Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2400 in astronomical counting style is the year 2401 BCE in historical counting style. -2400 Mar 16 j 05:35 20° **★** 48'37 conjunction -2394 Apr 15 j 21:27 4°Υ53'29 -2°03'12 evening set -2394 Apr 15 j 21:27 4°Υ53'29 2°03'12 minimum elong -2400 Apr 01 j 07:43 21°\ 24'25 -2°05'25 -2394 Apr 16 j 09:30 4°Υ54'36 30.85127 AU max. Earth dist. conjunction -2394 May 02 j 03:21 -2400 Apr 01 j 07:43 5°Y29'32 21°\ 24'25 2°05'25 minimum elong morning rise 7°**Y**26′59 -2394 Jul 31 j 16:02 max. Earth dist. -2400 Apr 02 j 00:53 21°**₭**26'01 30.84171 AU retrograde -2400 Apr 17 j 12:06 -2394 Oct 18 j 07:50 6°Υ02'01 -2°11'12 morning rise 22°**H**00'26 opposition 6°**Υ**02'43 28.85511 AU retrograde -2400 Jul 17 j 15:35 23°**)** 58'42 min. Earth dist. -2394 Oct 17 j 21:55 4°**Υ**37'37 opposition -2400 Oct 04 j 14:53 22°\(\mathbf{X}\)33'36 -2°14'11 direct -2393 Jan 03 j 23:33 min. Earth dist. -2400 Oct 04 j 00:06 22°\(\dagger)34'39 28.84381 AU evening set -2393 Apr 02 j 07:09 6°**Y**32'07 direct -2400 Dec 21 j 02:17 21°\(\overline{H}\) 09'37 evening set -2399 Mar 18 j 19:37 23°**)**€03'48 conjunction -2393 Apr 18 j 11:51 7°**Υ**'08'02 -2°02'11 -2393 Apr 18 j 11:51 minimum elong 7°**Υ**'08'02 2°02'10 -2393 Apr 18 j 23:11 conjunction -2399 Apr 03 j 21:58 23°\dagger39'37 -2°05'31 max. Earth dist. 7°**Υ**09'05 30.85642 AU minimum elong -2399 Apr 03 j 21:59 23°**₭**39'37 2°05'31 morning rise -2393 May 04 j 17:57 7°**Υ**44'05 max. Earth dist. -2399 Apr 04 j 13:05 23°\dagger41'02 30.84271 AU retrograde -2393 Aug 03 j 05:46 9°**Υ**41'25 morning rise -2399 Apr 20 j 02:47 24° ¥ 15'39 opposition -2393 Oct 20 j 18:26 8°Y16'32 -2°10'00 retrograde -2399 Jul 20 j 04:19 26°**¥**13'47 min. Earth dist. -2393 Oct 20 j 08:06 8°Υ17'16 28.86083 AU 24°**)**(48'41 -2°14'11 opposition -2399 Oct 07 j 01:57 direct -2392 Jan 06 j 12:49 6°Y52'07 min. Earth dist. -2399 Oct 06 j 12:28 24°**)**(49'39 28.84463 AU evening set -2392 Apr 03 j 21:13 8°Y46'43 direct -2399 Dec 23 j 12:24 23°**)** 24'37 evening set -2398 Mar 21 j 09:23 25°¥18'50 conjunction -2392 Apr 20 j 02:07 9°Y22'38 -2°00'58 minimum elong -2392 Apr 20 j 02:07 9°**Y**22'38 2°00'57 -2398 Apr 06 i 12:19 25°**)** 54'40 -2°05'26 max. Earth dist. -2392 Apr 20 j 12:23 9°**Υ**23'36 30.86274 AU conjunction -2398 Apr 06 i 12:19 25°**)** 54'40 2°05'26 -2392 May 06 i 08:27 9°Y58'42 minimum elong morning rise max. Earth dist. -2398 Apr 07 i 03:37 25°\\$56'06 30.84337 AU retrograde -2392 Aug 04 j 18:17 11°Y55'56 -2398 Apr 22 j 17:14 26°\ 30'43 -2392 Oct 22 j 05:07 10°**Y**'31'08 -2°08'36 opposition morning rise -2398 Jul 22 j 14:59 28°\ 28'42 -2392 Oct 21 j 20:24 10°**Y**31'45 28.86771 AU min. Earth dist. retrograde -2398 Oct 09 j 12:52 27°\circ 03'37 -2°14'00 9°Y06'43 direct -2391 Jan 07 j 23:26 opposition -2398 Oct 09 j 00:01 -2391 Apr 06 j 11:13 11°Y01'25 min. Earth dist. 27°**H**04'32 28.84516 AU evening set 25°**)** € 39'28 -2398 Dec 26 j 00:59 direct 11°**Υ**37'22 -1°59'33 -2391 Apr 22 j 16:35 -2397 Mar 23 j 23:28 27°**)** 33'44 conjunction evening set -2391 Apr 22 j 16:35 11°**Υ**37'22 1°59'32 minimum elong -2391 Apr 23 j 02:47 -2397 Apr 09 j 02:38 28°****09'34 -2°05'09 11°**Υ**38'19 30.87013 AU conjunction max. Earth dist. -2397 Apr 09 j 02:39 -2391 May 08 j 22:59 12°**Y**13′27 minimum elong 28°\(\mathbf{H}\) 09'34 2°05'09 morning rise -2397 Apr 09 j 15:59 -2391 Aug 07 j 08:10 14°**Y**10'33 max. Earth dist. 28°**₭**10'49 30.84410 AU retrograde 12°**Υ**45'52 -2°07'00 -2397 Apr 25 j 07:58 -2391 Oct 24 j 15:38 morning rise 28°**)** 45'37 opposition $0^{\circ}\Upsilon$ -2391 Oct 24 j 07:04 12°**Υ**46'28 28.87524 AU -2397 Jun 02 j 21:29 min. Earth dist. retrograde -2397 Jul 25 j 03:31 0°Y43'27 direct -2390 Jan 10 j 12:18 11°**Υ**21'28 -2397 Sep 16 j 11:05 30°**₹**₩ -2390 Apr 09 j 01:26 13°Y16'15 evening set -2397 Oct 11 j 23:36 29°\ 18'23 -2°13'36 opposition -2397 Oct 11 j 11:19 29°**升**19'16 28.84613 AU conjunction -2390 Apr 25 j 06:58 13°**Y**52'14 -1°57'58 min. Earth dist. -2397 Dec 28 j 11:58 27° **)** 54'09 -2390 Apr 25 j 06:58 13°**Y**′52'14 1°57'57 direct minimum elong -2396 Mar 25 j 13:24 29°\ 48'28 -2390 Apr 25 j 15:11 13°Υ53'00 30.87778 AU evening set max. Earth dist. -2396 Mar 30 j 19:29 $0^{\circ}\Upsilon$ -2390 May 11 j 13:43 14°**Y**28′19 morning rise -2390 Aug 09 j 20:59 16°**Y**25′20 retrograde 0°**Υ**'24'19 -2°04'42 -2390 Oct 27 i 02:20 15°**Υ**'00'44 -2°05'12 conjunction -2396 Apr 10 j 17:02 opposition 15°**Υ**01'15 28.88280 AU minimum elong -2396 Apr 10 j 17:02 0°**Υ**24'19 2°04'42 min. Earth dist. -2390 Oct 26 i 19:13 max. Earth dist. -2396 Apr 11 i 06:39 0°**Υ**25'35 30.84534 AU direct -2389 Jan 12 j 22:31 13°Y36'21 morning rise -2396 Apr 26 j 22:27 evening set -2389 Apr 11 j 15:43 15°**Y**31'13 -2396 Jul 26 j 14:36 2°Y58'04 retrograde -2396 Oct 13 j 10:26 1°Y33'01 -2°13'00 -2389 Apr 27 j 21:43 16°**Y**07'13 -1°56'12 opposition conjunction min. Earth dist. -2396 Oct 12 j 23:19 1°**Υ**33'48 28.84781 AU -2389 Apr 27 j 21:43 16°**Y**07'13 1°56'10 minimum elong 0°Y08'42 -2389 Apr 28 j 05:44 16°Υ07'58 30.88504 AU direct -2396 Dec 29 j 23:17 max. Earth dist. 2°Y03'04 16°**Y**43'19 evening set -2395 Mar 28 j 03:12 morning rise -2389 May 14 j 04:25 18°**Y**40'11 retrograde -2389 Aug 12 j 07:58 -2389 Oct 29 j 12:54 17°**Y**15'42 -2°03'13 -2395 Apr 13 j 07:07 2°Y38'56 -2°04'03 opposition conjunction 17°**Y**16′08 28.88955 AU -2395 Apr 13 j 07:08 2°\bar{\gamma}38'56 2°04'02 min. Earth dist. -2389 Oct 29 j 06:46 minimum elong -2395 Apr 13 j 19:28 2°**Y**40′05 30.84769 AU -2388 Jan 15 j 11:06 15°**Y**51'18 max. Earth dist. direct -2395 Apr 29 j 12:52 3°Y14'59 -2388 Apr 13 j 06:09 17°**Y**46′15 morning rise evening set -2395 Jul 29 j 03:59 5°**Y**12'33 retrograde 18°**Y**′22'15 -1°54'15 -2388 Apr 29 j 12:16 opposition -2395 Oct 15 j 21:08 3°**Y**47'32 -2°12'13 conjunction min. Earth dist. -2395 Oct 15 j 09:45 3°**Y**48'21 28.85078 AU minimum elong -2388 Apr 29 j 12:17 18°**Y**22'15 1°54'14 direct -2394 Jan 01 j 11:28 2°Y23'10 max. Earth dist. -2388 Apr 29 j 17:49 18°**Y**22'46 30.89140 AU evening set -2394 Mar 30 j 17:10 4°**Υ**17'36 morning rise -2388 May 15 j 19:16 18°**Y**58′21 retrograde -2388 Aug 13 j 20:36 20°**Y**55′05

Planetary Pheno	omena of Neptune 1	from -2400	through -1898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 2
Attention, astronom	nical year style is used: Th	ne year -2388	in astronomical co	unting style is the year	r 2389 BCE in historical c	ounting style.	
opposition	-2388 Oct 30 j 23:35	19° Y 30'40	-2°01'02	conjunction	-2381 May 16 j 16:52	4° 8 03'42	-1°36'05
min. Earth dist.	-2388 Oct 30 j 18:19	19° Ƴ 31'03	28.89541 AU	minimum elong	-2381 May 16 j 16:52	4° 8 03'42	1°36'02
direct	-2387 Jan 16 j 21:47	18° Ƴ 06′13		max. Earth dist.	-2381 May 16 j 15:25	4° 8 03'34	30.92541 AU
evening set	-2387 Apr 15 j 20:16	20° Ƴ 01'14		morning rise	-2381 Jun 02 j 00:20	4° 8 39'45	
				retrograde	-2381 Aug 30 j 06:38	6° 8 35'16	
conjunction	-2387 May 02 j 02:48	20° Ƴ 37'15	-1°52'08	opposition	-2381 Nov 16 j 00:15	5° 8 11'07	-1°41'02
minimum elong	-2387 May 02 j 02:48	20° Ƴ 37'15	1°52'06	min. Earth dist.	-2381 Nov 16 j 01:16	5° 8 11'03	28.93009 AU
max. Earth dist.	-2387 May 02 j 08:09	20° Ƴ 37'45	30.89672 AU	direct	-2380 Feb 02 j 12:13	3° 8 46'12	
morning rise	-2387 May 18 j 09:46	21° Y 13'21		evening set	-2380 May 01 j 23:05	5° 8 41'29	
retrograde	-2387 Aug 16 j 07:22	23° Y 09'56					
opposition	-2387 Nov 02 j 10:17	21° Y 45'34	-1°58'41	conjunction	-2380 May 18 j 07:06	6° 8 17'33	-1°32'53
min. Earth dist.	-2387 Nov 02 j 06:40	21° Y 45'50	28.90016 AU	minimum elong	-2380 May 18 j 07:07	6° 8 17'33	1°32'52
direct	-2386 Jan 19 j 08:44	20° Y 21′04		max. Earth dist.	-2380 May 18 j 05:58	6° 8 17'27	30.93339 AU
evening set	-2386 Apr 18 j 10:35	22° Υ 16'07		morning rise	-2380 Jun 03 j 14:26	6° 8 53'36	
				retrograde	-2380 Aug 31 j 17:39	8° 8 48'57	
conjunction	-2386 May 04 j 17:19	22° Y 52'09	-1°49'51	opposition	-2380 Nov 17 j 10:32	7° 8 24'53	-1°37'32
minimum elong	-2386 May 04 j 17:19	22° Y 52'09	1°49'50	min. Earth dist.	-2380 Nov 17 j 12:03	7° 8 24'47	28.93858 AU
max. Earth dist.	-2386 May 04 j 20:38	22° Y ′52'27	30.90122 AU	direct	-2379 Feb 04 j 00:51	5° 8 59'57	
morning rise	-2386 May 21 j 00:33	23° Y 28'15		evening set	-2379 May 04 j 13:01	7° 8 55'18	
retrograde	-2386 Aug 18 j 19:21	25° Y 24'39					
opposition	-2386 Nov 04 j 20:37	24° Y 00′19	-1°56'10	conjunction	-2379 May 20 j 21:01	8° 8 31'22	-1°29'33
min. Earth dist.	-2386 Nov 04 j 17:19	24° Y 00'33	28.90429 AU	minimum elong	-2379 May 20 j 21:01	8° 8 31'22	1°29'30
direct	-2385 Jan 21 j 21:19	22° Ƴ 35'44		max. Earth dist.	-2379 May 20 j 17:58	8° 8 31'05	30.94258 AU
evening set	-2385 Apr 21 j 00:52	24° Ƴ 30'50		morning rise	-2379 Jun 06 j 04:31	9° 8 07'25	
C	1 0			retrograde	-2379 Sep 03 j 06:17	11° 8 02'37	
conjunction	-2385 May 07 j 07:53	25° Y ′06′52	-1°47'25	opposition	-2379 Nov 19 j 20:46	9° 8 38'39	-1°33'53
minimum elong	-2385 May 07 j 07:54	25° Y ′06′52		min. Earth dist.	-2379 Nov 19 j 22:47	_	28.94816 AU
max. Earth dist.	-2385 May 07 j 10:32		30.90512 AU	direct	-2378 Feb 06 j 11:35	8° 8 13'43	
morning rise	-2385 May 23 j 15:07	25° Ƴ 42'57		evening set	-2378 May 07 j 03:02	10° 8 09'08	
retrograde	-2385 Aug 21 j 05:56	27° Ƴ 39'11		8			
opposition	-2385 Nov 07 j 07:11	26° Ƴ 14'53	-1°53'28	conjunction	-2378 May 23 j 11:19	10° 8 45'13	-1°26'04
min. Earth dist.	-2385 Nov 07 j 05:44		28.90809 AU	minimum elong	-2378 May 23 j 11:19	10° 8 45'13	
direct	-2384 Jan 24 j 09:49	24° Y 50'12		max. Earth dist.	-2378 May 23 j 08:24		30.95241 AU
evening set	-2384 Apr 22 j 14:57	26° Ƴ 45'20		morning rise	-2378 Jun 08 j 18:35	11° 8 21'15	
8 - 1 - 2 - 1 - 1	1 J			retrograde	-2378 Sep 05 j 16:27	13° 8 16'19	
conjunction	-2384 May 08 j 22:11	27° Y 21'22	-1°44'49	opposition	-2378 Nov 22 j 06:59	11° 8 52'29	-1°30'06
minimum elong	-2384 May 08 j 22:11	27° Y 21'22	1°44'47	min. Earth dist.	-2378 Nov 22 j 10:36		28.95799 AU
max. Earth dist.	-2384 May 08 j 23:41		30.90908 AU	direct	-2377 Feb 08 j 22:28	10° 8 27'33	
morning rise	-2384 May 25 j 05:30	27° Ƴ 57'27		evening set	-2377 May 09 j 17:16	12° 8 23'02	
retrograde	-2384 Aug 22 j 18:23	29° Ƴ 53'30		8		•	
opposition	-2384 Nov 08 j 17:27	28° Y 29'13	-1°50'36	conjunction	-2377 May 26 j 01:29	12° 8 59'07	-1°22'27
min. Earth dist.	-2384 Nov 08 j 15:48		28.91213 AU	minimum elong	-2377 May 26 j 01:30	12° 8 59'07	
direct	-2383 Jan 25 j 23:18	27° Ƴ 04'28		max. Earth dist.	-2377 May 25 j 20:35		30.96228 AU
evening set	-2383 Apr 25 j 05:03	28° Ƴ 59'37		morning rise	-2377 Jun 11 j 08:50	13° 8 35'09	
<i>8</i>	1 1			3 3	-2377 Jul 27 j 13:08	15° 8	
conjunction	-2383 May 11 j 12:25	29° Ƴ 35'40	-1°42'03	retrograde	-2377 Sep 08 j 04:11	15° 8 30'05	
minimum elong	-2383 May 11 j 12:26	29° Ƴ 35'40		21118	-2377 Oct 21 j 10:42	15°R ႘	
max. Earth dist.	-2383 May 11 j 12:49		30.91344 AU	opposition	-2377 Nov 24 j 17:15	14° 8 06'20	-1°26'10
	-2383 May 22 j 11:07	0°8		min. Earth dist.	-2377 Nov 24 j 21:06		28.96758 AU
morning rise	-2383 May 27 j 19:49	0° 8 11'44		direct	-2376 Feb 11 j 10:31	12° 8 41'24	
retrograde	-2383 Aug 25 j 06:04	2° 8 07'36		evening set	-2376 May 11 j 07:17	14° 8 36'58	
opposition	-2383 Nov 11 j 03:46	0° 8 43'21	-1°47'34	- · · · · · · · · · · · · · · · · · · ·	-2376 May 21 j 18:53	15° 8	
min. Earth dist.	-2383 Nov 11 j 03:47		28.91697 AU			•	
	-2383 Dec 07 j 19:38	30°RΥ		conjunction	-2376 May 27 j 15:36	15° 8 13'03	-1°18'44
direct	-2382 Jan 28 j 10:40	29° Υ 18'31		minimum elong	-2376 May 27 j 15:37	15° 8 13'03	
	-2382 Mar 20 j 04:46	0°8		max. Earth dist.	-2376 May 27 j 10:08		30.97144 AU
evening set	-2382 Apr 27 j 19:00	1° 8 13'43		morning rise	-2376 Jun 12 j 22:42	15° 8 49'03	
		Q .5.5		retrograde	-2376 Sep 09 j 14:17	17° 8 43'51	
conjunction	-2382 May 14 j 02:43	1° 8 49'46	-1°39'09	opposition	-2376 Nov 26 j 03:41	16° 8 20'12	-1°22'07
minimum elong	-2382 May 14 j 02:43	1° 8 49'46		min. Earth dist.	-2376 Nov 26 j 09:29		28.97631 AU
max. Earth dist.	-2382 May 14 j 02:56		30.91887 AU		-2375 Jan 27 j 00:20	15°R と	, 00 1 110
morning rise	-2382 May 30 j 10:05	2° 8 25'49	21.2 200, 110	direct	-2375 Feb 12 j 22:00	14° 8 55'14	
retrograde	-2382 Aug 27 j 18:56	4° 8 21'30			-2375 Mar 01 j 20:23	15° 8	
opposition	-2382 Nov 13 j 14:01	2° 8 57'18	-1°44'23	evening set	-2375 May 13 j 21:21	16° 8 50'52	
min. Earth dist.	-2382 Nov 13 j 14:00		28.92283 AU	- · · · · · · · · · · · · · · · · · · ·		00002	
direct	-2381 Jan 31 j 00:56	1° 8 32'25	2200 110	conjunction	-2375 May 30 j 05:42	17° 8 26'57	-1°14'53
evening set	-2381 Apr 30 j 09:09	3° 8 27'39		minimum elong	-2375 May 30 j 05:42	17° 8 26'57	
		. 32,07				. 02007	

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2375 in astronomical counting style is the year 2376 BCE in historical counting style. -2375 May 29 j 22:39 17°**8**26'17 30.97980 AU min. Earth dist. -2369 Dec 12 j 14:21 1°**Д**52'52 29.02548 AU max. Earth dist. -2375 Jun 15 j 12:47 18°802'57 direct -2368 Feb 29 j 13:17 0°**I**I28'24 morning rise -2375 Sep 12 j 02:23 19°**8**57'35 -2368 May 29 j 21:35 2°**Ⅱ**24'16 retrograde evening set -2375 Nov 28 j 13:50 18°**8**34'00 -1°17'57 opposition -2375 Nov 28 j 19:44 18°**8**33'35 28.98408 AU -2368 Jun 15 j 05:25 3°П00'16 -0°45'20 min. Earth dist. conjunction 17°809'00 -2368 Jun 15 j 05:25 3°**I**100'17 0°45'17 direct -2374 Feb 15 j 10:53 minimum elong -2374 May 16 j 11:27 19°**8**04'41 -2368 Jun 14 j 15:59 2°**Д**59'02 31.02998 AU evening set max. Earth dist. -2368 Jul 01 j 11:07 3°**Ⅱ**36'07 morning rise -2374 Jun 01 j 19:48 19°840'46 -1°10'56 -2368 Sep 27 j 07:34 5°**Ⅱ**29'39 conjunction retrograde -2374 Jun 01 j 19:48 19°840'46 1°10'54 -2368 Dec 13 j 13:03 minimum elong opposition 4°П06'28 -0°46'03 max. Earth dist. -2374 Jun 01 j 11:20 19°**8**39'59 30.98708 AU min. Earth dist. -2368 Dec 14 j 00:01 4°**П**05'42 29.03533 AU -2374 Jun 18 j 02:44 20°816'45 -2367 Mar 03 j 01:05 2°**Ⅱ**41'11 morning rise direct -2374 Sep 14 j 13:32 22°**8**11'14 -2367 Jun 01 j 11:01 4°**Ⅲ**37'06 retrograde evening set 20°847'42 -1°13'41 opposition -2374 Dec 01 j 00:12 min. Earth dist. -2374 Dec 01 j 08:02 20°847'09 28.99095 AU conjunction -2367 Jun 17 j 18:47 5° II 13'07 -0°40'48 -2367 Jun 17 j 18:47 direct -2373 Feb 17 j 22:34 19°**8**22'39 minimum elong 5°**Ⅱ**13'07 0°40'45 evening set -2373 May 19 j 01:23 21°**8**18'22 max. Earth dist. -2367 Jun 17 j 05:30 5°**Ⅱ**11'53 31.04044 AU morning rise -2367 Jul 04 j 00:03 5°**Ⅱ**48'55 conjunction -2373 Jun 04 j 09:48 21°854'27 -1°06'53 retrograde -2367 Sep 29 j 16:59 7°**Ⅱ**42'21 minimum elong -2373 Jun 04 j 09:48 21°**8**54'27 1°06'49 opposition -2367 Dec 15 j 23:09 6°**Ⅱ**19'15 -0°41'11 max. Earth dist. -2373 Jun 04 j 00:43 21°**8**53'36 30.99367 AU min. Earth dist. -2367 Dec 16 j 11:39 6°**Д**18'23 29.04634 AU morning rise -2373 Jun 20 j 16:31 22°830'24 direct -2366 Mar 05 j 11:20 4°**I**53'59 retrograde -2373 Sep 17 i 01:38 24°824'43 evening set -2366 Jun 04 j 00:31 6°**Ⅱ**49'58 opposition -2373 Dec 03 i 10:20 23°**8**01'15 -1°09'18 min. Earth dist. -2373 Dec 03 j 18:30 23°**8**00'40 28.99714 AU conjunction -2366 Jun 20 j 08:03 7°**II**25'57 -0°36'12 -2372 Feb 20 i 13:10 21°836'09 -2366 Jun 20 j 08:03 7°**II**25'57 0°36'10 direct minimum elong -2372 May 20 j 15:19 23°**8**31'54 max. Earth dist. -2366 Jun 19 j 17:42 7°**Ⅲ**24'37 31.05198 AU evening set -2366 Jul 06 j 13:06 8°**Ⅱ**01'45 morning rise -2372 Jun 05 j 23:34 24°807'57 -1°02'44 -2366 Oct 02 j 04:19 9°**I**55′03 conjunction retrograde -2366 Dec 18 j 09:16 -2372 Jun 05 j 23:34 24°**8**07'57 1°02'41 8°**Д**32'05 -0°36'15 minimum elong opposition 8°**Д**31'13 29.05801 AU -2372 Jun 05 j 12:44 24°**8**06'57 30.99981 AU -2366 Dec 18 j 21:27 max. Earth dist. min. Earth dist. -2372 Jun 22 j 06:12 24°**8**43'54 -2365 Mar 07 j 22:59 7°**Ⅱ**06'49 direct morning rise -2372 Sep 18 j 12:56 -2365 Jun 06 j 14:02 26°**8**38'03 9°**Ⅱ**02'52 retrograde evening set -2372 Dec 04 j 20:32 25°**8**14'37 -1°04'49 opposition 9°П38'50 -0°31'34 -2372 Dec 05 j 05:52 25°**8**13'57 29.00334 AU -2365 Jun 22 j 21:17 min. Earth dist. conjunction -2371 Feb 22 j 00:52 23°**8**49'27 -2365 Jun 22 j 21:18 9°II38'50 0°31'30 direct minimum elong -2371 May 23 j 04:50 25°**8**45'14 -2365 Jun 22 j 06:07 9°**Д**37'26 31.06370 AU evening set max. Earth dist. morning rise -2365 Jul 09 j 01:55 10°**Ⅲ**14'36 conjunction -2371 Jun 08 j 13:12 26°**8**21'17 -0°58'30 retrograde -2365 Oct 04 j 14:34 12°**Ⅱ**07'49 minimum elong -2371 Jun 08 j 13:13 26°**8**21'17 0°58'26 opposition -2365 Dec 20 j 19:34 10°**耳**44'57 -0°31'15 max. Earth dist. -2371 Jun 08 j 02:35 26°**8**20'18 31.00613 AU min. Earth dist. -2365 Dec 21 j 09:25 10°**Д**43'58 29.06973 AU -2371 Jun 24 j 19:32 26°**8**57'12 direct -2364 Mar 09 j 10:27 9°**Ⅱ**19'43 morning rise retrograde -2371 Sep 20 j 23:34 28°**8**51'11 -2364 Jun 08 j 03:30 11°**Ⅱ**15'49 evening set -2371 Dec 07 j 06:41 27°**8**27'47 -1°00'15 opposition min. Earth dist. -2371 Dec 07 j 16:40 27°**8**27'05 29.00975 AU conjunction -2364 Jun 24 j 10:32 11°**П**51'46 -0°26'52 -2370 Feb 24 i 14:13 26°802'35 -2364 Jun 24 i 10:32 11°**I**51'46 0°26'49 direct minimum elong -2370 May 25 j 18:37 -2364 Jun 23 i 18:54 11°**Д**50'19 31.07522 AU evening set 27°**8**58'23 max. Earth dist. morning rise -2364 Jul 10 j 14:46 12°**Ⅱ**27'29 -2370 Jun 11 j 02:43 28°**8**34'25 -0°54'11 -2364 Oct 06 i 01:55 14°**Ⅱ**20′36 conjunction retrograde opposition minimum elong -2370 Jun 11 i 02:44 28°**8**34'25 0°54'08 -2364 Dec 22 i 05:50 12°**I**57'49 -0°26'13 max. Earth dist. -2370 Jun 10 i 14:11 28°833'16 31.01296 AU min. Earth dist. -2364 Dec 22 j 19:57 12°**I**I56'49 29.08082 AU -2370 Jun 27 j 08:59 29°**8**10'19 direct -2363 Mar 12 j 00:17 11°**Ⅲ**32'35 morning rise -2370 Jul 21 j 20:47 $0^{\circ}II$ evening set -2363 Jun 10 j 16:57 13°**I**I28'44 1°**I**I04'08 retrograde -2370 Sep 23 j 11:50 14°**I**104'40 -0°22'09 -2370 Nov 28 j 06:29 30°R₩ conjunction -2363 Jun 26 j 23:37 29°840'48 -0°55'36 14°**耳**04'40 0°22'04 opposition -2370 Dec 09 j 16:43 minimum elong -2363 Jun 26 j 23:37 14°**Д**03'04 31.08583 AU min. Earth dist. -2370 Dec 10 j 02:59 29°840'04 29.01708 AU max. Earth dist. -2363 Jun 26 j 06:17 -2369 Feb 27 j 01:46 28°**8**15'32 -2363 Jul 13 j 03:33 14°**Ⅱ**40′22 direct morning rise -2369 May 23 j 00:45 $\mathbb{I}^{\circ 0}$ -2363 Oct 08 j 13:20 16°**Ⅲ**33'22 retrograde $0^{\circ}\Pi11'22$ -2369 May 28 j 08:10 -2363 Dec 24 j 16:13 15°**耳**10'38 -0°21'08 evening set opposition -2363 Dec 25 j 07:32 15°**Д**09'34 29.09098 AU min. Earth dist. conjunction -2369 Jun 13 j 16:18 0°**I**47'24 -0°49'48 direct -2362 Mar 14 j 11:44 13°**Ⅱ**45'24 minimum elong -2369 Jun 13 j 16:18 0°**I**47'24 0°49'44 evening set -2362 Jun 13 j 06:22 15°**Ⅱ**41'35 max. Earth dist. -2369 Jun 13 j 04:15 0°**Д**46'18 31.02079 AU morning rise -2369 Jun 29 j 22:06 1°**Ⅲ**23'16 conjunction -2362 Jun 29 j 12:52 16°**I**17'29 -0°17'23 -2369 Sep 25 j 21:03 3°**Ⅱ**16'57 minimum elong -2362 Jun 29 j 12:52 16°**Ⅱ**17'29 0°17'20 retrograde -2369 Dec 12 j 02:57 1°**I**53'40 -0°50'52 max. Earth dist. -2362 Jun 28 j 19:29 16°**Ц**15'53 31.09539 AU opposition

Planetary Pheno	omena of Neptune f	from -2400 through -1	898 (UT), Astrodien	st AG 18-Feb-2025	14:23, page 4
		e year -2362 in astronomica			
morning rise	-2362 Jul 15 j 16:14	16° I 53′09	conjunction	-2356 Jul 12 j 16:40	29° I 30'47 0°11'25
retrograde	-2362 Oct 11 j 00:06	18° Ⅱ 46′01	minimum elong	-2356 Jul 12 j 16:41	29° I 30'47 0°11'28
opposition	-2362 Dec 27 j 02:33	17° Ⅲ 23′22 -0°16′03	behind sun begin	-2356 Jul 12 j 11:59	29° I I30'22
min. Earth dist.	-2362 Dec 27 j 18:46	17° Д 23'22 0 10 03 17° Д 22'13 29.09988 AU	_	-2356 Jul 12 j 21:22	29°II31'12
direct	-2361 Mar 17 j 01:35	15° I 58'06	max. Earth dist.	-2356 Jul 11 j 19:08	29° Д 28'47 31.14136 AU
evening set	-2361 Jun 15 j 19:52	17° I I54'18	max. Lartii dist.	-2356 Jul 25 j 21:04	0°95
max. Earth dist.	-2361 Jul 01 j 06:23	18° Д 28'23 31.10384 AU	J morning rise	-2356 Jul 28 j 17:11	0° 5 06'12
max. Earth dist.	-2301 Jul 01 J 00.23	16 H2623 31.10364 AC	•	3	1° 9 58'23
	22(1 I-1 02:01.51	100 Т 2011 0 001 212 7	retrograde	-2356 Oct 23 j 12:38	
conjunction	-2361 Jul 02 j 01:51	18° II 30'10 -0°12'37	opposition	-2355 Jan 08 j 16:41	0°535'58 0°14'39
minimum elong	-2361 Jul 02 j 01:51	18° Ⅲ 30′10 0°12′33	min. Earth dist.	-2355 Jan 09 j 12:12	0°534'37 29.14628 AU
behind sun begin	-2361 Jul 01 j 21:43	18° Ⅲ 29'48		-2355 Jan 30 j 20:30	30°RⅡ
behind sun end	-2361 Jul 02 j 06:00	18° Ⅲ 30'32	direct	-2355 Mar 30 j 00:50	29° Ⅱ 10'33
morning rise	-2361 Jul 18 j 04:56	19° Ⅱ 05'48		-2355 May 25 j 16:54	0°ඉ
retrograde	-2361 Oct 13 j 12:25	20° I I58'32	evening set	-2355 Jun 29 j 01:17	1°906'51
opposition	-2361 Dec 29 j 12:56	19° Ⅱ 35'55 -0°10'56	max. Earth dist.	-2355 Jul 14 j 07:30	1°5540'32 31.15091 AU
min. Earth dist.	-2361 Dec 30 j 05:32	19° Ⅲ 34'46 29.10792 AU	J		
direct	-2360 Mar 18 j 14:12	18° Ⅱ 10'37	conjunction	-2355 Jul 15 j 04:53	1°5642'31 0°16'10
evening set	-2360 Jun 17 j 08:53	20° Ⅲ 06′51	minimum elong	-2355 Jul 15 j 04:53	1°5642'31 0°16'14
			morning rise	-2355 Jul 31 j 04:52	2° 9 17'53
conjunction	-2360 Jul 03 j 14:41	20° I 42'41 -0°07'51	retrograde	-2355 Oct 25 j 23:07	4°9510'01
minimum elong	-2360 Jul 03 j 14:41	20° I I42'41 0°07'48	opposition	-2354 Jan 11 j 03:06	2°547'41 0°19'44
behind sun begin	-2360 Jul 03 j 08:47	20°II42'09	min. Earth dist.	-2354 Jan 11 j 22:19	2°546'20 29.15619 AU
behind sun end	-2360 Jul 03 j 20:35	20° I I43'12	direct	-2354 Apr 01 j 13:47	1°522'17
max. Earth dist.	-2360 Jul 02 j 19:34	20° II 40'55 31.11143 AU		-2354 Jul 01 j 14:02	3°518'38
morning rise	-2360 Jul 19 j 17:09	21° I 18'15	evening set	-2334 Jul 01 j 14.02	3 31838
•		23° I I10'53		2254 I1 17: 17:01	200554117 0020154
retrograde	-2360 Oct 14 j 21:19		conjunction	-2354 Jul 17 j 17:01	3°554'16 0°20'54
opposition	-2360 Dec 30 j 23:22	21° II 48'18 -0°05'48	minimum elong	-2354 Jul 17 j 17:01	3°954'16 0°20'57
min. Earth dist.	-2360 Dec 31 j 17:23	21° Ⅱ 47′02 29.11518 AU		-2354 Jul 16 j 18:40	3°952'12 31.16121 AU
direct	-2359 Mar 21 j 02:50	20°II22'58	morning rise	-2354 Aug 02 j 16:29	4° © 29'36
evening set	-2359 Jun 19 j 22:04	22° Ⅱ 19'11	retrograde	-2354 Oct 28 j 10:17	6° 9 21'42
max. Earth dist.	-2359 Jul 05 j 06:37	22° I 53′04 31.11856 AU	J opposition	-2353 Jan 13 j 13:31	4°959'27 0°24'47
			min. Earth dist.	-2353 Jan 14 j 09:19	4°୭58'05 29.16689 AU
conjunction	-2359 Jul 06 j 03:22	22° Ⅱ 54'59 -0°03'04	direct	-2353 Apr 04 j 00:14	3° 5 34'06
minimum elong	-2359 Jul 06 j 03:21	22° ∏ 54'59 0°03'00	evening set	-2353 Jul 04 j 02:37	5° 9 30'32
behind sun begin	-2359 Jul 05 j 20:48	22° ∏ 54′24	max. Earth dist.	-2353 Jul 19 j 07:30	6°504'06 31.17203 AU
behind sun end	-2359 Jul 06 j 09:53	22° Ⅲ 55'34			
morning rise	-2359 Jul 22 j 05:31	23° Ⅲ 30'31	conjunction	-2353 Jul 20 j 05:12	6°906'07 0°25'36
retrograde	-2359 Oct 17 j 07:53	25° Ⅱ 23'00	minimum elong	-2353 Jul 20 j 05:11	6°506'07 0°25'40
opposition	-2358 Jan 02 j 09:29	24° I 100'28 -0°00'41	morning rise	-2353 Aug 05 j 03:58	6°5941'24
min. Earth dist.	-2358 Jan 03 j 03:16	23° I I59'13 29.12222 AU	_	-2353 Oct 30 j 21:09	8°933'28
asc. node	-2358 Feb 19 j 20:16	22° I I50'58	opposition	-2352 Jan 16 j 00:11	7°\$11'20 0°29'47
direct	-2358 Mar 23 j 15:02	22° I I35'05	min. Earth dist.	-2352 Jan 16 j 20:29	7°509'55 29.17763 AU
evening set	-2358 Jun 22 j 11:04	24° I [31'18	direct	-2352 Apr 05 j 13:43	5°946'02
evening set	-2336 Juli 22 j 11.04	24 113116	evening set		7°\$42'30
	2250 1 1 00:16 02	25° I 107'05 0°01'52	evening set	-2352 Jul 05 j 15:09	/*94230
conjunction	-2358 Jul 08 j 16:03			2252 1 21:17.01	00610103 0030117
minimum elong	-2358 Jul 08 j 16:03	25° I 107'05 0°01'55	conjunction	-2352 Jul 21 j 17:01	8°518'03 0°30'16
behind sun begin	-2358 Jul 08 j 09:29	25° Ⅱ 06'30	minimum elong	-2352 Jul 21 j 17:01	8°518'03 0°30'19
behind sun end	-2358 Jul 08 j 22:37	25° Ⅲ 07'40	max. Earth dist.	-2352 Jul 20 j 17:47	8°515'54 31.18259 AU
max. Earth dist.	-2358 Jul 07 j 19:31	25° I 05'11 31.12555 AU	=	-2352 Aug 06 j 15:21	8° 9 53'18
morning rise	-2358 Jul 24 j 17:35	25° Ⅱ 42'35	retrograde	-2352 Nov 01 j 09:49	10°9545'21
retrograde	-2358 Oct 19 j 16:55	27° Ⅱ 34'57	opposition	-2351 Jan 17 j 10:46	9° © 23'17 0°34'45
opposition	-2357 Jan 04 j 19:57	26° Ⅱ 12'26 0°04'27	min. Earth dist.	-2351 Jan 18 j 07:08	9° ॐ 21'52 29.18796 AU
min. Earth dist.	-2357 Jan 05 j 15:09	26° Ⅱ 11'06 29.12943 AU	J direct	-2351 Apr 08 j 02:15	7° 9 58'02
direct	-2357 Mar 26 j 01:54	24° Ⅱ 47′01	evening set	-2351 Jul 08 j 03:39	9° 5 54'33
evening set	-2357 Jun 24 j 23:55	26° Ⅱ 43'16	max. Earth dist.	-2351 Jul 23 j 06:23	10°527'58 31.19232 AU
max. Earth dist.	-2357 Jul 10 j 07:07	27° Ⅲ 17′02 31.13306 AU	J		
	ž		conjunction	-2351 Jul 24 j 05:08	10°930'04 0°34'53
conjunction	-2357 Jul 11 j 04:23	27° I 19'00 0°06'40	minimum elong	-2351 Jul 24 j 05:08	10°530'04 0°34'57
minimum elong	-2357 Jul 11 j 04:22	27° I 19'00 0°06'44	morning rise	-2351 Aug 09 j 02:41	11° © 05'17
behind sun begin	-2357 Jul 10 j 22:15	27° I 18'27	retrograde	-2351 Nov 03 j 19:00	12°957'17
behind sun end	-2357 Jul 10 j 22:13	27° I I19'32	opposition	-2350 Jan 19 j 21:27	11°935'18 0°39'40
morning rise	-2357 Jul 27 j 05:28	27° I I54'27	min. Earth dist.	-2350 Jan 20 j 19:14	11°S33'47 29.19713 AU
•	-2357 Oct 22 j 03:08	29° II 46'43		-	10°\$10'04
retrograde	-		direct	-2350 Apr 10 j 14:48	
opposition	-2356 Jan 07 j 06:16	28° II 24'15 0°09'34	evening set	-2350 Jul 10 j 16:21	12° © 06'38
min. Earth dist.	-2356 Jan 08 j 00:44	28° II 22'58 29.13730 AU		2250 * 1 2511= 11	1005/004 000000
direct	-2356 Mar 27 j 13:51	26° I I58'49	conjunction	-2350 Jul 26 j 17:04	12°5642'06 0°39'28
evening set	-2356 Jun 26 j 12:41	28° Ⅱ 55'05	minimum elong	-2350 Jul 26 j 17:04	12° 5 42'06 0°39'30

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2350 in astronomical counting style is the year 2351 BCE in historical counting style. -2350 Jul 25 j 16:46 12°539'51 31.20087 AU max. Earth dist. -2343 Aug 09 j 23:18 27°559'51 31.23740 AU max. Earth dist. -2350 Aug 11 j 14:10 13°9917'16 morning rise -2350 Nov 06 j 06:02 -2343 Aug 11 j 00:59 28°902'14 1°09'22 15°909'13 conjunction retrograde -2349 Jan 22 j 08:12 -2343 Aug 11 j 00:59 13°5947'17 0°44'31 minimum elong 28°902'14 1°09'25 opposition -2349 Jan 23 j 05:38 -2343 Aug 26 j 17:35 min. Earth dist. 13°545'48 29.20504 AU morning rise 28°937'03 -2343 Oct 10 j 20:15 direct -2349 Apr 13 j 03:21 12°9522'04 0 $^{\circ}\Omega$ evening set -2349 Jul 13 j 04:42 14°9518'39 retrograde -2343 Nov 21 j 03:20 0°**£**28'42 max. Earth dist. -2349 Jul 28 j 04:49 14°951'50 31.20796 AU -2342 Jan 02 j 12:43 30°Rூ opposition -2342 Feb 06 j 12:06 29°506'48 1°16'10 conjunction -2349 Jul 29 j 04:56 14°954'05 0°43'58 min. Earth dist. -2342 Feb 07 j 10:49 29°505'14 29.24138 AU minimum elong -2349 Jul 29 j 04:55 14°954'05 0°44'01 direct -2342 Apr 28 j 14:55 27°5641'29 -2342 Jul 28 j 16:15 morning rise -2349 Aug 14 j 01:13 15°929'11 evening set 29°937'58 retrograde -2349 Nov 08 j 15:36 17°521'06 -2342 Aug 07 j 15:47 0° Ω opposition -2348 Jan 24 j 19:08 15°**©**59'12 0°49'18 max. Earth dist. -2342 Aug 12 j 11:38 0°**Ω**10'47 31.24401 AU min. Earth dist. -2348 Jan 25 j 18:03 15°**©**57'37 29.21157 AU direct -2348 Apr 14 j 14:41 14°533'59 conjunction -2342 Aug 13 j 12:03 0°Ω13'03 1°13'17 evening set -2348 Jul 14 j 17:05 16°930'33 minimum elong -2342 Aug 13 j 12:03 0°**£**13′03 1°13'19 morning rise -2342 Aug 29 j 03:50 0°**Ω**47'49 conjunction -2348 Jul 30 j 16:38 17°905'56 0°48'24 retrograde -2342 Nov 23 j 12:30 2°**Ω**39'29 minimum elong -2348 Jul 30 j 16:38 17°905'56 0°48'27 opposition -2341 Feb 08 j 23:12 1°**Ω**17'37 1°20'17 1°**Ω**16'01 29.24841 AU max. Earth dist. -2348 Jul 29 j 15:39 17°503'37 31.21390 AU min. Earth dist. -2341 Feb 09 j 22:36 morning rise -2348 Aug 15 j 12:25 17°5541'00 -2341 Apr 09 i 02:12 30°R55 retrograde -2348 Nov 10 j 01:17 19°932'51 direct -2341 May 01 i 03:05 29°952'22 opposition -2347 Jan 26 i 05:48 18°9510'58 0°54'00 -2341 May 22 j 22:31 $0^{\circ}\Omega$ min. Earth dist. -2347 Jan 27 j 04:12 18°909'25 29.21693 AU evening set -2341 Jul 31 j 03:46 1° **Ω**48'51 -2347 Apr 17 j 03:06 16°9345'44 direct -2347 Jul 17 j 05:16 -2341 Aug 15 j 22:44 2°Ω23'53 1°17'05 18°9542'17 conjunction evening set -2347 Aug 01 j 02:49 19°515'15 31.21871 AU -2341 Aug 15 j 22:44 max. Earth dist. minimum elong 2°Ω23'53 1°17'08 -2341 Aug 14 j 21:41 max. Earth dist. 2°**Ω**21'33 31.25139 AU -2347 Aug 02 j 04:16 -2341 Aug 31 j 14:01 2°Ω58'36 conjunction 19°517'37 0°52'46 morning rise -2347 Aug 02 j 04:15 19°**©**17'37 -2341 Nov 25 j 23:51 4°Ω50'18 retrograde minimum elong 0°52'50 -2347 Aug 17 j 23:22 19°**©**52'38 -2340 Feb 11 j 10:13 3°**Ω**28'29 1°24'17 morning rise opposition -2347 Nov 12 j 09:58 min. Earth dist. -2340 Feb 12 j 08:34 3°**Ω**26'57 29.25598 AU retrograde 21°9544'26 -2346 Jan 28 j 16:41 20°522'32 0°58'37 -2340 May 02 j 15:40 2°**Ω**03'17 opposition direct -2346 Jan 29 j 16:15 3°**Ω**59'48 min. Earth dist. 20°520'55 29.22148 AU evening set -2340 Aug 01 j 15:12 -2340 Aug 16 j 09:21 4°**Ω**32'32 31.25887 AU direct -2346 Apr 19 j 14:15 18°**©**57'16 max. Earth dist. evening set -2346 Jul 19 j 17:20 20°953'48 conjunction -2340 Aug 17 j 09:38 4°Ω34'48 1°20'46 conjunction -2346 Aug 04 j 15:43 21°529'05 0°57'03 minimum elong -2340 Aug 17 j 09:37 4°Ω34'48 1°20'49 -2346 Aug 04 j 15:42 21°**©**29'05 morning rise -2340 Sep 02 j 00:08 5°**Ω**09'28 minimum elong 0°57'07 max. Earth dist. -2346 Aug 03 j 14:30 21°526'44 31.22297 AU retrograde -2340 Nov 27 j 09:50 7°Ω01'11 -2346 Aug 20 j 10:10 22°504'03 -2339 Feb 12 j 21:19 5°**Ω**39'26 1°28'10 morning rise opposition -2346 Nov 14 j 19:09 23°955'47 min. Earth dist. -2339 Feb 13 j 20:46 5°Ω37'49 29.26345 AU retrograde -2345 Jan 31 j 03:30 22°533'53 1°03'09 -2339 May 05 j 03:02 4°Ω14'17 opposition direct -2345 Feb 01 j 02:45 6°**Ω**10'49 min. Earth dist. 22°532'17 29.22557 AU evening set -2339 Aug 04 j 02:41 direct -2345 Apr 22 j 02:42 21°9508'35 -2339 Aug 19 j 20:23 6°Ω45'46 1°24'21 evening set -2345 Jul 22 i 05:19 23°905'05 conjunction max. Earth dist. -2345 Aug 06 i 01:03 23°537'55 31.22709 AU minimum elong -2339 Aug 19 j 20:22 6°Ω45'46 1°24'24 max. Earth dist. -2339 Aug 18 j 19:44 6°**Ω**43'28 31.26603 AU -2345 Aug 07 j 02:57 23°9540'19 1°01'15 -2339 Sep 04 j 10:20 7°Ω20'24 conjunction morning rise -2345 Aug 07 j 02:57 23°540'19 1°01'19 -2339 Nov 29 j 19:49 9°Ω12'10 minimum elong retrograde -2345 Aug 22 j 20:49 24°915'14 -2338 Feb 15 j 08:30 7°Ω50'27 1°31'56 morning rise opposition -2345 Nov 17 j 05:48 min. Earth dist. 7°**Ω**48'54 29.27016 AU retrograde 26°906'56 -2338 Feb 16 j 07:06 opposition -2344 Feb 02 j 14:24 24°9545'01 1°07'36 direct -2338 May 07 j 15:32 6°**Ω**25'22 24°5643'24 29.23007 AU 8°**Ω**21'55 min. Earth dist. -2344 Feb 03 j 13:49 evening set -2338 Aug 06 j 14:06 -2344 Apr 23 j 13:10 23°9519'41 max. Earth dist. -2338 Aug 21 j 06:16 8°**\$\Omega**54'30 31.27210 AU direct -2344 Jul 23 j 16:53 25°516'10 evening set -2338 Aug 22 j 07:06 8°**Ω**56'49 1°27'48 conjunction -2344 Aug 08 j 14:01 -2338 Aug 22 j 07:06 8°**Ω**56'49 1°27'51 conjunction 25°951'21 1°05'22 minimum elong minimum elong -2344 Aug 08 j 14:00 25°951'21 1°05'24 morning rise -2338 Sep 06 j 20:22 9°**£**31′24 max. Earth dist. -2344 Aug 07 j 13:17 25°549'03 31.23181 AU retrograde -2338 Dec 02 j 05:10 11°**£**23′13 morning rise -2344 Aug 24 j 07:07 26°9526'13 opposition -2337 Feb 17 j 19:56 10°**Ω**01'32 1°35'33 retrograde -2344 Nov 18 j 15:29 28°9517'53 min. Earth dist. -2337 Feb 18 j 19:26 9°**Ω**59'55 29.27582 AU opposition -2343 Feb 04 j 01:20 26°955'58 1°11'56 direct -2337 May 10 j 02:03 8°**£**36′29 min. Earth dist. -2343 Feb 05 j 00:44 26°554'21 29.23518 AU evening set -2337 Aug 09 j 01:26 10°**£**33′02 -2343 Apr 26 j 02:53 25°530'38 direct -2343 Jul 26 j 04:41 -2337 Aug 24 j 17:49 11°**Ω**07'54 1°31'08 evening set 27°9527'06 conjunction

Planetary Pheno	omena of Neptune f	from -2400	through -1898	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 6
Attention, astronom	nical year style is used: Th	e year -2337	in astronomical co		r 2338 BCE in historical c	ounting style.	
minimum elong	-2337 Aug 24 j 17:48	11° Ω 07'54	1°31'10	opposition	-2330 Mar 05 j 04:20	25° Ω 17'11	1°56'46
max. Earth dist.	-2337 Aug 23 j 17:22	11° Ω 05'36	31.27709 AU	min. Earth dist.	-2330 Mar 06 j 02:35	25° Ω 15'39	29.29139 AU
morning rise	-2337 Sep 09 j 06:24	11° Ω 42′26		direct	-2330 May 25 j 14:57	23° Ω 52'15	
retrograde	-2337 Dec 04 j 14:35	13° Ω 34'17		evening set	-2330 Aug 24 j 05:21	25° Ω 48'34	
opposition	-2336 Feb 20 j 07:21	12° Ω 12'37	1°39'02				
min. Earth dist.	-2336 Feb 21 j 06:29	12° Ω 11′02	29.28012 AU	conjunction	-2330 Sep 08 j 17:12	26° Ω 23'06	1°50'28
direct	-2336 May 11 j 13:54	10° Ω 47'36		minimum elong	-2330 Sep 08 j 17:11	26° Ω 23'06	1°50'30
evening set	-2336 Aug 10 j 12:38	12° Ω 44'08		max. Earth dist.	-2330 Sep 07 j 18:47	26° Ω 21'00	31.29167 AU
max. Earth dist.	-2336 Aug 25 j 03:01	13° Ω 16'35	31.28068 AU	morning rise	-2330 Sep 24 j 01:46	26° Ω 57'21	
	Ç ÿ			retrograde	-2330 Dec 19 j 15:18	28° Ω 49'28	
conjunction	-2336 Aug 26 j 04:16	13° Ω 18'57	1°34'19	opposition	-2329 Mar 07 j 15:58	27° Ω 27'39	1°59'09
minimum elong	-2336 Aug 26 j 04:16	13° Ω 18'57		min. Earth dist.	-2329 Mar 08 j 12:34	27° Ω 26'15	29.29486 AU
morning rise	-2336 Sep 10 j 16:20	13° £ 53′27		direct	-2329 May 28 j 03:40	26° Ω 02'47	
5 5	-2336 Oct 14 j 16:28	15° Ω		evening set	-2329 Aug 26 j 15:48	27° Ω 59'04	
retrograde	-2336 Dec 06 j 01:31	15° Ω 45'20		max. Earth dist.	-2329 Sep 10 j 05:05		31.29555 AU
2011-08-11-11	-2335 Jan 29 j 20:30	15°RΩ					
opposition	-2335 Feb 21 j 18:47	14° Ω 23'40	1°42'22	conjunction	-2329 Sep 11 j 03:03	28° Ω 33'34	1°52'38
min. Earth dist.	-2335 Feb 22 j 18:08		29.28319 AU	minimum elong	-2329 Sep 11 j 03:03	28°Ω33'34	
direct	-2335 May 14 j 00:08	12°Ω58'40	27.20317710	morning rise	-2329 Sep 26 j 11:05	$29^{\circ}\Omega 07'48$	1 32 40
evening set	-2335 Aug 12 j 23:44	14°Ω55'10		morning risc	-2329 Oct 22 j 02:23	0° m	
evening set	-2335 Aug 12 j 23:44 -2335 Aug 15 j 04:36	14 % 233 10		retrograde	-2329 Dec 22 j 00:40	0° m y59'59	
	-2333 Aug 13 J 04.30	13 06		renograde	•	-	
	2225 4 20:14.51	150 020156	1027122	•••	-2328 Feb 24 j 15:33	30°R€	2001122
conjunction	-2335 Aug 28 j 14:51	15° Ω 29'56		opposition	-2328 Mar 09 j 03:43	29° Ω 38'12	29.29922 AU
minimum elong	-2335 Aug 28 j 14:51	15° Ω 29'56		min. Earth dist.	-2328 Mar 10 j 00:30		29.29922 AU
max. Earth dist.	-2335 Aug 27 j 14:36		31.28306 AU	direct	-2328 May 29 j 13:58	28° Ω 13'24	
morning rise	-2335 Sep 13 j 02:11	16° Ω 04'24			-2328 Aug 23 j 15:16	0° m)	
retrograde	-2335 Dec 08 j 11:13	17° Ω 56'19		evening set	-2328 Aug 28 j 02:03	0° ™ 09'40	
opposition	-2334 Feb 24 j 06:11	16° Ω 34'37					
min. Earth dist.	-2334 Feb 25 j 05:45		29.28500 AU	conjunction	-2328 Sep 12 j 12:49	0° Mp 44′08	
direct	-2334 May 16 j 13:32	15° Ω 09'38		minimum elong	-2328 Sep 12 j 12:49	0° ™ 44'08	
evening set	-2334 Aug 15 j 10:51	17° Ω 06′06		max. Earth dist.	-2328 Sep 11 j 16:01	-	31.30009 AU
max. Earth dist.	-2334 Aug 29 j 23:57	17° Ω 38'28	31.28450 AU	morning rise	-2328 Sep 27 j 20:20	1°Mp18'20	
				retrograde	-2328 Dec 23 j 09:54	3° Mp 10′36	
conjunction	-2334 Aug 31 j 01:09	17° Ω 40'49	1°40'17	opposition	-2327 Mar 11 j 15:29	1°Mp48'50	2°03'25
minimum elong	-2334 Aug 31 j 01:09	17° Ω 40'49	1°40'20	min. Earth dist.	-2327 Mar 12 j 11:27	1° ™ 47'29	29.30368 AU
morning rise	-2334 Sep 15 j 12:03	18° Ω 15'14		direct	-2327 Jun 01 j 01:42	0° m 24′07	
retrograde	-2334 Dec 10 j 23:12	20° Ω 07'11		evening set	-2327 Aug 30 j 12:30	2° My 20'21	
opposition	-2333 Feb 26 j 17:40	18° Ω 45'27	1°48'36				
min. Earth dist.	-2333 Feb 27 j 16:29	18° Ω 43'53	29.28625 AU	conjunction	-2327 Sep 14 j 22:34	2° m 54'47	1°56'27
direct	-2333 May 19 j 01:20	17° Ω 20′28		minimum elong	-2327 Sep 14 j 22:33	2° m 54'47	1°56'29
evening set	-2333 Aug 17 j 21:29	19° Ω 16'53		max. Earth dist.	-2327 Sep 14 j 01:24	2° m 52'48	31.30441 AU
max. Earth dist.	-2333 Sep 01 j 11:33		31.28550 AU	morning rise	-2327 Sep 30 j 05:40	3°m/28'58	
				retrograde	-2327 Dec 25 j 21:05	5° m/21'20	
conjunction	-2333 Sep 02 j 11:20	19° Ω 51'34	1°43'04	opposition	-2326 Mar 14 j 03:19	3° m 59'35	2°05'17
minimum elong	-2333 Sep 02 j 11:19	19° Ω 51'34		min. Earth dist.	-2326 Mar 14 j 23:03		29.30787 AU
morning rise	-2333 Sep 17 j 21:28	20° Ω 25'56	1 15 00	direct	-2326 Jun 03 j 11:45	2° Mp 34'56	27.50707110
retrograde	-2333 Dec 13 j 08:16	22° Ω 17'54		evening set	-2326 Sep 01 j 22:48	4° mp 31'09	
opposition	-2332 Feb 29 j 05:19	20°Ω56'08	1°51'29	evening set	-2320 Sep 01 j 22.40	לטונעוו די	
min. Earth dist.	-2332 Mar 01 j 04:37		29.28730 AU	conjunction	-2326 Sep 17 j 08:27	5° m 05'32	1°58'07
		19° Ω 31'10	29.28730 AU	-		5° my 05'32	
direct	-2332 May 20 j 13:25			minimum elong	-2326 Sep 17 j 08:27	-•	
evening set	-2332 Aug 19 j 08:16	21° Ω 27'32		max. Earth dist.	-2326 Sep 16 j 12:43		31.30816 AU
	2222 0 02:21 10	220 002100	1045141	morning rise	-2326 Oct 02 j 14:56	5° m 39'41	
conjunction	-2332 Sep 03 j 21:19	22° Ω 02'09		retrograde	-2326 Dec 28 j 06:40	7° m/32'09	
minimum elong	-2332 Sep 03 j 21:18	22° Ω 02'09		opposition	-2325 Mar 16 j 15:28	6° Mp 10′24	
max. Earth dist.	-2332 Sep 02 j 21:14		31.28675 AU	min. Earth dist.	-2325 Mar 17 j 11:06	-•	29.31112 AU
morning rise	-2332 Sep 19 j 07:03	22° Ω 36′29		direct	-2325 Jun 06 j 00:00	4° ₩ 45'50	
retrograde	-2332 Dec 14 j 19:31	24° Ω 28'29		evening set	-2325 Sep 04 j 09:07	6° ™ 41'59	
opposition	-2331 Mar 02 j 16:38	23° Ω 06'42					
min. Earth dist.	-2331 Mar 03 j 14:30		29.28891 AU	conjunction	-2325 Sep 19 j 18:03	7°Mp16'21	1°59'37
direct	-2331 May 23 j 02:46	21° Ω 41'43		minimum elong	-2325 Sep 19 j 18:03	7° Mp 16′21	1°59'38
evening set	-2331 Aug 21 j 18:50	23° Ω 38′04		max. Earth dist.	-2325 Sep 18 j 21:35	7° Mp 14′26	31.31085 AU
max. Earth dist.	-2331 Sep 05 j 08:29	24° Ω 10'31	31.28865 AU	morning rise	-2325 Oct 05 j 00:16	7° m 50'28	
				retrograde	-2325 Dec 30 j 18:48	9° Mp 43′02	
conjunction	-2331 Sep 06 j 07:23	24° Ω 12'39	1°48'09	opposition	-2324 Mar 18 j 03:32	8°M21'16	2°08'29
minimum elong	-2331 Sep 06 j 07:23	24° Ω 12'39	1°48'11	min. Earth dist.	-2324 Mar 18 j 22:16		29.31323 AU
morning rise	-2331 Sep 21 j 16:26	24° Ω 46'56		direct	-2324 Jun 07 j 10:32	6° m 56'44	
retrograde	-2331 Dec 17 j 05:54	26° Ω 38'59		evening set	-2324 Sep 05 j 19:19	8° m 52'51	
-	.			S	1 3		

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2324 in astronomical counting style is the year 2325 BCE in historical counting style. max. Earth dist. -2324 Sep 20 i 08:39 9° m 25'22 31.31214 AU min. Earth dist. -2317 Apr 04 j 08:11 23° m 34'29 29.30151 AU -2317 Jun 23 j 22:55 22° Mp 11'11 direct -2324 Sep 21 j 03:55 -2317 Sep 21 j 16:08 24° M) 06'46 conjunction 9° m 27'11 2°00'56 evening set -2324 Sep 21 j 03:55 9° mp 27'11 2°00'57 minimum elong -2324 Oct 06 j 09:33 10° m 01'16 -2317 Oct 06 j 21:47 morning rise conjunction 24° m 40'55 2°05'19 24° m/40'55 2°05'19 -2323 Jan 01 j 04:34 11° m 53'55 -2317 Oct 06 j 21:48 retrograde minimum elong 10° Mg 32′07 -2317 Oct 06 j 07:31 opposition -2323 Mar 20 j 15:38 2°09'48 max. Earth dist. 24° m 39'34 31.29949 AU -2317 Oct 22 j 01:12 min. Earth dist. -2323 Mar 21 j 11:03 10° Mp 30'48 29.31380 AU morning rise 25° m 14'53 -2316 Jan 17 j 04:41 direct -2323 Jun 09 j 22:20 9° m 07'38 retrograde 27° m 08'07 evening set -2323 Sep 08 j 05:40 11° Mp 03'42 opposition -2316 Apr 05 j 05:46 25° m 45'59 2°13'50 min. Earth dist. -2316 Apr 05 j 19:58 25° Mp 45'01 29.30073 AU -2323 Sep 23 j 13:38 11° m/37'59 2°02'05 -2316 Jun 25 j 10:32 conjunction direct 24° Mp 21'46-2323 Sep 23 j 13:38 -2316 Sep 23 j 01:46 minimum elong 11° m/37'59 2°02'06 evening set 26° Mp 17'18-2323 Sep 22 j 17:54 max. Earth dist. 11° Mp 36'08 31.31203 AU morning rise -2323 Oct 08 j 19:00 12° Mp 12'03 conjunction -2316 Oct 08 j 06:56 26° m 51'25 2°05'13 retrograde -2322 Jan 03 j 16:37 14° Mp 04'45 minimum elong -2316 Oct 08 j 06:56 26° M 51'25 2°05'13 opposition -2322 Mar 23 j 03:47 12° m/42'55 2°10'57 max. Earth dist. -2316 Oct 07 j 16:28 26° m 50'03 31.29907 AU min. Earth dist. -2322 Mar 23 j 21:54 12° Mp 41'42 29.31295 AU morning rise -2316 Oct 23 j 10:18 27° m 25'23 direct -2322 Jun 12 j 11:37 11° mp 18'28 retrograde -2315 Jan 18 j 16:54 29° m 18'46 evening set -2322 Sep 10 j 15:39 13° m) 14'27 opposition -2315 Apr 07 j 18:01 27° m 56'37 2°13'39 min. Earth dist. -2315 Apr 08 j 06:47 27° m 55'45 29.30045 AU conjunction -2322 Sep 25 i 23:14 13° m 48'42 2°03'04 direct -2315 Jun 27 i 19:59 26° m 32'29 minimum elong -2322 Sep 25 i 23:14 13° m 48'42 2°03'05 evening set -2315 Sep 25 j 11:15 28° m 27'59 max. Earth dist. -2322 Sep 25 i 04:24 13° m 46'56 31.31046 AU morning rise -2322 Oct 11 j 04:08 14° m 22'45 conjunction -2315 Oct 10 i 16:15 29° m 02'05 2°04'57 -2321 Jan 06 j 03:25 16° m 15'32 -2315 Oct 10 i 16:15 29° m 02'05 2°04'57 retrograde minimum elong opposition -2321 Mar 25 j 16:10 14° m 53'38 2°11'54 max. Earth dist. -2315 Oct 10 j 03:29 29° m 00'53 31.29877 AU -2321 Mar 26 j 10:51 14° m 52'22 29.31089 AU -2315 Oct 25 j 19:17 29° m 36'04 min. Earth dist. morning rise 13°m/29'12 -2315 Nov 05 j 22:25 -2321 Jun 14 j 23:55 0∘Ω direct evening set -2321 Sep 13 j 01:36 15° m 25'05 -2314 Jan 21 j 03:21 1°**2**29'34 retrograde opposition -2314 Apr 10 j 06:42 0°**2**07'25 2°13'16 15° m 59'19 2°03'52 -2321 Sep 28 j 08:44 min. Earth dist. -2314 Apr 10 j 19:38 conjunction 0°**೨**06'33 29.30002 AU 15° m 59'19 2°03'53 -2321 Sep 28 j 08:44 -2314 Apr 14 j 20:41 30°R, Mp minimum elong -2321 Sep 27 j 14:25 15° m 57'36 31.30805 AU -2314 Jun 30 j 07:01 28° m 43'23max. Earth dist. direct -2321 Oct 13 j 13:21 16° Mp 33'20 -2314 Sep 09 j 09:04 0∘Ω morning rise -2320 Jan 08 j 13:12 18° Mp 26'11 -2314 Sep 27 j 20:45 0°**£**38'50 retrograde evening set -2320 Mar 27 j 04:19 17° mg 04'13 2°12'40 opposition min. Earth dist. -2320 Mar 27 j 21:27 17° m 03'03 29.30814 AU conjunction -2314 Oct 13 j 01:20 1° 2° 12'56 2° 04'30 direct -2320 Jun 16 j 13:03 15° m 39'47 minimum elong -2314 Oct 13 j 01:20 1° 2° 12'56 2° 04'30 evening set -2320 Sep 14 j 11:22 17° m 35'36 max. Earth dist. -2314 Oct 12 j 12:45 1°**£**11'44 31.29820 AU morning rise -2314 Oct 28 j 04:19 1°**2**46'54 -2320 Sep 29 j 18:04 18° m 09'48 2°04'30 retrograde -2313 Jan 23 j 16:16 3°**△**40'33 conjunction -2320 Sep 29 j 18:04 18° m 09'48 2°04'31 -2313 Apr 12 j 19:20 2°**2**18'23 2°12'41 minimum elong opposition -2320 Sep 29 j 00:06 18° M 08'06 31.30513 AU min. Earth dist. -2313 Apr 13 j 06:36 2°**2**17'38 29.29906 AU max. Earth dist. -2320 Oct 14 j 22:24 18° m 43'48 -2313 Jul 02 j 19:39 0°**£**54'26 morning rise direct -2319 Jan 09 j 22:58 20° m 36'43 2°**△**49'50 retrograde evening set -2313 Sep 30 i 06:17 opposition -2319 Mar 29 j 16:38 19° m 14'41 2°13'15 -2313 Oct 15 i 10:40 3°**£**23'55 2°03'52 min. Earth dist. -2319 Mar 30 i 09:46 19° m 13'31 29.30535 AU conjunction direct -2319 Jun 19 i 00:16 17° m 50'17 minimum elong -2313 Oct 15 i 10:40 3°**£**23'55 2°03'52 evening set -2319 Sep 16 i 21:01 19° m 46'00 max. Earth dist. -2313 Oct 14 i 23:02 3°**2**22'49 31.29672 AU max. Earth dist. -2319 Oct 01 j 10:58 20° m 18'38 31.30250 AU morning rise -2313 Oct 30 j 13:26 3°**£**57'54 retrograde -2312 Jan 26 j 04:22 5°**£**51'41 -2319 Oct 02 j 03:22 20° m/20'10 2°04'57 -2312 Apr 14 j 08:04 4°**£**29'29 2°11'55 conjunction opposition -2312 Apr 14 j 19:49 4°**2**28'41 29.29709 AU minimum elong -2319 Oct 02 j 03:22 20° m 20'10 2°04'57 min. Earth dist. morning rise -2319 Oct 17 j 07:19 20° m 54'10 direct -2312 Jul 04 j 06:59 3°**£**05'36 retrograde -2318 Jan 12 j 08:00 22° m/47'10 evening set -2312 Oct 01 j 15:47 5°**2**00'56 opposition -2318 Apr 01 j 04:54 21° m 25'05 2°13'38 min. Earth dist. -2318 Apr 01 j 20:43 21°Mp24'00 29.30293 AU -2312 Oct 16 j 19:57 5°**△**35'01 2°03'03 conjunction -2318 Jun 21 j 12:47 20° My 00'43-2312 Oct 16 j 19:57 2°03'03 direct minimum elong 5°**£**35'01 -2318 Sep 19 j 06:46 21° My 56'22 -2312 Oct 16 j 08:55 5°**♀**33'59 31.29416 AU evening set max. Earth dist. morning rise -2312 Oct 31 j 22:38 6°**£**09′00 conjunction -2318 Oct 04 j 12:35 22° m/30'31 2°05'13 retrograde -2311 Jan 27 j 14:53 8°**£**02'54 minimum elong -2318 Oct 04 j 12:35 22° m 30'31 2°05'13 opposition -2311 Apr 16 j 20:46 6°**£**40'40 2°10'57 max. Earth dist. -2318 Oct 03 j 20:16 22° m 28'59 31.30053 AU min. Earth dist. -2311 Apr 17 j 06:59 6°**2**39'59 29.29369 AU morning rise -2318 Oct 19 j 16:22 23° m 04'30 direct -2311 Jul 06 j 19:57 5° 216'50 -2317 Jan 14 j 19:14 24° m 57'37 -2311 Oct 04 j 01:19 7°**£**12'06 retrograde evening set -2317 Apr 03 j 17:19 23° m/35'29 2°13'50 opposition

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2311 in astronomical counting style is the year 2312 BCE in historical counting style. -2311 Oct 19 i 05:12 7°**2**46'10 2°02'04 direct -2304 Jul 22 i 05:20 20°**♀**33'20 conjunction -2311 Oct 19 i 05:12 7°**£**46'10 2°02'04 evening set -2304 Oct 18 j 17:34 22°**£**27'49 minimum elong -2311 Oct 18 j 18:11 7°**2**45'08 31.28997 AU max. Earth dist. -2304 Nov 02 j 20:50 -2311 Nov 03 j 07:50 8°<u>₽</u>20'09 conjunction 23°**♀**01'53 1°50'26 morning rise 10°**♀**14'10 -2304 Nov 02 j 20:51 23°**₽**01'53 1°50'25 retrograde -2310 Jan 30 j 01:56 minimum elong -2304 Nov 02 j 16:42 opposition -2310 Apr 19 j 09:41 8°**£**51'52 2°09'49 max. Earth dist. 23°**₽**01'29 31.24362 AU -2304 Nov 17 j 23:42 min. Earth dist. -2310 Apr 19 j 20:04 8°**♀**51'10 29.28880 AU morning rise 23°**£**35'57 -2310 Jul 09 j 07:53 direct 7°**₽**28'05 retrograde -2303 Feb 14 j 05:56 25°**£**30'39 1°56'46 evening set -2310 Oct 06 j 10:43 9°**£**23'14 opposition -2303 May 05 j 03:29 24°**₽**07'46 min. Earth dist. -2303 May 05 j 07:20 24°**£**07'30 29.24237 AU conjunction -2310 Oct 21 j 14:33 9°**2**57'18 2°00'55 direct -2303 Jul 24 j 15:38 22°**₽**44'09 -2310 Oct 21 j 14:33 -2303 Oct 21 j 02:31 minimum elong 9°**₽**57'18 2°00'55 evening set 24° € 38'33 -2310 Oct 21 j 04:54 max. Earth dist. 9°**≏**56'24 31.28441 AU morning rise -2310 Nov 05 j 17:02 10°**£**31'17 conjunction -2303 Nov 05 j 05:48 25°**♀**12'38 1°48'07 retrograde -2309 Feb 01 j 11:54 12°**♀**25'23 minimum elong -2303 Nov 05 j 05:49 25°**♀**12'38 1°48'05 opposition -2309 Apr 21 j 22:33 11°**≏**03'01 2°08'29 max. Earth dist. -2303 Nov 05 j 03:00 25°**£**12'22 31.23904 AU min. Earth dist. -2309 Apr 22 j 07:51 11°**♀**02'23 29.28243 AU morning rise -2303 Nov 20 j 08:46 25°**-**46'43 direct -2309 Jul 11 j 21:28 9°**£**39'15 retrograde -2302 Feb 16 j 17:18 27°**-**41'34 evening set -2309 Oct 08 j 20:03 11°**-**234'17 opposition -2302 May 07 j 16:23 26°**♀**18'39 1°54'12 min. Earth dist. -2302 May 07 j 18:11 26°**2**18'31 29.23782 AU conjunction -2309 Oct 23 j 23:37 12°**₽**08'21 1°59'35 direct -2302 Jul 27 j 04:08 24° £ 55'06 minimum elong -2309 Oct 23 i 23:37 12°**₽**08'21 1°59'34 evening set -2302 Oct 23 j 11:37 26°**-**49′27 max. Earth dist. -2309 Oct 23 i 13:45 12°**2**07'25 31.27755 AU morning rise -2309 Nov 08 j 02:16 12°**-**42′21 conjunction -2302 Nov 07 i 14:50 27°**₽**23'32 1°45'38 retrograde -2308 Feb 03 j 22:56 14°**♀**36'32 -2302 Nov 07 i 14:50 27°**₽**23'33 1°45'37 minimum elong opposition -2308 Apr 23 j 11:23 13°**£**14'03 2°06'59 -2302 Nov 07 j 12:23 27°**2**23'19 31.23461 AU max. Earth dist. -2308 Apr 23 j 20:05 13°**△**13'28 29.27513 AU -2302 Nov 22 j 18:03 min. Earth dist. morning rise 27° £ 57'39 -2308 Jul 13 j 08:13 -2301 Feb 19 i 05:45 11°**Ω**50'17 retrograde 29°**£**52'39 direct -2308 Oct 10 j 05:14 -2301 May 10 j 05:28 13°<u>₽</u>45'11 28°**2**29'42 1°51'28 evening set opposition -2301 May 10 j 07:05 min. Earth dist. 28°**♀**29'35 29.23340 AU -2308 Oct 25 j 08:51 14°**2**19'15 1°58'05 conjunction -2301 Jul 29 j 15:20 27°**£**06'14 direct -2308 Oct 25 j 08:51 -2301 Oct 25 j 20:35 29°**♀**00'31 14°**2**19'15 1°58'04 minimum elong evening set -2308 Oct 25 j 00:50 max. Earth dist. 14°**£**18'29 31.26992 AU -2308 Nov 09 j 11:20 -2301 Nov 10 j 00:00 29°**△**34'38 1°43'00 morning rise 14°**£**53'15 conjunction -2307 Feb 05 j 07:26 -2301 Nov 10 j 00:01 retrograde 16°**♀**47'31 minimum elong 29°**2**34'38 1°42'58 -2307 Apr 26 j 00:05 -2301 Nov 09 j 23:20 opposition 15°**£**24'56 2°05'17 max. Earth dist. 29°**△**34'34 31.23006 AU min. Earth dist. -2307 Apr 26 j 08:12 15°**£**24'23 29.26727 AU -2301 Nov 21 j 04:53 0°M direct -2307 Jul 15 j 20:35 14°**£**01'10 morning rise -2301 Nov 25 j 03:17 0°ML08'46 -2307 Oct 12 j 14:29 15°**♀**55'56 retrograde -2300 Feb 21 j 16:46 2°ML03'54 evening set opposition -2300 May 11 j 18:30 0°M40'56 1°48'34 conjunction -2307 Oct 27 j 17:49 16°**2**30'00 1°56'26 min. Earth dist. -2300 May 11 j 18:53 0°M40'54 29.22840 AU -2307 Oct 27 j 17:49 16°**♀**30'00 1°56'24 -2300 Jun 07 j 04:19 30°**Ŗ**Ω minimum elong -2307 Oct 27 j 09:49 16°**£**29'15 31.26223 AU -2300 Jul 31 j 04:26 29°**♀**17'33 max. Earth dist. direct -2307 Nov 11 j 20:29 17°**♀**04'01 -2300 Sep 20 j 10:36 morning rise 0°M -2306 Feb 07 j 19:16 18°**≏**58'22 -2300 Oct 27 j 05:52 retrograde evening set 1°M11'46 opposition -2306 Apr 28 j 12:54 17°**△**35'41 2°03'25 -2300 Nov 11 j 09:10 min. Earth dist. -2306 Apr 28 j 19:16 17°**2**35'15 29.25981 AU conjunction 1°M45'53 1°40'12 direct -2306 Jul 18 i 06:39 16°**£**11'55 minimum elong -2300 Nov 11 i 09:10 1°M45'53 1°40'10 evening set -2306 Oct 14 j 23:26 18°**♀**06'35 max. Earth dist. -2300 Nov 11 i 08:14 1°M45'48 31.22471 AU -2300 Nov 26 i 12:46 2°M20'04 morning rise -2306 Oct 30 i 02:49 18°**£**40'38 1°54'36 -2299 Feb 23 j 04:45 4°ML15'21 conjunction retrograde -2306 Oct 30 i 02:49 18°**£**40'38 1°54'34 -2299 May 14 i 07:31 2°ML52'20 1°45'30 minimum elong opposition max. Earth dist. -2306 Oct 29 j 20:45 18°**△**40'04 31.25507 AU min. Earth dist. -2299 May 14 j 07:20 2°M 52'20 29.22259 AU morning rise -2306 Nov 14 j 05:24 19°**₽**14'40 direct -2299 Aug 02 j 14:46 1°M29'01 retrograde -2305 Feb 10 j 05:24 21°**₽**09'08 evening set -2299 Oct 29 j 15:03 3°M23'09 -2305 May 01 j 01:53 19°**≏**46'21 2°01'23 opposition 3°ML57'18 1°37'16 min. Earth dist. -2305 May 01 j 07:55 19°**♀**45'57 29.25306 AU conjunction -2299 Nov 13 j 18:35 -2305 Jul 20 j 18:02 -2299 Nov 13 j 18:35 3°ML57'18 1°37'14 direct 18°**£**22'37 minimum elong -2305 Oct 17 j 08:33 20°**£**17'11 -2299 Nov 13 j 19:22 3°M57'23 31.21831 AU evening set max. Earth dist. morning rise -2299 Nov 28 j 22:14 4°M31'31 -2305 Nov 01 j 11:49 -2298 Feb 25 j 14:22 conjunction 20°**£**51'14 1°52'36 retrograde 6°M26'56 minimum elong -2305 Nov 01 j 11:49 20°**♀**51'14 1°52'35 opposition -2298 May 16 j 20:47 5°**™**03'52 1°42'18 max. Earth dist. -2305 Nov 01 j 06:26 20°**£**50'44 31.24893 AU min. Earth dist. -2298 May 16 j 20:06 5°M03'54 29.21547 AU morning rise -2305 Nov 16 j 14:35 21°**£**25′17 direct -2298 Aug 05 j 03:07 3°M40'36 retrograde -2304 Feb 12 j 17:56 23°**₽**19'51 evening set -2298 Nov 01 j 00:17 5°M34'39 -2304 May 02 j 14:31 21°**♀**57'01 opposition 1°59'10 -2304 May 02 j 18:25 21°**♀**56'45 29.24733 AU -2298 Nov 16 j 03:47 6°ML08'49 1°34'12 min. Earth dist. conjunction

Planetary Pheno	omena of Neptune f	rom -2400	through -1898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 9
Attention, astronom	nical year style is used: Th	e year -2298	in astronomical co	unting style is the year	r 2299 BCE in historical c	ounting style.	
minimum elong	-2298 Nov 16 j 03:48	6° M 08'49	1°34'10	morning rise	-2292 Dec 13 j 17:27	19°M52'05	
max. Earth dist.	-2298 Nov 16 j 04:18	6°M08'52	31.21069 AU	retrograde	-2291 Mar 13 j 03:02	21°M48'17	
morning rise	-2298 Dec 01 j 07:51	6°M43'03		opposition	-2291 Jun 01 j 16:20	20°M24'37	1°16'00
retrograde	-2297 Feb 28 j 03:05	8°M38'36		min. Earth dist.	-2291 Jun 01 j 08:28	20°M25'09	29.15239 AU
opposition	-2297 May 19 j 09:58	7°M15'28	1°38'56	direct	-2291 Aug 20 j 10:32	19°M01'30	
min. Earth dist.	-2297 May 19 j 07:57	7°M15'36	29.20716 AU	evening set	-2291 Nov 15 j 16:11	20°M54'54	
direct	-2297 Aug 07 j 13:20	5°M52'14		Ü	,		
evening set	-2297 Nov 03 j 09:29	7° M .46'11		conjunction	-2291 Nov 30 j 20:59	21°M29'13	1°09'10
8				minimum elong	-2291 Nov 30 j 21:00	21°M29'13	1°09'07
conjunction	-2297 Nov 18 j 13:15	8°M20'22	1°31'00	max. Earth dist.	-2291 Dec 01 j 04:24		31.14862 AU
minimum elong	-2297 Nov 18 j 13:16	8°M20'23	1°30'58	morning rise	-2291 Dec 16 j 03:19	22°M03'41	51.14002 710
max. Earth dist.	-2297 Nov 18 j 15:07		31.20175 AU	retrograde	-2290 Mar 15 j 15:29	24°M00'01	
morning rise	-2297 Dec 03 j 17:29	8°M54'39	31.201/3 AO	opposition	-2290 Jun 04 j 05:29	22°M36'18	1°11'45
•	v	10°M50'18		min. Earth dist.	•		29.14595 AU
retrograde	-2296 Mar 01 j 13:29		1925127		-2290 Jun 03 j 20:41	21°M13'14	29.14393 AU
opposition	-2296 May 20 j 23:03	9°M27'04		direct	-2290 Aug 22 j 20:40		
min. Earth dist.	-2296 May 20 j 21:13		29.19764 AU	evening set	-2290 Nov 18 j 01:13	23°M06'34	
direct	-2296 Aug 09 j 00:45	8°M03'52					
evening set	-2296 Nov 04 j 18:41	9° M 57'42		conjunction	-2290 Dec 03 j 06:27	23°M40'55	1°05'08
				minimum elong	-2290 Dec 03 j 06:27	23°M40'55	1°05'05
conjunction	-2296 Nov 19 j 22:34	10°M31'54		max. Earth dist.	-2290 Dec 03 j 15:56		31.14243 AU
minimum elong	-2296 Nov 19 j 22:34	10°M31'54	1°27'37	morning rise	-2290 Dec 18 j 13:02	24°M15'26	
max. Earth dist.	-2296 Nov 20 j 00:53	10°M32′07	31.19199 AU	retrograde	-2289 Mar 18 j 01:51	26°M11′53	
morning rise	-2296 Dec 05 j 03:10	11°M06'12		opposition	-2289 Jun 06 j 18:39	24°M48'09	1°07'23
retrograde	-2295 Mar 04 j 02:12	13°M01'58		min. Earth dist.	-2289 Jun 06 j 09:08	24°M48'47	29.13983 AU
opposition	-2295 May 23 j 12:06	11°M38'38	1°31'49	direct	-2289 Aug 25 j 09:30	23°M25'09	
min. Earth dist.	-2295 May 23 j 08:25	11°M38'53	29.18755 AU	evening set	-2289 Nov 20 j 10:39	25° ™ 18'25	
direct	-2295 Aug 11 j 11:58	10°M15'25					
evening set	-2295 Nov 07 j 03:42	12°M09'09		conjunction	-2289 Dec 05 j 16:02	25°M52'48	1°01'00
				minimum elong	-2289 Dec 05 j 16:02	25°M52'48	1°00'57
conjunction	-2295 Nov 22 j 07:44	12°M43'22	1°24'12	max. Earth dist.	-2289 Dec 06 j 01:29	25°M53'42	31.13649 AU
minimum elong	-2295 Nov 22 j 07:44	12°M43'22	1°24'09	morning rise	-2289 Dec 20 j 23:09	26°M27'21	
max. Earth dist.	-2295 Nov 22 j 11:05		31.18180 AU	retrograde	-2288 Mar 19 j 15:28	28°M23'57	
morning rise	-2295 Dec 07 j 12:37	13°M17'42		opposition	-2288 Jun 08 j 07:37	27°M00'10	1°02'54
	-2294 Feb 05 j 20:32	15°M		min. Earth dist.	-2288 Jun 07 j 20:46		29.13378 AU
retrograde	-2294 Mar 06 j 14:10	15°M13'34		direct	-2288 Aug 26 j 19:57	25°M37'13	27.13370110
retrograde	-2294 Apr 05 j 00:55	15°RM		evening set	-2288 Nov 21 j 20:05	27°M30'27	
opposition	-2294 May 26 j 01:20	13°M50'08	1°28'03	evening set	2200 NOV 21 j 20.03	27 1103027	
min. Earth dist.	-2294 May 25 j 21:39		29.17750 AU	conjunction	-2288 Dec 07 j 01:48	28°M04'51	0°56'46
direct	, ,	13 IL 30 23	29.17730 AU	-	-2288 Dec 07 j 01:48	28°M04'51	0°56'43
	-2294 Aug 13 j 21:45			minimum elong			
evening set	-2294 Nov 09 j 12:46	14°M20'33		max. Earth dist.	-2288 Dec 07 j 12:35		31.13016 AU
				morning rise	-2288 Dec 22 j 09:13	28°M39'27	
conjunction	-2294 Nov 24 j 17:03	14°M54'47	1°20'37		-2287 Feb 02 j 13:51	0° ∡ 7	
minimum elong	-2294 Nov 24 j 17:03	14°M54'47		retrograde	-2287 Mar 22 j 01:56	0° ∡ 36′11	
max. Earth dist.	-2294 Nov 24 j 21:53		31.17213 AU		-2287 May 10 j 16:50	30°RM	
	-2294 Nov 26 j 23:59	15° M ₊		opposition	-2287 Jun 10 j 20:54	29°M12'22	
morning rise	-2294 Dec 09 j 22:12	15°M29'09		min. Earth dist.	-2287 Jun 10 j 10:13		29.12710 AU
retrograde	-2293 Mar 09 j 02:02	17°M25'07		direct	-2287 Aug 29 j 07:08	27°M49'29	
opposition	-2293 May 28 j 14:18	16°M01'35	1°24'09	evening set	-2287 Nov 24 j 05:33	29°M42'38	
min. Earth dist.	-2293 May 28 j 08:27	16°M01'59	29.16814 AU		-2287 Dec 01 j 23:21	0° ∡	
	-2293 Jul 10 j 05:24	15°RML					
direct	-2293 Aug 16 j 10:23	14°M38'23		conjunction	-2287 Dec 09 j 11:32	0° ∡ 17'04	0°52'27
	-2293 Sep 21 j 13:12	15°M₊		minimum elong	-2287 Dec 09 j 11:32	0° ∡ 17'04	0°52'24
evening set	-2293 Nov 11 j 21:53	16°M31'56		max. Earth dist.	-2287 Dec 09 j 22:47	0° ∡ 18′08	31.12317 AU
				morning rise	-2287 Dec 24 j 19:23	0° ∡ 751'43	
conjunction	-2293 Nov 27 j 02:16	17°ML06'12	1°16'55	retrograde	-2286 Mar 24 j 14:47	2° ∡ ¹48'34	
minimum elong	-2293 Nov 27 j 02:16	17° M .06'12		opposition	-2286 Jun 13 j 10:08	1° ₹ 24'42	0°53'41
max. Earth dist.	-2293 Nov 27 j 07:30	17°ML06'42	31.16326 AU	min. Earth dist.	-2286 Jun 12 j 21:52	1° ∡ ¹25'32	29.11951 AU
morning rise	-2293 Dec 12 j 07:53	17°M40'36	-	direct	-2286 Aug 31 j 17:56	0° ₹ '01'51	-
retrograde	-2292 Mar 10 j 15:28	19°M36'40		evening set	-2286 Nov 26 j 15:17	1° ₹ 54'57	
opposition	-2292 May 30 j 03:23	18°M13'04	1°20'08	- · 5 000		- 7. 010/	
min. Earth dist.	-2292 May 29 j 21:07		29.15982 AU	conjunction	-2286 Dec 11 j 21:31	2° ₹ 29'25	0°48'04
direct	-2292 May 29 j 21:07 -2292 Aug 17 j 21:35	16°M49'54	27.13702 AU	minimum elong	-2286 Dec 11 j 21:31	2° x ⁷ 29'25	
evening set	-2292 Nov 13 j 06:55	18°M43'22		max. Earth dist.	-2286 Dec 11 j 21:31 -2286 Dec 12 j 09:10		31.11492 AU
evening set	-2272 INOV 13 J U0.33	10 11643 22		max. Earth dist.	-2286 Dec 12 j 05:10 -2286 Dec 27 j 05:50	3° ₹ '30'31	51.11774 AU
conjunction	2202 Nov. 20 : 11:20	100 m 17120	1012106	-			
conjunction	-2292 Nov 28 j 11:39	19°M 17'39		retrograde	-2285 Mar 27 j 03:07	5°×701'05	0040157
minimum elong	-2292 Nov 28 j 11:39	19°M 17'39		opposition	-2285 Jun 15 j 23:26	3° ₹ 37'08	0°48'56
max. Earth dist.	-2292 Nov 28 j 18:58	17 1161821	31.15547 AU	min. Earth dist.	-2285 Jun 15 j 11:44	3 X.3/.30	29.11066 AU

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2285 in astronomical counting style is the year 2286 BCE in historical counting style. direct -2285 Sep 03 i 03:29 2°**х** 14′18 max. Earth dist. -2279 Dec 27 j 13:35 17° ₹ 57'48 31.04250 AU -2285 Nov 29 j 00:55 4°**₹**07'20 -2278 Jan 11 j 07:38 18°**∡**31'07 evening set morning rise -2278 Apr 11 j 18:52 20°**х** 28'46 retrograde 4°**∡**1'50 0°43'36 -2278 Jul 01 j 19:00 -2285 Dec 14 j 07:37 19°**∡**04'17 0°14'10 conjunction opposition -2285 Dec 14 j 07:37 4°**∡**°41'50 -2278 Jul 01 j 01:42 19° ₹05'28 29.03868 AU minimum elong 0°43'33 min. Earth dist. -2285 Dec 14 j 20:13 max. Earth dist. 4°**∡**43'01 31.10547 AU direct -2278 Sep 18 j 13:38 17°**х** 41′27 -2278 Dec 13 j 21:25 19°**∡**34'06 morning rise -2285 Dec 29 j 16:18 5°**х** 16'33 evening set 7°**х¹**13'37 retrograde -2284 Mar 28 j 15:58 20°**∡**08'49 opposition -2284 Jun 17 j 12:35 5°**х** 49'36 0°44'08 conjunction -2278 Dec 29 j 06:33 0°10'57 min. Earth dist. -2284 Jun 16 j 23:20 5°**尽**50'30 29.10043 AU minimum elong -2278 Dec 29 j 06:32 20°**х** 08′49 0°10'54 direct -2284 Sep 04 j 16:10 4°**∡**¹26'45 behind sun begin -2278 Dec 29 j 01:38 20°**х** 08′22 6°**х** 19'43 -2278 Dec 29 j 11:27 evening set -2284 Nov 30 j 10:41 behind sun end 20°×709'16 20° ₹ 10'32 31.03475 AU max. Earth dist. -2278 Dec 30 j 00:42 conjunction -2284 Dec 15 j 17:33 6°**∡**154'14 0°39'04 morning rise -2277 Jan 13 j 18:30 20°**х** 43'49 minimum elong -2284 Dec 15 j 17:33 6°**∡**¹54'14 0°39'01 retrograde -2277 Apr 14 j 07:45 22°**∡**′41′36 max. Earth dist. -2284 Dec 16 j 05:54 6°**≯**55'24 31.09470 AU opposition -2277 Jul 04 j 07:48 21°**渘**17′06 0°09'02 morning rise -2284 Dec 31 j 02:48 7°×29'00 min. Earth dist. -2277 Jul 03 j 12:51 21°**渘**18′23 29.03126 AU retrograde -2283 Mar 31 j 05:49 9°**х** 26′10 -2277 Sep 21 j 00:03 19°**∡**754'17 opposition -2283 Jun 20 j 01:49 8°**∡**°02'03 0°39'16 evening set -2277 Dec 16 j 07:34 21°**х** 46′56 min. Earth dist. -2283 Jun 19 j 12:45 8°**✗**02'56 29.08927 AU direct -2283 Sep 07 j 03:03 6°**х** 39′11 conjunction -2277 Dec 31 j 16:59 22°**渘**¹21'41 0°06'10 evening set -2283 Dec 02 j 20:19 8°**х** 32′04 minimum elong -2277 Dec 31 i 17:00 22°**×**21'41 0°06'06 behind sun begin -2277 Dec 31 i 10:53 22°**х** 21′08 conjunction -2283 Dec 18 j 03:41 9°**х** 06'37 0°34'29 behind sun end -2277 Dec 31 i 23:06 22°×722'14 -2283 Dec 18 j 03:41 9°**х** 06'37 0°34'25 max. Earth dist. -2276 Jan 01 j 11:41 22°**尽**23'27 31.02751 AU minimum elong -2283 Dec 18 j 17:48 9°**₹**07'57 31.08333 AU -2276 Jan 16 j 05:30 max. Earth dist. morning rise 22° ×7 56'44 -2282 Jan 02 j 13:14 9°**х** 41′25 -2276 Apr 15 j 20:13 24°×754'39 morning rise retrograde -2282 Apr 02 j 17:53 11°**∡**′38′40 -2276 Jul 05 j 20:51 23°**∡** 30′07 retrograde opposition 0°03'54 -2282 Jun 22 j 14:56 -2276 Jul 05 j 02:22 23°**尽**31'23 29.02422 AU 10°**∡**14'27 0°34'20 min. Earth dist. opposition -2282 Jun 22 j 00:35 -2276 Sep 22 j 08:53 22°× 07'21 min. Earth dist. 10°**✗**15'25 29.07774 AU direct -2276 Dec 17 j 17:41 24°**₹**00'00 -2282 Sep 09 j 15:58 8°**х** 51'33 direct evening set 10°**∡**¹44′22 -2282 Dec 05 j 06:03 evening set -2275 Jan 02 j 03:36 24°**₹**34'47 0°01'19 conjunction -2275 Jan 02 j 03:35 -2282 Dec 20 j 13:37 11°**≯**18'57 0°29'51 24°**₹**34'47 0°01'16 conjunction minimum elong -2282 Dec 20 j 13:37 -2275 Jan 01 j 21:10 24°**х** 34′12 minimum elong 11°**✓**18'57 0°29'48 behind sun begin -2282 Dec 21 j 03:36 -2275 Jan 02 j 10:00 24°**₹**35'22 max. Earth dist. 11°**≯**20′16 31.07196 AU behind sun end 24°**✗**36'39 31.02054 AU -2281 Jan 04 j 23:49 -2275 Jan 02 j 23:27 morning rise 11°**х** 53′47 max. Earth dist. retrograde -2281 Apr 05 j 07:08 13°**х** 51′08 morning rise -2275 Jan 17 j 16:25 25°**х** 09′52 opposition -2281 Jun 25 j 04:03 12°**х** 26′49 0°29'21 desc. node -2275 Apr 09 j 13:09 27°**₹**06'37 min. Earth dist. -2281 Jun 24 j 13:04 12°**✗**27′50 29.06665 AU retrograde -2275 Apr 18 j 09:22 27°**х** 07′54 -2281 Sep 12 j 02:35 11°**х** 03′55 opposition -2275 Jul 08 j 09:44 25°**∡**143'22 -0°01'16 direct -2281 Dec 07 j 15:49 12°**х** 56'40 min. Earth dist. -2275 Jul 07 j 13:45 25°**⊀**'44'44 29.01711 AU evening set -2275 Sep 24 j 21:05 24°**≯**20'38 direct -2281 Dec 22 j 23:52 13°**∡**31'17 0°25'11 -2275 Dec 20 j 04:10 26°**х¹**13′17 conjunction evening set -2281 Dec 22 j 23:52 minimum elong 13°**∡**31'17 0°25'07 -2281 Dec 23 i 15:44 -2274 Jan 04 i 14:17 26°**х** 48′05 -0°03′37 max. Earth dist. 13°**尽**32'47 31.06112 AU conjunction -2280 Jan 07 j 10:21 -2274 Jan 04 i 14:17 morning rise 14°**∡**06'09 minimum elong 26°**х** 48′05 0°03'41 -2274 Jan 04 i 07:54 26°**х** 47′31 retrograde -2280 Apr 06 j 18:20 16°**х** 03′35 behind sun begin opposition -2280 Jun 26 i 16:55 14°**∡**39'12 0°24'20 behind sun end -2274 Jan 04 i 20:39 26°**х** 48′40 min. Earth dist. -2280 Jun 26 j 01:14 14°**⊀**⁷40′16 29.05623 AU max. Earth dist. -2274 Jan 05 i 09:45 26° ₹ 49'56 31.01321 AU morning rise -2280 Sep 13 j 15:38 13°**∡**16'18 -2274 Jan 20 j 03:44 27°×23'13 direct -2280 Dec 09 j 01:42 15°**₹**'09'01 retrograde -2274 Apr 20 j 23:48 29°**х** 21'23 evening set -2274 Jul 10 j 22:49 27° \$\frac{7}{56}'48 -0°06'25 opposition 27°**≯** 58'08 29.00957 AU conjunction -2280 Dec 24 j 10:00 15°**∡**'43'40 0°20'28 min. Earth dist. -2274 Jul 10 j 03:17 -2274 Sep 27 j 06:49 26°**х** 34′05 minimum elong -2280 Dec 24 j 10:00 15°**∡**¹43'40 0°20'25 direct max. Earth dist. -2280 Dec 25 j 01:56 15°**✗¹**45'10 31.05131 AU evening set -2274 Dec 22 j 14:38 28°**х** 26'44 -2279 Jan 08 j 21:03 16°**∡**18'35 morning rise -2279 Apr 09 j 08:28 18°**х** 16′07 -2273 Jan 07 j 01:20 29°**₹**01'35 -0°08'25 retrograde conjunction -2279 Jun 29 j 05:54 16°**х** 51′40 0°19'16 -2273 Jan 07 j 01:20 29°**х** 01'35 0°08'28 opposition minimum elong -2279 Jun 28 j 12:42 16°**₹**52'50 29.04698 AU -2273 Jan 06 j 19:40 29°**х** 01′04 min. Earth dist. behind sun begin 15°**х** 28'47 -2273 Jan 07 j 06:59 direct -2279 Sep 16 j 02:28 behind sun end 29°**х** 02′06 evening set -2279 Dec 11 j 11:27 17°**∡** 21′28 max. Earth dist. -2273 Jan 07 j 22:09 29°**✗**03'33 31.00518 AU morning rise -2273 Jan 22 j 15:06 29°**х** 36'45 conjunction -2279 Dec 26 j 20:09 17°**₹**56'09 0°15'43 -2273 Feb 02 j 08:53 0°ಕ minimum elong -2279 Dec 26 j 20:10 17°**₹**56'09 0°15'40 retrograde -2273 Apr 23 j 12:36 1°る35'00 behind sun begin -2279 Dec 26 j 18:28 17°**∡** 56′00 -2273 Jul 13 j 11:46 0°る10'23 -0°11'34 opposition -2279 Dec 26 j 21:51 17°**∡**756′18 min. Earth dist. -2273 Jul 12 j 15:28 0°る11'46 29.00093 AU behind sun end

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2273 in astronomical counting style is the year 2274 BCE in historical counting style. -2273 Jul 19 i 19:33 30°R*x*7 conjunction -2266 Jan 22 j 07:42 14°る35'48 -0°41'23 -2273 Sep 29 j 18:58 28°**х** 47′39 minimum elong -2266 Jan 22 j 07:42 14°る35'48 0°41'26 direct -2273 Dec 05 j 22:04 0°궁 -2266 Jan 23 j 07:31 14°る38'03 30.93365 AU max. Earth dist. -2273 Dec 25 j 01:26 0°る40'18 -2266 Feb 07 j 00:45 15°る11'12 evening set morning rise -2266 May 09 j 06:41 17°る09'50 retrograde conjunction -2266 Jul 28 j 05:27 15°る46'16 28.93031 AU -2272 Jan 09 j 12:22 1°る15'10 -0°13'13 min. Earth dist. -2266 Jul 29 j 04:49 -0°46'43 minimum elong -2272 Jan 09 j 12:22 1°る15'10 0°13'16 opposition 15°**る**44'39 -2272 Jan 09 j 08:34 behind sun begin 1°る14'50 direct -2266 Oct 15 j 04:19 14°る21'38 -2265 Jan 09 j 05:19 behind sun end -2272 Jan 09 j 16:10 1°る15'31 evening set 16°**ප**14'07 max. Earth dist. -2272 Jan 10 j 08:20 1°る17'04 30.99597 AU morning rise -2272 Jan 25 j 02:46 1°る50'23 conjunction -2265 Jan 24 j 19:06 16°る49'12 -0°45'54 3°る48'43 -2265 Jan 24 j 19:06 16°る49'12 0°45'57 retrograde -2272 Apr 25 j 03:05 minimum elong -2265 Jan 25 j 18:35 min. Earth dist. -2272 Jul 14 j 04:27 2°る25'24 28.99118 AU max. Earth dist. 16°る51'25 30.92640 AU opposition -2272 Jul 15 j 00:39 2°る24'01 -0°16'42 morning rise -2265 Feb 09 j 12:47 17°る24'38 direct -2272 Oct 01 j 05:48 1°**る**01'16 retrograde -2265 May 11 j 20:04 19°る23'20 evening set -2272 Dec 26 j 12:07 2°**る**53'53 opposition -2265 Jul 31 j 17:26 17°る58'08 -0°51'31 min. Earth dist. -2265 Jul 30 j 18:23 17°る59'43 28.92378 AU conjunction -2271 Jan 10 j 23:35 3°る28'48 -0°18'00 direct -2265 Oct 17 j 13:31 16°る35'07 minimum elong -2271 Jan 10 j 23:35 3°る28'48 0°18'03 evening set -2264 Jan 11 j 16:27 18°る27'38 max. Earth dist. -2271 Jan 11 j 20:46 3°る30'48 30.98558 AU morning rise -2271 Jan 26 j 14:19 4°₹04'02 conjunction -2264 Jan 27 j 06:48 19°る02'44 -0°50'22 retrograde -2271 Apr 27 j 16:02 6°る02'25 minimum elong -2264 Jan 27 i 06:48 19°る02'44 0°50'26 opposition -2271 Jul 17 i 13:37 4°る37'38 -0°21'49 max. Earth dist. -2264 Jan 28 i 07:49 19°る05'06 30.92037 AU min. Earth dist. -2271 Jul 16 j 17:16 4°る39'02 28.98029 AU morning rise -2264 Feb 12 i 00:44 19°る38'12 -2271 Oct 03 j 19:28 3°る14'51 retrograde -2264 May 13 j 08:50 21°る36'59 direct evening set -2271 Dec 28 j 22:47 5°る07'24 -2264 Aug 01 j 05:47 20°る13'26 28.91821 AU min. Earth dist. opposition -2264 Aug 02 j 05:45 20°る11'46 -0°56'15 -2270 Jan 13 j 10:35 5°る42'21 -0°22'45 -2264 Oct 19 j 00:55 18°る48'46 conjunction direct -2270 Jan 13 j 10:35 -2263 Jan 13 j 03:51 20°る41'20 5°る42'21 0°22'49 minimum elong evening set -2270 Jan 14 j 07:21 5°る44'19 30.97446 AU max. Earth dist. -2270 Jan 29 j 01:55 -2263 Jan 28 j 18:27 21°る16'28 -0°54'45 6°る17'38 conjunction morning rise retrograde -2270 Apr 30 j 06:12 -2263 Jan 28 j 18:26 8°**ප**16'04 minimum elong 21°る16'28 0°54'48 -2270 Jul 19 j 05:17 -2263 Jan 29 j 18:49 21°る18'46 30.91523 AU 6°る52'38 28.96901 AU max. Earth dist. min. Earth dist. -2270 Jul 20 j 02:27 6°る51'11 -0°26'53 -2263 Feb 13 j 12:59 21°**る**51'58 opposition morning rise -2270 Oct 06 j 07:02 5°る28'19 -2263 May 15 j 23:51 23°**る**50'50 direct retrograde -2270 Dec 31 j 09:36 7°る20'51 -2263 Aug 04 j 18:18 22°る25'38 -1°00'54 evening set opposition 22°る27'17 28.91347 AU min. Earth dist. -2263 Aug 03 j 18:23 conjunction -2269 Jan 15 j 21:50 7°る55'49 -0°27'28 direct -2263 Oct 21 j 11:05 21°る02'39 minimum elong -2269 Jan 15 j 21:50 7°る55'49 0°27'31 evening set -2262 Jan 15 j 15:12 22°る55'16 max. Earth dist. -2269 Jan 16 j 19:34 7°る57'52 30.96304 AU morning rise -2269 Jan 31 j 13:36 8°る31'08 conjunction -2262 Jan 31 j 06:20 23°る30'26 -0°59'04 retrograde -2269 May 02 j 17:06 10°る29'35 -2262 Jan 31 j 06:19 23°る30'26 0°59'07 minimum elong -2269 Jul 22 j 15:07 9°る04'37 -0°31'55 max. Earth dist. -2262 Feb 01 j 08:00 23°る32'52 30.91051 AU opposition min. Earth dist. -2269 Jul 21 j 18:18 9°る06'03 28.95780 AU -2262 Feb 16 j 01:10 24°る05'58 morning rise -2269 Oct 08 j 18:57 7°る41'42 -2262 May 18 j 13:35 26°**る**04'55 direct retrograde 9°**ප**34'11 24°る41'22 28.90875 AU evening set -2268 Jan 02 j 20:26 min. Earth dist. -2262 Aug 06 i 06:58 24°る39'43 -1°05'28 opposition -2262 Aug 07 j 06:48 -2268 Jan 18 j 09:07 10°る09'11 -0°32'09 conjunction direct -2262 Oct 23 i 23:50 23°る16'46 minimum elong -2268 Jan 18 i 09:07 10°る09'11 0°32'13 evening set -2261 Jan 18 j 02:59 25°る09'26 max. Earth dist. -2268 Jan 19 i 07:17 10°る11'17 30.95219 AU conjunction -2268 Feb 03 i 01:19 10°₹44'31 -2261 Feb 02 i 18:27 25°**ප්**44'38 -1°03'18 morning rise -2268 May 04 j 06:24 12°る43'01 minimum elong -2261 Feb 02 i 18:27 25°る44'38 1°03'20 retrograde -2268 Jul 23 j 05:25 11°る19'30 28.94742 AU max. Earth dist. -2261 Feb 03 j 19:17 25°る46'59 30.90569 AU min. Earth dist. 11°る17'57 -0°36'54 opposition -2268 Jul 24 j 03:41 morning rise -2261 Feb 18 j 13:49 26°る20'12 direct -2268 Oct 10 j 06:35 9°る55'00 retrograde -2261 May 21 j 04:31 28°る19'13 evening set -2267 Jan 04 j 07:17 11°**る**47'28 opposition -2261 Aug 09 j 19:07 26°る54'02 -1°09'57 min. Earth dist. -2261 Aug 08 j 18:59 26°る55'42 28.90374 AU -2267 Jan 19 j 20:15 12°る22'29 -0°36'48 -2261 Oct 26 j 10:50 25°る31'04 conjunction direct -2267 Jan 19 j 20:15 12°る22'29 0°36'51 -2260 Jan 20 j 14:53 27°**る**23'47 minimum elong evening set -2267 Jan 20 j 18:51 12°る24'37 30.94220 AU max. Earth dist. -2267 Feb 04 j 12:57 12°**る**57'51 -2260 Feb 05 j 06:46 27°る59'02 -1°07'26 morning rise conjunction retrograde -2267 May 06 j 18:19 14°**ප**56'26 minimum elong -2260 Feb 05 j 06:46 27°**る**59'02 1°07'29 opposition -2267 Jul 26 j 16:23 13°る31'17 -0°41'50 max. Earth dist. -2260 Feb 06 j 07:56 28°る01'24 30.90010 AU min. Earth dist. -2267 Jul 25 j 18:34 13°る32'48 28.93816 AU morning rise -2260 Feb 21 j 02:30 28°る34'38 direct -2267 Oct 12 j 16:29 12°**る**08'18 -2260 Apr 06 j 13:24 0°≈ -2266 Jan 06 j 18:11 14°る00'45 -2260 May 22 j 17:10 0°≈33'42 evening set retrograde

-2260 Jul 09 j 01:52

30°Ŗる

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2260 in astronomical counting style is the year 2261 BCE in historical counting style. -2260 Aug 10 j 08:22 29°る10'07 28.89775 AU minimum elong -2253 Feb 20 i 22:26 13°≈40'18 1°33'13 min. Earth dist. -2260 Aug 11 j 07:37 29°**ප්**08'30 -1°14'18 max. Earth dist. -2253 Feb 22 j 00:09 13°≈42'43 30.85474 AU opposition -2260 Oct 27 j 22:47 27°₹45'31 -2253 Mar 08 j 20:57 14°≈16'03 direct morning rise -2259 Jan 22 j 02:42 29°る38'17 -2253 Mar 29 j 22:16 15°≈ evening set -2259 Jan 31 j 19:44 0°≈ retrograde -2253 Jun 08 j 11:33 16°≈15'10 -2253 Aug 21 j 16:58 15°R≈ -2259 Feb 06 j 19:01 conjunction 0°≈13'32 -1°11'28 opposition -2253 Aug 27 j 20:22 14°≈49'42 -1°41'23 0°≈13'32 1°11'30 minimum elong -2259 Feb 06 j 19:01 min. Earth dist. -2253 Aug 26 j 21:02 14°≈51'20 28.85431 AU 13°≈26'22 max. Earth dist. -2259 Feb 07 j 19:55 0°≈15'54 30.89368 AU direct -2253 Nov 13 j 05:14 morning rise -2259 Feb 22 j 15:09 0°≈49'10 -2252 Jan 29 j 16:53 15°≈ retrograde -2259 May 25 j 08:06 2°≈48'17 evening set -2252 Feb 07 j 16:04 15°≈19'21 opposition -2259 Aug 13 j 20:01 1°≈23'02 -1°18'34 -2252 Feb 23 j 11:14 min. Earth dist. -2259 Aug 12 j 20:00 1°≈24'42 28.89088 AU conjunction 15°≈54'46 -1°36'21 direct -2259 Oct 30 j 11:03 0°≈00'01 minimum elong -2252 Feb 23 j 11:14 15°**≈**54'46 1°36'23 evening set -2258 Jan 24 j 14:47 1°≈52'48 max. Earth dist. -2252 Feb 24 j 12:07 15°≈57'07 30.85203 AU morning rise -2252 Mar 10 j 10:14 16°≈30'32 conjunction -2258 Feb 09 j 07:27 2°≈28'06 -1°15'23 retrograde -2252 Jun 10 j 02:13 18°≈29'40 minimum elong -2258 Feb 09 j 07:26 2°≈28'06 1°15'26 min. Earth dist. -2252 Aug 28 j 08:30 17°≈05'52 28.85231 AU max. Earth dist. -2258 Feb 10 j 08:00 2°≈30'25 30.88633 AU opposition -2252 Aug 29 j 08:16 17°≈04'12 -1°44'41 morning rise -2258 Feb 25 j 04:04 3°≈03'45 direct -2252 Nov 14 j 15:47 15°≈40'51 retrograde -2258 May 27 j 20:15 5°≈02'53 evening set -2251 Feb 09 j 04:28 17°≈33'54 min. Earth dist. -2258 Aug 15 i 09:35 3°≈39'10 28.88336 AU opposition -2258 Aug 16 j 08:21 3°≈37'35 -1°22'42 conjunction -2251 Feb 25 i 00:03 18°≈09'20 -1°39'22 direct -2258 Nov 01 j 21:31 2°≈14'31 minimum elong -2251 Feb 25 i 00:03 18°**≈**09'20 1°39'23 -2257 Jan 27 j 02:46 4°≈07'19 max. Earth dist. -2251 Feb 26 i 01:34 18°≈11'44 30.85047 AU evening set -2251 Mar 12 j 23:22 18°≈45'08 morning rise -2257 Feb 11 j 20:00 4°≈42'37 -1°19'12 -2251 Jun 12 j 15:34 conjunction retrograde 20°≈44'16 4°≈42'37 1°19'14 -2251 Aug 31 j 20:14 19°≈18'50 -1°47'50 -2257 Feb 11 j 20:00 opposition minimum elong -2251 Aug 30 j 21:13 max. Earth dist. -2257 Feb 12 j 21:04 4°≈44'59 30.87870 AU min. Earth dist. 19°≈20'26 28.85127 AU -2257 Feb 27 j 16:57 -2251 Nov 17 j 03:58 morning rise 5°≈18'18 direct 17°≈55'29 -2250 Feb 11 j 17:10 -2257 May 30 j 08:17 7°≈17'25 19°≈48'35 retrograde evening set -2257 Aug 18 j 20:27 5°≈52'05 -1°26'42 opposition -2250 Feb 27 j 13:12 min. Earth dist. -2257 Aug 17 j 20:47 5°≈53'44 28.87572 AU conjunction 20°≈24'03 -1°42'14 -2257 Nov 04 j 09:54 -2250 Feb 27 j 13:12 direct 4°≈28'57 minimum elong 20°≈24'03 1°42'16 -2256 Jan 29 j 14:59 -2250 Feb 28 j 14:22 evening set 6°≈21'46 max. Earth dist. 20°≈26'26 30.84986 AU -2250 Mar 15 j 12:54 morning rise 20°≈59'52 -2256 Feb 14 j 08:26 6°≈57'05 -1°22'53 -2250 Jun 15 j 07:08 conjunction retrograde 22°≈59'00 minimum elong -2256 Feb 14 j 08:26 6°≈57'05 1°22'56 min. Earth dist. -2250 Sep 02 j 08:24 21°≈35'15 28.85089 AU max. Earth dist. -2256 Feb 15 j 08:39 6°≈59'22 30.87114 AU opposition -2250 Sep 03 j 07:56 21°≈33'36 -1°50'49 morning rise -2256 Mar 01 j 05:54 7°≈32'47 direct -2250 Nov 19 j 16:25 20°≈10'15 retrograde -2256 May 31 j 20:44 9°≈31'55 -2249 Feb 14 j 06:09 22°≈03'26 evening set -2256 Aug 19 j 09:42 8°≈08'07 28.86861 AU min. Earth dist. -2256 Aug 20 j 08:34 8°≈06'31 -1°30'35 -2249 Mar 02 j 02:31 22°≈38'56 -1°44'56 opposition conjunction -2256 Nov 05 j 19:08 6°≈43'19 -2249 Mar 02 j 02:31 22°≈38'56 1°44'58 direct minimum elong -2255 Jan 31 j 03:03 8°≈36'10 -2249 Mar 03 j 03:12 22°≈41'16 30.84939 AU evening set max. Earth dist. morning rise -2249 Mar 18 i 02:37 23°≈14'47 conjunction -2255 Feb 15 j 21:05 9°≈11'31 -1°26'27 retrograde -2249 Jun 17 i 19:49 25°≈13'55 minimum elong -2255 Feb 15 i 21:04 9°≈11'31 1°26'29 opposition -2249 Sep 05 i 19:52 23°≈48'32 -1°53'37 max. Earth dist. -2255 Feb 16 j 22:30 9°≈13'54 30.86443 AU min. Earth dist. -2249 Sep 04 i 21:52 23°≈50'05 28.85040 AU -2255 Mar 03 i 18:46 9°≈47'13 direct -2249 Nov 22 i 03:14 22°≈25'11 morning rise -2255 Jun 03 j 09:07 11°≈46'21 -2248 Feb 16 j 19:07 24°≈18'27 retrograde evening set -2255 Aug 22 j 20:32 10°≈20'55 -1°34'20 opposition -2255 Aug 21 j 20:55 10°≈22'34 28.86248 AU -2248 Mar 03 j 15:59 min. Earth dist. conjunction 24°≈53'58 -1°47'30 direct -2255 Nov 08 j 06:36 8°≈57'39 minimum elong -2248 Mar 03 j 15:59 24°≈53'58 1°47'32 evening set -2254 Feb 02 j 15:17 10°≈50'32 max. Earth dist. -2248 Mar 04 j 16:37 24°≈56'17 30.84862 AU -2248 Mar 19 j 16:19 25°≈29'49 morning rise conjunction -2254 Feb 18 j 09:35 11°≈25'54 -1°29'53 -2248 Jun 19 j 09:24 27°≈28'57 retrograde -2254 Feb 18 j 09:34 -2248 Sep 06 j 09:12 26°≈05'10 28.84925 AU minimum elong 11°≈25'54 1°29'56 min. Earth dist. -2254 Feb 19 j 10:07 -2248 Sep 07 j 07:36 26°≈03'36 -1°56'16 max. Earth dist. 11°≈28′12 30.85891 AU opposition -2248 Nov 23 j 15:38 morning rise -2254 Mar 06 j 07:51 12°≈01'38 direct 24°≈40′13 -2247 Feb 18 j 08:22 retrograde -2254 Jun 05 j 22:53 14°≈00'45 evening set 26°≈33'33 min. Earth dist. -2254 Aug 24 j 09:12 12°≈36'56 28.85775 AU opposition -2254 Aug 25 j 08:35 12°≈35'17 -1°37'56 conjunction -2247 Mar 06 j 05:30 27°≈09'05 -1°49'53 direct -2254 Nov 10 j 17:05 11°≈11'59 minimum elong -2247 Mar 06 j 05:30 27°**≈**09'05 1°49'54 evening set -2253 Feb 05 j 03:36 13°≈04'55 max. Earth dist. -2247 Mar 07 j 04:36 27°≈11'16 30.84696 AU -2247 Mar 22 j 06:18 27°≈44'58 morning rise -2253 Feb 20 j 22:27 13°≈40'18 -1°33'11 -2247 Jun 21 j 22:49 29°≈44'04 conjunction retrograde

Alemnonication Card Stropp 1999 2007	Planetary Pheno	omena of Neptune	from -2400	through -1898	B (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 13
nin Indiadid -2217 Nov 2019 (2247 Nov 2019) 269-85712 (2247 Nov 2019) 269-85712 (2247 Nov 2019) 269-85812 (2247 Nov 2019) 269-85812 (2247 Nov 2019) 269-85812 (2248 Nov 2019) 269-85814 (2249 Nov 2019) 278-85814 (2249 Nov 2019) 278-85812	•	-		•				
discert 2247 No. 26 jul. 20 20% 985 17 ome certain set 2246 Nat 20 jul. 20 878-84874 certain set 2240 Jul 07 jul. 21 137 Nat 15	opposition	-2247 Sep 09 j 19:30	28° ≈ 18'43	-1°58'44	conjunction	-2240 Mar 22 j 05:30	12° ¥ 53'57	-2°01'45
Section Page Page	min. Earth dist.	-2247 Sep 08 j 22:33	28° ≈ 20'12	28.84722 AU	minimum elong	-2240 Mar 22 j 05:30	12° ¥ 53'57	2°01'46
1998 1998	direct	-2247 Nov 26 j 01:29	26° ≈ 55'17		max. Earth dist.	-2240 Mar 23 j 01:42	12°) 55′51	30.83008 AU
ownimination 2246 KW 86 [913] 299-2874 IN 275006 mm. Earth Mat. 2240 Say 2 [9183] 187-1872 OF 299-2874 287-2874 OF 2018 OF 299-299-299-299-299-299-299-299-299-299	evening set	-2246 Feb 20 j 21:28	28° ≈ 48'40		morning rise	-2240 Apr 07 j 08:33	13° ¥ 29'55	
minimar leong max. Earth Mat. 2246 Marg 03 j.03.13 29%2050 0.08442 M. morning rise 2246 Marg 03 j.01.51 29%2050 0.08442 M. morning rise 2246 Marg 04 j.01.51 29%2050 0.08442 M. morning rise 2246 Marg 04 j.01.51 29%201 29%20 2248 Marg 04 j.01.51 29%205 0.0942 Marg 04 j.01.51 29%205 0.094					retrograde		15°) €28'34	
max. Farbidist 2246 May 26 j.18.31 0°M recorgande 2246 May 26 j.18.31 0°M recorgande 2246 May 26 j.18.31 0°M recorgande 2246 May 26 j.18.31 0°M min. Earth dist. 2246 Sp. 11 j.10.15 0°M53718 28.441 May 21 j.0.2 18.958 2.0.2 dicect 2246 Sp. 12 j.10.15 0°M53718 28.441 May 21 j.0.2 2229 Mar 24 j.19.27 18°96785 20°243 dicect 22246 Sp. 22 j.0.13 0°M5072 max. Earth dist. 2229 Mar 24 j.19.27 18°96785 20°243 evening set 2224 Sp. 22 j.0.03 0°M min Earth dist. 2229 Mar 24 j.19.41 18°46782 28'1100 evening set 2224 Sw. 22 j.10.03 18°44783 18°4921 18°490 certing set 2229 Sp. 22 j.0.02 18°445871 28'8142 AU evening set 2224 Sw. 21 j.10.03 18°44723 18°44921 18°4492 2229 Sp. 22 j.0.02 18°445872 28'8142 AU evening set 2224 Sw. 21 j.10.03 18°44123 38'8484 2222 Sp. 22 j.10.03 18°445735 28'8324 AU	-	-	29° ≈ 24'14	-1°52'06				
	· ·	•						-2°10'44
1.00 1.00		-		30.84442 AU		-		
Internation C.246 Norm 1/19 1948 1978 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1979 1948 1	morning rise	•			evening set	-2239 Mar 08 j 18:53	14° ∺ 33'10	
inn. Earth dist 24.04 Sep 1 j 1 j 1015 Θ/HS1818 8.84H 7 AU minimum ene organization 2.92 Mar 2 j 1 j 2015 19/10873 2010 Au opposition -2.246 Sep 1 j 2 j 1025 30%se moming rise -2.239 Apr 0 j 1 j 224 18/14452 direct -2.246 Nova 2 j 1053 9780 erricognade -2.239 Apr 0 j 12244 18/14472 evening set -2.245 Mar 1 j 10852 179034 erricognade -2.239 Rep 2 j 1 441 16/H1829 2/H140 conjunction -2.245 Mar 1 j 10852 1794371 179410 erricognade -2.239 Rep 1 j 1041 16/H1472 18/H1473 108/H1873		•						
opposition 2.26 Act or 2.10 (212) 60% (212) at 50% (212) max. Earth dat. 2.224 Mar 2.5] 1.541 1.5% 1.0% 1.0% 1.2% 1.2% 1.2% 6.0% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2	•	•				,		
1998 1998					- C	3		
dried 2.246 Nov 28 ji 3.40 29%=10.70 compact 2.229 Nul 10 j0.747 17H.475 compact 2.2245 Feb 23 j1.053 7H.0736 minimum closs 2.2245 Feb 23 j1.053 7H.0736 minimum closs 2.2245 Mar 11 j0.852 7H.3791 reminimum closs 2.2245 Mar 12 j1.0632 reminimum closs 2.2245 Mar 12 j1.0632 reminimum closs 2.2245 Mar 12 j1.0632 reminimum closs 2.2245 Mar 27 j1.0624 reminimum closs reminimu	opposition			-2°01'01		,		30.83148 AU
Part		•	•		_	1 3		
evening set	direct	•			-	•		2011110
conjunction -2245 Mar I I j 08.52 1°83921 - 1°5409 evening set -2238 Mar I J j 08.33 16°H-8911 max Earth dist. -2245 Mar 1 j 108.32 1°943921 - 1°5409 evening set -2238 Mar I J j 08.33 16°H-8911 max Earth dist. -2245 Mar 2 j 10633 1°94131 - 308108 AU evonjunction -2238 Mar 2 J j 0623 17°H-2375 - 2°0329 poposition -2245 Sep 1 j 2247 - 2°15017 - 2°150		-			**			
	evening set	-2245 Feb 23 j 10:53	1°大03'46					28.83412 AU
minimam-long		224534 11:00.52	101/20121	1054100		,		
max. Earth dist.		·			evening set	-2238 Mar 11 J 08:33	16°π48'11	
moming rise -2245 Mar 27 100.4 2"H15" 5 minimum elong -2238 Mar 27 09.23 1"Pk2355 2"03"31 No poposition -2245 Sep 14] 18.45 2"H458'2 -2"03"07 moming rise -2238 Apr 12 13.07 1"Pk5955 1"Pk	· ·	•				2220 Mar. 27 : 00-22	170W22155	2902120
Retrograde 2245 Jun 26 23:53 4*H.4*14 max. Earth dist. 2238 Mar 28 04:21 17*H2541 308339 AU opposition 2245 Sep 14 18:45 2*H.4*52 2*03076 morning rise 22238 Jun 12 21:145 17*H5595 17*H55		·		30.84106 AU	-			
opposition in. Earth dist. -2245 Sep 1 4 j 18.45 2°H48°S2 2°0907 moming rise -2238 Jul 1 2 j 11.50 1°PH59°S direct -2244 Feb 20 j 00:01 1°H25°18 min. Earth dist. -2238 Sep 29 j 00:05 18°H34°2 28.83703 AU evening set -2244 Feb 26 j 00:06 3°H18′4 opposition -2238 Sep 29 j 00:05 18°H34°2 29.83703 AU eonjunction -2244 Mar 12 j 22:38 3°H56′23 1°560′4 verning set -2237 Mar 13 j 22:15 1°PH30°10	•	,			2	3		
min. Earth dist. 2.245 Sep 13 j 2.247 2**S017 2.84068 AU retrograde 2.2238 Sep 29 j 09:08 18**34723 2.83703 AU coming covering set -2244 Feb 2 60 00:00 3**E1847 opnosition -2238 Sep 29 j 09:08 18**A3712 2**1272 conjunction -2244 Mar 12 j 22:38 3**S423 1**5602 evening set -2237 Mar 13 j 22:15 1**P**(002)** max. Earth dist. -2244 Mar 13 j 22:53 3**S4523 1**5602 conjunction -2237 Mar 29 j 23:38 19**H3005 2**0405 retorgade -2244 Mar 13 j 22:54 5**S629 30.83742 AU conjunction -2237 Mar 29 j 23:38 19**H3005 2**0405 retorgade -2244 Jan 28 j 11-42 6**M2913 max. Earth dist. -2243 Mar 15 j 10:24 5**M313 2.883711 AU moming rise -2237 Mar 29 j 23:38 19**H3005 2**0415 opposition -2244 Sep 15 j 10:49 5**H3035 2-80511 max. Earth dist. -2244 Sep 15 j 10:49 5**H3035 2-90**101 evening set -2237 Aur 15 j 30:22 29**H3055 2-90**101 2-2237 Cort 10 j 20:14 2**M3232<	•	-		2902107		3		30.83393 AU
erening set 2.245 Fbe 0 1, joul.4 19H2518 min Earth dist. -2238 Sep 29 j 0.00 18PK3432 2.83703 AU evening set -2244 Feb 26 j 0.006 3°H 1847 copposition -2238 Sep 30 j 0.105 18PK3432 2*1224 conjunction -2244 Mar 12 j 22:38 3°H 5629 3°H 5602 evening set -2237 Mar 13 j 22:15 19PK0319 minimum clong -2244 Mar 1 j 20:25 3°H 5629 30 83742 AU conjunction -2237 Mar 29 j 23:38 19°H 3070 2°0405 morning rise -2244 Mar 29 j 0.002 4°H 3018 minimum clong -2237 Mar 29 j 23:38 19°H 3070 2°0405 mini Earth dist -2244 Sep 15 j 10-09 5°H 0313 28 83711 AU comming rise -2237 Mar 19 j 60:20 2°P 4493 2°24 Sep 15 j 10-09 2°F 40:35 2°0501 minimum clong -2237 Mar 19 j 60:20 2°P 4493 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1255 2°1455 <td< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></td<>					-			
Pereining set -2244 Feb 26 j 00.06 3°K18'47 direct -2238 Nep 30 j 01.56 S*K 33'12 2°12'24 Conjunction -2244 Mar 12 j 22:38 3°K54'23 3°56'04 retrograde -2244 Mar 13 j 20:66 3°K56'29 38.3742 AU conjunction -2237 Mar 29 j 23:38 19°K3'905 2°04'05 retrograde -2244 Mar 29 j 00:20 4°K30'18 retrograde -2244 Nep 28 j 11:42 6°K0'29'13 retrograde -2243 Nep 16 j 10:61 5°K0'350 -20'50'11 retrograde -2243 Nep 16 j 10:61 5°K0'350 -20'50'11 retrograde -2237 Aur 15 j 10:32 20°K1'85'2 retrograde -2243 Nep 16 j 10:61 5°K0'350 -20'50'11 retrograde -2237 Oct 10 j 10:32 20°K1'85'2 -20'13'31 5°K3'34 retrograde -2243 Nep 16 j 10:61 5°K0'350 retrograde -2243 Nep 15 j 10:49 6°K0'920 1°57'44 retrograde -2237 Oct 10 j 10:50 20°K1'85'2 20°K1'85'2 retrograde -2243 Mar 15 j 12:08 6°K4'85'16 retrograde -2243 Mar 15 j 12:08 6°K4'85'16 retrograde -2243 Nep 13 j 14:18 retrograde -2236 Nep 13 j 14:18 retrograde -2240 Mar 18 j 01:56 s°K24'14 retrograde -2236 Nep 13 j 14:38 retrograde -2242 Nep 13 j 14:39 retrograde -2242 Nep 13 j 1				26.64006 AU	=			20 02702 ATT
Conjunction C2244 Mar 12 j 22:38 3°H54'23 1°56'02 vening set C237 Mar 13 j 22:15 3°H371's Vening minimum clong C2244 Mar 12 j 22:38 3°H56'02 3°		·						
Conjunction C2244 Mar 12 22:38 3°K5423 1°S602 Conjunction C2247 Mar 13 22:38 3°K5423 1°S604 Conjunction C2237 Mar 29 23:38 19°K3905 2°0405 Conjunction C2244 Mar 29 20:20 4°K3018 Conjunction C2237 Mar 29 23:38 19°K3905 2°0405 Conjunction C2244 Mar 29 20:20 4°K3018 Conjunction C2237 Mar 29 23:38 19°K3905 2°0405 Conjunction C2244 Mar 29 20:20 5°K0513 28.83711 AU Conjunction C2237 Mar 29 23:38 19°K3905 2°0405 Conjunction C2244 Sep 15 10:49 5°K0513 28.83711 AU Conjunction C2244 Sep 15 10:49 5°K0513 28.83711 AU Conjunction C2243 Mar 29 21:20 3°K4011 Conjunction C2243 Mar 15 12:07 6°K0920 1°S744 Conjunction C2243 Mar 15 12:07 6°K0920 1°S744 Conjunction C2243 Mar 15 12:07 6°K0920 1°S744 Conjunction C2243 Mar 15 12:07 6°K1118 30.83413 AU Conjunction C2243 Mar 15 12:07 6°K1118 30.83413 AU Conjunction C2243 Mar 15 12:08 6°K0920 1°S744 Conjunction C2243 Mar 15 12:08 6°K1118 30.83413 AU Conjunction C2243 Mar 15 12:08 6°K1118 30.83413 AU Conjunction C2243 Mar 15 12:08 6°K1118 30.83413 AU Conjunction C2243 Mar 15 12:08 6°K118 30.83413 AU Conjunction C2243 Mar 15 12:08 5°K4550 Conjunction C2245 Mar 15 12:08 C0*K4550 C0*K4550	evening set	-2244 Feb 26 J 00.06	3 Д184/					-2 12 24
minimum elong -2244 Mar 12 j 22:38 3*\\$5e23 195604 max. Earth dist. -2244 Mar 29 j 02:30 3*\\$5e29 3.83742 AU conjunction -2237 Mar 29 j 23:38 19°\\$3905 2°0405 ertograde -2244 Mar 13 j 20:20 4*\\$3018 max. Earth dist. -2237 Mar 29 j 23:38 19°\\$4:053 30.83708 AU min. Earth dist. -2244 Sep 16 j 06:17 5°\\$05'50 290501 retrograde -2237 Not 15 j 03:30 29°\\$1:332 direct -2243 Feb 27 j 13:71 5°\\$05'50 290501 retrograde -2237 Oct 0; 12:56 20°\\$1:332 20°\\$1:332 evening set -2243 Feb 27 j 13:71 5°\\$03'50 290501 retrograde -2237 Oct 0; 12:56 20°\\$4:33 2°1'55'4 minimum elong -2243 Mar 15 j 12:08 6°\\$09'20 1°5'744 evening set -2235 Mar 15 j 12:12 21°\\$1'835 20°\\$4:09'2 1°5'744 max. Earth dist. -2243 Mar 16 j 09:07 6°\\$11'18 3.083413 AU conjunction -2235 Mar 3 j j 13:47 21°\\$4'522 2°04'28 morning rise -2243 Mar 16 j 10:09 6°\\$11'18	conjunction	2244 Mar 12 i 22:38	3°¥51/23	1°56'02				
max. Earth dist. -2244 Mar 13 j 20:56 3°%5629 30.83742 AU conjunction -2237 Mar 29 j 23:38 19°%3905 2°0405 certorgrade -2244 Mar 29 j 10:20 4°%3018 minimum elong -22237 Mar 29 j 23:38 19°%4905 2°0405 min. Earth dist. -2244 Sep 16 j 6167 5°%05°13 28.83711 AU morning rise -22237 lul 15 j 09:32 20°%1503 20°%3708 AU direct -2243 Feb 27 j 13:17 5°%05°13 28.83711 AU morning rise -2237 Oct 01 j 20:15 20°%4823 -281255 evening set -2243 Feb 27 j 13:17 5°%33°3 "Morni -2237 Dec 18 j 22:32 19°%43°3 28.84021 AU conjunction -2243 Mar 15 j 12:07 6°%09°20 1°5744 evening set -2243 Mar 15 j 12:07 6°%09°20 1°5744 evening set -2235 Mar 3 j j 13:47 21°%4523 21°%453 21°%453 21°%453 21°%453 21°%453 21°%453 21°%453 21°%453 21°%453 21°%453 21°%543 223°M34 21°907 21°%543 21°%543 21°25 21°%543 21°%543 21°		•			evening set	-2237 Wiai 13 j 22.13	19 10319	
morning rise 2.244 Mar 29 j 00.20	· ·	•			conjunction	2227 Mar 20 i 22:38	10°¥ 30'05	2°04'05
retrograde		•		30.83742 AU	•			
min. Earth dist.	Č	·			- C	3		
opposition direct -2244 Sep 16 j 06:17 5°M3'S0 -2'05'01 retrograde opposition or 2237 Oct 01 j 12:66 20°M4823 -2'12'55 22% H332 2°12'55 cevening set -2243 Feb 27 j 13:17 5°M3'33' 3 min. Earth dist. direct -2237 Oct 01 j 12:65 20°M4823 -2'12'55 20°M4823 -2'12'55 conjunction -2243 Mar 15 j 12:08 6°M9'20 1°57'44 evening set -2236 Mar 15 j 12:12 21°M1'83'5 max. Earth dist. -2243 Mar 16 j 10:07 6°M9'20 1°57'44 conjunction -2236 Mar 15 j 12:12 21°M1'83'5 max. Earth dist. -2243 Mar 16 j 10:07 6°M1'118 30.83413 AU conjunction -2236 Mar 31 j 13:47 21°M5'422 2°0'42'8 morning rise -2243 Mar 15 j 12:18 8°M4'118 30.83413 AU conjunction -2236 Mar 31 j 13:47 21°M5'422 2°0'42'8 morning rise -2243 Sep 18 j 17:43 7°M1'8'43 2°0'64'5 morning rise -2236 Mar 31 j 13:48 21°M5'422 2°0'42'8 direct -2243 Sep 17 j 22:16 7°M2'0'5 28.83422 AU morning rise -2236 Mar 31 j 13:48 21°M5'422 2°0'42'8 direct -2240 Mar 18 j 21:31 8°M2'414 1°5'9'15 morning rise -2236 Oct 03 j 06'3'3'3'3'3'3'3'3'3'3'3'3'3'3'3'3	•			28 83711 AII		,		30.03700710
direct -2244 Dec 02 j 12:20 3°H4011 opposition min. Earth dist. -2237 Oct 02 j 12:55 20°H4823 2°1555 evening set -2237 Dec 18 j 22:32 10°H4944 28.84021 AU direct -2237 Oct 01 j 20:15 20°H4934 28.84021 AU 20°H4835 <					•			
evening set -2243 Feb 27 j 13:17 5°\\$3343 min. Earth dist. direct -2237 Oct 01 j 20:15 20°\\$4934 28.84021 AU direct -2237 Oct 01 j 20:15 20°\\$4934 28.84021 AU direct -2237 Oct 01 j 20:15 20°\\$4934 28.84021 AU direct -2237 Oct 01 j 20:15 20°\\$4934 21°\\$423 Iu 1° 2243 Iu 1° 20°\\$4871 20°\\$492 2223 Iu 1° 22236 Iu 1° 20°\\$492 20°	• •			2 03 01	_			-2°12'55
Conjunction -2243 Mar 15 j 12:08 6°\(\frac{\partial}{\partial}\) 6		•			**	,		
conjunction -2243 Mar 15 j 12:08 6° θ0920 -1°57'44 evening set -2236 Mar 15 j 12:12 21° H1835	evening sec	22.5100 27 15.17	0 7(33 .3			J		20.0.021110
minimum elong -2243 Mar 15 j 12:07 6° %09'20 l °57'44 conjunction -2236 Mar 3 l j 13:47 21° %54'22 l °20'428 morning rise -2243 Mar 3 l j 14:18 6° %45'16 minimum elong -2236 Mar 3 l j 13:48 21° %54'22 l °20'429 retrograde -2243 Mar 3 l j 14:18 6° %45'16 minimum elong -2236 Apr 16 j 18:05 21° %5'55 30.84026 AU opposition -2243 Sep 18 j 17:43 7° %18'43 -2°06'45 morning rise -2236 Apr 16 j 18:05 22° %30'24 2° 60'45 min. Earth dist. -2243 Sep 17 j 22:16 7° £20'05 28.83422 AU retrograde -2236 Oct 03 j 08:38 23° %10'46 28.84328 AU evening set -2242 Mar 02 j 02:37 7° £48'35 opposition -2236 Oct 03 j 08:38 23° %0'40 21° ¾4'4 conjunction -2242 Mar 18 j 01:56 8° £24'14 1°59'15 evening set -2235 Mar 18 j 01:58 23° %3'35'5 12° %4'41 max. Earth dist. -2242 Mar 18 j 23:13 8° £26'11 1°59'16 retrograde -2235 Apr 03 j 04:07 24° %0'94 2°04'40 max. Earth dist. -22424 Mar 18	conjunction	-2243 Mar 15 i 12:08	6° ₩ 09'20	-1°57'44		-		
max. Earth dist. -2243 Mar 16 j 09:07 6° H1'18 30.83413 AU conjunction -2236 Mar 3 j 13:47 21° K54'22 -2°04'28 morning rise -2243 Mar 3 j 14:18 6° H4'5'16 minimum elong -2236 Mar 3 j j 13:47 21° K54'22 2°04'29 retrograde -2243 Sep 18 j 17:48 8° H4'477 max. Earth dist. -2236 Apr 16 j 18:05 22° H3'024 min. Earth dist. -2243 Sep 17 j 22:16 7° H2'05 28.83422 AU retrograde -2236 Oct 03 j 08:33 23° H0'340 22° H3'26 evening set -2242 Mar 02 j 02:37 7° H8'8'35 opposition -2236 Oct 04 j 00:09 23° H0'340 2° 13'14 conjunction -2242 Mar 18 j 01:56 8° H2'14 1° 59'15 evening set -2235 Mar 18 j 01:58 23° H3'40 2° 13'14 max. Earth dist. -2242 Mar 18 j 01:56 8° H2'14 1° 59'15 evening set -2235 Apr 03 j 04:07 2° H0'9'43 -2° 04'14 morning rise -2242 Mar 18 j 01:56 8° H2'14 1° 59'15 evening set -2235 Apr 03 j 04:07 2° H0'9'43 2° 04'14 morning rise							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
morning rise -2243 Mar 31 j 14:18 6°\tasil 45'16 minimum elong -2236 Mar 31 j 13:48 21°\tasil 55'29 30.84026 AU retrograde -2243 Jul 01 j 01:48 8°\tasil 44'07 max. Earth dist. -2236 Apr 01 j 07:05 21°\tasil 55'59 30.84026 AU opposition -2243 Sep 18 j 17:43 7°\tasil 84'3 - 2°06'45 morning rise -2236 Jul 16 j 22:16 24°\tasil 50'25'6 24°\tasil 50'25'6 42°\tasil 50'16'6 2236 Jul 16 j 22:16 24°\tasil 50'25'6 42°\tasil 50'16'6 42°\tasil 50'15'6 8°\tasil 50'16'6 42°\tasil 50'15'6 42°\tasil 50'15'	-	-			conjunction	-2236 Mar 31 i 13:47	21°) 54'22	-2°04'28
retrograde	morning rise	-			minimum elong	-	21°) 54'22	2°04'29
opposition -2243 Sep 18 j 17:43 7° * 18'43 -2'0645 morning rise -2236 Apr 16 j 18:05 22° *30'24	-	·	8°)(44'07		_			
min. Earth dist.	•	-2243 Sep 18 j 17:43	7°) 18′43	-2°06'45	morning rise			
direct -2243 Dec 04 j 23:07 5°\\(\)55'00 min. Earth dist. -2236 Oct 03 j 08:38 23°\(\)40'46 28.84328 AU evening set -2242 Mar 02 j 02:37 7°\(\)48'35 opposition direct -2236 Oct 04 j 00:09 23°\(\)63'40 -2°13'14 conjunction -2242 Mar 18 j 01:56 8°\(\)42'14 1°59'15 evening set -2235 Mar 18 j 01:58 23°\(\)43'35'5 max. Earth dist. -2242 Mar 18 j 01:56 8°\(\)42'14 1°59'16 evening set -2235 Apr 03 j 04:07 24°\(\)40'943 -2°04'41 morning rise -2242 Mar 18 j 01:56 8°\(\)42'14 1°59'16 minimum elong -2235 Apr 03 j 04:07 24°\(\)40'943 -2°04'41 morning rise -2242 Mar 18 j 03:14:25 10°\(\)45'85'7 max. Earth dist. -2235 Apr 03 j 04:07 24°\(\)40'943 2°04'40 retrograde -2242 Jul 03 j 14:25 10°\(\)45'85'7 morning rise -2235 Apr 03 j 04:07 24°\(\)40'44'4 2°04'40 direct -2242 Sep 2 j 10:035 9°\(\)43'333 2°08'16 retrograde -2235 Apr 03 j 04:07 2°\(\)44'40'44'4'4'4'4'4'4'4'4'4'4'4'4'4'4'4'			7°) 20′05	28.83422 AU	-		24°) 28'46	
conjunction -2242 Mar 18 j 01:56 8° \(\) \(24'\) 4 -1°59'15 evening set -2235 Mar 18 j 01:58 23° \(\) \(33'\) 3'55	direct	-2243 Dec 04 j 23:07	5°) 55′00		min. Earth dist.	-2236 Oct 03 j 08:38	23°) €04'46	28.84328 AU
conjunction -2242 Mar 18 j 01:56 8° ±24'14 -1°59'15 evening set -2235 Mar 18 j 01:58 23° ±3'55 Levening set -2235 Mar 18 j 01:58 23° ±3'55 Levening set -2235 Mar 18 j 01:58 23° ±3'55 Levening set -2235 Mar 18 j 01:58 23° ±3'55 Levening set -2235 Apr 03 j 04:07 24° ±09'43 -2°04'41 morning rise -2242 Apr 03 j 04:20 9° ±00'10 minimum elong -2235 Apr 03 j 04:07 24° ±09'43 2°04'40 retrograde -2242 Jul 03 j 14:25 10° ±58'57 max. Earth dist. -2235 Apr 03 j 04:07 24° ±09'43 2°04'40 min. Earth dist. -2242 Sep 20 j 10:35 9° ±3'45'1 28.83222 AU morning rise -2235 Apr 19 j 08:31 24° ±4'54'6 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 24° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3 25° ±4'40'3	evening set	-2242 Mar 02 j 02:37	7°) 48'35		opposition	-2236 Oct 04 j 00:09	23°) €03'40	-2°13'14
minimum elong max. Earth dist.					direct	-2236 Dec 20 j 08:42	21°) 39′46	
max. Earth dist.	conjunction	-2242 Mar 18 j 01:56			evening set	-2235 Mar 18 j 01:58	23° ∺ 33'55	
morning rise	minimum elong	-2242 Mar 18 j 01:56	8°) 24'14	1°59'16				
retrograde	max. Earth dist.	-2242 Mar 18 j 23:11		30.83155 AU	conjunction			
min. Earth dist.	morning rise	-2242 Apr 03 j 04:20	9° ₩ 00'10		_		24°) €09'43	2°04'40
opposition -2242 Sep 21 j 05:01 9° ★33'33 -2°08'16 retrograde -2235 Jul 19 j 09:58 26° ★44'03 direct -2242 Dec 07 j 11:40 8° ★09'46 opposition -2235 Oct 06 j 11:19 25° ★19'00 -2°13'21 evening set -2241 Mar 04 j 16:04 10° ★03'25 min. Earth dist2235 Oct 05 j 20:47 25° ★20'02 28.84547 AU direct -2235 Dec 22 j 20:12 23° ★55'03 conjunction -2241 Mar 20 j 15:47 10° ★39'05 -2°00'35 evening set -2234 Mar 20 j 16:05 25° ★49'16 minimum elong -2241 Mar 20 j 15:47 10° ★39'05 2°00'36 max. Earth dist2241 Mar 21 j 12:18 10° ★41'01 30.83022 AU conjunction -2234 Apr 05 j 18:31 26° ★25'05 -2°04'42 morning rise -2241 Jul 06 j 05:17 13° ★13'45 max. Earth dist2234 Apr 05 j 18:31 26° ★25'05 2°04'42 retrograde -2241 Sep 23 j 16:15 11° ★48'21 -2°09'36 morning rise -2234 Apr 06 j 09:50 26° ★26'31 30.84477 AU opposition -2241 Sep 22 j 21:15 11° ★49'42 28.83153 AU retrograde -2234 Jul 21 j 23:22 28° ★59'18 direct -2241 Dec 10 j 00:36 10° ★24'32 opposition -2234 Oct 08 j 22:19 27° ★34'16 -2°13'16	retrograde	-2242 Jul 03 j 14:25	10° ¥ 58'57		max. Earth dist.	-2235 Apr 03 j 21:35	24° ∺ 11'22	30.84293 AU
direct					-			
evening set -2241 Mar 04 j 16:04 10°\text{30'25} \ min. Earth dist. direct -2235 Oct 05 j 20:47 25°\text{20'02} 28.84547 AU direct -2235 Dec 22 j 20:12 23°\text{55'03} conjunction -2241 Mar 20 j 15:47 10°\text{39'05} 200'35 evening set -2241 Mar 20 j 15:47 10°\text{39'05} 200'36 max. Earth dist. -2241 Mar 21 j 12:18 10°\text{41'01} 30.83022 AU conjunction -2234 Apr 05 j 18:31 26°\text{25'05} 2°04'42 retrograde -2241 Jul 06 j 05:17 13°\text{13'45} max. Earth dist. -2241 Sep 23 j 16:15 11°\text{48'21} -2°09'36 min. Earth dist. -2234 Apr 05 j 18:31 26°\text{25'05} 26°\text{26'31} 30.84477 AU opposition morning rise -2234 Apr 06 j 09:50 26°\text{26'31} 27°\text{01'08} morning rise -2234 Jul 21 j 23:22 28°\text{59'18} direct -2241 Dec 10 j 00:36 10°\text{24'32} 10°\text{24'32} opposition -2234 Oct 08 j 22:19 27°\text{34'16} -2°13'16				-2°08'16	-	-		
direct -2235 Dec 22 j 20:12 23°\\$55'03 conjunction -2241 Mar 20 j 15:47 10°\\$39'05 -2°00'35 evening set -2234 Mar 20 j 16:05 25°\\$49'16 minimum elong -2241 Mar 20 j 15:47 10°\\$39'05 2°00'36 max. Earth dist2241 Mar 21 j 12:18 10°\\$41'01 30.83022 AU conjunction -2234 Apr 05 j 18:31 26°\\$25'05 -2°04'42 morning rise -2241 Apr 05 j 18:32 11°\\$415'02 minimum elong -2234 Apr 05 j 18:31 26°\\$25'05 2°04'42 retrograde -2241 Jul 06 j 05:17 13°\\$13'45 max. Earth dist2234 Apr 06 j 09:50 26°\\$26'31 30.84477 AU opposition -2241 Sep 23 j 16:15 11°\\$48'21 -2°09'36 morning rise -2234 Apr 05 j 18:31 27°\\$01'08 min. Earth dist2241 Sep 22 j 21:15 11°\\$49'42 28.83153 AU retrograde -2234 Jul 21 j 23:22 28°\\$59'18 direct -2241 Dec 10 j 00:36 10°\\$24'32 opposition -2234 Oct 08 j 22:19 27°\\$34'16 -2°13'16		-				-		
conjunction -2241 Mar 20 j 15:47 10° ★39'05 -2°00'35 evening set -2234 Mar 20 j 16:05 25° ★49'16 minimum elong max. Earth dist2241 Mar 21 j 12:18 10° ★41'01 30.83022 AU conjunction -2234 Apr 05 j 18:31 26° ★25'05 -2°04'42 morning rise -2241 Apr 05 j 18:32 11° ★15'02 minimum elong -2234 Apr 05 j 18:31 26° ★25'05 2°04'42 retrograde -2241 Jul 06 j 05:17 13° ★13'45 max. Earth dist2241 Sep 23 j 16:15 11° ★48'21 -2°09'36 min. Earth dist2241 Sep 22 j 21:15 11° ★49'42 28.83153 AU retrograde -2234 Oct 08 j 22:19 27° ★34'16 -2°13'16	evening set	-2241 Mar 04 j 16:04	10°) 03′25		min. Earth dist.	-		28.84547 AU
minimum elong						-		
max. Earth dist.					evening set	-2234 Mar 20 j 16:05	25° ∺ 49'16	
morning rise	- C	-						
retrograde -2241 Jul 06 j 05:17 13° ★13'45 max. Earth dist2234 Apr 06 j 09:50 26° ★26'31 30.84477 AU opposition -2241 Sep 23 j 16:15 11° ★48'21 -2°09'36 morning rise -2234 Apr 21 j 23:21 27° ★01'08 min. Earth dist2241 Sep 22 j 21:15 11° ★49'42 28.83153 AU retrograde -2234 Jul 21 j 23:22 28° ★59'18 direct -2241 Dec 10 j 00:36 10° ★24'32 opposition -2234 Oct 08 j 22:19 27° ★34'16 -2°13'16		-		30.83022 AU	·			
opposition -2241 Sep 23 j 16:15 11° \(\frac{4}{4}\)8'21 -2°09'36 morning rise -2234 Apr 21 j 23:21 27° \(\frac{1}{1}\)0'108 min. Earth dist2241 Sep 22 j 21:15 11° \(\frac{1}{4}\)9'42 28.83153 AU retrograde -2234 Jul 21 j 23:22 28° \(\frac{1}{5}\)9'18 direct -2241 Dec 10 j 00:36 10° \(\frac{1}{2}\)24'32 opposition -2234 Oct 08 j 22:19 27° \(\frac{1}{3}\)4'16 -2°13'16	•				_			
min. Earth dist. -2241 Sep 22 j 21:15 11° \(\) \(49'42 \) 28.83153 AU retrograde retrograde -2234 Jul 21 j 23:22 28° \(\) \(\) \(59'18 \) direct -2241 Dec 10 j 00:36 10° \(\) \(\) \(24'32 \) opposition -2234 Oct 08 j 22:19 27° \(\) \(34'16 \) -2° 13'16	-	-						30.84477 AU
direct -2241 Dec 10 j 00:36 10°\(\dag{2}4'32 \) opposition -2234 Oct 08 j 22:19 27°\(\dag{3}4'16 \) -2°13'16					-			
				28.83153 AU	-	-		
evening set -2240 Mar 06 j 05:27 12° X 18'16 min. Earth dist2234 Oct 08 j 08:24 27° X 35'15 28.84688 AU					* *			
	evening set	-2240 Mar 06 j 05:27	12° 共 18'16		mın. Earth dist.	-2234 Oct 08 j 08:24	27° X 35'15	28.84688 AU

Planetary Pheno	omena of Neptune f	from -2400	through -1898	3 (UT), Astrodiens	st AG 18-Feb-2025	14:23,	page 14
Attention, astronom	nical year style is used: Th	e year -2234	in astronomical co	unting style is the year	2235 BCE in historical c	ounting style.	. •
direct	-2234 Dec 25 j 06:59	26° ₩ 10'15		minimum elong	-2227 Apr 21 j 22:37	12° Υ 08'32	1°59'34
evening set	-2233 Mar 23 j 06:08	28°) 04'31		max. Earth dist.	-2227 Apr 22 j 08:17	12° Υ 09'26	30.85814 AU
-	·			morning rise	-2227 May 08 j 05:04	12° Y 44'37	
conjunction	-2233 Apr 08 j 09:02	28°) 40'21	-2°04'32	retrograde	-2227 Aug 06 j 14:46	14° Y 41'46	
minimum elong	-2233 Apr 08 j 09:02	28°) (40'21	2°04'31	opposition	-2227 Oct 24 j 01:36	13° Y 16'53	-2°07'06
max. Earth dist.	-2233 Apr 09 j 00:02	28°) (41'45	30.84571 AU	min. Earth dist.	-2227 Oct 23 j 16:42		28.86252 AU
morning rise	-2233 Apr 24 j 14:00	29°) 16′24		direct	-2226 Jan 09 j 20:20	11° Y 52'24	
C	-2233 May 15 j 15:02	0° Y		evening set	-2226 Apr 08 j 07:38	13° Y 47'01	
retrograde	-2233 Jul 24 j 10:32	1° Y 14'26		Č	1 3		
C	-2233 Oct 05 j 03:51	30° R ₩		conjunction	-2226 Apr 24 j 13:04	14° Y 22'58	-1°58'07
opposition	-2233 Oct 11 j 09:23	29°) 49'25	-2°12'59	minimum elong	-2226 Apr 24 j 13:05	14° Y 22'58	1°58'07
min. Earth dist.	-2233 Oct 10 j 21:00		28.84747 AU	max. Earth dist.	-2226 Apr 24 j 23:11		30.86451 AU
direct	-2233 Dec 27 j 19:51	28°) 25'19		morning rise	-2226 May 10 j 19:32	14° Y 59'03	
	-2232 Mar 15 j 15:53	$0^{\circ}\Upsilon$		retrograde	-2226 Aug 09 j 02:05	16° Y 56′04	
evening set	-2232 Mar 24 j 20:02	0° Υ 19'37		opposition	-2226 Oct 26 j 12:03	15° Ƴ 31'18	-2°05'26
evening sec	2202 1141 2 1 1 20:02	0 1 17 57		min. Earth dist.	-2226 Oct 26 j 03:57		28.86937 AU
conjunction	-2232 Apr 09 j 23:16	0°Υ55'28	-2°04'10	direct	-2225 Jan 12 j 07:29	14° Υ 06'48	20.00937110
minimum elong	-2232 Apr 09 j 23:16	0°Υ55'28		evening set	-2225 Apr 10 j 21:47	16° Υ 01'30	
max. Earth dist.	-2232 Apr 10 j 12:51		30.84624 AU	evening set	2223 Apr 10 J 21.47	10 01 30	
morning rise	-2232 Apr 26 j 04:32	1° Υ 31'31	30.04024710	conjunction	-2225 Apr 27 j 03:23	16° Ƴ 37'28	-1°56'28
retrograde	-2232 Apr 20 j 04:32 -2232 Jul 26 j 00:07	3° Υ 29'24		minimum elong	-2225 Apr 27 j 03:24	16° Y 37'28	
opposition	-2232 Oct 12 j 20:14	2° Υ 04'23	2012/20	max. Earth dist.	-2225 Apr 27 j 03:24 -2225 Apr 27 j 11:39		30.87199 AU
min. Earth dist.	-2232 Oct 12 j 20:14 -2232 Oct 12 j 07:46		28.84791 AU	morning rise	-2225 Apr 27 j 11:39 -2225 May 13 j 10:10	10 γ 38 13	30.8/199 AU
direct	-2232 Oct 12 j 07.46 -2232 Dec 29 j 08:55	2 γ 03 10 0° Υ 40'11	20.04/91 AU	retrograde	-2225 May 13 j 10:10 -2225 Aug 11 j 14:50	19° Y $10'29$	
evening set	-2232 Dec 29 j 08:33 -2231 Mar 27 j 10:02	2° Υ 34'32		opposition	-2225 Aug 11 j 14.30 -2225 Oct 28 j 22:36	19 γ 10 29 17° Υ 45'49	2002124
evening set	-2231 Wiai 27 J 10.02	2 1 34 32		min. Earth dist.	-2225 Oct 28 j 22:30		28.87719 AU
:	2221 A 12:12:27	3° Y 10′24	2002127			$16^{\circ}\Upsilon 21'20$	20.0//19 AU
conjunction	-2231 Apr 12 j 13:37	3° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		direct	-2224 Jan 14 j 17:49	18° Y 21° 20 18° Y $16'$ 07	
minimum elong	-2231 Apr 12 j 13:37		30.84671 AU	evening set	-2224 Apr 12 j 11:46	18- 1 100/	
max. Earth dist.	-2231 Apr 13 j 02:31	3° Y 11'36 3° Y 46'27	30.840/1 AU		2224 4 20:17.45	1000052106	1054120
morning rise	-2231 Apr 28 j 19:07			conjunction	-2224 Apr 28 j 17:45	18°Υ52'06	
retrograde	-2231 Jul 28 j 11:53	5° Υ 44'11	2011140	minimum elong	-2224 Apr 28 j 17:46	18°Υ52'06	
opposition	-2231 Oct 15 j 07:03	4° Υ 19'09		max. Earth dist.	-2224 Apr 29 j 01:58		30.87994 AU
min. Earth dist.	-2231 Oct 14 j 20:21		28.84863 AU	morning rise	-2224 May 15 j 00:31	19° Y 28′12	
direct	-2231 Dec 31 j 20:25	2°Υ54'52		retrograde	-2224 Aug 13 j 01:27	21° Y 25'01	
evening set	-2230 Mar 29 j 23:56	4° Ƴ 49'15		opposition	-2224 Oct 30 j 09:14	20° Y 00′27	
		00		min. Earth dist.	-2224 Oct 30 j 03:06		28.88511 AU
conjunction	-2230 Apr 15 j 04:00	5° Y 25′08		direct	-2223 Jan 16 j 05:48	18° Ƴ 35'58	
minimum elong	-2230 Apr 15 j 04:00	5° Y 25′08		evening set	-2223 Apr 15 j 02:01	20° Ƴ 30'52	
max. Earth dist.	-2230 Apr 15 j 16:25		30.84785 AU			••	
morning rise	-2230 May 01 j 09:43	6° Y 01'11		conjunction	-2223 May 01 j 08:14	21° Υ 06'52	
retrograde	-2230 Jul 31 j 01:43	7° Y 58'45		minimum elong	-2223 May 01 j 08:15	21° Y 06'52	
opposition	-2230 Oct 17 j 17:42	6° Ƴ 33'44		max. Earth dist.	-2223 May 01 j 14:38		30.88784 AU
min. Earth dist.	-2230 Oct 17 j 06:43		28.85010 AU	morning rise	-2223 May 17 j 15:15	21° Y 42'57	
direct	-2229 Jan 03 j 10:05	5° Y ′09′23		retrograde	-2223 Aug 15 j 14:54	23° Y 39'39	
evening set	-2229 Apr 01 j 13:59	7° Ƴ 03'48		opposition	-2223 Nov 01 j 19:39	22° Y 15′11	
				min. Earth dist.	-2223 Nov 01 j 13:43		28.89267 AU
conjunction	-2229 Apr 17 j 18:14	7° Y 39'42		direct	-2222 Jan 18 j 18:02	20° Y 50'41	
minimum elong	-2229 Apr 17 j 18:14	7° Y 39'42		evening set	-2222 Apr 17 j 16:22	22° Y 45'40	
max. Earth dist.	-2229 Apr 18 j 05:20		30.84981 AU				
morning rise	-2229 May 04 j 00:14	8° Y 15'45		conjunction	-2222 May 03 j 22:53	23° Y 21'41	
retrograde	-2229 Aug 02 j 14:26	10° Ƴ 13'11		minimum elong	-2222 May 03 j 22:54	23° Y 21'41	
opposition	-2229 Oct 20 j 04:23	8° Ƴ 48'11		max. Earth dist.	-2222 May 04 j 04:14		30.89495 AU
min. Earth dist.	-2229 Oct 19 j 18:46	8° Ƴ 48'52	28.85276 AU	morning rise	-2222 May 20 j 05:58	23° Ƴ 57'47	
direct	-2228 Jan 05 j 21:18	7° Y 23'46		retrograde	-2222 Aug 18 j 02:26	25° Y 54′20	
evening set	-2228 Apr 03 j 03:47	9° Ƴ 18'14		opposition	-2222 Nov 04 j 06:20	24° Ƴ 29'57	-1°56'52
				min. Earth dist.	-2222 Nov 04 j 02:31	24° Y 30'13	28.89933 AU
conjunction	-2228 Apr 19 j 08:32	9° Y 54'09	-2°00'53	direct	-2221 Jan 21 j 05:20	23° Y 05'24	
minimum elong	-2228 Apr 19 j 08:33	9° Y 54'09		evening set	-2221 Apr 20 j 06:37	25° Y 00′27	
max. Earth dist.	-2228 Apr 19 j 19:52	9° Ƴ 55'12	30.85322 AU				
morning rise	-2228 May 05 j 14:36	10° Ƴ 30'13		conjunction	-2221 May 06 j 13:25	25° Y 36'29	-1°48'07
retrograde	-2228 Aug 04 j 02:08	12° Ƴ 27'29		minimum elong	-2221 May 06 j 13:26	25° Ƴ 36′29	1°48'05
opposition	-2228 Oct 21 j 14:56	11° Y 02'33	-2°08'35	max. Earth dist.	-2221 May 06 j 17:37		30.90125 AU
min. Earth dist.	-2228 Oct 21 j 05:11		28.85684 AU	morning rise	-2221 May 22 j 20:35	26° Ƴ 12'34	
direct	-2227 Jan 07 j 10:01	9° Ƴ 38'05		retrograde	-2221 Aug 20 j 15:57	28° Ƴ 08'58	
evening set	-2227 Apr 05 j 17:40	11° Y 32'37		opposition	-2221 Nov 06 j 16:45	26° Ƴ 44'38	-1°54'17
-				min. Earth dist.	-2221 Nov 06 j 13:04		28.90509 AU
conjunction	-2227 Apr 21 j 22:37	12° Y ′08'32	-1°59'35	direct	-2220 Jan 23 j 19:33	25° Y 20′03	
•	. J				<i>y</i>		

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 15

•	ical year style is used: Th		_	· //	2221 BCE in historical c	, 10	
evening set	-2220 Apr 21 j 20:54	•		conjunction	-2214 May 22 j 17:09	11° 8 15'55 -1°27'30	
Ü	1 3			minimum elong	-2214 May 22 j 17:10	11° 8 15'55 1°27'28	
conjunction	-2220 May 08 j 03:51	27° Y ′51'11	-1°45'37	max. Earth dist.	-2214 May 22 j 14:24	11° 8 15'40 30.94625	A U
minimum elong	-2220 May 08 j 03:52	27° Y ′51'11		morning rise	-2214 Jun 08 j 00:40	11° 8 51'58	
max. Earth dist.	-2220 May 08 j 06:22		30.90671 AU	retrograde	-2214 Sep 05 j 00:45	13° 8 47'07	
morning rise	-2220 May 24 j 11:10	28° Y '27'17		opposition	-2214 Nov 21 j 16:46	12° 8 23'10 -1°31'41	
morning rise	-2220 Jul 15 j 11:26	0°8		min. Earth dist.	-2214 Nov 21 j 18:24	12° 8 23'03 28.95196	AU
retrograde	-2220 Aug 22 j 04:14	0° 8 23'31		direct	-2213 Feb 08 i 06:33	10° 8 58'13	
101108111110	-2220 Sep 29 j 06:04	30°RY		evening set	-2213 May 08 j 22:57	12° 8 53'35	
opposition	-2220 Nov 08 j 03:14	28° Y ′59'13	-1°51'31			32 00000	
min. Earth dist.	-2220 Nov 08 j 01:22		28.91034 AU	conjunction	-2213 May 25 j 07:11	13° 8 29'40 -1°24'00	
direct	-2219 Jan 25 j 07:37	27° Y '34'34	20.9103.110	minimum elong	-2213 May 25 j 07:11	13° 8 29'40 1°23'58	
evening set	-2219 Apr 24 j 10:54	29° Y ′29'42		max. Earth dist.	-2213 May 25 j 04:05	13° 8 29'22 30.95656	AU
	-2219 May 08 j 04:26	0°8		morning rise	-2213 Jun 10 j 14:32	14° 8 05'42	
					-2213 Jul 07 j 14:07	15° 8	
conjunction	-2219 May 10 j 18:16	0° ප 05'45	-1°42'58	retrograde	-2213 Sep 07 j 10:42	16° 8 00'43	
minimum elong	-2219 May 10 j 18:17	0° 8 05'45		ronogrado	-2213 Nov 10 j 08:24	15°R 8	
max. Earth dist.	-2219 May 10 j 20:26	_	30.91189 AU	opposition	-2213 Nov 24 j 03:04	14° 8 36'52 -1°27'52	
morning rise	-2219 May 27 j 01:36	0° 8 41'50	50.91109110	min. Earth dist.	-2213 Nov 24 j 06:26	14° 8 36'37 28.96268	AU
retrograde	-2219 Aug 24 j 15:55	2° 8 37'53		direct	-2212 Feb 10 j 17:22	13° 8 11'55	110
opposition	-2219 Nov 10 j 13:34	1° 8 13'37	-1°48'36		-2212 May 07 j 02:41	15° 8	
min. Earth dist.	-2219 Nov 10 j 12:01		28.91530 AU	evening set	-2212 May 10 j 12:54	15° 8 07'22	
iiiii. Lartii dist.	-2218 Jan 01 j 22:55	30°RY	20.71330710	evening set	2212 May 10 j 12.54	15 007 22	
direct	-2218 Jan 27 j 21:06	29° Υ '48'55		conjunction	-2212 May 26 j 21:13	15° 8 43'26 -1°20'21	
direct	-2218 Feb 22 j 11:42	0°8		minimum elong	-2212 May 26 j 21:14	15° 8 43'26 1°20'20	
evening set	-2218 Apr 27 j 01:10	1° 8 44'04		max. Earth dist.	-2212 May 26 j 17:14	15° 8 43'04 30.96771	ΔΙΙ
evening set	-2210 Apr 2/ j 01.10	1 04404		morning rise	-2212 Jun 12 j 04:33	16° 8 19'27	AU
conjunction	-2218 May 13 j 08:35	2° 8 20'07	1940'10	retrograde	-2212 Sep 08 j 23:06	18° 8 14'21	
minimum elong	-2218 May 13 j 08:35	2° 8 20'08		opposition	-2212 Sep 08 j 23:00 -2212 Nov 25 j 13:10	16° 8 50'36 -1°23'55	
max. Earth dist.	-2218 May 13 j 08:41		30.91699 AU	min. Earth dist.	-2212 Nov 25 j 15:10	16° 8 50'22 28.97383	ATT
morning rise	-2218 May 13 j 08:41 -2218 May 29 j 16:06	2° 8 56'12	30.91099 AO	direct	-2212 Nov 23 j 10:34 -2211 Feb 12 j 07:01	15° 8 25'40	AU
retrograde	-2218 May 29 j 10:00 -2218 Aug 27 j 04:43	4° 8 52'03		evening set	-2211 Yeb 12 j 07:01 -2211 May 13 j 02:56	17° 8 21'11	
opposition	-2218 Nov 12 j 23:50	3° 8 27'50	10/15/31	evening set	-2211 Way 15 J 02.50	1/ 02111	
min. Earth dist.	-2218 Nov 12 j 23:36		28.92061 AU	conjunction	-2211 May 29 j 11:16	17° 8 57'16 -1°16'36	
direct	-2217 Jan 30 j 08:28	2° 8 03'03	28.92001 AU	minimum elong	-2211 May 29 j 11:16	17° 8 57'16 1°16'33	
evening set	-2217 Jan 30 j 08.28 -2217 Apr 29 j 15:11	3° 8 58'14		max. Earth dist.	-2211 May 29 j 11:10	17° 8 56'45 30.97877	7 A I I
evening set	-2217 Apr 29 j 13.11	3 036 14		morning rise	-2211 May 29 j 03:30 -2211 Jun 14 j 18:32	18° 8 33'16	AU
conjunction	-2217 May 15 j 22:56	4° 8 34'19	1027112	retrograde	-2211 Juli 14 j 18:32 -2211 Sep 11 j 10:52	20° 8 28'02	
minimum elong	-2217 May 15 j 22:57	4° 8 34'19		opposition	-2211 Sep 11 j 10.32 -2211 Nov 27 j 23:31	19° 8 04'23 -1°19'50	
max. Earth dist.	-2217 May 15 j 22:37		30.92262 AU	min. Earth dist.	-2211 Nov 27 j 23:31 -2211 Nov 28 j 04:44	19° 8 04'01 28.98467	7 ATT
morning rise	-2217 May 13 j 23.19 -2217 Jun 01 j 06:19	5° 8 10'22	30.92202 AU	direct	-2211 Nov 28 j 04.44 -2210 Feb 14 j 18:40	17° 8 39'27	AU
retrograde	-2217 July 01 j 00:19 -2217 Aug 29 j 15:27	7° 8 06'02		evening set	-2210 May 15 j 17:00	19° 8 35'02	
opposition	-2217 Aug 29 j 13.27 -2217 Nov 15 j 10:09	5° 8 41'52	1042'17	evening set	-2210 Way 15 j 17.00	19 033 02	
min. Earth dist.	-2217 Nov 15 j 10:34		28.92656 AU	conjunction	-2210 Jun 01 j 01:28	20° 8 11'07 -1°12'44	
direct	-2217 Nov 13 j 10:34 -2216 Feb 01 j 20:37	4° 8 17'02	20.72030 AC	minimum elong	-2210 Jun 01 j 01:28	20° 8 11'07 1°12'41	
evening set	-2216 May 01 j 05:05	6°812'14		max. Earth dist.	-2210 May 31 j 19:25	20° 8 10'33 30.98922	ΔΙΙ
evening set	-2210 May 01 J 03.03	0 012 14		morning rise	-2210 Jun 17 j 08:31	20°847'06	AU
conjunction	-2216 May 17 j 12:51	6° 8 48'18	-1°34'07	retrograde	-2210 Sep 13 j 22:44	22° 8 41'43	
minimum elong	-2216 May 17 j 12:52	6° 8 48'18		opposition	-2210 Nov 30 j 09:45	21° 8 18'10 -1°15'38	
max. Earth dist.	-2216 May 17 j 12:32		30.92919 AU	min. Earth dist.	-2210 Nov 30 j 15:31	21° 8 17'46 28.99448	AII
morning rise	-2216 Jun 02 j 20:25	7° 8 24'22	30.72717710	direct	-2209 Feb 17 j 08:06	19° 8 53'14	710
retrograde	-2216 Aug 31 j 02:47	9° 8 19'51		evening set	-2209 May 18 j 07:12	21° 8 48'52	
opposition	-2216 Nov 16 j 20:23	7° 8 55'44	-1°38'54	evening set	220) May 10 J 07.12	21 040 32	
min. Earth dist.	-2216 Nov 16 j 20:59		28.93374 AU	conjunction	-2209 Jun 03 j 15:30	22° 8 24'57 -1°08'45	
direct	-2215 Feb 03 j 07:50	6° 8 30'50	20.75574710	minimum elong	-2209 Jun 03 j 15:30	22° 8 24'57 1°08'42	
evening set	-2215 May 03 j 19:00	8° 8 26'05		max. Earth dist.	-2209 Jun 03 j 07:11	22° 8 24'10 30.99854	LAII
evening sec	2213 May 03 j 19.00	0 02003		morning rise	-2209 Jun 19 j 22:31	23° 8 00'55	710
conjunction	-2215 May 20 j 03:04	9° 8 02'09	-1°30'53	retrograde	-2209 Sep 16 j 11:40	24° 8 55'23	
minimum elong	-2215 May 20 j 03:04	9° 8 02'09		opposition	-2209 Dec 02 j 20:09	23° 8 31'54 -1°11'20	
max. Earth dist.	-2215 May 20 j 01:53		30.93700 AU	min. Earth dist.	-2209 Dec 03 j 03:10	23° 8 31'25 29.00329	AU
morning rise	-2215 Jun 05 j 10:28	9° 8 38'12	20.52700710	direct	-2208 Feb 19 j 20:01	22° 8 06'56	0
retrograde	-2215 Sep 02 j 12:06	11° 8 33'31		evening set	-2208 May 19 j 20:58	24° 8 02'37	
opposition	-2215 Nov 19 j 06:36	10° 8 09'28	-1°35'22	January 301	2200 May 17 J 20.36	O\23/	
min. Earth dist.	-2215 Nov 19 j 08:30		28.94217 AU	conjunction	-2208 Jun 05 j 05:26	24° 8 38'41 -1°04'40	
direct	-2214 Feb 05 j 19:14	8° 8 44'33	21, 110	minimum elong	-2208 Jun 05 j 05:27	24° 8 38'41 1°04'38	
evening set	-2214 May 06 j 09:03	10° 8 39'51		max. Earth dist.	-2208 Jun 04 j 21:02	24° 8 37'54 31.00679	AII
		11 00001		morning rise	-2208 Jun 21 j 12:09	25° 8 14'38	- 10
						2 - 1.00	

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2208 in astronomical counting style is the year 2209 BCE in historical counting style. 27°**8**08'56 -2208 Sep 17 j 22:11 evening set -2201 Jun 05 j 20:38 9°**Ⅱ**34'30 retrograde -2208 Dec 04 j 06:29 25°845'32 -1°06'55 opposition min. Earth dist. -2208 Dec 04 j 14:44 25°844'57 29.01089 AU -2201 Jun 22 j 04:12 10°**I**10'28 -0°33'57 conjunction -2207 Feb 21 j 09:02 24°820'31 -2201 Jun 22 j 04:12 10°**耳**10′28 0°33′55 minimum elong direct -2201 Jun 21 j 14:04 -2207 May 22 j 11:02 26°816'14 10°**Д**09'09 31.06042 AU evening set max. Earth dist. -2201 Jul 08 j 09:09 10°**Ⅱ**46'14 morning rise -2201 Oct 04 j 00:06 12°**Ⅲ**39'30 conjunction -2207 Jun 07 j 19:18 26°**8**52'17 -1°00'30 retrograde -2207 Jun 07 j 19:19 -2201 Dec 20 j 05:32 11°**耳**16'31 -0°33'50 minimum elong 26°**8**52'17 1°00'28 opposition -2207 Jun 07 j 08:38 max. Earth dist. 26°**8**51'18 31.01406 AU min. Earth dist. -2201 Dec 20 j 18:07 11°**Ⅱ**15'38 29.06595 AU morning rise -2207 Jun 24 j 02:01 27°**8**28'14 direct -2200 Mar 08 j 20:29 9°**Ⅱ**51′16 retrograde -2207 Sep 20 j 09:36 29°**8**22'21 evening set -2200 Jun 07 j 09:57 11°**Ⅱ**47'15 -2207 Dec 06 j 16:35 27°**8**59'00 -1°02'26 opposition 27°**8**58'23 29.01778 AU -2200 Jun 23 j 17:11 min. Earth dist. -2207 Dec 07 j 01:23 conjunction 12°**I**23'13 -0°29'19 -2200 Jun 23 j 17:11 direct -2206 Feb 23 j 20:50 26°**8**33'56 minimum elong 12°**Ⅲ**23'13 0°29'16 evening set -2206 May 25 j 00:53 28°**8**29'41 max. Earth dist. -2200 Jun 23 j 01:33 12°**Д**21'46 31.07136 AU morning rise -2200 Jul 09 j 21:55 12°**Ⅲ**58'58 conjunction -2206 Jun 10 j 09:15 29°805'44 -0°56'15 retrograde -2200 Oct 05 j 13:01 14°**Ⅲ**52'08 minimum elong -2206 Jun 10 j 09:15 29°805'44 0°56'13 opposition -2200 Dec 21 j 15:44 13°**II**29'14 -0°28'52 max. Earth dist. -2206 Jun 09 j 22:32 29°804'45 31.02066 AU min. Earth dist. -2200 Dec 22 j 05:07 13°**Д**28'18 29.07719 AU morning rise -2206 Jun 26 j 15:34 29°841'39 direct -2199 Mar 11 j 08:43 12°**Ⅱ**04'01 -2206 Jul 05 j 06:38 $0^{\circ}II$ evening set -2199 Jun 09 j 23:19 14°**Ⅱ**00'04 retrograde -2206 Sep 22 j 18:43 1°**I**I35'36 opposition -2206 Dec 09 i 02:53 0°**I**12'18 -0°57'50 conjunction -2199 Jun 26 i 06:27 14°**I**I36′00 -0°24′39 min. Earth dist. -2206 Dec 09 j 13:16 0°**Д**11'34 29.02419 AU minimum elong -2199 Jun 26 i 06:27 14° II 36'00 0°24'36 -2206 Dec 16 j 09:30 30°R₩ max. Earth dist. -2199 Jun 25 j 15:07 14°**Д**34'35 31.08265 AU direct -2205 Feb 26 j 08:35 28°847'11 -2199 Jul 12 j 10:40 15°**Ⅱ**11'43 morning rise -2205 May 06 j 15:47 $0^{\circ}II$ -2199 Oct 07 j 23:11 17°**Ⅲ**04'47 retrograde -2205 May 27 j 14:35 0°**I**I42'56 -2199 Dec 24 j 01:54 15°**I**I42'00 -0°23'51 opposition evening set -2199 Dec 24 j 16:23 15°**Ц**40'59 29.08831 AU min. Earth dist. -2205 Jun 12 j 22:43 1°**Ⅱ**18'59 -0°51'56 -2198 Mar 13 j 21:58 14°**Ⅱ**16'48 conjunction direct 16°**Ⅱ**12'55 -2205 Jun 12 j 22:43 1°**I**18'59 0°51'53 -2198 Jun 12 j 12:53 minimum elong evening set -2205 Jun 12 j 10:20 1°**Д**17'50 31.02716 AU max. Earth dist. -2205 Jun 29 j 04:57 1°**I**I54'52 -2198 Jun 28 j 19:32 16°**Ⅱ**48'49 -0°19'56 conjunction morning rise -2198 Jun 28 j 19:32 -2205 Sep 25 j 06:29 3°**Ⅱ**48'40 16°**Ⅱ**48'49 0°19'53 retrograde minimum elong 2°**I**25'24 -0°53'11 -2198 Jun 28 j 02:13 -2205 Dec 11 j 12:58 16°**耳**47'14 31.09357 AU opposition max. Earth dist. -2205 Dec 11 j 23:08 2°**Ⅲ**24'41 29.03076 AU -2198 Jul 14 j 23:30 17°**Ⅲ**24'31 min. Earth dist. morning rise 19°**Ⅱ**17'28 -2204 Feb 28 j 19:55 1°**I**I00'13 -2198 Oct 10 j 11:01 direct retrograde evening set -2204 May 29 j 04:10 2°II56'01 opposition -2198 Dec 26 j 12:12 17°**Ⅲ**54'47 -0°18'48 min. Earth dist. -2198 Dec 27 j 02:59 17°**Д**53'45 29.09891 AU conjunction -2204 Jun 14 j 12:15 3°II32'02 -0°47'32 direct -2197 Mar 16 j 09:45 16°**Ⅲ**29'34 minimum elong -2204 Jun 14 j 12:15 3°II32'02 0°47'29 -2197 Jun 15 j 02:06 18°**Ⅲ**25'44 evening set max. Earth dist. -2204 Jun 13 j 23:37 3°**Д**30'52 31.03393 AU -2204 Jun 30 j 18:07 4°**Ⅱ**07'54 -2197 Jul 01 j 08:34 19°**耳**01'38 -0°15'12 morning rise conjunction -2204 Sep 26 j 15:11 6°**Ⅲ**01'33 -2197 Jul 01 j 08:34 19°**耳**01'38 0°15'10 retrograde minimum elong -2204 Dec 12 j 23:07 4°**耳**38'20 -0°48'26 behind sun begin -2197 Jul 01 j 06:38 19°**Ⅲ**01'27 opposition 4°**Д**37'30 29.03795 AU -2197 Jul 01 i 10:29 19°**Ⅱ**01'48 min. Earth dist. -2204 Dec 13 i 10:55 behind sun end 3°**Ⅱ**13'07 19°**Д**00'03 31.10360 AU direct -2203 Mar 02 j 06:53 max. Earth dist. -2197 Jun 30 i 15:25 5°**Ⅱ**08'56 evening set -2203 May 31 j 17:42 morning rise -2197 Jul 17 i 11:55 19°**Ⅲ**37'17 21°**II**30'08 retrograde -2197 Oct 12 i 20:37 -2203 Jun 17 i 01:37 5°II44'56 -0°43'04 opposition -2197 Dec 28 j 22:40 20°II07'31 -0°13'43 conjunction -2203 Jun 17 i 01:38 5°II44'56 0°43'01 min. Earth dist. -2197 Dec 29 j 15:02 20°**Ⅱ**06'22 29.10841 AU minimum elong max. Earth dist. -2203 Jun 16 i 12:15 5°**Д**43'42 31.04166 AU direct -2196 Mar 17 j 21:50 18°**Ⅱ**42'18 -2203 Jul 03 j 07:18 6°**Ⅲ**20'46 -2196 Jun 16 j 15:27 20°**Ⅲ**38′29 morning rise evening set 8°**Ⅱ**14'16 retrograde -2203 Sep 29 j 02:13 opposition -2203 Dec 15 j 09:12 6°II51'07 -0°43'38 conjunction -2196 Jul 02 j 21:27 21°II14'21 -0°10'28 6°**Ц**50'19 29.04609 AU min. Earth dist. -2203 Dec 15 j 20:36 minimum elong -2196 Jul 02 j 21:27 21°**I**14'21 0°10'25 5°**Ⅱ**25'52 -2202 Mar 04 j 20:28 behind sun begin -2196 Jul 02 j 16:20 21°**Ⅲ**13'53 direct -2196 Jul 03 j 02:34 -2202 Jun 03 j 07:15 7°**I**I21'44 21°**I**14'48 evening set behind sun end -2196 Jul 02 j 02:27 21°**Д**12'35 31.11260 AU max. Earth dist. -2202 Jun 19 j 14:56 7°**I**57'44 -0°38'32 -2196 Jul 19 j 00:32 21°**∏**49'58 conjunction morning rise -2202 Jun 19 j 14:56 -2196 Oct 14 j 08:13 23°**Ⅲ**42'41 minimum elong 7°**I**57'44 0°38'29 retrograde max. Earth dist. -2202 Jun 19 j 00:44 7°**I**56'25 31.05036 AU opposition -2196 Dec 30 j 08:50 22°**II**20'08 -0°08'38 morning rise -2202 Jul 05 j 20:15 8°**Ⅲ**33'32 min. Earth dist. -2196 Dec 31 j 01:06 22°**Ⅱ**18'59 29.11683 AU retrograde -2202 Oct 01 j 12:52 10°**Ⅲ**26'55 direct -2195 Mar 20 j 09:34 20°**I**54'52 opposition -2202 Dec 17 j 19:23 9°**I**03'50 -0°38'46 evening set -2195 Jun 19 j 04:41 22°**Ⅲ**51′05 min. Earth dist. -2202 Dec 18 j 08:00 9°**П**02'57 29.05549 AU

-2201 Mar 07 j 07:32

direct

7°**Ⅲ**38'34

conjunction

-2195 Jul 05 j 10:25 23°**П**26'55 -0°05'43

Planetary Pheno	omena of Neptune 1	from -2400	through -1898	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 17
					2196 BCE in historical c		
minimum elong	-2195 Jul 05 j 10:25	23° Ⅲ 26'55		minimum elong	-2190 Jul 17 j 00:35	4° 5 26'33	0°18'10
behind sun begin	-2195 Jul 05 j 04:07	23° II 26'21		morning rise	-2190 Aug 02 j 00:28	5° © 01'54	
behind sun end	-2195 Jul 05 j 16:43	23° II 27'28		retrograde	-2190 Oct 27 j 19:22	6°953'58	
max. Earth dist.	-2195 Jul 04 i 14:59	23° II 25'07	31.12039 AU	opposition	-2189 Jan 12 j 23:00	5° © 31'34	0°21'47
morning rise	-2195 Jul 21 j 12:55	24° Ⅱ 02'29		min. Earth dist.	-2189 Jan 13 j 18:56		29.15886 AU
retrograde	-2195 Oct 16 j 16:21	25° I I55'06		direct	-2189 Apr 03 j 11:19	4°906'07	
opposition	-2194 Jan 01 j 19:18	24° I I32'34	-0°03'32	evening set	-2189 Jul 03 j 09:31	6°902'23	
min. Earth dist.	-2194 Jan 02 j 13:24		29.12415 AU	evening sec	210, 041 00 j 0,.51	0 - 02 - 23	
direct	-2194 Mar 22 j 20:55	23° I 107'17	27.12.110.110	conjunction	-2189 Jul 19 j 12:25	6° © 37'59	0°22'47
evening set	-2194 Jun 21 j 17:50	25° I I03'29		minimum elong	-2189 Jul 19 j 12:24	6°937'59	
evening set	2174 Juli 21 j 17.50	23 110327		max. Earth dist.	-2189 Jul 18 j 13:48		31.16321 AU
conjunction	-2194 Jul 07 j 23:06	25° Ⅱ 39'17	-0°00'55	morning rise	-2189 Aug 04 j 11:53	7° © 13'18	31.10321710
minimum elong	-2194 Jul 07 j 23:07	25° I 39'17		retrograde	-2189 Oct 30 j 06:57	9° 5 05'18	
behind sun begin	-2194 Jul 07 j 16:34	25° Ⅱ 38'42	0 0031	opposition	-2188 Jan 15 j 09:21	7° © 42'59	0°26'46
behind sun end	-2194 Jul 08 j 05:41	25° II 39'52		min. Earth dist.	-2188 Jan 16 j 04:48		29.16839 AU
max. Earth dist.	-2194 Jul 07 j 02:45		31.12733 AU	direct	-2188 Apr 04 j 22:58	6°917'33	29.10839 AU
morning rise	-2194 Jul 07 j 02:43	25 II 37 24 26° II 14'49	31.12/33 AU	evening set	-2188 Apr 04 j 22:38	8°913'52	
•	-2194 Sep 13 j 18:51	20 H1449 27°H46'05		max. Earth dist.	-2188 Jul 20 j 02:45		31.17319 AU
asc. node	1 3			max. Earth dist.	-2188 Jul 20 J 02:45	8-204/25	31.1/319 AU
retrograde	-2194 Oct 19 j 02:20	28° Ⅱ 07'17	0001124		2100 1 1 21:00 20	00540106	000710
opposition	-2193 Jan 04 j 05:34	26° Ⅱ 44'48	0°01'34	conjunction	-2188 Jul 21 j 00:28	8°549'26	0°27'26
min. Earth dist.	-2193 Jan 04 j 23:28		29.13068 AU	minimum elong	-2188 Jul 21 j 00:28	8°949'26	0°27'29
direct	-2193 Mar 25 j 09:54	25° Ⅱ 19'28		morning rise	-2188 Aug 05 j 23:13	9° © 24'42	
evening set	-2193 Jun 24 j 06:51	27° Ⅱ 15'40		retrograde	-2188 Oct 31 j 16:30	11° © 16'40	
		_		opposition	-2187 Jan 16 j 19:44	9° 9 54'26	0°31'43
conjunction	-2193 Jul 10 j 11:43	27° Ⅱ 51′26	0°03'57	min. Earth dist.	-2187 Jan 17 j 16:18		29.17877 AU
minimum elong	-2193 Jul 10 j 11:43	27° Ⅱ 51'26	0°04'00	direct	-2187 Apr 07 j 11:00	8° © 29'04	
behind sun begin	-2193 Jul 10 j 05:14	27° Ⅱ 50'51		evening set	-2187 Jul 07 j 10:30	10° © 25'25	
behind sun end	-2193 Jul 10 j 18:11	27° Ⅱ 52'00					
max. Earth dist.	-2193 Jul 09 j 14:32	27° Ⅱ 49'28	31.13363 AU	conjunction	-2187 Jul 23 j 12:22	11° © 00'58	0°32'03
morning rise	-2193 Jul 26 j 13:16	28° Ⅲ 26'55		minimum elong	-2187 Jul 23 j 12:22	11° © 00'58	0°32'05
	-2193 Sep 17 j 21:40	0 \circ \odot		max. Earth dist.	-2187 Jul 22 j 13:29	10° © 58'50	31.18388 AU
retrograde	-2193 Oct 21 j 12:15	0° © 19'17		morning rise	-2187 Aug 08 j 10:41	11° © 36'11	
	-2193 Nov 24 j 17:54	30°RⅡ		retrograde	-2187 Nov 03 j 04:13	13° 5 28'07	
opposition	-2192 Jan 06 j 15:57	28° Ⅲ 56'48	0°06'39	opposition	-2186 Jan 19 j 06:11	12° 5 06'00	0°36'37
min. Earth dist.	-2192 Jan 07 j 11:05	28° Ⅲ 55′27	29.13702 AU	min. Earth dist.	-2186 Jan 20 j 02:07	12° © 04'36	29.18953 AU
direct	-2192 Mar 26 j 20:24	27° Ⅲ 31′24		direct	-2186 Apr 09 j 22:41	10°9540'40	
evening set	-2192 Jun 25 j 19:32	29° Ⅲ 27'36		evening set	-2186 Jul 09 j 22:54	12°537'05	
	-2192 Jul 10 j 12:11	0ಂತಾ		max. Earth dist.	-2186 Jul 25 j 01:32	13° © 10'29	31.19444 AU
max. Earth dist.	-2192 Jul 11 j 03:01	0°ഇ01'23	31.13999 AU		·		
	J			conjunction	-2186 Jul 26 j 00:16	13°9512'35	0°36'36
conjunction	-2192 Jul 12 j 00:04	0°503'20	0°08'41	minimum elong	-2186 Jul 26 j 00:16	13°©12'35	0°36'40
minimum elong	-2192 Jul 12 j 00:04	0°503'20	0°08'45	morning rise	-2186 Aug 10 j 21:49	13° © 47'46	
behind sun begin	-2192 Jul 11 j 18:25	0°ഇ02'50		retrograde	-2186 Nov 05 j 12:33	15°539'42	
behind sun end	-2192 Jul 12 j 05:43	0°503'50		opposition	-2185 Jan 21 j 16:54	14° © 17'39	0°41'28
morning rise	-2192 Jul 28 j 01:07	0° 5 38'47		min. Earth dist.	-2185 Jan 22 j 14:18		29.19998 AU
retrograde	-2192 Oct 22 j 22:14	2° © 31'01		direct	-2185 Apr 12 j 09:28	12° © 52'23	
opposition	-2191 Jan 08 j 02:15	1°508'34	0°11'43	evening set	-2185 Jul 12 j 11:21	14°5548'51	
min. Earth dist.	-2191 Jan 08 j 21:21		29.14344 AU	evening sec	2100 041 12 11.21	1. 0.001	
min. Darm dist.	-2191 Feb 24 j 15:27	30°R∏	27.11.011.110	conjunction	-2185 Jul 28 j 12:05	15° © 24'18	0°41'07
direct	-2191 Mar 29 j 10:02	29° ∏ 43'08		minimum elong	-2185 Jul 28 j 12:04	15°924'18	
direct	-2191 Apr 30 j 20:37	0°95		max. Earth dist.	-2185 Jul 27 j 12:44		31.20454 AU
evening set	-2191 Jun 28 j 08:24	1° 9 39'20		morning rise	-2185 Aug 13 j 09:05	15°959'27	31.20 1 31 AO
evening set	-2191 Juli 26 J 06.24	1 33920		retrograde	-2185 Aug 13 j 09:03 -2185 Nov 07 j 22:36	17°951'20	
agniumation	2101 Jul 14: 12:10	2°©15'01	0912124	•	-2184 Jan 24 j 03:30		0°46'15
conjunction	-2191 Jul 14 j 12:19			opposition	3	16°529'23	
minimum elong	-2191 Jul 14 j 12:19	2°9515'01	0°13'27	min. Earth dist.	-2184 Jan 25 j 00:33		29.20961 AU
behind sun begin	-2191 Jul 14 j 08:43	2°514'42		direct	-2184 Apr 13 j 21:25	15°504'09	
behind sun end	-2191 Jul 14 j 15:55	2°515'20	21.14662 : **	evening set	-2184 Jul 13 j 23:41	17° © 00'38	
max. Earth dist.	-2191 Jul 13 j 14:01		31.14668 AU		010471 00100	170000000	0045124
morning rise	-2191 Jul 30 j 12:54	2°950'25		conjunction	-2184 Jul 29 j 23:49	17°936'04	
retrograde	-2191 Oct 25 j 09:55	4° 5 642'34		minimum elong	-2184 Jul 29 j 23:49	17° © 36'04	
opposition	-2190 Jan 10 j 12:31	3° © 20'07		max. Earth dist.	-2184 Jul 28 j 23:45		31.21352 AU
min. Earth dist.	-2190 Jan 11 j 07:59		29.15065 AU	morning rise	-2184 Aug 14 j 20:12	18° © 11'10	
direct	-2190 Mar 31 j 22:06	1° 9 54'40		retrograde	-2184 Nov 09 j 08:47	20° © 03'02	
evening set	-2190 Jun 30 j 21:00	3° 9 50'54		opposition	-2183 Jan 25 j 14:18	18° 5 41'08	
max. Earth dist.	-2190 Jul 16 j 03:08	4° 5 24'34	31.15434 AU	min. Earth dist.	-2183 Jan 26 j 12:32		29.21812 AU
				direct	-2183 Apr 16 j 06:57	17° © 15'55	
conjunction	-2190 Jul 17 j 00:35	4° 5 26'33	0°18'06	evening set	-2183 Jul 16 j 12:00	19° © 12'26	

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2183 in astronomical counting style is the year 2184 BCE in historical counting style. max. Earth dist. -2183 Jul 31 j 11:33 19°5045'34 31.22133 AU morning rise -2177 Aug 30 j 22:38 3°**Ω**30'04 -2177 Nov 25 j 07:49 5°Ω21'42 retrograde -2183 Aug 01 j 11:36 19°547'48 0°49'57 opposition -2176 Feb 10 j 18:20 3°**Ω**59'52 1°21'28 conjunction -2183 Aug 01 j 11:36 -2176 Feb 11 j 17:45 19°9547'48 0°49'59 min. Earth dist. 3°**Ω**58'15 29.25826 AU minimum elong -2183 Aug 17 j 07:17 morning rise 20°9522'52 direct -2176 May 01 j 22:52 2°**Ω**34'37 -2183 Nov 11 j 18:33 -2176 Jul 31 j 22:35 retrograde 22°9514'42 evening set 4°**Ω**31′04 opposition -2182 Jan 28 j 01:03 20°**©**52'50 0°55'37 -2176 Aug 16 j 17:38 min. Earth dist. -2182 Jan 28 j 23:24 20°951'17 29.22523 AU conjunction 5°**Ω**06'05 1°18'10 direct -2182 Apr 18 j 20:33 19°9527'37 minimum elong -2176 Aug 16 j 17:37 5°**Ω**06'05 1°18'13 evening set -2182 Jul 19 j 00:20 21°524'09 max. Earth dist. -2176 Aug 15 j 17:00 5°**Ω**03'48 31.26101 AU morning rise -2176 Sep 01 j 08:52 5°**Ω**40'47 -2182 Aug 03 j 23:11 -2176 Nov 26 j 17:30 conjunction 21°959'28 0°54'15 retrograde 7°**Ω**32′26 -2182 Aug 03 j 23:11 minimum elong 21°959'28 0°54'18 opposition -2175 Feb 12 j 05:18 6°**Ω**10'38 1°25'24 max. Earth dist. -2182 Aug 02 j 21:47 21°557'07 31.22784 AU min. Earth dist. -2175 Feb 13 j 03:43 6°**Ω**09'05 29.26556 AU morning rise -2182 Aug 19 j 18:19 22°534'29 direct -2175 May 04 j 11:02 4°Ω45'26 retrograde -2182 Nov 14 j 06:23 24°9526'17 evening set -2175 Aug 03 j 10:04 6° **Ω**41'53 opposition -2181 Jan 30 j 11:55 23°904'25 1°00'10 max. Earth dist. -2175 Aug 18 j 03:44 7°**Ω**14'34 31.26852 AU min. Earth dist. -2181 Jan 31 j 10:39 23°502'51 29.23134 AU direct -2181 Apr 21 j 08:17 21°539'12 conjunction -2175 Aug 19 j 04:24 7°Ω16'52 1°21'47 evening set -2181 Jul 21 j 12:11 23°935'44 minimum elong -2175 Aug 19 j 04:24 7°**Ω**16′52 1°21'49 max. Earth dist. -2181 Aug 05 j 09:57 24°508'43 31.23339 AU morning rise -2175 Sep 03 j 18:58 7°**Ω**51'32 retrograde -2175 Nov 29 i 03:33 9°**Ω**43'12 conjunction -2181 Aug 06 j 10:35 24°511'00 0°58'28 opposition -2174 Feb 14 i 16:24 8°**Ω**21'27 1°29'12 minimum elong -2181 Aug 06 j 10:34 24°9511'00 0°58'30 min. Earth dist. -2174 Feb 15 i 15:23 8° **Ω**19'52 29.27334 AU -2181 Aug 22 j 04:57 24°9545'57 direct -2174 May 06 j 20:30 6° € 56'19 morning rise -2181 Nov 16 j 15:26 -2174 Aug 05 j 21:26 8°**Ω**52'47 retrograde 26°937'43 evening set opposition -2180 Feb 01 j 22:47 25°915'52 1°04'38 -2180 Feb 02 j 22:14 -2174 Aug 21 j 15:11 9°Ω27'43 1°25'17 min. Earth dist. 25°5014'15 29.23647 AU conjunction -2174 Aug 21 j 15:10 -2180 Apr 22 j 21:17 23°950'38 9°Ω27'43 1°25'20 direct minimum elong -2180 Jul 23 j 00:12 -2174 Aug 20 j 15:16 9°**Ω**25'29 31.27628 AU 25°9547'08 max. Earth dist. evening set -2174 Sep 06 j 05:02 10°Ω02'20 morning rise -2180 Aug 07 j 21:48 -2174 Dec 01 j 12:57 conjunction 26°522'21 1°02'36 11°**Ω**54′03 retrograde -2180 Aug 07 j 21:48 -2173 Feb 17 j 03:39 1°02'39 10°**Ω**32'21 1°32'53 minimum elong 26°9522'21 opposition -2180 Aug 06 j 19:56 -2173 Feb 18 j 02:17 10°**Ω**30'47 29.28091 AU max. Earth dist. 26°519'57 31.23828 AU min. Earth dist. -2180 Aug 23 j 15:42 -2173 May 09 j 09:21 9°**Ω**07'16 morning rise 26°957'16 direct -2180 Nov 18 j 03:01 11°**Ω**03'45 retrograde 28°9548'59 evening set -2173 Aug 08 j 08:44 -2179 Feb 03 j 09:26 opposition 27°527'07 1°09'00 max. Earth dist. -2173 Aug 23 j 00:54 11°**Ω**36'19 31.28349 AU min. Earth dist. -2179 Feb 04 j 08:26 27°525'32 29.24130 AU -2179 Apr 25 j 09:33 26°901'51 conjunction -2173 Aug 24 j 01:41 11°**Ω**38'38 1°28'39 direct -2179 Jul 25 j 11:57 27°958'21 minimum elong -2173 Aug 24 j 01:40 11°**Ω**38'38 1°28'41 evening set max. Earth dist. -2179 Aug 09 j 08:13 28°531'12 31.24297 AU morning rise -2173 Sep 08 j 15:01 12°**Ω**13′12 -2173 Dec 04 j 00:34 14°**Ω**04'59 retrograde -2179 Aug 10 j 09:04 28°533'31 1°06'39 -2172 Feb 19 j 14:56 12°**Ω**43'18 1°36'25 conjunction opposition -2179 Aug 10 j 09:03 28°933'31 -2172 Feb 20 j 13:36 12°**Ω**41'45 29.28783 AU minimum elong 1°06'41 min. Earth dist. -2179 Aug 26 j 02:08 29°9508'22 11°**Ω**18′17 morning rise direct -2172 May 10 j 19:41 -2179 Sep 20 j 14:16 $0^{\circ}\Omega$ evening set -2172 Aug 09 j 20:00 13°**Ω**14'47 retrograde -2179 Nov 20 j 12:42 1°Ω00'02 -2178 Jan 23 i 11:56 30°R55 conjunction -2172 Aug 25 i 12:26 13°Ω49'37 1°31'54 opposition -2178 Feb 05 i 20:26 29°538'10 1°13'16 minimum elong -2172 Aug 25 i 12:26 13°**Ω**49'37 1°31'57 min. Earth dist. -2178 Feb 06 i 20:17 29°536'32 29.24618 AU max. Earth dist. -2172 Aug 24 j 12:36 13°Ω47'24 31.28974 AU direct -2178 Apr 27 j 23:04 28°912'54 -2172 Sep 10 j 01:00 14°Ω24'09 morning rise -2178 Jul 23 j 15:19 $0^{\circ}\Omega$ -2172 Sep 27 j 04:15 15°Ω -2178 Jul 27 j 23:36 0°**Ω**09'22 -2172 Dec 05 j 09:58 16°**Ω**15'58 evening set retrograde -2171 Feb 17 j 15:16 15°RΩ conjunction -2178 Aug 12 j 19:53 0° Ω 44'29 1°10'35 opposition -2171 Feb 21 j 02:16 14°Ω54'20 1°39'49 -2178 Aug 12 j 19:53 14°**Ω**52'44 29.29343 AU minimum elong 0° Ω 44'29 1°10'38 min. Earth dist. -2171 Feb 22 j 01:34 max. Earth dist. -2178 Aug 11 j 18:25 0°**Ω**42'07 31.24810 AU direct -2171 May 13 j 07:51 13°**Ω**29'22 -2178 Aug 28 j 12:27 -2171 Jul 31 j 02:59 15°**Ω** morning rise $1^{\circ}\Omega 19'17$ -2178 Nov 22 j 23:39 -2171 Aug 12 j 07:26 15°**Ω**25'51 retrograde 3°**Ω**10′56 evening set opposition -2177 Feb 08 j 07:20 1°**Ω**49'04 1°17'26 16°**Ω**00'39 1°35'01 min. Earth dist. -2177 Feb 09 j 05:57 1°**Ω**47'30 29.25172 AU conjunction -2171 Aug 27 j 23:01 -2177 Apr 30 j 11:54 0°**£**23′48 minimum elong -2171 Aug 27 j 23:00 16°**Ω**00′38 1°35'03 direct evening set -2177 Jul 30 j 11:08 2°**Ω**20′15 max. Earth dist. -2171 Aug 26 j 22:01 15°**Ω**58'19 31.29464 AU max. Earth dist. -2177 Aug 14 j 06:05 2°**Q**53'01 31.25400 AU morning rise -2171 Sep 12 j 11:06 16°**Ω**35′08 retrograde -2171 Dec 07 j 22:07 18°**Ω**26′59 -2177 Aug 15 j 06:51 2°Ω55'19 1°14'26 -2170 Feb 23 j 13:43 17°**Ω**05'22 1°43'05 conjunction opposition -2177 Aug 15 j 06:51 2°**Ω**55'19 1°14'27 min. Earth dist. -2170 Feb 24 j 12:25 17°**Ω**03'49 29.29768 AU minimum elong

Planetary Pheno	omena of Neptune f	from -2400	through -1898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 19
Attention, astronom	nical year style is used: Th	e year -2170	in astronomical co	unting style is the year	2171 BCE in historical of	counting style.	
direct	-2170 May 15 j 19:57	15° Ω 40′26		minimum elong	-2164 Sep 11 j 22:01	1° m 15'41	1°52'48
evening set	-2170 Aug 14 j 18:28	17° Ω 36′54		max. Earth dist.	-2164 Sep 10 j 23:15	1° Mp 13'32	31.30353 AU
max. Earth dist.	-2170 Aug 29 j 09:31	18° Ω 09'25	31.29801 AU	morning rise	-2164 Sep 27 j 06:09	1° m 49'54	
				retrograde	-2164 Dec 22 j 19:02	3° Mp 42'03	
conjunction	-2170 Aug 30 j 09:33	18° Ω 11'39	1°38'00	opposition	-2163 Mar 10 j 22:42	2° m 20'16	2°01'29
minimum elong	-2170 Aug 30 j 09:33	18° Ω 11'39	1°38'02	min. Earth dist.	-2163 Mar 11 j 19:30	2° m 18'51	29.30612 AU
morning rise	-2170 Sep 14 j 20:51	18° Ω 46′06		direct	-2163 May 31 j 07:01	0° m 55'28	
retrograde	-2170 Dec 10 j 08:18	20° Ω 38'00		evening set	-2163 Aug 29 j 21:05	2° m 51'40	
opposition	-2169 Feb 26 j 01:22	19° Ω 16'22	1°46'11	max. Earth dist.	-2163 Sep 13 j 10:51		31.30599 AU
min. Earth dist.	-2169 Feb 27 j 01:00		29.30039 AU				
direct	-2169 May 18 j 09:18	17° Ω 51'28	27.50057110	conjunction	-2163 Sep 14 j 07:54	3° Mp 26'08	1°54'41
evening set	-2169 Aug 17 j 05:37	19° Ω 47'55		minimum elong	-2163 Sep 14 j 07:54	3° Mp 26'08	1°54'41
evening set	-210) Aug 17 J 05.57	17 6647 33		morning rise	-2163 Sep 29 j 15:22	4° Mp 00'19	1 3441
agniumation	2160 Can 01: 10:56	20° Ω 22'37	1940/50	-	-2163 Dec 25 j 04:21	5° My 52'34	
conjunction	-2169 Sep 01 j 19:56			retrograde	5	3 11/32 34 4° Mp 30'47	2002127
minimum elong	-2169 Sep 01 j 19:56	20° Ω 22'37		opposition	-2162 Mar 13 j 10:35	•	
max. Earth dist.	-2169 Aug 31 j 19:10		31.30007 AU	min. Earth dist.	-2162 Mar 14 j 07:16		29.30883 AU
morning rise	-2169 Sep 17 j 06:48	20° Ω 57'01		direct	-2162 Jun 02 j 18:15	3° m 06'03	
retrograde	-2169 Dec 12 j 19:33	22° Ω 48'57		evening set	-2162 Sep 01 j 07:21	5°₩02'14	
opposition	-2168 Feb 28 j 12:42	21° Ω 27'18					
min. Earth dist.	-2168 Feb 29 j 11:19		29.30185 AU	conjunction	-2162 Sep 16 j 17:26	5° Mg 36′39	1°56'26
direct	-2168 May 19 j 22:14	20° Ω 02'23		minimum elong	-2162 Sep 16 j 17:25	5°₩36'39	1°56'28
evening set	-2168 Aug 18 j 16:30	21° Ω 58'49		max. Earth dist.	-2162 Sep 15 j 20:03	5° Mp 34′38	31.30896 AU
max. Earth dist.	-2168 Sep 02 j 05:59	22° Ω 31'12	31.30090 AU	morning rise	-2162 Oct 02 j 00:36	6° Mp 10′49	
				retrograde	-2162 Dec 27 j 16:44	8° m 03'09	
conjunction	-2168 Sep 03 j 06:18	22° Ω 33'28	1°43'32	opposition	-2161 Mar 15 j 22:24	6° Mp 41'23	2°05'13
minimum elong	-2168 Sep 03 j 06:18	22° Ω 33'28	1°43'35	min. Earth dist.	-2161 Mar 16 j 17:50	6° 10 40'04	29.31190 AU
morning rise	-2168 Sep 18 j 16:30	23°Ω07'50		direct	-2161 Jun 05 j 05:48	5° m 16'44	
retrograde	-2168 Dec 14 j 04:06	24° Ω 59'47		evening set	-2161 Sep 03 j 17:31	7° m 12'53	
opposition	-2167 Mar 02 j 00:20	23°Ω38'07	1°51'56	max. Earth dist.	-2161 Sep 18 j 07:17		31.31184 AU
min. Earth dist.	-2167 Mar 02 j 00:20		29.30235 AU	max. Lartii dist.	-2101 Sep 10 J 07.17	/ III/ +3 2 +	31.31104 AC
	•	23 δι 30 30 22° Ω 13'13	29.30233 AU		21(1 0 10:02:12	70 m. 47117	1050101
direct	-2167 May 22 j 09:56			conjunction	-2161 Sep 19 j 03:13	7° Mp 47'17	
evening set	-2167 Aug 21 j 03:18	24° Ω 09'35		minimum elong	-2161 Sep 19 j 03:13	7° Mp 47'17	1°58'01
				morning rise	-2161 Oct 04 j 09:47	8° m/21'25	
conjunction	-2167 Sep 05 j 16:25	24°Ω44'12		retrograde	-2161 Dec 30 j 03:33	10° Mp 13'51	
minimum elong	-2167 Sep 05 j 16:25	24° Ω 44'12		opposition	-2160 Mar 17 j 10:19	8° m 52′05	
max. Earth dist.	-2167 Sep 04 j 16:26		31.30114 AU	min. Earth dist.	-2160 Mar 18 j 06:19		29.31461 AU
morning rise	-2167 Sep 21 j 02:05	25° Ω 18'31		direct	-2160 Jun 06 j 18:12	7° ™ 27'30	
retrograde	-2167 Dec 16 j 13:29	27° Ω 10′30		evening set	-2160 Sep 05 j 03:49	9° № 23'38	
opposition	-2166 Mar 04 j 11:51	25° Ω 48'47	1°54'35				
min. Earth dist.	-2166 Mar 05 j 10:15	25° Ω 47'15	29.30243 AU	conjunction	-2160 Sep 20 j 12:53	9° ™ 57'59	1°59'25
direct	-2166 May 24 j 22:53	24° Ω 23'53		minimum elong	-2160 Sep 20 j 12:53	9° m ,57'59	1°59'27
evening set	-2166 Aug 23 j 13:57	26° Ω 20′12		max. Earth dist.	-2160 Sep 19 j 16:41	9° Mp 56'06	31.31423 AU
max. Earth dist.	-2166 Sep 07 j 02:37	26° £ 52'33	31.30122 AU	morning rise	-2160 Oct 05 j 19:08	10° M 32'06	
				retrograde	-2160 Dec 31 j 15:10	12° m/24'38	
conjunction	-2166 Sep 08 j 02:25	26° Ω 54'47	1°48'28	opposition	-2159 Mar 19 j 22:17	11° m 02'51	2°08'14
minimum elong	-2166 Sep 08 j 02:24	26° Ω 54'47		min. Earth dist.	-2159 Mar 20 j 16:54	-	29.31651 AU
morning rise	-2166 Sep 23 j 11:32	27° Ω 29'04	1 .030	direct	-2159 Jun 09 j 06:28	9° m/38'20	27.01001110
retrograde	-2166 Dec 18 j 23:23	29° Ω 21'06		evening set	-2159 Sep 07 j 13:59	11° Mp 34'26	
opposition	-2165 Mar 06 j 23:33	27° Ω 59'20	1°57'03	oronnig sot	210, 50p 0/ J 15.59	11 IJJ Z Z U	
min. Earth dist.	-2165 Mar 07 j 21:59		29.30291 AU	conjunction	-2159 Sep 22 j 22:34	12° m 08'45	2°00'40
	-		29.30291 AU	-			
direct	-2165 May 27 j 08:50	26° Ω 34'27		minimum elong	-2159 Sep 22 j 22:34	12° Mp 08'45	
evening set	-2165 Aug 26 j 00:18	28° Ω 30'43		max. Earth dist.	-2159 Sep 22 j 02:59		31.31547 AU
		_		morning rise	-2159 Oct 08 j 04:18	12°Mp42'51	
conjunction	-2165 Sep 10 j 12:16	29° Ω 05'15		retrograde	-2158 Jan 03 j 00:57	14° Mp 35′28	
minimum elong	-2165 Sep 10 j 12:15	29° Ω 05'15		opposition	-2158 Mar 22 j 10:33	13°Mp 13'41	
max. Earth dist.	-2165 Sep 09 j 13:50		31.30198 AU	min. Earth dist.	-2158 Mar 23 j 05:51	13° Mp 12'22	29.31723 AU
morning rise	-2165 Sep 25 j 20:48	29° Ω 39'30		direct	-2158 Jun 11 j 18:30	11° m 49'13	
	-2165 Oct 05 j 10:18	0° m		evening set	-2158 Sep 10 j 00:10	13° m 45'15	
retrograde	-2165 Dec 21 j 07:56	1°My31'35					
opposition	-2164 Mar 08 j 11:10	0° ™ 09'48	1°59'21	conjunction	-2158 Sep 25 j 08:15	14° m 19'32	2°01'44
min. Earth dist.	-2164 Mar 09 j 08:41	0° Mp 08'20	29.30401 AU	minimum elong	-2158 Sep 25 j 08:15	14° m 19'32	2°01'45
	-2164 Mar 14 j 11:09	30°R Ω		max. Earth dist.	-2158 Sep 24 j 13:09		31.31556 AU
direct	-2164 May 28 j 21:41	28° Ω 44'57		morning rise	-2158 Oct 10 j 13:37	14° m 53'36	
	-2164 Aug 07 j 15:07	0° m)		retrograde	-2157 Jan 05 j 11:25	16° Mp 46'18	
evening set	-2164 Aug 27 j 10:48	0°Mp41'11		opposition	-2157 Mar 24 j 22:42	15° m/24'29	2°10'31
				min. Earth dist.	-2157 Mar 25 j 16:51		29.31657 AU
conjunction	-2164 Sep 11 j 22:02	1° Mp 15'41	1°52'46	direct	-2157 Jun 14 j 08:05	14° Mp 00'03	27.01007710
vonjunenom	2101 Sep 11 J 22.02		10		210 / 5011 17 1 00.00		

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2157 in astronomical counting style is the year 2158 BCE in historical counting style. -2157 Sep 12 j 10:13 15° m 56'01 retrograde -2150 Jan 20 j 12:31 1°**≏**59'42 evening set -2150 Apr 09 j 12:39 0°**2**37'28 2°12'39 opposition -2157 Sep 27 j 17:48 min. Earth dist. -2150 Apr 10 j 01:23 0°**2**36'37 29.29705 AU 16° m 30'17 2°02'38 conjunction -2157 Sep 27 j 17:48 -2150 May 03 j 10:39 16° m 30'17 2°02'38 30°R M minimum elong 29° m 13'15 -2157 Sep 26 j 22:35 -2150 Jun 29 j 15:58 max. Earth dist. 16° Mp 28'28 31.31417 AU direct 0∘**⊽** -2157 Oct 12 j 22:51 morning rise 17° m 04'19 -2150 Aug 23 j 05:54 -2156 Jan 07 j 21:45 -2150 Sep 27 j 05:43 retrograde 18° m 57'06 evening set 1°**£**08'41 opposition -2156 Mar 26 j 10:57 17° **m** 35'13 2°11'23 -2150 Oct 12 j 10:44 min. Earth dist. -2156 Mar 27 j 05:20 17° Mp 33'58 29.31460 AU conjunction 1°**£**42'47 2°03'59 -2150 Oct 12 j 10:44 direct -2156 Jun 15 j 18:56 16° Mp 10'48 minimum elong 1° \$\oldsymbol{\Omega} 42'47 2° 04'00 evening set -2156 Sep 13 j 20:09 18° m 06'41 max. Earth dist. -2150 Oct 11 j 21:30 1°**£**41'32 31.29518 AU -2156 Sep 28 j 09:23 -2150 Oct 27 j 13:54 max. Earth dist. 18° Mp 39'13 31.31155 AU morning rise 2°**£**16'45 -2149 Jan 22 j 23:10 retrograde 4° 210'11 conjunction -2156 Sep 29 j 03:25 18° Mp 40'55 2°03'21 opposition -2149 Apr 12 j 01:08 2°**£**47'57 2°12'12 minimum elong -2156 Sep 29 j 03:25 18° Mp 40'55 2°03'22 min. Earth dist. -2149 Apr 12 j 14:00 2°**2**47'04 29.29646 AU morning rise -2156 Oct 14 j 08:01 19° m 14'57 direct -2149 Jul 02 j 03:28 1°**2**3′50 retrograde -2155 Jan 09 j 06:07 21°M)07'47 evening set -2149 Sep 29 j 15:01 3°**2**19'12 opposition -2155 Mar 28 j 23:06 19°**m** 45'50 2°12'04 min. Earth dist. -2155 Mar 29 j 16:47 19° Mp 44'38 29.31134 AU conjunction -2149 Oct 14 j 19:49 3°**£**53'18 2°03'28 direct -2155 Jun 18 j 07:58 18° Mp 21'26 minimum elong -2149 Oct 14 j 19:49 3°**£**53′18 2°03'28 evening set -2155 Sep 16 j 06:07 20° m 17'13 max. Earth dist. -2149 Oct 14 j 07:45 3°**£**52'10 31.29480 AU morning rise -2149 Oct 29 i 22:50 4°**£**27'16 conjunction -2155 Oct 01 i 12:48 20° m 51'26 2°03'54 retrograde -2148 Jan 25 i 10:22 6°**£**20′50 minimum elong -2155 Oct 01 i 12:48 20° m 51'26 2°03'54 opposition -2148 Apr 13 j 13:35 4°**£**58'36 2°11'33 max. Earth dist. -2155 Sep 30 j 18:20 20° m 49'41 31.30797 AU min. Earth dist. -2148 Apr 14 j 00:51 4°**2**57'50 29.29592 AU -2155 Oct 16 j 17:14 21° m 25'26 -2148 Jul 03 j 16:43 3°**£**34'35 morning rise direct -2154 Jan 11 j 17:01 23° m 18'21 -2148 Oct 01 j 00:29 5°**£**29'55 retrograde evening set opposition -2154 Mar 31 j 11:24 21° m 56'19 2°12'34 -2154 Apr 01 j 04:18 -2148 Oct 16 j 04:55 6° **2**04'01 2°02'46 min. Earth dist. 21° m 55'10 29.30759 AU conjunction -2154 Jun 20 j 17:57 20° m/31'55 -2148 Oct 16 j 04:55 6°**£**04'01 direct minimum elong 2°02'46 -2154 Sep 18 j 15:37 -2148 Oct 15 j 17:02 6°**2**02'53 31.29411 AU 22° m 27'36 max. Earth dist. evening set -2148 Oct 31 j 07:52 6°**£**37'59 morning rise 23° Mp 01'47 2° 04'16 -2154 Oct 03 j 22:05 -2147 Jan 26 j 21:35 conjunction 8°**£**31'42 retrograde -2154 Oct 03 j 22:05 23° m 01'47 2°04'17 -2147 Apr 16 j 02:12 7°**2**09'27 2°10'42 minimum elong opposition -2154 Oct 03 j 05:31 23°M00'13 31.30408 AU -2147 Apr 16 j 13:23 7°**2**08'42 29.29504 AU max. Earth dist. min. Earth dist. 5°**-**45'32 -2154 Oct 19 j 02:05 23° M 35'47 -2147 Jul 06 j 03:11 morning rise direct -2153 Jan 14 j 02:08 25° Mp 28'46 -2147 Oct 03 j 09:52 retrograde evening set 7°**♀**40'48 opposition -2153 Apr 02 j 23:46 24° m 06'39 2°12'52 min. Earth dist. -2153 Apr 03 j 16:22 24° m 05'32 29.30374 AU conjunction -2147 Oct 18 j 14:12 8°**2**14'54 2°01'54 direct -2153 Jun 23 j 05:47 22° m/42'17 minimum elong -2147 Oct 18 j 14:12 8°**2**14'54 2°01'53 -2153 Sep 21 j 01:19 24° m 37'52 max. Earth dist. -2147 Oct 18 j 03:53 8°**£**13'55 31.29287 AU evening set -2147 Nov 02 j 16:54 8°**£**48'53 morning rise -2153 Oct 06 j 07:15 25° m 12'01 2°04'28 -2146 Jan 29 j 06:41 10°**£**42'44 conjunction retrograde -2153 Oct 06 j 07:15 25° m 12'01 2°04'27 -2146 Apr 18 j 14:59 9°**2**20'28 2°09'41 minimum elong opposition -2153 Oct 05 j 14:38 25° m 10'27 31.30054 AU min. Earth dist. -2146 Apr 19 j 01:12 9°**2**19'47 29.29322 AU max. Earth dist. morning rise -2153 Oct 21 i 11:09 25° m 46'00 direct -2146 Jul 08 i 15:52 7°**£**56'38 retrograde -2152 Jan 16 j 14:01 27° m 39'04 evening set -2146 Oct 05 j 19:17 9°**£**51'50 opposition -2152 Apr 04 i 11:51 26° m 16'54 2°12'59 min. Earth dist. -2152 Apr 05 i 02:48 26° m 15'54 29.30060 AU conjunction -2146 Oct 20 i 23:16 10°**2**25'56 2°00'51 direct -2152 Jun 24 j 16:48 24° m 52'33 minimum elong -2146 Oct 20 i 23:16 10°**2**25'56 2°00'50 -2152 Sep 22 j 10:50 26° m 48'05 max. Earth dist. -2146 Oct 20 j 12:32 10°**2**24'55 31.29053 AU evening set -2146 Nov 05 j 02:04 10°**£**59'55 morning rise -2152 Oct 07 j 16:32 27° m) 22'13 2°04'29 -2145 Jan 31 j 18:15 12°**£**53'54 conjunction retrograde minimum elong -2152 Oct 07 j 16:32 27° m 22'13 2°04'30 opposition -2145 Apr 21 j 03:48 11°**△**31'37 2°08'28 11°**2**30'58 29.29027 AU max. Earth dist. -2152 Oct 07 j 01:42 27° m 20'49 31.29777 AU min. Earth dist. -2145 Apr 21 j 13:17 -2145 Jul 11 j 01:46 morning rise -2152 Oct 22 j 20:03 27° m 56'11 direct 10°**♀**07'50 -2151 Jan 18 j 00:46 29° Mp 49'22 evening set -2145 Oct 08 j 04:42 12°**2**02'58 retrograde -2151 Apr 07 j 00:17 opposition 28° **m** 27'09 2°12'55 -2151 Apr 07 j 15:09 conjunction -2145 Oct 23 j 08:40 12°**△**37'03 1°59'37 min. Earth dist. 28° Mp 26'08 29.29833 AU -2151 Jun 27 j 04:25 -2145 Oct 23 j 08:40 direct 27° m 02'51 minimum elong 12°**♀**37'03 1°59'36 evening set -2151 Sep 24 j 20:17 28° m 58'19 max. Earth dist. -2145 Oct 22 j 23:29 12°**△**36'11 31.28683 AU max. Earth dist. -2151 Oct 09 j 11:15 29° Mg 31'05 31.29610 AU morning rise -2145 Nov 07 j 11:15 13°**£**11′03 retrograde -2144 Feb 03 j 04:03 15°**2**05′09 conjunction -2151 Oct 10 j 01:33 29° Mg 32'26 2°04'20 opposition -2144 Apr 22 j 16:33 13°**£**42'49 2°07'04 minimum elong -2151 Oct 10 j 01:34 29° Mp 32'26 2°04'19 min. Earth dist. -2144 Apr 23 j 02:01 13°**£**42'10 29.28574 AU -2151 Oct 22 j 07:31 0∘**⊽** -2144 Jul 12 j 13:39 12°**♀**19'05 direct -2151 Oct 25 j 04:57 0°₽06'24 -2144 Oct 09 j 14:13 morning rise evening set 14°**♀**14'07

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2144 in astronomical counting style is the year 2145 BCE in historical counting style. opposition -2144 Oct 24 i 17:54 14°**△**48'12 1°58'14 -2137 May 09 j 10:49 28°**♀**59'26 1°52'22 conjunction 28°**≙**59'17 29.24057 AU -2144 Oct 24 j 17:54 14°**2**48'12 1°58'14 min. Earth dist. -2137 May 09 j 13:07 minimum elong max. Earth dist. -2144 Oct 24 j 08:23 14°**2**47'18 31.28168 AU -2137 Jul 29 j 00:10 27°**♀**35'54 direct -2137 Oct 25 j 05:59 29°**₽**30'13 -2144 Nov 08 j 20:37 15°**£**22'12 morning rise evening set -2143 Feb 04 j 16:12 -2137 Nov 07 j 11:43 retrograde 17°**£**16'25 0°M opposition -2143 Apr 25 j 05:24 15°**♀**54'00 2°05'30 0°**™**04'19 -2137 Nov 09 j 09:19 1°43'54 min. Earth dist. -2143 Apr 25 j 13:30 15°**⊆**53'27 29.27986 AU conjunction -2137 Nov 09 j 09:19 1°43'52 direct -2143 Jul 15 j 00:34 14°**£**30′17 minimum elong 0°**IL**04'19 -2137 Nov 09 j 06:38 evening set -2143 Oct 11 j 23:25 16°**£**25′13 max. Earth dist. 0°ML04'04 31.23730 AU morning rise -2137 Nov 24 j 12:40 0°MJ38'26 conjunction -2143 Oct 27 j 03:05 16°**≏**59'18 1°56'40 retrograde -2136 Feb 20 j 23:05 2°MJ33'23 -2143 Oct 27 j 03:05 minimum elong 16°**≏**59'18 1°56'39 opposition -2136 May 10 j 23:38 1°ML10'26 1°49'35 -2143 Oct 26 j 18:59 max. Earth dist. 16°**♀**58'32 31.27517 AU min. Earth dist. -2136 May 11 j 00:50 1°M10'22 29.23601 AU morning rise -2143 Nov 11 j 05:42 17°**2**33'19 -2136 Jul 01 j 15:38 30°R<u>₽</u> retrograde -2142 Feb 07 j 03:06 19°**£**27'37 direct -2136 Jul 30 j 10:30 29°**£**46'59 opposition -2142 Apr 27 j 18:27 18°**≏**05'06 2°03'44 -2136 Aug 27 j 12:01 0°M min. Earth dist. -2142 Apr 28 j 02:44 18°**♀**04'33 29.27283 AU evening set -2136 Oct 26 j 15:02 1°M41'13 direct -2142 Jul 17 j 11:41 16°**-**41′25 18°**≏**36'13 evening set -2142 Oct 14 j 08:40 conjunction -2136 Nov 10 j 18:33 2°M15'21 1°41'13 minimum elong -2136 Nov 10 j 18:33 2°M15'21 1°41'12 conjunction -2142 Oct 29 j 12:11 19°**♀**10'17 1°54'57 max. Earth dist. -2136 Nov 10 j 17:50 2°M15'17 31.23277 AU minimum elong -2142 Oct 29 j 12:12 19°**♀**10'17 1°54'57 morning rise -2136 Nov 25 j 21:55 2°M49'30 max. Earth dist. -2142 Oct 29 i 04:35 19°**2**09'34 31.26794 AU retrograde -2135 Feb 22 i 09:21 4°M44'36 morning rise -2142 Nov 13 j 14:56 19°**-**44′19 opposition -2135 May 13 j 12:46 3°M21'37 1°46'39 retrograde -2141 Feb 09 j 14:54 21°**₽**38'43 min. Earth dist. -2135 May 13 j 13:34 3°M21'34 29.23130 AU opposition -2141 Apr 30 j 07:10 20°**£**16'06 -2135 Aug 01 j 22:20 1°ML58'15 2°01'49 direct -2141 Apr 30 j 13:30 20°**£**15'40 -2135 Oct 29 j 00:10 3°M52'25 min. Earth dist. 29 26537 AU evening set -2141 Jul 19 j 23:05 18°**♀**52'24 direct -2141 Oct 16 j 17:46 20°**₽**47'05 -2135 Nov 13 j 03:36 conjunction 4°M,26'33 1°38'23 evening set -2135 Nov 13 j 03:36 minimum elong 4°ML26'33 1°38'21 -2141 Oct 31 j 21:14 21°**2**21'09 -2135 Nov 13 j 03:00 conjunction 1°53'04 max. Earth dist. -2141 Oct 31 j 21:14 21°**£**21'09 1°53'02 -2135 Nov 28 j 07:18 5°M00'44 minimum elong morning rise max. Earth dist. -2141 Oct 31 j 14:32 21°**2**20'32 31.26044 AU -2134 Feb 24 j 21:46 6°M55'59 retrograde -2141 Nov 16 j 00:02 21°**♀**55'12 -2134 May 16 j 01:53 5°M32'58 1°43'32 morning rise opposition -2140 Feb 12 j 02:16 23°**2**49'41 -2134 May 16 j 01:07 retrograde min. Earth dist. 5°MJ33'01 29.22618 AU -2140 May 01 j 20:06 -2134 Aug 04 j 08:37 opposition 22°**≏**26'58 1°59'43 direct 4°M09'40 -2134 Oct 31 j 09:21 min. Earth dist. -2140 May 02 j 02:24 22°**♀**26'32 29.25804 AU evening set 6°M03'46 direct -2140 Jul 21 j 11:16 21°**≙**03'17 -2140 Oct 18 j 02:48 22°**♀**57'52 conjunction -2134 Nov 15 j 12:58 6°M37'56 1°35'25 evening set minimum elong -2134 Nov 15 j 12:58 6°M37'56 1°35'24 conjunction -2140 Nov 02 j 06:15 23°**£**31'56 1°51'01 max. Earth dist. -2134 Nov 15 j 13:41 6°M38'00 31.22239 AU -2140 Nov 02 j 06:15 -2134 Nov 30 j 16:48 7°M12'08 minimum elong 23°**₽**31'56 1°50'59 morning rise -2140 Nov 02 j 01:06 23°**≙**31'27 31.25345 AU -2133 Feb 27 j 09:08 9°M07'32 max. Earth dist. retrograde -2140 Nov 17 j 09:03 24°**♀**05'59 -2133 May 18 j 15:02 7°M44'29 1°40'17 morning rise opposition -2139 Feb 13 j 14:00 min. Earth dist. -2133 May 18 j 14:34 7°M44'31 29.22004 AU retrograde 26°**♀**00'34 opposition -2139 May 04 j 08:54 24°**△**37'45 1°57'26 direct -2133 Aug 06 i 18:53 6°M21'15 min. Earth dist. -2139 May 04 j 13:12 24°**△**37'28 29.25132 AU evening set -2133 Nov 02 j 18:39 8°M15'17 direct -2139 Jul 24 j 00:38 23°**♀**14'06 -2133 Nov 17 j 22:21 evening set -2139 Oct 20 j 11:57 25°**♀**08'35 conjunction 8°ML49'27 1°32'18 minimum elong -2133 Nov 17 i 22:22 8°ML49'28 1°32'15 -2139 Nov 04 i 15:14 25°**Ω**42'40 1°48'48 max. Earth dist. -2133 Nov 17 j 23:26 8°ML49'34 31.21572 AU conjunction -2139 Nov 04 i 15:15 25°**Ω**42'40 -2133 Dec 03 j 02:28 9°M23'42 minimum elong 1°48'46 morning rise max. Earth dist. -2139 Nov 04 j 10:32 25°**2**42'13 31.24723 AU -2132 Feb 29 j 21:51 11°ML19'14 retrograde morning rise -2139 Nov 19 j 18:16 26°**♀**16'44 opposition -2132 May 20 j 04:07 9°M56'08 1°36'53 9°M56'17 29.21256 AU retrograde -2138 Feb 16 j 01:23 28°**₽**11'26 min. Earth dist. -2132 May 20 j 01:55 opposition -2138 May 06 j 21:54 26°**Ω**48'34 1°54'59 direct -2132 Aug 08 j 05:56 8°M32'56 min. Earth dist. -2138 May 07 j 01:35 26°**♀**48'19 29.24562 AU evening set -2132 Nov 04 j 03:55 10°M26'54 -2138 Jul 26 j 11:10 25°**£**24'58 direct -2138 Oct 22 j 20:49 -2132 Nov 19 j 07:41 11°ML01'06 1°29'03 evening set 27°**₽**19'21 conjunction minimum elong -2132 Nov 19 j 07:42 11°M01'06 1°29'01 -2138 Nov 07 j 00:18 conjunction 27°**£**53′26 1°46'26 max. Earth dist. -2132 Nov 19 j 09:09 11°ML01'14 31.20748 AU minimum elong -2138 Nov 07 j 00:18 27°**£**53′26 1°46'25 morning rise -2132 Dec 04 j 12:04 11°M35'22 max. Earth dist. -2138 Nov 06 j 21:40 27°**£**53'12 31.24199 AU retrograde -2131 Mar 03 j 10:19 13°M31'03 morning rise -2138 Nov 22 j 03:20 28°**£**27'32 opposition -2131 May 22 j 17:27 12°M07'52 1°33'20 -2137 Jan 12 j 14:42 0°M min. Earth dist. -2131 May 22 j 15:35 12°M07'59 29.20359 AU -2137 Feb 18 j 11:02 0°M22'21 -2131 Aug 10 j 17:37 10°M44'42 retrograde direct -2137 Mar 28 j 13:05 -2131 Nov 06 j 13:09 12°M38'35 evening set

Dlanatary Dhan	omana of Nantuna 1	From 2400	through 1000	(III) Astrodion	at AC 19 Eab 2025	14.22	
•	omena of Neptune f nical year style is used: Th		•				page 22
conjunction	-2131 Nov 21 j 17:11	13°M12'47		retrograde	-2124 Mar 18 j 19:00	28°M53'20	
minimum elong	-2131 Nov 21 j 17:11	13°M12'47		opposition	-2124 Jun 07 j 13:12	27°M29'34	1°05'06
max. Earth dist.	-2131 Nov 21 j 19:53		31.19796 AU	min. Earth dist.	-2124 Jun 07 j 04:28	27°M30'09	
morning rise	-2131 Dec 06 j 21:47	13°M47'06		direct	-2124 Aug 26 j 02:41	26°M06'31	
Č	-2130 Jan 13 j 04:32	15° ™		evening set	-2124 Nov 21 j 05:22	27° M 59'47	
retrograde	-2130 Mar 05 j 23:11	15°M42'52		Č	· ·		
	-2130 Apr 29 j 05:38	15°RM		conjunction	-2124 Dec 06 j 10:54	28°M34'10	0°58'52
opposition	-2130 May 25 j 06:37	14°M19'36	1°29'40	minimum elong	-2124 Dec 06 j 10:54	28°M34'10	0°58'50
min. Earth dist.	-2130 May 25 j 03:12		29.19333 AU	max. Earth dist.	-2124 Dec 06 j 20:28		31.13024 AU
direct	-2130 Aug 13 j 06:43	12°M56'27		morning rise	-2124 Dec 21 j 18:00	29°M08'44	
evening set	-2130 Nov 08 j 22:23	14°M50'13			-2123 Jan 15 j 12:36	0° ∡ 7	
	-2130 Nov 13 j 07:37	15° M		retrograde	-2123 Mar 21 j 07:51	1° ₹ 05'18	
. ,.	2120 N 24 : 02 20	1.50 m 0.4107	1022110	*4*	-2123 May 29 j 14:49	30°RM 200™ 41120	1000120
conjunction minimum elong	-2130 Nov 24 j 02:29	15°M24'27 15°M24'28		opposition min. Earth dist.	-2123 Jun 10 j 02:17 -2123 Jun 09 j 15:28	29°M41'30	1°00'38 29.12698 AU
max. Earth dist.	-2130 Nov 24 j 02:29 -2130 Nov 24 j 05:09		31.18728 AU	direct	-2123 Juli 09 j 13:28 -2123 Aug 28 j 13:27	28°M18'30	29.12098 AU
morning rise	-2130 Nov 24 j 03:03	15°M58'48	31.10/20 AU	direct	-2123 Nov 18 j 06:27	20 II U 10 30	
retrograde	-2129 Mar 08 j 11:08	17°M54'41		evening set	-2123 Nov 23 j 14:46	0° √ 11'43	
opposition	-2129 May 27 j 19:50	16°M31'18	1°25'52	evening sec	2123 1101 23 1 1 1 10	0 7. 11 15	
min. Earth dist.	-2129 May 27 j 16:16		29.18232 AU	conjunction	-2123 Dec 08 j 20:30	0° ∡ ¹46'07	0°54'38
direct	-2129 Aug 15 j 17:25	15°M08'08		minimum elong	-2123 Dec 08 j 20:30	0° ∡ ¹46′08	0°54'35
evening set	-2129 Nov 11 j 07:29	17° M 01'49		max. Earth dist.	-2123 Dec 09 j 06:40	0° ∡ 747'05	31.12310 AU
				morning rise	-2123 Dec 24 j 04:04	1° х 20′44	
conjunction	-2129 Nov 26 j 11:56	17° M 36'04	1°18'34	retrograde	-2122 Mar 23 j 20:48	3° ҂ 17′27	
minimum elong	-2129 Nov 26 j 11:56	17°M36'04		opposition	-2122 Jun 12 j 15:31	1° ≯ 53'35	0°56'04
max. Earth dist.	-2129 Nov 26 j 16:30		31.17610 AU	min. Earth dist.	-2122 Jun 12 j 04:53		29.11990 AU
morning rise	-2129 Dec 11 j 17:09	18° ™ 10′26		direct	-2122 Aug 30 j 23:54	0° ∡ 30'39	
retrograde	-2128 Mar 09 j 21:23	20°M06'24	1001155	evening set	-2122 Nov 26 j 00:08	2° ₹ 23'49	
opposition	-2128 May 29 j 08:49	18°M42'56	1°21'57	. ,.	2122 D 11:06 17	20 7 5 0 11 5	0050110
min. Earth dist.	-2128 May 29 j 03:59	18°1143'15 17°1119'46	29.17104 AU	conjunction minimum elong	-2122 Dec 11 j 06:17	2° 尽 58'15 2° 尽 58'15	0°50'19 0°50'17
direct evening set	-2128 Aug 17 j 07:04 -2128 Nov 12 j 16:45	17 IIC1940 19°M13'20		max. Earth dist.	-2122 Dec 11 j 06:18 -2122 Dec 11 j 17:56		31.11597 AU
evening set	-2128 NOV 12 J 10.43	19 1161320		morning rise	-2122 Dec 26 j 14:11	3° ₹ 3921	31.11397 AO
conjunction	-2128 Nov 27 j 21:13	19° M 47'37	1°14'50	retrograde	-2121 Mar 26 j 10:05	5° × ⁷ 29'45	
minimum elong	-2128 Nov 27 j 21:13	19°M47'37		opposition	-2121 Jun 15 j 04:36	4°×705'51	0°51'24
max. Earth dist.	-2128 Nov 28 j 01:46		31.16514 AU	min. Earth dist.	-2121 Jun 14 j 16:27		29.11241 AU
morning rise	-2128 Dec 13 j 02:56	20°M22'02		direct	-2121 Sep 02 j 11:39	2° ∡ ¹42'56	
retrograde	-2127 Mar 12 j 10:06	22°M18'06		evening set	-2121 Nov 28 j 09:51	4° ₰ 36'04	
opposition	-2127 May 31 j 21:59	20°M54'31	1°17'54				
min. Earth dist.	-2127 May 31 j 15:53		29.16045 AU	conjunction	-2121 Dec 13 j 16:07	5° х 10′32	
direct	-2127 Aug 19 j 18:17	19°M31'22		minimum elong	-2121 Dec 13 j 16:07	5° ≯ 10'32	
evening set	-2127 Nov 15 j 01:45	21°M24'50		max. Earth dist.	-2121 Dec 14 j 03:30		31.10811 AU
. ,.	212731 20:0624	210 m 50100	1011100	morning rise	-2121 Dec 29 j 00:32	5° ∡ 745'13	
conjunction	-2127 Nov 30 j 06:34	21°M59'09	1°11'00	retrograde	-2120 Mar 27 j 23:10	7° 🖈 42'12	0946140
minimum elong max. Earth dist.	-2127 Nov 30 j 06:35 -2127 Nov 30 j 13:16	21°M 59'09	1°10'57 31.15494 AU	opposition min. Earth dist.	-2120 Jun 16 j 17:47 -2120 Jun 16 j 05:45	6° ₹ 18'15	0°46'40 29.10416 AU
morning rise	-2127 Nov 30 j 13.10 -2127 Dec 15 j 12:29	21 1163947 22°M33'36	31.13494 AU	direct	-2120 Juli 10 j 03:43 -2120 Sep 03 j 21:52	4° ₹ 1504	29.10410 AU
retrograde	-2127 Dec 13 j 12:23	24°M29'47		evening set	-2120 Sep 03 j 21:32 -2120 Nov 29 j 19:30	6° ₹ 48'26	
opposition	-2126 Jun 03 j 11:09	23°M06'07	1°13'45	evening sec	21201101 25 1 15.50	07.1020	
min. Earth dist.	-2126 Jun 03 j 04:19		29.15069 AU	conjunction	-2120 Dec 15 j 02:14	7° ∡ ¹22'56	0°41'28
direct	-2126 Aug 22 j 06:27	21°M43'00		minimum elong	-2120 Dec 15 j 02:14	7° ∡ ¹22'56	0°41'26
evening set	-2126 Nov 17 j 11:01	23°M36'23		max. Earth dist.	-2120 Dec 15 j 15:12	7° ∡ °24'10	31.09933 AU
				morning rise	-2120 Dec 30 j 10:54	7° ∡ 757'40	
conjunction	-2126 Dec 02 j 15:58	24°M10'43	1°07'03	retrograde	-2119 Mar 30 j 11:30	9° ∡ 754'45	
minimum elong	-2126 Dec 02 j 15:59	24°M10'43		opposition	-2119 Jun 19 j 07:02	8° ≯ 30'43	0°41'52
max. Earth dist.	-2126 Dec 02 j 23:05	24°M11'23	31.14585 AU	min. Earth dist.	-2119 Jun 18 j 18:03		29.09472 AU
morning rise	-2126 Dec 17 j 22:23	24°M45'12		direct	-2119 Sep 06 j 11:26	7° ∡ 07'51	
retrograde	-2125 Mar 17 j 07:57	26°M41'30	1000120	evening set	-2119 Dec 02 j 05:16	9° ∡ 00'51	
opposition	-2125 Jun 06 j 00:03	25°M17'47			2110 D 17:12:1	00 7000	002/157
min. Earth dist.	-2125 Jun 05 j 15:25		29.14208 AU	conjunction	-2119 Dec 17 j 12:11	9°×35'24	0°36'57
direct	-2125 Aug 24 j 16:45	23°M54'41		minimum elong	-2119 Dec 17 j 12:11	9°×735'24	0°36'54
evening set	-2125 Nov 19 j 20:12	25°M48'01		max. Earth dist. morning rise	-2119 Dec 18 j 00:36 -2118 Jan 01 j 21:28	9°×'36'34 10°× 7 10'10	31.08940 AU
conjunction	-2125 Dec 05 j 01:28	26° ™ 22'22	1°03'01	retrograde	-2118 Jan 01 j 21:28 -2118 Apr 02 j 01:36	10° × °10°10 12° × ⁷ 07'20	
minimum elong	-2125 Dec 05 j 01:28	26°M22'22	1°02'58	opposition	-2118 Apr 02 j 01:30	12 x 07 20 10° x 43'14	0°37'00
max. Earth dist.	-2125 Dec 05 j 10:05		31.13763 AU	min. Earth dist.	-2118 Jun 21 j 06:43		29.08422 AU
morning rise	-2125 Dec 20 j 08:12	26°M56'54		direct	-2118 Sep 08 j 22:57	9° ₹ 20'21	
<i>U</i> -					1 - J		

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2118 in astronomical counting style is the year 2119 BCE in historical counting style. -2118 Dec 04 j 15:02 11°**∡**13′16 minimum elong -2111 Jan 01 i 11:38 25°**∡**'02'25 0°04'09 evening set behind sun begin -2111 Jan 01 j 05:18 25°**₹**'01'51 -2118 Dec 19 j 22:26 -2111 Jan 01 j 17:58 25°× 02'59 11°**₹**47'51 0°32'22 behind sun end conjunction -2111 Jan 02 j 05:54 -2118 Dec 19 j 22:26 11°**∡**¹47′51 0°32′20 max. Earth dist. 25°**尽**04'08 31.01823 AU minimum elong -2118 Dec 20 j 12:20 11°**₹**′49′09 -2111 Jan 17 j 00:09 max. Earth dist. 31.07835 AU morning rise 25°**х** 37′28 -2117 Jan 04 j 08:03 12°**х** 22′39 -2111 Apr 17 j 15:35 morning rise retrograde 27°**х** 35′20 14°**∡**19'54 -2111 Jul 07 j 15:09 retrograde -2117 Apr 04 j 12:08 opposition 26°**₹**10'44 0°01'48 opposition -2117 Jun 24 j 09:17 12°**₹**55'42 0°32'05 min. Earth dist. -2111 Jul 06 j 20:22 26°**₹**12'01 29.01503 AU min. Earth dist. -2117 Jun 23 j 19:34 12°**∡** 56'38 29.07272 AU direct -2111 Sep 24 j 03:01 24°**х** 47′52 direct -2117 Sep 11 j 11:18 11°×32'48 desc. node -2111 Nov 13 j 17:18 25°**х** 30′20 evening set -2117 Dec 07 j 00:50 13°**х** 25′39 evening set -2111 Dec 19 j 12:15 26°**х** 40′30 -2117 Dec 22 j 08:30 conjunction 14°**₹**00'14 0°27'45 conjunction -2110 Jan 03 j 22:11 27°**∡**15'18 -0°00'42 minimum elong -2117 Dec 22 j 08:30 14°**₹**00'14 0°27'42 minimum elong -2110 Jan 03 j 22:12 27°**∡**15′18 0°00'45 max. Earth dist. -2117 Dec 22 j 22:27 14°**✗**01'34 31.06675 AU behind sun begin -2110 Jan 03 j 15:47 27°**х** 14'43 morning rise -2116 Jan 06 j 18:41 14°**∡**35′05 behind sun end -2110 Jan 04 j 04:37 27°**х** 15′52 retrograde -2116 Apr 06 j 00:29 16°**∡** 32'25 max. Earth dist. -2110 Jan 04 j 18:19 27°**∡**17'12 31.01156 AU opposition -2116 Jun 25 j 22:18 15°**∡**¹08'07 0°27'07 morning rise -2110 Jan 19 j 11:03 27°**₹**50'23 min. Earth dist. -2116 Jun 25 j 07:13 15°**∡**¹09'08 29.06104 AU retrograde -2110 Apr 20 j 05:09 29°**х** 48′23 direct -2116 Sep 12 j 22:35 13°**∡** 45'11 min. Earth dist. -2110 Jul 09 j 08:18 28°**✗¹**25'07 29.00854 AU evening set -2116 Dec 08 j 10:31 15°**∡**37'57 opposition -2110 Jul 10 j 04:05 28°**х** 23′46 -0°03'19 direct -2110 Sep 26 i 15:58 27°**х** 00′57 conjunction -2116 Dec 23 j 18:32 16°**∡**12'35 0°23'05 evening set -2110 Dec 21 j 22:42 28° 🖍 53'36 minimum elong -2116 Dec 23 j 18:32 16°**∡** 12'35 0°23'03 max. Earth dist. -2116 Dec 24 j 09:44 16° **₹** 14'01 31.05509 AU conjunction -2109 Jan 06 i 08:53 29° ₹28'25 -0°05'31 -2115 Jan 08 j 05:07 -2109 Jan 06 i 08:53 29°**х** 28′25 0°05'34 morning rise 16° × 47'28 minimum elong -2115 Apr 08 j 11:36 18°**∡**¹44'54 -2109 Jan 06 j 02:41 29°**х** 27′52 retrograde behind sun begin opposition -2115 Jun 28 j 11:26 17°**∡** 20′29 -2109 Jan 06 j 15:05 0°22'06 behind sun end 29° × 28'59 -2115 Jun 27 j 20:24 17°**∡**121'31 29.04969 AU max. Earth dist. -2109 Jan 07 j 04:31 min. Earth dist. 29° ₹30'16 31.00526 AU -2115 Sep 15 j 09:21 -2109 Jan 20 j 08:01 15°**х** 57′33 0°ಕ direct -2115 Dec 10 j 20:19 -2109 Jan 21 j 22:21 17°**х** 50′15 morning rise 0°る03'33 evening set -2109 Apr 22 j 20:21 2°る01'40 retrograde -2115 Dec 26 j 04:44 -2109 Jul 12 j 16:54 18°**∡**¹24'54 0°18'24 0°る37'02 -0°08'27 conjunction opposition 0°る38'25 29.00231 AU -2115 Dec 26 j 04:44 -2109 Jul 11 j 20:41 minimum elong 18°**✓**24'54 0°18'20 min. Earth dist. -2115 Dec 26 j 20:52 -2109 Aug 05 j 00:55 max. Earth dist. 18°**≯**26'26 31.04424 AU 30°₽**⋌**7 -2114 Jan 10 j 15:45 -2109 Sep 29 j 02:52 29°**х** 14′15 morning rise 18°**∡** 59'50 direct -2109 Nov 20 j 14:14 retrograde -2114 Apr 11 j 00:15 20°**х** 57′21 0°궁 min. Earth dist. -2114 Jun 30 j 07:15 19°**✗**34′02 29.03934 AU evening set -2109 Dec 24 j 09:10 1°る06'55 opposition -2114 Jul 01 j 00:16 19°**∡**³32'52 0°17'04 direct -2114 Sep 17 j 20:24 18°**∡**09'55 conjunction -2108 Jan 08 j 19:49 1°る41'47 -0°10'17 -2114 Dec 13 j 06:14 20°**х** 02'35 -2108 Jan 08 j 19:49 1°る41'47 0°10'21 evening set minimum elong behind sun begin -2108 Jan 08 j 14:43 1°る41'19 -2114 Dec 28 j 14:56 20°**∡**¹37'16 0°13'41 behind sun end -2108 Jan 09 j 00:56 1°る42'15 conjunction -2114 Dec 28 j 14:56 20°**∡**37'16 max. Earth dist. -2108 Jan 09 j 16:49 1°る43'46 30.99878 AU minimum elong 0°13'38 -2114 Dec 28 j 11:21 20°**х** 36′57 -2108 Jan 24 j 09:37 2°る16'58 behind sun begin morning rise behind sun end -2114 Dec 28 i 18:31 20°**х** 37'36 retrograde -2108 Apr 24 i 08:08 4°る15'12 max. Earth dist. -2114 Dec 29 i 07:34 20° ₹38'50 31.03438 AU min. Earth dist. -2108 Jul 13 i 09:41 2°る51'56 28.99557 AU morning rise -2113 Jan 13 j 02:31 21°×12'14 opposition -2108 Jul 14 i 05:53 2°る50'33 -0°13'33 retrograde -2113 Apr 13 j 12:45 23°× 09'52 direct -2108 Sep 30 i 14:42 1°る27'48 -2113 Jul 03 i 13:18 21°**х** 45′19 0°12′00 -2108 Dec 25 j 19:44 3°₹20'28 opposition evening set min. Earth dist. -2113 Jul 02 j 20:22 21° 🗷 46'29 29.03014 AU -2113 Sep 20 j 06:24 20°×22'24 -2107 Jan 10 j 06:43 3°ප්55'22 -0°15'03 direct conjunction -2113 Dec 15 j 16:07 22°**х** 15′02 -2107 Jan 10 j 06:43 3°ප්55'22 0°15'05 evening set minimum elong -2107 Jan 10 j 04:20 behind sun begin 3°る55'09 conjunction -2113 Dec 31 j 01:18 22° 🗷 49'45 0°08'56 behind sun end -2107 Jan 10 j 09:05 3°る55'35 -2113 Dec 31 j 01:18 22°**х** 49'45 0°08'53 max. Earth dist. -2107 Jan 11 j 03:28 3°る57'20 30.99174 AU minimum elong behind sun begin -2113 Dec 30 j 19:45 22°**х** 49′15 morning rise -2107 Jan 25 j 21:03 4°る30'35 -2113 Dec 31 j 06:50 22° × 50'16 -2107 Apr 26 j 22:11 6°る28'55 behind sun end retrograde -2113 Dec 31 j 19:35 22°**₹**51'29 31.02578 AU -2107 Jul 16 j 18:54 5°る04'14 -0°18'39 max. Earth dist. opposition -2112 Jan 15 j 13:11 23°**∡**¹24'45 -2107 Jul 15 j 21:49 5°る05'41 28.98808 AU morning rise min. Earth dist. 3°**る**41'30 retrograde -2112 Apr 15 j 01:47 25°**х** 22′30 direct -2107 Oct 03 j 02:35 min. Earth dist. -2112 Jul 04 j 07:24 23°**尽**59'12 29.02203 AU evening set -2107 Dec 28 j 06:33 5°る34'10 opposition -2112 Jul 05 j 02:05 23°**₹**57'56 0°06'54 direct -2112 Sep 21 j 17:26 22° x 35'01 conjunction -2106 Jan 12 j 17:56 6°る09'06 -0°19'48 evening set -2112 Dec 17 j 02:14 24°×727'40 minimum elong -2106 Jan 12 j 17:56 6°る09'06 0°19'51 -2106 Jan 13 j 15:13 6°る11'06 30.98357 AU max. Earth dist. -2111 Jan 01 j 11:38 25° ₹02'25 0°04'11 -2106 Jan 28 j 08:43 6°**ප**44'21 conjunction morning rise

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2106 in astronomical counting style is the year 2107 BCE in historical counting style. -2106 Apr 29 j 10:48 8°**중**42'46 minimum elong -2099 Jan 28 i 01:43 21°る44'46 0°51'53 retrograde max. Earth dist. -2106 Jul 18 j 11:33 7°る19'26 28.97938 AU -2099 Jan 29 j 02:21 21°る47'06 30.91910 AU min. Earth dist. opposition -2106 Jul 19 j 07:52 7°る18'02 -0°23'43 -2099 Feb 12 j 19:38 22°る20'14 morning rise 5°る55'18 -2099 May 15 j 04:49 24°る19'02 direct -2106 Oct 05 j 13:53 retrograde -2106 Dec 30 j 17:24 -2099 Aug 03 j 01:14 22°る55'26 28.91662 AU evening set 7°**る**47'56 min. Earth dist. -2099 Aug 04 j 00:33 opposition 22°**る**53'49 -0°57'49 8°る22'53 -0°24'31 -2099 Oct 20 j 20:12 conjunction -2105 Jan 15 j 05:16 direct 21°**る**30'49 -2098 Jan 14 j 22:52 minimum elong -2105 Jan 15 j 05:16 8°る22'53 0°24'33 evening set 23°**る**23'24 -2105 Jan 16 j 02:44 max. Earth dist. 8°る24'55 30.97437 AU morning rise -2105 Jan 30 j 20:30 8°る58'10 conjunction -2098 Jan 30 j 13:30 23°る58'32 -0°56'11 retrograde -2105 May 01 j 23:19 10°る56'39 minimum elong -2098 Jan 30 j 13:30 23°る58'32 0°56'14 -2105 Jul 21 j 20:42 9°る31'52 -0°28'45 -2098 Jan 31 j 13:57 opposition max. Earth dist. 24°る00'50 30.91334 AU -2098 Feb 15 j 07:57 min. Earth dist. -2105 Jul 20 j 23:10 9°る33'20 28.96963 AU morning rise 24°る34'02 direct -2105 Oct 08 j 01:44 8°る09'04 retrograde -2098 May 17 j 20:03 26°る32'53 evening set -2104 Jan 02 j 04:18 10°**ට**01'41 opposition -2098 Aug 06 j 12:55 25°る07'40 -1°02'24 min. Earth dist. -2098 Aug 05 j 12:45 25°る09'20 28.91134 AU conjunction -2104 Jan 17 j 16:26 10°る36'39 -0°29'12 direct -2098 Oct 23 j 08:01 23°る44'40 minimum elong -2104 Jan 17 j 16:26 10°る36'39 0°29'16 evening set -2097 Jan 17 j 10:24 25°る37'17 max. Earth dist. -2104 Jan 18 j 13:44 10°る38'40 30.96413 AU morning rise -2104 Feb 02 j 08:12 11°る11'59 conjunction -2097 Feb 02 j 01:26 26°る12'28 -1°00'26 retrograde -2104 May 03 j 10:52 13°る10'31 minimum elong -2097 Feb 02 j 01:26 26°る12'28 1°00'28 opposition -2104 Jul 23 i 09:36 11°る45'38 -0°33'45 max. Earth dist. -2097 Feb 03 i 02:31 26°る14'50 30.90825 AU min. Earth dist. -2104 Jul 22 j 12:47 11°る47'04 28.95922 AU morning rise -2097 Feb 17 i 20:18 26°₹48'00 direct -2104 Oct 09 i 11:58 10°る22'47 retrograde -2097 May 20 i 09:06 28°る46'56 evening set -2103 Jan 03 j 15:09 12°る15'21 min. Earth dist. -2097 Aug 08 j 02:03 27°る23'20 28.90655 AU -2097 Aug 09 j 01:27 27°る21'43 -1°06'54 opposition -2103 Jan 19 j 03:50 12°る50'22 -0°33'51 -2097 Oct 25 j 19:15 25°る58'44 conjunction direct -2103 Jan 19 j 03:50 12°る50'22 0°33'53 evening set -2096 Jan 19 j 21:57 27°る51'24 minimum elong -2103 Jan 20 j 02:22 12°る52'29 30.95369 AU max. Earth dist. -2103 Feb 03 j 19:56 13°る25'42 -2096 Feb 04 j 13:25 28°る26'36 -1°04'36 morning rise conjunction 15°**る**24'17 -2103 May 05 j 23:24 -2096 Feb 04 j 13:25 minimum elong 28°る26'36 1°04'39 retrograde 13°る59'19 -0°38'41 -2103 Jul 25 j 22:17 -2096 Feb 05 j 14:45 28°る29'00 30.90359 AU max. Earth dist. opposition 14°る00'50 28.94887 AU min. Earth dist. -2103 Jul 25 j 00:10 -2096 Feb 20 j 08:39 29°る02'10 morning rise -2103 Oct 11 j 23:10 12°**る**36'25 -2096 Mar 19 j 18:08 direct 0°≈ 1°**≈**01'11 -2102 Jan 06 j 02:10 14°**る**28'57 -2096 May 21 j 22:38 evening set retrograde -2096 Jul 26 j 22:53 30°Rる -2102 Jan 21 j 15:06 15°る03'59 -0°38'26 -2096 Aug 10 j 13:53 29°る35'59 -1°11'18 conjunction opposition minimum elong -2102 Jan 21 j 15:06 15°る03'59 0°38'30 min. Earth dist. -2096 Aug 09 j 13:26 29°る37'41 28.90187 AU max. Earth dist. -2102 Jan 22 j 13:14 15°る06'04 30.94354 AU direct -2096 Oct 27 j 06:57 28°る13'00 morning rise -2102 Feb 06 j 07:50 15°る39'22 -2095 Jan 18 j 19:09 0°≈ retrograde -2102 May 08 j 12:52 17°る38'00 evening set -2095 Jan 21 j 09:53 0°≈05'44 -2102 Jul 28 j 11:01 16°る12'55 -0°43'34 opposition min. Earth dist. -2102 Jul 27 j 13:12 16°る14'26 28.93919 AU -2095 Feb 06 j 01:39 0°≈40'58 -1°08'40 conjunction -2102 Oct 14 j 09:23 14°る49'58 -2095 Feb 06 j 01:38 0°≈40'58 1°08'42 direct minimum elong -2101 Jan 08 j 13:12 16°る42'30 max. Earth dist. -2095 Feb 07 j 02:30 0°≈43'19 30.89864 AU evening set morning rise -2095 Feb 21 i 21:23 1°≈16'34 -2101 Jan 24 i 02:42 17°る17'34 -0°42'58 conjunction retrograde -2095 May 24 j 11:13 3°≈15'39 -2101 Jan 24 i 02:41 minimum elong 17°る17'34 0°43'00 min. Earth dist. -2095 Aug 12 j 03:08 1°≈52'04 28.89676 AU -2101 Jan 25 i 02:23 17°る19'48 30.93421 AU max. Earth dist. opposition -2095 Aug 13 j 02:26 1°≈50'27 -1°15'36 -2101 Feb 08 i 19:41 17°る52'58 direct -2095 Oct 29 j 16:56 0°≈27'29 morning rise -2101 May 11 i 01:42 19°る51'38 evening set -2094 Jan 23 j 21:49 2°≈20'16 retrograde -2101 Jul 30 j 23:24 18° ට 26'30 -0°48'23 opposition -2101 Jul 30 j 00:44 18°る28'04 28.93041 AU conjunction -2094 Feb 08 j 14:10 2°≈55'31 -1°12'38 min. Earth dist. direct -2101 Oct 16 j 21:53 17°る03'31 minimum elong -2094 Feb 08 i 14:10 2°≈55'31 1°12'41 evening set -2100 Jan 11 j 00:26 18°る56'03 max. Earth dist. -2094 Feb 09 j 15:36 2°≈57'55 30.89308 AU morning rise -2094 Feb 24 j 10:12 3°≈31'09 conjunction -2100 Jan 26 j 14:10 19°る31'08 -0°47'27 retrograde -2094 May 27 j 00:38 5°≈30'17 -2100 Jan 26 j 14:10 19°る31'08 0°47'30 -2094 Aug 15 j 14:50 4°≈05'04 -1°19'47 minimum elong opposition -2100 Jan 27 j 13:19 19°る33'19 30.92605 AU -2094 Aug 14 j 14:51 4°≈06'44 28.89066 AU max. Earth dist. min. Earth dist. -2100 Feb 11 j 07:45 20°**る**06'34 -2094 Nov 01 j 04:09 morning rise direct 2°≈42'04 -2100 May 12 j 16:22 22°る05'18 -2093 Jan 26 j 10:06 retrograde evening set 4°≈34'55 opposition -2100 Aug 01 j 11:59 20°る40'07 -0°53'08 min. Earth dist. -2100 Jul 31 j 12:49 20°る41'43 28.92297 AU conjunction -2093 Feb 11 j 02:40 5°≈10'11 -1°16'29 direct -2100 Oct 18 j 08:23 19°**る**17'06 minimum elong -2093 Feb 11 j 02:40 5°≈10'11 1°16'31 evening set -2099 Jan 12 j 11:28 21°る09'40 max. Earth dist. -2093 Feb 12 j 02:52 5°≈12'28 30.88637 AU -2093 Feb 26 j 23:16 morning rise 5°≈45'51 -2099 Jan 28 j 01:43 21°₹44'46 -0°51'51 -2093 May 29 j 13:45 7°≈45'01 conjunction retrograde

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2093 in astronomical counting style is the year 2094 BCE in historical counting style. -2093 Aug 17 j 04:18 6°≈21'22 28.88355 AU conjunction -2086 Feb 26 i 19:37 20°≈52'18 -1°39'56 min. Earth dist. -2093 Aug 18 j 03:13 6°≈19'46 -1°23'50 minimum elong -2086 Feb 26 j 19:37 20°≈52'18 1°39'58 opposition -2093 Nov 03 j 14:23 4°≈56'44 -2086 Feb 27 j 20:11 20°≈54'37 30.84112 AU direct max. Earth dist. -2092 Jan 28 j 22:11 6°≈49'36 -2086 Mar 14 j 18:58 21°≈28'07 evening set morning rise -2086 Jun 14 j 12:18 retrograde 23°≈27'15 7°≈24'54 -1°20'14 -2092 Feb 13 j 15:20 -2086 Sep 02 j 15:30 conjunction opposition 22°≈01'45 -1°48'24 -2092 Feb 13 j 15:20 -2086 Sep 01 j 16:56 minimum elong 7°≈24'54 1°20'16 min. Earth dist. 22°≈03'20 28.84126 AU max. Earth dist. -2092 Feb 14 j 16:25 7°≈27'16 30.87877 AU direct -2086 Nov 19 j 00:30 20°≈38'21 -2085 Feb 13 j 12:41 morning rise -2092 Feb 29 j 12:11 8°≈00'34 evening set 22°≈31'28 retrograde -2092 May 31 j 02:22 9°≈59'45 opposition -2092 Aug 19 j 15:31 8°≈34'28 -1°27'47 conjunction -2085 Mar 01 j 08:44 23°≈06'57 -1°42'43 -2092 Aug 18 j 16:20 -2085 Mar 01 j 08:43 min. Earth dist. 8°≈36'05 28.87559 AU minimum elong 23°**≈**06′57 1°42'44 -2092 Nov 05 j 02:48 -2085 Mar 02 j 09:58 direct 7°≈11'22 max. Earth dist. 23°≈09'20 30.83922 AU evening set -2091 Jan 30 j 10:20 9°≈04'15 morning rise -2085 Mar 17 j 08:17 23°≈42'46 retrograde -2085 Jun 17 j 01:45 25°≈41'54 conjunction -2091 Feb 15 j 03:46 9°≈39'35 -1°23'51 min. Earth dist. -2085 Sep 04 j 03:46 24°≈18′05 28.83988 AU minimum elong -2091 Feb 15 j 03:46 9°**≈**39'35 1°23'53 opposition -2085 Sep 05 j 03:07 24°≈16'26 -1°51'17 max. Earth dist. -2091 Feb 16 j 03:41 9°≈41'50 30.87068 AU direct -2085 Nov 21 j 12:04 22°≈53'01 morning rise -2091 Mar 03 j 01:12 10°≈15'16 evening set -2084 Feb 16 j 01:31 24°≈46'13 retrograde -2091 Jun 02 j 16:39 12°≈14'28 min. Earth dist. -2091 Aug 21 j 04:49 10°≈50'43 28.86756 AU conjunction -2084 Mar 02 j 21:47 25°≈21'43 -1°45'20 opposition -2091 Aug 22 j 03:47 10°≈49'07 -1°31'35 minimum elong -2084 Mar 02 i 21:47 25°≈21'43 1°45'22 direct -2091 Nov 07 j 13:19 9°≈25'56 max. Earth dist. -2084 Mar 03 j 22:01 25°≈24'00 30.83826 AU evening set -2090 Feb 01 j 22:34 11°≈18'50 morning rise -2084 Mar 18 i 21:52 25°≈57'34 retrograde -2084 Jun 18 j 14:01 27°≈56'42 -2090 Feb 17 j 16:32 11°≈54'12 -1°27'20 -2084 Sep 06 j 14:59 26°≈31'16 -1°54'00 conjunction opposition -2090 Feb 17 j 16:32 -2084 Sep 05 j 16:40 26°≈32'50 28.83936 AU 11° \$\infty 54'12 1° 27'23 min. Earth dist. minimum elong -2090 Feb 18 j 17:23 -2084 Nov 22 j 21:59 max. Earth dist. 11°≈56'32 30.86263 AU direct 25°≈07'50 -2090 Mar 05 j 14:15 -2083 Feb 17 j 14:18 27°≈01'07 12°≈29'55 evening set morning rise -2090 Jun 05 j 05:11 14°≈29'05 retrograde -2090 Aug 24 j 15:45 -2083 Mar 05 j 11:10 13°≈03'41 -1°35'14 conjunction 27°≈36'38 -1°47'48 opposition -2090 Aug 23 j 17:06 -2083 Mar 05 j 11:09 min. Earth dist. 13°≈05'16 28.85983 AU minimum elong 27°≈36'38 1°47'49 -2090 Nov 10 j 01:21 11°≈40'26 max. Earth dist. -2083 Mar 06 j 12:11 27°≈38'59 30.83784 AU direct -2089 Feb 04 j 10:55 13°≈33'22 -2083 Mar 21 j 11:26 28°≈12'30 evening set morning rise -2083 May 25 j 10:18 0°**)**€ -2089 Feb 20 j 05:14 14°≈08'45 -1°30'42 -2083 Jun 21 j 02:12 0°**)** 11′38 conjunction retrograde -2089 Feb 20 j 05:14 -2083 Jul 18 j 02:52 minimum elong 14°≈08'45 1°30'43 30°R≈ max. Earth dist. -2089 Feb 21 j 05:28 14°≈11'02 30.85534 AU min. Earth dist. -2083 Sep 08 j 04:26 28°≈47'48 28.83890 AU morning rise -2089 Mar 08 j 03:25 14°≈44'29 opposition -2083 Sep 09 j 02:42 28°≈46'14 -1°56'33 -2089 Mar 15 j 06:56 15°**≈** direct -2083 Nov 25 j 09:34 27°≈22'48 retrograde -2089 Jun 07 j 20:42 16°≈43'38 -2082 Feb 20 j 03:33 29°≈16'09 evening set -2089 Aug 26 j 04:29 15°≈19'49 28.85314 AU min. Earth dist. -2089 Aug 27 j 03:44 15°≈18'11 -1°38'45 -2082 Mar 08 j 00:40 29°≈51'41 -1°50'06 opposition conjunction -2089 Sep 07 j 01:34 -2082 Mar 08 j 00:40 29°≈51'41 1°50'07 15°R≈ minimum elong direct -2089 Nov 12 j 14:03 13°≈54'52 max. Earth dist. -2082 Mar 08 j 23:59 29°≈53'53 30.83722 AU -2088 Jan 14 j 19:10 15°≈ -2082 Mar 11 j 17:02 0°) -2088 Feb 06 i 23:10 evening set 15°≈47'51 morning rise -2082 Mar 24 i 01:27 0° **\(**27'34 retrograde -2082 Jun 23 j 16:31 2°\ 26'41 -2088 Feb 22 i 17:52 conjunction 16°≈23'15 -1°33'55 opposition -2082 Sep 11 j 14:23 1°\(\mathbf{H}\)01'18 -1°58'55 -2088 Feb 22 i 17:52 16°≈23'15 1°33'57 min. Earth dist. -2082 Sep 10 j 16:52 1°\mathbf{H}02'49 28.83809 AU minimum elong max. Earth dist. -2088 Feb 23 j 18:41 16°≈25'35 30.84909 AU -2082 Oct 22 j 06:35 30°R≈ -2088 Mar 09 j 16:22 16°≈59'01 -2082 Nov 27 j 19:24 29°≈37'50 morning rise direct -2088 Jun 09 j 09:06 -2081 Jan 02 j 19:05 0°\ retrograde 18°≈58'10 opposition -2088 Aug 28 j 15:46 17°≈32'40 -1°42'07 evening set -2081 Feb 22 j 16:47 1°#31'16 17°≈34'15 28.84767 AU min. Earth dist. -2088 Aug 27 j 17:15 -2088 Nov 14 j 01:51 16°≈09'19 conjunction -2081 Mar 10 j 14:26 2°\cdot\(06'49\)\ -1°52'14 direct -2087 Feb 08 j 11:32 2°**₭**06'49 1°52'15 18°≈02'20 minimum elong -2081 Mar 10 j 14:26 evening set -2081 Mar 11 j 14:00 2°¥09'02 30.83590 AU max. Earth dist. -2087 Feb 24 j 06:43 18°≈37'45 -1°37'00 -2081 Mar 26 j 15:25 2° **\(**42'43 conjunction morning rise -2087 Feb 24 j 06:43 -2081 Jun 26 j 04:45 4°**)**41'48 minimum elong 18°**≈**37'45 1°37'01 retrograde -2081 Sep 13 j 05:28 3°**升**17'53 28.83634 AU max. Earth dist. -2087 Feb 25 j 07:39 18°**≈**40′06 30.84441 AU min. Earth dist. morning rise -2087 Mar 12 j 05:35 19°≈13'32 opposition -2081 Sep 14 j 02:09 3°**¥**16'26 -2°01'07 retrograde -2087 Jun 11 j 23:07 21°≈12'41 direct -2081 Nov 30 j 07:34 1°**¥**52'55 min. Earth dist. -2087 Aug 30 j 03:59 19°≈48'50 28.84378 AU evening set -2080 Feb 25 j 05:58 3°**)** 46'23 opposition -2087 Aug 31 j 03:33 19°≈47'11 -1°45'20 -2087 Nov 16 j 13:55 18°≈23'47 -2080 Mar 12 j 03:58 4°**升**21'58 -1°54'12 direct conjunction -2086 Feb 11 j 00:07 20°≈16'51 -2080 Mar 12 j 03:58 4°**¥**21'58 1°54'13 evening set minimum elong

Machanisan Samura	Planetary Pheno	omena of Neptune f	from -2400	through -1898	(UT), Astrodien	st AG 18-Feb-2025	14:23,	page 26
	Attention, astronom	nical year style is used: Th	e year -2080 ir	n astronomical cou	inting style is the year	r 2081 BCE in historical of	ounting style.	
corognation -2000 May 27 j 1930 ey8/55651 j 2-90070 morn Earth dist -2000 Seep 15 j 1713 5453735 2-83378 M erroring the expension -2007 Jay 1 j 14123 2294144 -2000 Seep 15 j 1713 5453735 2-83388 M erroring see -2007 Peb 26 j 1919 erroring seep 1 s 1713 5453735 2-83388 M erroring seep 2 s 2007 Apr 1 j 14123 22941474 2214147 2214147 2214147 2214147 2214147 2214147 2214147 2214147 2214147 2214147 221417	max. Earth dist.	-2080 Mar 13 j 02:07	4°) 24′03	30.83380 AU	conjunction	-2073 Mar 29 j 04:42	20°) €06'14	-2°02'58
opposition - 2008 Sp. 15 11.50 5943331 207007 continuing time - 2073 Apr 1 61.625 2074 Carl 224 (274 carl 224 carl	morning rise	-2080 Mar 28 j 05:23	4° ¥ 57'53		minimum elong	-2073 Mar 29 j 04:42	20°) €06'14	2°02'58
min radioal 2980 Sep. 14 j. 1731 SPEZ Sep. 28.8189 AI congoanies 2073 Vol. 1912-38 21-H122 Certain set 2079 Feb. 26 j. 1919 6**CH072 congoanies 2073 Cot. 1912-38 21-H126 Certain set 21-H127 Certain set 21-H126 Certain set 21-H126 Certain set 21-H127 Certain set	retrograde	-2080 Jun 27 j 19:39	6° ¥ 56'54		max. Earth dist.	-2073 Mar 29 j 23:32	20°) €08'00	30.82684 AU
direct -0800 Eco 2 j 2005 6*/40750 oponision -0273 Cot 2019-038 21*/11/20 </td <td>opposition</td> <td>-2080 Sep 15 j 13:50</td> <td>5°∺31'31</td> <td>-2°03'07</td> <td>morning rise</td> <td>-2073 Apr 14 j 08:25</td> <td>20°) 42′14</td> <td></td>	opposition	-2080 Sep 15 j 13:50	5° ∺ 31'31	-2°03'07	morning rise	-2073 Apr 14 j 08:25	20°) 42′14	
Part	min. Earth dist.	-2080 Sep 14 j 17:13	5°) 32′58	28.83389 AU	retrograde	-2073 Jul 14 j 14:23	22°) 40′44	
Composition	direct	-2080 Dec 01 j 20:05	4° ₩ 07'56		opposition	-2073 Oct 01 j 20:58	21° ∺ 15′26	-2°11'47
copination 2079 Mar 1 5 1/745 6*Y87704 1*5501 eventure set 2072 Mar 1 5 1/155 C*1*2*** 1*5501 max Earth dist 2079 Mar 15 1/154 6*Y8704 1*501 0590 Mar 15 1/154 6*Y8704 1*501 0790 Mar 30 1/154 2072 Mar 30 1/154 <td< td=""><td>evening set</td><td>-2079 Feb 26 j 19:19</td><td>6°∺01'27</td><td></td><td>min. Earth dist.</td><td>-2073 Oct 01 j 03:38</td><td>21°) 16′40</td><td>28.83017 AU</td></td<>	evening set	-2079 Feb 26 j 19:19	6° ∺ 01'27		min. Earth dist.	-2073 Oct 01 j 03:38	21°) 16′40	28.83017 AU
miniman clorg 2079 Mar 1 17-50					direct	-2073 Dec 18 j 03:42	19° 米 51'31	
max. Earth dist. 2079 Mar. 15 15-47 or (*)430*8 0.830*8 Al. conquantion -0072 Mar. 30 1838 22*24113 200259 crograde 2079 Mar. 30 10746 9*H1156 minimum elong minimum elong minimum elong morning rate -0072 Mar. 30 1845 22*0238 0.83062 AU minimum elong morning rate -0072 Mar. 30 1845 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.83062 AU morning rate -0072 Mar. 31 1465 22*0238 0.82462 AU conjunction -0071 Mar. 17 10*02 0.846 22*0238 0.90000000000000000000000000000000000	conjunction	-2079 Mar 14 j 17:45	6°) €37'04	-1°56'00	evening set	-2072 Mar 14 j 17:16	21°) 45′28	
morning rise 2079 Mar 30 1920 7*H1259 minimum clong 2072 Mar 30 1838 22*H2113 20*200 min. Earth dist. 2079 Mar 30 1920 7*H1259 38.3005 AU morning rise 2072 Apr 15 2223 22*H5714 20*200 20*3005 AU 20*40	minimum elong	-2079 Mar 14 j 17:45	6°) €37'04	1°56'01				
cropaged 2079 Jun 19 (10746) 9*H1156 max Farh dist. 2072 Nar 1 (1) (142) 22*Q2303 30.83062 AU mine Farth dist. 2070 Sep 11 (10615) **1*4783 28.800 AU recognate 2072 Au 1 (1) (1060) 20*Q1 Dec 04 (10788) 2*1*214 conguent 2072 Au 1 (1) (1060) 2*1*214 conguent 2072 Au 1 (1) (1071) 2*1*214 conguent conguent 2071 Au 1 (1) (1071) 2*1*318 2*8*317 AU conguent conguent 2071 Au 1 (1) (1071) 2*1*214 conguent conguent 2071 Au 1 (1) (1071) 2*1*22 conguent conguent 2071 Au 1 (1) (1071) 2*1*22 conguent 2071 Au 1 (1) (1071) 2*1*22 conguent 2071 Au 1 (1) (1071) 2*1*22 conguent 2071 Au 1 (1) (1071) 2*1*24		•		30.83098 AU				
nin Farth dist. 2079 Sep 17 [6/15] 2**P4573. 388095 AU morning rise 2072 Apr 15 [3224] 22%5714 2**P45764 2**P45764 2**P45764 2**P45764 2**P45764 2**P45764 2**P45764 2**P45764 2**P45764 2**P45784 2**P45784 <th< td=""><td>morning rise</td><td>-2079 Mar 30 j 19:29</td><td></td><td></td><td></td><td>-</td><td></td><td></td></th<>	morning rise	-2079 Mar 30 j 19:29				-		
opposition of leading to 2,079 Sep 18 01-24 78-4652 29-0456 opposition of leading to 2,079 Dec 04 07-58 of 142-2 opening set 2,079 Dec 04 07-58 opposition	•	•						30.83062 AU
drect -2079 Nac 04 j 07-88 (*) 47-88 (*) 42-82 (*) 40-8					Č			
evening set 2-078 Mar 01/0840 8°H1626 minimarth dist 2-0772 Oct 00 1/1531 23°H3178 28.83437 AU conjunction 2-078 Mar 17/0735 8°H5204 1-95737 evening set -2071 Mar 17/0706 2°H0632 minimum dong 2-078 Mar 17/0735 8°H5204 1-95738 conjunction -2071 Mar 17/0706 2°H0632 morning rise 2-078 Apr 02/0949 9°H2300 minimum dong 2-071 Apr 02/0846 24°H3622 2°0948 opposition 2-078 Sep 20/1248 10°H2012 20°84 max.Earth dist 2-071 Apr 03/0846 24°H3802 30.8328 AU direct 2-078 Sep 20/1248 10°H012 20°044 retoraged 2-071 Apr 18/1304 25°H223 25°H223 devening set 2-078 Mar 19/1211 10°H058 18°930 eretoraged 2-071 Apr 18/1304 25°H4588 21°228 ceonjunction 2-077 Mar 19/1211 11°H0678 18°S943 20°H260 2-071 Apr 18/1304 25°H4588 21°228 conjunction 2-077 Mar 19/1211 11°H0678 18°S943 20°H260 <td< td=""><td>• •</td><td></td><td></td><td>-2°04'56</td><td>-</td><td></td><td></td><td></td></td<>	• •			-2°04'56	-			
conjunction 2078 Mar 17, j07.35 8°H5204 1°57378 evening set 2071 Mar 17, j07.06 24°H0035 max. Earth dist. 2078 Mar 18, j04.56 8°H5204 1°5738 conjunction 2071 Apr 02, j08.46 24°H3622 2°20347 max. Earth dist. 2078 Mar 18, j04.56 8°H5204 1°5738 conjunction 2071 Apr 02, j08.46 24°H3622 2°20348 morning rise 2078 Jul 02, j22.24 11°H26622 max. Earth dist. 2071 Apr 03, j02.44 24°H3622 2°20348 min. Earth dist. 2078 Sep 19, j17.12 10°H2072 2°0634 morning rise 2071 Apr 10, j18, j15.55 27°H1046 dicted 2077 Mar 03, j22.04 10°H3119 morning rise 2071 Oct 05, j1908 25°H4238 2°1228 conjunction 2077 Mar 03, j22.04 10°H3119 minimum closs 2077 Mar 19, j21.16 11°H0658 1°5904 minimum closs 2077 Mar 19, j21.16 11°H0658 1°5904 11°H0658 1°5904 20°H0149 1°21.10 26°H5140 2°0955 minimum closs 2077 Apr 04, j23.43 11°H2668 1°594 11°S2 11°M268 1°594 220°D Apr 04, j23.43 21°H2678 220°D Apr 04, j23.43 220°D Apr 04, j23.43		-				-		
conjunction 2078 Mar 17 j07:35 8°M5204 1°5737 evening set 2071 Mar 17 j07:06 22°W037 max. Earth dist 2078 Mar 18 j10/35 8°M5204 1°5738 conjunction 2071 Apr 02 j08:46 24°W3622 2°09347 morning rise 2078 May 02 j09-40 9°M2000 minimum elong 2071 Apr 02 j08:46 24°W36022 2°09348 copposition 2078 Sep 20 j12-48 10°W0127 2°0634 max. Earth dist 2071 Apr 18 j13:04 25°W1223 direct 2078 Mar 03 j2204 10°W3719 creogned 2070 Lot 15 j10:08 25°W1223 cevening set 2077 Mar 03 j2204 10°W3719 creogned 2070 Lot 15 j10:08 25°W1238 cevening set 2077 Mar 03 j2204 10°W0853 15°9003 cevening set 2070 Lot 15 j10:03 25°W4588 28°W1248 cevening set 2077 Mar 03 j21:16 11°W0685 15°9003 cevening set 2070 Mar 19 j21:03 25°W4588 28°W2590 cevening set 2077 Mar 19 j3:11 11°W06854 30.82542 AU conjunction 2070 Apr 04 j3:10 25°W5184 22°W1585 minimamulong	evening set	-2078 Mar 01 j 08:40	8° 升 16′26					28.83437 AU
minimum elong 2078 Mar 15 J0735 8°H5204 15738 conjunction -2071 Apr 02 J0846 24°H3622 2°034 Mr max. Earth dist. -2078 Mar 16 J0456 8°H5204 30.82810 AU conjunction -2071 Apr 02 J0846 24°H3622 2°0348 netrograde -2078 Mar 02 J0249 1°H26052 max. Earth dist. -2071 Apr 03 J0241 24°H3622 2°0348 nm. Earth dist. -2078 Sep 19 J17-12 1°H007952 28.82816 AU entergrade -2071 Ing 13 J155 27°H1046 direct -2078 Dec 05,050 8°H3742 0°H3119 morning rise -2077 Mar 19 J21-16 1°H0658 1°S904 -2071 Dec 22 J03155 25°H4618 28.83921 AU econjunction -2077 Mar 19 J21-16 1°H0658 1°S904 -0000 Mar 19 J21-10 26°H5182 25°H4518 22°1258 25°H4618 28.83921 AU econjunction -2077 Mar 19 J21-13 1°H0658 1°S904 -0000 Mar 19 J21-10 26°H5140 2°0755 25°H4518 2°17514 2°0755 25°H4518 2°17514 2°0755 25°H4519 2°17514 2°0755 </td <td></td> <td></td> <td>>/</td> <td></td> <td></td> <td>•</td> <td></td> <td></td>			>/			•		
nax. Earth dist. 9.028 Mar 18 j 01.65 8°H.5400 9°H.2800 conjunction -2071 Apr 02 j 09.40 42°H.3602 2°078 Mar 18 j 01.65 2°078 Apr 02 j 09.40 9°H.2800 9°H.2800 minimum clong 2071 Apr 02 j 09.45 24°H.3602 208 3528 AU opposition -2078 Sep 20 j 12.48 10°H.02702 22°034 mms. Earth dist. -2071 Apr 18 j 1304 24°H.3802 298 3528 AU direct -2078 Dec 66 j 20.50 8°H.3742 coposition -2071 Oct 05 j 19.08 5°H.4648 28.8321 AU evening set -2077 Mar 03 j 22.04 10°H.965 1°S903 cenime facth dist. -2071 Oct 05 j 19.08 5°H.4648 28.8321 AU conjunction -2077 Mar 19 j 21:16 11°H.9668 1°S903 cenime set -2070 Mar 19 j 21:03 2°H.1522 2°9355 minimum clong -2077 Mar 19 j 21:16 11°H.9685 1°S903 cenime clong -2070 Apr 04 j 123:10 2°H.1522 2°9355 recognade -2077 Jul 05 j 11:30 13°H.4142 5°903 cenime clong -2070 Apr 05 j 16:50 6°H.5140 2°9355 12°H.2452 2°901 <td></td> <td>-</td> <td></td> <td></td> <td>evening set</td> <td>-2071 Mar 17 j 07:06</td> <td>24°∺00'35</td> <td></td>		-			evening set	-2071 Mar 17 j 07:06	24° ∺ 00'35	
moming rise	2	•					- 10 V - 11-0	
Part		-		30.82810 AU	•			
opposition -2078 Sep 20 ji 1248 09-W1275 290634 moming rise -2071 Apr 18 ji 13-04 25°H 123 nin. Earth dist. -2078 Sep 19 ji 7:12 19°H 0250 28.82816 AU retrograde -2071 Oct 05 ji 0245 25°H 4278 2-1228 evening set -2077 Mar 03 ji 224 19°H 3179 min. Earth dist. -2071 Oct 05 ji 0245 25°H 4478 2-88391 AU conjunction -2077 Mar 19 ji 21:16 11°H 6658 1°5904 cening set -2070 Mar 19 ji 21:03 26°H 15'52 24°H 12'52 eximinum elong -2077 Mar 19 ji 21:16 11°H 6658 1°5904 conjunction -2070 Apr 04j 23:10 26°H 51'40 29°0355 max. Earth dist. -2077 Apr 04j 23:34 11°H 4255 minimum elong -2070 Apr 04j 23:10 26°H 51'40 29°0355 erctograde -2077 Apr 04j 23:34 11°H 4255 minimum elong -2070 Apr 04j 23:10 26°H 51'40 29°0355 erctograde -2077 Apr 04j 23:34 13°H 44'42 minimum elong -2070 Apr 04j 23:10 26°H 51'40 29°0355 erctograde -2077 Apr 04j 23:11 34	-				2			
min Earth dist. 2.078 Sep 19 j 1/12 0*H0250 28 82816 AU retrograde 2.071 Not 05 j 1908 2°P*H4788 2*1228 direct 2.077 Mar 03 j 2204 10*H3719 opposition 2.071 Oct 05 j 1908 2°P*H4788 2*1228 conjunction 2.077 Mar 19 j 21:10 11*H0658 1*5903 evening set 2.070 Mar 19 j 21:0 26*H1523 2*H4648 2.83891 AU max. Earth dist. 2.077 Mar 19 j 21:10 11*H0658 1*5904 conjunction 2.070 Apr 04 j 23:11 26*K15140 2*0355 max. Earth dist. 2.077 Apr 04 j 23:11 11*H0858 3.08.2542 AU conjunction 2.070 Apr 04 j 23:10 26*K5140 2*0355 retrograde 2.077 Mar 10 j 12:10 13*H442 conjunction 2.070 Apr 04 j 23:10 26*K5191 2*0355 retrograde 2.077 Mar 05 j 16:21 13*H442 2.08001 morning rise 2.070 Apr 04 j 23:10 26*K51940 20*355 retrograde 2.077 Mar 05 j 16:21 15*H24677 2*0801 min marth dist 2.070 Apr 04 j 23:10 2*1440 2*0755 2*1230 <	-	3						30.83528 AU
direct 2.078 Dec (6 j.20.5) 8*H3742 opposition 2.071 Oct 105 j.10.85 25*H4838 2*12'28 evening set -2077 Mar 19 j.21:16 11*H0658 1*5903 evening set -2071 Oct 105 j.02:15 2*H2142 conjunction -2077 Mar 19 j.21:16 11*H0658 1*5904 evening set -2070 Mar 19 j.21:10 2*F*H2142 minimum clong -2077 Mar 20 j.17:53 11*H0658 1*5904 conjunction -2070 Apr 04 j.23:10 2*F*H1740 2*03755 morning rise -2077 Apr 04 j.23:34 11*H0558 18*S842 AU conjunction -2070 Apr 04 j.23:10 2*6*H5140 -203555 morning rise -2077 Apr 04 j.23:34 11*H4255 max. Earth dist. -2070 Apr 04 j.23:10 2*6*H5140 2*93555 retorgand -2077 Apr 04 j.23:34 11*H4255 max. Earth dist. -2070 Apr 04 j.23:30 2*H42724 covering set -2075 Mar 19 j.10:10 15*H3442 2*08001 experiment dist. -2070 Apr 04 j.23:10 2*8*H0787 2*9*1270 conjunction -2075 Mar 19 j.10:10 15*H34697 -2*0019					-			
Powering set				28.82816 AU	-	-		
Conjunction		-						
Conjunction CO77 Mar J J 1:16 1 1 1 1 1 1 1 1 1	evening set	-2077 Mar 03 j 22:04	10° 大 31'19					28.83921 AU
minimum elong -2077 Mar 19 j 21:16 11°K06'S8 15°90'A max. Earth dist. -2077 Mar 20 j 1;233 11°K08'S4 30.8254 2M conjunction -2070 Apr 04 j 23:40 26°K5'140 2003'S5 retorgade -2077 Mar 0 j 1;131 11°K42'S5 max. Earth dist. -2070 Apr 04 j 23:41 26°K5'140 2003'S5 opposition -2077 Sep 23 j 00:12 12°K16'16 2208'S01 retrograde -2070 Oct 07, j 5:05 28°K05'7 29°R26'00 direct -2077 Sep 23 j 00:12 12°K16'16 2208'01 retrograde -2070 Oct 07, j 15:00 28°K00'75 22°12'30 evening set -2076 Mar 05 j 11:22 12°K16'16 20'80'11 20'90 Oct 07, j 15:00 28°K00'75 22°12'30 conjunction -2076 Mar 21 j 11:01 13°K21'47 22'0019 minimum elong -200'Mar 22 j 11:02 28°K01'73 28°K31'8 minimum elong -2076 Apr 06 j 13:45 13°K21'47 22'0019 minimum elong -2069 Apr 07 j 13:29 29°K07'04 22'03'S1 morning rise -2076 Apr 06 j 13:45 13°K21'47 22'019 max		2077.14 10:21.16	110 100	1050102		-		
max. Earth dist. -2077 Mar 20 j 17:53 11° MoS*54 30.82542 AU conjunction -2070 Apr 04 j 23:10 26° M 51'40 2°03'55 20°3'55		·			evening set	-20/0 Mar 19 J 21:03	26° Tt 15'52	
moming rise -2077 Apr 04 j 23:43 11° 42'55 minimum elong -2070 Apr 04 j 23:10 26° 15'14 2070 Spr 26° 15'19 30 s4001 AU minimim earth dist -2070 Apr 05 j 150'5 26° 15'19 30 s4001 AU minimim Earth dist -2070 Apr 05 j 150'5 26° 15'19 30 s4001 AU Author 15'11'2 26° 15'19 30 s4001 AU Author 15'11'2 26° 15'19 30 s4001 AU Author 15'11'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'19'10'2 26° 15'10'2 <	_	•			:	2070 A 04:22.10	269W 51140	2902155
Retngrade -2077 Jul 0.5 j 11.30 1.3°4.4142 max. Earth dist. -2070 Apr 0.5 j 1.6% 26°4.531 3.0.84001 AU min. Earth dist. -2077 Apr 2.j 0.318 2.°4.1741		-		30.82342 AU				
min. Earth dist. -2077 Sep 2j 00:12 12*H16'lb - 2°08'01 morning rise -2070 Apr 2 j 10:338 27*H274'z - 2°00'00'00'10' 21'p4'.00' 27*H274'z - 2°00'00'00' 20'p4'.00' 2070 Cot 00'p4' 21'p1'.00' 29'p4'.00' 2070 Cot 00'p4'.00' 20'p4'.00' 2070 Cot 00'p4'.00' 20'p4'.00' 2070 Cot 00'p4'.00' 20'p4'.00' 208*H0057 - 2°12'30' 208*H0057 - 2°13' 209*H0057 - 2°13'	Č				· ·			
opposition direct - 2077 Nec 9g 3g 10:12 12°H51616 2°0801 retrograde opposition or -2070 Oct 9g 10:12 29°H26007 -2°1230 evening set -2076 Mar 05 j 11:22 12°H4607	•	-		20 02506 ATT				30.84001 AU
direct -2077 Dec 09 j 08:12 10°K5'22'8 opposition -2070 Oct 08 j 06:19 28°M0'057 -2°12'30 evening set -2076 Mar 05 j 11:22 12°M4607 min. Earth dist. -2070 Oct 07 j 15:40 28°M0'059 28°M3'78 AU conjunction -2076 Mar 21 j 11:06 13°M21'47 2'00'19 -2069 Mar 22 j 11:00 28°M3'78 -2°0'35'1 max. Earth dist. -2076 Mar 22 j 11:00 13°M21'47 2'00'19 -2069 Mar 22 j 11:00 28°M0'70 -2°0'35'1 morning rise -2076 Apr 06 j 13:45 13°M2'45 30.82377 AU conjunction -2069 Apr 07 j 13:29 29°M0'70 2'03'51 retrograde -2076 Apr 06 j 13:45 13°M3'15' max. Earth dist. -2069 Apr 07 j 13:29 29°M0'70 2'09'51 min. Earth dist. -2076 Sep 24 j 11:23 14°M3'10' -2'09'15 max. Earth dist. -2069 Apr 07 j 13:29 29°M0'70 2'03'51 retrograde -2076 Sep 23 j 16:33 14°M3'10' -2'01'15' max. Earth dist. -2069 Apr 07 j 13:29 29°M0'70' 2'01'21' direct -2075 Mar 24 j 00:48 15°M					-			
evening set -2076 Mar 0 5 j 11:22 12° 44607 min. Earth dist. direct -2070 Oct 0 7 j 15:40 28° 40159 28.84378 AU direct -2070 Oct 0 7 j 15:40 28° 40159 28.84378 AU direct -2070 Mar 2 2 j 11:00 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43700 26° 43710 26° 43700 26° 43710	• •			-2 0001	•			2012/30
conjunction -2076 Mar 21 j 11:06 13°H2147 - 2°00118 evening set -2069 Mar 22 j 11:00 28°H31715		•				-		
conjunction minimum elong minimum elong max. Earth dist. -2076 Mar 21 j 11:06 13°*X21'47 2°00'18 evening set -2069 Mar 22 j 11:00 28°*X31'15	evening set	-2070 Mar 03 j 11.22	12 /(400/			,		20.04370 AC
minimum elong -2076 Mar 21j 11:06 13° ±2147 2°00'19 max. Earth dist. -2076 Mar 22j 07:58 13° ±2345 30.82377 AU conjunction -2069 Apr 07 j 13:29 29° ±0704 -2°03'51 morning rise -2076 Apr 06 j 13:45 13° ±5745 minimum elong -2069 Apr 08 j 05:52 29° ±070 2°03'51 epoposition -2076 Sep 24 j 11:23 14° ±3101 -2°09'15 morning rise -2069 Apr 08 j 05:52 29° ±08'08 30.84432 AU opposition -2076 Sep 24 j 11:23 14° ±3212 28.82487 AU retrograde -2069 May 01 j 14:33 0°° 40° direct -2075 Mar 08 j 00:47 15° ±00'53 10° ±00'16 retrograde -2069 Det 10 j 02:42 0°° 16'19 2° 12'20 conjunction -2075 Mar 24 j 00:48 15° ±36'34 2°01'23 direct -2069 Det 10 j 02:42 0°° 16'19 2° 12'20 minimum elong -2075 Mar 24 j 00:48 15° ±38'25 30.8231 AU evening set -2069 Det 20 j 03:56 30° ±4 2° 12'20 emax. Earth dist. -2075 Mar 24 j 00:29 15° ±38'25 <t< td=""><td>conjunction</td><td>-2076 Mar 21 i 11:06</td><td>13°¥21'47</td><td>-2°00'18</td><td></td><td>-</td><td></td><td></td></t<>	conjunction	-2076 Mar 21 i 11:06	13° ¥ 21'47	-2°00'18		-		
max. Earth dist. -2076 Mar 22 j 07:58 13° ¥23'45 30.82377 AU conjunction -2069 Apr 07 j 13:29 29° ₩070 2°03'51 morning rise -2076 Apr 06 j 13:45 13° ¥5745 minimum elong -2069 Apr 07 j 13:29 29° ₩070 2°03'51 retrograde -2076 Apr 06 jul 07 j 00:48 15° ¥56'27 max. Earth dist. -2069 Apr 08 j 05:52 29° ₩08'3 30.84432 AU opposition -2076 Sep 24 j 11:23 14° ¥31'01 -2°09'15 morning rise -2069 May 01 j 14:33 29° ¥43'07 direct -2076 Dec 10 j 02:36 13° ¥07'10 retrograde -2069 May 01 j 14:33 0° № evening set -2075 Mar 08 j 00:47 15° ₩00'53 retrograde -2069 Oct 10 j 17:21 0° №11'19 2° 12'20 onjunction -2075 Mar 24 j 00:48 15° ¥36'34 2°01'23 -2069 Oct 10 j 02:42 0° №1'17'22 28.8476 AU max. Earth dist. -2075 Mar 24 j 00:48 15° ¥38'23 30.8231 AU -2068 Mar 24 j 00:09 30° № 8° ¥1'11 opposition -2075 Apr 09 j 03:56 16° ¥12'23 30.82331 AU -2068 Mar 24 j 01:0		•			evening sec	2009 Mai 22 j 11.00	20 /(31 13	
moming rise -2076 Apr 06 j 13:45 13° \ 5745 \ 15° \ 5627 \ 1000 \ 18° \ 5627 \ 1000 \ 18° \ 5627 \ 1000 \ 18° \ 5627 \ 1000 \ 18° \ 5627 \ 1000 \ 1000 \ 18° \ 18° \ 5627 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \ 10000 \	-	-			conjunction	-2069 Apr 07 i 13:29	29° ₩ 07'04	-2°03'51
Petrograde -2076 10 07 00:48 15°\\$5627 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 -2°09'15 14°\\$31'01 14°\\$31'01 -2°09'15 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$31'01 14°\\$41'19 14°\		•						
opposition -2076 Sep 24 j 11:23 14° ± 31'01 -2°0915 morning rise -2069 Apr 23 j 18:13 29° ± 43'07	-							
min. Earth dist.		-	14° ¥ 31′01	-2°09'15	morning rise			
direct -2076 Dec 10 j 20:36 13°\tau0100000000000000000000000000000000000		-2076 Sep 23 j 16:32	14°) 32′21	28.82487 AU			$0^{\circ}\mathbf{Y}$	
min. Earth dist. -2075 Mar 24 j 00:48 15°\tau36" 2°01'23 direct -2069 Oct 20 j 08:50 30°κ\tau36"	direct	-2076 Dec 10 j 20:36	13°) €07'10		retrograde	-2069 Jul 23 j 18:45	1° Y 41'19	
conjunction -2075 Mar 24 j 00:48 15° χ36'34 -2°01'23 -2069 Oct 20 j 08:50 30° χ χ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ	evening set	-2075 Mar 08 j 00:47	15°) €00'53		opposition	-2069 Oct 10 j 17:21	0° Ƴ 16'19	-2°12'20
minimum elong -2075 Mar 24 j 00:48 15° ± 36'34 2°01'23 direct -2069 Dec 27 j 03:34 28° ± 52'1 Least the dist. -2075 Mar 24 j 20:29 15° ± 36'34 2°01'23 direct -2068 Mar 01 j 08:03 0°° 1 1 1 1 1 1 1 2068 Mar 24 j 01:07 0°° 46'40 1 1 1 1 2068 Mar 24 j 01:07 0°° 46'40 2 1 1 1 2068 Mar 24 j 01:07 0°° 46'40 2 1 2 1 2 1 2 2 0°° 46'40' 2 10'18 2008 Mar 29 j 03:55 1°° 1°° 2 2 0°3'36 1°° 2 2 0°3'36 1°° 2 2 0°3'36 1°° 2 0°3'36 1°° 2 0°3'36 1°° 1°° 2 0°3'36 1°° 2 0°3'36 1°° 2 0°3'36 1°° 2 0°3'36 1°° 0°2'2'30 2°0'3'36 0°3'36 0°3'3'55 <th< td=""><td></td><td></td><td></td><td></td><td>min. Earth dist.</td><td>-2069 Oct 10 j 02:42</td><td>0°Υ17'22</td><td>28.84764 AU</td></th<>					min. Earth dist.	-2069 Oct 10 j 02:42	0° Υ 17'22	28.84764 AU
max. Earth dist. -2075 Mar 24 j 20:29 15° ¥38'25 30.82331 AU -2068 Mar 01 j 08:03 0° Υ	conjunction	-2075 Mar 24 j 00:48	15°) 36′34	-2°01'23		-2069 Oct 20 j 08:50	30° ₹ ₩	
morning rise	minimum elong	9	15°) 36′34	2°01'23	direct			
retrograde	max. Earth dist.	-2075 Mar 24 j 20:29		30.82331 AU		-2068 Mar 01 j 08:03		
opposition -2075 Sep 26 j 22:43 16° \ 45'46 -2°10'18 conjunction -2068 Apr 09 j 03:55 1°Υ22'30 -2°03'36 min. Earth dist. -2075 Sep 26 j 04:58 16° \ 44'02 28.82521 AU minimum elong -2068 Apr 09 j 03:55 1°Υ22'30 2°03'36 direct -2075 Dec 13 j 06:54 15° \ 12'153 max. Earth dist. -2068 Apr 09 j 03:55 1°Υ23'55 30.84767 AU evening set -2074 Mar 10 j 14:14 17° \ 15'40 morning rise -2068 Apr 09 j 03:55 1°Υ23'55 30.84767 AU conjunction -2074 Mar 20 j 14:50 17° \ 15'40 morning rise -2068 Apr 09 j 03:55 1° \ 12'0'23'5 30.84767 AU conjunction -2074 Mar 10 j 14:14 17° \ 15'140 morning rise -2068 Apr 09 j 03:55 1° \ 12'0'23'5 30.84767 AU conjunction -2074 Mar 26 j 14:50 17° \ 15'15'2 -2°02'16 opposition -2068 Oct 12 j 04:29 2° \ 13'141 -2°11'57 max. Earth dist. -2074 Mar 27 j 11:13 17° \ 53'17 30.82434 AU direct -2068 Dec 28 j 15:06 3° \ 10'0'0'10 1° \ 10'0'140 1° \ 10'0'	morning rise	-2075 Apr 09 j 03:56	16°) 12′33		evening set	-2068 Mar 24 j 01:07	0° Ƴ 46'40	
min. Earth dist.	retrograde	-2075 Jul 09 j 12:50	18°) 11'11					
direct	opposition	-2075 Sep 26 j 22:43			conjunction		1° Y 22'30	-2°03'36
evening set -2074 Mar 10 j 14:14 17°\tag{15'40} morning rise retrograde -2068 Apr 25 j 08:56 1°\tag{58'34} retrograde -2068 Jul 25 j 07:57 3°\tag{56'40} conjunction -2074 Mar 26 j 14:50 17°\tag{51'22} -2°02'16 minimum elong -2074 Mar 26 j 14:50 17°\tag{51'12} -2°02'16 min. Earth dist2068 Oct 12 j 04:29 2°\tag{31'41} -2°\tag{11'57} minimum elong max. Earth dist2074 Mar 27 j 11:13 17°\tag{55'122} -2°02'16 min. Earth dist2068 Oct 12 j 04:29 2°\tag{31'41} -2°\tag{11'57} 2°\tag{32'35} 28.85058 AU direct -2068 Dec 28 j 15:46 1°\tag{70'740} 1°\tag{07'40} retrograde -2074 Apr 11 j 18:05 18°\tag{27'21} retrograde -2074 Jul 12 j 00:48 20°\tag{25'54} opposition -2074 Sep 29 j 09:45 19°\tag{07'33'} -2°\tag{11'09} conjunction -2067 Apr 11 j 18:26 3°\tag{3}\tag{3}\tag{3}\tag{3}\tag{10'10} min. Earth dist. -2074 Dec 15 j 18:21 17°\tag{3}\tag{3}\tag{3} max. Earth dist. -2068 Dec 28 j 15:46 -2068 Dec 28 j 15:46 1°\tag{0}0	min. Earth dist.			28.82521 AU	· ·			
retrograde -2068 Jul 25 j 07:57 3°Y56'40 conjunction -2074 Mar 26 j 14:50 17°\times 51'22 -2°02'16 opposition -2068 Oct 12 j 04:29 2°Y31'41 -2°11'57 minimum elong -2074 Mar 26 j 14:50 17°\times 51'22 2°02'16 min. Earth dist2068 Oct 11 j 15:45 2°Y32'35 28.85058 AU max. Earth dist2074 Mar 27 j 11:13 17°\times 53'17 30.82434 AU direct -2068 Dec 28 j 15:46 1°Y07'40 morning rise -2074 Apr 11 j 18:05 18°\times 27'21 evening set -2067 Mar 26 j 15:06 3°Y02'01 retrograde -2074 Jul 12 j 00:48 20°\times 55'4 opposition -2074 Sep 29 j 09:45 19°\times 00'33 -2°11'09 conjunction -2067 Apr 11 j 18:26 3°Y37'53 -2°03'10 min. Earth dist2074 Sep 28 j 15:56 19°\times 01'49 28.82692 AU minimum elong -2067 Apr 11 j 18:26 3°Y37'53 2°03'10 direct -2074 Dec 15 j 18:21 17°\times 36'39 \times max. Earth dist2067 Apr 12 j 08:53 3°Y39'14 30.85025 AU		-						30.84767 AU
conjunction	evening set	-2074 Mar 10 j 14:14	17° ∺ 15'40		•			
minimum elong	_				-			
max. Earth dist.		-				-		
morning rise		-				-		28.85058 AU
retrograde				30.82434 AU		-		
opposition -2074 Sep 29 j 09:45 19°★00'33 -2°11'09 conjunction -2067 Apr 11 j 18:26 3° Y 37'53 -2°03'10 min. Earth dist2074 Sep 28 j 15:56 19°★01'49 28.82692 AU minimum elong -2067 Apr 11 j 18:26 3° Y 37'53 2°03'10 direct -2074 Dec 15 j 18:21 17°★36'39 max. Earth dist2067 Apr 12 j 08:53 3° Y 39'14 30.85025 AU	•				evening set	-2067 Mar 26 j 15:06	3°'Y'02'01	
min. Earth dist.	-	-		2011163		00/5	2002	••••
direct -2074 Dec 15 j 18:21 17°¥36'39 max. Earth dist2067 Apr 12 j 08:53 3°♥39'14 30.85025 AU								
				28.82692 AU	_			
-20/3 Mai 15 J 05.32 19 π 50 51 morning rise -200/ Apr 2/J 25:40 4* ¥ 13:5/		-						30.83025 AU
	evening set	-20/5 Mar 13 J 03:52	19 T 30'31		morning rise	-200/ Apr 2/J 23:40	4 1133/	

Planetary Pheno	omena of Neptune f	From -2400	through -1898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 27
•	nical year style is used: Th		-				
retrograde	-2067 Jul 27 j 21:14	6° Υ 11'54		minimum elong	-2060 Apr 27 j 22:58	19° Υ 21'13	1°54'58
opposition	-2067 Oct 14 j 15:24	4° Ƴ 46'57	-2°11'23	max. Earth dist.	-2060 Apr 28 j 07:27	19° Y 22'00	30.87398 AU
min. Earth dist.	-2067 Oct 14 j 02:42		28.85264 AU	morning rise	-2060 May 14 j 05:43	19° Ƴ 57'18	
direct	-2067 Dec 31 j 05:29	3° Y 22'51		retrograde	-2060 Aug 12 j 09:35	21° Υ 54'11	
evening set	-2066 Mar 29 j 05:20	5° Υ 17'15		opposition	-2060 Oct 29 j 18:09	20° Υ 29'29	-2°01'56
evening sec	2000 Mar 25 j 05.20	5 1 17 15		min. Earth dist.	-2060 Oct 29 j 10:17		28.87887 AU
conjunction	-2066 Apr 14 j 08:53	5°Υ53'08	-2°02'33	direct	-2059 Jan 15 j 14:47	19° Υ 04'59	20.07007710
minimum elong	-2066 Apr 14 j 08:53	5°Υ53'08		evening set	-2059 Apr 14 j 07:22	20° Υ 59'44	
max. Earth dist.	-2066 Apr 14 j 21:29		30.85204 AU	evening set	-2037 Apr 14 j 07.22	20 13744	
morning rise	-2066 Apr 30 j 14:28	6° Υ 29'12	30.83204 AU	agniumation	2050 Amr. 20: 12:22	21° Y 35'43	1952105
-	1 3	8° Υ 26'59		conjunction	-2059 Apr 30 j 13:22	21° $\Upsilon 35'43$ 21° $\Upsilon 35'43$	
retrograde	-2066 Jul 30 j 09:43		2010127	minimum elong	-2059 Apr 30 j 13:22		
opposition	-2066 Oct 17 j 02:17	7° Υ 02'03		max. Earth dist.	-2059 Apr 30 j 21:02		30.88154 AU
min. Earth dist.	-2066 Oct 16 j 15:16		28.85430 AU	morning rise	-2059 May 16 j 20:17	22°Υ11'48	
direct	-2065 Jan 02 j 16:27	5° Y 37'52		retrograde	-2059 Aug 14 j 21:48	24° Y 08'35	
evening set	-2065 Mar 31 j 19:18	7° Ƴ 32'18		opposition	-2059 Nov 01 j 04:47	22° Y 43'59	
				min. Earth dist.	-2059 Oct 31 j 22:42		28.88674 AU
conjunction	-2065 Apr 16 j 23:23	8° Y 08'12		direct	-2058 Jan 18 j 02:32	21° Y 19'28	
minimum elong	-2065 Apr 16 j 23:23	8° Y 08'12	2°01'44	evening set	-2058 Apr 16 j 21:32	23° Ƴ 14'19	
max. Earth dist.	-2065 Apr 17 j 12:08	8° Ƴ 09'23	30.85370 AU				
morning rise	-2065 May 03 j 05:03	8° Ƴ 44'16		conjunction	-2058 May 03 j 03:53	23° Y 50'20	-1°51'01
retrograde	-2065 Aug 01 j 22:14	10° Ƴ 41'53		minimum elong	-2058 May 03 j 03:53	23° Y 50'20	1°50'59
opposition	-2065 Oct 19 j 13:04	9° Υ 16'57	-2°09'40	max. Earth dist.	-2058 May 03 j 10:50	23° Y 50'58	30.88965 AU
min. Earth dist.	-2065 Oct 19 j 02:22	9° Ƴ 17'43	28.85597 AU	morning rise	-2058 May 19 j 10:52	24° Y 26'25	
direct	-2064 Jan 05 j 05:11	7° Y 52'42		retrograde	-2058 Aug 17 j 11:03	26° Y 23'04	
evening set	-2064 Apr 02 j 09:16	9° Ƴ 47'09		opposition	-2058 Nov 03 j 15:11	24° Y 58'34	-1°57'31
5 · 5 · · · · · · · · · · · · · · · · ·				min. Earth dist.	-2058 Nov 03 j 09:10		28.89472 AU
conjunction	-2064 Apr 18 j 13:33	10° Y 23′04	-2°00'45	direct	-2057 Jan 20 j 15:53	23° Y 34'04	20.07472710
minimum elong	-2064 Apr 18 j 13:33	10°Υ23'04		evening set	-2057 Apr 19 j 11:51	25° Υ 29'01	
max. Earth dist.			30.85567 AU	evening set	-2037 Apr 19 j 11.31	23 2901	
	-2064 Apr 19 j 00:25		30.83307 AU		2057.14 05:10.20	2600005102	1040147
morning rise	-2064 May 04 j 19:37	10° Y 59′08		conjunction	-2057 May 05 j 18:20	26°Υ05'02	
retrograde	-2064 Aug 03 j 10:20	12° Y 56'36		minimum elong	-2057 May 05 j 18:20	26° Y 05′02	
opposition	-2064 Oct 20 j 23:51	11° Υ 31'41		max. Earth dist.	-2057 May 05 j 23:27		30.89750 AU
min. Earth dist.	-2064 Oct 20 j 13:58		28.85830 AU	morning rise	-2057 May 22 j 01:31	26° Y 41′07	
direct	-2063 Jan 06 j 15:44	10° Y 07′20		retrograde	-2057 Aug 20 j 00:03	28° Ƴ 37'39	
evening set	-2063 Apr 04 j 23:15	12° Y 01′50		opposition	-2057 Nov 06 j 01:50	27° Y 13'15	
				min. Earth dist.	-2057 Nov 05 j 21:35		28.90234 AU
conjunction	-2063 Apr 21 j 04:02	12° Y 37'45	-1°59'35	direct	-2056 Jan 23 j 02:48	25° Ƴ 48'44	
minimum elong	-2063 Apr 21 j 04:03	12° Ƴ 37'45	1°59'34	evening set	-2056 Apr 21 j 01:55	27° Ƴ 43'45	
max. Earth dist.	-2063 Apr 21 j 15:13	12° Ƴ 38'47	30.85838 AU				
morning rise	-2063 May 07 j 10:09	13° Y 13'50		conjunction	-2056 May 07 j 08:50	28° Ƴ 19'47	-1°46'23
retrograde	-2063 Aug 05 j 20:29	15° Ƴ 11'08		minimum elong	-2056 May 07 j 08:51	28° Ƴ 19'47	1°46'21
opposition	-2063 Oct 23 j 10:26	13° Ƴ 46'14	-2°07'09	max. Earth dist.	-2056 May 07 j 13:42	28° Y 20'14	30.90475 AU
min. Earth dist.	-2063 Oct 23 j 01:25		28.86147 AU	morning rise	-2056 May 23 j 16:01	28° Y 55'53	
direct	-2062 Jan 09 j 03:51	12° Y 21'50			-2056 Jun 25 j 03:36	0°8	
evening set	-2062 Apr 07 j 13:22	14°Υ16'22		retrograde	-2056 Aug 21 j 13:02	0° 8 52'15	
e venning see	2002 11p1 07 j 13:22	1. , 1022		renograde	-2056 Oct 19 j 05:19	30°RY	
conjunction	-2062 Apr 23 j 18:23	14° Y 52'18	-1°58'13	opposition	-2056 Nov 07 j 12:24	29° Υ 27'56	-1°52'24
·	-2062 Apr 23 j 18:23	14° Υ 52'18		min. Earth dist.			28.90897 AU
minimum elong max. Earth dist.	-2062 Apr 23 j 18:23 -2062 Apr 24 j 03:49		30.86226 AU	direct	-2056 Nov 07 j 08:51 -2055 Jan 24 j 16:01	29° 7 28° 1 28° Y $03'$ 2 4	20.7007/ AU
			30.80220 AU				
morning rise	-2062 May 10 j 00:50	15°Υ28'23		evening set	-2055 Apr 23 j 16:20	29° Y 58'28	
retrograde	-2062 Aug 08 j 09:21	17° Y 25'32			-2055 Apr 24 j 09:19	0°8	
opposition	-2062 Oct 25 j 21:03	16° ℃ 00'41					
min. Earth dist.	-2062 Oct 25 j 12:03		28.86598 AU	conjunction	-2055 May 09 j 23:20	0° 8 34'31	
direct	-2061 Jan 11 j 15:07	14° Y 36′13		minimum elong	-2055 May 09 j 23:21	0° 8 34'31	
evening set	-2061 Apr 10 j 03:15	16° Ƴ 30'49		max. Earth dist.	-2055 May 10 j 01:45		30.91098 AU
				morning rise	-2055 May 26 j 06:47	1° 8 10'37	
conjunction	-2061 Apr 26 j 08:39	17° Ƴ 06'46		retrograde	-2055 Aug 24 j 00:54	3° 8 06'50	
minimum elong	-2061 Apr 26 j 08:39	17° Y 06'46	1°56'41	opposition	-2055 Nov 09 j 22:50	1° 8 42'34	
max. Earth dist.	-2061 Apr 26 j 18:13	17° Ƴ 07'39	30.86737 AU	min. Earth dist.	-2055 Nov 09 j 20:30	1° 8 42'44	28.91475 AU
morning rise	-2061 May 12 j 15:09	17° Ƴ 42'50		direct	-2054 Jan 27 j 03:02	0° 8 17'58	
retrograde	-2061 Aug 10 j 20:10	19° Ƴ 39'52		evening set	-2054 Apr 26 j 06:33	2° 8 13'06	
opposition	-2061 Oct 28 j 07:44	18° Ƴ 15'05		ū	<u>.</u> .		
min. Earth dist.	-2061 Oct 28 j 00:06		28.87176 AU	conjunction	-2054 May 12 j 13:57	2° 8 49'09	-1°41'07
direct	-2060 Jan 14 j 01:50	16°Υ50'35		minimum elong	-2054 May 12 j 13:57	2° 8 49'09	
evening set	-2060 Apr 11 j 17:16	18° Y 45'15		max. Earth dist.	-2054 May 12 j 16:12		30.91636 AU
	pj 1/.10	, 10 10		morning rise	-2054 May 28 j 21:17	3° 8 25'15	
conjunction	-2060 Apr 27 j 22:58	19° Ƴ 21'13	-1°54'58	retrograde	-2054 Aug 26 j 11:02	5° 8 21'17	
onjunedon	2000 ripi 27 j 22.00	., 12113	1 0 1 0 0	- Ca o grado	200 1110g 20 J 11.02	5 0211/	

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2054 in astronomical counting style is the year 2055 BCE in historical counting style. -2054 Nov 12 j 09:21 3°**8**57'05 -1°46'36 conjunction -2047 May 28 j 16:43 18°826'53 -1°18'16 opposition -2054 Nov 12 j 08:15 3°857'10 28.91971 AU -2047 May 28 j 16:43 18°**8**26'53 1°18'15 min. Earth dist. minimum elong -2053 Jan 29 j 15:29 2°832'26 -2047 May 28 j 12:57 18°**8**26'32 30.96391 AU direct max. Earth dist. -2053 Apr 28 j 20:39 -2047 Jun 14 j 00:02 4°**8**27'34 19°**8**02'54 evening set morning rise -2047 Sep 10 j 19:30 20°857'45 retrograde -2053 May 15 j 04:06 -2047 Nov 27 j 08:44 19°833'56 -1°21'41 conjunction 5°**8**03'38 -1°38'16 opposition -2053 May 15 j 04:06 -2047 Nov 27 j 12:25 min. Earth dist. 19°833'40 28.96981 AU minimum elong 5°**8**03'38 1°38'15 -2053 May 15 j 04:12 max. Earth dist. 5°**8**03'39 30.92125 AU direct -2046 Feb 14 j 04:38 18°**8**08'57 morning rise -2053 May 31 j 11:39 5°**8**39'43 evening set -2046 May 14 j 22:20 20°**8**04'25 retrograde -2053 Aug 28 j 23:21 7°**8**35'35 opposition -2053 Nov 14 j 19:39 6°**8**11'25 -1°43'28 conjunction -2046 May 31 j 06:39 20°840'29 -1°14'30 -2053 Nov 14 j 18:54 -2046 May 31 j 06:39 min. Earth dist. 6°**8**11'28 28.92449 AU minimum elong 20°**8**40'29 1°14'27 4°846'41 -2046 May 31 j 01:01 direct -2052 Feb 01 j 02:35 max. Earth dist. 20°**8**39'58 30.97491 AU evening set -2052 Apr 30 j 10:40 6°841'52 morning rise -2046 Jun 16 j 14:00 21°816'29 retrograde -2046 Sep 13 j 07:20 23°811'12 conjunction -2052 May 16 j 18:26 7°817'56 -1°35'16 opposition -2046 Nov 29 j 18:57 21°847'29 -1°17'35 minimum elong -2052 May 16 j 18:26 7°**8**17'56 1°35'14 min. Earth dist. -2046 Nov 29 j 23:30 21°847'10 28.98105 AU 20°**8**22'30 max. Earth dist. -2052 May 16 j 18:24 7°**と**17'56 30.92606 AU direct -2045 Feb 16 j 15:45 morning rise -2052 Jun 02 j 01:53 7°854'01 evening set -2045 May 17 j 12:03 22°818'02 retrograde -2052 Aug 30 j 08:57 9°**8**49'42 opposition -2052 Nov 16 j 05:54 8°**8**25'34 -1°40'12 conjunction -2045 Jun 02 j 20:33 22°854'07 -1°10'37 min. Earth dist. -2052 Nov 16 i 06:53 8°**と**25'29 28.92941 AU minimum elong -2045 Jun 02 i 20:34 22°**8**54'07 1°10'35 direct -2051 Feb 02 i 13:02 7°800'45 max. Earth dist. -2045 Jun 02 i 15:05 22°853'36 30.98615 AU evening set -2051 May 03 j 00:45 8°**8**55'57 morning rise -2045 Jun 19 j 03:37 23°830'06 retrograde -2045 Sep 15 j 18:03 25°**8**24'40 -2051 May 19 j 08:38 9°832'01 -1°32'08 -2045 Dec 02 j 05:13 24°**8**01'04 -1°13'22 conjunction opposition -2051 May 19 j 08:39 9°832'01 1°32'07 -2045 Dec 02 j 11:01 24°800'40 28.99207 AU min. Earth dist. minimum elong -2051 May 19 j 07:11 9°**8**31'53 30.93139 AU -2044 Feb 19 i 04:09 max. Earth dist. direct 22°**8**36'06 -2051 Jun 04 j 16:13 10°**8**08'06 -2044 May 19 j 02:07 evening set 24°**8**31'40 morning rise -2051 Sep 01 j 20:30 12°**8**03'35 retrograde -2051 Nov 18 j 16:04 -2044 Jun 04 j 10:28 25°**8**07'45 -1°06'37 10°**8**39'30 -1°36'46 conjunction opposition 25°**8**07'45 1°06'35 -2044 Jun 04 j 10:28 min. Earth dist. -2051 Nov 18 j 16:51 10°**8**39'26 28.93503 AU minimum elong -2044 Jun 04 j 02:42 25°807'02 30.99699 AU -2050 Feb 05 j 02:38 9°**8**14'36 max. Earth dist. direct -2050 May 05 j 14:43 11°**8**09'51 -2044 Jun 20 j 17:34 25°**8**43'43 evening set morning rise -2044 Sep 17 j 06:36 27°**8**38'09 retrograde -2050 May 21 j 22:44 11°**8**45'56 -1°28'52 -2044 Dec 03 j 15:19 26°**8**14'39 -1°09'03 conjunction opposition -2050 May 21 j 22:44 26°**8**14'12 29.00251 AU minimum elong 11°**8**45'56 1°28'49 min. Earth dist. -2044 Dec 03 j 21:34 max. Earth dist. -2050 May 21 j 20:41 11°**8**45'44 30.93743 AU direct -2043 Feb 20 j 15:19 24°849'38 morning rise -2050 Jun 07 j 06:13 12°**8**21'59 evening set -2043 May 21 j 16:06 26°**8**45'17 retrograde -2050 Sep 04 j 06:56 14°**8**17'18 -2050 Nov 21 j 02:19 12°**8**53'15 -1°33'12 conjunction -2043 Jun 07 j 00:34 27°**8**21'21 -1°02'32 opposition min. Earth dist. -2050 Nov 21 j 04:40 12°**8**53'05 28.94170 AU -2043 Jun 07 j 00:34 27°**8**21'21 1°02'30 minimum elong -2049 Feb 07 j 14:13 11°**8**28'19 max. Earth dist. -2043 Jun 06 j 16:25 27°**8**20'36 31.00690 AU direct -2049 May 08 j 04:34 13°**8**23'36 -2043 Jun 23 j 07:20 27°**8**57'19 evening set morning rise -2043 Sep 19 j 15:58 29°**8**51'34 retrograde conjunction -2049 May 24 j 12:46 13°859'40 -1°25'28 opposition -2043 Dec 06 i 01:41 28°828'09 -1°04'38 -2049 May 24 j 12:46 minimum elong 13°**8**59'40 1°25'26 min. Earth dist. -2043 Dec 06 i 09:52 28°**8**27'34 29.01187 AU -2049 May 24 j 10:10 max. Earth dist. 13°**8**59'26 30.94489 AU direct -2042 Feb 23 i 02:16 27°803'07 -2049 Jun 09 j 20:13 morning rise 14°**8**35'43 evening set -2042 May 24 j 06:02 28°**8**58'48 -2049 Jun 21 i 07:43 15°8 conjunction -2049 Sep 06 j 19:03 16°830'52 -2042 Jun 09 i 14:21 29°**8**34'51 -0°58'21 retrograde -2049 Nov 23 j 12:26 15°806'52 -1°29'30 minimum elong -2042 Jun 09 i 14:21 29°**8**34'51 0°58'19 opposition min. Earth dist. -2049 Nov 23 j 14:25 15°**8**06'44 28.94976 AU max. Earth dist. -2042 Jun 09 j 04:25 29°833'56 31.01586 AU -2049 Nov 27 j 13:17 15°R₩ -2042 Jun 20 j 22:27 $0^{\circ}II$ morning rise -2042 Jun 25 j 21:01 direct -2048 Feb 10 j 03:23 13°**8**41'53 0°**Ⅱ**10'48 2°**Ⅱ**04'54 -2048 Apr 21 j 19:07 15°8 retrograde -2042 Sep 22 j 02:59 15°**8**37'14 -2048 May 09 j 18:24 opposition -2042 Dec 08 j 11:51 0°**Д**41'33 -1°00'08 evening set -2042 Dec 08 j 20:05 0°**Д**40'58 29.02031 AU min. Earth dist. -2048 May 26 j 02:37 16°**8**13'18 -1°21'56 -2041 Jan 03 j 02:21 30°R₩ conjunction -2048 May 26 j 02:38 16°**8**13'18 1°21'53 -2041 Feb 25 j 15:18 29°816'28 minimum elong direct 16°**8**12'56 30.95371 AU max. Earth dist. -2048 May 25 j 22:45 -2041 Apr 19 j 03:04 Π °0 morning rise -2048 Jun 11 j 10:07 16°**8**49'20 evening set -2041 May 26 j 19:51 1°**Ⅲ**12′10 retrograde -2048 Sep 08 j 07:18 18°**8**44'20 opposition -2048 Nov 24 j 22:40 17°**8**20'25 -1°25'39 conjunction -2041 Jun 12 j 04:09 1°**I**48'13 -0°54'06 min. Earth dist. -2048 Nov 25 j 01:57 17°**8**20'11 28.95928 AU minimum elong -2041 Jun 12 j 04:09 1°**I**48'13 0°54'04 -2047 Feb 11 j 14:49 15°**8**55'25 max. Earth dist. -2041 Jun 11 j 17:24 1°**I**47'14 31.02390 AU direct -2047 May 12 j 08:16 17°**8**50'49 -2041 Jun 28 j 10:32 2°**I**I24'08 evening set morning rise

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 29 Attention, astronomical year style is used: The year -2041 in astronomical counting style is the year 2042 BCE in historical counting style.							
retrograde	-2041 Sep 24 j 12:52	4° Ⅱ 18'05		conjunction	-2034 Jun 28 i 01:08	17° Ⅲ 17'41	-0°22'33
opposition	-2041 Dec 10 j 22:05	2° Ⅱ 54'47	-0°55'32	minimum elong	-2034 Jun 28 j 01:08	17° Ⅱ 17'41	
min. Earth dist.	-2041 Dec 11 j 08:12		29.02809 AU	morning rise	-2034 Jul 14 j 05:20	17° I 53′24	
direct	-2040 Feb 28 j 02:16	1° Ⅱ 29'39		retrograde	-2034 Oct 09 j 17:27	19° ∏ 46′24	
evening set	-2040 May 28 j 09:30	3° Ⅱ 25'23		opposition	-2034 Dec 25 j 21:03	18° Ⅱ 23'37	-0°21'37
e venning see	20.01.11.3 20 3 05.50	3 420 23		min. Earth dist.	-2034 Dec 26 j 11:21		29.09440 AU
conjunction	-2040 Jun 13 j 17:45	4° Ⅱ 01'25	-0°49'46	direct	-2033 Mar 15 j 15:54	16° ∏ 58'24	
minimum elong	-2040 Jun 13 j 17:45	4° Ⅱ 01'25		evening set	-2033 Jun 14 j 07:24	18° Ⅱ 54'26	
max. Earth dist.	-2040 Jun 13 j 06:05		31.03156 AU	<i>3</i>	,		
morning rise	-2040 Jun 29 j 23:58	4° Ⅱ 37'18		conjunction	-2033 Jun 30 j 14:05	19° Ⅱ 30'21	-0°17'52
retrograde	-2040 Sep 26 j 00:07	6° Ⅱ 31'05		minimum elong	-2033 Jun 30 j 14:05	19° Ⅱ 30'21	0°17'50
opposition	-2040 Dec 12 j 08:10	5° Ⅱ 07'50	-0°50'52	max. Earth dist.	-2033 Jun 29 j 21:35	19° Ⅱ 28'49	31.10047 AU
min. Earth dist.	-2040 Dec 12 j 18:15	5° Ⅱ 07'07	29.03547 AU	morning rise	-2033 Jul 16 j 18:02	20° Ⅲ 06′01	
direct	-2039 Mar 01 j 15:32	3° Ⅱ 42'39		retrograde	-2033 Oct 12 j 04:02	21° Ⅱ 58'56	
evening set	-2039 May 30 j 23:14	5° Ⅱ 38'25		opposition	-2033 Dec 28 j 07:07	20° Ⅱ 36′16	-0°16'35
				min. Earth dist.	-2033 Dec 28 j 21:14	20° Ⅱ 35'16	29.10667 AU
conjunction	-2039 Jun 16 j 07:17	6° Ⅱ 14′26	-0°45'22	direct	-2032 Mar 17 j 03:56	19° Ⅱ 11'04	
minimum elong	-2039 Jun 16 j 07:17	6° Ⅱ 14'26	0°45'20	evening set	-2032 Jun 15 j 20:43	21° Ⅲ 07′10	
max. Earth dist.	-2039 Jun 15 j 18:13	6° Ⅱ 13'13	31.03894 AU	max. Earth dist.	-2032 Jul 01 j 10:08	21° Ⅱ 41'30	31.11241 AU
morning rise	-2039 Jul 02 j 13:16	6° Ⅱ 50′17					
retrograde	-2039 Sep 28 j 11:25	8° Ⅱ 43'55		conjunction	-2032 Jul 02 j 03:09	21° Ⅱ 43′04	-0°13'09
opposition	-2039 Dec 14 j 18:18	7° Ⅲ 20′42	-0°46'08	minimum elong	-2032 Jul 02 j 03:08	21° Ⅱ 43′04	0°13'06
min. Earth dist.	-2039 Dec 15 j 05:47	7° Ⅱ 19′53	29.04304 AU	behind sun begin	-2032 Jul 01 j 23:19	21° Ⅱ 42'43	
direct	-2038 Mar 04 j 03:20	5° Ⅱ 55'29		behind sun end	-2032 Jul 02 j 06:57	21° Ⅱ 43′24	
evening set	-2038 Jun 02 j 12:43	7° Ⅱ 51'16		morning rise	-2032 Jul 18 j 06:34	22° Ⅱ 18'43	
				retrograde	-2032 Oct 13 j 13:58	24° Ⅱ 11'32	
conjunction	-2038 Jun 18 j 20:43	8° Ⅲ 27′16	-0°40'55	opposition	-2032 Dec 29 j 17:32	22° Ⅱ 48'57	-0°11'32
minimum elong	-2038 Jun 18 j 20:43	8° Ⅲ 27′16	0°40'51	min. Earth dist.	-2032 Dec 30 j 09:27	22° Ⅱ 47'50	29.11826 AU
max. Earth dist.	-2038 Jun 18 j 07:48	8° Ⅲ 26′05	31.04678 AU	direct	-2031 Mar 19 j 13:44	21° Ⅱ 23'47	
morning rise	-2038 Jul 05 j 02:20	9° Ⅱ 03'05		evening set	-2031 Jun 18 j 10:04	23° Ⅱ 19'56	
retrograde	-2038 Sep 30 j 22:38	10° Ⅱ 56'34					
opposition	-2038 Dec 17 j 04:27	9° Ⅱ 33'24	-0°41'20	conjunction	-2031 Jul 04 j 16:08	23° Ⅱ 55'47	
min. Earth dist.	-2038 Dec 17 j 16:10		29.05114 AU	minimum elong	-2031 Jul 04 j 16:08	23° Ⅱ 55'47	0°08'23
direct	-2037 Mar 06 j 17:32	8° Ⅱ 08'09		behind sun begin	-2031 Jul 04 j 10:23	23° Ⅱ 55'17	
evening set	-2037 Jun 05 j 02:04	10° Ⅱ 03'58		behind sun end	-2031 Jul 04 j 21:53	23° Ⅱ 56'18	
				max. Earth dist.	-2031 Jul 03 j 22:10		31.12348 AU
conjunction	-2037 Jun 21 j 09:43	10° Ⅱ 39'57		morning rise	-2031 Jul 20 j 19:08	24° Ⅱ 31′24	
minimum elong	-2037 Jun 21 j 09:43	10° Ⅱ 39'57		retrograde	-2031 Oct 16 j 00:30	26° Ⅱ 24'07	
max. Earth dist.	-2037 Jun 20 j 19:18		31.05538 AU	opposition	-2030 Jan 01 j 03:50	25° Ⅱ 01'38	
morning rise	-2037 Jul 07 j 15:09	11° Ⅱ 15'45		min. Earth dist.	-2030 Jan 01 j 19:46		29.12866 AU
retrograde	-2037 Oct 03 j 09:51	13° Ⅱ 09'05		direct	-2030 Mar 22 j 02:31	23° Ⅱ 36'27	
opposition	-2037 Dec 19 j 14:35	11° Ⅱ 45'59		evening set	-2030 Jun 20 j 23:25	25° Ⅲ 32'39	
min. Earth dist.	-2037 Dec 20 j 02:44		29.06037 AU	max. Earth dist.	-2030 Jul 06 j 09:39	26°Щ06'41	31.13322 AU
direct	-2036 Mar 08 j 04:53	10° Ⅱ 20'43			2020 1 1 07:05 02	260 T 00120	0002142
evening set	-2036 Jun 06 j 15:22	12° Ⅱ 16'35		conjunction	-2030 Jul 07 j 05:03	26°∏08'28	
	2026 I 22:22:00	12° Ⅱ 52'32	0921140	minimum elong	-2030 Jul 07 j 05:02	26° Ⅱ 08'28 26° Ⅱ 07'53	0°03'39
conjunction	-2036 Jun 22 j 23:00			behind sun begin	-2030 Jul 06 j 22:32		
minimum elong max. Earth dist.	-2036 Jun 22 j 23:00 -2036 Jun 22 j 09:09	12° ∏ 52'32	31.06518 AU	behind sun end morning rise	-2030 Jul 07 j 11:33 -2030 Jul 23 j 07:35	26° Ⅲ 09'03 26° Ⅲ 44'03	
morning rise	-2036 Jul 09 j 03:56	13° II 28'18	31.00318 AU	retrograde	-2030 Jul 23 j 07:33	28° I I36'40	
retrograde	-2036 Oct 04 j 20:11	15° I I21'30		opposition	-2029 Jan 03 j 14:20	28 H 3040 27° H 14'13	0°01'24
opposition	-2036 Oct 04 j 20:11 -2036 Dec 21 j 00:39	13° I I21'30 13° I I58'30	0°31'34	min. Earth dist.	-2029 Jan 04 j 07:40		29.13788 AU
min. Earth dist.	-2036 Dec 21 j 10:39		29.07070 AU	direct	-2029 Mar 24 j 14:17	25° Ⅱ 49'01	29.13788 AU
direct	-2035 Mar 10 j 17:42	13° Ⅱ 37′33′14	2).0/0/0 AC	asc. node	-2029 Apr 14 j 20:02	25° I I56'19	
evening set	-2035 Jun 09 j 04:51	14° Ⅱ 29'09		evening set	-2029 Jun 23 j 12:24	27° II 45'14	
evening set	-2033 Juli 07 J 04.31	17 112707		evening set	-202) Juli 25 j 12.24	2/ 11-3/1-	
conjunction	-2035 Jun 25 j 12:04	15° Ⅱ 05'06	-0°27'12	conjunction	-2029 Jul 09 j 17:45	28° Ⅲ 21'01	0°01'09
minimum elong	-2035 Jun 25 j 12:04	15° Ⅱ 05'06		minimum elong	-2029 Jul 09 j 17:45	28° Ⅲ 21'01	0°01'11
max. Earth dist.	-2035 Jun 24 j 20:31		31.07620 AU	behind sun begin	-2029 Jul 09 j 11:12	28° Ⅲ 20′26	
morning rise	-2035 Jul 11 j 16:50	15° Ⅱ 40′50		behind sun end	-2029 Jul 10 j 00:19	28° Ⅲ 21'36	
retrograde	-2035 Oct 07 j 08:36	17° Ⅱ 33'56		max. Earth dist.	-2029 Jul 08 j 22:16	28° Ⅱ 19'13	31.14180 AU
opposition	-2035 Dec 23 j 10:46	16° Ⅱ 11′02	-0°26'37	morning rise	-2029 Jul 25 j 19:46	28° Ⅱ 56'33	
min. Earth dist.	-2035 Dec 23 j 23:33		29.08224 AU	-	-2029 Aug 27 j 03:50	0ಂತಾ	
direct	-2034 Mar 13 j 05:02	14° Ⅱ 45'47		retrograde	-2029 Oct 20 j 21:41	0°549'03	
evening set	-2034 Jun 11 j 18:03	16° Ⅱ 41'45			-2029 Dec 16 j 13:17	30°RⅡ	
max. Earth dist.	-2034 Jun 27 j 09:59	17° Ⅱ 16′17	31.08810 AU	opposition	-2028 Jan 06 j 00:44	29° Ⅱ 26'39	0°03'40
				min. Earth dist.	-2028 Jan 06 j 18:39	29° Ⅱ 25'24	29.14577 AU

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2028 in astronomical counting style is the year 2029 BCE in historical counting style. -2028 Mar 26 j 04:21 28°**Ⅲ**01'25 direct -2022 Apr 09 j 04:21 11°9511'30 direct evening set -2028 Jun 25 i 01:36 29°**I**57'39 -2022 Jul 09 j 05:26 13°907'47 evening set 13°5541'12 31.19350 AU -2028 Jun 26 j 03:43 -2022 Jul 24 j 08:44 000 max. Earth dist. -2028 Jul 10 j 09:07 max. Earth dist. 0°931'26 31.14918 AU conjunction -2022 Jul 25 j 07:20 13°**©**43'18 0°33'45 -2022 Jul 25 j 07:20 conjunction -2028 Jul 11 j 06:25 0°933'24 0°05'55 minimum elong 13°9543'18 0°33'48 -2028 Jul 0°05'57 -2022 Aug 10 j 05:32 minimum elong 11 j 06:24 0°933'24 morning rise 14°9518'31 behind sun begin -2028 Jul 11 j 00:09 0°932'50 retrograde -2022 Nov 04 j 20:28 16°9510'22 -2021 Jan 21 j 01:26 0°38'25 behind sun end -2028 Jul 11 j 12:39 0°933'57 opposition 14°9548'14 morning rise -2028 Jul 27 j 08:02 1°908'53 min. Earth dist. -2021 Jan 21 j 21:33 14°9546'50 29.19873 AU retrograde -2028 Oct 22 j 08:53 3°901'16 direct -2021 Apr 11 j 16:36 13°9522'53 -2021 Jul 11 j 17:41 opposition -2027 Jan 07 j 10:58 1°938'53 0°08'43 evening set 15°519'13 min. Earth dist. -2027 Jan 08 j 05:33 1°537'35 29.15279 AU direct -2027 Mar 28 j 15:48 0°9513'36 conjunction -2021 Jul 27 j 19:00 15°954'41 0°38'16 evening set -2027 Jun 27 j 14:32 2°909'50 minimum elong -2021 Jul 27 j 18:59 15°954'41 0°38'18 max. Earth dist. -2021 Jul 26 j 19:45 15°952'32 31.20339 AU conjunction -2027 Jul 13 j 19:03 2°9545'33 0°10'37 morning rise -2021 Aug 12 j 16:38 16°9529'52 minimum elong -2027 Jul 13 j 19:04 2°9545'33 0°10'39 retrograde -2021 Nov 07 j 06:59 18°9521'43 behind sun begin -2027 Jul 13 j 14:02 2°9545'06 opposition -2020 Jan 23 j 11:59 16°959'39 0°43'13 behind sun end -2027 Jul 14 j 00:05 2°9545'59 min. Earth dist. -2020 Jan 24 j 08:59 16°558'11 29.20881 AU max. Earth dist. -2027 Jul 12 j 22:13 2°543'37 31.15580 AU direct -2020 Apr 13 j 03:07 15°934'21 morning rise -2027 Jul 29 i 20:01 3°520'59 evening set -2020 Jul 13 i 06:00 17°530'44 retrograde -2027 Oct 24 i 19:03 5°9513'15 max. Earth dist. -2020 Jul 28 j 07:57 18°504'03 31.21331 AU opposition -2026 Jan 09 j 21:26 3°950'53 0°13'46 min. Earth dist. -2026 Jan 10 j 17:01 3°9549'31 29.15914 AU conjunction -2020 Jul 29 i 06:49 18°506'10 0°42'43 -2026 Mar 31 j 05:53 2°925'34 -2020 Jul 29 i 06:49 direct minimum elong 18°906'10 0°42'46 4°921'47 -2020 Aug 14 j 03:46 -2026 Jun 30 j 03:21 morning rise 18°9541'18 evening set -2026 Jul 15 j 08:48 4°555'23 31.16210 AU -2020 Nov 08 j 17:06 max. Earth dist. retrograde 20°933'08 -2019 Jan 24 j 22:32 19°9311'09 0°47'56 opposition -2026 Jul 16 j 07:13 -2019 Jan 25 j 19:52 conjunction 4°957'27 0°15'18 min. Earth dist. 19°509'40 29.21842 AU -2019 Apr 15 j 15:56 -2026 Jul 16 j 07:13 4°957'27 0°15'21 17°9345'54 minimum elong direct -2026 Jul 16 j 05:30 -2019 Jul 15 j 18:28 19°5542'20 4°957'18 behind sun begin evening set -2026 Jul 16 j 08:55 behind sun end 4°957'36 -2019 Jul 31 j 18:31 -2026 Aug 01 j 07:48 20°517'44 0°47'07 morning rise 5°932'50 conjunction -2026 Oct 27 j 06:39 -2019 Jul 31 j 18:31 retrograde 7°9524'59 minimum elong 20°917'44 0°47'09 -2025 Jan 12 j 07:45 -2019 Jul 30 j 18:16 opposition 6°502'38 0°18'46 max. Earth dist. 20°515'29 31.22252 AU -2019 Aug 16 j 14:56 min. Earth dist. -2025 Jan 13 j 02:59 6°901'18 29.16555 AU morning rise 20°952'49 -2025 Apr 02 j 18:31 4°937'16 retrograde -2019 Nov 11 j 04:43 22°5544'38 direct -2025 Jul 02 j 15:56 6°533'29 -2018 Jan 27 j 09:17 21°522'43 0°52'35 evening set opposition min. Earth dist. -2018 Jan 28 j 06:55 21°521'14 29.22729 AU conjunction -2025 Jul 18 j 19:28 7°509'07 0°19'58 direct -2018 Apr 18 j 02:38 19°**©**57'31 -2025 Jul 18 j 19:28 7°509'07 0°20'00 -2018 Jul 18 j 06:33 21°953'59 minimum elong evening set -2025 Jul 17 j 21:40 7°507'06 31.16860 AU max. Earth dist. -2018 Aug 02 j 06:34 22°527'08 31.23069 AU max. Earth dist. -2025 Aug 03 j 19:20 7°5544'28 morning rise -2025 Oct 29 j 15:03 -2018 Aug 03 j 06:08 22°9529'20 retrograde 9°936'31 conjunction 0°51'26 opposition -2024 Jan 14 j 18:07 8°514'11 0°23'45 minimum elong -2018 Aug 03 i 06:08 22°9529'20 0°51'28 min. Earth dist. -2024 Jan 15 j 14:37 8°512'45 29.17243 AU morning rise -2018 Aug 19 i 01:45 23°904'22 direct -2024 Apr 04 i 06:21 6°9548'47 retrograde -2018 Nov 13 j 15:13 24°956'11 evening set -2024 Jul 04 i 04:34 8°9545'00 opposition -2017 Jan 29 i 20:09 23°**©**34'19 0°57'10 max. Earth dist. -2024 Jul 19 j 08:46 9°518'30 31.17592 AU min. Earth dist. -2017 Jan 30 i 18:43 23°532'45 29.23485 AU -2017 Apr 20 j 16:39 22°909'08 direct -2024 Jul 20 j 07:29 9°520'36 0°24'36 -2017 Jul 20 j 18:50 24°905'37 conjunction evening set -2024 Jul 20 j 07:29 9°\$20'36 0°24'39 minimum elong morning rise -2024 Aug 05 j 06:57 9°955'54 conjunction -2017 Aug 05 j 17:38 24°9540'55 0°55'40 retrograde -2024 Oct 31 j 01:14 11°9547'51 minimum elong -2017 Aug 05 j 17:38 24°9540'55 0°55'42 -2023 Jan 16 j 04:27 10°925'34 0°28'41 max. Earth dist. -2017 Aug 04 j 16:28 24°538'35 31.23761 AU opposition -2023 Jan 17 j 00:09 10°524'12 29.18021 AU -2017 Aug 21 j 12:47 25°915'54 min. Earth dist. morning rise -2017 Nov 16 j 03:13 direct -2023 Apr 06 j 18:34 9°9500'10 retrograde 27°9507'41 -2023 Jul 06 j 17:02 -2016 Feb 01 j 06:46 evening set 10°956'24 opposition 25°9545'51 1°01'39 min. Earth dist. -2016 Feb 02 j 05:03 25°5944'19 29.24120 AU -2023 Jul 22 j 19:28 conjunction 11°531'58 0°29'12 direct -2016 Apr 22 j 05:23 24°9520'40 minimum elong -2023 Jul 22 j 19:28 11°931'58 0°29'14 evening set -2016 Jul 22 j 06:54 26°917'11 max. Earth dist. -2023 Jul 21 j 20:59 11°529'53 31.18413 AU max. Earth dist. -2016 Aug 06 j 04:30 26°950'08 31.24322 AU morning rise -2023 Aug 07 j 18:13 12°907'13 conjunction retrograde -2023 Nov 02 j 10:34 13°959'07 -2016 Aug 07 j 05:15 26°952'26 0°59'50 -2022 Jan 18 j 14:58 12°936'54 0°33'35 -2016 Aug 07 j 05:15 26°952'26 opposition minimum elong 0°59'52 -2022 Jan 19 j 11:43 -2016 Aug 22 j 23:36 27°527'22 min. Earth dist. 12°535'27 29.18904 AU morning rise

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2016 in astronomical counting style is the year 2017 BCE in historical counting style. -2016 Nov 17 j 11:54 29°9519'07 evening set -2009 Aug 07 j 15:43 11°**Ω**33'46 retrograde -2015 Feb 02 j 17:43 27°957'19 1°06'03 -2009 Aug 22 j 09:44 12°**Ω**06'28 31.27741 AU opposition max. Earth dist. -2015 Feb 03 j 17:23 27°555'40 29.24626 AU min. Earth dist. -2009 Aug 23 j 09:30 12°Ω08'41 1°26'07 -2015 Apr 24 j 17:40 26°932'07 direct conjunction -2015 Jul 24 j 18:56 -2009 Aug 23 j 09:29 12°**Ω**08'41 1°26'09 evening set 28°9528'37 minimum elong -2009 Sep 07 j 23:19 morning rise 12°**Ω**43'17 -2009 Dec 03 j 07:48 conjunction -2015 Aug 09 j 16:30 29°903'49 1°03'54 retrograde 14°**Ω**34'57 -2015 Aug 09 j 16:30 -2008 Feb 18 j 22:06 minimum elong 29°903'49 1°03'56 opposition 13°**Ω**13'10 1°33'44 -2015 Aug 08 j 14:49 max. Earth dist. 29°501'26 31.24779 AU min. Earth dist. -2008 Feb 19 j 21:06 13°**Ω**11'36 29.28201 AU morning rise -2015 Aug 25 j 10:19 29°538'42 direct -2008 May 10 j 03:31 11°**Q**48'03 -2015 Sep 04 j 10:14 $0^{\circ}\Omega$ evening set -2008 Aug 09 j 03:04 13°**Ω**44'27 -2015 Nov 19 j 22:00 retrograde 1°**Ω**30′25 -2008 Aug 24 j 20:00 opposition -2014 Feb 05 j 04:30 0°**Ω**08'36 1°10'21 conjunction 14°**Ω**19'19 1°29'25 min. Earth dist. -2014 Feb 06 j 03:28 0°**Ω**07'01 29.25042 AU minimum elong -2008 Aug 24 j 20:00 14°**Ω**19'19 1°29'27 -2014 Feb 10 j 09:24 30°Rூ max. Earth dist. -2008 Aug 23 j 19:20 14°**Ω**17'01 31.28475 AU direct -2014 Apr 27 j 06:35 28°5643'24 morning rise -2008 Sep 09 j 09:22 14°**Ω**53'53 -2014 Jul 08 j 00:25 $0^{\circ}\Omega$ -2008 Sep 12 j 05:02 15°€ evening set -2014 Jul 27 j 06:44 0°**Ω**39'52 retrograde -2008 Dec 04 j 19:47 16°**Ω**45'35 max. Earth dist. -2014 Aug 11 j 02:16 1°**Ω**12'40 31.25158 AU opposition -2007 Feb 20 j 09:13 15°**Ω**23'51 1°37'12 min. Earth dist. -2007 Feb 21 j 07:19 15°**Ω**22'20 29.28937 AU conjunction -2014 Aug 12 j 03:44 1°Ω15'02 1°07'52 -2007 Mar 07 j 01:57 15°RΩ minimum elong -2014 Aug 12 j 03:43 1°Ω15'02 1°07'55 direct -2007 May 12 i 15:26 13°**Ω**58'47 morning rise -2014 Aug 27 j 20:49 1°**Ω**49'52 -2007 Jul 15 i 04:11 15°Ω retrograde -2014 Nov 22 j 07:24 3°**Ω**41'32 evening set -2007 Aug 11 j 14:09 15°**Ω**55'13 -2013 Feb 07 j 15:25 2°Ω19'43 1°14'32 max. Earth dist. -2007 Aug 26 j 06:52 16°**Ω**27'50 31.29178 AU opposition -2013 Feb 08 j 15:26 2°**Ω**18'04 29.25422 AU min. Earth dist. -2013 Apr 29 j 17:00 -2007 Aug 27 j 06:33 16°Ω30'02 1°32'36 0°**£**54′29 conjunction direct -2013 Jul 29 j 18:16 2°**Q**50′55 -2007 Aug 27 j 06:33 16°**Ω**30'02 1°32'37 minimum elong evening set -2007 Sep 11 j 19:07 morning rise 17°**Ω**04'33 -2013 Aug 14 j 14:38 3°Ω26'02 1°11'44 -2007 Dec 07 j 05:14 18°**Ω**56'19 conjunction retrograde -2013 Aug 14 j 14:38 -2006 Feb 22 j 20:38 17°**Ω**34'37 1°40'31 3°**Ω**26'02 1°11'46 opposition minimum elong -2013 Aug 13 j 13:18 -2006 Feb 23 j 19:45 17°**Ω**33'02 29.29615 AU max. Earth dist. 3°**Ω**23'41 31.25535 AU min. Earth dist. -2013 Aug 30 j 07:09 4°**Ω**00'49 -2006 May 15 j 03:22 16°**Ω**09'37 morning rise direct -2013 Nov 24 j 15:57 5°**Ω**52'27 -2006 Aug 14 j 01:21 18°**Ω**06′02 retrograde evening set 4°**Ω**30'38 1°18'37 -2012 Feb 10 j 02:14 opposition -2012 Feb 11 j 01:25 4°**Ω**29'02 29.25805 AU -2006 Aug 29 j 16:59 18°Ω40'49 1°35'38 min. Earth dist. conjunction $3^{\circ}\Omega 05'22$ -2006 Aug 29 j 16:59 18°**Ω**40'49 1°35'40 direct -2012 May 01 j 06:01 minimum elong -2012 Jul 31 j 05:51 5°**Ω**01'47 max. Earth dist. -2006 Aug 28 j 16:46 18°**Ω**38'33 31.29814 AU evening set max. Earth dist. -2012 Aug 14 j 23:49 5°**Ω**34'27 31.25935 AU morning rise -2006 Sep 14 j 05:03 19°**Ω**15'17 retrograde -2006 Dec 09 j 16:10 $21^{\circ}\Omega$ 07'05 conjunction -2012 Aug 16 j 01:30 5°**Ω**36'51 1°15'30 -2005 Feb 25 j 07:52 19°**Ω**45'26 1°43'41 opposition -2012 Aug 16 j 01:29 5°**Q**36'51 1°15'32 min. Earth dist. -2005 Feb 26 j 06:03 19°**Ω**43'55 29.30201 AU minimum elong -2012 Aug 31 j 17:21 6°**Ω**11'35 -2005 May 17 j 16:18 18°**Ω**20'28 morning rise direct -2012 Nov 26 j 01:19 8°**Ω**03'12 -2005 Aug 16 j 12:22 20°**Ω**16'53 retrograde evening set -2011 Feb 11 j 13:07 6°**Ω**41'21 1°22'35 max. Earth dist. -2005 Aug 31 j 03:25 20°**Ω**49'23 31.30326 AU opposition 6°**Ω**39'44 29.26262 AU min. Earth dist. -2011 Feb 12 i 12:37 -2005 Sep 01 i 03:26 direct -2011 May 03 j 16:10 5°**Ω**16'06 conjunction 20°Ω51'38 1°38'32 evening set -2011 Aug 02 j 17:16 7°Ω12'30 minimum elong -2005 Sep 01 i 03:25 20°**Ω**51'38 1°38'33 max. Earth dist. -2011 Aug 17 j 11:44 7°**Ω**45'13 31.26436 AU morning rise -2005 Sep 16 i 14:50 $21^{\circ}\Omega$ 26'04 -2005 Dec 12 i 02:16 $23^{\circ}\Omega$ 17'55 retrograde -2011 Aug 18 j 12:19 7°Ω47'31 1°19'10 opposition -2004 Feb 27 j 19:25 $21^{\circ}\Omega$ 56'16 $1^{\circ}46'42$ conjunction -2011 Aug 18 j 12:19 7°**Ω**47'31 1°19'11 min. Earth dist. -2004 Feb 28 j 18:34 21°**Ω**54'41 29.30658 AU minimum elong -2011 Sep 03 j 03:26 8°**Ω**22'12 -2004 May 19 j 03:20 20°**Ω**31'21 morning rise direct retrograde -2011 Nov 28 j 10:27 10°Ω13'49 evening set -2004 Aug 17 j 23:26 22°**Ω**27'45 8°**Ω**51'59 1°26'26 opposition -2010 Feb 14 j 00:09 min. Earth dist. -2010 Feb 14 j 23:14 8°**Ω**50'23 29.26812 AU conjunction -2004 Sep 02 j 13:50 23°**Ω**02'26 1°41'17 -2010 May 06 j 04:01 7°**Ω**26'45 minimum elong -2004 Sep 02 j 13:49 23°**Ω**02'26 1°41'19 direct -2010 Aug 05 j 04:32 9°**£**23′08 -2004 Sep 01 j 13:57 23°**Ω**00'12 31.30709 AU evening set max. Earth dist. -2004 Sep 18 j 00:38 23°**Ω**36′50 morning rise -2010 Aug 20 j 22:48 9°**Ω**58'05 1°22'42 -2004 Dec 13 j 11:13 25°**Ω**28'43 conjunction retrograde -2010 Aug 20 j 22:47 minimum elong 9°**Ω**58'05 1°22'44 opposition -2003 Mar 01 j 06:50 24°**Ω**07'05 1°49'35 max. Earth dist. -2010 Aug 19 j 21:39 9°**Ω**55'45 31.27042 AU min. Earth dist. -2003 Mar 02 j 05:16 24°**Ω**05'32 29.30965 AU morning rise -2010 Sep 05 j 13:24 10°**Ω**32'44 direct -2003 May 21 j 16:22 22°**Ω**42'11 evening set retrograde -2010 Nov 30 j 21:42 12°**Ω**24'23 -2003 Aug 20 j 10:26 24° **Q**38'33 opposition -2009 Feb 16 j 11:08 11°**Ω**02'34 1°30'09 max. Earth dist. -2003 Sep 03 j 23:43 25°Ω10'55 31.30948 AU -2009 Feb 17 j 09:41 11°**Ω**01'01 29.27480 AU min. Earth dist. -2009 May 08 j 14:25 9°**Ω**37'22 -2003 Sep 05 j 00:08 25° Ω 13'12 1°43'54 direct conjunction

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -2003 in astronomical counting style is the year 2004 BCE in historical counting style. -2003 Sep 05 i 00:08 25°**Ω**13'12 1°43'55 min. Earth dist. -1996 Mar 17 j 11:39 9° m 19'19 29.32022 AU minimum elong 25°**Ω**47'34 -2003 Sep 20 j 10:24 -1996 Jun 06 j 02:26 7° m 55'59 direct morning rise -2003 Dec 15 j 21:07 27°Ω39'29 -1996 Sep 04 j 11:24 9° m 52'06 evening set retrograde -2002 Mar 03 j 18:29 26°Ω17'50 1°52'18 opposition -2002 Mar 04 j 17:16 min. Earth dist. 26°**Ω**16'16 29.31159 AU conjunction -1996 Sep 19 j 21:04 10° Mp 26'28 1°57'51 -1996 Sep 19 j 21:04 1°57'52 direct -2002 May 24 j 02:30 24°**Ω**52'58 minimum elong 10° Mp 26'28 -1996 Sep 19 j 00:45 evening set -2002 Aug 22 j 21:03 26°**Ω**49'17 max. Earth dist. 10° m/24'34 31.32031 AU -1996 Oct 05 j 03:44 max. Earth dist. -2002 Sep 06 j 10:54 27°**Ω**21'42 31.31085 AU morning rise 11° Mp 00'36 retrograde -1996 Dec 30 j 22:41 12° m 52'59 conjunction -2002 Sep 07 j 10:16 27°**Ω**23'53 1°46'22 opposition -1995 Mar 19 j 04:17 11° Mp 31'13 2°06'36 minimum elong -2002 Sep 07 j 10:15 27°**Ω**23'53 1°46'23 min. Earth dist. -1995 Mar 20 j 00:01 11° m/29'53 29.32337 AU -2002 Sep 22 j 19:54 morning rise 27°**Ω**58'12 direct -1995 Jun 08 j 13:43 10° Mp 06'39 retrograde -2002 Dec 18 j 06:05 29°**Ω**50′10 evening set -1995 Sep 06 j 21:34 12° Mp 02'44 opposition -2001 Mar 06 j 06:04 28°Ω28'29 1°54'51 max. Earth dist. -1995 Sep 21 j 11:15 12° m 35'15 31.32340 AU min. Earth dist. -2001 Mar 07 j 04:40 28°**Ω**26'56 29.31248 AU direct -2001 May 26 j 14:25 27°**Ω**03'37 conjunction -1995 Sep 22 j 06:44 12° m 37'05 1°59'11 evening set -2001 Aug 25 j 07:47 28° **Q**59'54 minimum elong -1995 Sep 22 j 06:44 12° My 37'051°59'11 morning rise -1995 Oct 07 j 12:57 13° TD 11'11 conjunction -2001 Sep 09 j 20:15 29° Ω34'27 1°48'41 retrograde -1994 Jan 02 j 07:40 15° m 03'40 minimum elong -2001 Sep 09 j 20:14 29°**Ω**34'27 1°48'42 opposition -1994 Mar 21 j 16:17 13°**m** 41'55 2°07'56 max. Earth dist. -2001 Sep 08 j 20:14 29° **Ω**32'12 31.31145 AU min. Earth dist. -1994 Mar 22 j 10:48 13° Mp 40'40 29.32616 AU -2001 Sep 21 i 06:23 0° m direct -1994 Jun 11 j 02:22 12° m 17'26 morning rise -2001 Sep 25 i 05:29 0° m 08'44evening set -1994 Sep 09 j 07:39 14° m 13'29 retrograde -2001 Dec 20 j 17:11 2° 100'45 opposition -2000 Mar 07 j 17:29 0° m 39'01 1°57'14 conjunction -1994 Sep 24 i 16:15 14° m 47'48 2°00'20 min. Earth dist. -2000 Mar 08 j 15:31 0° Mp 37'31 29.31303 AU -1994 Sep 24 j 16:15 14° m 47'48 2°00'21 minimum elong -2000 Apr 01 j 11:51 max. Earth dist. -1994 Sep 23 j 20:33 14° mp 45'57 31.32580 AU 30°RΩ -2000 May 28 j 01:00 29°**Ω**14'10 -1994 Oct 09 j 22:08 15° m 21'53 direct morning rise -2000 Jul 21 j 12:20 -1993 Jan 04 j 17:49 0° m retrograde 17° m 14'29 -1993 Mar 24 j 04:23 15° m 52'44 2°09'05 evening set -2000 Aug 26 j 18:16 1° m 10'23 opposition -1993 Mar 24 j 22:59 max. Earth dist. -2000 Sep 10 j 07:52 1° Mp 42'48 31.31191 AU min. Earth dist. 15° m 51'28 29.32820 AU -1993 Jun 13 j 12:32 direct 14° m 28'19 -2000 Sep 11 j 06:17 conjunction 1° m 44'54 1°50'50 -1993 Sep 11 j 17:45 16° m 24'19 evening set -2000 Sep 11 j 06:17 1° m/44'54 1°50'51 max. Earth dist. -1993 Sep 26 j 07:30 16° m 56'53 31.32718 AU minimum elong -2000 Sep 26 j 14:49 2° m 19'09 morning rise -2000 Dec 22 j 03:10 4° My 11'12-1993 Sep 27 j 01:58 16° m 58'37 2°01'20 retrograde conjunction -1999 Mar 10 j 05:14 2° m 49'26 1°59'27 -1993 Sep 27 j 01:58 16° Mp 58'37 2°01'20 opposition minimum elong min. Earth dist. -1999 Mar 11 j 03:21 2° Mp 47'56 29.31366 AU morning rise -1993 Oct 12 j 07:20 17° m/32'41 -1999 May 30 j 13:59 1° m 24'37 retrograde -1992 Jan 07 j 03:04 19° M 25'22 direct -1999 Aug 29 j 04:41 3° m 20'47 opposition -1992 Mar 25 j 16:26 18° Mp 03'36 2°10'03 evening set min. Earth dist. -1992 Mar 26 j 10:47 18° Mp 02'21 29.32883 AU -1999 Sep 13 j 15:56 3° m 55'16 1°52'50 -1992 Jun 15 j 00:24 16°M 39'15 conjunction direct -1999 Sep 13 j 15:55 3° m 55'16 1°52'51 -1992 Sep 13 j 04:00 18° m 35'12 minimum elong evening set -1999 Sep 12 j 17:10 3° m 53'08 31.31285 AU max. Earth dist. -1999 Sep 29 j 00:06 4°m/29'28 -1992 Sep 28 j 11:35 19° m 09'27 2°02'09 morning rise conjunction -1992 Sep 28 i 11:35 retrograde -1999 Dec 24 i 14:57 6° m 21'36 minimum elong 19° m 09'27 2°02'09 -1992 Sep 27 i 16:25 opposition -1998 Mar 12 j 16:54 4° m 59'48 2°01'30 max. Earth dist. 19° m 07'39 31.32712 AU min. Earth dist. -1998 Mar 13 j 13:26 4° m 58'24 29.31505 AU morning rise -1992 Oct 13 i 16:44 19° m 43'30 direct -1998 Jun 02 i 01:27 3° m 35'01 retrograde -1991 Jan 08 j 14:31 21° m 36'17 evening set -1998 Aug 31 j 14:57 5° m 31'10 opposition -1991 Mar 28 j 04:42 20° m 14'29 2°10'50 max. Earth dist. -1998 Sep 15 j 04:28 6° Mp 03'37 31.31459 AU min. Earth dist. -1991 Mar 28 j 22:24 20° m 13'17 29.32809 AU -1991 Jun 17 j 11:06 18° m 50'10 direct -1998 Sep 16 j 01:46 6° m 05'36 1°54'40 -1991 Sep 15 j 13:51 20° m 46'03 conjunction evening set 6°№05'36 minimum elong -1998 Sep 16 j 01:46 1°54'41 morning rise -1998 Oct 01 j 09:18 6° m 39'47 conjunction -1991 Sep 30 j 21:10 21° m/20'17 2°02'48 retrograde -1998 Dec 27 j 00:32 8° m 31'59 minimum elong -1991 Sep 30 j 21:10 21° m 20'17 2°02'48 opposition -1997 Mar 15 j 04:39 7° m 10'11 2°03'23 max. Earth dist. -1991 Sep 30 j 03:27 21° mp 18'37 31.32552 AU -1997 Mar 16 j 01:33 7° Mp 08'46 29.31731 AU -1991 Oct 16 j 01:48 min. Earth dist. morning rise 21° m 54'18 -1990 Jan 11 j 00:19 direct -1997 Jun 04 j 13:07 5° Mp 45'28 retrograde 23° m 47'10 -1997 Sep 03 j 01:13 22° m/25'19 2°11'26 evening set 7° Mp 41'35 opposition -1990 Mar 30 j 17:06 min. Earth dist. -1990 Mar 31 j 11:02 22° m 24'06 29.32571 AU conjunction -1997 Sep 18 j 11:25 8° m 15'59 1°56'20 direct -1990 Jun 19 j 23:11 21° m 01'01 minimum elong -1997 Sep 18 j 11:24 8° m 15'59 1°56'21 evening set -1990 Sep 17 j 23:53 22° m 56'49 max. Earth dist. -1997 Sep 17 j 14:19 8° Mp 14'01 31.31730 AU morning rise -1997 Oct 03 j 18:36 8° m 50'08 conjunction -1990 Oct 03 j 06:39 23° m 31'01 2°03'16 -1997 Dec 29 j 11:52 -1990 Oct 03 j 06:39 23° m/31'01 2°03'16 retrograde 10° Mp 42'25minimum elong -1996 Mar 16 j 16:21 9° m/20'38 2°05'05 max. Earth dist. -1990 Oct 02 j 12:23 23° m/29'18 31.32253 AU opposition

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 33							
•	nical year style is used: Th		_	` //			
morning rise	-1990 Oct 18 j 11:09	24° Mp 05'02		opposition	-1983 Apr 15 j 07:39	7° ≏ 38'22	2°10'23
retrograde	-1989 Jan 13 j 12:04	25° m 57'58		min. Earth dist.	-1983 Apr 15 j 19:39	7° ≏ 37'34	29.29964 AU
opposition	-1989 Apr 02 j 05:13	24° m) 36'02	2°11'51	direct	-1983 Jul 05 j 10:39	6° £ 14'19	
min. Earth dist.	-1989 Apr 02 j 21:51	-	29.32209 AU	evening set	-1983 Oct 02 j 18:21	8° ഫ 09'34	
direct	-1989 Jun 22 j 10:06	23° m) 11'45		Ü	J		
evening set	-1989 Sep 20 j 09:37	25° mp 07'27		conjunction	-1983 Oct 17 j 22:53	8° ≏ 43'39	2°01'39
				minimum elong	-1983 Oct 17 j 22:53	8° ≏ 43'39	
conjunction	-1989 Oct 05 j 16:08	25° mp 41'38	2°03'34	max. Earth dist.	-1983 Oct 17 j 10:37		31.29729 AU
minimum elong	-1989 Oct 05 j 16:08	25° mp 41'38	2°03'34	morning rise	-1983 Nov 02 j 01:59	9° £ 17'38	
max. Earth dist.	-1989 Oct 04 j 23:01		31.31832 AU	retrograde	-1982 Jan 28 j 13:29	11° Ω 11'16	
morning rise	-1989 Oct 20 j 20:15	26° m 15'38	31.31032110	opposition	-1982 Apr 17 j 20:14		2°09'28
retrograde	-1988 Jan 15 j 22:08	28° mp 08'38		min. Earth dist.	-1982 Apr 18 j 07:04		29.29769 AU
opposition	-1988 Apr 03 j 17:37	26° m) 46'37	2°12'04	direct	-1982 Jul 07 j 20:45	8° ≏ 25'01	
min. Earth dist.	-1988 Apr 04 j 10:45		29.31749 AU	evening set	-1982 Oct 05 j 03:39	10° £ 20'12	
direct	-1988 Jun 23 j 22:18	25° m/22'20	29.817.9110	evening sec	1,02 000 00 , 05.5,	10 -2012	
evening set	-1988 Sep 21 j 19:16	27° m) 17'56		conjunction	-1982 Oct 20 j 08:07	10° ≏ 54'18	2°00'42
max. Earth dist.	-1988 Oct 06 j 08:41		31.31357 AU	minimum elong	-1982 Oct 20 j 08:07	10° ⊆ 54'18	
max. Dartii dist.	1300 000 00 00.11	27 11/20031	31.31337 110	max. Earth dist.	-1982 Oct 19 j 21:41		31.29517 AU
conjunction	-1988 Oct 07 j 01:20	27° m 52'05	2°03'41	morning rise	-1982 Nov 04 j 10:58	11° ≏ 28'16	31.2/31/110
minimum elong	-1988 Oct 07 j 01:20	27° m ₂ 52'05	2°03'41	retrograde	-1981 Jan 30 j 23:41	13° ⊆ 22'04	
morning rise	-1988 Oct 22 j 05:16	28° m/26'04	2 05 41	opposition	-1981 Apr 20 j 08:49	13 = 22 04 11° = 59'46	2°08'22
morning 113C	-1988 Dec 14 j 14:05	20 1 1/ 20 0∓ 0° Ω		min. Earth dist.	-1981 Apr 20 j 19:37		29.29529 AU
retrograde	-1987 Jan 17 j 09:35	0° £ 19'08		direct	-1981 Apr 20 j 19.37	11 ⊆ 39 02 10° ⊆ 35'53	29.29329 AU
renograde	-1987 Feb 21 j 02:49	0 ==1908 30°RM)		evening set	-1981 Oct 07 j 13:07	10 = 33 33 12° £ 31'01	
opposition	-1987 Apr 06 j 05:55	28° Mp 57'02	2012/07	evening set	-1981 Oct 0/ J 15.0/	12 = 31 01	
min. Earth dist.	-1987 Apr 06 j 21:15		29.31264 AU	agniumation	-1981 Oct 22 j 17:15	129 0 05/07	1°59'36
	1 3	-	29.31204 AU	conjunction	•	13° Ω 05'07	
direct	-1987 Jun 26 j 11:51	27° Mp 32'45		minimum elong	-1981 Oct 22 j 17:15	13° Ω 05'07	
evening set	-1987 Sep 24 j 04:51	29° Tp 28'16		max. Earth dist.	-1981 Oct 22 j 06:37		31.29252 AU
	-1987 Oct 08 j 09:06	0∘ ⊽		morning rise	-1981 Nov 06 j 20:09	13° Ω 39'06	
. ,.	1007.0 / 00:10.24	00 0 00104	2002120	retrograde	-1980 Feb 02 j 12:06	15° Ω 33'02	2007107
conjunction	-1987 Oct 09 j 10:34	0° Ω 02'24		opposition	-1980 Apr 21 j 21:29	14° Ω 10'43	
minimum elong	-1987 Oct 09 j 10:34	0° Ω 02'24		min. Earth dist.	-1980 Apr 22 j 06:42		29.29213 AU
max. Earth dist.	-1987 Oct 08 j 18:48		31.30882 AU	direct	-1980 Jul 11 j 17:37	12° Ω 46'54	
morning rise	-1987 Oct 24 j 14:14	0° Ω 36'22		evening set	-1980 Oct 08 j 22:25	14° ≏ 41'59	
retrograde	-1986 Jan 19 j 20:27	2° Ω 29'31	2011150		1000 0 . 04:00 0	15001604	1050110
opposition	-1986 Apr 08 j 18:23	1° Ω 07'21		conjunction	-1980 Oct 24 j 02:26		
min. Earth dist.	-1986 Apr 09 j 09:41		29.30828 AU	minimum elong	-1980 Oct 24 j 02:26		
	-1986 May 26 j 18:45	30°R Mp		max. Earth dist.	-1980 Oct 23 j 16:59		31.28874 AU
direct	-1986 Jun 28 j 23:19	29° m 43'05		morning rise	-1980 Nov 08 j 05:10		
	-1986 Jul 31 j 08:19	0∘ ত		retrograde	-1979 Feb 03 j 23:12	17° ≏ 44'09	
evening set	-1986 Sep 26 j 14:12	1° ≏ 38'31		opposition	-1979 Apr 24 j 10:26	16° ≏ 21'47	
				min. Earth dist.	-1979 Apr 24 j 20:04		29.28775 AU
conjunction	-1986 Oct 11 j 19:40	2° ≏ 12'38		direct	-1979 Jul 14 j 05:20	14° ≏ 58'03	
minimum elong	-1986 Oct 11 j 19:40	2° ≏ 12'38		evening set	-1979 Oct 11 j 07:51	16° ≏ 53'03	
max. Earth dist.	-1986 Oct 11 j 05:19		31.30486 AU				
morning rise	-1986 Oct 26 j 23:06	2° ≏ 46'35		conjunction	-1979 Oct 26 j 11:41	17° ≏ 27'08	
retrograde	-1985 Jan 22 j 05:37	4° Ω 39'50		minimum elong	-1979 Oct 26 j 11:41	17° ≏ 27'08	
opposition	-1985 Apr 11 j 06:44	3° ≏ 17'37		max. Earth dist.	-1979 Oct 26 j 02:40		31.28381 AU
min. Earth dist.	-1985 Apr 11 j 20:15		29.30462 AU	morning rise	-1979 Nov 10 j 14:26	18° ≏ 01'09	
direct	-1985 Jul 01 j 12:14	1° ≏ 53'24		retrograde	-1978 Feb 06 j 11:57	19° ≏ 55'20	
evening set	-1985 Sep 28 j 23:42	3° ≏ 48'45		opposition	-1978 Apr 26 j 23:12	18° ≏ 32'55	
				min. Earth dist.	-1978 Apr 27 j 07:11	18° ≏ 32'23	29.28206 AU
conjunction	-1985 Oct 14 j 04:45	4° ≏ 22'52	2°03'00	direct	-1978 Jul 16 j 18:21	17° ≙ 09'13	
minimum elong	-1985 Oct 14 j 04:45	4° ≏ 22'52	2°02'59	evening set	-1978 Oct 13 j 17:09	19° ≙ 04'09	
max. Earth dist.	-1985 Oct 13 j 14:34	4° ≏ 21'31	31.30165 AU				
morning rise	-1985 Oct 29 j 08:06	4° ≏ 56'49		conjunction	-1978 Oct 28 j 20:52	19° ≏ 38'14	1°55'14
retrograde	-1984 Jan 24 j 16:08	6° ჲ 50'11		minimum elong	-1978 Oct 28 j 20:53	19° ≏ 38'14	1°55'13
opposition	-1984 Apr 12 j 19:04	5° ≏ 27'56	2°11'06	max. Earth dist.	-1978 Oct 28 j 12:15	19° ≏ 37'25	31.27742 AU
min. Earth dist.	-1984 Apr 13 j 08:01	5° ≏ 27'03	29.30188 AU	morning rise	-1978 Nov 12 j 23:41	20° ≏ 12'15	
direct	-1984 Jul 02 j 22:43	4° ≙ 03'47		retrograde	-1977 Feb 08 j 23:50	22° ≏ 06'34	
evening set	-1984 Sep 30 j 09:01	5° ≏ 59'05		opposition	-1977 Apr 29 j 12:07	20° ≏ 44'04	2°02'10
-	- *			min. Earth dist.	-1977 Apr 29 j 20:26	20° ≏ 43'30	29.27502 AU
conjunction	-1984 Oct 15 j 13:57	6° £ 33'11	2°02'24	direct	-1977 Jul 19 j 05:38	19° ≏ 20'23	
minimum elong	-1984 Oct 15 j 13:57	6° Ω 33'11	2°02'24	evening set	-1977 Oct 16 j 02:24	21° ≏ 15'13	
max. Earth dist.	-1984 Oct 15 j 01:44		31.29929 AU		Ÿ		
morning rise	-1984 Oct 30 j 17:00	7° ჲ 07'09		conjunction	-1977 Oct 31 j 06:06	21° ≏ 49'18	1°53'27
retrograde	-1983 Jan 26 j 01:43	9° ഫ 00'39		minimum elong	-1977 Oct 31 j 06:06		
-	,			5	,		

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 34								
Attention, astronom	nical year style is used: Th	ne year -1977 i	in astronomical co	unting style is the year	1978 BCE in historical c	ounting style.		
max. Earth dist.	-1977 Oct 30 j 22:41	21° ≏ 48'36	31.26986 AU	min. Earth dist.	-1970 May 15 j 07:10	6° M 00′16	29.22566 AU	
morning rise	-1977 Nov 15 j 08:51	22° ഫ 23'20		direct	-1970 Aug 03 j 14:07	4°M36'53		
retrograde	-1976 Feb 11 j 09:26	24° ≏ 17'43		evening set	-1970 Oct 30 j 17:35	6° M 31′01		
opposition	-1976 May 01 j 00:50	22° ≏ 55'08	2°00'11					
min. Earth dist.	-1976 May 01 j 07:40		29.26683 AU	conjunction	-1970 Nov 14 j 21:16	7°M05'09		
direct	-1976 Jul 20 j 19:03	21° ≏ 31'28		minimum elong	-1970 Nov 14 j 21:16	7° M 05′09		
evening set	-1976 Oct 17 j 11:38	23° ≏ 26'11		max. Earth dist.	-1970 Nov 14 j 21:06		31.22251 AU	
	107631 01:15.00	240 0 0011 6	1051121	morning rise	-1970 Nov 30 j 01:02	7°M39'20		
conjunction	-1976 Nov 01 j 15:08	24° £ 00'16	1°51'31	retrograde	-1969 Feb 26 j 15:31	9°M34'32	1041120	
minimum elong	-1976 Nov 01 j 15:08	24° Ω 00'16	1°51'30	opposition	-1969 May 17 j 19:05	8°M11'28		
max. Earth dist.	-1976 Nov 01 j 07:42 -1976 Nov 16 j 18:05	23° 22 39'34 24° Ω 34'19	31.26146 AU	min. Earth dist. direct	-1969 May 17 j 18:09	6°M48'05	29.22093 AU	
morning rise retrograde	-1975 Feb 12 j 20:45	24 ≗ 34 19 26° £ 28'47		evening set	-1969 Aug 06 j 01:44 -1969 Nov 02 j 02:43	8°M42'10		
opposition	-1975 May 03 j 13:47	25° £ 06'06	1°58'02	evening set	-1909 NOV 02 J 02.43	0 11642 10		
min. Earth dist.	-1975 May 03 j 20:04		29.25834 AU	conjunction	-1969 Nov 17 j 06:23	9° M .16'19	1°33'36	
direct	-1975 Jul 23 j 06:48	23° Ω 42'26	27.23034710	minimum elong	-1969 Nov 17 j 06:23	9°M16'19		
evening set	-1975 Oct 19 j 20:33	25° £ 37'01		max. Earth dist.	-1969 Nov 17 j 06:45		31.21765 AU	
844	,			morning rise	-1969 Dec 02 j 10:24	9° ™ 50'32		
conjunction	-1975 Nov 04 j 00:10	26° ≏ 11'07	1°49'25	retrograde	-1968 Feb 29 j 04:03	11°M45'53		
minimum elong	-1975 Nov 04 j 00:10	26° ≙ 11'07	1°49'23	opposition	-1968 May 19 j 08:13	10°M22'47	1°38'20	
max. Earth dist.	-1975 Nov 03 j 18:50	26° £ 10'36	31.25301 AU	min. Earth dist.	-1968 May 19 j 07:25	10°M22'50	29.21588 AU	
morning rise	-1975 Nov 19 j 03:04	26° ≏ 45'10		direct	-1968 Aug 07 j 11:55	8°M59'29		
retrograde	-1974 Feb 15 j 06:24	28° ჲ 39'45		evening set	-1968 Nov 03 j 11:51	10°M53'29		
opposition	-1974 May 06 j 02:40	27° ≏ 16'57	1°55'43					
min. Earth dist.	-1974 May 06 j 07:51	27° ≏ 16'36	29.24999 AU	conjunction	-1968 Nov 18 j 15:44	11°M27'40	1°30'28	
direct	-1974 Jul 25 j 19:48	25° ≏ 53'18		minimum elong	-1968 Nov 18 j 15:44	11°M27'40	1°30'26	
evening set	-1974 Oct 22 j 05:41	27° ≏ 47'46		max. Earth dist.	-1968 Nov 18 j 17:35	11°M27'51	31.21235 AU	
				morning rise	-1968 Dec 03 j 19:52	12°M01'55		
conjunction	-1974 Nov 06 j 09:06	28° ≏ 21'51	1°47'10	retrograde	-1967 Mar 02 j 15:30	13°M57'24		
minimum elong	-1974 Nov 06 j 09:07	28° ≏ 21'51	1°47'08	opposition	-1967 May 21 j 21:22	12°M34'15		
max. Earth dist.	-1974 Nov 06 j 03:53		31.24509 AU	min. Earth dist.	-1967 May 21 j 19:02		29.21001 AU	
morning rise	-1974 Nov 21 j 12:17	28° ≙ 55'57		direct	-1967 Aug 10 j 00:59	11°ML11'02		
	-1974 Dec 23 j 13:00	0°M		evening set	-1967 Nov 05 j 21:07	13°M04'58		
retrograde	-1973 Feb 17 j 17:22	0°M50'37		. ,.	10/731 21:00:50	120 M 20110	1007111	
	-1973 Apr 18 j 04:07	30° ₹ Ω	1952112	conjunction	-1967 Nov 21 j 00:58 -1967 Nov 21 j 00:59	13°M39'10	1°27'11	
opposition	-1973 May 08 j 15:19 -1973 May 08 j 19:03	29° £ 27'44	1°53°13 29.24254 AU	minimum elong	-1967 Nov 21 j 00:39 -1967 Nov 21 j 02:34	13°M39'10		
min. Earth dist. direct	-1973 Jul 28 j 06:09	29 ≗ 27 28 28° ₽ 04'06	29.24234 AU	max. Earth dist. morning rise	-1967 Nov 21 j 02.34 -1967 Dec 06 j 05:32	13 IIL39 19 14°M 13'27	31.20599 AU	
evening set	-1973 Oct 24 j 14:39	28 = 04 00 29° £ 58'28		morning rise	-1967 Dec 00 j 05:32 -1967 Dec 28 j 12:57	14 IIC1327		
evening set	-1973 Oct 24 j 14:39	0°M		retrograde	-1966 Mar 05 j 04:35	16°M₀09'05		
	1975 000 25 5 07.15	0 110		retrograde	-1966 May 15 j 16:23	15°RM		
conjunction	-1973 Nov 08 j 18:13	0°M32'34	1°44'45	opposition	-1966 May 24 j 10:39	14°M45'53	1°31'20	
minimum elong	-1973 Nov 08 j 18:13	0°M32'34		min. Earth dist.	-1966 May 24 j 08:02		29.20306 AU	
max. Earth dist.	-1973 Nov 08 j 15:05		31.23811 AU	direct	-1966 Aug 12 j 12:23	13°M22'42		
morning rise	-1973 Nov 23 j 21:22	1°M06'41			-1966 Oct 31 j 15:51	15° M ₊		
retrograde	-1972 Feb 20 j 02:51	3°M01'28		evening set	-1966 Nov 08 j 06:24	15°M16'34		
opposition	-1972 May 10 j 04:16	1°M38'30	1°50'34					
min. Earth dist.	-1972 May 10 j 07:25	1°M38'18	29.23602 AU	conjunction	-1966 Nov 23 j 10:34	15°M50'48	1°23'46	
direct	-1972 Jul 29 j 17:21	0°M14'56		minimum elong	-1966 Nov 23 j 10:34	15°M50'48	1°23'45	
evening set	-1972 Oct 25 j 23:37	2°M09'12		max. Earth dist.	-1966 Nov 23 j 13:47	15°M51'06	31.19834 AU	
				morning rise	-1966 Dec 08 j 15:14	16° M 25′07		
conjunction	-1972 Nov 10 j 03:05	2°M43'19	1°42'11	retrograde	-1965 Mar 07 j 15:18	18°M20'51		
minimum elong	-1972 Nov 10 j 03:05	2°M43'19		opposition	-1965 May 26 j 23:43	16°M57'36		
max. Earth dist.	-1972 Nov 10 j 00:24		31.23224 AU	min. Earth dist.	-1965 May 26 j 20:28		29.19458 AU	
morning rise	-1972 Nov 25 j 06:30	3° ™ 17'27		direct	-1965 Aug 15 j 01:21	15° M 34'28		
retrograde	-1971 Feb 21 j 15:12	5° ™ 12'22		evening set	-1965 Nov 10 j 15:49	17°M28'15		
opposition	-1971 May 12 j 17:10	3°M49'21			10000	100144 0	1000:	
min. Earth dist.	-1971 May 12 j 18:10		29.23052 AU	conjunction	-1965 Nov 25 j 20:00	18°M02'29		
direct	-1971 Aug 01 j 03:19	2°M25'50		minimum elong	-1965 Nov 25 j 20:00	18°M.02'29		
evening set	-1971 Oct 28 j 08:35	4°M20'02		max. Earth dist.	-1965 Nov 25 j 22:51		31.18933 AU	
	107131 10:10:1	40 m = *** *	1020/20	morning rise	-1965 Dec 11 j 01:08	18°M36'50		
conjunction	-1971 Nov 12 j 12:10	4°M.54'10		retrograde	-1964 Mar 09 j 03:16	20°M32'42	1022140	
minimum elong	-1971 Nov 12 j 12:11	4°M54'10	1°39'27	opposition	-1964 May 28 j 12:57	19°M09'22		
max. Earth dist.	-1971 Nov 12 j 10:59	4°IL54'03 5°IL28'19	31.22711 AU	min. Earth dist. direct	-1964 May 28 j 08:44 -1964 Aug 16 j 12:13	19°11609'39 17°11646'14	29.18493 AU	
morning rise retrograde	-1971 Nov 27 j 15:43 -1970 Feb 24 j 02:32	7°M23'23		evening set	-1964 Aug 16 j 12:13 -1964 Nov 12 j 00:55	17°11.46°14 19°11.39'55		
opposition	-1970 Feb 24 j 02:32 -1970 May 15 j 06:10	6°M00'20	1°44'46	evening set	-170+110V 12 J 00.33	17 1163733		
эррозион	17,0 141ay 13 J 00.10	5 HG00 20	1 1170					

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1964 in astronomical counting style is the year 1965 BCE in historical counting style. -1964 Nov 27 i 05:25 20°M14'11 1°16'37 retrograde -1957 Mar 25 j 17:10 5°**₹**55'51 conjunction -1964 Nov 27 j 05:25 20°M14'11 1°16'35 -1957 Jun 14 j 08:41 4°\$\sqrt{32'01} 0°53'54 minimum elong opposition max. Earth dist. -1964 Nov 27 j 09:56 min. Earth dist. -1957 Jun 13 j 21:47 4° ₹ 32'45 29.12092 AU 20°M14'37 31.17915 AU -1964 Dec 12 j 10:44 3°**х** 09′04 20°M48'34 -1957 Sep 01 j 17:52 morning rise direct -1963 Mar 11 j 13:07 -1957 Nov 27 j 17:50 5°**х** 02′15 retrograde 22°M44'32 evening set opposition -1963 May 31 j 02:15 21°M21'06 1°19'51 -1957 Dec 13 j 00:03 min. Earth dist. -1963 May 30 j 21:49 21°M21'24 29.17433 AU conjunction 5°**х** 36′43 0°48'18 -1957 Dec 13 j 00:04 direct -1963 Aug 19 j 00:04 19°M57'59 minimum elong 5°**х** 36'43 0°48'16 evening set -1963 Nov 14 j 10:11 21°M51'33 max. Earth dist. -1957 Dec 13 j 11:46 5°**х** 37'49 31.11716 AU morning rise -1957 Dec 28 j 07:58 6°**∡**11′22 conjunction -1963 Nov 29 j 14:49 22° M $_25'50$ 1°12'52 retrograde -1956 Mar 27 j 04:36 8°×708'11 -1963 Nov 29 j 14:49 -1956 Jun 15 j 21:53 6°**х** 44′19 minimum elong 22° M $_25'50$ 1°12'50 opposition 0°49'14 -1963 Nov 29 j 19:37 -1956 Jun 15 j 10:05 max. Earth dist. 22°M26'18 31.16853 AU min. Earth dist. 6°**≯**45'07 29.11388 AU morning rise -1963 Dec 14 j 20:35 23°M00'15 direct -1956 Sep 03 j 06:18 5°**х** 21′25 retrograde -1962 Mar 14 j 01:40 24°M56'20 evening set -1956 Nov 29 j 03:22 7°**х¹**14'34 opposition -1962 Jun 02 j 15:15 23°M32'48 1°15'47 min. Earth dist. -1962 Jun 02 j 08:59 23°M33'13 29.16365 AU conjunction -1956 Dec 14 j 09:44 7°**∡**¹49'03 0°43'54 direct -1962 Aug 21 j 10:29 22°M09'40 minimum elong -1956 Dec 14 j 09:44 7°**х**⁴49′03 0°43'52 evening set -1962 Nov 16 j 19:23 24°MJ03'09 max. Earth dist. -1956 Dec 14 j 21:19 7°**∡**¹50'09 31.11009 AU morning rise -1956 Dec 29 j 18:13 8°**х** 23′45 10°**∡**¹20'42 conjunction -1962 Dec 02 j 00:15 24°M37'28 1°09'00 retrograde -1955 Mar 29 j 17:41 minimum elong -1962 Dec 02 i 00:15 24°MJ37'28 1°08'58 opposition -1955 Jun 18 j 11:09 8°**∡**756'47 0°44'30 max. Earth dist. -1962 Dec 02 i 06:18 24°M38'02 31.15793 AU min. Earth dist. -1955 Jun 17 j 22:27 8°**҂**757'39 29.10656 AU morning rise -1962 Dec 17 i 06:19 25°M11'55 direct -1955 Sep 05 i 17:16 7°**∡**³33'57 retrograde -1961 Mar 16 j 12:45 27°ML08'06 evening set -1955 Dec 01 j 13:04 9°×27'02 -1961 Jun 05 j 04:25 25°M44'29 1°11'37 opposition -1961 Jun 04 j 22:06 25°M44'54 29.15335 AU -1955 Dec 16 j 19:50 10°**х** 01'34 0°39'27 min. Earth dist. conjunction 24°M21'22 -1955 Dec 16 j 19:51 10°**₹**'01'34 0°39'24 direct -1961 Aug 23 j 21:26 minimum elong -1961 Nov 19 j 04:32 -1955 Dec 17 j 08:51 10°**₹**02'48 31.10230 AU 26°M14'46 max. Earth dist. evening set 10°**∡**³36′18 -1954 Jan 01 j 04:38 morning rise -1961 Dec 04 j 09:38 26°ML49'05 1°05'03 -1954 Apr 01 j 04:43 conjunction retrograde 12°**х** 33′23 -1961 Dec 04 j 09:38 26°M49'05 -1954 Jun 20 j 11:43 1°05'01 min. Earth dist. 11°**尽**10'17 29.09827 AU minimum elong 11°**∡**"09′25 -1961 Dec 04 j 16:57 -1954 Jun 21 j 00:19 max. Earth dist. 26°M49'47 31.14810 AU 0°39'42 opposition -1961 Dec 19 j 16:01 -1954 Sep 08 j 05:32 9°×146'37 morning rise 27°M23'35 direct -1960 Mar 18 j 01:38 -1954 Dec 03 j 22:55 11°**х** 39'39 retrograde 29°M19'53 evening set -1960 Jun 06 j 17:25 opposition 27°ML56'11 1°07'20 -1954 Dec 19 j 05:58 12°**∡**14'12 0°34'55 min. Earth dist. -1960 Jun 06 j 08:56 27°M56'45 29.14390 AU conjunction direct -1960 Aug 25 j 08:34 26°M33'05 minimum elong -1954 Dec 19 j 05:58 12°**∡**14'12 0°34'53 -1960 Nov 20 j 13:51 28° M $_{2}6'25$ max. Earth dist. -1954 Dec 19 j 18:52 12°**҂**15′25 31.09351 AU evening set morning rise -1953 Jan 03 j 15:15 12°**₹**48'59 conjunction -1960 Dec 05 j 19:06 29°ML00'47 1°01'00 retrograde -1953 Apr 03 j 18:16 14°**∡**¹46'11 -1960 Dec 05 j 19:06 29°ML00'47 1°00'58 -1953 Jun 23 j 13:30 13°**∡**′22'09 0°34'50 minimum elong opposition max. Earth dist. -1960 Dec 06 j 03:04 29°M01'32 31.13918 AU min. Earth dist. -1953 Jun 22 j 23:32 13°**✗**23'06 29.08878 AU -1960 Dec 21 j 01:56 29°M35'18 -1953 Sep 10 j 16:43 11°**х** 59′21 morning rise direct -1959 Jan 01 j 11:56 -1953 Dec 06 j 08:45 13°**∡** 52′20 0°**∡**7 evening set retrograde -1959 Mar 20 j 14:23 1°**х** 31′45 -1953 Dec 21 i 16:06 14°**∡**⁷26′54 0°30′21 opposition -1959 Jun 09 i 06:37 0°**х** 07'59 1°02'57 conjunction min. Earth dist. -1959 Jun 08 j 21:58 0° **₹**08'34 29.13555 AU minimum elong -1953 Dec 21 i 16:06 14°**₹**26'54 0°30'18 -1959 Jun 14 i 04:29 30°RM max. Earth dist. -1953 Dec 22 i 05:37 14° ₹28'11 31.08325 AU direct -1959 Aug 27 j 17:52 28°M44'55 morning rise -1952 Jan 06 i 01:48 15°**₹**'01'43 -1959 Nov 04 j 21:10 0°×7 -1952 Apr 05 j 04:57 16°**₹** 59'02 retrograde -1959 Nov 22 j 22:59 0°**х** 38′12 -1952 Jun 25 j 02:52 15°**∡**'34'55 0°29'55 evening set opposition min. Earth dist. -1952 Jun 24 j 13:23 15° ₹35'50 29.07786 AU conjunction -1959 Dec 08 j 04:39 1°**х** 12'35 0°56'51 direct -1952 Sep 12 j 03:44 14°**х** 12′06 minimum elong -1959 Dec 08 j 04:39 1°**∡**12'35 0°56'49 evening set -1952 Dec 07 j 18:38 16°**₹**05'00 max. Earth dist. -1959 Dec 08 j 14:28 1°**尽**13'31 31.13134 AU -1959 Dec 23 j 11:46 1°**х** 47′09 conjunction -1952 Dec 23 j 02:24 16°**х** 39'36 0°25'44 morning rise -1958 Mar 23 j 02:41 3°**х** 43′43 -1952 Dec 23 j 02:24 16°**х** 39'36 0°25'42 retrograde minimum elong -1958 Jun 11 j 19:39 2°**∡**19'54 0°58'28 -1952 Dec 23 j 16:42 16° **₹**40'57 31.07189 AU opposition max. Earth dist. 2°**∡**°20'37 29.12795 AU -1951 Jan 07 j 12:30 17°**∡**14'27 min. Earth dist. -1958 Jun 11 j 09:11 morning rise -1951 Apr 07 j 17:32 19°**∡**11'51 direct -1958 Aug 30 j 06:52 0°**х** 56′55 retrograde evening set -1958 Nov 25 j 08:27 2°**х** 50′08 opposition -1951 Jun 27 j 15:59 17°**∡**¹47'37 0°24'57 min. Earth dist. -1951 Jun 27 j 00:57 17°**∡** 48'39 29.06594 AU conjunction -1958 Dec 10 j 14:14 3°**х** 24'34 0°52'37 direct -1951 Sep 14 j 15:02 16°**х** 24'46 minimum elong -1958 Dec 10 j 14:15 3°**҂**24'34 0°52'35 evening set -1951 Dec 10 j 04:33 18°**х** 17′36 max. Earth dist. -1958 Dec 10 j 23:59 3°**₹**25'29 31.12409 AU -1958 Dec 25 j 21:55 3°**х** 59′10 -1951 Dec 25 j 12:34 18°**₹** 52'14 0°21'05 morning rise conjunction

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1951 in astronomical counting style is the year 1952 BCE in historical counting style. -1951 Dec 25 i 12:34 18°**∡** 52'14 0°21'02 min. Earth dist. -1945 Jul 11 i 02:56 1°る04'42 29.00220 AU minimum elong 18°**₹**53'35 31.05961 AU -1951 Dec 26 j 02:57 -1945 Aug 24 j 16:56 30°R*X* max. Earth dist. -1950 Jan 09 j 23:16 19°**х** 27′07 -1945 Sep 28 j 11:40 29°**х** 40′32 direct morning rise 21°**×**⁷24'36 -1945 Nov 01 j 04:57 0°궁 -1950 Apr 10 j 06:12 retrograde -1950 Jun 30 j 05:11 20°**₹**00'15 0°19'58 -1945 Dec 23 j 16:43 1°る33'09 opposition evening set -1950 Jun 29 j 14:32 min. Earth dist. 20°**尽**01'15 29.05353 AU -1944 Jan 08 j 02:58 direct -1950 Sep 17 j 00:48 18°**∡**37'22 conjunction 2°る07'58 -0°07'22 20°**х** 30′07 -1944 Jan 08 j 02:57 evening set -1950 Dec 12 j 14:25 minimum elong 2°**る**07'58 0°07'24 -1944 Jan 07 j 21:04 behind sun begin 2°る07'26 21°**х** 04′47 0°16′24 conjunction -1950 Dec 27 j 22:55 behind sun end -1944 Jan 08 j 08:51 2°る08'30 minimum elong -1950 Dec 27 j 22:55 21°×704'47 0°16'21 max. Earth dist. -1944 Jan 08 j 22:38 2°る09'50 30.99829 AU -1950 Dec 28 j 14:53 21°**x** 06'17 31.04720 AU -1944 Jan 23 j 16:20 2°る43'06 max. Earth dist. morning rise -1944 Apr 23 j 12:53 4°る41'10 morning rise -1949 Jan 12 j 09:54 21°**х** 39'42 retrograde -1944 Jul 13 j 10:42 retrograde -1949 Apr 12 j 18:38 23°**∡**37'15 opposition 3°る16'28 -0°10'24 opposition -1949 Jul 02 j 18:02 22°**∡**12'49 0°14'56 min. Earth dist. -1944 Jul 12 j 14:18 3°る17'52 28.99483 AU min. Earth dist. -1949 Jul 02 j 01:49 22°**҂**13'55 29.04124 AU direct -1944 Sep 29 j 22:42 1°る53'37 direct -1949 Sep 19 j 13:47 20°**х** 49′53 evening set -1944 Dec 25 j 03:08 3°**る**46'15 evening set -1949 Dec 15 j 00:27 22°**х** 42'35 conjunction -1943 Jan 09 j 13:43 4°る21'07 -0°12'05 conjunction -1949 Dec 30 j 09:08 23°**∡**17'17 0°11'42 minimum elong -1943 Jan 09 j 13:43 4°**ප**21'07 0°12'08 minimum elong -1949 Dec 30 j 09:08 23°**∡**17'17 0°11'39 behind sun begin -1943 Jan 09 j 09:19 4°る20'43 behind sun begin -1949 Dec 30 i 04:31 23°×16'52 behind sun end -1943 Jan 09 i 18:07 4°る21'31 behind sun end -1949 Dec 30 j 13:44 23°×17'42 max. Earth dist. -1943 Jan 10 j 10:09 4°る23'03 30.99103 AU max. Earth dist. -1949 Dec 31 i 00:56 23° ₹ 18'46 31.03526 AU morning rise -1943 Jan 25 i 03:35 4°る56'17 morning rise -1948 Jan 14 j 20:44 23°×752'14 retrograde -1943 Apr 25 j 23:57 6°る54'29 -1948 Apr 14 j 09:09 25°×749'52 -1943 Jul 15 j 23:38 5°₹29'46 -0°15'28 retrograde opposition opposition -1948 Jul 04 j 07:07 24°×25'20 0°09'54 -1943 Jul 15 j 03:45 5°る31'08 28.98774 AU min. Earth dist. -1948 Jul 03 j 14:28 24°**∡**¹26′28 29.02985 AU -1943 Oct 02 j 09:07 4°**ප**06'58 min. Earth dist. direct -1948 Sep 21 j 00:24 -1943 Dec 27 j 13:40 5°**る**59'36 23°**₹**02'23 evening set direct -1948 Dec 16 j 10:17 24°**₹**55'03 evening set -1942 Jan 12 j 00:45 6°る34'30 -0°16'49 conjunction 25°**х** 29′46 -1948 Dec 31 j 19:28 -1942 Jan 12 j 00:44 conjunction 0°07'00 minimum elong 6°る34'30 0°16'51 -1948 Dec 31 j 19:29 -1942 Jan 12 j 21:57 25°**х** 29'47 0°06'57 max. Earth dist. 6°る36'30 30.98395 AU minimum elong -1948 Dec 31 j 13:31 25°**₹**29'14 -1942 Jan 27 j 15:00 7°る09'43 behind sun begin morning rise 9°る08'02 -1947 Jan 01 j 01:27 25°**х** 30′19 -1942 Apr 28 j 13:11 behind sun end retrograde 7°る43'18 -0°20'31 -1947 Jan 01 j 13:19 -1942 Jul 18 j 12:27 max. Earth dist. 25°**✗**31'27 31.02435 AU opposition -1947 Jan 16 j 07:23 -1942 Jul 17 j 15:14 7°る44'46 28.98044 AU morning rise 26°**х** 04'47 min. Earth dist. retrograde -1947 Apr 16 j 20:48 28°**х** 02'30 direct -1942 Oct 04 j 19:49 6°る20'31 opposition -1947 Jul 06 j 20:05 26°**∡**137'54 0°04'50 evening set -1942 Dec 30 j 00:30 8°る13'11 min. Earth dist. -1947 Jul 06 j 02:23 26°**✗**39'07 29.01948 AU -1947 Sep 23 j 12:39 25°**х** 14'57 conjunction -1941 Jan 14 j 11:47 8°る48'06 -0°21'31 direct -1947 Dec 18 j 20:27 27°**х**⁴07'36 -1941 Jan 14 j 11:47 8°る48'06 0°21'34 evening set minimum elong max. Earth dist. -1941 Jan 15 j 08:41 8°る50'05 30.97623 AU -1946 Jan 03 j 05:54 27°**∡**¹42'21 0°02'15 -1941 Jan 30 j 02:35 9°**ප**23'21 conjunction morning rise -1946 Jan 03 j 05:54 27°**∡**¹42'21 -1941 May 01 j 02:11 11°る21'47 minimum elong 0°02'13 retrograde -1946 Jan 02 j 23:28 27°**х** 41'46 -1941 Jul 20 i 04:59 9°る58'26 28.97243 AU behind sun begin min. Earth dist. 9°**ප**57'02 -0°25'32 behind sun end -1946 Jan 03 j 12:19 27°**х** 42′56 opposition -1941 Jul 21 i 01:22 -1946 Jan 03 i 23:41 27°**₹**44'02 31.01464 AU max. Earth dist. direct -1941 Oct 07 i 04:57 8°**궁**34'14 28°**х** 17′24 morning rise -1946 Jan 18 j 18:25 evening set -1940 Jan 01 j 11:19 10°る26'55 -1946 Mar 19 i 17:11 0°궁 conjunction -1946 Apr 19 j 10:49 0°**궁**15'13 -1940 Jan 16 i 23:09 11°る01'52 -0°26'11 retrograde -1946 May 20 j 17:28 30°R*X* minimum elong -1940 Jan 16 i 23:09 11°る01'52 0°26'14 max. Earth dist. desc. node -1946 Jun 21 j 18:10 29°**х** 18′55 -1940 Jan 17 j 21:07 11°る03'57 30.96774 AU -1946 Jul 09 j 08:52 -1940 Feb 01 j 14:15 11°**る**37'09 opposition 28° \$\square\$ 50'34 -0°00'15 morning rise 28°**₹**51'51 29.01039 AU min. Earth dist. -1946 Jul 08 j 14:12 retrograde -1940 May 02 j 15:15 13°る35'40 -1940 Jul 22 j 14:16 27°**∡**¹27'38 direct -1946 Sep 25 j 23:31 opposition 12°る10'52 -0°30'31 -1946 Dec 21 j 06:34 29°**х** 20′16 min. Earth dist. -1940 Jul 21 j 16:50 12°る12'21 28.96339 AU evening set -1940 Oct 08 j 17:43 10°る48'04 direct -1945 Jan 05 j 16:28 29° \$\square\$ 55'04 -0°02'37 -1939 Jan 02 j 22:16 12°る40'44 conjunction evening set -1945 Jan 05 j 16:29 29°**х** 55'04 minimum elong 0°02'40 -1945 Jan 05 j 10:03 29°**х** 54′29 -1939 Jan 18 j 10:22 13°る15'43 -0°30'50 behind sun begin conjunction behind sun end -1945 Jan 05 j 22:54 29° 🖍 55'39 minimum elong -1939 Jan 18 j 10:22 13°る15'43 0°30'52 max. Earth dist. -1945 Jan 06 j 11:51 29°**₰**56'54 31.00598 AU max. Earth dist. -1939 Jan 19 j 07:27 13°る17'43 30.95821 AU -1945 Jan 07 j 20:30 0°ಕ morning rise -1939 Feb 03 j 02:07 13°る51'02 morning rise -1945 Jan 21 j 05:21 0°る30'09 retrograde -1939 May 05 j 05:58 15°**る**49'38 -1945 Apr 21 j 22:51 2°る28'06 -1939 Jul 24 j 06:09 14°る26'12 28.95347 AU retrograde min. Earth dist. -1945 Jul 11 j 21:48 1°る03'25 -0°05'19 -1939 Jul 25 j 03:13 14°る24'45 -0°35'28 opposition opposition

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -1939 in astronomical counting style is the year 1940 BCE in historical counting style. direct -1939 Oct 11 i 03:55 13°る01'54 -1932 Mar 05 i 20:43 0°≈ -1938 Jan 05 j 09:14 14°る54'33 -1932 May 21 j 01:18 1°≈26'21 evening set retrograde -1932 Aug 09 j 19:07 0°≈01'04 -1°08'10 opposition -1938 Jan 20 j 21:54 min. Earth dist. -1932 Aug 08 j 19:37 15°る29'34 -0°35'25 0°≈02'42 28.89599 AU conjunction -1938 Jan 20 j 21:54 15°る29'34 0°35'27 -1932 Aug 10 j 10:33 minimum elong 30°Rる -1938 Jan 21 j 20:18 -1932 Oct 26 j 12:08 28°る38'00 max. Earth dist. 15°る31'41 30.94786 AU direct -1931 Jan 06 j 06:42 -1938 Feb 05 j 13:58 morning rise 16°る04'55 0°22 -1931 Jan 20 j 15:49 retrograde -1938 May 07 j 17:56 18°**る**03'33 evening set 0°≈30'41 opposition -1938 Jul 27 j 15:49 16°る38'36 -0°40'21 1°≈05'53 -1°05'45 min. Earth dist. -1938 Jul 26 j 18:22 16°る40'04 28.94286 AU conjunction -1931 Feb 05 j 07:18 direct -1938 Oct 13 j 15:59 15°る15'41 minimum elong -1931 Feb 05 j 07:18 1°≈05'52 1°05'48 -1937 Jan 07 j 20:20 17°**る**08'19 -1931 Feb 06 j 09:06 evening set max. Earth dist. 1°≈08'19 30.89326 AU -1931 Feb 21 j 02:28 morning rise 1°**≈**41′26 conjunction -1937 Jan 23 j 09:16 17°る43'21 -0°39'58 retrograde -1931 May 23 j 13:56 3°≈40'26 minimum elong -1937 Jan 23 j 09:16 17°る43'21 0°40'00 min. Earth dist. -1931 Aug 11 j 07:01 2°≈16'51 28.89198 AU max. Earth dist. -1937 Jan 24 j 07:07 17°る45'25 30.93726 AU opposition -1931 Aug 12 j 07:30 2°≈15′09 -1°12'30 morning rise -1937 Feb 08 j 01:56 18°る18'44 direct -1931 Oct 29 j 00:05 0°≈52'06 retrograde -1937 May 10 j 08:57 20°る17'24 evening set -1930 Jan 23 j 03:43 2°≈44'50 min. Earth dist. -1937 Jul 29 j 06:35 18°る53'52 28.93245 AU opposition -1937 Jul 30 j 04:31 18°る52'21 -0°45'10 conjunction -1930 Feb 07 j 19:27 3°≈20'03 -1°09'45 direct -1937 Oct 16 j 03:43 17°る29'24 minimum elong -1930 Feb 07 j 19:26 3°≈20'03 1°09'47 evening set -1936 Jan 10 j 07:14 19°る22'00 max. Earth dist. -1930 Feb 08 i 20:17 3°≈22'24 30.88941 AU morning rise -1930 Feb 23 i 15:10 3°≈55'39 conjunction -1936 Jan 25 i 20:38 19°る57'04 -0°44'27 retrograde -1930 May 26 i 04:06 5°≈54'43 -1936 Jan 25 j 20:38 19°る57'04 0°44'29 opposition -1930 Aug 14 j 19:51 4°≈29'27 -1°16'44 minimum elong max. Earth dist. -1936 Jan 26 j 19:49 19°る59'16 30.92696 AU min. Earth dist. -1930 Aug 13 j 19:58 4°≈31'07 28.88832 AU -1936 Feb 10 j 13:38 20°る32'29 -1930 Oct 31 j 09:19 3°≈06'24 morning rise direct -1936 May 11 j 21:38 22°る31'11 -1929 Jan 25 j 15:36 4°≈59'12 retrograde evening set 21°**ට**06'03 -0°49'56 -1936 Jul 31 j 17:12 opposition -1936 Jul 30 j 19:18 21°る07'34 28.92262 AU -1929 Feb 10 j 07:52 5°≈34'28 -1°13'39 min. Earth dist. conjunction -1936 Oct 17 j 16:38 -1929 Feb 10 j 07:52 19°**る**43'03 minimum elong 5°≈34'28 1°13'42 direct -1935 Jan 11 j 18:23 -1929 Feb 11 j 09:48 21°**る**35'38 max. Earth dist. 5°≈36'55 30.88555 AU evening set -1929 Feb 26 j 03:49 morning rise 6°≈10′05 -1935 Jan 27 j 08:11 22°る10'44 -0°48'52 -1929 May 28 j 17:02 8°≈09'12 conjunction retrograde -1935 Jan 27 j 08:10 22°る10'44 0°48'54 -1929 Aug 16 j 08:15 minimum elong min. Earth dist. 6°≈45'38 28.88425 AU -1935 Jan 28 j 07:26 22°る12'56 30.91772 AU -1929 Aug 17 j 08:14 max. Earth dist. opposition 6°≈43'58 -1°20'50 -1935 Feb 12 j 01:40 -1929 Nov 02 j 20:55 morning rise 22°**る**46'10 direct 5°≈20'55 retrograde -1935 May 14 j 11:31 24°る44'55 evening set -1928 Jan 28 j 03:39 7°≈13'47 min. Earth dist. -1935 Aug 02 j 06:28 23°る21'19 28.91405 AU opposition -1935 Aug 03 j 05:38 23°る19'43 -0°54'37 conjunction -1928 Feb 12 j 20:11 7°≈49'03 -1°17'27 direct -1935 Oct 20 j 04:08 21°る56'40 minimum elong -1928 Feb 12 j 20:11 7°≈49'03 1°17'28 -1934 Jan 14 j 05:39 23°る49'16 max. Earth dist. -1928 Feb 13 j 21:02 7°≈51'24 30.88117 AU evening set -1928 Feb 28 j 16:42 8°≈24'42 morning rise -1934 Jan 29 j 19:49 24°る24'23 -0°53'12 -1928 May 30 j 08:37 10°≈23'53 conjunction retrograde -1934 Jan 29 j 19:49 24°る24'23 0°53'14 -1928 Aug 18 j 20:44 8°≈58'38 -1°24'49 minimum elong opposition -1934 Jan 30 j 19:39 max. Earth dist. 24°る26'38 30.90963 AU min. Earth dist. -1928 Aug 17 j 20:53 9°≈00'17 28.87952 AU morning rise -1934 Feb 14 i 13:46 24°る59'51 direct -1928 Nov 04 i 08:19 7°≈35'34 retrograde -1934 May 16 j 23:07 26°る58'39 evening set -1927 Jan 29 j 15:54 9°≈28'29 opposition -1934 Aug 05 j 18:12 25°る33'24 -0°59'13 min. Earth dist. -1934 Aug 04 j 19:29 25°る34'59 28.90673 AU -1927 Feb 14 i 08:56 10°≈03'48 -1°21'07 conjunction direct -1934 Oct 22 j 15:16 24°る10'20 minimum elong -1927 Feb 14 i 08:56 10°≈03'48 1°21'09 -1933 Jan 16 j 16:53 26°**る**02'57 max. Earth dist. -1927 Feb 15 i 10:19 10°≈06'11 30.87579 AU evening set -1927 Mar 02 j 05:45 10°≈39'28 morning rise conjunction -1933 Feb 01 j 07:31 26°る38'05 -0°57'28 retrograde -1927 Jun 01 j 21:49 12°≈38'41 minimum elong -1933 Feb 01 j 07:31 26°**ප**38'05 0°57'31 min. Earth dist. -1927 Aug 20 j 10:01 11°≈15'00 28.87368 AU max. Earth dist. -1933 Feb 02 j 08:12 26°る40'25 30.90299 AU opposition -1927 Aug 21 j 09:03 11°≈13'24 -1°28'41 -1933 Feb 17 j 01:49 27°る13'35 direct -1927 Nov 06 j 20:56 9°≈50'19 morning rise -1933 May 19 j 12:53 29°る12'26 -1926 Feb 01 j 04:13 retrograde evening set 11°≈43'15 -1933 Aug 07 j 06:23 27°る48'51 28.90074 AU min. Earth dist. -1933 Aug 08 j 06:33 27°る47'10 -1°03'45 -1926 Feb 16 j 21:41 opposition conjunction 12°≈18'35 -1°24'40 -1933 Oct 25 j 02:44 26°**පි**24'06 -1926 Feb 16 j 21:40 direct minimum elong 12°≈18'35 1°24'41 evening set -1932 Jan 19 j 04:23 28°**る**16'44 max. Earth dist. -1926 Feb 17 j 22:12 12°≈20'54 30.86956 AU morning rise -1926 Mar 04 j 18:58 12°≈54'17 conjunction -1932 Feb 03 j 19:17 28°る51'54 -1°01'40 retrograde -1926 Jun 04 j 12:31 14°≈53'30 minimum elong -1932 Feb 03 j 19:17 28°**ප**51'54 1°01'41 opposition -1926 Aug 23 j 21:17 13°≈28'12 -1°32'25 -1932 Feb 04 j 19:50 28°る54'13 30.89757 AU min. Earth dist. -1926 Aug 22 j 21:47 13°≈29'50 28.86709 AU max. Earth dist. -1932 Feb 19 j 14:08 29°る27'26 -1926 Nov 09 j 08:53 12°≈05'03 morning rise direct

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 38

•	•		•	* **	st AG 18-Feb-2025		page 38
		-	n astronomical cou		1926 BCE in historical c		
evening set	-1925 Feb 03 j 16:33	13° ≈ 58′01		max. Earth dist.	-1919 Mar 05 j 16:10		30.83570 AU
				morning rise	-1919 Mar 20 j 16:09	28° ≈ 37'42	
conjunction	-1925 Feb 19 j 10:21	14° ≈ 33'23	-1°28'05		-1919 May 03 j 02:03	0°) €	
minimum elong	-1925 Feb 19 j 10:20	14° ≈ 33'23	1°28'08	retrograde	-1919 Jun 20 j 07:26	0°) 36′52	
max. Earth dist.	-1925 Feb 20 j 10:50	14° ≈ 35'42	30.86257 AU		-1919 Aug 08 j 16:40	30° R ≈	
	-1925 Mar 03 j 05:38	15° ≈		min. Earth dist.	-1919 Sep 07 j 10:19	29°≈13'02	28.83663 AU
morning rise	-1925 Mar 07 j 08:01	15° ≈ 09'06		opposition	-1919 Sep 08 j 08:58	29° ≈ 11'27	
retrograde	-1925 Jun 07 j 01:05	17° ≈ 08'19		direct	-1919 Nov 24 j 14:47	27° ≈ 48'01	
min. Earth dist.	-1925 Aug 25 j 11:06		28.86009 AU	evening set	-1918 Feb 19 j 08:43	29° ≈ 41'20	
				evening set	3		
opposition	-1925 Aug 26 j 09:32	15° ≈ 42'58	-1-3000		-1918 Feb 27 j 18:09	0°) €	
	-1925 Sep 22 j 06:37	15°R≈					
direct	-1925 Nov 11 j 20:46	14° ≈ 19'46		conjunction	-1918 Mar 07 j 05:31	0°) 16′51	
	-1925 Dec 30 j 16:36	15° ≈		minimum elong	-1918 Mar 07 j 05:31	0° ∺ 16'51	1°48'03
evening set	-1924 Feb 06 j 04:52	16° ≈ 12'45		max. Earth dist.	-1918 Mar 08 j 06:17	0° ₩ 19'11	30.83507 AU
				morning rise	-1918 Mar 23 j 05:48	0°) 52′43	
conjunction	-1924 Feb 21 j 23:11	16° ≈ 48'08	-1°31'22	retrograde	-1918 Jun 22 j 20:02	2°) 51′53	
minimum elong	-1924 Feb 21 j 23:11	16° ≈ 48'08	1°31'24	opposition	-1918 Sep 10 j 20:47	1° ¥ 26′29	-1°56'45
max. Earth dist.	-1924 Feb 22 j 23:53	16°≈50'28	30.85572 AU	min. Earth dist.	-1918 Sep 09 j 22:56	1° ¥ 28'01	28.83628 AU
morning rise	-1924 Mar 08 j 21:11	17° ≈ 23'53		direct	-1918 Nov 27 j 02:35	0°) €03'03	
retrograde	-1924 Jun 08 j 15:51	19° ≈ 23'05		evening set	-1917 Feb 21 j 21:42	1° ¥ 56′27	
	•		1920127	evening set	-1917 PCU 21 j 21.42	1 /(302/	
opposition	-1924 Aug 27 j 21:32	17°≈57'41			101716 00:10.51	201/21150	1050115
min. Earth dist.	-1924 Aug 26 j 22:11		28.85348 AU	conjunction	-1917 Mar 09 j 18:51	2°) (31′59	
direct	-1924 Nov 13 j 09:06	16° ≈ 34'25		minimum elong	-1917 Mar 09 j 18:51	2° ∺ 31′59	
evening set	-1923 Feb 07 j 17:22	18° ≈ 27′26		max. Earth dist.	-1917 Mar 10 j 18:39	2°) 34'14	30.83488 AU
				morning rise	-1917 Mar 25 j 19:32	3°) €07'52	
conjunction	-1923 Feb 23 j 11:58	19° ≈ 02'51	-1°34'31	retrograde	-1917 Jun 25 j 11:10	5°) €07'02	
minimum elong	-1923 Feb 23 j 11:58	19° ≈ 02'51	1°34'34	min. Earth dist.	-1917 Sep 12 j 10:27	3°) 43′13	28.83610 AU
max. Earth dist.	-1923 Feb 24 j 12:09	19° ≈ 05'08	30.84933 AU	opposition	-1917 Sep 13 j 08:32	3°) 41'40	-1°59'02
morning rise	-1923 Mar 11 j 10:30	19° ≈ 38'37		direct	-1917 Nov 29 j 14:09	2°) 18'13	
retrograde	-1923 Jun 11 j 03:27	21° ≈ 37'48		evening set	-1916 Feb 24 j 10:59	4°) (11'41	
C	•		28.84766 AU	evening set	-1910 PCU 24 j 10.39	4 /(1141	
min. Earth dist.	-1923 Aug 29 j 11:21				1016 M 11:00 20	40 1/ 47/14	1052110
opposition	-1923 Aug 30 j 09:39	20°≈12'22	-1*42'44	conjunction	-1916 Mar 11 j 08:30	4°) (47'16	
direct	-1923 Nov 15 j 19:19	18° ≈ 49'03		minimum elong	-1916 Mar 11 j 08:30	4°) 47'16	
evening set	-1922 Feb 10 j 05:51	20° ≈ 42'07		max. Earth dist.	-1916 Mar 12 j 07:57		30.83440 AU
				morning rise	-1916 Mar 27 j 09:31	5° ¥ 23′10	
conjunction	-1922 Feb 26 j 01:01	21° ≈ 17'32	-1°37'32	retrograde	-1916 Jun 27 j 00:49	7°) €22'18	
minimum elong	-1922 Feb 26 j 01:01	21° ≈ 17'32	1°37'33	opposition	-1916 Sep 14 j 20:21	5° ¥ 56'57	-2°01'09
max. Earth dist.	-1922 Feb 27 j 02:04	21° ≈ 19'54	30.84399 AU	min. Earth dist.	-1916 Sep 13 j 23:47	5°) 58′24	28.83540 AU
morning rise	-1922 Mar 13 j 23:46	21° ≈ 53'19		direct	-1916 Dec 01 j 02:26	4°) €33'28	
retrograde	-1922 Jun 13 j 15:27	23° ≈ 52'30		evening set	-1915 Feb 26 j 00:19	6°) €27'00	
opposition	-1922 Sep 01 j 21:23	22° ≈ 27'02	-1°45'52		.,	• /(=/ **	
min. Earth dist.	-1922 Aug 31 j 22:17		28.84292 AU	conjunction	-1915 Mar 13 j 22:21	7° ¥ 02'36	1054111
			20.04292 AU	3	-	7° ∺ 02'36	
direct	-1922 Nov 18 j 07:23	21°≈03'41		minimum elong	-1915 Mar 13 j 22:21		
evening set	-1921 Feb 12 j 18:30	22° ≈ 56'48		max. Earth dist.	-1915 Mar 14 j 21:11		30.83333 AU
				morning rise	-1915 Mar 29 j 23:41	7°) 38′31	
conjunction	-1921 Feb 28 j 13:54	23° ≈ 32'14	-1°40'23	retrograde	-1915 Jun 29 j 15:50	9°) 37′36	
minimum elong	-1921 Feb 28 j 13:54	23° ≈ 32'14	1°40'25	min. Earth dist.	-1915 Sep 16 j 11:11	8°) 13'44	28.83380 AU
max. Earth dist.	-1921 Mar 01 j 13:55	23° ≈ 34'30	30.83987 AU	opposition	-1915 Sep 17 j 08:03	8° 升 12′16	-2°03'04
morning rise	-1921 Mar 16 j 13:11	24° ≈ 08'02		direct	-1915 Dec 03 j 15:42	6°) 48'44	
retrograde	-1921 Jun 16 j 04:48	26°≈07'13		evening set	-1914 Feb 28 j 13:51	8°) 42′20	
min. Earth dist.	-1921 Sep 03 j 10:47	24°≈43'20	28.83962 AU	Č	,		
opposition	-1921 Sep 04 j 09:22	24° ≈ 41'45		conjunction	-1914 Mar 16 j 12:10	9°){ 17'57	-1°55'54
direct	-1921 Nov 20 j 16:18	23°≈18'21	1 1001	minimum elong	-1914 Mar 16 j 12:10	9°) (17′57	
				_			
evening set	-1920 Feb 15 j 06:57	25°≈11'32		max. Earth dist.	-1914 Mar 17 j 09:44		30.83113 AU
				morning rise	-1914 Apr 01 j 13:55	9° ¥ 53'53	
conjunction	-1920 Mar 02 j 02:56	25° ≈ 47'00		retrograde	-1914 Jul 02 j 04:04	11°) 52'53	
minimum elong	-1920 Mar 02 j 02:56	25° ≈ 47'00	1°43'06	opposition	-1914 Sep 19 j 19:44	10° ¥ 27'33	
max. Earth dist.	-1920 Mar 03 j 04:07	25° ≈ 49′22	30.83716 AU	min. Earth dist.	-1914 Sep 19 j 00:35		28.83124 AU
morning rise	-1920 Mar 18 j 02:26	26° ≈ 22'49		direct	-1914 Dec 06 j 02:35	9° ∺ 03'57	
retrograde	-1920 Jun 17 j 17:02	28° ≈ 22'00		evening set	-1913 Mar 03 j 03:12	10°) 57′34	
opposition	-1920 Sep 05 j 21:13	26° ≈ 56'33	-1°51'39	-	•		
min. Earth dist.	-1920 Sep 04 j 22:24		28.83752 AU	conjunction	-1913 Mar 19 j 02:06	11°) 33'12	-1°57'26
direct	-1920 Nov 22 j 03:55	25°≈33'08		minimum elong	-1913 Mar 19 j 02:06	11°) 33'12	
evening set	-1919 Feb 16 j 19:48	27°≈26'22		max. Earth dist.	-1913 Mar 19 j 23:47		30.82828 AU
evening set	1717160 10 17.48	∠; ~ ~∠0∠∠			-	12° H 09'09	50.02020 AU
	1010 M 04:16.66	20001152	1045120	morning rise	-1913 Apr 04 j 04:03		
conjunction	-1919 Mar 04 j 16:06	28°≈01'52		retrograde	-1913 Jul 04 j 17:08	14°) €08'04	20.02012
minimum elong	-1919 Mar 04 j 16:06	28°≈01'52	1~45.40	min. Earth dist.	-1913 Sep 21 j 11:53	12° 大 44'04	28.82812 AU

Dlanatary Dhan	amana of Nantuna d	From 2400	through 1900	(III) Astrodion	at AC 19 Eab 2025	14.22	maga 20
•	omena of Neptune 1 nical year style is used: Th		_	. //			page 39
opposition	-1913 Sep 22 j 07:14	12°) 42'42		morning rise	-1906 Apr 20 j 07:42	27° H 53'36	
direct	-1913 Dec 08 j 15:24	11°) 19'02	-2 00 20	retrograde	-1906 Jul 20 j 11:24	29° X 51'56	
evening set	-1912 Mar 04 j 16:36	13°) 12'41		opposition	-1906 Oct 07 j 13:39	28° H 26'42	-2°11'38
evening see	1912 11111 019 10.50	15 /(12 11		min. Earth dist.	-1906 Oct 06 j 21:10		28.82870 AU
conjunction	-1912 Mar 20 j 15:46	13°) 48′20	-1°58'47	direct	-1906 Dec 24 j 00:34	27°) 02'42	
minimum elong	-1912 Mar 20 j 15:46	13°) 48′20		evening set	-1905 Mar 21 j 15:36	28° ¥ 56'50	
max. Earth dist.	-1912 Mar 21 j 11:51		30.82509 AU	Ü	ý		
morning rise	-1912 Apr 05 j 18:15	14°) 24'18		conjunction	-1905 Apr 06 j 17:37	29°) 32′38	-2°03'06
retrograde	-1912 Jul 06 j 06:10	16°) €23'08		minimum elong	-1905 Apr 06 j 17:37	29°) 32′38	2°03'07
opposition	-1912 Sep 23 j 18:45	14°) (57'44	-2°07'41	max. Earth dist.	-1905 Apr 07 j 10:47	29°) 34'14	30.82947 AU
min. Earth dist.	-1912 Sep 23 j 00:32	14° ¥ 59′02	28.82505 AU		-1905 Apr 18 j 23:32	0 ° $\mathbf{\Upsilon}$	
direct	-1912 Dec 10 j 01:22	13°) 33′59		morning rise	-1905 Apr 22 j 22:09	0° Y 08'40	
evening set	-1911 Mar 07 j 06:01	15° ∺ 27'40		retrograde	-1905 Jul 23 j 00:13	2° Y 06'57	
				min. Earth dist.	-1905 Oct 09 j 09:58		28.83341 AU
conjunction	-1911 Mar 23 j 05:47	16° ∺ 03′20		opposition	-1905 Oct 10 j 00:47	0° Ƴ 41'48	-2°11'35
minimum elong	-1911 Mar 23 j 05:46	16° ∺ 03′20			-1905 Nov 04 j 16:50	30° ₹ ₩	
max. Earth dist.	-1911 Mar 24 j 02:26		30.82215 AU	direct	-1905 Dec 26 j 11:08	29° ∺ 17'47	
morning rise	-1911 Apr 08 j 08:25	16° ∺ 39'18			-1904 Feb 14 j 23:09	0 ° $\mathbf{\Upsilon}$	
retrograde	-1911 Jul 08 j 17:19	18°) 38′02		evening set	-1904 Mar 23 j 05:21	1° Y 12'01	
min. Earth dist.	-1911 Sep 25 j 11:55		28.82240 AU				
opposition	-1911 Sep 26 j 05:56	17° ¥ 12'38	-2°08'50	conjunction	-1904 Apr 08 j 07:56	1° Y 47'50	
direct	-1911 Dec 12 j 13:38	15°) 48′48		minimum elong	-1904 Apr 08 j 07:56	1° Y 47'50	
evening set	-1910 Mar 09 j 19:37	17°) 42′32		max. Earth dist.	-1904 Apr 09 j 01:01		30.83434 AU
				morning rise	-1904 Apr 24 j 12:39	2° Y 23'54	
conjunction	-1910 Mar 25 j 19:38	18°) 18′13		retrograde	-1904 Jul 24 j 14:31	4° Y 22'05	
minimum elong	-1910 Mar 25 j 19:38	18°) 18′13		opposition	-1904 Oct 11 j 11:46	2° Y 57'01	
max. Earth dist.	-1910 Mar 26 j 14:46		30.82000 AU	min. Earth dist.	-1904 Oct 10 j 21:02		28.83809 AU
morning rise	-1910 Apr 10 j 22:44	18°) € 54'12		direct	-1904 Dec 28 j 00:06	1° Y 33'00	
retrograde	-1910 Jul 11 j 06:20	20°) 52′51		evening set	-1903 Mar 25 j 19:32	3° Y 27′18	
opposition	-1910 Sep 28 j 17:13	19°) €27'26					
min. Earth dist.	-1910 Sep 27 j 23:32		28.82088 AU	conjunction	-1903 Apr 10 j 22:20	4°Υ03'10	
direct	-1910 Dec 15 j 00:22	18°) €03'32		minimum elong	-1903 Apr 10 j 22:20	4°Υ03'10	
evening set	-1909 Mar 12 j 08:55	19° 米 57'19		max. Earth dist.	-1903 Apr 11 j 13:23		30.83878 AU
	1000 14 20 : 00 24	2001/2202	2001145	morning rise	-1903 Apr 27 j 03:27	4° Υ 39'14	
conjunction	-1909 Mar 28 j 09:26	20°) (33′02		retrograde	-1903 Jul 27 j 03:53	6° Y 37'20	2010152
minimum elong	-1909 Mar 28 j 09:26	20°) (33′02		opposition	-1903 Oct 13 j 22:47	5°Υ12'19	
max. Earth dist.	-1909 Mar 29 j 05:15		30.81900 AU	min. Earth dist.	-1903 Oct 13 j 09:37		28.84228 AU
morning rise	-1909 Apr 13 j 12:42 -1909 Jul 13 j 17:50	21° 米 09'01 23° 米 07'35		direct	-1903 Dec 30 j 10:18 -1902 Mar 28 j 09:35	3° Y 48'17 5° Y 42'39	
retrograde min. Earth dist.	-1909 Sep 30 j 11:30		28.82061 AU	evening set	-1902 Mai 28 J 09.55	3 42 39	
opposition	-1909 Sep 30 j 11.30 -1909 Oct 01 j 04:28	21° H 43'24		conjunction	-1902 Apr 13 j 12:56	6° Ƴ 18'32	2002100
direct	-1909 Dec 17 j 11:52	20° H 18'14	-2 10 34	minimum elong	-1902 Apr 13 j 12:56	6°Υ18'32	
evening set	-1909 Dec 17 j 11:32 -1908 Mar 13 j 22:29	20 X 18 14 22° X 12'06		max. Earth dist.	-1902 Apr 14 j 03:54		30.84254 AU
evening set	-1700 Wai 15 j 22.27	22 /(1200		morning rise	-1902 Apr 29 j 18:07	6° Υ 54'37	30.04234 AO
conjunction	-1908 Mar 29 j 23:22	22°)(47'49	-2°02'23	retrograde	-1902 Jul 29 j 15:00	8° Υ 52'35	
minimum elong	-1908 Mar 29 j 23:22	22°) (47'49		opposition	-1902 Oct 16 j 09:48	7° Υ 27'37	-2°10'14
max. Earth dist.	-1908 Mar 30 j 18:06		30.81959 AU	min. Earth dist.	-1902 Oct 15 j 21:15		28.84552 AU
morning rise	-1908 Apr 15 j 03:02	23°) 23'49	30.01737110	direct	-1901 Jan 01 j 23:03	6° Υ 03'32	20.01332710
retrograde	-1908 Jul 15 j 08:05	25°) 22'19		evening set	-1901 Mar 30 j 23:36	7° Y 57'57	
opposition	-1908 Oct 02 j 15:31	23° H 56'57	-2°11'07				
min. Earth dist.	-1908 Oct 01 j 22:14		28.82198 AU	conjunction	-1901 Apr 16 j 03:10	8° Ƴ 33'51	-2°01'26
direct	-1908 Dec 18 j 23:15	22°) € 32'57		minimum elong	-1901 Apr 16 j 03:10	8° Y 33'51	
evening set	-1907 Mar 16 j 12:07	24°) 26'54		max. Earth dist.	-1901 Apr 16 j 15:58		30.84550 AU
S	j			morning rise	-1901 May 02 j 08:47	9° Y 09'56	
conjunction	-1907 Apr 01 j 13:26	25°) €02'39	-2°02'48	retrograde	-1901 Aug 01 j 03:32	11° Y 07'46	
minimum elong	-1907 Apr 01 j 13:26	25°) €02'39	2°02'49	opposition	-1901 Oct 18 j 20:48	9° Y 42'50	-2°09'24
max. Earth dist.	-1907 Apr 02 j 08:04		30.82162 AU	min. Earth dist.	-1901 Oct 18 j 09:07		28.84816 AU
morning rise	-1907 Apr 17 j 17:22	25°) 38'40		direct	-1900 Jan 04 j 09:44	8° Y 18'40	
retrograde	-1907 Jul 17 j 20:59	27°) €37'05		evening set	-1900 Apr 01 j 13:38	10° Ƴ 13'08	
min. Earth dist.	-1907 Oct 04 j 10:41	26°) 12'54	28.82474 AU		<u>.</u> ,		
opposition	-1907 Oct 05 j 02:43	26°) 11'46		conjunction	-1900 Apr 17 j 17:44	10° Ƴ 49'03	-2°00'34
direct	-1907 Dec 21 j 11:30	24°) 47'46		minimum elong	-1900 Apr 17 j 17:44	10° Ƴ 49'03	2°00'33
evening set	-1906 Mar 19 j 01:46	26°) 41′48		max. Earth dist.	-1900 Apr 18 j 06:34	10° Y 50'15	30.84788 AU
-	·			morning rise	-1900 May 03 j 23:26	11° Y 25'08	
conjunction	-1906 Apr 04 j 03:30	27°) (17′34	-2°03'03	retrograde	-1900 Aug 02 j 14:37	13° Y 22'49	
minimum elong	-1906 Apr 04 j 03:30	27°) (17′34	2°03'03	opposition	-1900 Oct 20 j 07:35	11° Y 57'54	-2°08'22
max. Earth dist.	-1906 Apr 04 j 21:37	27°) (19′16	30.82511 AU	min. Earth dist.	-1900 Oct 19 j 21:16	11° Y 58'38	28.85036 AU

Planetary Phenomena of Neptune from -2400 through -1898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 40

Attention, astronomical year style is used: The year -1899 in astronomical counting style is the year 1900 BCE in historical counting style.

direct $-1899 \text{ Jan } 05 \text{ j } 20:55 \quad 10^{\circ}\text{\Upsilon}33'39$ evening set $-1899 \text{ Apr } 04 \text{ j } 03:46 \quad 12^{\circ}\text{\Upsilon}28'09$

morning rise -1899 May 06 j 14:14 13°**Y**40'10 retrograde -1899 Aug 05 j 03:11 15°**Y**'37'40

direct -1898 Jan 08 j 08:51 12°**Y**'48'26