong -5629 Aug 08 j 21:20 2°9542'02 1°37'09 evening set -5622 Aug 08 j 08:49 17°520'47 max. Earth dist. -5629 Aug 07 j 21:45 2°539'49 31.30854 AU -5629 Aug 24 j 05:57 3°916'18 -5622 Aug 23 j 16:12 17°955'02 2°00'09 morning rise conjunction -5629 Nov 18 j 16:01 5°908'10 -5622 Aug 23 j 16:12 17°955'02 2°00'29 retrograde minimum elong -5628 Feb 04 j 17:04 -5622 Aug 22 j 20:29 3°9946'24 1°45'26 max. Earth dist. 17°553'11 31.33996 AU opposition -5628 Feb 05 j 14:28 -5622 Sep 07 j 20:58 min. Earth dist. 3°544'57 29.31158 AU 18°929'03 morning rise direct -5622 Dec 03 j 16:22 -5628 Apr 26 j 06:51 2°9521'34 retrograde 20°921'36 -5628 Jul 25 j 19:42 opposition -5621 Feb 20 j 04:45 4°9517'42 18°959'55 2°09'47 evening set -5628 Aug 09 j 09:05 -5621 Feb 20 j 23:05 max. Earth dist. 4°950'09 31.31249 AU min. Earth dist. 18°958'40 29.34222 AU 17°935'34 -5621 May 12 j 13:53 direct -5628 Aug 10 j 07:02 conjunction 4°952'12 1°40'36 evening set -5621 Aug 10 j 18:49 19°931'29 -5628 Aug 10 j 07:02 minimum elong 4°952'12 1°40'57 max. Earth dist. -5621 Aug 25 j 07:30 20°503'58 31.34095 AU -5628 Aug 25 j 14:52 morning rise 5°926'25 -5628 Nov 20 j 00:09 -5621 Aug 26 j 01:48 retrograde 7°9518'22 conjunction 20°905'41 2°02'50 -5627 Feb 06 j 04:56 5°556'37 1°49'25 minimum elong -5621 Aug 26 j 01:47 20°905'41 2°03'08 opposition min. Earth dist. -5627 Feb 07 j 02:31 5°555'09 29.31608 AU morning rise -5621 Sep 10 j 05:55 20°539'41 -5627 Apr 28 j 18:59 4°931'51 retrograde -5621 Dec 06 j 02:28 22°532'18 direct -5627 Jul 28 j 06:02 6°927'57 -5620 Feb 22 j 17:06 21°510'34 2°12'33 evening set opposition -5620 Feb 23 j 11:35 21°509'19 29.34244 AU min. Earth dist. -5627 Aug 12 j 16:36 7°502'25 1°44'15 -5620 May 14 j 03:07 19°5546'15 conjunction direct -5627 Aug 12 j 16:35 7°502'25 1°44'35 -5620 Aug 12 j 04:46 21°9542'05 minimum elong evening set -5627 Aug 11 j 18:43 7°500'22 31.31750 AU max. Earth dist. morning rise -5627 Aug 27 j 24:00 7°536'36 conjunction -5620 Aug 27 i 11:02 22°516'15 2°05'20 -5627 Nov 22 j 10:54 retrograde 9°9528'38 minimum elong -5620 Aug 27 j 11:02 22°516'15 2°05'40 opposition -5626 Feb 08 i 16:35 8°506'54 1°53'13 max. Earth dist. -5620 Aug 26 j 16:15 22°514'29 31.34050 AU min. Earth dist. -5626 Feb 09 i 12:30 8°505'33 29.32146 AU morning rise -5620 Sep 11 j 14:53 22°950'13 direct -5626 May 01 j 06:16 6°9542'12 retrograde -5620 Dec 07 j 13:41 24°9542'55 -5626 Jul 30 j 16:08 8°938'18 -5619 Feb 24 j 05:24 23°521'07 2°15'08 evening set opposition max. Earth dist. -5626 Aug 14 j 05:15 9°510'45 31.32300 AU min. Earth dist. -5619 Feb 24 j 22:34 23°519'58 29.34143 AU 21°956'49 direct -5619 May 16 j 14:53 conjunction -5626 Aug 15 j 02:09 9°512'43 1°47'45 evening set -5619 Aug 14 j 14:31 23°952'34 minimum elong -5626 Aug 15 j 02:09 9°9512'43 1°48'06 -5626 Aug 30 j 08:55 9°9546'53 conjunction -5619 Aug 29 j 20:24 24°\$26'42 2°07'40 morning rise -5626 Nov 24 j 20:16 11°539'00 minimum elong -5619 Aug 29 j 20:24 24°9526'41 2°07'59 retrograde -5625 Feb 11 j 04:30 10°9517'19 -5619 Aug 29 j 03:00 24°525'03 31.33888 AU opposition 1°56'53 max. Earth dist. -5625 Feb 12 j 00:55 10°ഇ15'56 -5619 Sep 13 j 23:43 min. Earth dist. 29.32714 AU morning rise 25°900'37 direct -5625 May 03 j 16:28 8°952'42 retrograde -5619 Dec 09 j 22:40 26°953'23 evening set -5625 Aug 02 j 02:21 10°5548'46 opposition -5618 Feb 26 j 17:43 25°**©**31'31 2°17'32 min. Earth dist. -5618 Feb 27 j 11:15 25°530'20 29.33952 AU conjunction -5625 Aug 17 j 11:41 11°9523'09 1°51'05 direct -5618 May 19 j 04:01 24°907'13 minimum elong -5625 Aug 17 j 11:40 11°9523'09 1°51'25 evening set -5618 Aug 17 j 00:10 26°902'52 max. Earth dist. -5625 Aug 16 j 15:28 11°521'15 31.32858 AU -5625 Sep 01 j 17:55 11°957'16 -5618 Sep 01 j 05:28 26°936'57 2°09'49 morning rise conjunction -5625 Nov 27 j 06:17 13°9549'31 -5618 Sep 01 j 05:28 26°936'57 retrograde minimum elong 2°10'08

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5618 in astronomical counting style is the year 5619 BCE in historical counting style. -5618 Aug 31 j 12:17 26°535'20 31.33678 AU min. Earth dist. -5611 Mar 14 j 20:02 10°Ω42'21 29.33386 AU max. Earth dist. -5618 Sep 16 j 08:32 -5611 Jun 03 j 10:50 9°Ω19'12 morning rise 27°9010'52 direct -5618 Dec 12 j 09:29 29°903'41 -5611 Aug 31 j 17:55 11°**Ω**14'26 retrograde evening set -5617 Mar 01 j 05:57 27°5641'45 2°19'44 opposition 11°**Ω**48'22 2°19'31 -5617 Mar 01 j 21:40 27°5540'41 29.33732 AU -5611 Sep 15 j 20:17 min. Earth dist. conjunction -5611 Sep 15 j 20:18 11°Ω48'22 2°19'47 direct -5617 May 21 j 16:38 26°9517'27 minimum elong -5617 Aug 19 j 09:42 -5611 Sep 15 j 09:21 evening set 28°9513'01 max. Earth dist. 11°**Ω**47'20 31.33158 AU -5611 Sep 30 j 21:23 morning rise 12°**Ω**22′10 -5611 Dec 27 j 13:44 conjunction -5617 Sep 03 j 14:31 28°547'04 2°11'46 retrograde 14°**Ω**15'55 minimum elong -5617 Sep 03 j 14:31 28°5947'04 2°12'04 opposition -5610 Mar 16 j 21:29 12°**Ω**53'47 2°29'23 -5617 Sep 02 j 22:24 12°**Ω**53'08 29.33261 AU max. Earth dist. 28°545'33 31.33455 AU min. Earth dist. -5610 Mar 17 j 07:09 -5617 Sep 18 j 17:08 morning rise 29°9520'57 direct -5610 Jun 05 j 21:46 11°**Ω**29'58 -5617 Oct 07 j 07:48 -5610 Sep 03 j 03:12 $0^{\circ}\Omega$ evening set 13°**Ω**25′09 retrograde -5617 Dec 14 j 18:30 1°Ω13'52 -5616 Feb 26 j 17:29 30°Rூ conjunction -5610 Sep 18 j 05:25 13°**Ω**59'04 2°20'07 opposition -5616 Mar 02 j 18:22 29°951'52 2°21'44 minimum elong -5610 Sep 18 j 05:25 13°Ω59'04 2°20'23 min. Earth dist. -5616 Mar 03 j 10:10 29°550'47 29.33544 AU max. Earth dist. -5610 Sep 17 j 19:43 13°**Ω**58'09 31.32957 AU direct -5616 May 23 j 03:31 28°927'35 morning rise -5610 Oct 03 j 06:13 14°**Ω**32'52 -5616 Aug 10 j 01:25 $0^{\circ}\Omega$ -5610 Oct 15 j 21:48 15°Ω evening set -5616 Aug 20 j 19:11 0°Ω23'04 retrograde -5610 Dec 30 j 00:05 16°**Ω**26'46 opposition -5609 Mar 19 j 10:22 15°**Ω**04'35 2°29'55 conjunction -5616 Sep 04 i 23:34 0°Ω57'05 2°13'33 min. Earth dist. -5609 Mar 19 i 20:23 15°**Ω**03'55 29.32992 AU minimum elong -5616 Sep 04 i 23:34 0°Ω57'05 2°13'51 -5609 Mar 22 i 06:36 15°RΩ -5616 Sep 04 j 08:45 max. Earth dist. 0°**Ω**55'41 31.33303 AU direct -5609 Jun 08 i 10:46 13°**Ω**40′51 morning rise -5616 Sep 20 j 01:48 1°**Ω**30'57 -5609 Aug 19 j 12:23 15°€ -5616 Dec 16 j 04:05 3°Ω23'58 -5609 Sep 05 j 12:32 15°**Ω**35'58 retrograde evening set opposition -5615 Mar 05 j 06:46 2°Ω01'55 2°23'32 -5615 Mar 05 j 20:40 2°**Ω**00'58 29.33428 AU -5609 Sep 20 j 14:24 16°**Ω**09'51 2°20'31 min. Earth dist. conjunction 0°**Ω**37'41 -5609 Sep 20 j 14:24 16°**Ω**09'51 2°20'46 -5615 May 25 j 15:29 minimum elong direct -5609 Sep 20 j 04:54 -5615 Aug 23 j 04:32 2°**Ω**33′06 16°**Ω**08'58 31.32617 AU evening set max. Earth dist. -5609 Oct 05 j 15:07 16°**Ω**43'40 morning rise -5615 Sep 07 j 08:25 3°Ω07'06 2°15'08 -5608 Jan 01 j 12:05 18°**Ω**37'41 conjunction retrograde -5615 Sep 07 j 08:25 3°Ω07'06 2°15'25 -5608 Mar 20 j 23:09 17°**Ω**15'27 2°30'15 minimum elong opposition -5615 Sep 06 j 18:03 3°**Ω**05'45 31.33225 AU -5608 Mar 21 j 07:27 17°**Ω**14'54 29.32569 AU max. Earth dist. min. Earth dist. -5615 Sep 22 j 10:27 3°**Ω**40′56 -5608 Jun 09 j 23:30 15°**Ω**51'45 morning rise direct 5°**Ω**34′06 -5615 Dec 18 j 15:27 -5608 Sep 06 j 21:50 17°**Ω**46'47 retrograde evening set -5614 Mar 07 j 19:14 4°Ω12'00 2°25'07 opposition min. Earth dist. -5614 Mar 08 j 08:37 4°**Ω**11'06 29.33398 AU conjunction -5608 Sep 21 j 23:29 18°**Q**20'41 2°20'43 direct -5614 May 28 j 00:26 2° **Ω**47'51 minimum elong -5608 Sep 21 j 23:29 18°**Q**20'41 2°20'59 evening set -5614 Aug 25 j 13:51 4°**Ω**43'12 max. Earth dist. -5608 Sep 21 j 14:35 18°**Ω**19'50 31.32115 AU morning rise -5608 Oct 07 j 00:06 18°**Ω**54'29 -5614 Sep 09 j 17:28 5°**Ω**17'11 2°16'32 retrograde -5607 Jan 02 j 21:40 20°**Ω**48'37 conjunction -5614 Sep 09 j 17:28 5°**Ω**17'11 2°16'49 -5607 Mar 23 j 12:07 19°**Ω**26'19 2°30'22 minimum elong opposition -5614 Sep 09 j 04:52 5°**Ω**16'00 31.33221 AU min. Earth dist. -5607 Mar 23 j 20:47 19°**Ω**25'44 29.32004 AU max. Earth dist. -5614 Sep 24 j 19:05 5°**Ω**51′01 -5607 Jun 12 j 10:34 18°**Ω**02'39 morning rise direct -5614 Dec 21 i 01:30 7°**Ω**44'18 19°**Ω**57'35 retrograde evening set -5607 Sep 09 i 06:55 opposition -5613 Mar 10 j 07:33 6°Ω22'12 2°26'30 -5607 Sep 24 i 08:27 20°Ω31'27 2°20'44 min. Earth dist. -5613 Mar 10 j 19:51 6°**Ω**21'22 29.33404 AU conjunction -5607 Sep 24 i 08:27 direct -5613 May 30 j 12:37 4°Ω58'08 minimum elong 20°Ω31'27 2°20'57 evening set -5613 Aug 27 j 23:18 6°£53′27 max. Earth dist. -5607 Sep 24 i 00:44 20°Ω30'43 31.31493 AU morning rise -5607 Oct 09 i 08:59 21°Ω05'16 -5613 Sep 12 j 02:22 7°Ω27'24 2°17'43 retrograde -5606 Jan 05 j 07:06 22°Ω59'30 conjunction -5613 Sep 12 j 02:22 7°**Ω**27'24 2°18'00 -5606 Mar 26 j 00:53 21°Ω37'07 2°30'16 minimum elong opposition 7°**Ω**26'12 31.33240 AU -5613 Sep 11 j 13:39 21°Ω36'38 29.31317 AU max. Earth dist. min. Earth dist. -5606 Mar 26 j 07:59 -5613 Sep 27 j 03:53 morning rise 8°Ω01'14 direct -5606 Jun 14 j 23:06 20°Ω13'27 retrograde -5613 Dec 23 j 14:37 9°**Ω**54'40 evening set -5606 Sep 11 j 16:03 22°**Ω**08'16 opposition -5612 Mar 11 j 20:08 8°Ω32'34 2°27'41 8°**Ω**31'48 29.33425 AU -5612 Mar 12 j 07:27 -5606 Sep 26 j 17:18 22°Ω42'08 2°20'32 min. Earth dist. conjunction 7°**Ω**08'35 -5606 Sep 26 j 17:18 22°Ω42'08 2°20'46 direct -5612 May 31 j 22:49 minimum elong -5612 Aug 29 j 08:28 9°**Ω**03'51 -5606 Sep 26 j 09:39 22°**Ω**41'24 31.30767 AU evening set max. Earth dist. -5606 Oct 11 j 17:55 23°**Ω**15'57 morning rise conjunction -5612 Sep 13 j 11:20 9°**Ω**37'48 2°18'43 retrograde -5605 Jan 07 j 18:14 25°**Ω**10′17 minimum elong -5612 Sep 13 j 11:20 9°**Ω**37'48 2°19'00 opposition -5605 Mar 28 j 13:36 23°**Ω**47'48 2°29'57 max. Earth dist. -5612 Sep 13 j 00:34 9°**Ω**36'47 31.33234 AU min. Earth dist. -5605 Mar 28 j 20:23 23°**Ω**47'20 29.30576 AU morning rise -5612 Sep 28 j 12:28 10°**Ω**11'37 direct -5605 Jun 17 j 08:31 22°**Ω**24'08 -5612 Dec 25 j 01:27 12°**Ω**05'13 -5605 Sep 14 j 00:59 24°Ω18'49 retrograde evening set -5611 Mar 14 j 08:56 10°**Ω**43'05 2°28'38 opposition

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Earth dist. -5604 Mar 30 j 07:52 25°**Ω**57'59 29.29836 AU conjunction 10° Mp 06'45 2°11'48 24°**Ω**34'42 -5598 Oct 13 j 16:05 direct -5604 Jun 18 j 21:15 minimum elong 10° Mp 06'45 2°11'57 -5598 Oct 13 j 17:47 evening set -5604 Sep 15 j 09:53 26°**Ω**29'17 max. Earth dist. 10° Mp 06'54 31.26407 AU morning rise -5598 Oct 28 j 17:26 10° Mp 40'42 conjunction -5604 Sep 30 j 10:50 27°Ω03'08 2°19'33 retrograde -5597 Jan 25 j 13:19 12° m 36'05 -5604 Sep 30 j 10:51 27°**Ω**03'08 2°19'45 -5597 Apr 15 j 20:49 minimum elong opposition 11° Mp 13'06 2°19'47 -5604 Sep 30 j 05:18 27°**Ω**02'36 31.29318 AU -5597 Apr 15 j 18:35 max. Earth dist. min. Earth dist. 11° Mp 13'15 29.26277 AU morning rise -5604 Oct 15 j 11:30 27°**Ω**36'57 direct -5597 Jul 05 j 04:02 9°m/49'51 retrograde -5603 Jan 11 j 16:46 29°**Ω**31'31 evening set -5597 Oct 01 j 00:06 11° Mp 43'52 opposition -5603 Apr 01 j 15:20 28°Ω08'49 2°28'41 min. Earth dist. -5603 Apr 01 j 19:21 28° **Ω**08'33 29.29177 AU conjunction -5597 Oct 16 j 01:09 12° m 17'47 2°09'50 direct -5603 Jun 21 j 06:49 26°**Ω**45'11 minimum elong -5597 Oct 16 j 01:09 12° Mp 17'47 2°09'57 evening set -5603 Sep 17 j 18:42 28°**Ω**39'41 max. Earth dist. -5597 Oct 16 j 02:43 12° m 17'56 31.25812 AU morning rise -5597 Oct 31 j 02:52 12° m 51'46 conjunction -5603 Oct 02 j 19:45 29°Ω13'32 2°18'45 retrograde -5596 Jan 28 j 01:34 14° m/ 47'19 minimum elong -5603 Oct 02 j 19:45 29°Ω13'32 2°18'56 opposition -5596 Apr 17 i 10:03 13° m 24'15 2°17'35 max. Earth dist. -5603 Oct 02 j 16:26 29°Ω13'13 31.28698 AU min. Earth dist. -5596 Apr 17 i 07:35 13° m 24'25 29.25626 AU morning rise -5603 Oct 17 j 20:19 29°**Ω**47'22 direct -5596 Jul 06 i 13:48 12° m 01'04 -5603 Oct 23 j 14:56 0° m evening set -5596 Oct 02 j 08:58 13° m 55'00 -5602 Jan 14 j 03:14 1° m/42'03 retrograde -5602 Apr 04 j 04:05 0° m 19'17 2°27'44 -5596 Oct 17 j 10:20 14° m 28'55 2°07'41 conjunction opposition -5602 Apr 04 j 07:27 0° Mp 19'03 29.28602 AU -5596 Oct 17 j 10:21 14° m 28'55 2°07'48 min. Earth dist. minimum elong -5602 Apr 16 j 04:45 -5596 Oct 17 j 13:35 14° m/29'14 31.25095 AU 30°R€ max. Earth dist. -5602 Jun 23 j 17:48 28°**Ω**55'41 -5596 Nov 01 j 12:11 15° Mp 02'56 direct morning rise 16° M 58'37 -5595 Jan 29 j 11:56 -5602 Aug 26 j 20:37 0° mb retrograde -5602 Sep 20 j 03:36 0° M 50'06-5595 Apr 19 j 23:14 15°m/35'29 2°15'11 evening set opposition -5595 Apr 19 j 19:47 min. Earth dist. 15° m 35'43 29.24828 AU -5602 Oct 05 j 04:30 1° Tp 23'57 2°17'46 -5595 Jul 09 j 02:15 14° m 12'20 conjunction direct 1° Mp 23'57 2°17'57 -5602 Oct 05 j 04:30 -5595 Oct 04 j 18:08 16° M 06'09 minimum elong evening set -5602 Oct 05 j 01:31 1°Mp23'40 31.28181 AU max. Earth dist. -5602 Oct 20 j 05:18 1° **m** 57'48 -5595 Oct 19 j 19:30 16° Mp 40'06 $2^{\circ}05'20$ morning rise conjunction retrograde -5601 Jan 16 j 15:59 3° m 52'37 minimum elong -5595 Oct 19 j 19:31 16° Mp 40'06 2°05'26 opposition -5601 Apr 06 j 16:52 2° m/29'47 2°26'34 max. Earth dist. -5595 Oct 19 j 22:23 16° Mp 40'23 31.24245 AU min. Earth dist. -5601 Apr 06 j 18:14 2° m/29'42 29.28120 AU morning rise -5595 Nov 03 j 21:51 17° m 14'09 -5601 Jun 26 j 04:30 1°Mp06'15 retrograde -5594 Feb 01 j 00:48 19° **m** 09'57 direct -5601 Sep 22 j 12:18 3°m,00'35 -5594 Apr 22 j 12:12 17° m/46'43 2°12'35 evening set opposition min. Earth dist. -5594 Apr 22 j 07:56 17° m 47'00 29.23918 AU -5601 Oct 07 j 13:15 3° m 34'26 2°16'34 -5594 Jul 11 j 11:43 16° m 23'35 conjunction direct -5601 Oct 07 j 13:16 3° Mp 34'26 2°16'44 -5594 Oct 07 j 03:02 18° m 17'18 minimum elong evening set -5601 Oct 07 j 11:58 3° m 34'19 31.27726 AU max. Earth dist. -5601 Oct 22 i 14:05 4°m/08'19 -5594 Oct 22 i 04:46 18° m 51'17 2°02'49 morning rise conjunction retrograde -5600 Jan 19 i 03:26 6° m 03'17 minimum elong -5594 Oct 22 i 04:47 18° m 51'17 2°02'56 opposition -5600 Apr 08 i 05:55 4° m 40'24 2°25'11 max. Earth dist. -5594 Oct 22 i 09:24 18° m 51'43 31.23285 AU min. Earth dist. -5600 Apr 08 j 07:05 4° m 40'19 29.27687 AU morning rise -5594 Nov 06 i 07:18 19° m 25'21 direct -5600 Jun 27 j 16:48 3° m 16'57 retrograde -5593 Feb 03 i 11:29 21°m21'16 -5600 Sep 23 j 21:11 5° m 11'12 -5593 Apr 25 j 01:20 19° m 57'56 2°09'48 evening set opposition min. Earth dist. -5593 Apr 24 j 20:45 19° m 58'14 29.22914 AU -5593 Jul 13 j 22:42 conjunction -5600 Oct 08 j 22:07 5° m 45'04 2°15'11 direct 18° m 34'48 -5600 Oct 08 j 22:08 minimum elong 5° m 45'04 2°15'21 evening set -5593 Oct 09 j 11:54 20° m 28'25 5° Mp 45'01 31.27320 AU max. Earth dist. -5600 Oct 08 j 21:41 -5600 Oct 23 j 23:09 6° Mp 18'57 conjunction -5593 Oct 24 j 13:44 21° Mp 02'24 2°00'08 morning rise -5599 Jan 20 j 16:13 8° To 14'04 -5593 Oct 24 j 13:45 21° Mp 02'24 2°00'12 retrograde minimum elong -5599 Apr 10 j 18:48 6° Ty 51'09 $2^{\circ}23'36$ -5593 Oct 24 j 18:40 21° m 02'52 31.22279 AU opposition max. Earth dist. 6° Mp 51'12 29.27274 AU -5593 Nov 08 j 16:44 21°M 36'31 min. Earth dist. -5599 Apr 10 j 17:56 morning rise 5° m 27'46 direct -5599 Jun 30 j 04:45 retrograde -5592 Feb 06 j 00:39 23° m 32'32 evening set -5599 Sep 26 j 06:02 7° m 21'57 opposition -5592 Apr 26 j 14:23 22° Mp 09'06 2°06'50 min. Earth dist. -5592 Apr 26 j 07:59 22° m 09'32 29.21903 AU conjunction -5599 Oct 11 j 07:00 7° m 55'50 2°13'35 direct -5592 Jul 15 j 09:36 20° m 45'59 minimum elong -5599 Oct 11 j 07:01 7° m 55'50 2°13'44 evening set -5592 Oct 10 j 20:47 22° m 39'29 -5599 Oct 11 j 07:20 7° m 55'51 31.26891 AU max. Earth dist. -5599 Oct 26 j 08:16 8° m 29'45 -5592 Oct 25 j 22:54 23° m 13'30 1°57'16 morning rise conjunction

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Earth dist. -5591 Apr 28 j 20:51 24° m 20'41 29.20937 AU evening set -5585 Oct 26 j 12:01 direct -5591 Jul 17 j 21:32 22° m 57'08-5585 Nov 10 j 16:28 evening set -5591 Oct 13 j 05:39 24° m 50'33 conjunction 8°**£**34'02 1°32'38 minimum elong -5585 Nov 10 j 16:29 8°**£**34'02 1°32'36 conjunction -5591 Oct 28 j 08:03 25° m/24'36 1°54'14 max. Earth dist. -5585 Nov 11 j 06:01 8°**೨**35'19 31.16144 AU minimum elong -5591 Oct 28 j 08:03 25° Mp 24'361°54'17 morning rise -5585 Nov 25 j 22:59 9°**£**08'30 -5591 Oct 28 j 15:32 max. Earth dist. 25° m 25'18 31.20367 AU retrograde -5584 Feb 23 j 23:43 11°**≏**05'35 morning rise -5591 Nov 12 j 11:46 25° m 58'46 opposition -5584 May 14 j 22:43 9°**£**41'42 1°36'46 retrograde -5590 Feb 10 j 01:55 27° m 55'01 min. Earth dist. -5584 May 14 j 09:28 9°**≏**42'36 29.15824 AU opposition -5590 May 01 j 16:20 26° Mp 31'25 2°00'21 direct -5584 Aug 02 j 02:22 8°**£**19'00 min. Earth dist. -5590 May 01 j 07:29 26° M 32'00 29.20059 AU evening set -5584 Oct 27 j 21:31 10°**2**11'56 direct -5590 Jul 20 j 09:17 25° Mp 08'21 evening set -5590 Oct 15 j 14:36 27° m 01'41 conjunction -5584 Nov 12 j 02:19 10°**≏**46'12 1°28'31 minimum elong -5584 Nov 12 j 02:20 10°**≏**46'13 1°28'30 conjunction -5590 Oct 30 j 17:12 27° mp 35'45 1°51'02 max. Earth dist. -5584 Nov 12 j 15:48 10°**♀**47'29 31.15310 AU minimum elong -5590 Oct 30 j 17:12 27° m 35'45 1°51'05 morning rise -5584 Nov 27 j 09:27 11°**≏**20'44 max. Earth dist. -5590 Oct 31 i 01:29 27° m 36'32 31.19535 AU retrograde -5583 Feb 25 i 13:32 13°**♀**17'55 morning rise -5590 Nov 14 j 21:23 28° m 09'59 opposition -5583 May 17 j 11:46 11°**≏**53'58 1°32'18 -5589 Jan 23 i 18:49 0∘∙თ min. Earth dist. -5583 May 16 j 21:16 11°**2**54'57 29.14920 AU -5589 Feb 12 i 12:52 0°**£**06'21 -5583 Aug 04 j 13:01 10°**£**31'16 retrograde direct -5589 Mar 04 j 12:07 30°R ₩ evening set -5583 Oct 30 j 07:01 12°**£**24'08 -5589 May 04 j 05:21 28° m/42'41 1°56'51 opposition -5589 May 03 j 20:22 -5583 Nov 14 j 12:17 12°**2**58'27 1°24'16 min. Earth dist. 28° m 43'17 29.19278 AU conjunction -5583 Nov 14 j 12:18 -5589 Jul 22 j 19:56 27° m 19'40 12°**♀**58'27 1°24'13 direct minimum elong -5589 Oct 17 j 23:28 -5583 Nov 15 j 02:28 29° m 12'56 max. Earth dist. 12°**♀**59'47 31.14332 AU evening set -5583 Nov 29 j 19:57 morning rise 13°**£**33'01 -5582 Feb 28 j 02:06 -5589 Nov 02 j 02:30 29° m/ 47'02 1°47'40 conjunction retrograde 15°**-**230'18 -5589 Nov 02 j 02:31 29° m 47'02 1°47'41 min. Earth dist. -5582 May 19 j 10:54 14°**2**07'12 29.13868 AU minimum elong 29° To 48'00 31.18813 AU -5589 Nov 02 j 12:39 -5582 May 20 j 00:59 max. Earth dist. opposition 14°**2**06'15 1°27'41 -5589 Nov 07 j 19:22 0∘Ω direct -5582 Aug 07 j 00:16 12°**2**43'33 -5589 Nov 17 j 07:01 -5582 Nov 01 j 16:28 morning rise 0°**£**21'19 evening set 14°**2**36'19 retrograde -5588 Feb 15 j 00:19 2°**2**17'49 -5588 May 05 j 18:19 0°**2**54'06 1°53'09 conjunction -5582 Nov 16 j 22:12 15°**2**10'41 1°19'54 opposition min. Earth dist. -5588 May 05 j 07:24 0°**£**54'50 29.18582 AU minimum elong -5582 Nov 16 j 22:13 15°**≙**10'41 1°19'51 -5588 Jun 10 j 23:48 30°R, My max. Earth dist. -5582 Nov 17 j 13:01 15°**£**12'05 31.13232 AU direct -5588 Jul 24 j 08:40 29° m 31'10 morning rise -5582 Dec 02 j 06:23 15°**-**45′17 -5588 Sep 03 j 22:40 0∘**ত** -5581 Mar 02 j 15:22 17°**-**42'39 retrograde -5588 Oct 19 j 08:28 1°**-**24'21 -5581 May 22 j 13:58 16°**≏**18'30 1°22'57 evening set opposition -5581 May 21 j 22:14 16°**2**19'34 29.12704 AU min. Earth dist. -5588 Nov 03 j 11:42 1°**2**58'30 1°44'08 14°**£**55'47 conjunction direct -5581 Aug 09 j 11:53 -5588 Nov 03 j 11:43 minimum elong 1°**2**58'30 1°44'10 evening set -5581 Nov 04 i 02:02 16°**-**48′27 max. Earth dist. -5588 Nov 03 j 21:59 1°**2**59'28 31.18156 AU -5581 Nov 19 i 08:08 morning rise -5588 Nov 18 j 16:52 2°**2**32'49 conjunction 17°**2**22'51 1°15'25 retrograde -5587 Feb 16 i 13:17 4°**₽**29'28 minimum elong -5581 Nov 19 i 08:08 17°**2**22'51 1°15'20 -5587 May 08 j 07:27 3°**2**05'43 1°49'18 max. Earth dist. -5581 Nov 19 i 23:11 17°**2**24'16 31.12036 AU opposition min. Earth dist. -5587 May 07 j 20:09 3°**2**06'29 29.17944 AU -5581 Dec 04 j 16:59 17°**♀**57'30 morning rise -5587 Jul 26 j 18:36 1°**-**42'51 -5580 Mar 04 j 03:39 19°**£**54'56 direct retrograde -5587 Oct 21 j 17:32 3°**£**35'58 18°**♀**31'43 29.11492 AU evening set min. Earth dist. -5580 May 23 j 11:43 opposition -5580 May 24 j 03:06 18°**♀**30'40 1°18'06 conjunction -5587 Nov 05 j 21:17 4° 210'09 1° 40'27 -5580 Aug 10 j 23:08 17°**♀**07'55 direct minimum elong -5587 Nov 05 j 21:18 4° № 10'09 1° 40'27 evening set -5580 Nov 05 j 11:25 19°**2**00'30 max. Earth dist. -5587 Nov 06 j 09:27 4°**£**11'18 31.17526 AU -5580 Nov 20 j 18:09 19°**△**34'56 1°10'49 morning rise -5587 Nov 21 j 02:46 4°**£**44'31 conjunction -5580 Nov 20 j 18:09 retrograde -5586 Feb 18 j 23:34 6°**£**41'19 minimum elong 19°**2**34'56 1°10'44 -5580 Nov 21 j 10:51 19°**≙**36'30 31.10829 AU opposition -5586 May 10 j 20:20 5°**£**17'32 1°45'17 max. Earth dist. min. Earth dist. -5586 May 10 j 08:00 5°**£**18'22 29.17296 AU morning rise -5580 Dec 06 j 03:28 20°**₽**09'38 direct -5586 Jul 29 j 06:29 3°**£**54'43 retrograde -5579 Mar 06 j 16:13 22°**₽**07'08 evening set -5586 Oct 24 j 02:50 5°**£**47'48 opposition -5579 May 26 j 15:59 20°**₽**42'45 1°13'08 min. Earth dist. -5579 May 25 j 22:59 20°**£**43'54 29.10285 AU conjunction -5586 Nov 08 j 06:48 6°**£**22'00 1°36'37 direct -5579 Aug 13 j 12:26 19°**£**19'59 minimum elong -5586 Nov 08 j 06:49 -5579 Nov 07 j 21:07 21°**♀**12'29 6°**£**22'00 1°36'37 evening set

max. Earth dist.

-5586 Nov 08 j 18:43

6°**£**23'08 31.16874 AU

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5579 in astronomical counting style is the year 5580 BCE in historical counting style. -5579 Nov 23 i 04:09 21°**2**46'57 1°06'07 retrograde -5572 Mar 22 j 08:28 7°**IL**34'42 conjunction -5579 Nov 23 i 04:09 21°**-**46'57 min. Earth dist. -5572 Jun 10 j 11:40 6°ML11'29 29.03891 AU minimum elong 1°06'01 max. Earth dist. -5579 Nov 23 j 20:42 21°**♀**48'31 31.09652 AU -5572 Jun 11 j 09:39 6°M09'59 0°35'39 opposition -5579 Dec 08 j 14:12 22°**₽**21'42 direct -5572 Aug 28 j 14:08 4°M47'24 morning rise -5578 Mar 09 j 05:06 -5572 Nov 22 j 18:28 6°M39'43 retrograde 24°**₽**19'17 evening set min. Earth dist. -5578 May 28 j 11:34 22°**♀**55'59 29.09152 AU opposition -5578 May 29 j 04:47 22°**♀**54'48 1°08'03 conjunction -5572 Dec 08 j 05:02 7°**I**IL14'30 0°30'48 -5572 Dec 08 j 05:03 direct -5578 Aug 15 j 22:52 21°**♀**32'02 minimum elong 7°**IL**14'30 0°30'37 evening set -5578 Nov 10 j 06:40 23°**£**24'28 max. Earth dist. -5572 Dec 09 j 02:39 7°M16'32 31.03406 AU morning rise -5572 Dec 23 j 19:15 7°M49'37 conjunction -5578 Nov 25 j 14:20 23°**♀**58'59 1°01'20 retrograde -5571 Mar 24 j 22:03 9°M47'59 -5578 Nov 25 j 14:21 -5571 Jun 13 j 22:34 minimum elong 23°**♀**58'59 1°01'14 opposition 8°M23'14 0°29'59 max. Earth dist. -5578 Nov 26 j 08:49 24°**♀**00'44 31.08564 AU min. Earth dist. -5571 Jun 13 j 01:25 8°M24'41 29.02966 AU morning rise -5578 Dec 11 j 00:47 24°**△**33'47 direct -5571 Aug 31 j 01:07 7°ML00'40 retrograde -5577 Mar 11 j 15:39 26°**£**31'27 evening set -5571 Nov 25 j 04:57 8°M52'57 opposition -5577 May 31 j 17:38 25°**≙**06'54 1°02'53 min. Earth dist. -5577 May 30 j 23:09 25°**♀**08'10 29.08106 AU conjunction -5571 Dec 10 j 16:11 9°**™**27'47 0°25'29 direct -5577 Aug 18 j 11:00 23°**£**44'09 minimum elong -5571 Dec 10 j 16:11 9°**M**27'47 0°25'17 evening set -5577 Nov 12 j 16:18 25°**♀**36'31 max. Earth dist. -5571 Dec 11 j 14:48 9°M29'55 31.02426 AU morning rise -5571 Dec 26 j 06:50 10°ML02'58 conjunction -5577 Nov 28 j 00:19 26°**♀**11'04 0°56'26 retrograde -5570 Mar 27 j 12:18 12°M01'23 minimum elong -5577 Nov 28 i 00:19 26°**♀**11'04 0°56'19 opposition -5570 Jun 16 j 11:10 10°MJ36'35 0°24'18 max. Earth dist. -5577 Nov 28 i 18:45 26° **2**12'49 31.07584 AU min. Earth dist. -5570 Jun 15 j 13:03 10°ML38'06 29.01917 AU morning rise -5577 Dec 13 j 11:32 26°**£**45'56 direct -5570 Sep 02 j 14:25 9°M14'00 -5576 Mar 13 j 04:37 28°**₽**43'43 evening set -5570 Nov 27 j 15:37 11°ML06'16 retrograde -5576 Jun 01 j 11:05 27°**2**20′26 29.07177 AU min. Earth dist. -5576 Jun 02 j 06:32 27°**₽**19'07 0°57'36 -5570 Dec 13 j 03:12 11°ML41'09 0°20'09 conjunction opposition -5570 Dec 13 j 03:12 11°ML41'09 0°19'57 -5576 Aug 19 j 20:39 25° € 56'23 minimum elong direct -5576 Nov 14 j 02:02 -5570 Dec 14 j 00:59 27°<u>₽</u>48'43 max. Earth dist. 11°M43'12 31.01326 AU evening set -5570 Dec 28 j 18:37 morning rise 12°MJ16'23 -5576 Nov 29 j 10:41 28°**2**3'19 0°51'27 -5569 Mar 30 j 01:50 conjunction retrograde 14°ML14'52 -5576 Nov 29 j 10:41 -5569 Jun 18 j 02:20 minimum elong 28°**\(\Omega\)**23'19 0°51'20 min. Earth dist. 12°M51'29 29.00771 AU -5576 Nov 30 j 06:51 max. Earth dist. 28°**£**25'14 31.06696 AU -5569 Jun 19 j 00:01 12°M49'59 0°18'34 opposition -5576 Dec 14 j 22:24 -5569 Sep 05 j 01:13 morning rise 28°**♀**58'14 direct 11°M27'22 -5575 Jan 14 j 12:39 -5569 Nov 30 j 02:01 0°M evening set 13°**I**L19'36 -5575 Mar 15 j 16:04 retrograde 0°M56'08 -5569 Dec 15 j 14:19 13°M54'30 0°14'47 -5575 May 18 j 01:36 conjunction opposition -5575 Jun 04 j 19:17 29°**2**31'29 0°52'14 minimum elong -5569 Dec 15 j 14:19 13°M54'30 0°14'33 min. Earth dist. -5575 Jun 03 j 23:36 29°**♀**32'50 29.06323 AU behind sun begin -5569 Dec 15 j 11:28 13°M54'15 direct -5575 Aug 22 j 07:06 28°**♀**08'48 behind sun end -5569 Dec 15 j 17:11 13°M54'46 -5575 Nov 15 j 23:45 0°M max. Earth dist. -5569 Dec 16 j 13:28 13°M.56'41 31.00140 AU -5575 Nov 16 j 11:57 0° ML 01'07-5569 Dec 31 j 06:11 14°**™**29'47 evening set morning rise -5568 Jan 14 j 09:09 -5575 Dec 01 j 21:04 0°M35'46 0°46'24 -5568 Mar 31 j 13:16 conjunction retrograde 16°M28'19 -5575 Dec 01 j 21:04 -5568 Jun 20 j 12:41 minimum elong 0°M35'46 0°46'15 opposition 15°M03'21 0°12'48 -5575 Dec 02 j 17:24 max. Earth dist. 0°MJ37'41 31.05885 AU min. Earth dist. -5568 Jun 19 j 14:23 15°ML04'53 28.99551 AU morning rise -5575 Dec 17 i 09:27 1°M10'44 -5568 Jun 22 j 13:20 15°RM retrograde -5574 Mar 18 i 05:49 3°M08'45 direct -5568 Sep 06 i 14:00 13°M40'41 min. Earth dist. -5574 Jun 06 j 11:01 1°ML45'32 29.05526 AU -5568 Nov 16 i 01:37 15°M -5574 Jun 07 j 08:02 1°ML44'05 0°46'46 -5568 Dec 01 j 12:46 15°M32'51 opposition evening set -5574 Aug 24 j 17:14 0°M21'27 direct -5574 Nov 18 j 21:54 2°M13'45 -5568 Dec 17 j 01:29 16°ML07'48 0°09'24 evening set conjunction -5568 Dec 17 j 01:29 16°ML07'48 0°09'11 minimum elong conjunction -5574 Dec 04 j 07:28 2°M48'26 0°41'15 behind sun begin -5568 Dec 16 j 20:00 16°ML07'19 minimum elong -5574 Dec 04 j 07:29 2°M-48'26 0°41'06 behind sun end -5568 Dec 17 j 06:57 16°ML08'18 max. Earth dist. -5574 Dec 05 j 04:38 2°M50'26 31.05088 AU max. Earth dist. -5568 Dec 18 j 00:01 16°M 09'56 30.98920 AU -5574 Dec 19 j 20:26 3°M23'28 morning rise -5567 Jan 01 j 18:05 16°ML43'08 morning rise -5573 Mar 20 j 18:24 5°M21'37 -5567 Apr 03 j 02:46 18°M41'42 retrograde retrograde -5573 Jun 09 j 20:55 -5567 Jun 22 j 02:29 17°ML18'11 28.98343 AU opposition 3°M56'55 0°41'15 min. Earth dist. -5573 Jun 09 j 00:20 -5567 Jun 23 j 01:07 $17^{\circ}\text{ML}16^{\prime}38$ 0°07'01 min. Earth dist. 3°M58'20 29.04726 AU opposition 15°M53'54 direct -5573 Aug 27 j 03:28 2°M34'19 direct -5567 Sep 09 j 00:55 evening set -5573 Nov 21 j 08:04 4°M26'37 evening set -5567 Dec 03 j 23:28 17°M46'03 conjunction -5573 Dec 06 j 18:14 5°ML01'22 0°36'03 conjunction -5567 Dec 19 j 12:46 18°M21'02 0°04'01 minimum elong -5573 Dec 06 j 18:14 5°M01'22 0°35'53 minimum elong -5567 Dec 19 j 12:46 18° M $_{2}1'02$ 0°03'46 -5573 Dec 07 j 16:02 5°ML03'25 31.04285 AU behind sun begin -5567 Dec 19 j 06:22 18°M20'28 max. Earth dist. -5573 Dec 22 j 07:44 behind sun end -5567 Dec 19 j 19:10 18°M21'37 morning rise 5°M36'26

Planetary Pheno	omena of Neptune 1	from -5900	through -5398	(UT), Astrodiens	st AG 18-Feb-2025	14:23,	page 27
•	ical year style is used: Th		-				
max. Earth dist.	-5567 Dec 20 j 12:39	18°ML23'17	30.97724 AU	conjunction	-5560 Jan 02 j 09:52	1° ∡ ′41′08	-0°28'27
morning rise	-5566 Jan 04 j 05:50	18°M56'24		minimum elong	-5560 Jan 02 j 09:52	1° ∡ 1'08	0°28'44
retrograde	-5566 Apr 05 j 14:05	20°M55'00		max. Earth dist.	-5560 Jan 03 j 11:40	1° ∡ ¹43'34	30.92886 AU
opposition	-5566 Jun 25 j 13:36	19°M29'51	0°01'14	morning rise	-5560 Jan 18 j 06:18	2° ∡ 16'44	
min. Earth dist.	-5566 Jun 24 j 14:55	19°M31'25	28.97184 AU	retrograde	-5560 Apr 18 j 21:18	4° ∡ 15'41	
direct	-5566 Sep 11 j 12:24	18° ™ 07'04		opposition	-5560 Jul 08 j 15:33	2° ∡ 50′21	
desc. node	-5566 Sep 11 j 19:00	18°ML07'05		min. Earth dist.	-5560 Jul 07 j 14:52		28.92644 AU
evening set	-5566 Dec 06 j 10:08	19° M 59'11		direct	-5560 Sep 24 j 04:16	1° ∡ ′27′31	
				evening set	-5560 Dec 19 j 05:17	3° ∡ 19'47	
conjunction	-5566 Dec 21 j 23:54	20°M34'12				_	
minimum elong	-5566 Dec 21 j 23:54	20°M34'12	0°01'46	conjunction	-5559 Jan 03 j 22:08	3° ∡ 55'02	
behind sun begin	-5566 Dec 21 j 17:26	20°M33'37		minimum elong	-5559 Jan 03 j 22:08	3° ∡ 55'02	
behind sun end	-5566 Dec 22 j 06:22	20°M34'47		max. Earth dist.	-5559 Jan 05 j 00:58		30.92305 AU
max. Earth dist.	-5566 Dec 22 j 23:53		30.96623 AU	morning rise	-5559 Jan 19 j 18:53	4° ∡ ′30'41	
morning rise	-5565 Jan 06 j 17:34	21°M09'37		retrograde	-5559 Apr 21 j 10:28	6° ∡ 729'41	20.02020.444
retrograde	-5565 Apr 08 j 02:32	23°M08'16	20.06146.444	min. Earth dist.	-5559 Jul 10 j 02:47		28.92039 AU
min. Earth dist.	-5565 Jun 27 j 02:05		28.96146 AU	opposition	-5559 Jul 11 j 03:38	5° ₹ 04'21	-0°38′59
opposition	-5565 Jun 28 j 02:00	21°M43'02	-0°04'34	direct	-5559 Sep 26 j 16:48	3° √ 41'31	
direct	-5565 Sep 13 j 22:58	20°M20'13		evening set	-5559 Dec 21 j 17:12	5° ∡ ³33′50	
evening set	-5565 Dec 08 j 21:01	22°M12'19		. ,.	5550 I 06:10.22	(0. 7 00100	0020101
	5565 D - 04:11.16	220 m 47122	0000157	conjunction	-5558 Jan 06 j 10:23	6° ⋌ ¹09'08	
conjunction	-5565 Dec 24 j 11:16	22°M47'23		minimum elong	-5558 Jan 06 j 10:23	6° ₹ 09'08	
minimum elong	-5565 Dec 24 j 11:16		0°07'12	max. Earth dist.	-5558 Jan 07 j 11:58		30.91667 AU
behind sun begin	-5565 Dec 24 j 05:18	22°M46'50		morning rise	-5558 Jan 22 j 07:45	6° ₹ 44'49	
behind sun end	-5565 Dec 24 j 17:13	22°M47'55	20.05(20.AII	retrograde	-5558 Apr 24 j 01:37	8° × ⁷ 43'52	0944125
max. Earth dist.	-5565 Dec 25 j 12:00		30.95639 AU	opposition	-5558 Jul 13 j 15:55	7° ∡ 18'31	
morning rise	-5564 Jan 09 j 05:30	23°M22'49		min. Earth dist.	-5558 Jul 12 j 15:17		28.91364 AU
retrograde	-5564 Apr 09 j 14:04	25°M21'31	0010121	direct	-5558 Sep 29 j 03:57	5° х 55'40 7° х 48'02	
opposition	-5564 Jun 29 j 14:24 -5564 Jun 28 j 14:52	23°M56'14	28.95238 AU	evening set	-5558 Dec 24 j 05:00	/ X'46 02	
min. Earth dist. direct	-5564 Sep 15 j 08:46	23 IIL3/32 22°M33'24	28.93238 AU	conjunction	-5557 Jan 08 j 22:44	8° ₹ 23'22	0044112
evening set	-5564 Dec 10 j 07:55	24°M25'30		minimum elong	-5557 Jan 08 j 22:43	8° × 23'22	
evening set	-3304 Dec 10 j 07.33	24 IIG23 30		max. Earth dist.	-5557 Jan 10 j 00:59		30.90929 AU
conjunction	-5564 Dec 25 j 22:47	25°ML00'36	-0°12'20	morning rise	-5557 Jan 24 j 20:26	8° × 25'50'	30.70727 AC
minimum elong	-5564 Dec 25 j 22:47	25°M00'36	0°12'35	retrograde	-5557 Apr 26 j 13:31	10° ₹ 58'09	
behind sun begin	-5564 Dec 25 j 18:37	25°ML00'14	0 12 33	min. Earth dist.	-5557 Jul 15 j 04:10		28.90579 AU
behind sun end	-5564 Dec 26 j 02:57	25°ML00'59		opposition	-5557 Jul 16 j 04:12	9° × ⁷ 32'47	
max. Earth dist.	-5564 Dec 27 j 00:13		30.94806 AU	direct	-5557 Oct 01 j 15:50	8° ∡ 109'54	0 3007
morning rise	-5563 Jan 10 j 17:32	25°M36'05	30.9 1000 110	evening set	-5557 Dec 26 j 17:02	10° × 002'18	
retrograde	-5563 Apr 12 j 03:48	27°M34'50		evening sec	3337 Bee 20 j 17.02	10 % 02 10	
min. Earth dist.	-5563 Jul 01 j 01:38		28.94464 AU	conjunction	-5556 Jan 11 j 11:13	10° ∡ ³37'39	-0°49'21
opposition	-5563 Jul 02 j 02:39	26°ML09'31		minimum elong	-5556 Jan 11 j 11:13	10° ∡ ³37'39	
direct	-5563 Sep 17 j 19:16	24°M46'40		max. Earth dist.	-5556 Jan 12 j 12:43		30.90111 AU
evening set	-5563 Dec 12 j 19:06	26°M38'48		morning rise	-5556 Jan 27 j 09:28	11° ∡ 13'25	
Ü	J			retrograde	-5556 Apr 28 j 02:50	13° ∡ 12'30	
conjunction	-5563 Dec 28 j 10:19	27°M13'56	-0°17'44	opposition	-5556 Jul 17 j 16:15	11° ∡ ¹47'06	-0°55'34
minimum elong	-5563 Dec 28 j 10:19	27°M13'56	0°18'00	min. Earth dist.	-5556 Jul 16 j 15:52	11° × 748'47	28.89728 AU
max. Earth dist.	-5563 Dec 29 j 11:39	27° M .16'19	30.94080 AU	direct	-5556 Oct 03 j 02:54	10° ∡ 124′08	
morning rise	-5562 Jan 13 j 05:41	27° M 49'28		evening set	-5556 Dec 28 j 05:11	12° ∡ 16'34	
retrograde	-5562 Apr 14 j 16:58	29°M48'17		-	•		
opposition	-5562 Jul 04 j 14:57	28°M22'57	-0°21'53	conjunction	-5555 Jan 12 j 23:49	12° ∡ ¹51'57	-0°54'25
min. Earth dist.	-5562 Jul 03 j 14:38	28°M24'38	28.93797 AU	minimum elong	-5555 Jan 12 j 23:49	12° ∡ ¹51'57	0°54'44
direct	-5562 Sep 20 j 05:44	27°M00'06		max. Earth dist.	-5555 Jan 14 j 01:19	12° ∡ ¹54'22	30.89224 AU
evening set	-5562 Dec 15 j 06:14	28°M52'16		morning rise	-5555 Jan 28 j 22:32	13° ∡ ¹27'45	
				retrograde	-5555 Apr 30 j 14:31	15° ∡ ¹26'50	
conjunction	-5562 Dec 30 j 22:07	29°M27'26	-0°23'06	min. Earth dist.	-5555 Jul 19 j 05:03	14° ∡ °03′01	28.88838 AU
minimum elong	-5562 Dec 30 j 22:07	29°M27'26	0°23'22	opposition	-5555 Jul 20 j 04:21	14° ∡ °01′23	-1°00'57
max. Earth dist.	-5561 Jan 01 j 00:43	29°M29'57	30.93460 AU	direct	-5555 Oct 05 j 13:11	12° ∡ ³38′22	
	-5561 Jan 14 j 09:14	0° ₹		evening set	-5555 Dec 30 j 17:17	14° ∡ °30′50	
morning rise	-5561 Jan 15 j 17:51	0° ₹ 03'00					
retrograde	-5561 Apr 17 j 07:09	2° ₹ '01'53		conjunction	-5554 Jan 15 j 12:25	15° ∡ ¹06'14	-0°59'24
min. Earth dist.	-5561 Jul 06 j 01:49	0° ∡ ³38′18	28.93205 AU	minimum elong	-5554 Jan 15 j 12:25	15° ∡ ¹06'14	0°59'44
opposition	-5561 Jul 07 j 03:10	0° ∡ ³36'33	-0°27'38	max. Earth dist.	-5554 Jan 16 j 14:01	15° ∡ ′08'39	30.88342 AU
	-5561 Jul 29 j 20:18	30°RM		morning rise	-5554 Jan 31 j 11:29	15° ∡ ¹42'03	
direct	-5561 Sep 22 j 18:04	29°M13'42		retrograde	-5554 May 03 j 03:52	17° ∡ ¹41'08	
	-5561 Nov 14 j 09:22	0° ∡ ¹		opposition	-5554 Jul 22 j 16:09	16° ∡ 15'38	
evening set	-5561 Dec 17 j 17:40	1° ∡ 105′55		min. Earth dist.	-5554 Jul 21 j 15:53	16° ∡ 17'20	28.87981 AU

Planetary Pheno	omena of Neptune f	from -5900	through -5398	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 28
Attention, astronom	nical year style is used: Th	e year -5554	in astronomical co	ounting style is the year	r 5555 BCE in historical c	ounting style.	
direct	-5554 Oct 08 j 00:01	14° ₹ 52'33		minimum elong	-5547 Jan 31 j 07:11	0° る 47'43	1°31'45
evening set	-5553 Jan 02 j 05:35	16° ₹ ¹45'04		max. Earth dist.	-5547 Feb 01 i 08:01	0°る50'03	30.85024 AU
-	·			morning rise	-5547 Feb 16 j 08:56	1° る 23'41	
conjunction	-5553 Jan 18 j 01:01	17° ∡ ¹20'30	-1°04'18	retrograde	-5547 May 19 j 03:34	3° る 22'48	
minimum elong	-5553 Jan 18 j 01:00	17° ∡ ¹20'30		min. Earth dist.	-5547 Aug 06 j 03:22	1°る58'59	28.85025 AU
max. Earth dist.	-5553 Jan 19 j 02:09		30.87513 AU	opposition	-5547 Aug 07 j 02:20	1° る 57'23	
morning rise	-5553 Feb 03 j 00:35	17° ₹ 56'20	30.07813110	direct	-5547 Oct 23 j 08:27	0°る34'05	1 .001
retrograde	-5553 May 05 j 16:06	19° ₹ 55'25		evening set	-5546 Jan 17 j 22:25	2° る 27'11	
min. Earth dist.	-5553 Jul 24 j 04:49		28.87216 AU	evening sec	55 10 Jun 17 j 22:25	2 02/11	
opposition	-5553 Jul 25 j 04:06	18° ₹ 29'53		conjunction	-5546 Feb 02 j 20:43	3° る 02'49	-1°35'30
direct	-5553 Oct 10 j 10:43	18 ₹ 2933	-1 11 24	minimum elong	-5546 Feb 02 j 20:42	3°る02'49	
	3	17 x 00 43		max. Earth dist.	•		30.84789 AU
evening set	-5552 Jan 04 j 17:45	10 8.39 10			-5546 Feb 03 j 21:14	3°る38'48	30.84789 AU
	5552 I 20:12.47	100 72446	1000107	morning rise	-5546 Feb 18 j 22:42		
conjunction	-5552 Jan 20 j 13:47	19° ∡ 734'46		retrograde	-5546 May 21 j 16:22	5°る37'54	1044110
minimum elong	-5552 Jan 20 j 13:47	19° ∡ ³34'46		opposition	-5546 Aug 09 j 14:04	4°る12'30	
max. Earth dist.	-5552 Jan 21 j 15:54		30.86803 AU	min. Earth dist.	-5546 Aug 08 j 16:36		28.84767 AU
morning rise	-5552 Feb 05 j 13:38	20° ∡ 10'37		direct	-5546 Oct 25 j 19:10	2° ප් 49'11	
retrograde	-5552 May 07 j 05:33	22° ҂ 09'43		evening set	-5545 Jan 20 j 11:44	4° る 42'22	
opposition	-5552 Jul 26 j 15:51	20° х 44′10					
min. Earth dist.	-5552 Jul 25 j 15:42	20° ∡ ¹45'51	28.86568 AU	conjunction	-5545 Feb 05 j 10:28	5° る 18'01	-1°39'26
direct	-5552 Oct 11 j 22:56	19° ∡ ′20′58		minimum elong	-5545 Feb 05 j 10:27	5° る 18'01	1°39'46
evening set	-5551 Jan 06 j 06:18	21° х 13′36		max. Earth dist.	-5545 Feb 06 j 10:17	5° る 20'15	30.84492 AU
				morning rise	-5545 Feb 21 j 12:43	5° ರ 54'01	
conjunction	-5551 Jan 22 j 02:36	21° ₹ 49'05	-1°13'48	retrograde	-5545 May 24 j 05:56	7° る 53'06	
minimum elong	-5551 Jan 22 j 02:36	21° ₹ 49'05	1°14'06	min. Earth dist.	-5545 Aug 11 j 03:53	6° る 29'15	28.84423 AU
max. Earth dist.	-5551 Jan 23 j 03:43		30.86216 AU	opposition	-5545 Aug 12 j 01:40	6° る 27'43	
morning rise	-5551 Feb 07 j 03:00	22° ₹ 24'58		direct	-5545 Oct 28 j 06:46	5° る 04'20	
retrograde	-5551 May 09 j 19:18	24° ₹ 24'04		evening set	-5544 Jan 23 j 01:13	6° る 57'35	
min. Earth dist.	-5551 Jul 28 j 04:08		28.86064 AU	evening sec	55115an 25 j 01.15	0 03733	
opposition	-5551 Jul 29 j 03:34	22° x 58'31		conjunction	-5544 Feb 08 j 00:13	7° る 33'15	10/12/12
direct	3	21° x 35'16	-1 212/	minimum elong	-5544 Feb 08 j 00:13	7°る33'15	
	-5551 Oct 14 j 08:48			· ·	3		30.84086 AU
evening set	-5550 Jan 08 j 18:46	23° ₹ 27'59		max. Earth dist.	-5544 Feb 08 j 22:47		30.84086 AU
	5550 X 04:15.00	240 30000	1010100	morning rise	-5544 Feb 24 j 02:52	8°署09'16	
conjunction	-5550 Jan 24 j 15:38	24° × 03'30		retrograde	-5544 May 25 j 17:31	10° ろ 08'18	
minimum elong	-5550 Jan 24 j 15:37	24° ₹ 03'30		opposition	-5544 Aug 13 j 13:24	8° ろ 42'55	
max. Earth dist.	-5550 Jan 25 j 17:49		30.85770 AU	min. Earth dist.	-5544 Aug 12 j 17:20		28.83976 AU
morning rise	-5550 Feb 09 j 16:13	24° ₹ 39'24		direct	-5544 Oct 29 j 17:32	7° る 19'27	
retrograde	-5550 May 12 j 09:00	26° ₹ 38'30		evening set	-5543 Jan 24 j 14:42	9° る 12'46	
opposition	-5550 Jul 31 j 15:17	25° ҂ 12'58	-1°26'17				
min. Earth dist.	-5550 Jul 30 j 15:29	25° ҂ 14'38	28.85684 AU	conjunction	-5543 Feb 09 j 14:13	9° る 48'27	-1°46'51
direct	-5550 Oct 16 j 21:35	23° х ⁴49'43		minimum elong	-5543 Feb 09 j 14:12	9° る 48'27	1°47'10
evening set	-5549 Jan 11 j 07:20	25° х 42'31		max. Earth dist.	-5543 Feb 10 j 12:48	9° る 50'35	30.83597 AU
				morning rise	-5543 Feb 25 j 17:00	10° る 24'28	
conjunction	-5549 Jan 27 j 04:27	26° ₰ 18'04	-1°22'51	retrograde	-5543 May 28 j 06:20	12° る 23'26	
minimum elong	-5549 Jan 27 j 04:27	26° х 18′04	1°23'10	min. Earth dist.	-5543 Aug 15 j 04:33	10° る 59'27	28.83455 AU
max. Earth dist.	-5549 Jan 28 j 05:34		30.85452 AU	opposition	-5543 Aug 16 j 00:44	10°る58'02	
morning rise	-5549 Feb 12 j 05:34	26° ₹ 53'59		direct	-5543 Nov 01 j 05:42	9° ට 34'28	
retrograde	-5549 May 15 j 00:39	28° 🖈 53'06		evening set	-5542 Jan 27 j 04:19	11°る27'52	
min. Earth dist.	-5549 Aug 02 j 03:24		28.85424 AU		_,,,,		
opposition	-5549 Aug 03 j 03:03	27° ₹ 27'35		conjunction	-5542 Feb 12 j 04:00	12° る 03'34	-1°50'19
direct	-5549 Oct 19 j 09:15	26° ₹ 04'19		minimum elong	-5542 Feb 12 j 04:00	12°る03'34	
	-5548 Jan 13 j 20:09	27° 🗷 57'13		max. Earth dist.	-5542 Feb 13 j 01:00		30.83058 AU
evening set	-5546 Jan 15 j 20.09	2/ X 3/13					30.83038 AU
	5540 I 20 17 40	200.722140	1007110	morning rise	-5542 Feb 28 j 07:12	12° る 39'35	
conjunction	-5548 Jan 29 j 17:46	28° 🗷 32'48		retrograde	-5542 May 30 j 19:22	14°る38'29	1050140
minimum elong	-5548 Jan 29 j 17:45	28° 🗷 32'48		opposition	-5542 Aug 18 j 12:13	13° ろ 13'03	
max. Earth dist.	-5548 Jan 30 j 19:37		30.85217 AU	min. Earth dist.	-5542 Aug 17 j 17:17		28.82930 AU
morning rise	-5548 Feb 14 j 19:06	29° ∡ 08'45		direct	-5542 Nov 03 j 15:59	11° る 49'23	
	-5548 Mar 10 j 17:38	0°る		evening set	-5541 Jan 29 j 17:38	13° る 42'51	
retrograde	-5548 May 16 j 12:46	1° る 07'52					
	-5548 Jul 25 j 02:14	30°₽ ✓		conjunction	-5541 Feb 14 j 17:50	14° る 18'34	-1°53'37
opposition	-5548 Aug 04 j 14:40	29° х 42′24	-1°35'35	minimum elong	-5541 Feb 14 j 17:50	14° る 18'34	1°53'56
min. Earth dist.	-5548 Aug 03 j 15:47	29° ∡ ⁴44′00	28.85218 AU	max. Earth dist.	-5541 Feb 15 j 15:26	14° る 20'35	30.82540 AU
direct	-5548 Oct 20 j 21:02	28° ∡ 19'07		morning rise	-5541 Mar 02 j 21:07	14° る 54'35	
	-5547 Jan 09 j 19:19	8°0		retrograde	-5541 Jun 02 j 08:02	16° る 53'24	
evening set	-5547 Jan 15 j 09:14	0° る 12'07		opposition	-5541 Aug 20 j 23:31	15° る 27'57	-2°03'14
Č	,			min. Earth dist.	-5541 Aug 20 j 04:40		28.82440 AU
conjunction	-5547 Jan 31 j 07:12	0° る 47'43	-1°31'25	direct	-5541 Nov 06 j 05:19	14° る 04'12	
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Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5540 in astronomical counting style is the year 5541 BCE in historical counting style. -5540 Feb 01 j 07:21 15°**る**57'44 max. Earth dist. -5534 Mar 03 i 14:27 0°≈05'24 30.81901 AU evening set -5534 Mar 19 j 01:35 0°≈39'50 morning rise -5540 Feb 17 j 07:45 16°**ප**33'28 -1°56'44 -5534 Jun 18 j 05:11 2°≈38'13 retrograde conjunction -5540 Feb 17 j 07:45 16°る33'28 1°57'03 1°≈13'06 -2°21'42 -5534 Sep 05 j 05:17 minimum elong opposition 1°≈14'11 28.82153 AU -5540 Feb 18 j 03:45 -5534 Sep 04 j 14:02 max. Earth dist. 16°る35'20 30.82091 AU min. Earth dist. -5540 Mar 04 j 11:26 -5534 Oct 27 j 04:52 morning rise 17°**る**09'30 30°Rる -5540 Jun 03 j 22:31 -5534 Nov 21 j 13:36 29°る49'05 retrograde 19°**る**08'14 direct opposition -5540 Aug 22 j 10:41 17°る42'47 -2°06'28 -5534 Dec 16 j 17:51 0°≈ min. Earth dist. -5540 Aug 21 j 16:18 17°る44'05 28.82054 AU evening set -5533 Feb 17 j 08:48 1°≈43'25 direct -5540 Nov 07 j 17:08 16°**ප**18'56 evening set -5539 Feb 02 j 21:01 18°**る**12'34 conjunction -5533 Mar 05 j 11:18 2°≈19'16 -2°13'21 -5533 Mar 05 j 11:17 minimum elong 2°≈19'16 2°13'38 18°る48'19 -1°59'40 -5533 Mar 06 j 02:56 conjunction -5539 Feb 18 j 21:51 max. Earth dist. 2°≈20'44 30.82051 AU minimum elong -5539 Feb 18 j 21:51 18°る48'19 1°59'59 morning rise -5533 Mar 21 j 16:17 2°≈55'22 max. Earth dist. -5539 Feb 19 j 18:23 18°る50'15 30.81748 AU retrograde -5533 Jun 20 j 17:36 4°≈53'41 morning rise -5539 Mar 07 j 01:37 19°る24'22 opposition -5533 Sep 07 j 16:28 3°≈28'38 -2°23'30 retrograde -5539 Jun 06 j 10:36 21°る23'01 min. Earth dist. -5533 Sep 07 j 02:54 3°≈29'36 28.82281 AU opposition -5539 Aug 24 j 21:54 19°る57'35 -2°09'31 -5533 Nov 23 j 23:37 2°≈04'33 min. Earth dist. -5539 Aug 24 j 04:14 19°る58'50 28.81781 AU evening set -5532 Feb 19 j 23:08 3°≈59'00 direct -5539 Nov 10 j 05:16 18°る33'41 evening set -5538 Feb 05 j 10:41 20°る27'25 conjunction -5532 Mar 07 j 02:06 4°≈34'53 -2°14'56 minimum elong -5532 Mar 07 i 02:06 4°≈34'53 2°15'12 conjunction -5538 Feb 21 i 11:44 21°る03'11 -2°02'26 max. Earth dist. -5532 Mar 07 i 17:37 4°≈36'20 30.82131 AU minimum elong -5538 Feb 21 i 11:44 21°る03'11 2°02'45 morning rise -5532 Mar 23 i 07:05 5°≈10'58 max. Earth dist. -5538 Feb 22 i 07:10 21°る05'00 30.81548 AU retrograde -5532 Jun 22 j 05:37 7°≈09'11 -5538 Mar 09 j 15:47 21°**る**39'13 -5532 Sep 09 j 03:24 5°≈44'10 -2°25'04 morning rise opposition -5538 Jun 09 j 01:32 23°**る**37'50 -5532 Sep 08 j 14:29 5°≈45'06 28.82314 AU retrograde min. Earth dist. opposition -5538 Aug 27 j 09:02 22°る12'25 -2°12'22 -5532 Nov 25 j 13:00 4°≈20'02 direct -5531 Feb 21 j 13:39 6°≈14'35 min. Earth dist. -5538 Aug 26 j 15:07 22°る13'41 28.81659 AU evening set -5538 Nov 12 j 17:16 20°る48'29 direct 22°る42'19 -5537 Feb 08 j 00:27 -5531 Mar 09 j 16:45 6°≈50'28 -2°16'18 conjunction evening set -5531 Mar 09 j 16:45 minimum elong 6°≈50'28 2°16'35 -5537 Feb 24 j 01:51 23°る18'06 -2°05'00 -5531 Mar 10 j 05:54 max. Earth dist. 6°≈51'41 30.82129 AU conjunction -5537 Feb 24 j 01:50 23°**る**18'06 2°05'19 -5531 Mar 25 j 22:02 minimum elong morning rise 7°≈26'32 -5537 Feb 24 j 21:17 23°る19'55 30.81486 AU -5531 Jun 24 j 19:21 max. Earth dist. retrograde 9°≈24'39 7°≈59'40 -2°26'26 -5537 Mar 12 j 06:03 23°₹54'09 -5531 Sep 11 j 14:25 morning rise opposition -5537 Jun 11 j 14:20 25°₹52'42 -5531 Sep 11 j 02:29 retrograde min. Earth dist. 8°≈00'30 28.82286 AU opposition -5537 Aug 29 j 20:10 24°る27'21 -2°15'01 direct -5531 Nov 28 j 00:56 6°≈35'25 min. Earth dist. -5537 Aug 29 j 03:35 24°る28'32 28.81673 AU evening set -5530 Feb 24 j 03:51 8°≈30'03 direct -5537 Nov 15 j 04:16 23°る03'23 -5536 Feb 10 j 14:18 24°る57'20 conjunction -5530 Mar 12 j 07:20 9°≈05'57 -2°17'28 evening set -5530 Mar 12 j 07:20 9°≈05'57 2°17'44 minimum elong -5536 Feb 26 j 16:05 25°る33'09 -2°07'23 max. Earth dist. -5530 Mar 12 j 20:33 9°≈07'11 30.82070 AU conjunction -5536 Feb 26 j 16:05 25°**ට**33'09 2°07'42 -5530 Mar 28 j 12:35 9°≈42'01 minimum elong morning rise -5536 Feb 27 j 10:51 25°る34'54 30.81565 AU -5530 Jun 27 j 07:08 11°**≈**40'00 max. Earth dist. retrograde 26°**ප**09'13 morning rise -5536 Mar 13 j 20:30 opposition -5530 Sep 14 i 01:21 10°≈15'01 -2°27'34 retrograde -5536 Jun 13 i 04:00 28°**る**07'43 min. Earth dist. -5530 Sep 13 j 14:36 10°≈15'47 28.82215 AU opposition -5536 Aug 31 i 07:12 26°**ප්**42'26 -2°17'27 direct -5530 Nov 30 i 13:13 8°≈50'41 min. Earth dist. -5536 Aug 30 j 14:12 26°る43'38 28.81796 AU evening set -5529 Feb 26 j 18:14 10°≈45'23 direct -5536 Nov 16 i 16:03 25°**ප**18'27 -5535 Feb 12 j 04:27 27°る12'32 -5529 Mar 14 i 21:54 11°≈21'17 -2°18'26 evening set conjunction -5529 Mar 14 i 21:54 11°≈21'17 2°18'42 minimum elong max. Earth dist. -5535 Feb 28 i 06:24 27°₹48'21 -2°09'34 -5529 Mar 15 j 09:21 11°≈22'21 30.82014 AU conjunction minimum elong -5535 Feb 28 i 06:24 27°る48'21 2°09'53 morning rise -5529 Mar 31 j 03:25 11°≈57'21 max. Earth dist. -5535 Mar 01 j 00:07 27°る50'01 30.81713 AU retrograde -5529 Jun 29 j 21:48 13°≈55'11 -5535 Mar 16 j 11:02 28°る24'26 opposition -5529 Sep 16 j 12:02 12°≈30'12 -2°28'29 morning rise -5535 May 09 j 03:32 0°≈ min. Earth dist. -5529 Sep 16 j 01:32 12°≈30'57 28.82178 AU -5535 Jun 15 j 15:44 0°≈22'53 -5529 Dec 03 j 02:32 11°≈05'46 retrograde direct -5535 Jul 23 j 14:18 30°R₹ -5528 Feb 29 j 08:35 evening set 13°≈00'32 -5535 Sep 02 j 18:17 28°る57'41 -2°19'41 opposition 28°る58'46 28.81976 AU -5528 Mar 16 j 12:35 min. Earth dist. -5535 Sep 02 j 03:01 conjunction 13°≈36'27 -2°19'11 direct -5535 Nov 19 j 02:15 27°る33'41 minimum elong -5528 Mar 16 j 12:35 13°≈36'27 2°19'26 evening set -5534 Feb 14 j 18:33 29°る27'54 max. Earth dist. -5528 Mar 16 j 23:47 13°≈37'30 30.81995 AU -5534 Mar 01 j 04:53 0°≈ morning rise -5528 Apr 01 j 18:08 14°≈12'31 -5528 Apr 24 j 20:37 15°≈ -5534 Mar 02 j 20:55 0°≈03'45 -2°11'34 -5528 Jul 01 j 09:36 16°≈10'12 conjunction retrograde

-5534 Mar 02 j 20:55

minimum elong

0°≈03'45 2°11'51

-5528 Sep 09 j 06:30

15°R≈

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5528 in astronomical counting style is the year 5529 BCE in historical counting style. -5528 Sep 17 j 22:51 14°≈45'14 -2°29'10 minimum elong -5521 Apr 02 j 18:49 29°≈20'40 2°18'37 opposition min. Earth dist. 14°**≈**45'52 28.82203 AU -5528 Sep 17 j 13:56 max. Earth dist. -5521 Apr 03 j 00:28 29°≈21'12 30.85280 AU -5528 Dec 04 j 15:01 13°≈20'43 -5521 Apr 19 j 00:50 29°≈56'43 direct morning rise -5521 Apr 20 j 13:08 0°**)**€ -5527 Feb 23 j 17:15 15°≈ -5521 Jul 17 j 23:10 -5527 Mar 02 j 22:53 evening set 15°≈15'32 retrograde 1°**X**53'31 0°**¥**29'03 -2°27'32 opposition -5521 Oct 04 j 00:58 conjunction -5527 Mar 19 j 03:07 15°≈51'27 -2°19'43 min. Earth dist. -5521 Oct 03 j 21:08 0° **€**29'20 28.85802 AU minimum elong -5527 Mar 19 j 03:07 15°≈51'27 2°19'58 -5521 Oct 21 j 08:52 30°R≈ 15°≈52'24 30.82077 AU 29°≈04'17 max. Earth dist. -5527 Mar 19 j 13:18 direct -5521 Dec 20 j 23:52 morning rise -5527 Apr 04 j 08:48 16°≈27'31 -5520 Feb 18 j 03:47 0°**)**€ retrograde -5527 Jul 03 j 22:56 18°≈25'03 evening set -5520 Mar 19 j 03:56 0°**)** 59'48 opposition -5527 Sep 20 j 09:23 17°≈00'06 -2°29'37 -5520 Apr 04 j 09:39 min. Earth dist. -5527 Sep 20 j 00:06 17°≈00'46 28.82345 AU conjunction 1°**¥**35'47 -2°17'28 direct -5527 Dec 07 j 03:52 15°≈35'30 minimum elong -5520 Apr 04 j 09:40 1°**¥**35'47 2°17'38 evening set -5526 Mar 05 j 13:13 17°≈30'24 max. Earth dist. -5520 Apr 04 j 13:00 1°**¥**36′05 30.85963 AU morning rise -5520 Apr 20 j 15:52 2° # 11'49 conjunction -5526 Mar 21 j 17:37 18°≈06'20 -2°20'02 retrograde -5520 Jul 19 j 13:22 4° **)** 68'29 minimum elong -5526 Mar 21 j 17:37 18°≈06'20 2°20'16 opposition -5520 Oct 05 j 11:35 2°**)**(44'06 -2°26'24 max. Earth dist. -5526 Mar 22 j 02:55 18°≈07'12 30.82283 AU min. Earth dist. -5520 Oct 05 j 08:17 2°**)**44'20 28.86444 AU morning rise -5526 Apr 06 j 23:23 18°≈42'23 direct -5520 Dec 22 j 13:10 1°**H**19'18 retrograde -5526 Jul 06 j 10:52 20°≈39'47 evening set -5519 Mar 21 j 18:32 3°**)** 14'54 opposition -5526 Sep 22 i 20:07 19°≈14'52 -2°29'51 min. Earth dist. -5526 Sep 22 j 12:18 19°≈15'25 28.82637 AU conjunction -5519 Apr 07 i 00:31 3°\f50'54 -2°16'18 direct -5526 Dec 09 i 14:33 17°≈50'13 minimum elong -5519 Apr 07 i 00:31 3°\f50'54 2°16'28 evening set -5525 Mar 08 j 03:20 19°≈45'11 max. Earth dist. -5519 Apr 07 j 03:16 3°¥51'09 30.86553 AU -5519 Apr 23 j 06:36 4° # 26'55 morning rise -5525 Mar 24 j 08:07 20°≈21'07 -2°20'09 -5519 Jul 22 j 00:44 6°¥23'27 conjunction retrograde -5525 Mar 24 j 08:07 -5519 Oct 07 j 22:16 4°**¥**59'08 -2°25'02 20°\21'07 2°20'23 opposition minimum elong -5525 Mar 24 j 17:17 -5519 Oct 07 j 20:56 4°**升**59'14 28.86991 AU max. Earth dist. 20°≈21'58 30.82660 AU min. Earth dist. -5525 Apr 09 j 13:56 -5519 Dec 25 j 01:50 3°**)** 34'17 morning rise 20°≈57'10 direct -5525 Jul 08 j 23:56 -5518 Mar 24 j 09:08 5°\ 29'57 22°≈54'26 retrograde evening set -5525 Sep 25 j 06:39 21°≈29'35 -2°29'51 opposition min. Earth dist. -5518 Apr 09 j 15:16 6°\cdot\05'57 -2°14'55 -5525 Sep 24 j 22:36 21°≈30'09 28.83081 AU conjunction -5525 Dec 12 j 02:34 -5518 Apr 09 j 15:16 6°¥05'57 2°15'04 direct 20°≈04'53 minimum elong -5524 Mar 09 j 17:49 -5518 Apr 09 j 16:19 6°**₭**06'03 30.87079 AU evening set 21°≈59'57 max. Earth dist. -5518 Apr 25 j 21:27 6°**)**41'58 morning rise -5524 Mar 25 j 22:41 -5518 Jul 24 j 14:20 8°\;\;38'20 conjunction 22°≈35'54 -2°20'02 retrograde minimum elong -5524 Mar 25 j 22:41 22°≈35'54 2°20'15 opposition -5518 Oct 10 j 08:42 7°**升**14'05 -2°23'27 max. Earth dist. -5524 Mar 26 j 06:18 22°≈36'36 30.83178 AU min. Earth dist. -5518 Oct 10 j 07:26 7°**升**14'10 28.87481 AU morning rise -5524 Apr 11 j 04:42 23°≈11'57 direct -5518 Dec 27 j 15:11 5°**)**49'10 retrograde -5524 Jul 10 j 11:08 25°≈09'05 -5517 Mar 26 j 23:37 7° **)** 44'54 evening set -5524 Sep 26 j 17:13 23°≈44'19 -2°29'37 opposition min. Earth dist. -5524 Sep 26 j 10:33 23°≈44'48 28.83673 AU -5517 Apr 12 j 05:56 8°\;\;20'54 -2°13'20 conjunction -5524 Dec 13 j 12:42 22°≈19'36 -5517 Apr 12 j 05:57 8°\(\frac{1}{2}\)20'54 2°13'30 direct minimum elong -5523 Mar 12 j 08:12 -5517 Apr 12 j 05:48 8°¥20'53 30.87548 AU evening set 24°≈14'46 max. Earth dist. morning rise -5517 Apr 28 i 12:08 8° ¥ 56'54 conjunction -5523 Mar 28 j 13:27 24°≈50'43 -2°19'43 retrograde -5517 Jul 27 i 02:26 10°**¥**53′06 minimum elong -5523 Mar 28 i 13:27 24°≈50'43 2°19'56 opposition -5517 Oct 12 j 19:16 9°\ 28'53 -2°21'39 max. Earth dist. -5523 Mar 28 j 21:17 24°≈51'27 30.83829 AU min. Earth dist. -5517 Oct 12 j 19:57 9° **★**28'50 28.87941 AU -5523 Apr 13 i 19:22 25°≈26'46 direct -5517 Dec 30 j 02:49 8° ¥ 03'55 morning rise -5523 Jul 12 j 22:30 27°≈23'47 -5516 Mar 28 j 14:06 9° **¥** 59'41 retrograde evening set -5523 Sep 29 j 03:48 25°≈59'08 -2°29'09 opposition 25°≈59'34 28.84358 AU -5523 Sep 28 j 21:35 conjunction -5516 Apr 13 j 20:39 10°¥35'42 -2°11'34 min. Earth dist. direct -5523 Dec 16 j 01:08 24°≈34'24 minimum elong -5516 Apr 13 j 20:40 10°**)** ₹35'42 2°11'41 evening set -5522 Mar 14 j 22:38 26°≈29'41 max. Earth dist. -5516 Apr 13 j 19:45 10° **★**35'37 30.88020 AU morning rise -5516 Apr 30 j 02:49 11°**)** 11'42 -5516 Jul 28 j 15:08 conjunction -5522 Mar 31 j 03:55 27°≈05'39 -2°19'11 retrograde 13°**)**€07'42 -5522 Mar 31 j 03:55 -5516 Oct 14 j 05:33 11°**)**(43'33 -2°19'39 minimum elong 27°≈05'39 2°19'22 opposition -5522 Mar 31 j 09:39 -5516 Oct 14 j 06:20 11°**)**43'29 28.88414 AU max. Earth dist. 27°≈06'11 30.84551 AU min. Earth dist. -5516 Dec 31 j 15:43 10°**¥**18'31 morning rise -5522 Apr 16 j 10:03 27°≈41'41 direct -5515 Mar 31 j 04:36 12°**)** 14'20 retrograde -5522 Jul 15 j 11:39 29°≈38'36 evening set opposition -5522 Oct 01 j 14:25 28°≈14'03 -2°28'27 min. Earth dist. -5522 Oct 01 j 09:05 28°≈14'26 28.85097 AU conjunction -5515 Apr 16 j 11:10 12°**¥**50′20 -2°09′35 direct -5522 Dec 18 j 11:58 26°≈49'18 minimum elong -5515 Apr 16 j 11:10 12° **★** 50'21 2°09'43 evening set -5521 Mar 17 j 13:10 28°≈44'42 max. Earth dist. -5515 Apr 16 j 08:41 12°**₭**50'07 30.88523 AU -5515 May 02 j 17:23 13°**¥**26′20 morning rise -5521 Apr 02 j 18:49 29°≈20'40 -2°18'26 -5515 Jul 31 j 01:33 15°**¥**22'10 conjunction retrograde

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5515 in astronomical counting style is the year 5516 BCE in historical counting style. -5515 Oct 16 j 16:02 13°**¥**58′03 -2°17′26 max. Earth dist. -5508 May 02 i 07:05 28° ¥ 30'00 30.94891 AU opposition -5515 Oct 16 j 18:12 13°**)** €57'54 28.88963 AU -5508 May 18 j 21:08 29°\ 06'41 min. Earth dist. morning rise -5514 Jan 03 j 02:35 12°\ 32'57 -5508 Jun 14 j 06:55 $0^{\circ}\Upsilon$ direct -5514 Apr 02 j 18:41 14°**)** 28'49 -5508 Aug 15 j 10:38 1°Y01'29 evening set retrograde -5508 Oct 18 j 14:08 30°**₹**₩ -5514 Apr 19 j 01:31 15°**)** 04′50 -2°07′26 -5508 Oct 31 j 16:31 29°\ 37'58 -1°56'20 conjunction opposition 29°**)** 37'24 28.95498 AU -5514 Apr 19 j 01:32 minimum elong 15°**)** €04'50 2°07'31 min. Earth dist. -5508 Nov 01 j 00:37 -5507 Jan 18 j 15:35 -5514 Apr 18 j 23:15 max. Earth dist. 15°**₭**04'37 30.89124 AU direct 28°**)** 12'47 -5514 May 05 j 07:36 0° morning rise 15°**)** 40′48 -5507 Apr 14 j 17:12 0°Y09'05 retrograde -5514 Aug 02 j 12:02 17°**)** € 36′28 evening set -5507 Apr 18 j 22:36 16°**升**12'25 -2°15'01 opposition -5514 Oct 19 j 02:23 -5514 Oct 19 j 04:54 -5507 May 05 j 05:51 0°Y45'06 -1°47'04 min. Earth dist. 16° **€** 12'14 28.89609 AU conjunction -5507 May 05 j 05:52 direct -5513 Jan 05 j 15:07 14°**)** 47'16 minimum elong 0°**Υ**45'06 1°47'05 evening set -5513 Apr 05 j 09:03 16°**)**43'11 max. Earth dist. -5507 May 04 j 20:19 0°**Υ**44'13 30.95852 AU morning rise -5507 May 21 j 11:20 1°Y20'59 conjunction -5513 Apr 21 j 15:51 17° **₩** 19'12 -2°05'04 retrograde -5507 Aug 17 j 23:01 3°Y15'37 minimum elong -5513 Apr 21 j 15:52 17° **₭**19'12 2°05'10 opposition -5507 Nov 03 j 02:58 1°Y52'11 -1°52'34 max. Earth dist. -5513 Apr 21 j 11:40 17°**升**18'49 30.89842 AU min. Earth dist. -5507 Nov 03 j 11:19 1°Υ51'36 28.96391 AU morning rise -5513 May 07 j 22:03 17°**¥**55′10 direct -5506 Jan 21 j 05:35 0°Y26'58 retrograde -5513 Aug 05 j 00:06 19°**¥**50'40 evening set -5506 Apr 21 j 12:46 2°Y23'18 opposition -5513 Oct 21 j 12:38 18°\\26'41 -2°12'23 min. Earth dist. -5513 Oct 21 i 15:46 18°**)** €26'27 28.90398 AU conjunction -5506 May 07 i 19:55 2°Y59'19 -1°43'28 direct -5512 Jan 08 i 01:21 17°\01'30 minimum elong -5506 May 07 j 19:55 2°Y59'19 1°43'28 evening set -5512 Apr 06 j 23:17 18°**¥**57'28 max. Earth dist. -5506 May 07 i 08:36 2°Υ58'16 30.96695 AU morning rise -5506 May 24 j 01:18 3°Y35'10 -5512 Apr 23 j 06:22 19°\ 33'29 -2°02'31 -5506 Aug 20 j 09:54 5°Y29'38 conjunction retrograde -5512 Apr 23 j 06:22 19°**¥**33'30 2°02'36 opposition -5506 Nov 05 j 13:29 4°Υ06'16 -1°48'39 minimum elong -5512 Apr 23 j 02:27 19°**)** 33'08 30.90699 AU -5506 Nov 05 j 23:31 4°Υ05'33 28.97187 AU max. Earth dist. min. Earth dist. -5512 May 09 j 12:19 20°**)**€09'27 -5505 Jan 23 j 16:58 2°Y41'00 morning rise direct 4°Υ37'21 -5512 Aug 06 j 10:02 22°**)** 04'48 -5505 Apr 24 j 02:52 retrograde evening set 20°**)** 40′54 -2°09′34 -5512 Oct 22 j 23:03 opposition -5512 Oct 23 j 03:12 20°**)** 40'36 28.91309 AU -5505 May 10 j 10:09 5°Υ13'21 -1°39'44 min. Earth dist. conjunction -5505 May 10 j 10:10 5°Υ13'21 1°39'44 -5511 Jan 09 j 13:10 19°**∺** 15'43 direct minimum elong -5505 May 09 j 22:32 -5511 Apr 09 j 13:32 21°**)** 11'45 5°**Y**12'16 30.97451 AU evening set max. Earth dist. -5505 May 26 j 15:17 5°**Y**49'11 morning rise -5511 Apr 25 j 20:31 21°\(\dagger47'46\) -1°59'47 -5505 Aug 22 j 20:33 7°**Y**43′28 conjunction retrograde -5505 Nov 07 j 23:45 6°**Y**20'08 -1°44'35 minimum elong -5511 Apr 25 j 20:32 21°**)**47'46 1°59'52 opposition max. Earth dist. -5511 Apr 25 j 14:48 21°**)**47'14 30.91684 AU min. Earth dist. -5505 Nov 08 j 10:34 6°Υ19'22 28.97888 AU morning rise -5511 May 12 j 02:33 22°**)** 23'43 direct -5504 Jan 26 j 06:11 4°Υ54'49 retrograde -5511 Aug 08 j 22:37 24°**升**18'55 evening set -5504 Apr 25 j 17:05 6°Y51'11 -5511 Oct 25 j 09:21 22°\\$55'08 -2°06'32 max. Earth dist. -5504 May 11 j 10:23 7°**Υ**25'54 30.98137 AU opposition -5511 Oct 25 j 13:34 22°**升**54'49 28.92339 AU min. Earth dist. -5510 Jan 12 j 02:05 21°**¥**29′56 -5504 May 12 j 00:09 7°Y27'10 -1°35'51 direct conjunction -5510 Apr 12 j 03:42 23°**)** €26'03 -5504 May 12 j 00:10 7°**Y**27'10 1°35'50 evening set minimum elong -5504 May 28 j 05:13 8°Y03'00 morning rise 24°\(\frac{1}{2}\)02'04 -1°56'52 -5504 Aug 24 i 07:54 9°Y57'05 conjunction -5510 Apr 28 i 10:52 retrograde 8°Y33'48 -1°40'21 minimum elong -5510 Apr 28 i 10:53 24° **H** 02'04 1°56'55 opposition -5504 Nov 09 i 10:08 8°**Υ**32'59 28.98560 AU max. Earth dist. -5510 Apr 28 i 05:09 24°**₭**01'32 30.92751 AU min. Earth dist. -5504 Nov 09 j 21:43 7°**Υ**'08'25 morning rise -5510 May 14 i 16:40 24°**)** 38'00 direct -5503 Jan 27 i 17:04 evening set -5510 Aug 11 i 09:16 26°₩33'05 -5503 Apr 28 j 06:50 9°Y04'47 retrograde -5510 Oct 27 j 19:42 25°\(\mathbf{H}\) 09'23 -2°03'19 opposition min. Earth dist. -5510 Oct 28 j 01:44 25°\mathbf{H}08'58 28.93424 AU -5503 May 14 j 13:59 9°Υ40'45 -1°31'50 conjunction 23°**)**(44'12 -5503 May 14 j 13:59 9°**Υ**40'45 1°31'49 direct -5509 Jan 14 j 13:56 minimum elong 9°**Υ**39'30 30.98806 AU evening set -5509 Apr 14 j 17:57 25°**)** 40'24 max. Earth dist. -5503 May 14 j 00:27 10°**Y**16'33 morning rise -5503 May 30 j 18:40 12°**Y**10′29 26°**)** 16'25 -1°53'46 conjunction -5509 May 01 j 01:08 retrograde -5503 Aug 26 j 16:41 26°**¥**16′25 1°53′49 minimum elong -5509 May 01 j 01:08 opposition -5503 Nov 11 j 20:30 10°Y47'14 -1°35'59 -5509 Apr 30 j 17:47 26°**₭**15'44 30.93852 AU min. Earth dist. -5503 Nov 12 j 09:14 10°**Y**46'20 28.99230 AU max. Earth dist. -5509 May 17 j 06:58 26°**¥**52′20 -5502 Jan 30 j 05:34 9°Y21'48 morning rise direct -5509 Aug 13 j 22:38 28°**)**47'16 -5502 Apr 30 j 20:40 11°Y18'10 retrograde evening set opposition -5509 Oct 30 j 06:01 27°**H**23'41 -1°59'55 min. Earth dist. -5509 Oct 30 j 12:06 27°**₭**23'15 28.94498 AU conjunction -5502 May 17 j 03:34 11°**Y**54′07 -1°27′41 direct -5508 Jan 17 j 03:15 25°**X**58'30 minimum elong -5502 May 17 j 03:35 11°**Y**54'08 1°27'38 evening set -5508 Apr 16 j 08:20 27°**)** 54'46 max. Earth dist. -5502 May 16 j 12:13 11°Υ52'42 30.99513 AU morning rise -5502 Jun 02 j 08:13 12°**Y**29′54 -5508 May 02 j 15:31 28°\ 30'47 -1°50'30 -5502 Aug 29 j 03:56 14° Y 23'39 conjunction retrograde -5508 May 02 j 15:32 28°**¥**30'47 1°50'31 -5502 Nov 14 j 06:38 13°**Y**00'27 -1°31'29 minimum elong opposition

Dlan atomy Dhan	omana of Nantuna (5000 tl	hmanah <i>52</i> 00	(LIT) A atmodian	ot AC 19 Eak 2025	14.22	22
•	omena of Neptune f ical year style is used: Th		-				page 32
min. Earth dist.	-5502 Nov 14 j 19:20	12° Υ 59'33 2		morning rise	-5495 Jun 18 j 03:11	28° \bullet 01'08	
direct	-5501 Feb 01 j 17:52	11° Υ 34'58	20. <i>))))</i> 2 AO	retrograde	-5495 Sep 13 j 10:02	29° Υ 54'05	
evening set	-5501 May 03 j 10:17	13° Υ 31'21		opposition	-5495 Nov 29 j 07:13	28° Υ 31'29	-0°56'34
e vennig see	2001 may 03 j 10.17	15 , 51 21		min. Earth dist.	-5495 Nov 30 j 00:31		29.07477 AU
conjunction	-5501 May 19 j 17:14	14° Ƴ 07'18 -	1°23'24	direct	-5494 Feb 17 j 07:58	27°Υ06'06	_,,,,,,,,,
minimum elong	-5501 May 19 j 17:14	14° Ƴ 07'18		evening set	-5494 May 19 j 08:26	29° Y ′02'45	
max. Earth dist.	-5501 May 19 j 02:10	14° Y ′05'54 3	31.00297 AU	Č	, ,		
morning rise	-5501 Jun 04 j 21:29	14° Ƴ 43'03		conjunction	-5494 Jun 04 j 13:51	29° Y 38'36	-0°50'24
retrograde	-5501 Aug 31 j 13:29	16° Ƴ 36'40		minimum elong	-5494 Jun 04 j 13:52	29° Y 38'36	0°50'15
opposition	-5501 Nov 16 j 17:01	15° Y 13'30 -	1°26'50	max. Earth dist.	-5494 Jun 03 j 18:06	29° Y 36'46	31.07929 AU
min. Earth dist.	-5501 Nov 17 j 07:10	15° Y 12'30 2	29.00805 AU		-5494 Jun 14 j 04:43	9° 8	
direct	-5500 Feb 04 j 05:27	13° Ƴ 47'59		morning rise	-5494 Jun 20 j 15:47	0° 8 14'10	
evening set	-5500 May 04 j 23:57	15° Ƴ 44'24		retrograde	-5494 Sep 15 j 18:23	2° 8 06'59	
				opposition	-5494 Dec 01 j 17:42	0° 8 44'27	
conjunction	-5500 May 21 j 06:37	16° Y 20′20 -		min. Earth dist.	-5494 Dec 02 j 12:19		29.08443 AU
minimum elong	-5500 May 21 j 06:38	16° Y 20′20			-5494 Dec 29 j 12:59	30° ₹ Υ	
max. Earth dist.	-5500 May 20 j 14:24	16° Y 18′50 3	31.01201 AU	direct	-5493 Feb 19 j 20:37	29° Y 19′04	
morning rise	-5500 Jun 06 j 10:43	16° Ƴ 56'04			-5493 Apr 12 j 00:15	0°8	
retrograde	-5500 Sep 02 j 01:32	18° Ƴ 49'32		evening set	-5493 May 21 j 21:49	1° 8 15'43	
opposition	-5500 Nov 18 j 03:13	17° Y ′26′27 -		max. Earth dist.	-5493 Jun 06 j 04:59	1° 8 49'31	31.08851 AU
min. Earth dist.	-5500 Nov 18 j 16:48	17° Y °25′29 2	29.01765 AU				
direct	-5499 Feb 05 j 18:39	16° Y ′00′56		conjunction	-5493 Jun 07 j 02:47	1° 8 51'33	
evening set	-5499 May 07 j 13:28	17° Ƴ 57'24		minimum elong	-5493 Jun 07 j 02:47	1° 8 51'33	0°45'12
				morning rise	-5493 Jun 23 j 04:29	2° 8 27'05	
conjunction	-5499 May 23 j 20:01	18° Y ′33'19 -		retrograde	-5493 Sep 18 j 05:03	4° 8 19'46	
minimum elong	-5499 May 23 j 20:02	18° Ƴ 33'19		opposition	-5493 Dec 04 j 04:10	2° 8 57'17	
max. Earth dist.	-5499 May 23 j 03:33	18° Ƴ 31'48 3	31.02229 AU	min. Earth dist.	-5493 Dec 04 j 22:51		29.09311 AU
morning rise	-5499 Jun 08 j 23:44	19° ℃ 09'01		direct	-5492 Feb 22 j 08:17	1° 8 31'52	
retrograde	-5499 Sep 04 j 12:50	21°Υ02'23	1017111	evening set	-5492 May 23 j 10:55	3° 8 28'30	
opposition	-5499 Nov 20 j 13:38	19° Υ 39'22 -			5400 I 00:15 40	40 40 401 0	0040112
min. Earth dist.	-5499 Nov 21 j 04:34	19° Υ 38'19 2 18° Υ 13'54	29.02856 AU	conjunction	-5492 Jun 08 j 15:40	4° と 04'18 4° と 04'18	
direct	-5498 Feb 08 j 06:51 -5498 May 10 j 02:47	18° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		minimum elong max. Earth dist.	-5492 Jun 08 j 15:40 -5492 Jun 07 j 18:04		31.09670 AU
evening set	-5498 May 10 J 02:47	20 1 10 23			-5492 Jun 0/ j 18:04 -5492 Jun 24 j 16:45	_	31.096/0 AU
agniumation	5400 May 26 : 00:11	20° Y 46'18 -	1900/52	morning rise	-5492 Jun 24 j 16:45 -5492 Sep 19 j 14:01	4° と 39'48 6° と 32'22	
conjunction minimum elong	-5498 May 26 j 09:11 -5498 May 26 j 09:12	20 γ 46 18 - 20°γ 46'18		retrograde opposition	-5492 Sep 19 j 14:01 -5492 Dec 05 j 14:46	5° 8 09'54	0040115
max. Earth dist.	-5498 May 25 j 16:16	20° Υ 44'44 3		min. Earth dist.	-5492 Dec 06 j 11:05		29.10093 AU
morning rise	-5498 Jun 11 j 12:40	21° Υ 21'59	01.03363 AC	direct	-5491 Feb 23 j 19:12	3° 8 44'27	2).100)3 AO
retrograde	-5498 Sep 07 j 00:36	23° Y 15'14		evening set	-5491 May 25 j 23:59	5° 8 41'04	
opposition	-5498 Nov 22 j 23:54	21° Υ '52'20 -	1°12'11	max. Earth dist.	-5491 Jun 10 j 05:26		31.10441 AU
min. Earth dist.	-5498 Nov 23 j 14:39	21° Υ 51'17 2		mar. Bartii dige.	5 15 T Vani 10 J 05.20	0 011.12	31.101.1110
direct	-5497 Feb 10 j 20:45	20° Υ 26'53		conjunction	-5491 Jun 11 j 04:16	6° 8 16'50	-0°35'03
evening set	-5497 May 12 j 16:19	22° Y ′23′26		minimum elong	-5491 Jun 11 j 04:16	6°816'50	
Ü	, ,			morning rise	-5491 Jun 27 j 05:04	6° 8 52'18	
conjunction	-5497 May 28 j 22:27	22° Y ′59′20 -	1°05'08	retrograde	-5491 Sep 22 j 00:42	8° 8 44'43	
minimum elong	-5497 May 28 j 22:28	22° Y ′59'20	1°05'02	opposition	-5491 Dec 08 j 01:10	7° 8 22'16	-0°34'42
max. Earth dist.	-5497 May 28 j 04:22	22° Y ′57'40 3	31.04580 AU	min. Earth dist.	-5491 Dec 08 j 21:00	7° 8 20'53	29.10848 AU
morning rise	-5497 Jun 14 j 01:37	23° Y 35'00		direct	-5490 Feb 26 j 08:45	5° 8 56'47	
retrograde	-5497 Sep 09 j 11:37	25° Ƴ 28'09		evening set	-5490 May 28 j 12:43	7° 8 53'23	
opposition	-5497 Nov 25 j 10:13	24° Y ′05'21 -	1°07'05				
min. Earth dist.	-5497 Nov 26 j 02:19	24° Y ′04'13 2	29.05234 AU	conjunction	-5490 Jun 13 j 16:42	8° 8 29'06	
direct	-5496 Feb 13 j 07:41	22° Y 39'56		minimum elong	-5490 Jun 13 j 16:42	8° 8 29'06	0°29'39
evening set	-5496 May 14 j 05:47	24° Y 36'33		max. Earth dist.	-5490 Jun 12 j 17:44	8° 8 26'58	31.11192 AU
				morning rise	-5490 Jun 29 j 16:58	9° 8 04'32	
conjunction	-5496 May 30 j 11:46	25° Y 12′26 -		retrograde	-5490 Sep 24 j 10:43	10° 8 56'50	
minimum elong	-5496 May 30 j 11:46	25° Y 12′26		opposition	-5490 Dec 10 j 11:43	9° 8 34'23	
max. Earth dist.	-5496 May 29 j 17:42	25° Y 10'45 3	31.05777 AU	min. Earth dist.	-5490 Dec 11 j 08:52		29.11615 AU
morning rise	-5496 Jun 15 j 14:30	25° Y 48′04		direct	-5489 Feb 28 j 21:06	8° 8 08'52	
retrograde	-5496 Sep 10 j 22:45	27° Y 41′06		evening set	-5489 May 31 j 01:28	10° 8 05'26	
opposition	-5496 Nov 26 j 20:43	26° Y 18′25 -		max. Earth dist.	-5489 Jun 15 j 05:47	10° 8 38'58	31.11988 AU
min. Earth dist.	-5496 Nov 27 j 13:24	26° Y 17'15 2	29.06393 AU			4 .	
direct	-5495 Feb 14 j 21:04	24°Υ53'02		conjunction	-5489 Jun 16 j 05:02	10° 8 41'07	
evening set	-5495 May 16 j 19:10	26° Y 49'40	11 06001 :==	minimum elong	-5489 Jun 16 j 05:02	10° 8 41'07	0°24'24
max. Earth dist.	-5495 Jun 01 j 04:48	27° Y °23'42 3	51.06901 AU	morning rise	-5489 Jul 02 j 04:51	11° 8 16'30	
	5405 I 00:00:0	2700025:22	0055122	retrograde	-5489 Sep 26 j 21:15	13° 8 08'41	0022120
conjunction	-5495 Jun 02 j 00:43 -5495 Jun 02 j 00:43	27°Y25'32 -(opposition	-5489 Dec 12 j 22:07	11° 8 46'16	-0°23'29 29.12438 AU
minimum elong	-5475 Juli 02 J 00:43	27° Y °25'32 (0 33 10	min. Earth dist.	-5489 Dec 13 j 18:47	11 044749	27.12436 AU

Planetary Pheno	omena of Neptune f	from -5900	through -5398	3 (UT), Astrodiens	st AG 18-Feb-2025	14:23,	page 33
	ical year style is used: Th						
direct	-5488 Mar 02 j 11:05	10° 8 20'43		conjunction	-5483 Jun 29 j 04:44	23° 8 51'06	0°07'26
evening set	-5488 Jun 01 j 14:11	12° 8 17'16		minimum elong	-5483 Jun 29 j 04:43	23° 8 51'06	0°07'41
C	J			behind sun begin	-5483 Jun 28 j 22:50	23° 8 50'34	
conjunction	-5488 Jun 17 j 17:13	12° 8 52'55	-0°19'19	behind sun end	-5483 Jun 29 j 10:37	23° 8 51'37	
minimum elong	-5488 Jun 17 j 17:13	12° 8 52'55		morning rise	-5483 Jul 15 j 01:11	24° 8 26'14	
max. Earth dist.	-5488 Jun 16 j 17:22		31.12861 AU	retrograde	-5483 Oct 09 j 09:55	26° 8 18'04	
morning rise	-5488 Jul 03 j 16:32	13° 8 28'15	31.12001110	opposition	-5483 Dec 25 j 14:03	24° 8 56'05	0°10'42
morning rise	-5488 Aug 24 j 19:45	15° 8		min. Earth dist.	-5483 Dec 26 j 13:07		29.19183 AU
retrograde	-5488 Sep 28 j 08:00	15° 8 20'21		direct	-5482 Mar 16 j 09:21	23° 8 30'47	27.17103710
retrograde	-5488 Nov 02 j 10:24	15°R 8		evening set	-5482 Jun 15 j 16:25	25° 8 27'25	
opposition	-5488 Dec 14 j 08:44	13° 8 57'57	001750	evening set	-5462 Juli 15 j 10.25	23 02723	
* *	,	_	29.13379 AU	agniumation	5492 Jul 01 ; 16:21	26° 8 02'51	0°12'45
min. Earth dist.	-5488 Dec 15 j 06:02	13 8 30 28	29.13379 AU	conjunction	-5482 Jul 01 j 16:21		
direct	-5487 Mar 04 j 22:27			minimum elong	-5482 Jul 01 j 16:21	26° 8 02'51	0°13'01
evening set	-5487 Jun 04 j 02:30	14° 8 28'57		behind sun begin	-5482 Jul 01 j 12:27	26° 8 02'30	
	-5487 Jun 18 j 04:07	15° 8		behind sun end	-5482 Jul 01 j 20:15	26° 8 03'12	
max. Earth dist.	-5487 Jun 19 j 06:05	15° 8 02'25	31.13865 AU	max. Earth dist.	-5482 Jun 30 j 15:10		31.19686 AU
				morning rise	-5482 Jul 17 j 12:23	26° 8 37'58	
conjunction	-5487 Jun 20 j 05:11	15° 8 04'33		retrograde	-5482 Oct 11 j 20:36	28° 8 29'45	
minimum elong	-5487 Jun 20 j 05:11	15° 8 04'33	0°13'49	opposition	-5482 Dec 28 j 00:53	27° 8 07'50	0°16'23
behind sun begin	-5487 Jun 20 j 01:50	15° 8 04'16		min. Earth dist.	-5482 Dec 28 j 23:24	27° 8 06'17	29.20213 AU
behind sun end	-5487 Jun 20 j 08:32	15° 8 04'51		direct	-5481 Mar 18 j 22:20	25° 8 42'34	
morning rise	-5487 Jul 06 j 03:55	15° 8 39'51		evening set	-5481 Jun 18 j 04:41	27° 8 39'13	
retrograde	-5487 Sep 30 j 18:24	17° 8 31'51		max. Earth dist.	-5481 Jul 03 j 02:42	28° 8 12'15	31.20641 AU
opposition	-5487 Dec 16 j 19:19	16° 8 09'32	-0°12'08		,		
min. Earth dist.	-5487 Dec 17 j 16:33		29.14434 AU	conjunction	-5481 Jul 04 j 04:06	28° 8 14'37	0°18'03
	-5486 Feb 03 j 11:11	15°R ႘		minimum elong	-5481 Jul 04 j 04:05	28° 8 14'37	0°18'19
direct	-5486 Mar 07 j 12:29	14° 8 44'01		morning rise	-5481 Jul 19 j 23:23	28° 8 49'40	0 10 17
direct	-5486 Apr 08 j 02:07	15°8		morning risc	-5481 Aug 25 j 10:37	0°II	
ovening set		16° 8 40'34		ratrograda		0° Ⅱ 41'26	
evening set	-5486 Jun 06 j 15:02	10 04034		retrograde	-5481 Oct 14 j 06:45		
	5406 X 00:1506	17011100	0000110		-5481 Dec 05 j 00:04	30°R ∀	
conjunction	-5486 Jun 22 j 17:06	17° 8 16'08		opposition	-5481 Dec 30 j 11:52	29° 8 19'33	
minimum elong	-5486 Jun 22 j 17:06	17° 8 16'08	0°08'29	min. Earth dist.	-5481 Dec 31 j 11:46		29.21114 AU
behind sun begin	-5486 Jun 22 j 11:23	17° 8 15'38		direct	-5480 Mar 20 j 09:47	27° 8 54'19	
behind sun end	-5486 Jun 22 j 22:49	17° 8 16'39		evening set	-5480 Jun 19 j 16:51	29° 8 50'57	
max. Earth dist.	-5486 Jun 21 j 16:55		31.14983 AU		-5480 Jun 23 j 20:00	Π $^{\circ}0$	
morning rise	-5486 Jul 08 j 15:26	17° 8 51'24					
retrograde	-5486 Oct 03 j 05:20	19° 8 43'20		conjunction	-5480 Jul 05 j 15:39	0° Ⅱ 26′18	0°23'20
opposition	-5486 Dec 19 j 05:44	18° 8 21'05	-0°06'26	minimum elong	-5480 Jul 05 j 15:39	0° Ⅲ 26′18	0°23'36
min. Earth dist.	-5486 Dec 20 j 02:55	18° 8 19'36	29.15608 AU	max. Earth dist.	-5480 Jul 04 j 13:54	0° Ⅲ 23'54	31.21480 AU
direct	-5485 Mar 09 j 23:37	16° 8 55'36		morning rise	-5480 Jul 21 j 10:23	1° Ⅱ 01'19	
evening set	-5485 Jun 09 j 03:24	18° 8 52'11		retrograde	-5480 Oct 15 j 17:15	2° I 53'03	
max. Earth dist.	-5485 Jun 24 j 05:49	19° 8 25'34	31.16188 AU	opposition	-5480 Dec 31 j 22:52	1° Ⅱ 31'12	0°27'39
	J			min. Earth dist.	-5479 Jan 01 j 22:22		29.21887 AU
conjunction	-5485 Jun 25 j 05:09	19° 8 27'44	-0°03'23	direct	-5479 Mar 22 j 23:10	0° Ⅱ 05'58	
minimum elong	-5485 Jun 25 j 05:08	19° 8 27'44		evening set	-5479 Jun 22 j 04:46	2° Ⅱ 02'35	
behind sun begin	-5485 Jun 24 j 22:38	19° 8 27'09	0 05 10	max. Earth dist.	-5479 Jul 07 j 00:27		31.22198 AU
behind sun end	-5485 Jun 25 j 11:38	19° 8 28'18		max. Lurur dist.	5175 Jul 07 J 00.27	- -	31.22170 AU
morning rise	-5485 Jul 11 j 02:46	20° 8 02'57		conjunction	-5479 Jul 08 j 02:54	2° Ⅱ 37'53	0°28'34
retrograde	-5485 Oct 05 j 13:55	21° 8 54'50		minimum elong	-5479 Jul 08 j 02:54	2° П 37'53	
•			0000144	C			0 20 30
opposition	-5485 Dec 21 j 16:27	20° 8 32'41		morning rise	-5479 Jul 23 j 21:03	3° Ⅱ 12'51	
min. Earth dist.	-5485 Dec 22 j 14:29		29.16824 AU	retrograde	-5479 Oct 18 j 04:11	5° Ⅱ 04'33	
asc. node	-5484 Feb 06 j 04:49	19° 8 25'26		opposition	-5478 Jan 03 j 09:54	3° Ⅱ 42'42	
direct	-5484 Mar 11 j 12:00	19° 8 07'16		min. Earth dist.	-5478 Jan 04 j 10:10		29.22573 AU
evening set	-5484 Jun 10 j 15:50	21° 8 03'52		direct	-5478 Mar 25 j 10:48	2° Ⅱ 17′28	
				evening set	-5478 Jun 24 j 16:34	4° Ⅱ 14'04	
conjunction	-5484 Jun 26 j 16:50	21° 8 39'23	0°02'06				
minimum elong	-5484 Jun 26 j 16:50	21° 8 39'23	0°02'21	conjunction	-5478 Jul 10 j 14:11	4° ∏ 49'19	0°33'45
behind sun begin	-5484 Jun 26 j 10:19	21° 8 38'48		minimum elong	-5478 Jul 10 j 14:11	4° Ⅱ 49'19	0°34'02
behind sun end	-5484 Jun 26 j 23:22	21° 8 39'57		max. Earth dist.	-5478 Jul 09 j 12:23	4° Ⅱ 46'55	31.22846 AU
max. Earth dist.	-5484 Jun 25 j 16:10		31.17412 AU	morning rise	-5478 Jul 26 j 07:38	5° Ⅱ 24'13	
morning rise	-5484 Jul 12 j 14:03	22° 8 14'34		retrograde	-5478 Oct 20 j 14:35	7° Ⅱ 15'52	
retrograde	-5484 Oct 07 j 00:46	24° 8 06'25		opposition	-5477 Jan 05 j 20:45	5° I I54'02	0°38'45
opposition	-5484 Dec 23 j 03:10	22° 8 44'21	0°04'59	min. Earth dist.	-5477 Jan 06 j 21:08		29.23191 AU
min. Earth dist.	-5484 Dec 24 j 00:47		29.18039 AU	direct	-5477 Mar 28 j 01:32	4° I I28'48	27.23171 AU
direct	-5483 Mar 13 j 23:03	22 8 42 31 21° 8 19'00	27.10037 AU	evening set	-5477 Jun 27 j 04:23	6° I I25'21	
	-5483 Jun 13 j 04:07	23° 8 15'37		max. Earth dist.			31.23455 AU
evening set	-	_	21 10501 ATT	max. Earth dist.	-5477 Jul 11 j 22:27	о дз804	51.25455 AU
max. Earth dist.	-5483 Jun 28 j 04:38	23 04032	31.18591 AU				

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5477 in astronomical counting style is the year 5478 BCE in historical counting style. -5477 Jul 13 i 01:13 7°**I**100'33 0°38'53 evening set -5470 Jul 12 i 11:33 21°**∏**42'04 conjunction minimum elong -5477 Jul 13 j 01:13 7°**I**I00'33 0°39'10 max. Earth dist. -5470 Jul 27 j 02:33 22°**Д**14'34 31.29069 AU -5477 Jul 28 j 18:09 7°**Ⅲ**35'25 morning rise -5477 Oct 23 j 01:16 9°**Ⅲ**27'01 -5470 Jul 28 j 03:37 22°II16'55 1°12'49 conjunction retrograde -5476 Jan 08 j 07:47 8°**II**05'11 0°44'12 -5470 Jul 28 j 03:36 22°**Ⅱ**16'55 opposition minimum elong 1°13'08 8°**Д**03'32 29.23818 AU -5470 Aug 12 j 15:55 22°II51'28 min. Earth dist. -5476 Jan 09 j 07:51 morning rise 24°**Ⅱ**43'09 direct -5476 Mar 29 j 13:24 6°**Ⅲ**39'57 retrograde -5470 Nov 06 j 21:43 -5469 Jan 23 j 14:27 1°20'09 23°**Ⅲ**21'33 evening set -5476 Jun 28 j 15:48 8°**Ⅲ**36′28 opposition -5469 Jan 24 j 13:57 23°**П**19'56 29.29506 AU max. Earth dist. -5476 Jul 13 j 10:39 9°**Ⅲ**09'15 31.24090 AU min. Earth dist. direct -5469 Apr 14 j 22:37 21°**I**I56'38 conjunction -5476 Jul 14 j 12:07 9°**Ⅱ**11'37 0°43'58 evening set -5469 Jul 14 j 22:41 23°**Ⅲ**53′03 -5476 Jul 14 j 12:07 minimum elong 9°**Ⅱ**11'37 0°44'15 -5469 Jul 30 j 14:08 morning rise -5476 Jul 30 j 04:14 9°**Ⅱ**46′26 conjunction 24°**Ⅲ**27'52 1°17'18 -5469 Jul 30 j 14:08 retrograde -5476 Oct 24 j 09:21 11°**Ⅲ**38′00 minimum elong 24°**Ⅲ**27'51 1°17'37 opposition -5475 Jan 09 j 18:58 10°**Ⅱ**16′11 0°49'36 max. Earth dist. -5469 Jul 29 j 13:55 24°**П**25'36 31.29739 AU min. Earth dist. -5475 Jan 10 j 19:23 10°**I**14'30 29.24485 AU morning rise -5469 Aug 15 j 01:41 25°**Ⅲ**02'21 direct -5475 Apr 01 j 02:29 8°**Ⅲ**50'57 retrograde -5469 Nov 09 j 08:16 26°**Ⅲ**54'05 evening set -5475 Jul 01 j 03:20 10°**Ⅱ**47'26 opposition -5468 Jan 26 j 02:06 25°**Ⅲ**32'29 1°24'53 min. Earth dist. -5468 Jan 27 j 01:36 25°**Ц**30'53 29.30101 AU conjunction -5475 Jul 16 j 22:49 11°**II**22'32 0°48'58 -5468 Apr 16 j 12:39 24°**Ⅱ**07'36 minimum elong -5475 Jul 16 j 22:48 11°**Ⅲ**22'32 0°49'16 evening set -5468 Jul 16 j 09:45 26° II 04'00 max. Earth dist. -5475 Jul 15 i 20:34 11°**Д**20'06 31.24801 AU max. Earth dist. -5468 Jul 30 i 23:10 26°**I**I36'24 31.30256 AU morning rise -5475 Aug 01 i 14:27 11°**I**57′18 retrograde -5475 Oct 26 i 19:48 13°**Ⅱ**48'51 conjunction -5468 Aug 01 i 00:21 26°**Ⅲ**38'45 1°21'40 opposition -5474 Jan 12 i 05:55 12°**Ⅲ**27'03 0°54'55 minimum elong -5468 Aug 01 j 00:20 26°**Ⅱ**38'45 1°21'59 -5474 Jan 13 j 05:14 12°**Ⅲ**25'27 29.25251 AU -5468 Aug 16 j 11:23 27°**Ⅱ**13'12 min. Earth dist. morning rise -5474 Apr 03 j 14:01 11°**II**01'51 -5468 Nov 10 j 19:27 29°**Ⅱ**04'57 direct retrograde -5474 Jul 03 j 14:36 12°**Ⅲ**58'19 -5467 Jan 27 j 13:43 opposition 27°**Ⅱ**43'21 1°29'29 evening set -5474 Jul 18 j 08:32 13°**Д**31'03 31.25604 AU -5467 Jan 28 j 12:50 max. Earth dist. min. Earth dist. 27°**II**41'46 29.30560 AU -5467 Apr 19 j 00:14 26°**Ⅱ**18'29 direct -5474 Jul 19 j 09:35 13°**Ⅲ**33'23 0°53'55 -5467 Jul 18 j 20:38 conjunction evening set 28° II 14′50 -5474 Jul 19 j 09:35 -5467 Aug 02 j 10:38 28°**Ⅲ**47'17 31.30634 AU 13°**Ⅲ**33'23 0°54'13 max. Earth dist. minimum elong -5474 Aug 04 j 00:25 14°**Ⅱ**08'06 morning rise -5474 Oct 29 j 04:36 15°**Ⅲ**59'40 -5467 Aug 03 j 10:42 28°**II**49'33 1°25'55 retrograde conjunction -5473 Jan 14 j 17:09 14°**Ⅲ**37'53 1°00'09 -5467 Aug 03 j 10:42 28°**Ⅱ**49'32 opposition minimum elong 1°26'14 14°**Д**36'14 29.26099 AU -5467 Aug 18 j 20:57 29°**Ⅲ**23'56 min. Earth dist. -5473 Jan 15 j 17:15 morning rise -5473 Apr 06 j 00:52 -5467 Sep 05 j 01:48 direct 13°**Ⅱ**12'45 0ಂತಾ evening set -5473 Jul 06 j 01:58 15°**Ⅲ**09'12 retrograde -5467 Nov 13 j 04:16 1°9515'43 -5466 Jan 26 j 10:41 30°R∏ conjunction -5473 Jul 21 j 20:08 15°**耳**44'12 0°58'46 opposition -5466 Jan 30 j 01:18 29°**I**54′06 1°33′57 -5473 Jul 21 j 20:08 15°**耳**44'12 0°59'05 min. Earth dist. -5466 Jan 31 j 01:02 29°**П**52'29 29.30875 AU minimum elong -5473 Jul 20 j 18:50 15°**Д**41'50 31.26488 AU -5466 Apr 21 j 13:40 28°**Ⅲ**29'15 max. Earth dist. direct -5473 Aug 06 j 10:26 16°**Ⅱ**18'53 -5466 Jul 09 j 07:07 0ಂತಾ morning rise -5473 Oct 31 j 14:13 18°**Ⅱ**10'27 -5466 Jul 21 j 07:32 0°925'33 retrograde evening set -5472 Jan 17 j 04:16 16°**Ⅱ**48'44 1°05'18 opposition -5472 Jan 18 i 03:09 16°**Ⅱ**47'10 29.27001 AU min. Earth dist. conjunction -5466 Aug 05 j 20:46 1°500'12 1°30'02 direct -5472 Apr 07 j 13:04 15°**Ⅲ**23'39 minimum elong -5466 Aug 05 i 20:46 1°500'12 1°30'21 evening set -5472 Jul 07 i 13:14 17°**Ⅱ**20'06 max. Earth dist. -5466 Aug 04 i 19:49 0°557'52 31.30894 AU max. Earth dist. -5472 Jul 22 j 05:57 17°**Д**52'45 31.27392 AU morning rise -5466 Aug 21 i 06:35 1°534'33 retrograde -5466 Nov 15 i 15:06 3°926'21 -5472 Jul 23 j 06:45 17°**I**I55′04 1°03′33 -5465 Feb 01 j 12:52 2°504'42 1°38'18 conjunction opposition -5472 Jul 23 i 06:45 17°**I**I55'04 1°03'52 min. Earth dist. -5465 Feb 02 j 11:34 2°503'09 29.31092 AU minimum elong -5472 Aug 07 j 20:18 18°**Ⅲ**29'42 direct -5465 Apr 24 j 02:07 0°939'51 morning rise 20°**Ⅱ**21'19 -5465 Jul 23 j 18:05 retrograde -5472 Nov 02 j 00:07 evening set 2°936'05 opposition -5471 Jan 18 j 15:42 18°**Ⅲ**59'38 1°10'21 max. Earth dist. -5465 Aug 07 j 07:00 3°508'28 31.31064 AU min. Earth dist. -5471 Jan 19 j 15:21 18°**Д**58'01 29.27914 AU -5471 Apr 09 j 23:01 17°**Ⅲ**34'37 conjunction -5465 Aug 08 j 06:46 3°510'41 1°34'01 direct -5471 Jul 10 j 00:18 19°**Ⅲ**31′04 -5465 Aug 08 j 06:46 1°34'21 evening set minimum elong 3°9510'41 -5465 Aug 23 j 15:48 morning rise 3°9545'00 -5471 Jul 25 j 17:08 20°**Ⅲ**05'58 1°08'14 -5465 Nov 17 j 23:44 conjunction retrograde 5°936'50 minimum elong -5471 Jul 25 j 17:08 20°**I**105′58 1°08′33 opposition -5464 Feb 04 j 00:39 4°9515'08 1°42'29 max. Earth dist. -5471 Jul 24 j 16:37 20°**Ⅲ**03'41 31.28281 AU min. Earth dist. -5464 Feb 05 j 00:03 4°513'33 29.31254 AU morning rise -5471 Aug 10 j 06:05 20°**Ⅱ**40'34 direct -5464 Apr 25 j 13:57 2°950'18 retrograde -5471 Nov 04 j 10:25 22°**Ⅲ**32′13 evening set -5464 Jul 25 j 04:39 4°9546'28 opposition -5470 Jan 21 j 03:04 21°**Ⅱ**10'35 1°15'19 -5470 Jan 22 j 02:01 21°**Д**09'01 29.28761 AU -5464 Aug 09 j 16:33 5°**ട്**21'01 min. Earth dist. conjunction 1°37'52 -5470 Apr 12 j 11:15 19°**Ⅱ**45'37 -5464 Aug 09 j 16:32 5°521'01 1°38'12 direct minimum elong

Planetary Phen	omena of Neptune f	From -5900	through -5398	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 35
•	nical year style is used: Th		•				
max. Earth dist.	-5464 Aug 08 j 16:54	5° 5 018'48	31.31226 AU	conjunction	-5457 Aug 25 j 11:00	20°533'06	2°00'37
morning rise	-5464 Aug 25 j 01:06	5° © 55'17		minimum elong	-5457 Aug 25 j 11:00	20°533'06	2°00'56
retrograde	-5464 Nov 19 j 09:06	7° 5 47'09		max. Earth dist.	-5457 Aug 24 j 15:36	20°531'16	31.33662 AU
opposition	-5463 Feb 05 j 12:17	6°\$25'25	1°46'31	morning rise	-5457 Sep 09 j 15:47	21°907'07	
min. Earth dist.	-5463 Feb 06 j 10:04	6°\$23'56	29.31432 AU	retrograde	-5457 Dec 05 j 12:11	22° © 59'39	
direct	-5463 Apr 28 j 02:09	5° © 00'35		opposition	-5456 Feb 21 j 23:42	21° © 37'56	2°10'14
evening set	-5463 Jul 27 j 14:52	6°956'42		min. Earth dist.	-5456 Feb 22 j 17:27	21°536'44	29.33926 AU
max. Earth dist.	-5463 Aug 11 j 03:19	7° 5 29'04	31.31419 AU	direct	-5456 May 13 j 11:18	20°513'34	
				evening set	-5456 Aug 11 j 13:35	22° © 09'29	
conjunction	-5463 Aug 12 j 02:09	7° 5 31'13	1°41'35				
minimum elong	-5463 Aug 12 j 02:08	7° 5 31'13	1°41'54	conjunction	-5456 Aug 26 j 20:32	22°5543'42	2°03'13
morning rise	-5463 Aug 27 j 10:04	8° © 05'26		minimum elong	-5456 Aug 26 j 20:31	22°5643'42	2°03'31
retrograde	-5463 Nov 21 j 18:38	9° © 57'22		max. Earth dist.	-5456 Aug 26 j 02:15	22°5641'59	31.33846 AU
opposition	-5462 Feb 08 j 00:04	8° © 35'37	1°50'25	morning rise	-5456 Sep 11 j 00:42	23°517'41	
min. Earth dist.	-5462 Feb 08 j 22:03	8° © 34'07	29.31676 AU	retrograde	-5456 Dec 06 j 21:39	25° © 10'19	
direct	-5462 Apr 30 j 11:56	7° © 10'49		opposition	-5455 Feb 23 j 12:03	23°548'35	2°12'55
evening set	-5462 Jul 30 j 01:08	9° © 06'53		min. Earth dist.	-5455 Feb 24 j 06:27	23°547'20	29.34053 AU
	·			direct	-5455 May 15 j 23:10	22°524'15	
conjunction	-5462 Aug 14 j 11:46	9° 5 341'21	1°45'09	evening set	-5455 Aug 13 j 23:29	24°520'07	
minimum elong	-5462 Aug 14 j 11:45	9° 5 341'21	1°45'28	max. Earth dist.	-5455 Aug 28 j 11:39	24°952'34	31.33903 AU
max. Earth dist.	-5462 Aug 13 j 13:53	9° 5 39'17	31.31702 AU		e ,		
morning rise	-5462 Aug 29 j 19:05	10°9515'32		conjunction	-5455 Aug 29 j 05:50	24°954'17	2°05'38
retrograde	-5462 Nov 24 j 04:24	12° © 07'32		minimum elong	-5455 Aug 29 j 05:49	24°954'17	2°05'56
opposition	-5461 Feb 10 j 11:42	10°9545'46	1°54'08	morning rise	-5455 Sep 13 j 09:40	25° © 28'15	
min. Earth dist.	-5461 Feb 11 j 08:17	10°5544'23	29.31999 AU	retrograde	-5455 Dec 09 j 06:56	27°520'57	
direct	-5461 May 02 j 23:36	9° 5 21'01		opposition	-5454 Feb 26 j 00:14	25° © 59'11	2°15'25
evening set	-5461 Aug 01 j 11:23	11°9517'05		min. Earth dist.	-5454 Feb 26 j 17:11		29.34035 AU
844				direct	-5454 May 18 j 11:38	24°534'53	
conjunction	-5461 Aug 16 j 21:18	11° © 51'29	1°48'34	evening set	-5454 Aug 16 j 09:20	26°530'39	
minimum elong	-5461 Aug 16 j 21:17	11° © 51'29	1°48'52	<i>3</i>			
max. Earth dist.	-5461 Aug 15 j 23:32		31.32066 AU	conjunction	-5454 Aug 31 j 15:10	27° © 04'48	2°07'53
morning rise	-5461 Sep 01 j 04:07	12°925'38		minimum elong	-5454 Aug 31 j 15:10	27° © 04'48	2°08'10
retrograde	-5461 Nov 26 j 15:57	14°9517'45		max. Earth dist.	-5454 Aug 30 j 21:23		31.33810 AU
opposition	-5460 Feb 12 j 23:35	12°955'59	1°57'42	morning rise	-5454 Sep 15 j 18:33	27°538'44	
min. Earth dist.	-5460 Feb 13 j 19:52		29.32414 AU	retrograde	-5454 Dec 11 j 16:33	29° © 31'31	
direct	-5460 May 04 j 10:13	11° © 31'19		opposition	-5453 Feb 28 j 12:31	28°509'40	2°17'43
evening set	-5460 Aug 02 j 21:20	13°927'21		min. Earth dist.	-5453 Mar 01 i 05:53		29.33895 AU
max. Earth dist.	-5460 Aug 17 j 10:41		31.32503 AU	direct	-5453 May 20 j 22:03	26°5945'23	
	*			evening set	-5453 Aug 18 j 19:02	28°5541'04	
conjunction	-5460 Aug 18 j 06:44	14° © 01'43	1°51'49	max. Earth dist.	-5453 Sep 02 j 07:38		31.33626 AU
minimum elong	-5460 Aug 18 j 06:43	14° © 01'43					
morning rise	-5460 Sep 02 j 12:54	14°935'50		conjunction	-5453 Sep 03 j 00:25	29° © 15'10	2°09'56
retrograde	-5460 Nov 28 j 02:49	16°9528'03		minimum elong	-5453 Sep 03 j 00:24	29° © 15'10	2°10'14
opposition	-5459 Feb 14 j 11:34	15° © 06'18	2°01'06	morning rise	-5453 Sep 18 j 03:23	29° © 49'05	
min. Earth dist.	-5459 Feb 15 j 07:13		29.32859 AU		-5453 Sep 23 j 03:42	$0^{\circ}\Omega$	
direct	-5459 May 06 j 23:02	13°9541'43		retrograde	-5453 Dec 14 j 02:13	1° Ω 41'56	
evening set	-5459 Aug 05 j 07:30	15°937'44		opposition	-5452 Mar 02 j 00:52	0° Ω 20'01	2°19'49
844				min. Earth dist.	-5452 Mar 02 j 16:50		29.33670 AU
conjunction	-5459 Aug 20 j 16:08	16°9512'04	1°54'55		-5452 Mar 14 j 12:13	30° ₹ 5	
minimum elong	-5459 Aug 20 j 16:07	16°512'04		direct	-5452 May 22 j 10:26	28°955'44	
max. Earth dist.	-5459 Aug 19 j 19:42		31.32948 AU		-5452 Jul 26 j 03:08	$0^{\circ}\Omega$	
morning rise	-5459 Sep 04 j 21:56	16°5546'09		evening set	-5452 Aug 20 j 04:33	0° Ω 51'19	
retrograde	-5459 Nov 30 j 14:28	18° © 38'28					
opposition	-5458 Feb 16 j 23:22	17°9516'45	2°04'20	conjunction	-5452 Sep 04 j 09:21	1° Ω 25'23	2°11'49
min. Earth dist.	-5458 Feb 17 j 18:11		29.33303 AU	minimum elong	-5452 Sep 04 j 09:21	1° Ω 25'23	
direct	-5458 May 09 j 09:16	15°952'15	27.55500 110	max. Earth dist.	-5452 Sep 03 j 16:41		31.33381 AU
evening set	-5458 Aug 07 j 17:30	17°5548'15		morning rise	-5452 Sep 19 j 12:04	1° £ 59'16	31.33301110
max. Earth dist.	-5458 Aug 22 j 06:46		31.33350 AU	retrograde	-5452 Dec 15 j 13:18	3° Ω 52'13	
	1.mg == j 00.10			opposition	-5451 Mar 04 j 13:15	2° Ω 30'12	2°21'43
conjunction	-5458 Aug 23 j 01:41	18° © 22'32	1°57'51	min. Earth dist.	-5451 Mar 05 j 04:48		29.33436 AU
minimum elong	-5458 Aug 23 j 01:41	18°522'32		direct	-5451 May 24 j 20:54	1° Ω 05'56	
morning rise	-5458 Sep 07 j 06:49	18°956'35	•	evening set	-5451 Aug 22 j 13:57	3° Ω 01'24	
retrograde	-5458 Dec 03 j 00:13	20°549'01		5.5g 500	0.01.1145 22 j 15.57	5 UC012T	
opposition	-5457 Feb 19 j 11:32	19° 5 27'18	2°07'23	conjunction	-5451 Sep 06 j 18:26	3° Ω 35'26	2°13'30
min. Earth dist.	-5457 Feb 20 j 06:36		29.33666 AU	minimum elong	-5451 Sep 06 j 18:26	3° Ω 35'26	
direct	-5457 May 11 j 22:36	18°502'53		max. Earth dist.	-5451 Sep 06 j 03:42		31.33151 AU
evening set	-5457 Aug 10 j 03:36	19°958'51		morning rise	-5451 Sep 21 j 20:41	4° Ω 09'17	21.23131710
				0		5500 17	

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5451 in astronomical counting style is the year 5452 BCE in historical counting style. -5451 Dec 17 j 23:19 6°Ω02'19 evening set -5444 Sep 06 j 06:45 18°Ω12'51 retrograde -5450 Mar 07 j 01:27 4°Ω40'14 2°23'26 opposition 18°**Ω**46'45 2°19'54 min. Earth dist. -5450 Mar 07 j 16:06 4°**Ω**39'15 29.33229 AU -5444 Sep 21 j 08:46 conjunction -5444 Sep 21 j 08:47 -5450 May 27 j 08:53 3°**Ω**15'59 minimum elong 18°Ω46'45 2°20'07 direct -5450 Aug 24 j 23:27 -5444 Sep 21 j 00:16 evening set 5°**Ω**11'23 max. Earth dist. 18°**Ω**45'56 31.32896 AU -5444 Oct 06 j 09:31 morning rise 19°**£**20′33 -5450 Sep 09 j 03:20 -5443 Jan 02 j 03:21 conjunction 5°**Ω**45'23 2°15'00 retrograde 21°**Ω**14'31 -5450 Sep 09 j 03:20 minimum elong 5°**Ω**45'23 2°15'16 opposition -5443 Mar 22 j 17:29 19°**Ω**52'18 2°29'32 -5450 Sep 08 j 12:34 max. Earth dist. 5°**Ω**43'59 31.32984 AU min. Earth dist. -5443 Mar 23 j 01:32 19°**£**51'45 29.32964 AU morning rise -5450 Sep 24 j 05:25 6°**Ω**19'13 direct -5443 Jun 11 j 17:17 18°**Ω**28'36 retrograde -5450 Dec 20 j 11:05 8°**Ω**12'21 evening set -5443 Sep 08 j 16:07 20°**Ω**23'36 opposition -5449 Mar 09 j 13:48 6°**Ω**50'13 2°24'56 min. Earth dist. -5449 Mar 10 j 02:58 6°**Ω**49'20 29.33115 AU conjunction -5443 Sep 23 j 17:47 20°**Ω**57'28 2°20'01 -5443 Sep 23 j 17:47 direct -5449 May 29 j 18:57 5°**Ω**26′00 minimum elong 20°**Ω**57'28 2°20'14 evening set -5449 Aug 27 j 08:38 7°**Ω**21′20 max. Earth dist. -5443 Sep 23 j 09:00 20°**Ω**56'39 31.32632 AU morning rise -5443 Oct 08 j 18:33 21°Ω31'17 conjunction -5449 Sep 11 j 12:16 7°Ω55'18 2°16'18 retrograde -5442 Jan 04 j 15:07 23°**Ω**25'24 minimum elong -5449 Sep 11 j 12:16 7°**Ω**55'18 2°16'34 opposition -5442 Mar 25 j 06:14 22°\$\O3'08 2°29'33 max. Earth dist. -5449 Sep 10 j 23:34 7°**Ω**54'06 31.32907 AU min. Earth dist. -5442 Mar 25 j 14:06 22°**Ω**02'36 29.32631 AU morning rise -5449 Sep 26 j 13:54 8°**Ω**29'08 direct -5442 Jun 14 j 03:09 20°**Ω**39'29 retrograde -5449 Dec 22 j 21:17 10°**Ω**22'22 evening set -5442 Sep 11 j 01:19 22°**Ω**34'24 opposition -5448 Mar 11 j 02:20 9°Ω00'12 2°26'14 min. Earth dist. -5448 Mar 11 j 15:04 8° Ω 59'21 29.33082 AU conjunction -5442 Sep 26 i 02:57 23°Ω08'16 2°19'56 direct -5448 May 31 i 07:47 7°**Ω**36'04 minimum elong -5442 Sep 26 i 02:57 23°Ω08'16 2°20'09 evening set -5448 Aug 28 j 17:58 9°**Ω**31'20 max. Earth dist. -5442 Sep 25 j 19:47 23°**Ω**07'36 31.32220 AU -5442 Oct 11 j 03:30 23°Ω42'05 morning rise -5448 Sep 12 j 21:05 10°**Ω**05'17 2°17'25 -5441 Jan 07 j 01:47 25°Ω36'20 conjunction retrograde -5448 Sep 12 j 21:05 10°Ω05'17 2°17'41 -5441 Mar 27 j 19:10 24°**Ω**13'59 2°29'22 minimum elong opposition -5448 Sep 12 j 08:35 10°**Ω**04'06 31.32922 AU -5441 Mar 28 j 02:24 max. Earth dist. min. Earth dist. 24°**Ω**13'30 29.32134 AU -5448 Sep 27 j 22:38 10°**Ω**39'06 -5441 Jun 16 j 14:39 22°Ω50'22 morning rise direct -5441 Sep 13 j 10:28 -5448 Dec 24 j 09:45 12°**Ω**32'28 retrograde evening set 24°**Ω**45'12 -5447 Mar 13 j 14:41 11°**Ω**10'18 2°27'19 opposition 11°**Ω**09'34 29.33129 AU 25°Ω19'04 2°19'40 min. Earth dist. -5447 Mar 14 j 01:31 conjunction -5441 Sep 28 j 11:46 -5447 Jun 02 j 19:32 9°**Ω**46'14 -5441 Sep 28 j 11:46 25°Ω19'04 2°19'52 direct minimum elong 11°**Q**41'28 -5447 Aug 31 j 03:06 -5441 Sep 28 j 04:19 25°**Ω**18'21 31.31664 AU evening set max. Earth dist. -5441 Oct 13 j 12:28 25°**Ω**52'53 morning rise -5447 Sep 15 j 06:00 12°**Ω**15'24 2°18'20 -5440 Jan 09 j 14:06 conjunction retrograde 27°**Ω**47'14 minimum elong -5447 Sep 15 j 06:00 12°Ω15'24 2°18'36 opposition -5440 Mar 29 j 08:06 26°Ω24'48 2°28'58 max. Earth dist. -5447 Sep 14 j 19:01 12°**Ω**14'22 31.32977 AU min. Earth dist. -5440 Mar 29 j 14:09 26°**Ω**24'24 29.31522 AU morning rise -5447 Sep 30 j 07:15 12°**Ω**49'12 direct -5440 Jun 18 j 00:39 25°**Ω**01'13 retrograde -5447 Dec 26 j 19:55 14°**Ω**42'44 evening set -5440 Sep 14 j 19:28 26°**Ω**55'56 -5446 Mar 16 j 03:18 13°**Ω**20'32 2°28'11 opposition min. Earth dist. -5446 Mar 16 j 14:21 13°**Ω**19'48 29.33188 AU conjunction -5440 Sep 29 j 20:48 27°**Ω**29'47 2°19'11 -5446 Jun 05 j 06:50 11°**Ω**56'35 -5440 Sep 29 j 20:48 27°**Ω**29'47 2°19'23 direct minimum elong -5446 Sep 02 j 12:20 13°**Ω**51'46 max. Earth dist. -5440 Sep 29 j 15:06 27°**Ω**29'15 31.31003 AU evening set morning rise -5440 Oct 14 i 21:22 28°**Ω**03'37 conjunction -5446 Sep 17 i 14:51 14°Ω25'40 2°19'03 retrograde -5439 Jan 11 j 01:00 29°**Ω**58'05 minimum elong -5446 Sep 17 i 14:51 14°Ω25'41 2°19'18 opposition -5439 Mar 31 i 20:57 28°Ω35'33 2°28'22 max. Earth dist. -5446 Sep 17 i 04:34 14°Ω24'42 31.33029 AU min. Earth dist. -5439 Apr 01 i 02:49 28°Ω35'09 29.30830 AU -5446 Oct 02 j 15:57 14°Ω59'29 direct -5439 Jun 20 j 13:34 27°Ω11'58 morning rise -5446 Oct 02 j 21:37 15°Ω evening set -5439 Sep 17 j 04:27 29°**Ω**06'34 -5446 Dec 29 j 06:08 16°**Ω**53'09 retrograde 15°Ω30'58 2°28'51 conjunction -5439 Oct 02 j 05:34 29°Ω40'25 2°18'31 opposition -5445 Mar 18 j 15:49 min. Earth dist. -5445 Mar 19 j 01:04 15°**Ω**30'20 29.33209 AU minimum elong -5439 Oct 02 j 05:35 29°Ω40'25 2°18'42 -5445 Apr 07 j 06:47 15°RΩ max. Earth dist. -5439 Oct 02 j 00:06 29° **Ω**39'54 31.30308 AU -5445 Jun 07 j 18:59 direct 14°**Ω**07'06 -5439 Oct 10 j 21:03 0° m -5445 Aug 04 j 19:23 15°Ω morning rise -5439 Oct 17 j 06:19 0° m 14'15 -5445 Sep 04 j 21:36 16°**Ω**02'13 -5438 Jan 13 j 14:03 2° 10 08'49 evening set retrograde -5438 Apr 03 j 09:43 opposition 0° **M** $_{2}$ 46'11 2° 27'33 -5445 Sep 19 j 23:48 16°**Ω**36'08 2°19'34 0° Mp 45'55 29.30133 AU conjunction min. Earth dist. -5438 Apr 03 j 13:37 minimum elong -5445 Sep 19 j 23:48 16°**Ω**36'08 2°19'49 -5438 May 03 j 15:58 30°₽£ max. Earth dist. -5445 Sep 19 j 14:05 16°Ω35'13 31.33009 AU direct -5438 Jun 23 j 01:29 29°**£**22'37 morning rise -5445 Oct 05 j 00:45 17°**Ω**09'56 -5438 Aug 10 j 06:09 0° m retrograde -5445 Dec 31 j 16:57 19°**Ω**03'46 evening set -5438 Sep 19 j 13:17 1° Mp 17'07 opposition -5444 Mar 20 j 04:42 17°**Ω**41'33 2°29'18 min. Earth dist. -5444 Mar 20 j 14:05 17°**Ω**40'56 29.33153 AU -5438 Oct 04 j 14:22 1° m 50'58 2°17'39 conjunction -5444 Jun 09 j 05:10 16°**Ω**17'47 -5438 Oct 04 j 14:22 1° m 50'58 2°17'49 direct minimum elong

Planetary Pheno	omena of Neptune	from -5900	through -5398	(UT), Astrodien	st AG 18-Feb-2025	14:23,	page 37
Attention, astronom	nical year style is used: Th	ne year -5438 ii	n astronomical co	unting style is the year	5439 BCE in historical of	counting style.	
max. Earth dist.	-5438 Oct 04 j 10:27	1° m 50'36	31.29619 AU	conjunction	-5431 Oct 19 j 04:58	17° Mp 06′28	2°06'07
morning rise	-5438 Oct 19 j 15:04	2° Mp 24'48		minimum elong	-5431 Oct 19 j 04:58	17° m 06'28	2°06'12
retrograde	-5437 Jan 16 j 00:15	4° Mp 19′29		max. Earth dist.	-5431 Oct 19 j 08:09	17° Mp 06'46	31.25971 AU
opposition	-5437 Apr 05 j 22:40		2°26'31	morning rise	-5431 Nov 03 j 06:57	17° Mp 40'28	
min. Earth dist.	-5437 Apr 06 j 02:27		29.29479 AU	retrograde	-5430 Jan 31 j 07:18	19° m 36'08	
direct	-5437 Jun 25 j 12:46	1° m)33'14		opposition	-5430 Apr 21 j 17:29	18° m 13'02	2°13'28
evening set	-5437 Sep 21 j 22:10	3° m) 27'38		min. Earth dist.	-5430 Apr 21 j 14:27		29.25743 AU
	*	· · · · · · · · · · · · · · · · · · ·		direct	-5430 Jul 10 j 18:40	16° Mp 49'56	
conjunction	-5437 Oct 06 j 23:12	4° Mp 01'29	2°16'35	evening set	-5430 Oct 06 j 12:33	18° m) 43'45	
minimum elong	-5437 Oct 06 j 23:12		2°16'45	evening sec	5 150 Oct 00 j 12.55	10 10 15 15	
max. Earth dist.	-5437 Oct 06 j 20:28	-	31.29015 AU	conjunction	-5430 Oct 21 j 14:04	19° m 17'42	2002142
	·		31.29013 AU	minimum elong		19° My 17'42	
morning rise	-5437 Oct 22 j 00:00	4° Mp 35'20		Č	-5430 Oct 21 j 14:05		
retrograde	-5436 Jan 18 j 10:53	6° Mp 30'08	2025116	max. Earth dist.	-5430 Oct 21 j 17:19		31.25193 AU
opposition	-5436 Apr 07 j 11:30	5° m, 07'20		morning rise	-5430 Nov 05 j 16:26	19° m 51'44	
min. Earth dist.	-5436 Apr 07 j 12:59		29.28910 AU	retrograde	-5429 Feb 02 j 20:55	21° m 47'31	
direct	-5436 Jun 27 j 01:37	3° m 43'51		opposition	-5429 Apr 24 j 06:37	20° m 24'21	2°10'48
evening set	-5436 Sep 23 j 06:57	5° m ,38′09		min. Earth dist.	-5429 Apr 24 j 01:56	20° Mg 24'40	29.24882 AU
				direct	-5429 Jul 13 j 05:53	19° m 01'16	
conjunction	-5436 Oct 08 j 07:56	6°My12'01	2°15'20	evening set	-5429 Oct 08 j 21:37	20° m 54'59	
minimum elong	-5436 Oct 08 j 07:57	6° Mp 12′01	2°15'28				
max. Earth dist.	-5436 Oct 08 j 06:01	6° Mp 11'50	31.28486 AU	conjunction	-5429 Oct 23 j 23:21	21° m 28'58	2°01'08
morning rise	-5436 Oct 23 j 08:57	6° Mp 45′53		minimum elong	-5429 Oct 23 j 23:22	21° m 28'58	2°01'12
retrograde	-5435 Jan 19 j 22:17	8° Mp 40'49		max. Earth dist.	-5429 Oct 24 j 03:31	21°m 29'21	31.24261 AU
opposition	-5435 Apr 10 j 00:28		2°23'49	morning rise	-5429 Nov 08 j 02:02	22° m 03'02	
min. Earth dist.	-5435 Apr 10 j 01:41	-	29.28420 AU	retrograde	-5428 Feb 05 j 08:14	23° m 58'56	
direct	-5435 Jun 29 j 12:29	5° Mp 54'33	27.20 120 110	opposition	-5428 Apr 25 j 19:51	22° m/35'39	2°07'57
evening set	-5435 Sep 25 j 15:46	7° Mp 48'46		min. Earth dist.	-5428 Apr 25 j 15:33		29.23884 AU
evening set	-3433 Sep 23 j 13.40	/ 11/4640					29.23004 AU
	5425.0 + 10:16.52	00, 70, 20, 20, 20	2012152	direct	-5428 Jul 14 j 17:01	21° m 12'35	
conjunction	-5435 Oct 10 j 16:53		2°13'52	evening set	-5428 Oct 10 j 06:32	23°Mp06'12	
minimum elong	-5435 Oct 10 j 16:53		2°14'00				
max. Earth dist.	-5435 Oct 10 j 16:40		31.28030 AU	conjunction	-5428 Oct 25 j 08:34	23° m 40'11	1°58'22
morning rise	-5435 Oct 25 j 17:56	8° Mp 56′32		minimum elong	-5428 Oct 25 j 08:34	23° Mp 40'11	1°58'26
retrograde	-5434 Jan 22 j 08:28	10° m 51'36		max. Earth dist.	-5428 Oct 25 j 13:40	23° Mp 40'40	31.23221 AU
opposition	-5434 Apr 12 j 13:12	9° ™ 28'43	2°22'10	morning rise	-5428 Nov 09 j 11:36	24° M p 14'18	
min. Earth dist.	-5434 Apr 12 j 12:41	9° ™ 28'45	29.27967 AU	retrograde	-5427 Feb 06 j 20:04	26° Mp 10'18	
direct	-5434 Jul 02 j 00:35	8° Mp 05'21		opposition	-5427 Apr 28 j 08:52	24° Mp 46'55	2°04'55
evening set	-5434 Sep 28 j 00:43	9° m 59'30		min. Earth dist.	-5427 Apr 28 j 02:44	24° m 47'19	29.22785 AU
•				direct	-5427 Jul 17 j 06:11	23° m 23'50	
conjunction	-5434 Oct 13 j 01:43	10° Mp 33′23	2°12'13	evening set	-5427 Oct 12 j 15:32	25° m 17'20	
minimum elong	-5434 Oct 13 j 01:44	-	2°12'21	8	,		
max. Earth dist.	-5434 Oct 13 j 01:38	•	31.27592 AU	conjunction	-5427 Oct 27 j 17:43	25° m 51'21	1°55'27
morning rise	-5434 Oct 28 j 03:07	11° Mp 07'19	31.27372110	minimum elong	-5427 Oct 27 j 17:43	25° m 51'21	1°55'30
retrograde	-5433 Jan 24 j 20:05	13° Mp 02'31		max. Earth dist.	-5427 Oct 27 j 17:45		31.22096 AU
opposition	-5433 Apr 15 j 02:16	11° m) 39'36	2°20'17	morning rise	-5427 Nov 11 j 21:13	26° m/25'30	31.22070 AC
**				•	•		
min. Earth dist.	-5433 Apr 15 j 01:09		29.27528 AU	retrograde	-5426 Feb 09 j 08:04	28° m 21'36	2001142
direct	-5433 Jul 04 j 10:07	10° mp 16'19		opposition	-5426 Apr 30 j 21:53	26° m 58'06	
evening set	-5433 Sep 30 j 09:27	12° m 10'22		min. Earth dist.	-5426 Apr 30 j 15:45		29.21655 AU
	5400 C 15111	100=	2010155	direct	-5426 Jul 19 j 17:26	25° m 35'02	
conjunction	-5433 Oct 15 j 10:41	12° Mp 44'16	2°10'22	evening set	-5426 Oct 15 j 00:23	27° m 28'25	
minimum elong	-5433 Oct 15 j 10:41		2°10'29				
max. Earth dist.	-5433 Oct 15 j 12:38	12° m 44'28	31.27137 AU	conjunction	-5426 Oct 30 j 02:57	28° Mp 02'27	1°52'22
morning rise	-5433 Oct 30 j 12:07	13° m) 18'13		minimum elong	-5426 Oct 30 j 02:58	28° Mp 02'28	1°52'24
retrograde	-5432 Jan 27 j 06:37	15° Mp 13'36		max. Earth dist.	-5426 Oct 30 j 10:15	28° Mp 03'09	31.20982 AU
opposition	-5432 Apr 16 j 15:23	13° m 50'37	2°18'13	morning rise	-5426 Nov 14 j 06:42	28°M 36'39	
min. Earth dist.	-5432 Apr 16 j 13:27	13° m 50'45	29.27034 AU		-5426 Dec 28 j 13:20	0∘ ত	
direct	-5432 Jul 05 j 21:14	12° m 27'25		retrograde	-5425 Feb 11 j 18:22	0° ჲ 32'50	
evening set	-5432 Oct 01 j 18:33	14° mp 21'24		-	-5425 Mar 30 j 19:42	30°R, Mp	
<i>5</i>		A		opposition	-5425 May 03 j 10:53	29° Mp 09'14	1°58'20
conjunction	-5432 Oct 16 j 19:44	14° m) 55'18	2°08'20	min. Earth dist.	-5425 May 03 j 02:52		29.20555 AU
minimum elong	-5432 Oct 16 j 19:44		2°08'26	direct	-5425 Jul 22 j 05:56	29 m/0947 27° m/46'11	27.20333 AU
_	-				-		
max. Earth dist.	-5432 Oct 16 j 21:28		31.26613 AU	evening set	-5425 Oct 17 j 09:18	29° m 39'28	
morning rise	-5432 Oct 31 j 21:35	15° Mp 29'17			-5425 Oct 26 j 13:03	0∘ ⊽	
retrograde	-5431 Jan 28 j 19:46	17° m) 24'48	201555		E40E31 01:11:1	00.010:00	1040100
opposition	-5431 Apr 19 j 04:19	16° Mp 01'47		conjunction	-5425 Nov 01 j 11:59	0° £ 13'32	
min. Earth dist.	-5431 Apr 19 j 01:19		29.26460 AU	minimum elong	-5425 Nov 01 j 11:59	0° ≙ 13'32	
direct	-5431 Jul 08 j 06:52	14° m 38'38		max. Earth dist.	-5425 Nov 01 j 19:29		31.19929 AU
evening set	-5431 Oct 04 j 03:30	16° Mp 32'32		morning rise	-5425 Nov 16 j 16:20	0° £ 47'46	

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 38							
•	nical year style is used: Th		-	* **			
retrograde	-5424 Feb 14 j 05:55	2° - 44′05		conjunction	-5418 Nov 16 j 06:27	15° ≏ 34'48	1°22'09
opposition	-5424 May 04 j 23:58	1° ≏ 20′23	1°54'47	minimum elong	-5418 Nov 16 j 06:28	15° ≏ 34'48	1°22'05
min. Earth dist.	-5424 May 04 j 15:10	1° £ 20'59	29.19552 AU	max. Earth dist.	-5418 Nov 16 j 20:26	15° ≏ 36′07	31.14282 AU
	-5424 Jul 10 j 23:28	30°R ™		morning rise	-5418 Dec 01 j 14:13	16° ♀ 09'22	
direct	-5424 Jul 23 j 15:48	29° m 57'21		retrograde	-5417 Mar 01 j 22:50	18° ≏ 06'37	
	-5424 Aug 05 j 03:24	0∘ ⊽		opposition	-5417 May 21 j 18:59	16° ≏ 42'34	1°25'25
evening set	-5424 Oct 18 j 18:11	1° ≏ 50'33		min. Earth dist.	-5417 May 21 j 04:36	16° £ 43'32	29.13880 AU
Č	,			direct	-5417 Aug 08 j 19:13	15° ≏ 19'52	
conjunction	-5424 Nov 02 j 21:21	2° £ 24'39	1°45'43	evening set	-5417 Nov 03 j 10:35	17° ≏ 12'39	
minimum elong	-5424 Nov 02 j 21:22	2° ₽ 24'39	1°45'44	Č	v		
max. Earth dist.	-5424 Nov 03 j 07:04	2° ჲ 25'35	31.18977 AU	conjunction	-5417 Nov 18 j 16:26	17° ≏ 47'01	1°17'46
morning rise	-5424 Nov 18 j 01:59	2° ≏ 58'56		minimum elong	-5417 Nov 18 j 16:27	17° ≏ 47'01	1°17'42
retrograde	-5423 Feb 15 j 16:14	4° £ 55'22		max. Earth dist.	-5417 Nov 19 j 07:48	17° ≏ 48'28	31.13302 AU
opposition	-5423 May 07 j 12:47	3° ჲ 31'37	1°51'03	morning rise	-5417 Dec 04 j 00:38	18° ≏ 21'38	
min. Earth dist.	-5423 May 07 j 02:52	3° ჲ 32'17	29.18642 AU	retrograde	-5416 Mar 03 j 09:49	20° ≏ 18'59	
direct	-5423 Jul 26 j 02:41	2° ჲ 08'37		opposition	-5416 May 23 j 08:01	18° ≏ 54'51	1°20'40
evening set	-5423 Oct 21 j 03:13	4° ≏ 01'45		min. Earth dist.	-5416 May 22 j 16:21		29.12823 AU
Č	,			direct	-5416 Aug 10 j 07:51	17° ≏ 32'10	
conjunction	-5423 Nov 05 j 06:34	4° £ 35'53	1°42'09	evening set	-5416 Nov 04 j 20:15	19° ≏ 24'51	
minimum elong	-5423 Nov 05 j 06:35	4° £ 35'53		8			
max. Earth dist.	-5423 Nov 05 j 16:25		31.18131 AU	conjunction	-5416 Nov 20 j 02:24	19° Ω 59'15	1°13'16
morning rise	-5423 Nov 20 j 11:49	5° £ 10'12		minimum elong	-5416 Nov 20 j 02:25	19° £ 59'15	
retrograde	-5422 Feb 18 j 05:31	7° £ 06'47		max. Earth dist.	-5416 Nov 20 j 17:16		31.12198 AU
opposition	-5422 May 10 j 01:44	5° £ 42'59	1°47'10	morning rise	-5416 Dec 05 j 11:21	20° £ 33'55	31.12170110
min. Earth dist.	-5422 May 09 j 14:23		29.17838 AU	retrograde	-5415 Mar 05 j 22:09	22° £ 31'21	
direct	-5422 Jul 28 j 12:09	4° £ 20'03	27.17030110	opposition	-5415 May 25 j 20:55	21° ♀ 07'06	1°15'47
evening set	-5422 Oct 23 j 12:04	6° £ 13'06		min. Earth dist.	-5415 May 25 j 05:13		29.11671 AU
e venning see	0.22 000 20 j 12.0 .	0 —15 00		direct	-5415 Aug 12 j 18:37	19° £ 44'24	27.11071110
conjunction	-5422 Nov 07 j 15:52	6° £ 47'16	1°38'27	evening set	-5415 Nov 07 j 05:45	21° Ω 36'59	
minimum elong	-5422 Nov 07 j 15:53	6° £ 47'16	1°38'26	evening set	5 115 110 t 07 j 05.15	21 -3037	
max. Earth dist.	-5422 Nov 08 j 03:33		31.17360 AU	conjunction	-5415 Nov 22 j 12:32	22° £ 11'26	1°08'39
morning rise	-5422 Nov 22 j 21:28	7° £ 21'39	31.17300710	minimum elong	-5415 Nov 22 j 12:32	22° £ 11'26	1°08'34
retrograde	-5421 Feb 20 j 17:08	9° ₽ 18'23		max. Earth dist.	-5415 Nov 23 j 05:05		31.11012 AU
opposition	-5421 May 12 j 14:50	7° £ 54'31	1°43'07	morning rise	-5415 Dec 07 j 21:53	22° £ 46'09	31.11012110
min. Earth dist.	-5421 May 12 j 03:04		29.17088 AU	retrograde	-5414 Mar 08 j 08:52	24° £ 43'38	
direct	-5421 Jul 30 j 23:01	6° £ 31'39	29.17000710	opposition	-5414 May 28 i 09:51	23° ♀ 19'17	1°10'48
evening set	-5421 Oct 25 j 21:11	8° £ 24'40		min. Earth dist.	-5414 May 27 j 17:27		29.10455 AU
e venning see	5 121 Oct 25 j 21.11	0 -21 10		direct	-5414 Aug 15 j 06:48	21° ⊆ 56'34	29.10 133 110
conjunction	-5421 Nov 10 j 01:18	8° ≏ 58'52	1°34'35	evening set	-5414 Nov 09 j 15:14	23° Ω 49'03	
minimum elong	-5421 Nov 10 j 01:19	8° ≏ 58'52		evening set	51111101 07 j 15.11	23 - 17 03	
max. Earth dist.	-5421 Nov 10 j 13:28		31.16647 AU	conjunction	-5414 Nov 24 j 22:21	24° ≏ 23'32	1°03'56
morning rise	-5421 Nov 25 j 07:29	9° £ 33'17	31.10017 110	minimum elong	-5414 Nov 24 j 22:22	24° £ 23'32	
retrograde	-5420 Feb 23 j 07:11	11° ⊆ 30'10		max. Earth dist.	-5414 Nov 25 j 14:50		31.09807 AU
opposition	-5420 May 14 j 03:45	10° ⊆ 06'16	1°38'54	morning rise	-5414 Dec 10 j 08:25	24° £ 58'17	31.07007 110
min. Earth dist.	-5420 May 13 j 14:14		29.16374 AU	retrograde	-5413 Mar 10 j 21:41	26° £ 55'52	
direct	-5420 Aug 01 i 08:52	8° £ 43'27	29.10371110	opposition	-5413 May 30 j 22:46	25° ⊆ 31'24	1°05'43
evening set	-5420 Oct 27 j 06:22	10° £ 36'25		min. Earth dist.	-5413 May 30 j 05:16		29.09266 AU
2. J	5.25 56t 27 j 00.22	— 50 25		direct	-5413 Aug 17 j 17:05	24° ⊆ 08'38	27.07200710
conjunction	-5420 Nov 11 j 10:53	11° ≏ 10'40	1°30'34	evening set	-5413 Nov 12 j 00:49	26° ⊆ 01'03	
minimum elong	-5420 Nov 11 j 10:54	11° ⊆ 10'40	1°30'32		2 2 1.07 12 j 00.77	0103	
max. Earth dist.	-5420 Nov 12 j 00:00		31.15922 AU	conjunction	-5413 Nov 27 j 08:30	26° £ 35'34	0°59'08
morning rise	-5420 Nov 26 j 17:35	11° ⊆ 45'08	31.13/22 110	minimum elong	-5413 Nov 27 j 08:30	26° ⊆ 35'34	0°59'01
retrograde	-5419 Feb 24 j 19:25	13° ⊆ 42'09		max. Earth dist.	-5413 Nov 28 j 02:32		31.08642 AU
opposition	-5419 May 16 j 16:52	12° ⊆ 18'13	1°34'33	morning rise	-5413 Dec 12 j 19:04	20° ⊆ 3710	31.000-12710
min. Earth dist.	-5419 May 16 j 03:44		29.15628 AU	retrograde	-5412 Mar 12 j 08:19	29° ⊆ 08'01	
direct	-5419 Aug 03 j 19:07	12 = 1900 10° ⊆ 55'28	27.13020 AU	opposition	-5412 Jun 01 j 11:34	27° £ 43'28	1°00'32
evening set	-5419 Oct 29 j 15:41	12° ⊆ 48'22		min. Earth dist.	-5412 May 31 j 17:49		29.08143 AU
o ronning set	5117 Oct 27 j 15.41	12 -70 22		direct	-5412 Aug 19 j 03:53	26° £ 20'41	27.00173 AU
conjunction	-5419 Nov 13 j 20:38	13° ჲ 22'39	1°26'26	evening set	-5412 Nov 13 j 10:29	28° £ 13'02	
minimum elong	-5419 Nov 13 j 20:39	13° ⊆ 22'39	1°26'22	Croning set	5-12 110v 15 J 10.29	20 -13 02	
max. Earth dist.	-5419 Nov 14 j 10:43		31.15153 AU	conjunction	-5412 Nov 28 j 18:39	28° ≏ 47'35	0°54'15
morning rise	-5419 Nov 29 j 03:46	13° £ 23 39 13° £ 57'10	51.15135 AU	minimum elong	-5412 Nov 28 j 18:39	28° £ 47'35	0°54'07
retrograde	-5418 Feb 27 j 08:57	15° £ 57'10		max. Earth dist.	-5412 Nov 29 j 13:11		31.07581 AU
opposition	-5418 May 19 j 05:46	13 ≗ 34 18 14° £ 30'20	1°30'03	morning rise	-5412 Nov 29 j 15.11 -5412 Dec 14 j 05:51	28 ≗ 49 20 29° £ 22'26	31.0/301 AU
min. Earth dist.	-5418 May 18 j 15:01		29.14805 AU	morning 1150	-5412 Dec 31 j 23:23	0°M	
direct	-5418 Aug 06 j 08:06	14 ≗ 31 20 13° ₽ 07'37	27.17003 AU	retrograde	-5411 Mar 14 j 21:49	1°ML20'11	
evening set	-5418 Nov 01 j 01:12	15° £ 0/'3/ 15° £ 00'28		renograde	-5411 Mar 14 J 21:49 -5411 Jun 01 j 06:59	30°R ≏	
evening set	5-10 110V 01 J 01.12	15 -00 20			5-11 Juli 01 J 00.59	50 I <u>V</u>	

Planetary Phenomena of Neptune from -5900 through -5398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5411 in astronomical counting style is the year 5412 BCE in historical counting style. -5411 Jun 03 i 04:45 29°**♀**56'53 29.07132 AU minimum elong -5405 Dec 14 i 20:58 14°ML16'20 0°17'50 min. Earth dist. 14°M18'28 31.01927 AU -5411 Jun 04 i 00:17 29°**£**55'33 0°55'16 -5405 Dec 15 j 19:23 opposition max Earth dist -5411 Aug 21 j 13:47 28°**£**32'46 -5405 Dec 30 j 12:21 14°ML51'35 direct morning rise -5411 Nov 04 j 04:26 o°m. -5404 Jan 03 j 08:25 15°M. 0° M25'04 -5404 Mar 30 j 18:29 evening set -5411 Nov 15 j 20:13 retrograde 16°M50'03 -5404 Jun 19 j 17:36 opposition 15°M25'13 0°16'18 -5411 Dec 01 j 04:49 conjunction 0°**M**59'40 0°49'16 min. Earth dist. -5404 Jun 18 j 19:07 15°M26'46 29.01472 AU -5411 Dec 01 j 04:49 minimum elong 0°M59'40 0°49'08 -5404 Jul 05 j 06:38 15°RM 14°M02'39 max. Earth dist. -5411 Dec 02 j 00:16 1°ML01'30 31.06618 AU direct -5404 Sep 05 j 19:36 morning rise -5411 Dec 16 j 16:36 1°M34'34 -5404 Nov 03 j 21:23 15°M retrograde -5410 Mar 17 j 10:03 3° MJ32'25 evening set -5404 Nov 30 j 20:01 15°M54'54 opposition -5410 Jun 06 j 13:05 2°ML07'43 0°49'54 -5404 Dec 16 j 08:15 min. Earth dist. -5410 Jun 05 j 17:44 2°M09'03 29.06227 AU conjunction 16°**M**29'48 0°12'41 direct -5410 Aug 23 j 23:49 0°M44'59 minimum elong -5404 Dec 16 j 08:15 16°**™**29'48 0°12'28 evening set -5410 Nov 18 j 05:59 2° M $_{3}7'15$ behind sun begin -5404 Dec 16 j 04:01 16°M29'25 behind sun end -5404 Dec 16 j 12:29 16°MJ30'11 conjunction -5410 Dec 03 j 15:11 3°M11'53 0°44'13 max. Earth dist. -5404 Dec 17 j 07:24 16°**™**31'59 31.00921 AU minimum elong -5410 Dec 03 j 15:11 3°ML11'53 0°44'04 morning rise -5403 Jan 01 j 00:09 17°ML05'05 max. Earth dist. -5410 Dec 04 j 11:55 3°ML13'50 31.05781 AU retrograde -5403 Apr 02 j 05:14 19°ML03'38 morning rise -5410 Dec 19 j 03:29 3°M46'51 min. Earth dist. -5403 Jun 21 j 08:19 17°M40'15 29.00405 AU retrograde -5409 Mar 20 j 00:09 5°M44'47 opposition -5403 Jun 22 j 06:22 17°MJ38'44 0°10'33 min. Earth dist. -5409 Jun 08 i 04:39 4°M21'31 29.05428 AU direct -5403 Sep 08 i 06:37 16°M16'09 -5409 Jun 09 i 01:48 4°M20'04 0°44'27 evening set -5403 Dec 03 j 06:41 18°ML08'22 opposition direct -5409 Aug 26 i 11:59 2°M57'21 -5409 Nov 20 j 15:56 4°M49'36 conjunction -5403 Dec 18 i 19:25 18°ML43'18 0°07'19 evening set -5403 Dec 18 i 19:26 18°M43'18 0°07'06 minimum elong -5409 Dec 06 j 01:31 5°ML24'18 0°39'05 -5403 Dec 18 j 13:28 conjunction behind sun begin 18°M,42'46 -5409 Dec 06 j 01:31 -5403 Dec 19 j 01:24 5°M-24'18 0°38'56 behind sun end 18°M-43'51 minimum elong -5409 Dec 06 j 22:19 -5403 Dec 19 j 18:26 max. Earth dist. 5°M26'15 31.05021 AU max. Earth dist. 18°M45'29 30.99817 AU -5409 Dec 21 j 14:35 5°M59'19 -5402 Jan 03 j 11:55 morning rise 19°ML18'38 morning rise -5408 Mar 21 j 14:23 -5402 Apr 04 j 18:56 7°**IL**57'22 retrograde 21°M17'14 retrograde -5402 Jun 24 j 18:57 -5408 Jun 10 j 14:40 6°M32'38 0°38'56 19°M52'16 0°04'48 opposition opposition min. Earth dist. -5408 Jun 09 j 17:52 6°M34'03 29.04698 AU min. Earth dist. -5402 Jun 23 j 19:51 19°M53'51 28.99261 AU -5408 Aug 27 j 22:21 5°M09'58 -5402 Sep 10 j 16:46 direct direct 18°M29'37 -5402 Dec 05 j 17:30 evening set -5408 Nov 22 j 02:00 7°**IL**02'13 evening set 20°M21'48 20°ML56'47 0°01'55 -5408 Dec 07 j 12:15 -5402 Dec 21 j 06:43 conjunction 7°M36'57 0°33'54 conjunction -5408 Dec 07 j 12:16 7°M36'57 0°33'43 minimum elong -5402 Dec 21 j 06:42 20°M56'47 0°01'41 minimum elong max. Earth dist. -5408 Dec 08 j 10:33 7°M39'03 31.04309 AU behind sun begin -5402 Dec 21 j 00:14 20°M56'12 -5408 Dec 23 j 01:45 8°M12'01 behind sun end -5402 Dec 21 j 13:10 20°M57'22 morning rise retrograde -5407 Mar 24 j 02:38 10°M10'11 max. Earth dist. -5402 Dec 22 j 06:03 20°M58'59 30.98648 AU -5407 Jun 12 j 05:14 8°M46'56 29.03980 AU -5401 Jan 05 j 23:47 21°M32'09 min. Earth dist. morning rise -5407 Jun 13 j 03:13 8°ML45'26 0°33'21 -5401 Apr 07 j 06:43 23°M30'48 opposition retrograde 7°M22'49 -5407 Aug 30 j 10:24 -5401 Apr 27 j 02:02 23°M24'38 direct desc. node -5407 Nov 24 j 12:23 9°M15'04 -5401 Jun 26 j 09:12 22°M07'17 28.98095 AU evening set min. Earth dist. opposition -5401 Jun 27 i 07:34 22°M05'44 -0°00'58 -5407 Dec 09 i 22:57 conjunction 9°M49'51 0°28'39 direct -5401 Sep 13 i 03:10 20°M43'03 minimum elong -5407 Dec 09 i 22:57 9°M49'51 0°28'28 evening set -5401 Dec 08 i 04:15 22°M35'12 max. Earth dist. -5407 Dec 10 j 20:40 9°ML51'54 31.03586 AU -5407 Dec 25 j 13:12 10°ML24'59 -5401 Dec 23 j 18:05 23°ML10'13 -0°03'36 morning rise conjunction -5406 Mar 26 j 16:43 12°M23'16 -5401 Dec 23 i 18:05 23°ML10'13 0°03'50 retrograde minimum elong -5406 Jun 15 j 16:04 10°M58'30 0°27'42 behind sun begin -5401 Dec 23 j 11:42 23°ML09'39 opposition 11°ML00'00 29.03239 AU -5401 Dec 24 j 00:29 min. Earth dist. -5406 Jun 14 j 18:12 behind sun end 23°M,10'48 direct -5406 Sep 01 j 21:01 9°M35'55 max. Earth dist. -5401 Dec 24 j 18:19 23°M12'30 30.97500 AU -5406 Nov 26 j 22:38 11°M28'10 morning rise -5400 Jan 08 j 11:41 23°M45'37 evening set retrograde -5400 Apr 08 j 20:25 25°M-44'18 -5400 Jun 28 j 19:57 conjunction -5406 Dec 12 j 09:52 12°M03'00 0°23'21 opposition 24°M19'10 -0°06'44 -5406 Dec 12 j 09:52 12°M03'00 0°23'10 -5400 Jun 27 j 20:15 24°M20'48 28.96968 AU minimum elong min. Earth dist. -5406 Dec 13 j 09:02 -5400 Sep 14 j 15:32 22°M56'25 max. Earth dist. 12°M05'11 31.02805 AU direct -5400 Dec 09 j 15:21 24°M48'34 morning rise -5406 Dec 28 j 00:31 12°M38'11 evening set retrograde -5405 Mar 29 j 05:00 14°M36'34 min. Earth dist. -5405 Jun 17 j 06:45 13°M13'18 29.02407 AU conjunction -5400 Dec 25 j 05:31 25°M23'37 -0°08'58 opposition -5405 Jun 18 j 04:54 13°ML11'47 0°22'01 minimum elong -5400 Dec 25 j 05:31 25°M23'37 0°09'13 direct -5405 Sep 04 j 09:12 11°ML49'14 behind sun begin -5400 Dec 25 j 00:02 25°M23'07 evening set -5405 Nov 29 j 09:19 13°M41'28 behind sun end -5400 Dec 25 j 10:59 25°M24'07 -5400 Dec 26 j 05:25 25°M25'52 30.96403 AU max. Earth dist. -5405 Dec 14 j 20:58 14°M16'20 0°18'02 -5399 Jan 09 j 23:45 25°M59'04 conjunction morning rise

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Attention, astronomical year style is used: The year -5399 in astronomical counting style is the year 5400 BCE in historical counting style.

retrograde -5399 Apr 11 j 09:48 27° ML 57'47

 $\mbox{min. Earth dist.} \qquad \mbox{-5399 Jun} \quad \mbox{30 j } 09:09 \quad \mbox{26°ML34'10} \quad 28.95930 \mbox{ AU}$

opposition $-5399 \text{ Jul } 01 \text{ j } 08:17 \quad 26^{\circ}\text{M-}32'34 \quad -0^{\circ}12'30$

 direct
 -5399 Sep 17 j 01:31
 25° TL09'46

 evening set
 -5399 Dec 12 j 02:16
 27° TL01'55

conjunction -5399 Dec 27 j 17:05 27° M37'01 -0°14'20 minimum elong -5399 Dec 27 j 17:06 27° M37'01 0°14'34

behind sun begin -5399 Dec 27 j 14:16 27° 11.36'46 behind sun end -5399 Dec 27 j 19:55 27° 11.37'16

max. Earth dist. -5399 Dec 28 j 18:26 27° ML39'24 30.95418 AU