•	-		-		st AG 18-Feb-2025 5401 BCE in historical c	
morning rise	-5400 Jan 08 j 11:41	23°M45'37	in astronomical co	conjunction	-5394 Jan 05 j 16:11	6° ₹ 31'33 -0°35'34
retrograde	-5400 Apr 08 j 20:25	25°M44'18		minimum elong	-5394 Jan 05 j 16:11	6° ₹31'33 0°35'51
opposition		24°M19'10	0006144	max. Earth dist.		6° ₹34'03 30.92505 AU
min. Earth dist.	-5400 Jun 28 j 19:57		28.96968 AU	morning rise	-5394 Jan 06 j 18:41	7° ₹ 07'12
	-5400 Jun 27 j 20:15	22°M56'25	26.90906 AU	-	-5394 Jan 21 j 12:55	9° ₹ 06'11
direct	-5400 Sep 14 j 15:32			retrograde	-5394 Apr 23 j 03:50	
evening set	-5400 Dec 09 j 15:21	24°M48'34		opposition	-5394 Jul 12 j 21:42	7° \$\frac{7}{40}'51 \ -0°40'54
	5400 D 25:05 21	0.50M 00107	0000150	min. Earth dist.	-5394 Jul 11 j 21:15	7° ₹ 42'33 28.92240 AU
conjunction	-5400 Dec 25 j 05:31	25°M23'37		direct	-5394 Sep 28 j 11:09	6° ₰ 18'01
minimum elong	-5400 Dec 25 j 05:31	25°M23'37	0°09'13	evening set	-5394 Dec 23 j 11:15	8° ₹ 10′20
behind sun begin	-5400 Dec 25 j 00:02	25°M23'07				
behind sun end	-5400 Dec 25 j 10:59	25°M24'07		conjunction	-5393 Jan 08 j 04:26	8° ₹ 45'37 -0°40'47
max. Earth dist.	-5400 Dec 26 j 05:25		30.96403 AU	minimum elong	-5393 Jan 08 j 04:25	8° 🗷 45'37 0°41'05
morning rise	-5399 Jan 09 j 23:45	25°M59'04		max. Earth dist.	-5393 Jan 09 j 06:32	8° ₹ 48'04 30.91882 AU
retrograde	-5399 Apr 11 j 09:48	27°M57'47		morning rise	-5393 Jan 24 j 01:39	9° ∡ 21'17
min. Earth dist.	-5399 Jun 30 j 09:09		28.95930 AU	retrograde	-5393 Apr 25 j 18:31	11° ∡ 720′19
opposition	-5399 Jul 01 j 08:17	26°M32'34	-0°12'30	min. Earth dist.	-5393 Jul 14 j 08:47	9° ₹ 56'44 28.91599 AU
direct	-5399 Sep 17 j 01:31	25° ™ 09'46		opposition	-5393 Jul 15 j 09:52	9° ⊀ 54'59 -0°46'27
evening set	-5399 Dec 12 j 02:16	27°M01'55		direct	-5393 Sep 30 j 21:38	8° ∡ ³32′09
				evening set	-5393 Dec 25 j 23:15	10° ₹ 24'30
conjunction	-5399 Dec 27 j 17:05	27°M37'01	-0°14'20			
minimum elong	-5399 Dec 27 j 17:06	27° M 37'01	0°14'34	conjunction	-5392 Jan 10 j 16:52	10° ₹ 59'50 -0°45'57
behind sun begin	-5399 Dec 27 j 14:16	27°M36'46		minimum elong	-5392 Jan 10 j 16:51	10° ₹ 59'50 0°46'14
behind sun end	-5399 Dec 27 j 19:55	27° M 37'16		max. Earth dist.	-5392 Jan 11 j 18:45	11° ₹ 02'16 30.91191 AU
max. Earth dist.	-5399 Dec 28 j 18:26	27°M39'24	30.95418 AU	morning rise	-5392 Jan 26 j 14:36	11° ∡ ³35'33
morning rise	-5398 Jan 12 j 11:42	28°M12'30		retrograde	-5392 Apr 27 j 06:07	13° ∡ ³34'37
	-5398 Mar 18 j 13:26	0° ∡		opposition	-5392 Jul 16 j 22:12	12° ∡ 09'17 -0°51'56
retrograde	-5398 Apr 13 j 22:42	0° ≯ 11'15		min. Earth dist.	-5392 Jul 15 j 22:23	12° ∡ 10'56 28.90869 AU
	-5398 May 10 j 17:30	30°RM		direct	-5392 Oct 02 j 08:01	10° ∡ 146′24
opposition	-5398 Jul 03 j 20:34	28° ™ 45′59	-0°18'14	evening set	-5392 Dec 27 j 11:21	12° ∡ 38'49
min. Earth dist.	-5398 Jul 02 j 20:09	28° M 47'41	28.95002 AU			
direct	-5398 Sep 19 j 13:52	27° M 23'10		conjunction	-5391 Jan 12 j 05:30	13° ∡ 14'10 -0°51'02
evening set	-5398 Dec 14 j 13:20	29°M15'20		minimum elong	-5391 Jan 12 j 05:30	13° ∡ 14'10 0°51'20
				max. Earth dist.	-5391 Jan 13 j 07:28	13° ∡ 16'37 30.90411 AU
conjunction	-5398 Dec 30 j 04:31	29°M50'27	-0°19'41	morning rise	-5391 Jan 28 j 03:35	13° ∡ ¹49'54
minimum elong	-5398 Dec 30 j 04:31	29°M50'27	0°19'56	retrograde	-5391 Apr 29 j 19:35	15° ∡ ¹49'00
max. Earth dist.	-5398 Dec 31 j 05:18	29°M52'48	30.94553 AU	min. Earth dist.	-5391 Jul 18 j 09:47	14° ∡ °25′20 28.90037 AU
	-5397 Jan 03 j 09:36	0° ∡ ¹		opposition	-5391 Jul 19 j 10:14	14° ∡ °23'38 -0°57'20
morning rise	-5397 Jan 14 j 23:50	0° ∡ ¹25'59		direct	-5391 Oct 04 j 19:56	13° ∡ 00'42
retrograde	-5397 Apr 16 j 13:44	2° ∡ °24'48		evening set	-5391 Dec 29 j 23:35	14° ∡ 53′10
min. Earth dist.	-5397 Jul 05 j 08:39	1° ∡ *01′10	28.94203 AU		-	
opposition	-5397 Jul 06 j 08:59	0° ∡ 759′29	-0°23'57	conjunction	-5390 Jan 14 j 18:04	15° ∡ ¹28'33 -0°56'03
	-5397 Aug 15 j 04:31	30°RM		minimum elong	-5390 Jan 14 j 18:03	15° ∡ 28'33 0°56'20
direct	-5397 Sep 22 j 01:03	29°M36'39		max. Earth dist.	-5390 Jan 15 j 19:00	15° ∡ 30'54 30.89527 AU
	-5397 Oct 28 j 22:13	0° ∡ ″		morning rise	-5390 Jan 30 j 16:43	16° ₹ 04'19
evening set	-5397 Dec 17 j 00:32	1° ∡ ′28′50		retrograde	-5390 May 02 j 08:44	18° ∡ 03'26
	-			opposition	-5390 Jul 21 j 22:28	16° ∡ 38'01 -1°02'39
conjunction	-5396 Jan 01 j 16:22	2° ҂ ′04′00	-0°25'01	min. Earth dist.	-5390 Jul 20 j 23:14	16° ∡ 39'38 28.89126 AU
minimum elong	-5396 Jan 01 j 16:22	2° ҂ ′04′00	0°25'16	direct	-5390 Oct 07 j 05:53	15° ∡ 15′01
max. Earth dist.	-5396 Jan 02 j 18:40	2° ₹ 06'29	30.93799 AU	evening set	-5389 Jan 01 j 11:36	17° ∡ 07'30
morning rise	-5396 Jan 17 j 12:04	2° х 39'34		C	,	
retrograde	-5396 Apr 18 j 02:14	4° ∡ ³38'26		conjunction	-5389 Jan 17 j 06:43	17° ∡ ¹42'55 -1°00'58
opposition	-5396 Jul 07 j 21:08	3° ∡ 13'06	-0°29'39	minimum elong	-5389 Jan 17 j 06:43	17° ∡ ¹42'55 1°01'17
min. Earth dist.	-5396 Jul 06 j 20:28		28.93494 AU	max. Earth dist.	-5389 Jan 18 j 08:25	17° ∡ ¹45'20 30.88590 AU
direct	-5396 Sep 23 j 13:28	1° ∡ 750'16		morning rise	-5389 Feb 02 j 05:40	18° ∡ 18'43
evening set	-5396 Dec 18 j 12:00	3° ∡ ¹42'29		retrograde	-5389 May 04 j 22:02	20° 🖍 17'49
e vennig set	3370 BCC 10 J 12.00	3 × 1229		min. Earth dist.	-5389 Jul 23 j 10:38	18° ≯ 54'01 28.88173 AU
conjunction	-5395 Jan 03 j 04:14	4° ∡ 17'42	-0°30'19	opposition	-5389 Jul 24 j 10:26	18° ≯ 52′21 -1°07′52
minimum elong	-5395 Jan 03 j 04:14	4°×17'42		direct	-5389 Oct 09 j 18:41	17° ₹ 29'17
max. Earth dist.	-5395 Jan 04 j 05:52		30.93136 AU	evening set	-5388 Jan 04 j 00:01	17 ★ 29 17 19° ₹ 21'49
morning rise	-5395 Jan 19 j 00:34	4° x °2007 4° x 753'18	50.75150 AU	evening set	5500 Jan 0+ J 00.01	1/ 7 41 7/
retrograde	-5395 Jan 19 J 00:34 -5395 Apr 20 j 16:10	6° ₹ '52'13		conjunction	-5388 Jan 19 j 19:24	19° ₹ 157'15 -1°05'48
min. Earth dist.	-5395 Apr 20 j 10:10 -5395 Jul 09 j 08:25		28.92863 AU	minimum elong	-5388 Jan 19 j 19:24	19° ₹ '57'15 1°06'06
opposition	-5395 Jul 10 j 09:24	5° ₹ 26'53		max. Earth dist.	-5388 Jan 20 j 19:54	19° ₹ '59'33 30.87640 AU
direct	-5395 Sep 25 j 23:53	3 x ·20 33 4° x ¹04'03	0 33 10	morning rise	-5388 Jan 20 j 19.34 -5388 Feb 04 j 18:57	19 x · 39 33 30.8 / 640 AU 20° x 133 '05
evening set	-5395 Sep 25 j 25:35 -5395 Dec 20 j 23:28	5° ₹ 56'18		retrograde	-5388 May 06 j 12:55	20 ★ 33 03 22° ₹ 32'10
evening set	20 J 23.20	J × JU 10		renograue	2200 May 00 J 12.33	22 A 32 IV

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5388 in astronomical counting style is the year 5389 BCE in historical counting style. -5388 Jul 25 i 22:17 21°**x**¹06'39 -1°12'59 conjunction -5381 Feb 04 i 14:34 5°る38'40 -1°36'29 opposition 21°**₹**08'16 28.87254 AU -5388 Jul 24 j 23:08 -5381 Feb 04 j 14:33 5°₹38'40 1°36'48 min. Earth dist. minimum elong -5388 Oct 11 j 06:06 19°**х** 43′29 -5381 Feb 05 j 14:48 5°る40'57 30.83973 AU direct max. Earth dist. -5381 Feb 20 j 16:34 -5387 Jan 05 j 12:20 21°×736'04 6°**ප**14'38 evening set morning rise -5381 May 23 j 07:58 8°る13'45 retrograde -5387 Jan 21 j 08:17 22°**∡**11'33 -1°10'32 6°る49'49 28.83994 AU conjunction min. Earth dist. -5381 Aug 10 j 10:16 -5387 Jan 21 j 08:16 22°**∡**11'33 1°10'51 6°る48'18 -1°45'19 minimum elong opposition -5381 Aug 11 j 07:59 -5387 Jan 22 j 09:54 -5381 Oct 27 j 10:46 5°**る**24'54 max. Earth dist. 22°**✗**13'57 30.86742 AU direct -5380 Jan 22 j 05:39 morning rise -5387 Feb 06 j 08:03 22°×747'23 evening set 7°る18'06 retrograde -5387 May 09 j 01:19 24°**∡**¹46′28 min. Earth dist. -5387 Jul 27 j 10:50 23°**✗**22'32 28.86406 AU conjunction -5380 Feb 07 j 04:22 7°る53'44 -1°40'20 -5387 Jul 28 j 10:04 -5380 Feb 07 j 04:21 7°る53'44 1°40'38 opposition 23°**∡**120′55 -1°17′59 minimum elong -5380 Feb 08 j 04:52 direct -5387 Oct 13 j 18:53 21°**х¹**57'42 max. Earth dist. 7°る56'03 30.83773 AU evening set -5386 Jan 08 j 00:39 23°**х** 50′19 morning rise -5380 Feb 23 j 06:29 8°る29'44 retrograde -5380 May 24 j 21:02 10°る28'49 conjunction -5386 Jan 23 j 20:53 24°**₹**25'49 -1°15'10 opposition -5380 Aug 12 j 19:24 9°る03'25 -1°49'21 minimum elong -5386 Jan 23 j 20:53 24°**х** 25′49 1°15'28 min. Earth dist. -5380 Aug 11 j 21:35 9°る04'57 28.83770 AU max. Earth dist. -5386 Jan 24 j 21:40 24°**✗**¹28'09 30.85952 AU direct -5380 Oct 28 j 23:32 7°る39'59 morning rise -5386 Feb 08 j 21:10 25°**х** 01'42 evening set -5379 Jan 23 j 19:12 9°**ප**33'17 retrograde -5386 May 11 j 15:33 27°**х** 00′46 opposition -5386 Jul 30 j 21:52 25° ₹35'11 -1°22'52 conjunction -5379 Feb 08 j 18:05 10°る08'57 -1°44'03 min. Earth dist. -5386 Jul 29 i 22:24 25° ₹36'50 28.85695 AU minimum elong -5379 Feb 08 i 18:05 10°る08'57 1°44'21 direct -5386 Oct 16 i 05:48 24°**х** 11′55 max. Earth dist. -5379 Feb 09 i 16:44 10°る11'04 30.83510 AU evening set -5385 Jan 10 j 13:07 26°**х** 04'36 morning rise -5379 Feb 24 i 20:39 10°る44'57 retrograde -5379 May 27 j 11:21 12°る44'01 -5385 Jan 26 j 09:50 26°**₹**'40'08 -1°19'40 -5379 Aug 14 j 10:26 11°る20'04 28.83480 AU conjunction min. Earth dist. -5385 Jan 26 j 09:50 26°**₹**40'08 1°19'59 -5379 Aug 15 j 07:05 11°る18'37 -1°53'14 minimum elong opposition -5385 Jan 27 j 11:23 26°**✗¹**42'32 30.85296 AU -5379 Oct 31 j 10:39 9°**ප**555'08 max. Earth dist. direct -5385 Feb 11 j 10:24 -5378 Jan 26 j 08:29 11°る48'30 27°**х** 16′02 morning rise evening set 29°**х** 15′06 -5385 May 14 j 03:56 retrograde -5385 Aug 01 j 10:36 -5378 Feb 11 j 07:53 12°る24'12 -1°47'35 27°**∡**51'07 28.85121 AU conjunction min. Earth dist. -5385 Aug 02 j 09:33 -5378 Feb 11 j 07:53 27°**х** 49'31 -1°27'38 minimum elong 12°る24'12 1°47'53 opposition -5378 Feb 12 j 06:57 -5385 Oct 18 j 17:34 26°**х** 26′13 max. Earth dist. 12°る26'22 30.83165 AU direct -5384 Jan 13 j 01:44 28°**х¹**18'59 -5378 Feb 27 j 10:34 13°**る**00'13 evening set morning rise -5378 May 29 j 23:55 14°**る**59'13 retrograde -5384 Jan 28 j 22:52 28°**₹**'54'32 -1°24'04 -5378 Aug 17 j 18:39 13°る33'50 -1°56'56 conjunction opposition -5384 Jan 28 j 22:52 -5378 Aug 16 j 22:32 13°る35'15 28.83092 AU minimum elong 28° × 54'32 1°24'22 min. Earth dist. max. Earth dist. -5384 Jan 29 j 23:56 28°**✗** 56'54 30.84801 AU direct -5378 Nov 02 j 23:27 12°る10'16 morning rise -5384 Feb 13 j 23:50 29°**х** 30′27 evening set -5377 Jan 28 j 22:07 14°る03'43 -5384 Feb 27 j 20:42 0°ರ retrograde -5384 May 15 j 18:42 1°る29'31 conjunction -5377 Feb 13 j 21:46 14°る39'25 -1°50'58 -5384 Aug 03 j 21:09 0°る03'57 -1°32'16 -5377 Feb 13 j 21:46 14°る39'25 1°51'17 opposition minimum elong min. Earth dist. -5384 Aug 02 j 21:28 0°る05'37 28.84699 AU max. Earth dist. -5377 Feb 14 j 19:04 14°る41'25 30.82749 AU -5384 Aug 06 j 05:31 30°R*x* -5377 Mar 02 j 00:53 15°**る**15'27 morning rise -5384 Oct 20 j 04:29 28°×740'37 -5377 Jun 01 j 14:44 17°**る**14'23 direct retrograde 15°る50'20 28.82659 AU -5384 Dec 29 j 18:01 0°정 min. Earth dist. -5377 Aug 19 j 10:31 evening set -5383 Jan 14 j 14:30 0°る33'29 opposition -5377 Aug 20 j 06:02 15°る48'58 -2°00'28 direct -5377 Nov 05 i 11:07 14°る25'19 1°る09'04 -1°28'20 conjunction -5383 Jan 30 j 11:57 evening set -5376 Jan 31 j 11:44 16°る18'49 -5383 Jan 30 i 11:56 1°る09'04 1°28'40 minimum elong conjunction -5383 Jan 31 j 13:00 1°る11'25 30.84427 AU -5376 Feb 16 i 11:50 16°**ප**54'33 -1°54'11 max. Earth dist. -5383 Feb 15 j 13:15 1°る45'00 minimum elong -5376 Feb 16 i 11:50 16°**ප**54'33 1°54'29 morning rise max. Earth dist. -5383 May 18 j 05:31 3°₹44'05 -5376 Feb 17 j 09:16 16°る56'33 30.82289 AU retrograde 2°る20'08 28.84392 AU 17°る30'35 min. Earth dist. -5383 Aug 05 j 10:13 morning rise -5376 Mar 03 j 15:05 2°**ට**18'33 -1°36'46 19°る29'25 opposition -5383 Aug 06 j 08:46 retrograde -5376 Jun 03 j 03:35 -5383 Oct 22 j 14:40 0°**る**55'12 direct opposition -5376 Aug 21 j 17:26 18°る03'59 -2°03'48 evening set -5382 Jan 17 j 03:20 2°る48'10 min. Earth dist. -5376 Aug 20 j 23:02 18°る05'17 28.82204 AU -5376 Nov 07 j 00:09 16°**ප්**40'15 direct -5382 Feb 02 j 01:16 3°る23'46 -1°32'29 -5375 Feb 02 j 01:21 18°**る**33'49 conjunction evening set -5382 Feb 02 j 01:15 3°る23'46 1°32'47 minimum elong 3°る26'08 30.84175 AU -5375 Feb 18 j 01:43 19°る09'34 -1°57'13 max. Earth dist. -5382 Feb 03 j 02:30 conjunction -5382 Feb 18 j 02:48 3°る59'44 minimum elong -5375 Feb 18 j 01:43 19°る09'34 1°57'32 morning rise retrograde -5382 May 20 j 18:59 5°**る**58'49 max. Earth dist. -5375 Feb 18 j 22:02 19°る11'28 30.81853 AU opposition -5382 Aug 08 j 20:18 4°**ප**33'20 -1°41'07 morning rise -5375 Mar 06 j 05:16 19°**る**45'36 min. Earth dist. -5382 Aug 07 j 21:06 4°る34'58 28.84178 AU retrograde -5375 Jun 05 j 17:36 21°る44'21 -5382 Oct 25 j 01:49 3°る09'58 -5375 Aug 23 j 09:54 20°る20'14 28.81803 AU direct min. Earth dist. -5381 Jan 19 j 16:23 5°る03'02 -5375 Aug 24 j 04:36 20°る18'54 -2°06'57 evening set opposition

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5375 in astronomical counting style is the year 5376 BCE in historical counting style. -5375 Nov 09 j 12:23 18°る55'04 minimum elong -5368 Mar 06 i 05:02 4°≈54'41 2°13'31 direct -5374 Feb 04 j 15:01 20°る48'43 -5368 Mar 06 j 21:06 4°≈56'11 30.81921 AU max. Earth dist. evening set -5368 Mar 22 j 10:01 5°≈30'45 morning rise -5374 Feb 20 j 15:41 21°る24'28 -2°00'05 -5368 Jun 21 j 11:53 7°≈29'04 conjunction retrograde -5368 Sep 08 j 10:14 -5374 Feb 20 j 15:41 21°る24'28 2°00'23 6°≈04'00 -2°23'21 minimum elong opposition -5368 Sep 07 j 19:49 min. Earth dist. max. Earth dist. -5374 Feb 21 j 11:43 21°る26'21 30.81482 AU 6°≈05'01 28.82236 AU morning rise -5374 Mar 08 j 19:26 22°る00'31 direct -5368 Nov 24 j 18:45 4°≈39'55 retrograde -5374 Jun 08 j 05:06 23°る59'11 evening set -5367 Feb 20 j 16:47 6°≈34'22 -5374 Aug 26 j 15:51 opposition 22°る33'44 -2°09'55 min. Earth dist. -5374 Aug 25 j 22:30 22°る34'58 28.81499 AU conjunction -5367 Mar 08 j 19:39 7°≈10'15 -2°14'45 direct -5374 Nov 11 j 23:16 21°る09'50 minimum elong -5367 Mar 08 j 19:39 7°≈10'15 2°15'02 -5373 Feb 07 j 04:37 23°る03'33 evening set max. Earth dist. -5367 Mar 09 j 11:36 7°≈11'44 30.82179 AU morning rise -5367 Mar 25 j 00:36 7°≈46'19 conjunction -5373 Feb 23 j 05:43 23°る39'19 -2°02'46 retrograde -5367 Jun 24 j 00:59 9°≈44'34 minimum elong -5373 Feb 23 j 05:43 23°**る**39'19 2°03'04 opposition -5367 Sep 10 j 21:20 8°≈19'34 -2°24'51 max. Earth dist. -5373 Feb 24 j 01:34 23°る41'10 30.81243 AU min. Earth dist. -5367 Sep 10 j 08:25 8°≈20'29 28.82462 AU morning rise -5373 Mar 11 j 09:40 24°る15'22 direct -5367 Nov 27 j 07:58 6°≈55'27 retrograde -5373 Jun 10 j 18:48 26°る13'57 evening set -5366 Feb 23 j 07:13 8°≈50'02 min. Earth dist. -5373 Aug 28 j 09:02 24°る49'48 28.81326 AU opposition -5373 Aug 29 j 02:56 24°る48'31 -2°12'41 conjunction -5366 Mar 11 j 10:19 9°≈25'55 -2°16'03 direct -5373 Nov 14 j 11:06 23°る24'33 minimum elong -5366 Mar 11 j 10:19 9°≈25'55 2°16'18 evening set -5372 Feb 09 j 18:32 25°る18'22 max. Earth dist. -5366 Mar 12 j 00:21 9°≈27'13 30.82369 AU morning rise -5366 Mar 27 j 15:31 10°≈02'00 conjunction -5372 Feb 25 i 19:49 25°る54'09 -2°05'15 retrograde -5366 Jun 26 i 15:16 12°≈00'09 -5372 Feb 25 j 19:49 25°る54'09 2°05'32 opposition -5366 Sep 13 j 08:18 10°≈35'12 -2°26'07 minimum elong -5372 Feb 26 j 14:38 25°る55'55 30.81130 AU -5366 Sep 12 j 19:37 10°≈36'06 28.82607 AU max. Earth dist. min. Earth dist. -5372 Mar 13 j 00:03 26°る30'12 -5366 Nov 29 j 20:41 9° 2211'01 morning rise direct 28°**る**28'44 evening set -5365 Feb 25 j 21:42 11°≈05'42 -5372 Jun 12 j 06:48 retrograde -5372 Aug 30 j 14:02 27°**ප**03'21 -2°15'14 opposition -5372 Aug 29 j 21:31 11°**≈**41'36 -2°17'08 -5365 Mar 14 j 01:06 min. Earth dist. 27°る04'31 28.81300 AU conjunction -5372 Nov 15 j 20:21 25°**る**39'19 -5365 Mar 14 j 01:06 11°≈41'36 2°17'23 direct minimum elong -5371 Feb 11 j 08:18 27°**る**33'15 max. Earth dist. -5365 Mar 14 j 14:13 11°≈42'49 30.82456 AU evening set 12°≈17'41 -5365 Mar 30 j 06:25 morning rise -5371 Feb 27 j 10:03 28°る09'03 -2°07'33 -5365 Jun 29 j 03:42 conjunction retrograde 14°≈15'43 -5371 Feb 27 j 10:03 -5365 Sep 15 j 19:24 minimum elong 28°る09'03 2°07'51 opposition 12°≈50'48 -2°27'09 -5371 Feb 28 j 05:13 -5365 Sep 15 j 08:41 max. Earth dist. 28°る10'51 30.81176 AU min. Earth dist. 12°≈51'33 28.82652 AU morning rise -5371 Mar 15 j 14:20 28°**る**45'07 direct -5365 Dec 02 j 08:24 11°**≈**26′33 -5371 Apr 23 j 08:51 0°≈ evening set -5364 Feb 28 j 12:12 13°≈21'18 retrograde -5371 Jun 14 j 19:03 0°≈43'35 -5371 Aug 07 j 09:41 30°Ŗ⋜ conjunction -5364 Mar 15 j 15:55 13°≈57'13 -2°18'00 min. Earth dist. -5371 Sep 01 j 08:12 29°る19'27 28.81412 AU minimum elong -5364 Mar 15 j 15:55 13°≈57'13 2°18'14 -5371 Sep 02 j 01:05 29°る18'15 -2°17'35 max. Earth dist. -5364 Mar 16 j 03:54 13°≈58'20 30.82474 AU opposition -5371 Nov 18 j 08:54 27°る54'13 -5364 Mar 31 j 21:21 14°≈33'17 direct morning rise -5370 Feb 13 j 22:10 29°る48'16 -5364 Apr 13 j 11:06 evening set -5370 Feb 19 j 05:59 -5364 Jun 30 j 18:04 0°≈ retrograde 16°≈31'11 opposition -5364 Sep 17 i 06:08 15°≈06'17 -2°27'58 -5370 Mar 02 i 00:03 0°≈24'05 -2°09'39 conjunction min. Earth dist. -5364 Sep 16 j 19:29 15°≈07'03 28.82640 AU minimum elong -5370 Mar 02 i 00:03 0°≈24'05 2°09'56 -5364 Sep 20 i 22:33 15°R≈ max. Earth dist. -5370 Mar 02 j 17:39 0°≈25'43 30.81351 AU direct -5364 Dec 03 i 21:14 13°≈41'57 -5370 Mar 18 i 04:42 1°≈00'09 -5363 Feb 12 j 12:15 15°**≈** morning rise -5370 Jun 17 i 08:24 2°≈58'34 -5363 Mar 02 j 02:43 retrograde evening set 15°≈36'46 -5370 Sep 04 j 12:14 1°≈33'19 -2°19'44 opposition -5370 Sep 03 j 20:23 1°≈34'27 28.81648 AU -5363 Mar 18 j 06:36 16°≈12'42 -2°18'40 min. Earth dist. conjunction 0°≈09'15 direct -5370 Nov 20 j 19:16 minimum elong -5363 Mar 18 j 06:36 16°≈12'42 2°18'54 evening set -5369 Feb 16 j 12:10 2°≈03'27 max. Earth dist. -5363 Mar 18 j 17:11 16°≈13'41 30.82449 AU -5363 Apr 03 j 12:12 16°≈48'46 morning rise conjunction -5369 Mar 04 j 14:32 2°≈39'17 -2°11'33 -5363 Jul 03 j 05:18 18°≈46'31 retrograde -5369 Mar 04 j 14:32 -5363 Sep 19 j 17:04 17°≈21'38 -2°28'34 minimum elong 2°≈39'17 2°11'51 opposition -5369 Mar 05 j 08:35 -5363 Sep 19 j 08:12 17°≈22'16 28.82629 AU max. Earth dist. 2°≈40'58 30.81620 AU min. Earth dist. -5369 Mar 20 j 19:12 morning rise 3°≈15'21 direct -5363 Dec 06 j 07:25 15°≈57'13 -5369 Jun 19 j 20:59 -5362 Mar 04 j 16:54 retrograde 5°≈13'43 evening set 17°≈52'05 -5369 Sep 06 j 23:09 3°≈48'34 -2°21'39 opposition min. Earth dist. -5369 Sep 06 j 07:58 3°≈49'39 28.81938 AU conjunction -5362 Mar 20 j 21:12 18°≈28'01 -2°19'07 direct -5369 Nov 23 j 07:13 2°≈24'30 minimum elong -5362 Mar 20 j 21:13 18°**≈**28′01 2°19'20 evening set -5368 Feb 19 j 02:32 4°≈18'50 max. Earth dist. -5362 Mar 21 j 07:40 18°**≈**29'00 30.82459 AU -5362 Apr 06 j 02:50 19°≈04'06 morning rise -5368 Mar 06 j 05:02 4°≈54'41 -2°13'16 -5362 Jul 05 j 16:38 21°≈01'41 conjunction retrograde

•	omena of Neptune 1		-				page 4
	nical year style is used: Th	-		ounting style is the year			
opposition	-5362 Sep 22 j 03:45	19° ≈ 36'49	-2°28'56	direct	-5356 Dec 21 j 19:45	1° ∺ 41′25	
min. Earth dist.	-5362 Sep 21 j 18:53	19° ≈ 37'27	28.82660 AU	evening set	-5355 Mar 20 j 22:03	3°) 36′55	
direct	-5362 Dec 08 j 20:45	18° ≈ 12'18					
evening set	-5361 Mar 07 j 07:26	20° ≈ 07'15		conjunction	-5355 Apr 06 j 03:53	4°) 12′54	
				minimum elong	-5355 Apr 06 j 03:54	4°) 12′54	2°16'29
conjunction	-5361 Mar 23 j 11:50	20° ≈ 43'11	-2°19'21	max. Earth dist.	-5355 Apr 06 j 07:50		30.85479 AU
minimum elong	-5361 Mar 23 j 11:50	20° ≈ 43'11	2°19'34	morning rise	-5355 Apr 22 j 10:05	4°) 48′56	
max. Earth dist.	-5361 Mar 23 j 20:26	20° ≈ 43'59	30.82531 AU	retrograde	-5355 Jul 21 j 08:57	6°) 45'37	
morning rise	-5361 Apr 08 j 17:43	21° ≈ 19′15		opposition	-5355 Oct 07 j 05:59	5° ∺ 21'12	-2°25'08
retrograde	-5361 Jul 08 j 04:42	23° ≈ 16'42		min. Earth dist.	-5355 Oct 07 j 02:24	5° ∺ 21′28	28.85974 AU
opposition	-5361 Sep 24 j 14:24	21° ≈ 51'51	-2°29'05	direct	-5355 Dec 24 j 08:59	3°) 56′24	
min. Earth dist.	-5361 Sep 24 j 06:44	21° ≈ 52'24	28.82792 AU	evening set	-5354 Mar 23 j 12:36	5° 米 51'59	
direct	-5361 Dec 11 j 06:53	20° ≈ 27'14					
evening set	-5360 Mar 08 j 21:48	22° ≈ 22'16		conjunction	-5354 Apr 08 j 18:35	6° ∺ 27'59	
				minimum elong	-5354 Apr 08 j 18:35	6° ∺ 27'59	2°15'12
conjunction	-5360 Mar 25 j 02:36	22° ≈ 58'12	-2°19'23	max. Earth dist.	-5354 Apr 08 j 21:03	6° ∺ 28'13	30.86114 AU
minimum elong	-5360 Mar 25 j 02:37	22° ≈ 58'12	2°19'35	morning rise	-5354 Apr 25 j 00:50	7° ∺ 04'01	
max. Earth dist.	-5360 Mar 25 j 11:32	22° ≈ 59'02	30.82719 AU	retrograde	-5354 Jul 23 j 20:32	9° ∺ 00'34	
morning rise	-5360 Apr 10 j 08:24	23° ≈ 34'16		opposition	-5354 Oct 09 j 16:43	7° ∺ 36'14	-2°23'41
retrograde	-5360 Jul 09 j 15:59	25° ≈ 31'34		min. Earth dist.	-5354 Oct 09 j 15:13	7°) 36′20	28.86574 AU
opposition	-5360 Sep 26 j 01:05	24°≈06'46	-2°28'59	direct	-5354 Dec 26 j 19:52	6° ∺ 11'23	
min. Earth dist.	-5360 Sep 25 j 17:52	24°≈07'17	28.83041 AU	evening set	-5353 Mar 26 j 03:14	8°) €07'03	
direct	-5360 Dec 12 j 18:52	22° ≈ 42'05					
evening set	-5359 Mar 11 j 12:08	24° ≈ 37'11		conjunction	-5353 Apr 11 j 09:31	8°) 43′04	-2°13'37
				minimum elong	-5353 Apr 11 j 09:32	8°) 43′04	2°13'45
conjunction	-5359 Mar 27 j 17:00	25°≈13'07	-2°19'12	max. Earth dist.	-5353 Apr 11 j 11:12	8°) 43′13	30.86675 AU
minimum elong	-5359 Mar 27 j 17:01	25°≈13'07	2°19'24	morning rise	-5353 Apr 27 j 15:43	9°) 19′06	
max. Earth dist.	-5359 Mar 28 j 00:09	25°≈13'47	30.83045 AU	retrograde	-5353 Jul 26 j 08:32	11°) 15′28	
morning rise	-5359 Apr 12 j 23:02	25°≈49'11		opposition	-5353 Oct 12 j 03:12	9°) 51′13	-2°22'01
retrograde	-5359 Jul 12 j 04:45	27°≈46′21		min. Earth dist.	-5353 Oct 12 j 02:07	9° ∺ 51'17	28.87077 AU
opposition	-5359 Sep 28 j 11:43	26° ≈ 21'36	-2°28'41	direct	-5353 Dec 29 j 09:13	8° ∺ 26'19	
min. Earth dist.	-5359 Sep 28 j 04:55	26° ≈ 22'05	28.83445 AU	evening set	-5352 Mar 27 j 17:58	10°) 22′03	
direct	-5359 Dec 15 j 06:39	24°≈56'52					
evening set	-5358 Mar 14 j 02:27	26°≈52'03		conjunction	-5352 Apr 13 j 00:16	10°) 58′04	-2°11'58
-	-			minimum elong	-5352 Apr 13 j 00:17	10°) 58′04	2°12'05
conjunction	-5358 Mar 30 j 07:42	27°≈28'00	-2°18'48	max. Earth dist.	-5352 Apr 12 j 23:42	10°) 58′01	30.87145 AU
minimum elong	-5358 Mar 30 j 07:42	27°≈28'00	2°18'59	morning rise	-5352 Apr 29 j 06:36	11°) 34'05	
max. Earth dist.	-5358 Mar 30 j 15:09	27° ≈ 28'42	30.83517 AU	retrograde	-5352 Jul 27 j 20:39	13°) 30′18	
morning rise	-5358 Apr 15 j 13:39	28°≈04'03		opposition	-5352 Oct 13 j 13:49	12°) €06'06	-2°20'09
	-5358 Jul 06 j 17:09	0° ∀		min. Earth dist.	-5352 Oct 13 j 14:14	12°) €06'04	28.87519 AU
retrograde	-5358 Jul 14 j 16:20	0°) €01'06		direct	-5352 Dec 30 j 19:32	10°) 41′08	
	-5358 Jul 22 j 18:46	30° R ≈		evening set	-5351 Mar 30 j 08:15	12°) 36′55	
opposition	-5358 Sep 30 j 22:18	28° ≈ 36′25	-2°28'08	-			
min. Earth dist.	-5358 Sep 30 j 16:42	28° ≈ 36'49	28.83981 AU	conjunction	-5351 Apr 15 j 14:53	13°) 12′56	-2°10'07
direct	-5358 Dec 17 j 19:27	27°≈11'39		minimum elong	-5351 Apr 15 j 14:54	13°) 12′56	2°10'14
evening set	-5357 Mar 16 j 16:56	29°≈06'56		max. Earth dist.	-5351 Apr 15 j 14:14	13°) 12′53	30.87565 AU
-	-			morning rise	-5351 May 01 j 21:03	13°) 48′57	
conjunction	-5357 Apr 01 j 22:21	29° ≈ 42'54	-2°18'11	retrograde	-5351 Jul 30 j 07:02	15°) 45′00	
minimum elong	-5357 Apr 01 j 22:21	29° ≈ 42'54	2°18'22	opposition	-5351 Oct 16 j 00:18	14°) 20′50	-2°18'04
max. Earth dist.	-5357 Apr 02 j 04:06	29°≈43′26	30.84123 AU	min. Earth dist.	-5351 Oct 16 j 01:33	14°) € 20'45	28.87915 AU
	-5357 Apr 09 j 14:03	0° ∀		direct	-5350 Jan 02 j 07:49	12°) 55′48	
morning rise	-5357 Apr 18 j 04:32	0°) 18'57		evening set	-5350 Apr 01 j 22:47	14°) 51'38	
retrograde	-5357 Jul 17 j 06:16	2° 升 15'52					
opposition	-5357 Oct 03 j 08:50	0° ¥ 51'16	-2°27'21	conjunction	-5350 Apr 18 j 05:24	15°) €27'39	-2°08'05
min. Earth dist.	-5357 Oct 03 j 03:16		28.84625 AU	minimum elong	-5350 Apr 18 j 05:25	15° ∺ 27'39	2°08'11
	-5357 Nov 04 j 12:57	30° R ≈		max. Earth dist.	-5350 Apr 18 j 02:34		30.87975 AU
direct	-5357 Dec 20 j 07:53	29° ≈ 26'29		morning rise	-5350 May 04 j 11:45	16°) €03'40	
	-5356 Feb 03 j 09:58	0°) €		retrograde	-5350 Aug 01 j 18:39	17°) 59'32	
evening set	-5356 Mar 18 j 07:29	1°) €21'53		opposition	-5350 Oct 18 j 10:35	16°) ₹35'24	-2°15'47
<i>5</i>				min. Earth dist.	-5350 Oct 18 j 12:36		28.88340 AU
conjunction	-5356 Apr 03 j 13:07	1°) 57′52	-2°17'21	direct	-5349 Jan 04 j 19:41	15° ₩ 10'18	
minimum elong	-5356 Apr 03 j 13:07	1°) 57′52		evening set	-5349 Apr 04 j 13:07	17° ₩ 06'10	
max. Earth dist.	-5356 Apr 03 j 18:21		30.84789 AU			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
morning rise	-5356 Apr 19 j 19:14	2°) (33'54		conjunction	-5349 Apr 20 j 20:03	17°) 42'12	-2°05'51
retrograde	-5356 Jul 18 j 18:39	4°) (30'42		minimum elong	-5349 Apr 20 j 20:04	17°) (42'12	
opposition	-5356 Oct 04 j 19:26	3° ₩ 06'12	-2°26'21	max. Earth dist.	-5349 Apr 20 j 17:22		30.88422 AU
min. Earth dist.	-5356 Oct 04 j 15:46		28.85306 AU	morning rise	-5349 May 07 j 02:12	18°) €18'11	
		0		<i>3</i>			

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5349 in astronomical counting style is the year 5350 BCE in historical counting style. -5349 Aug 04 i 05:00 20°**)** 13′53 evening set -5342 Apr 20 j 16:26 2°Y45'42 retrograde -5349 Oct 20 j 21:01 18°**¥**49'48 -2°13'18 opposition min. Earth dist. -5349 Oct 21 j 00:22 18°**)** 49'34 28.88815 AU -5342 May 06 j 23:50 3°Y21'44 -1°45'09 conjunction -5342 May 06 j 23:50 3°Y21'44 1°45'09 -5348 Jan 07 j 08:33 17°**)**€24'38 minimum elong direct -5348 Apr 06 j 03:28 19°**¥**20'33 -5342 May 06 j 15:10 3°**Y**20'56 30.94651 AU evening set max. Earth dist. -5342 May 23 j 05:22 3°Y57'39 morning rise -5348 Apr 22 j 10:22 -5342 Aug 19 j 16:12 5°Υ52'18 conjunction 19°**¥**56'34 -2°03'26 retrograde -5348 Apr 22 j 10:22 4°Y28'50 -1°50'30 minimum elong 19°**¥**56'34 2°03'30 opposition -5342 Nov 04 j 21:15 -5348 Apr 22 j 05:55 4°Υ28'14 28.95273 AU max. Earth dist. 19°**¥**56′10 30.88955 AU min. Earth dist. -5342 Nov 05 j 05:38 morning rise -5348 May 08 j 16:36 20°**)** 32'33 direct -5341 Jan 22 j 22:41 3°**Y**03'35 retrograde -5348 Aug 05 j 17:42 22°**升**28′05 evening set -5341 Apr 23 j 06:49 4°Y59'56 -5348 Oct 22 j 07:16 opposition 21°\(\dagger)04'03 -2°10'37 -5341 May 09 j 14:02 5°**Υ**35'57 -1°41'31 min. Earth dist. -5348 Oct 22 j 10:27 21°**₭**03'49 28.89404 AU conjunction direct -5347 Jan 08 j 20:48 19°**)** 38'49 minimum elong -5341 May 09 j 14:03 5°**Υ**35'57 1°41'30 evening set -5347 Apr 08 j 17:39 21°\ 34'48 max. Earth dist. -5341 May 09 j 03:00 5°**Υ**34'56 30.95676 AU morning rise -5341 May 25 j 19:34 6°Y11'51 conjunction -5347 Apr 25 j 00:43 22°\dagger10'49 -2°00'49 retrograde -5341 Aug 22 j 03:27 8°Y06'20 minimum elong -5347 Apr 25 j 00:44 22°\ 10'49 2°00'54 opposition -5341 Nov 07 j 07:42 6°Y42'57 -1°46'32 max. Earth dist. -5347 Apr 24 j 20:09 22°)(10'24 30.89609 AU min. Earth dist. -5341 Nov 07 j 16:55 6°Υ42'18 28.96253 AU morning rise -5347 May 11 j 06:46 22°**)**(46'47 direct -5340 Jan 25 j 10:06 5°Y17'41 retrograde -5347 Aug 08 j 05:06 24°**)**(42'10 evening set -5340 Apr 24 j 20:53 7°Υ14'03 opposition -5347 Oct 24 i 17:39 23°¥18'11 -2°07'44 min. Earth dist. -5347 Oct 24 i 22:20 23°¥17'51 28.90132 AU conjunction -5340 May 11 i 04:13 7°**Y**′50′05 -1°37′44 direct -5346 Jan 11 i 09:20 21°\ 52'56 minimum elong -5340 May 11 j 04:13 7°Υ50'05 1°37'43 evening set -5346 Apr 11 j 07:44 23°\(\)48'58 max. Earth dist. -5340 May 10 j 17:08 7°**Υ**49'03 30.96604 AU -5340 May 27 j 09:23 8°Y25'57 morning rise -5346 Apr 27 j 14:53 24°\ 24'59 -1°58'02 -5340 Aug 23 j 13:11 10°**Y**20′17 conjunction retrograde -5346 Apr 27 j 14:54 24°\ 24'59 1°58'05 -5340 Nov 08 j 18:13 8°Υ56'57 -1°42'25 minimum elong opposition -5346 Apr 27 j 09:18 24°**)** 24'28 30.90428 AU -5340 Nov 09 j 05:01 8°Υ56'11 28.97126 AU max. Earth dist. min. Earth dist. -5346 May 13 j 20:59 25°**₭**00'56 -5339 Jan 26 j 22:09 7°**Y**31'39 morning rise direct retrograde -5346 Aug 10 j 18:23 -5339 Apr 27 j 11:01 9°Y28'02 26°\ 56'09 evening set -5346 Oct 27 j 03:54 25°\dagger32'16 -2°04'39 opposition -5346 Oct 27 j 08:13 -5339 May 13 j 18:09 10°Y04'03 -1°33'48 min. Earth dist. 25°**₭**31'57 28.91009 AU conjunction -5345 Jan 13 j 23:17 24°**₩**07'00 -5339 May 13 j 18:10 10°**Y**′04′03 1°33′47 direct minimum elong 26°**)**€03'06 -5345 Apr 13 j 21:59 -5339 May 13 j 04:58 10°**Y**02'49 30.97454 AU evening set max. Earth dist. -5339 May 29 j 23:18 10°**Y**39′54 morning rise -5345 Apr 30 j 05:11 26°**¥**39'08 -1°55'04 -5339 Aug 26 j 01:00 12°**Y**34′03 conjunction retrograde minimum elong -5345 Apr 30 j 05:12 26°**¥**39'08 1°55'07 opposition -5339 Nov 11 j 04:29 11° Y 10'46 -1°38'09 max. Earth dist. -5345 Apr 29 j 22:46 26°**)** 38'32 30.91375 AU min. Earth dist. -5339 Nov 11 j 15:24 11°Υ10'00 28.97938 AU morning rise -5345 May 16 j 11:10 27°**)** 15'04 direct -5338 Jan 29 j 10:14 9°Y45'24 retrograde -5345 Aug 13 j 05:32 29°**₭**10'08 evening set -5338 Apr 30 j 00:53 11° **Y**41'49 -5345 Oct 29 j 14:12 27°\ 46'21 -2°01'23 opposition min. Earth dist. -5345 Oct 29 j 20:12 27°**升**45′55 28.92017 AU conjunction -5338 May 16 j 08:07 12°**Y**17'48 -1°29'45 -5344 Jan 16 j 10:29 26°**)**€21'05 -5338 May 16 j 08:07 12°Υ17'48 1°29'43 direct minimum elong -5344 Apr 15 j 12:10 28°**¥**17'16 max. Earth dist. -5338 May 15 j 18:36 12°Υ16'33 30.98239 AU evening set 12°Y53'38 morning rise -5338 Jun 01 j 12:57 -5344 May 01 j 19:29 14°**Y**47'37 conjunction 28°\£53'17 -1°51'56 retrograde -5338 Aug 28 i 11:03 13°**Y**′24′22 -1°33′45 minimum elong -5344 May 01 j 19:30 28°**)** 53'18 1°51'58 opposition -5338 Nov 13 j 14:56 13°**Υ**23'28 28.98702 AU max. Earth dist. -5344 May 01 j 12:43 28° ¥ 52'40 30.92444 AU min. Earth dist. -5338 Nov 14 i 03:41 -5344 May 18 i 01:19 29°\ 29'13 direct -5337 Jan 31 j 23:18 11°**Y**58'57 morning rise -5344 Jun 01 j 17:04 $0^{\circ}\Upsilon$ -5337 May 02 j 14:48 13°**Y**55′22 evening set -5344 Aug 14 j 17:55 1°Y24'09 retrograde -5344 Oct 31 j 00:31 0°Y00'28 -1°57'56 conjunction -5337 May 18 j 21:52 14°**Y**31'21 -1°25'34 opposition 0°**Υ**00'02 28.93103 AU min. Earth dist. -5344 Oct 31 j 06:35 minimum elong -5337 May 18 j 21:52 14°**Υ**31'21 1°25'30 14°Υ29'58 30.99010 AU -5344 Oct 31 j 07:09 30°R**)**€ max. Earth dist. -5337 May 18 j 07:00 28°**)** 35'14 -5337 Jun 04 j 02:34 direct -5343 Jan 17 j 23:39 morning rise 15°**Y**07′08 $0^{\circ}\Upsilon$ 17°**Y**00′57 -5343 Apr 03 j 01:40 retrograde -5337 Aug 30 j 22:59 -5343 Apr 18 j 02:17 0°**Υ**31'28 -5337 Nov 16 j 01:07 15°**Y**37'44 -1°29'12 evening set opposition -5337 Nov 16 j 13:42 15°**Υ**36'51 28.99468 AU min. Earth dist. -5343 May 04 j 09:30 1°**Y**07'30 -1°48'37 -5336 Feb 03 j 13:27 14°**Y**12′17 conjunction direct -5336 May 04 j 04:34 16°**Y**08'42 minimum elong -5343 May 04 j 09:31 1°**Υ**07'30 1°48'38 evening set max. Earth dist. -5343 May 04 j 01:02 1°**Y**06'43 30.93552 AU morning rise -5343 May 20 j 15:18 1°**Y**43′25 conjunction -5336 May 20 j 11:30 16°**Y**44'40 -1°21'16 retrograde -5343 Aug 17 j 06:21 3°**Y**38′13 minimum elong -5336 May 20 j 11:31 16°**Y**44'40 1°21'12 opposition -5343 Nov 02 j 10:56 2°Υ14'39 -1°54'18 max. Earth dist. -5336 May 19 j 19:59 16°**Y**43'14 30.99797 AU min. Earth dist. -5343 Nov 02 j 18:19 2°**Υ**14'07 28.94217 AU -5336 Jun 05 j 15:54 17° Y 20'26 morning rise

-5342 Jan 20 j 10:05

direct

0°Y49'24

-5336 Sep 01 j 09:37

retrograde

19°**Y**14′05

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5336 in astronomical counting style is the year 5337 BCE in historical counting style. 17°**Y**′50′54 -1°24′32 -5336 Nov 17 j 11:35 -5329 Mar 23 j 08:00 0°8 opposition -5336 Nov 18 i 01:38 17°**Υ**49'55 29.00292 AU -5329 May 21 j 02:46 1°839'54 min. Earth dist. evening set -5335 Feb 05 j 01:09 16°**Y**25′25 direct 18°**Y**21′50 -5329 Jun 06 j 08:14 2°815'46 -0°48'09 -5335 May 06 j 17:59 conjunction evening set 18°**Ƴ**56'20 31.00672 AU max. Earth dist. -5335 May 22 j 09:10 -5329 Jun 06 j 08:14 2°815'46 0°48'00 minimum elong max. Earth dist. 2°813'57 31.07664 AU -5329 Jun 05 j 12:41 18°**Y**'57'47 -1°16'50 -5329 Jun 22 j 10:14 conjunction -5335 May 23 j 00:50 morning rise 2°**8**51'21 18°**Y**′57'47 1°16'45 -5335 May 23 j 00:51 -5329 Sep 17 j 11:55 4°844'12 minimum elong retrograde 19°**Ƴ**33'31 -5335 Jun 08 j 04:58 morning rise opposition -5329 Dec 03 j 12:24 3°**8**21'41 -0°48'48 retrograde -5335 Sep 03 j 21:11 21°Y27'01 min. Earth dist. -5329 Dec 04 j 06:50 3°**8**20'23 29.08256 AU opposition -5335 Nov 19 j 21:52 20°**Y**03′54 -1°19′45 direct -5328 Feb 21 j 12:55 1°856'20 20°**Υ**02'55 29.01204 AU -5328 May 22 j 16:11 3°**8**53'01 min. Earth dist. -5335 Nov 20 j 11:44 evening set direct -5334 Feb 07 j 15:06 18°**Ƴ**38'23 evening set -5334 May 09 j 07:37 20°Y34'50 conjunction -5328 Jun 07 j 21:14 4°**8**28'51 -0°43'05 minimum elong -5328 Jun 07 j 21:14 4°**8**28'51 0°42'56 conjunction -5334 May 25 j 14:12 21° Y 10'46 -1° 12' 18 max. Earth dist. -5328 Jun 07 j 00:16 4°**8**26'54 31.08742 AU morning rise minimum elong -5334 May 25 j 14:12 21°**Y**10'46 1°12'13 -5328 Jun 23 j 22:56 5°**8**04'24 max. Earth dist. -5334 May 24 j 21:16 21°**Υ**09'12 31.01645 AU retrograde -5328 Sep 18 j 23:32 6°857'09 morning rise -5334 Jun 10 j 18:06 21°Y46'29 opposition -5328 Dec 04 j 22:59 5°**8**34'42 -0°43'21 retrograde -5334 Sep 06 j 08:51 23°Y39'50 min. Earth dist. -5328 Dec 05 j 17:14 5°**8**33'25 29.09267 AU opposition -5334 Nov 22 j 08:07 22° Y 16'48 -1° 14'51 direct -5327 Feb 23 j 02:22 4°809'21 min. Earth dist. -5334 Nov 22 j 22:48 22°Υ15'46 29.02244 AU evening set -5327 May 25 j 05:19 6°806'03 direct -5333 Feb 10 i 02:15 20°**Y**51'17 evening set -5333 May 11 j 21:06 22°\dagger47'46 conjunction -5327 Jun 10 j 10:04 6°841'51 -0°37'58 max. Earth dist. -5333 May 27 j 11:04 23°Υ22'09 31.02751 AU -5327 Jun 10 j 10:04 6°841'51 0°37'47 minimum elong max. Earth dist. -5327 Jun 09 j 12:22 6°**႘**39'50 31.09690 AU -5333 May 28 j 03:38 23°Y23'41 -1°07'40 -5327 Jun 26 j 11:17 7°817'22 conjunction morning rise -5333 May 28 j 03:39 23°Y23'41 1°07'34 -5327 Sep 21 j 10:04 9°810'01 retrograde minimum elong -5333 Jun 13 j 07:07 23°Y59'22 -5327 Dec 07 j 09:39 7°847'36 -0°37'50 opposition morning rise -5333 Sep 08 j 18:18 25°**Y**52'36 -5327 Dec 08 j 05:36 7°**8**46'12 29.10161 AU retrograde min. Earth dist. 6°**8**22'14 -5333 Nov 24 j 18:32 24°\bar{\gamma}29'40 -1°09'50 -5326 Feb 25 j 13:59 opposition direct -5333 Nov 25 j 09:39 24°Υ28'36 29.03391 AU -5326 May 27 j 18:30 8°818'55 min. Earth dist. evening set 23°Y04'11 -5332 Feb 12 j 15:09 direct 25°**Y**00'42 -5332 May 13 j 10:34 -5326 Jun 12 j 22:54 8°**8**54'41 -0°32'47 evening set conjunction -5326 Jun 12 j 22:55 8°**8**54'41 0°32'37 minimum elong 25°Υ36'36 -1°02'55 -5332 May 29 j 16:42 -5326 Jun 12 j 00:42 8°852'38 31.10535 AU conjunction max. Earth dist. -5332 May 29 j 16:42 -5326 Jun 28 j 23:41 9°**8**30'10 minimum elong 25°**Y**36'36 1°02'49 morning rise max. Earth dist. -5332 May 28 j 22:32 25°**Υ**34'55 31.03957 AU retrograde -5326 Sep 23 j 21:32 11°**8**22'41 morning rise -5332 Jun 14 j 19:58 26°Y12'16 opposition -5326 Dec 09 j 20:06 10°800'18 -0°32'17 retrograde -5332 Sep 10 j 05:14 28°Y05'24 min. Earth dist. -5326 Dec 10 j 16:09 9°**8**58'54 29.10947 AU -5332 Nov 26 j 04:54 26° Y 42'35 -1° 04'42 direct -5325 Feb 28 j 04:52 8°**8**34'54 opposition min. Earth dist. -5332 Nov 26 j 20:15 26°Υ41'30 29.04636 AU -5325 May 30 j 07:38 10°831'35 evening set -5331 Feb 14 j 01:54 25°Y17'08 direct -5331 May 15 j 23:54 27°**Y**13'42 -5325 Jun 15 j 11:34 11°807'19 -0°27'34 evening set conjunction -5325 Jun 15 j 11:35 11°**8**07'19 0°27'23 minimum elong -5331 Jun 01 i 05:57 27°Y49'36 -0°58'05 -5325 Jun 14 j 12:04 conjunction max. Earth dist. 11°**8**05'09 31.11289 AU -5331 Jun 01 i 05:58 minimum elong 27°**Y**49'36 0°57'57 morning rise -5325 Jul 01 i 11:56 11°**8**42'46 max. Earth dist. -5331 May 31 j 12:20 27°Υ47'58 31.05224 AU retrograde -5325 Sep 26 i 08:59 13°**8**35'09 28°Y25'14 morning rise -5331 Jun 17 j 08:43 opposition -5325 Dec 12 i 06:44 12°**8**12'47 -0°26'42 -5331 Aug 10 j 22:28 0°8 min. Earth dist. -5325 Dec 13 i 03:39 12°811'19 29.11686 AU -5331 Sep 12 j 14:49 0°818'16 direct -5324 Mar 01 j 17:23 10°847'21 retrograde evening set -5331 Oct 15 j 19:59 30°RY -5324 May 31 j 20:19 12°844'00 -5331 Nov 28 j 15:19 28°Y55'34 -0°59'29 opposition 28°**Υ**'54'23 29.05901 AU min. Earth dist. -5331 Nov 29 j 08:02 conjunction -5324 Jun 16 j 23:57 13°**8**19'42 -0°22'20 27° Y 30'10 direct -5330 Feb 16 j 12:54 minimum elong -5324 Jun 16 j 23:58 13°**8**19'42 0°22'08 -5330 May 18 j 13:23 29°**Y**26'47 evening set max. Earth dist. -5324 Jun 16 j 00:55 13°**8**17'34 31.12016 AU -5330 Jun 02 j 14:28 0°8 morning rise -5324 Jul 02 j 23:44 13°**8**55'06 -5324 Aug 05 j 02:57 15°8 -5330 Jun 03 j 19:02 0°**8**02'39 -0°53'09 -5324 Sep 27 j 17:43 15°**8**47'22 conjunction retrograde -5330 Jun 03 j 19:02 0°**8**02'39 0°53'01 -5324 Nov 22 j 03:47 15°R minimum elong -5330 Jun 02 j 23:37 0°**8**00'51 31.06486 AU -5324 Dec 13 j 17:21 max. Earth dist. opposition 14°**8**25'01 -0°21'04 morning rise -5330 Jun 19 j 21:37 0°**8**38'17 min. Earth dist. -5324 Dec 14 j 14:41 14°**8**23'32 29.12406 AU retrograde -5330 Sep 15 j 02:18 2°**8**31'13 direct -5323 Mar 04 j 07:01 12°**8**59'33 opposition -5330 Dec 01 j 01:45 1°**8**08'37 -0°54'11 evening set -5323 Jun 03 j 09:06 14°**8**56'10 min. Earth dist. -5330 Dec 01 j 18:23 1°**8**07'27 29.07129 AU -5323 Jun 05 j 03:22 15°8 -5329 Jan 17 j 11:53 30°RY max. Earth dist. -5323 Jun 18 j 11:44 15°**8**29'34 31.12757 AU

direct

-5329 Feb 19 j 00:16

29° Y 43'14

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5323 in astronomical counting style is the year 5324 BCE in historical counting style. -5323 Jun 19 j 12:09 15°**8**31'50 -0°17'04 direct -5317 Mar 18 j 04:25 26°809'51 conjunction -5323 Jun 19 j 12:09 15°**8**31'50 0°16'51 -5317 Jun 17 j 11:23 28°806'29 minimum elong evening set -5323 Jul 05 j 11:34 16°807'11 max. Earth dist. -5317 Jul 02 j 10:49 28°839'38 31.18854 AU morning rise -5323 Sep 30 j 04:19 17°859'20 retrograde -5323 Dec 16 j 03:46 16°837'00 -0°15'25 28°841'55 0°14'51 opposition conjunction -5317 Jul 03 j 11:24 -5323 Dec 17 j 01:03 -5317 Jul 03 j 11:24 28°**8**41'55 0°15'06 min. Earth dist. 16°**8**35'31 29.13185 AU minimum elong -5317 Jul 03 j 09:14 28°841'44 direct -5322 Mar 06 j 18:39 15°**8**11'30 behind sun begin -5317 Jul 03 j 13:34 17°**8**08'06 28°842'07 evening set -5322 Jun 05 j 21:36 behind sun end -5317 Jul 19 j 07:22 29°817'02 max. Earth dist. -5322 Jun 21 j 00:52 17°**8**41'33 31.13569 AU morning rise -5317 Aug 09 j 03:38 $0^{\circ}\Pi$ conjunction -5322 Jun 22 j 00:22 17°**8**43'44 -0°11'47 retrograde -5317 Oct 13 j 16:22 1°**Ⅱ**08'50 -5322 Jun 22 j 00:22 17°843'44 0°11'34 -5317 Dec 21 j 21:43 minimum elong 30°₽₩ -5322 Jun 21 j 19:43 17°843'19 -5317 Dec 29 j 20:09 29°846'52 0°18'36 behind sun begin opposition behind sun end -5322 Jun 22 j 05:00 17°**8**44'09 min. Earth dist. -5317 Dec 30 j 18:49 29°845'18 29.19397 AU morning rise -5322 Jul 07 j 23:06 18°**8**19'02 direct -5316 Mar 19 j 18:37 28°821'34 retrograde -5322 Oct 02 j 13:07 20°811'05 -5316 Jun 10 j 10:47 $0^{\circ}\Pi$ opposition -5322 Dec 18 j 14:27 18°848'47 -0°09'45 evening set -5316 Jun 18 j 23:34 0°**I**I18′12 min. Earth dist. -5322 Dec 19 j 12:35 18°**8**47'14 29.14040 AU direct -5321 Mar 09 j 06:34 17°**8**23'16 conjunction -5316 Jul 04 j 22:53 0°Д53'36 0°20'07 evening set -5321 Jun 08 j 10:10 19°819'51 minimum elong -5316 Jul 04 j 22:53 0°**Ц**53'36 0°20'21 max. Earth dist. -5321 Jun 23 j 11:42 19°**8**53'10 31.14484 AU max. Earth dist. -5316 Jul 03 j 21:20 0°**Д**51'14 31.19854 AU morning rise -5316 Jul 20 j 18:17 1°**I**I28'40 conjunction -5321 Jun 24 j 12:15 19°**8**55'26 -0°06'30 retrograde -5316 Oct 15 i 03:58 3°**Ⅱ**20'27 minimum elong -5321 Jun 24 j 12:15 19°**8**55'26 0°06'16 opposition -5316 Dec 31 i 07:09 1°**Д**58'32 0°24'13 behind sun begin -5321 Jun 24 j 06:04 19°**8**54'54 min. Earth dist. -5315 Jan 01 j 06:27 1°**Д**56'55 29.20356 AU -5321 Jun 24 j 18:25 19°**8**55'59 -5315 Mar 22 j 06:35 0°**Ⅲ**33'15 behind sun end direct -5321 Jul 10 j 10:36 20°830'43 -5315 Jun 21 j 11:39 2°**I**129'54 morning rise evening set -5321 Oct 04 j 23:17 22°822'41 max. Earth dist. -5315 Jul 06 j 09:24 3°**П**02'55 31.20746 AU retrograde -5321 Dec 21 j 01:02 21°800'25 -0°04'05 opposition -5321 Dec 21 j 22:17 20°858'56 29.15012 AU -5315 Jul 07 j 10:31 3°**II**05'15 0°25'21 min. Earth dist. conjunction -5320 Mar 10 j 18:15 -5315 Jul 07 j 10:30 3°**Д**05'15 0°25'36 19°**8**34'55 minimum elong direct -5315 Jul 23 j 05:11 3°**Ⅱ**40′16 -5320 Jun 09 j 22:30 21°**8**31'30 evening set morning rise 5°**Ⅲ**32'01 -5315 Oct 17 j 13:07 max. Earth dist. -5320 Jun 25 j 00:24 22°**8**04'51 31.15507 AU retrograde -5314 Jan 02 j 18:03 4°II10'09 0°29'48 opposition -5320 Jun 26 j 00:13 22°**8**07'04 -0°01'09 -5314 Jan 03 j 17:53 4°**Д**08'30 29.21179 AU conjunction min. Earth dist. -5320 Jun 26 j 00:12 22°**8**07'04 0°00'56 -5314 Mar 24 j 19:59 2°**Ⅱ**44'53 minimum elong direct -5320 Jun 25 j 17:41 22°**8**06'29 -5314 Jun 23 j 23:51 4°**Ⅱ**41'32 behind sun begin evening set behind sun end -5320 Jun 26 j 06:44 22°**8**07'38 morning rise -5320 Jul 11 j 21:51 22°842'17 conjunction -5314 Jul 09 j 21:56 5°II16'50 0°30'32 asc. node -5320 Sep 10 j 22:00 24°**8**22'59 minimum elong -5314 Jul 09 j 21:56 5°**I**16'50 0°30'47 retrograde -5320 Oct 06 j 07:56 24°**8**34'12 max. Earth dist. -5314 Jul 08 j 19:19 5°**I**14'22 31.21507 AU -5320 Dec 22 j 11:47 23°812'00 0°01'36 -5314 Jul 25 j 16:08 5°**I**I51'49 opposition morning rise min. Earth dist. -5320 Dec 23 j 10:07 23°**8**10'27 29.16087 AU -5314 Oct 20 j 00:11 7°**I**I43'31 retrograde -5319 Mar 13 j 05:28 21°**8**46'33 -5313 Jan 05 j 05:02 6°П21'40 0°35'19 direct opposition -5319 Jun 12 j 10:44 23°**8**43'08 min. Earth dist. -5313 Jan 06 j 04:50 6°**Д**20'02 29.21890 AU evening set -5319 Jun 27 j 11:25 24°**8**16'23 31.16626 AU 4°**I**I56'25 max. Earth dist. direct -5313 Mar 27 i 08:11 evening set -5313 Jun 26 j 11:41 6°**I**53′03 24°**8**18'39 conjunction -5319 Jun 28 j 11:51 0°04'17 max. Earth dist. -5313 Jul 11 j 07:34 7°**П**25'55 31.22157 AU minimum elong -5319 Jun 28 j 11:51 24°**8**18'39 0°04'31 behind sun begin -5319 Jun 28 j 05:27 24°818'05 -5313 Jul 12 j 09:17 7°**II**28'18 0°35'41 conjunction behind sun end -5319 Jun 28 i 18:14 24°819'13 -5313 Jul 12 j 09:17 7°**Ⅲ**28'18 0°35'58 minimum elong -5319 Jul 14 j 09:05 24°853'50 -5313 Jul 28 j 02:40 8°**Ⅲ**03'13 morning rise morning rise -5319 Oct 08 j 18:48 26°**8**45'42 -5313 Oct 22 j 09:08 9°**I**I54'54 retrograde retrograde -5312 Jan 07 j 16:11 8°II33'03 0°40'47 opposition -5319 Dec 24 j 22:26 25°**8**23'35 0°07'17 opposition min. Earth dist. -5319 Dec 25 j 20:02 25°**8**22'05 29.17216 AU min. Earth dist. -5312 Jan 08 j 16:57 8°**Д**31'21 29.22496 AU direct -5318 Mar 15 j 17:30 23°**8**58'10 direct -5312 Mar 28 j 20:45 7°**Ⅱ**07'49 evening set -5318 Jun 14 j 23:04 25°**8**54'47 evening set -5312 Jun 27 j 23:33 9°**Ⅱ**04'24 -5318 Jun 30 j 23:39 26°**8**30'16 0°09'34 conjunction -5312 Jul 13 j 20:21 9°**Ц**39'36 0°40'46 conjunction -5318 Jun 30 j 23:39 26°**8**30'16 -5312 Jul 13 j 20:20 9°**I**39'36 0°41'02 minimum elong 0°09'48 minimum elong -5318 Jun 30 j 18:20 26°**8**29'48 -5312 Jul 12 j 17:35 9°**Д**37'07 31.22736 AU behind sun begin max. Earth dist. behind sun end -5318 Jul 01 j 04:58 26°**8**30'44 morning rise -5312 Jul 29 j 13:16 10°**Ⅱ**14'29 26°**8**27'59 31.17754 AU max. Earth dist. -5318 Jun 29 j 23:05 retrograde -5312 Oct 23 j 18:55 12°**Ⅱ**06′07 morning rise -5318 Jul 16 j 20:13 27°**8**05'25 opposition -5311 Jan 09 j 03:07 10°**I**I44'16 0°46'12 retrograde -5318 Oct 11 j 05:09 28°**8**57'15 min. Earth dist. -5311 Jan 10 j 03:01 10°**I**42'38 29.23062 AU -5318 Dec 27 j 09:12 27°**8**35'12 0°12'57 -5311 Mar 31 j 08:44 9°**Ⅱ**19'01 opposition direct min. Earth dist. -5318 Dec 28 j 08:06 27°**8**33'37 29.18343 AU -5311 Jun 30 j 11:00 11°**Ⅱ**15'34 evening set

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5311 in astronomical counting style is the year 5312 BCE in historical counting style. 11°**Д**48'19 31.23286 AU max. Earth dist. -5311 Jul 15 j 05:23 min. Earth dist. -5304 Jan 26 i 08:03 25°II58'32 29.28548 AU -5304 Apr 15 j 19:44 24°**Ⅲ**35'07 direct -5311 Jul 16 j 07:18 11°**I**I50'44 0°45'48 -5304 Jul 15 j 17:28 26°**Ⅲ**31'34 conjunction evening set -5311 Jul 16 j 07:18 11°**II**50'44 0°46'05 -5304 Jul 30 j 09:18 27°**Д**04'10 31.28881 AU max. Earth dist. minimum elong -5311 Jul 31 j 23:27 12°**Ⅲ**25'33 morning rise -5311 Oct 26 j 02:58 14°**Ⅱ**17'09 -5304 Jul 31 j 08:56 27°**I**106'23 1°18'40 retrograde conjunction -5310 Jan 11 j 14:15 12°**I**55'18 0°51'32 -5304 Jul 31 j 08:55 27°**Ⅲ**06′23 opposition minimum elong 1°18'58 -5310 Jan 12 j 15:05 -5304 Aug 15 j 20:27 27°**Ⅱ**40'52 min. Earth dist. 12°**Ⅲ**53'36 29.23626 AU morning rise direct -5310 Apr 02 j 19:57 11°**Ⅲ**30′03 retrograde -5304 Nov 10 j 03:53 29°**Ⅲ**32'38 evening set -5310 Jul 02 j 22:32 13°**Ⅲ**26'33 opposition -5303 Jan 26 j 21:02 28°**Ⅱ**11′00 1°26'19 -5303 Jan 27 j 20:24 min. Earth dist. 28°**Д**09'24 29.29361 AU -5310 Jul 18 j 18:03 14°**Ⅱ**01'40 0°50'45 -5303 Apr 18 j 08:27 conjunction direct 26°**Ⅱ**46′06 -5310 Jul 18 j 18:03 -5303 Jul 18 j 04:31 28°**Ⅱ**42'31 minimum elong 14°**I**101'40 0°51'02 evening set max. Earth dist. -5310 Jul 17 j 15:53 13°**Д**59'13 31.23871 AU morning rise -5310 Aug 03 j 09:39 14°**Ⅲ**36'27 conjunction -5303 Aug 02 j 19:08 29°**Ⅱ**17'17 1°22'58 retrograde -5310 Oct 28 j 12:54 16°**Ⅲ**28'01 minimum elong -5303 Aug 02 j 19:08 29°**Ⅲ**17'17 1°23'17 opposition -5309 Jan 14 j 01:12 15°**Ⅲ**06′11 0°56'47 max. Earth dist. -5303 Aug 01 j 18:39 29°**Ц**14'59 31.29632 AU min. Earth dist. -5309 Jan 15 j 00:52 15°**Д**04'33 29.24243 AU morning rise -5303 Aug 18 j 06:12 29°**Ⅲ**51'44 direct -5309 Apr 05 j 07:19 13°**Ⅱ**40'55 -5303 Aug 22 j 01:32 0ಂತಾ evening set -5309 Jul 05 j 09:55 15°**Ⅲ**37'24 retrograde -5303 Nov 12 j 14:03 1°5643'31 max. Earth dist. -5309 Jul 20 j 03:02 16°**耳**10′04 31.24526 AU opposition -5302 Jan 29 j 08:33 0°921'55 1°30'50 min. Earth dist. -5302 Jan 30 i 06:56 0°520'23 29.30048 AU conjunction -5309 Jul 21 i 04:47 16°**Ⅱ**12'28 0°55'37 -5302 Feb 11 i 21:34 30°RⅡ minimum elong -5309 Jul 21 i 04:46 16°**Ⅱ**12'28 0°55'55 direct -5302 Apr 20 j 20:32 28°II57'03 morning rise -5309 Aug 05 j 19:38 16°**Ⅱ**47'12 -5302 Jun 24 j 06:34 0ಂತಾ -5309 Oct 30 j 22:50 18°**Ⅲ**38'46 -5302 Jul 20 j 15:26 0°953'27 retrograde evening set opposition -5308 Jan 16 j 12:28 17°**I**16′56 1°01′57 max. Earth dist. -5302 Aug 04 j 05:40 1°525'56 31.30231 AU -5308 Jan 17 j 12:36 17°**Ⅱ**15'17 29.24968 AU min. Earth dist. -5308 Apr 06 j 18:07 -5302 Aug 05 j 05:28 15°**I**51'43 conjunction 1°928'09 1°27'09 direct -5308 Jul 06 j 21:02 17°**Ⅱ**48'10 -5302 Aug 05 j 05:27 minimum elong 1°9528'09 1°27'26 evening set -5302 Aug 20 j 15:43 morning rise 2°902'33 -5308 Jul 22 j 15:15 18°**Ⅲ**23'11 1°00'25 -5302 Nov 14 j 22:34 conjunction retrograde 3°954'23 -5308 Jul 22 j 15:14 -5301 Jan 31 j 20:18 18°**Ⅲ**23'11 1°00'42 2°532'46 1°35'14 minimum elong opposition -5308 Jul 21 j 14:20 18°**Ⅲ**20'51 31.25305 AU -5301 Feb 01 j 19:40 2°531'11 29.30585 AU max. Earth dist. min. Earth dist. -5308 Aug 07 j 05:27 18°**Ⅲ**57'52 -5301 Apr 23 j 08:01 1°907'57 morning rise direct -5308 Nov 01 j 09:27 20°**Ⅱ**49'27 -5301 Jul 23 j 02:22 3°904'17 retrograde evening set -5307 Jan 17 j 23:37 19°**Ⅲ**27'39 1°07'02 opposition min. Earth dist. -5307 Jan 18 j 22:48 19°**Ц**26'04 29.25793 AU conjunction -5301 Aug 07 j 15:38 3°538'57 1°31'12 direct -5307 Apr 09 j 07:34 18°**Ⅱ**02'29 minimum elong -5301 Aug 07 j 15:37 3°538'57 1°31'30 -5307 Jul 09 j 08:16 19°**Ⅲ**58'56 max. Earth dist. -5301 Aug 06 j 15:34 3°936'41 31.30701 AU evening set max. Earth dist. -5307 Jul 24 j 00:30 20°**Д**31'32 31.26175 AU morning rise -5301 Aug 23 j 01:22 4°9513'18 -5301 Nov 17 j 08:42 6°905'09 retrograde -5307 Jul 25 j 01:43 20°II33'54 1°05'08 -5300 Feb 03 j 08:01 4°5643'32 1°39'30 conjunction opposition -5307 Jul 25 j 01:42 20°**Ⅲ**33'54 1°05'26 min. Earth dist. -5300 Feb 04 j 06:16 4°5642'01 29.30987 AU minimum elong -5307 Aug 09 j 15:21 21°**Ⅲ**08'32 -5300 Apr 24 j 19:53 3°5518'43 morning rise direct -5307 Nov 03 j 20:56 23°**I**100'09 retrograde evening set -5300 Jul 24 i 12:59 5°9515'00 -5306 Jan 20 j 10:40 21°**I**38'23 1°12'01 opposition max. Earth dist. -5300 Aug 08 i 01:43 5°5047'22 31.31035 AU -5306 Jan 21 i 09:50 min. Earth dist. 21°**Д**36'48 29.26710 AU direct -5306 Apr 11 j 18:26 20°**Ⅲ**13'17 conjunction -5300 Aug 09 i 01:36 5°9549'36 1°35'07 -5306 Jul 11 j 19:23 22°**Ⅱ**09'45 -5300 Aug 09 i 01:35 5°949'36 1°35'24 evening set minimum elong -5300 Aug 24 j 10:41 6°923'55 morning rise -5306 Jul 27 j 12:16 22°II44'39 1°09'45 -5300 Nov 18 j 18:29 8°915'48 conjunction retrograde -5306 Jul 27 j 12:15 22°II44'39 1°10'02 -5299 Feb 04 j 19:48 6°954'09 1°43'36 minimum elong opposition 22°**Ⅱ**42'25 31.27106 AU -5306 Jul 26 j 12:14 max. Earth dist. min. Earth dist. -5299 Feb 05 j 18:43 6°552'35 29.31286 AU morning rise -5306 Aug 12 j 01:08 23°**Ⅱ**19'15 direct -5299 Apr 27 j 06:49 5°9529'20 -5299 Jul 26 j 23:34 retrograde -5306 Nov 06 j 06:24 25°**Ⅱ**10'55 evening set 7°525'33 opposition -5305 Jan 22 j 22:03 23°**II**49'12 1°16'54 -5305 Jan 23 j 21:12 23°**II**47'37 29.27642 AU -5299 Aug 11 j 11:33 8°900'06 1°38'53 min. Earth dist. conjunction -5305 Apr 14 j 07:15 22°**I**I24'10 -5299 Aug 11 j 11:32 1°39'12 direct minimum elong 8°900'06 -5305 Jul 14 j 06:29 24°**Ⅲ**20′38 -5299 Aug 10 j 12:29 7°557'56 31.31292 AU evening set max. Earth dist. morning rise -5299 Aug 26 j 20:02 8°934'22 conjunction -5305 Jul 29 j 22:29 24°**I**55'29 1°14'16 retrograde -5299 Nov 21 j 04:21 10°926'17 minimum elong -5305 Jul 29 j 22:29 24°**Ⅲ**55'29 1°14'35 opposition -5298 Feb 07 j 07:22 9°**©**04'35 1°47'34 max. Earth dist. -5305 Jul 28 j 21:38 24°**I**53'10 31.28025 AU min. Earth dist. -5298 Feb 08 j 05:28 9°503'05 29.31511 AU morning rise -5305 Aug 14 j 10:50 25°**Ⅲ**30′02 direct -5298 Apr 29 j 19:45 7°**©**39'47 -5305 Nov 08 j 18:20 27°**Ⅲ**21'44 -5298 Jul 29 j 10:06 9°935'56 retrograde evening set

-5304 Jan 25 j 09:28

opposition

26°**Ⅲ**00'05 1°21'40

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5298 in astronomical counting style is the year 5299 BCE in historical counting style. -5291 May 15 j 06:17 -5298 Aug 13 j 21:18 10°510'26 1°42'31 direct 22°952'33 conjunction -5298 Aug 13 j 21:18 evening set -5291 Aug 13 j 08:44 minimum elong 10°9510'26 1°42'49 24°9548'28 max. Earth dist. -5298 Aug 12 j 22:01 10°508'15 31.31503 AU -5298 Aug 29 j 05:16 10°9544'40 conjunction -5291 Aug 28 j 15:38 25°522'41 2°03'35 morning rise -5298 Nov 23 j 15:39 -5291 Aug 28 j 15:38 2°03'52 retrograde 12°936'38 minimum elong 25°**©**22'41 opposition -5297 Feb 09 j 19:11 11°**©**14'53 1°51'22 max. Earth dist. -5291 Aug 27 j 21:12 25°920'57 31.34123 AU -5291 Sep 12 j 19:54 -5297 Feb 10 j 16:53 min. Earth dist. 11°**©**13'25 29.31745 AU morning rise 25°956'41 direct -5297 May 02 j 06:17 9°950'05 retrograde -5291 Dec 08 j 15:07 27°5649'19 evening set -5297 Jul 31 j 20:16 11°9546'11 opposition -5290 Feb 25 j 07:08 26°927'37 2°13'16 max. Earth dist. -5297 Aug 15 j 09:20 12°518'37 31.31746 AU min. Earth dist. -5290 Feb 26 j 01:06 26°526'24 29.34399 AU direct -5290 May 17 j 16:42 25°503'19 -5297 Aug 16 j 06:55 -5290 Aug 15 j 18:42 conjunction 12°9520'38 1°46'01 evening set 26°959'12 -5297 Aug 16 j 06:55 minimum elong 12°9520'38 1°46'19 max. Earth dist. -5290 Aug 30 j 07:40 27°531'44 31.34314 AU morning rise -5297 Aug 31 j 14:10 12°954'49 retrograde -5297 Nov 26 j 01:01 14°9546'51 conjunction -5290 Aug 31 j 01:07 27°533'23 2°05'55 opposition -5296 Feb 12 j 07:06 13°**©**25'05 1°55'01 minimum elong -5290 Aug 31 j 01:06 27°533'23 2°06'11 min. Earth dist. -5296 Feb 13 j 04:14 13°**©**23'39 29.32019 AU morning rise -5290 Sep 15 j 04:52 28°907'20 direct -5296 May 03 j 19:18 12°500'19 -5290 Dec 08 j 20:30 $0^{\circ}\Omega$ evening set -5296 Aug 02 j 06:35 13°956'23 retrograde -5290 Dec 11 j 01:17 0°**Ω**00'05 -5290 Dec 13 j 06:31 30°Rூ conjunction -5296 Aug 17 j 16:26 14°930'47 1°49'21 opposition -5289 Feb 27 j 19:29 28°538'22 2°15'40 minimum elong -5296 Aug 17 j 16:25 14°9530'47 1°49'38 min. Earth dist. -5289 Feb 28 i 12:32 28°537'13 29.34509 AU max. Earth dist. -5296 Aug 16 j 18:30 14°528'43 31.32060 AU direct -5289 May 20 i 04:42 27°9514'08 -5296 Sep 01 i 23:17 15°904'55 evening set -5289 Aug 18 j 04:35 29°909'56 morning rise -5296 Nov 27 j 12:59 16°957'01 retrograde -5295 Feb 13 j 18:48 15°935'14 1°58'30 -5289 Sep 02 j 10:22 29°544'05 2°08'05 conjunction opposition -5289 Sep 02 j 10:21 29°9544'05 2°08'21 min. Earth dist. -5295 Feb 14 j 14:42 15°533'53 29.32390 AU minimum elong -5295 May 06 j 07:19 -5289 Sep 01 j 16:31 29°542'24 31.34344 AU 14°9510'32 max. Earth dist. direct -5289 Sep 09 j 11:40 -5295 Aug 04 j 16:37 16°906'34 $0^{\circ}\Omega$ evening set $0^{\circ}\Omega18'01$ -5289 Sep 17 j 13:49 max. Earth dist. -5295 Aug 19 j 05:53 16°539'03 31.32459 AU morning rise -5289 Dec 13 j 13:02 2°Ω10'52 retrograde -5288 Mar 01 j 07:56 -5295 Aug 20 j 02:02 0°**Ω**49'06 2°17'53 conjunction 16°9540'56 1°52'31 opposition -5295 Aug 20 j 02:01 16°9540'56 min. Earth dist. -5288 Mar 02 j 00:39 0°**Ω**47'58 29.34475 AU minimum elong 1°52'50 -5295 Sep 04 j 08:11 17°9515'02 -5288 Apr 02 j 16:17 30°R.55 morning rise -5295 Nov 29 j 22:50 29°524'53 retrograde 19°9507'14 direct -5288 May 21 j 14:21 -5294 Feb 16 j 06:46 opposition 17°545'28 2°01'49 -5288 Jul 07 j 19:44 0 \circ Ω min. Earth dist. -5294 Feb 17 j 02:49 17°5944'06 29.32821 AU evening set -5288 Aug 19 j 14:20 1°**Ω**20'37 -5294 May 08 j 19:46 16°9520'51 direct -5294 Aug 07 j 02:45 18°9516'51 conjunction -5288 Sep 03 j 19:47 1°Ω54'44 2°10'03 evening set minimum elong -5288 Sep 03 j 19:47 1°Ω54'44 2°10'18 -5294 Aug 22 j 11:23 18°951'10 1°55'32 max. Earth dist. -5288 Sep 03 j 03:22 1°Ω53'11 31.34229 AU conjunction -5294 Aug 22 j 11:22 18°951'10 1°55'50 -5288 Sep 18 j 22:43 2°**£**28'39 minimum elong morning rise -5294 Aug 21 j 15:10 18°5549'16 31.32918 AU -5288 Dec 14 j 22:54 4°**Ω**21'34 max. Earth dist. retrograde -5294 Sep 06 j 17:09 19°9525'15 -5287 Mar 03 j 20:12 2°**Ω**59'44 2°19'53 morning rise opposition -5294 Dec 02 j 09:14 -5287 Mar 04 j 12:41 2°Ω58'38 29.34288 AU retrograde 21°9517'32 min. Earth dist. opposition -5293 Feb 18 i 18:40 19°955'48 2°04'57 direct -5287 May 24 i 03:27 1°**Ω**35'33 min. Earth dist. -5293 Feb 19 i 13:04 19°554'33 29.33293 AU evening set -5287 Aug 22 i 00:06 3°Ω31'12 direct -5293 May 11 j 07:32 18°931'16 max. Earth dist. -5287 Sep 05 j 11:58 4°**Ω**03'40 31.33987 AU evening set -5293 Aug 09 j 12:46 20°9527'15 -5287 Sep 06 i 04:55 4°Ω05'16 2°11'50 conjunction -5293 Aug 24 j 20:53 21°501'33 1°58'24 -5287 Sep 06 i 04:55 4°Ω05'16 2°12'07 conjunction minimum elong -5293 Aug 24 j 20:53 -5287 Sep 21 j 07:42 4°Ω39'09 minimum elong 21°901'33 1°58'42 morning rise -5293 Aug 24 j 01:54 20°559'46 31.33379 AU -5287 Dec 17 j 11:31 6° £32'09 max. Earth dist. retrograde morning rise -5293 Sep 09 j 02:02 21°935'36 opposition -5286 Mar 06 j 08:33 5° Ω 10'14 2°21'42 retrograde -5293 Dec 04 j 18:27 23°9528'00 min. Earth dist. -5286 Mar 06 j 23:55 5°**Ω**09'12 29.34004 AU 3°**Ω**46′02 -5292 Feb 21 j 06:52 22°906'17 2°07'55 direct -5286 May 26 j 15:30 opposition min. Earth dist. -5292 Feb 22 j 01:44 22°505'00 29.33751 AU -5286 Aug 24 j 09:31 5°**Ω**41'36 evening set -5292 May 12 j 18:43 direct 20°9541'51 -5286 Sep 08 j 14:02 6°Ω15'38 2°13'26 evening set -5292 Aug 10 j 22:41 22°937'48 conjunction max. Earth dist. -5292 Aug 25 j 11:32 23°510'18 31.33807 AU minimum elong -5286 Sep 08 j 14:02 6°**Ω**15'38 2°13'41 max. Earth dist. -5286 Sep 07 j 22:51 6°**Ω**14'12 31.33660 AU conjunction -5292 Aug 26 j 06:11 23°512'03 2°01'05 morning rise -5286 Sep 23 j 16:19 6°**Ω**49'30 minimum elong -5292 Aug 26 j 06:11 23°9512'03 2°01'21 retrograde -5286 Dec 19 j 21:17 8°**Ω**42'35 morning rise -5292 Sep 10 j 10:56 23°9546'05 opposition -5285 Mar 08 j 21:05 7°**Ω**20'34 2°23'19 retrograde -5292 Dec 06 j 04:55 25°538'36 min. Earth dist. -5285 Mar 09 j 12:30 7°**Ω**19'32 29.33664 AU 24°9516'54 -5285 May 29 j 03:56 5°**Ω**56'23 opposition -5291 Feb 22 j 18:58 2°10'41 direct -5291 Feb 23 j 12:25 24°515'43 29.34132 AU 7°**Ω**51′50 min. Earth dist. evening set -5285 Aug 26 j 19:00

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5285 in astronomical counting style is the year 5286 BCE in historical counting style. -5285 Sep 10 j 22:58 8°Ω25'50 2°14'51 max. Earth dist. -5279 Sep 22 i 20:00 21°Ω25'48 31.32480 AU conjunction -5285 Sep 10 j 22:58 8°**Ω**25'50 2°15'07 -5279 Oct 08 j 05:06 22°**Ω**00′23 minimum elong morning rise max. Earth dist. -5285 Sep 10 j 08:03 8°**Ω**24'25 31.33330 AU -5278 Jan 03 j 22:40 23°**Ω**54'19 retrograde -5285 Sep 26 j 01:05 -5278 Mar 24 j 12:47 8°**Ω**59'40 22°Ω32'02 2°28'46 morning rise opposition -5285 Dec 22 j 07:56 10°**Ω**52'50 22°**Ω**31'27 29.32570 AU retrograde min. Earth dist. -5278 Mar 24 j 21:15 -5284 Mar 10 j 09:27 opposition 9°**Ω**30'44 2°24'43 direct -5278 Jun 13 j 11:20 21°**Ω**08′16 min. Earth dist. -5284 Mar 10 j 22:51 9°**Ω**29'50 29.33356 AU evening set -5278 Sep 10 j 11:23 23°**Ω**03′13 direct -5284 May 30 j 16:17 8°**Ω**06'34 evening set -5284 Aug 28 j 04:13 10°**Ω**01'55 conjunction -5278 Sep 25 j 13:06 23°**Ω**37'06 2°19'16 -5278 Sep 25 j 13:06 23°**Ω**37'06 2°19'27 minimum elong conjunction -5284 Sep 12 j 07:52 10°**Ω**35'54 2°16'04 max. Earth dist. -5278 Sep 25 j 04:31 23°**Ω**36'17 31.32279 AU -5284 Sep 12 j 07:52 -5278 Oct 10 j 13:57 minimum elong 10°**Ω**35'54 2°16'18 morning rise 24°Ω10'54 -5284 Sep 11 j 18:23 -5277 Jan 06 j 12:05 max. Earth dist. 10°**Ω**34'37 31.33041 AU retrograde 26°**Ω**04'59 morning rise -5284 Sep 27 j 09:38 11°**Ω**09'43 opposition -5277 Mar 27 j 01:37 24°**Ω**42'39 2°28'42 retrograde -5284 Dec 23 j 17:32 13°**Ω**02'58 min. Earth dist. -5277 Mar 27 j 08:48 24°**Ω**42'10 29.32314 AU opposition -5283 Mar 12 j 21:58 11°Ω40'49 2°25'56 direct -5277 Jun 15 j 22:11 23°**Ω**18'57 min. Earth dist. -5283 Mar 13 j 11:19 11°**Ω**39'55 29.33113 AU evening set -5277 Sep 12 j 20:32 25°**Ω**13'51 direct -5283 Jun 02 j 04:23 10°**Ω**16'40 evening set -5283 Aug 30 j 13:30 12°**Ω**11'56 conjunction -5277 Sep 27 j 22:13 25° Ω47'44 2°19'06 minimum elong -5277 Sep 27 j 22:13 25° Ω47'44 2°19'18 conjunction -5283 Sep 14 j 16:45 12°**Ω**45'53 2°17'06 max. Earth dist. -5277 Sep 27 j 15:10 25°**Ω**47'04 31.31951 AU minimum elong -5283 Sep 14 j 16:45 12°Ω45'53 2°17'20 morning rise -5277 Oct 12 j 22:51 26°**Ω**21'32 max. Earth dist. -5283 Sep 14 i 04:14 12°Ω44'42 31.32843 AU retrograde -5276 Jan 08 j 22:56 28°**Ω**15'46 morning rise -5283 Sep 29 i 18:17 13°**Ω**19'42 opposition -5276 Mar 28 j 14:31 26°Ω53'22 2°28'26 -5283 Nov 28 j 05:42 15°Ω min. Earth dist. -5276 Mar 28 j 21:56 26°Ω52'53 29.31919 AU -5283 Dec 26 j 03:48 15°**Ω**13'03 -5276 Jun 17 j 09:38 25°Ω29'44 retrograde direct -5282 Jan 23 j 17:59 -5276 Sep 14 j 05:42 15°RΩ evening set 27°**Ω**24'33 -5282 Mar 15 j 10:16 13°Ω50'51 2°26'55 opposition 13°**Ω**50′06 29.32949 AU -5276 Sep 29 j 07:09 27°Ω58'25 2°18'44 min. Earth dist. -5282 Mar 15 j 21:34 conjunction 12°**Ω**26'46 -5276 Sep 29 j 07:09 27°Ω58'25 2°18'55 direct -5282 Jun 04 j 16:37 minimum elong -5276 Sep 29 j 00:09 27°**Ω**57'45 31.31494 AU evening set -5282 Sep 01 j 22:45 14°**Ω**21'58 max. Earth dist. -5276 Oct 14 j 07:53 28°**Ω**32'14 morning rise -5282 Sep 17 j 01:37 14°Ω55'54 2°17'56 conjunction -5276 Dec 01 j 04:11 0° m -5282 Sep 17 j 01:37 14°Ω55'54 2°18'09 -5275 Jan 10 j 10:39 0° m 26'34 minimum elong retrograde 30°R€ -5282 Sep 16 j 13:49 14°**Ω**54'47 31.32717 AU -5275 Feb 21 j 03:08 max. Earth dist. -5282 Sep 18 j 21:09 15°€ -5275 Mar 31 j 03:17 29°**Ω**04'07 2°27'56 opposition -5282 Oct 02 j 02:58 15°**Ω**29'42 29°**Ω**03'44 29.31385 AU morning rise min. Earth dist. -5275 Mar 31 j 08:59 retrograde -5282 Dec 28 j 14:02 17°**Ω**23'12 direct -5275 Jun 19 j 21:57 27°**Ω**40'31 opposition -5281 Mar 17 j 22:55 16°**Ω**00'57 2°27'42 evening set -5275 Sep 16 j 14:46 29°**Ω**35'14 min. Earth dist. -5281 Mar 18 j 09:58 16°**Ω**00'13 29.32863 AU -5275 Sep 27 j 15:45 0° m -5281 Apr 29 j 01:27 15°RΩ -5281 Jun 07 j 02:39 14°**Ω**36'57 -5275 Oct 01 j 16:06 0° Mp 09'07 2°18'11 direct conjunction -5281 Jul 14 j 21:38 15°**Ω** -5275 Oct 01 j 16:07 0° **m** 09'07 $2^{\circ}18'22$ minimum elong -5281 Sep 04 j 07:47 16°**Ω**32'04 -5275 Oct 01 j 10:00 0° 1008'32 31.30889 AU evening set max. Earth dist. -5275 Oct 16 j 16:48 0°M/42'56 morning rise 17°Ω05'59 2°18'34 conjunction -5281 Sep 19 i 10:26 retrograde -5274 Jan 12 j 21:18 2° m 37'23 minimum elong -5281 Sep 19 i 10:26 17°**Ω**05'59 2°18'47 opposition -5274 Apr 02 j 16:10 1° m 14'51 2°27'15 max. Earth dist. -5281 Sep 19 i 00:25 17°**Ω**05'02 31.32655 AU min. Earth dist. -5274 Apr 02 j 22:09 1° Mp 14'27 29.30728 AU morning rise -5281 Oct 04 i 11:32 17°**Ω**39'47 -5274 May 29 j 22:06 30°RΩ retrograde -5281 Dec 30 j 23:58 19°Ω33'25 -5274 Jun 22 j 10:19 29°Ω51'16 direct -5280 Mar 19 j 11:30 18°Ω11'10 2°28'16 -5274 Jul 15 j 10:23 0° m opposition min. Earth dist. -5280 Mar 19 j 21:09 18°**Ω**10'31 29.32800 AU -5274 Sep 18 j 23:46 1° m 45'53 evening set -5280 Jun 08 j 14:11 16°**Ω**47'14 direct 2° **m** 19'45 $2^{\circ}17'26$ evening set -5280 Sep 05 j 17:02 18°**Ω**42'18 conjunction -5274 Oct 04 j 01:02 minimum elong -5274 Oct 04 j 01:02 2° m 19'45 2°17'35 conjunction -5280 Sep 20 j 19:16 19°**Ω**16'13 2°19'00 max. Earth dist. -5274 Oct 03 j 19:55 2° 10/16 31.30203 AU minimum elong -5280 Sep 20 j 19:17 19°Ω16'13 2°19'12 morning rise -5274 Oct 19 j 01:45 2° m 53'35 -5280 Sep 20 j 09:13 19°**Ω**15'16 31.32589 AU -5273 Jan 15 j 08:11 4° Mp 48'08 max. Earth dist. retrograde -5280 Oct 05 j 20:22 19°**Ω**50′01 -5273 Apr 05 j 04:59 3° m/25'31 2°26'21 morning rise opposition -5279 Jan 01 j 12:07 21°**Ω**43'48 3° m 25'14 29.30005 AU retrograde min. Earth dist. -5273 Apr 05 j 09:02 -5273 Jun 24 j 23:07 2° m 01'57 opposition -5279 Mar 22 j 00:01 20°**Ω**21'31 2°28'38 direct min. Earth dist. -5279 Mar 22 j 09:01 20°**Ω**20'55 29.32727 AU evening set -5273 Sep 21 j 08:35 3° M 56'27 direct -5279 Jun 10 j 23:05 18°**Ω**57'40 evening set -5279 Sep 08 j 02:10 20°**Ω**52'42 conjunction -5273 Oct 06 j 09:43 4° m/30'18 2°16'29 minimum elong -5273 Oct 06 j 09:43 4° m/30'18 2°16'39 -5279 Sep 23 j 04:18 21°**Ω**26'35 2°19'14 -5273 Oct 06 j 05:09 4° m/29'52 31.29471 AU conjunction max. Earth dist. -5279 Sep 23 j 04:18 21° Ω 26'35 2°19'27 -5273 Oct 21 j 10:36 5° m 04'10 minimum elong morning rise

Planetary Pheno	omena of Neptune f	rom -5400	through -4898	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 11
•	nical year style is used: Th		-				
retrograde	-5272 Jan 17 j 18:10	6° Mp 58'49		minimum elong	-5266 Oct 20 j 23:49	19° m 45'01	2°04'34
opposition	-5272 Apr 06 j 17:54	5° m/36'06	2°25'14	max. Earth dist.	-5266 Oct 21 j 03:02	19° m 45'19	31.25924 AU
min. Earth dist.	-5272 Apr 06 j 21:44	5° m/35'50	29.29286 AU	morning rise	-5266 Nov 05 j 01:58	20° m/19'02	
direct	-5272 Jun 26 j 09:34	4° m) 12'33		retrograde	-5265 Feb 02 j 04:09	22° m/ 14'39	
evening set	-5272 Sep 22 j 17:23	6° m) 06'55		opposition	-5265 Apr 23 j 12:22	20° m 51'33	2°11'42
				min. Earth dist.	-5265 Apr 23 j 08:56		29.25804 AU
conjunction	-5272 Oct 07 j 18:36	6° ™ 40'47	2°15'21	direct	-5265 Jul 12 j 13:42	19° m) 28'26	_,,
minimum elong	-5272 Oct 07 j 18:37	6° Mp 40'48		evening set	-5265 Oct 08 j 07:13	21° m) 22'14	
max. Earth dist.	-5272 Oct 07 j 16:00		31.28775 AU	evening sec	0200 000 00 j 07.15		
morning rise	-5272 Oct 22 j 19:28	7° m) 14'39	31.20,75110	conjunction	-5265 Oct 23 j 08:56	21° m 56'12	2°02'02
retrograde	-5271 Jan 19 j 03:27	9° m) 09'26		minimum elong	-5265 Oct 23 j 08:57	21° m 56'12	
opposition	-5271 Apr 09 j 06:32	7° m) 46'37	2°23'55	max. Earth dist.	-5265 Oct 23 j 13:12		31.25374 AU
min. Earth dist.	-5271 Apr 09 j 08:43		29.28614 AU	morning rise	-5265 Nov 07 j 11:22	22° m/30'14	31.23374710
direct	-5271 Jun 28 j 21:23	6° m) 23'06	27.20014 AU	retrograde	-5264 Feb 04 j 16:05	24° Mp 26'00	
evening set	-5271 Sep 25 j 02:18	8° m) 17'23		opposition	-5264 Apr 25 j 01:26	23° My 02'50	2000150
evening set	-32/1 Sep 23 J 02.18	0 IIJ1/23		min. Earth dist.	-5264 Apr 24 j 20:18		29.25177 AU
	5271 0-4 10:02-21	00 m , 5 111 5	2°14'01		-5264 Jul 14 j 02:17		29.23177 AU
conjunction	-5271 Oct 10 j 03:21	8° m 51'15		direct	=	21° Mp 39'46	
minimum elong	-5271 Oct 10 j 03:21			evening set	-5264 Oct 09 j 16:24	23° m 33'29	
max. Earth dist.	-5271 Oct 10 j 00:54	~	31.28150 AU		5064 O + 04 10 11	2.40 % 0.7120	1050124
morning rise	-5271 Oct 25 j 04:29	9° m/25'08		conjunction	-5264 Oct 24 j 18:11	24° Mp 07'28	1°59'24
retrograde	-5270 Jan 21 j 15:38	11° m) 20'02		minimum elong	-5264 Oct 24 j 18:12	24° m) 07'28	1°59'26
opposition	-5270 Apr 11 j 19:25	9° m 57'09		max. Earth dist.	-5264 Oct 24 j 22:23	-	31.24677 AU
min. Earth dist.	-5270 Apr 11 j 20:29		29.28042 AU	morning rise	-5264 Nov 08 j 21:02	24° m/41'33	
direct	-5270 Jul 01 j 06:27	8° m 33'41		retrograde	-5263 Feb 06 j 03:11	26° TD 37'26	
evening set	-5270 Sep 27 j 10:55	10° m 27'52		opposition	-5263 Apr 27 j 14:30	25° Mp 14'12	
				min. Earth dist.	-5263 Apr 27 j 09:36	25° Mp 14'31	29.24409 AU
conjunction	-5270 Oct 12 j 12:08	11° m 01'44		direct	-5263 Jul 16 j 12:54	23° m 51'10	
minimum elong	-5270 Oct 12 j 12:08	11° m)01'44	2°12'37	evening set	-5263 Oct 12 j 01:25	25° m 44'47	
max. Earth dist.	-5270 Oct 12 j 11:56	11° m 01'43	31.27624 AU				
morning rise	-5270 Oct 27 j 13:16	11° m 35'39		conjunction	-5263 Oct 27 j 03:35	26° Mp 18'47	1°56'35
retrograde	-5269 Jan 24 j 02:00	13° m 30'41		minimum elong	-5263 Oct 27 j 03:35	26° Mp 18'47	1°56'38
opposition	-5269 Apr 14 j 08:23	12° m 07'45	2°20'40	max. Earth dist.	-5263 Oct 27 j 09:20	26° Mp 19'19	31.23842 AU
min. Earth dist.	-5269 Apr 14 j 08:22	12° m 07'45	29.27550 AU	morning rise	-5263 Nov 11 j 06:38	26° m 52'54	
direct	-5269 Jul 03 j 18:22	10° m 44'21		retrograde	-5262 Feb 08 j 13:24	28° m 48'53	
evening set	-5269 Sep 29 j 19:47	12° m 38'27		opposition	-5262 Apr 30 j 03:38	27° m 25'33	2°02'59
				min. Earth dist.	-5262 Apr 29 j 21:32	27° mp 25'58	29.23490 AU
conjunction	-5269 Oct 14 j 20:55	13° Mp 12'20	2°10'47	direct	-5262 Jul 19 j 01:35	26° m 02'33	
minimum elong	-5269 Oct 14 j 20:56	13° m) 12'20		evening set	-5262 Oct 14 j 10:26	27° m 56'02	
max. Earth dist.	-5269 Oct 14 j 20:54		31.27186 AU	Č	,	•	
morning rise	-5269 Oct 29 j 22:25	13° m) 46'16		conjunction	-5262 Oct 29 j 12:41	28° m 30'04	1°53'36
retrograde	-5268 Jan 26 j 15:34	15° mp 41'27		minimum elong	-5262 Oct 29 j 12:41	28° m) 30'04	
opposition	-5268 Apr 15 j 21:12	14° m) 18'28	2°18'44	max. Earth dist.	-5262 Oct 29 j 18:10		31.22876 AU
min. Earth dist.	-5268 Apr 15 j 19:32		29.27140 AU	morning rise	-5262 Nov 13 j 16:18	29° mg 04'13	
direct	-5268 Jul 05 j 03:47	12° m 55'08	23.271.0110	morning not	-5262 Dec 10 j 22:53	0∘ ⊽	
evening set	-5268 Oct 01 j 04:30	14° m/49'10		retrograde	-5261 Feb 11 j 02:00	1° 亞 00'19	
evening sec	3200 Oct 01 j 01.50	11 11/1/210		retrograde	-5261 Apr 18 j 05:42	30°R, Mp	
conjunction	-5268 Oct 16 j 05:51	15° m 23'04	2°08'53	opposition	-5261 May 02 j 16:50	29° Mg 36'53	1°59'43
minimum elong	-5268 Oct 16 j 05:52	15° m) 23'04		min. Earth dist.	-5261 May 02 j 10:07		29.22476 AU
max. Earth dist.	-5268 Oct 16 j 07:40		31.26787 AU	direct	-5261 Jul 21 j 11:34	28° m 13'53	27.22710 AU
	-5268 Oct 31 j 07:28	15° m 57'01	31.20/8/ AU	direct	-5261 Oct 13 j 12:11	0° ⊽	
morning rise retrograde	-5267 Jan 28 j 02:39	13° my 52'22		evening set	-5261 Oct 16 j 19:22	0° ച 0° ച 07'15	
•			2016125	evening set	-3201 Oct 10 j 19.22	0 = 0/13	
opposition	-5267 Apr 18 j 10:13	16° Th 29'20			5261 0 4 21 : 22 02	00 0 41110	1050120
min. Earth dist.	-5267 Apr 18 j 08:26		29.26737 AU	conjunction	-5261 Oct 31 j 22:02	0° Ω 41'18	1°50'28
direct	-5267 Jul 07 j 14:05	15° Mp 06'05		minimum elong	-5261 Oct 31 j 22:03	0° Ω 41'18	1°50'30
evening set	-5267 Oct 03 j 13:22	17° Mp 00'03		max. Earth dist.	-5261 Nov 01 j 05:24		31.21830 AU
	50 (5)	180	2006:17	morning rise	-5261 Nov 16 j 01:55	1° Ω 15'30	
conjunction	-5267 Oct 18 j 14:44	17° m 33'57		retrograde	-5260 Feb 13 j 12:03	3° ≏ 11'41	
minimum elong	-5267 Oct 18 j 14:44	17° m 33'58		opposition	-5260 May 04 j 05:48	1° ≏ 48'08	1°56'16
max. Earth dist.	-5267 Oct 18 j 17:05		31.26387 AU	min. Earth dist.	-5260 May 03 j 22:21		29.21405 AU
morning rise	-5267 Nov 02 j 16:38	18° m 07'57		direct	-5260 Jul 22 j 23:31	0° ჲ 25'08	
retrograde	-5266 Jan 30 j 15:39	20° My $03'25$		evening set	-5260 Oct 18 j 04:23	2° ≏ 18'24	
opposition	-5266 Apr 20 j 23:08	18° m 40'22	2°14'15				
min. Earth dist.	-5266 Apr 20 j 19:29	18° m 40'37	29.26308 AU	conjunction	-5260 Nov 02 j 07:13	2° ≏ 52'28	1°47'10
direct	-5266 Jul 10 j 02:02	17° M)17'11		minimum elong	-5260 Nov 02 j 07:14	2° ≏ 52'28	1°47'10
evening set	-5266 Oct 05 j 22:19	19° m 11'04		max. Earth dist.	-5260 Nov 02 j 14:39	2° ≏ 53'10	31.20773 AU
	-			morning rise	-5260 Nov 17 j 11:40	3° ≏ 26'42	
conjunction	-5266 Oct 20 j 23:48	19° m 45'01	2°04'30	retrograde	-5259 Feb 15 j 01:12	5° Ω 23'00	
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Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5259 in astronomical counting style is the year 5260 BCE in historical counting style. -5259 May 06 j 18:45 3°**2**59'21 1°52'40 max. Earth dist. -5253 Nov 18 i 15:32 18° **2**14'40 31.14963 AU opposition 3°**ჲ**59'58 29.20361 AU -5259 May 06 j 09:46 -5253 Dec 03 j 09:25 min. Earth dist. morning rise 18°**£**47'55 -5259 Jul 25 j 09:09 2°**£**36'21 -5252 Mar 02 j 16:34 20°**£**45'08 direct retrograde -5252 May 22 j 13:43 -5259 Oct 20 j 13:15 4°**£**29'31 19°**₽**21'08 1°23'03 evening set opposition 19°**≏**22'08 29.14598 AU min. Earth dist. -5252 May 21 j 22:52 -5259 Nov 04 j 16:27 conjunction 5°**ഫ**03'37 1°43'43 direct -5252 Aug 09 j 14:56 17°**£**58'29 -5259 Nov 04 j 16:28 minimum elong 5°**ഫ**03'38 1°43'43 evening set -5252 Nov 04 j 05:39 19°**£**51'15 max. Earth dist. -5259 Nov 05 j 01:40 5°**♀**04'30 31.19750 AU 5°**£**37'54 morning rise -5259 Nov 19 j 21:12 conjunction -5252 Nov 19 j 11:35 20°**£**25'37 1°15'32 retrograde -5258 Feb 17 j 12:10 7°**△**34'19 minimum elong -5252 Nov 19 j 11:35 20°**£**25'37 1°15'27 opposition -5258 May 09 j 07:48 6°**₽**10'35 1°48'54 max. Earth dist. -5252 Nov 20 j 03:02 20°**2**27'05 31.14061 AU -5258 May 08 j 22:30 min. Earth dist. 6°**£**11'12 29.19375 AU morning rise -5252 Dec 04 j 19:52 21°**₽**00'15 -5258 Jul 27 j 19:20 direct 4°**£**47'36 retrograde -5251 Mar 05 j 02:43 22°**♀**57'35 evening set -5258 Oct 22 j 22:15 6°**£**40'42 min. Earth dist. -5251 May 24 j 11:35 21°**♀**34'33 29.13621 AU opposition -5251 May 25 j 02:48 21°**♀**33'31 1°18'16 conjunction -5258 Nov 07 j 01:45 7°**₽**14'49 1°40'07 direct -5251 Aug 12 j 02:47 20°**♀**10'54 minimum elong -5258 Nov 07 j 01:45 7°**₽**14'49 1°40'06 evening set -5251 Nov 06 j 15:14 22°**₽**03'36 max. Earth dist. -5258 Nov 07 j 11:47 7°**2**15'46 31.18827 AU morning rise -5258 Nov 22 j 07:00 7°**-**49′08 conjunction -5251 Nov 21 j 21:29 22°**₽**38′00 1°11'01 retrograde -5257 Feb 20 j 01:42 9°**£**45'41 minimum elong -5251 Nov 21 j 21:29 22°**♀**38'00 1°10'56 opposition -5257 May 11 j 20:42 8°**£**21'53 1°44'58 max. Earth dist. -5251 Nov 22 j 12:34 22° 239'26 31.13029 AU min. Earth dist. -5257 May 11 i 09:16 8°**₽**22'39 29.18492 AU morning rise -5251 Dec 07 i 06:25 23°**£**12'41 -5257 Jul 30 i 06:55 6°**£**58'56 retrograde -5250 Mar 07 i 15:51 25° **2**10'08 direct evening set -5257 Oct 25 j 07:14 8°**£**51'58 opposition -5250 May 27 j 15:54 23°**-**45′58 1°13'22 min. Earth dist. -5250 May 26 j 23:41 23°**2**47'05 29.12518 AU -5257 Nov 09 j 11:05 9°**£**26'08 1°36'22 -5250 Aug 14 j 12:31 22°**₽**23'21 conjunction direct -5257 Nov 09 j 11:05 -5250 Nov 09 j 00:52 24°**£**15'58 9° \alpha 26'08 1°36'21 evening set minimum elong -5257 Nov 09 j 22:05 9°**2**27'11 31.17988 AU max. Earth dist. -5250 Nov 24 j 07:38 1°06'23 -5257 Nov 24 j 16:52 10°**£**00'30 conjunction 24°**♀**50'25 morning rise -5256 Feb 22 j 14:55 -5250 Nov 24 j 07:39 retrograde 11°**♀**57'11 minimum elong 24°**£**50'25 1°06'16 -5256 May 13 j 09:46 -5250 Nov 24 j 23:48 10°**△**33'19 1°40'53 max. Earth dist. 24°**£**51'56 31.11861 AU opposition -5250 Dec 09 j 17:06 -5256 May 12 j 22:19 min. Earth dist. 10°**2**34'05 29.17691 AU 25°**£**25'08 morning rise -5256 Jul 31 j 17:56 9°**₽**10'27 -5249 Mar 10 j 03:09 27°**£**22'40 direct retrograde -5256 Oct 26 j 16:17 -5249 May 30 j 04:58 25°**2**58'24 1°08'22 evening set 11°**♀**03'25 opposition -5249 May 29 j 13:04 min. Earth dist. 25°**⊆**59'29 29.11290 AU -5256 Nov 10 j 20:35 conjunction 11°**♀**37'37 1°32'28 direct -5249 Aug 16 j 22:57 24°**£**35'45 -5249 Nov 11 j 10:28 minimum elong -5256 Nov 10 j 20:35 11°**△**37'37 1°32'25 evening set 26°**£**28'17 max. Earth dist. -5256 Nov 11 j 08:59 11°**♀**38'48 31.17228 AU morning rise -5256 Nov 26 j 02:46 12°**♀**12'02 conjunction -5249 Nov 26 j 17:45 27°**2**02'46 1°01'39 retrograde -5255 Feb 24 j 03:23 14°**≙**08'51 minimum elong -5249 Nov 26 j 17:45 27°**♀**02'46 1°01'32 -5255 May 15 j 22:32 12°**2**44′57 1°36′38 max. Earth dist. -5249 Nov 27 j 10:19 27°**♀**04'20 31.10607 AU opposition -5255 May 15 j 09:09 12°**♀**45'51 29.16939 AU -5249 Dec 12 j 03:50 27°**♀**37'32 min. Earth dist. morning rise -5255 Aug 03 j 05:54 11°**£**22'08 -5248 Mar 11 j 16:40 29°**£**35′08 direct retrograde 13°**≏**15'04 -5255 Oct 29 j 01:31 -5248 May 31 j 17:50 28°**2**10'45 1°03'15 evening set opposition min. Earth dist. -5248 May 31 j 00:26 28°**£**11'56 29.09999 AU conjunction -5255 Nov 13 i 06:03 13° **△**49'19 1°28'26 direct -5248 Aug 18 j 10:46 26°**-**48′03 minimum elong -5255 Nov 13 i 06:04 13°**-**49′19 1°28'24 evening set -5248 Nov 12 j 20:10 28°**♀**40'30 max. Earth dist. -5255 Nov 13 j 18:40 13°**2**50'30 31.16496 AU morning rise -5255 Nov 28 i 12:53 14°**£**23'47 conjunction -5248 Nov 28 i 03:51 29° **2**15'01 0°56'50 -5254 Feb 26 j 15:35 16°**£**20'44 minimum elong -5248 Nov 28 i 03:51 29°**₽**15'01 0°56'41 retrograde -5254 May 18 j 11:41 14°**£**56'48 1°32'15 max. Earth dist. -5248 Nov 28 j 20:53 29°**2**16'38 31.09299 AU opposition 14°**≙**57'43 29.16210 AU min. Earth dist. -5254 May 17 j 22:19 -5248 Dec 13 j 14:32 29°**£**49'50 morning rise -5254 Aug 05 j 16:17 13°**♀**34'04 -5248 Dec 18 j 05:45 0°M direct evening set -5254 Oct 31 j 10:37 15°**£**26'56 retrograde -5247 Mar 14 j 05:22 1°ML47'30 opposition -5247 Jun 03 j 06:40 0°M23'00 0°58'04 0°M24'09 29.08700 AU conjunction -5254 Nov 15 j 15:43 16°**2**01'13 1°24'16 min. Earth dist. -5247 Jun 02 j 13:36 minimum elong -5254 Nov 15 j 15:44 16°**2**01'13 1°24'11 -5247 Jun 17 j 12:02 30°R<u>₽</u> -5254 Nov 16 j 06:10 16°**≙**02'36 31.15761 AU -5247 Aug 20 j 21:21 29°**♀**00'16 max. Earth dist. direct 16°**♀**35'45 -5247 Oct 20 j 13:26 0°M morning rise -5254 Nov 30 j 22:55 -5247 Nov 15 j 05:48 retrograde -5253 Mar 01 j 03:06 18°**£**32′50 evening set 0°M52'37 min. Earth dist. -5253 May 20 j 10:10 17°**2**09'52 29.15439 AU opposition -5253 May 21 j 00:44 17°**♀**08'52 1°27'43 conjunction -5247 Nov 30 j 14:04 1°**M**₊27'11 0°51'56 direct -5253 Aug 08 j 05:03 15°**£**46'12 minimum elong -5247 Nov 30 j 14:04 1°ML27'11 0°51'48 evening set -5253 Nov 02 j 20:09 17°**△**39'00 max. Earth dist. -5247 Dec 01 j 08:30 1°M28'55 31.08036 AU morning rise -5247 Dec 16 j 01:13 2°M02'02 -5253 Nov 18 j 01:30 18°**♀**13′20 1°19'58 -5246 Mar 16 j 17:59 3°M59'46 conjunction retrograde -5253 Nov 18 j 01:31 18°**≏**13'20 -5246 Jun 05 j 19:26 2°M35'10 0°52'47 minimum elong 1°19'54 opposition

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5246 in astronomical counting style is the year 5247 BCE in historical counting style. min. Earth dist. -5246 Jun 05 j 00:27 2°M36'28 29.07469 AU evening set -5240 Nov 30 j 04:07 16°M19'39 -5246 Aug 23 j 09:24 direct 1°M.12'24 -5246 Nov 17 j 15:32 3°MJ04'42 -5240 Dec 15 j 15:49 16°M54'31 0°15'49 evening set conjunction -5240 Dec 15 j 15:50 16°M54'31 0°15'36 minimum elong -5240 Dec 15 j 14:08 conjunction -5246 Dec 03 j 00:08 3°M39'17 0°46'57 behind sun begin 16°M54'22 minimum elong -5246 Dec 03 j 00:08 3°M39'17 0°46'48 behind sun end -5240 Dec 15 j 17:32 16°M54'40 max. Earth dist. -5246 Dec 03 j 18:41 3°M41'03 31.06854 AU max. Earth dist. -5240 Dec 16 j 14:49 16°M56'41 31.01640 AU 4°M₁4'12 morning rise -5246 Dec 18 j 12:02 morning rise -5240 Dec 31 j 07:07 17°M29'44 retrograde -5245 Mar 19 j 07:05 6°M12'01 retrograde -5239 Apr 01 j 10:59 19°M28'10 opposition -5245 Jun 08 j 08:18 4°**™**47'19 0°47'25 opposition -5239 Jun 21 j 12:07 18°**M**₊03'17 0°13'56 min. Earth dist. -5245 Jun 07 j 13:19 4°M48'37 29.06349 AU min. Earth dist. -5239 Jun 20 j 13:11 18°M04'52 29.01233 AU -5239 Sep 07 j 13:22 direct -5245 Aug 25 j 20:14 3° ML24'33 direct 16° ML40'40-5239 Dec 02 j 14:50 evening set -5245 Nov 20 j 01:18 5°M16'47 evening set 18°M32'53 conjunction -5245 Dec 05 j 10:35 5°M51'26 0°41'54 conjunction -5239 Dec 18 j 02:58 19°**M**07'47 0°10'29 minimum elong -5245 Dec 05 j 10:35 5°M51'26 0°41'46 minimum elong -5239 Dec 18 j 02:58 19°ML07'47 0°10'17 max. Earth dist. -5245 Dec 06 j 07:03 5°M53'22 31.05794 AU behind sun begin -5239 Dec 17 j 21:49 19°M07'19 morning rise -5245 Dec 20 j 22:55 6°M26'23 behind sun end -5239 Dec 18 j 08:06 19°ML08'15 retrograde -5244 Mar 20 j 19:29 8°M24'16 max. Earth dist. -5239 Dec 19 j 01:52 19°M09'57 31.00741 AU opposition -5244 Jun 09 j 20:48 6°**™**59'31 0°41'59 morning rise -5238 Jan 02 j 18:53 19°M43'03 min. Earth dist. -5244 Jun 09 j 00:30 7°ML00'54 29.05340 AU retrograde -5238 Apr 04 j 00:08 21°M41'35 direct -5244 Aug 27 i 09:03 5°M36'45 min. Earth dist. -5238 Jun 23 i 02:51 20°M18'10 29.00288 AU evening set -5244 Nov 21 j 11:17 7°M28'58 opposition -5238 Jun 24 i 00:56 20°M16'39 0°08'13 direct -5238 Sep 09 i 23:15 18°M54'02 -5244 Dec 06 i 20:54 8°ML03'39 0°36'48 evening set -5238 Dec 05 j 01:28 20°M46'15 conjunction -5244 Dec 06 j 20:54 minimum elong 8°M.03'39 0°36'37 -5244 Dec 07 j 17:06 -5238 Dec 20 j 14:16 21°M21'12 max. Earth dist. 8°ML05'33 31.04849 AU conjunction 0°05'09 -5244 Dec 22 j 09:59 -5238 Dec 20 j 14:16 8°M38'40 minimum elong 21°M21'12 0°04'56 morning rise -5238 Dec 20 j 07:58 -5243 Mar 23 j 08:50 10°M36'39 behind sun begin 21°M20'38 retrograde -5243 Jun 12 j 09:31 -5238 Dec 20 j 20:33 9°ML11'51 0°36'29 behind sun end 21°M-21'46 opposition min. Earth dist. -5243 Jun 11 j 12:42 9°**ጤ**13'16 29.04450 AU max. Earth dist. -5238 Dec 21 j 13:53 21°M23'25 30.99750 AU -5243 Aug 29 j 18:58 7°**IL**49'07 -5237 Jan 05 j 06:40 21°M56'30 direct morning rise -5243 Nov 23 j 21:06 9°M41'18 -5237 Apr 06 j 13:42 evening set retrograde 23°M55'06 -5237 Jun 26 j 13:32 22°M30'07 0°02'29 opposition -5243 Dec 09 j 07:20 10°M16'01 0°31'37 -5237 Jun 25 j 14:20 conjunction min. Earth dist. 22°M31'43 28.99235 AU -5243 Dec 09 j 07:20 -5237 Sep 12 j 11:10 minimum elong 10°M16'01 0°31'27 direct 21°M07'28 max. Earth dist. -5243 Dec 10 j 05:18 10°M18'06 31.03999 AU desc. node -5237 Dec 03 j 22:28 22°M51'49 morning rise -5243 Dec 24 j 20:51 10°M51'06 evening set -5237 Dec 07 j 12:26 22°M59'40 retrograde -5242 Mar 25 j 19:37 12°M49'11 -5242 Jun 14 j 22:14 11°ML24'22 0°30'55 conjunction -5237 Dec 23 j 01:38 23°MJ34'39 -0°00'18 opposition min. Earth dist. -5242 Jun 14 j 00:50 11°M25'50 29.03631 AU minimum elong -5237 Dec 23 j 01:36 23°M34'39 0°00'31 -5242 Sep 01 j 06:40 10° ML01'40 behind sun begin -5237 Dec 22 j 19:09 23°M34'05 direct -5242 Nov 26 j 07:19 11°M53'51 behind sun end -5237 Dec 23 j 08:02 23°M35'14 evening set max. Earth dist. -5237 Dec 24 j 00:30 23°M36'49 30.98651 AU -5242 Dec 11 j 17:58 12° ML 28'37 $0^{\circ}26'23$ -5236 Jan 07 j 18:44 conjunction morning rise 24°M10'01 minimum elong -5242 Dec 11 i 17:58 12°M28'37 0°26'12 retrograde -5236 Apr 08 i 03:42 26°ML08'39 max. Earth dist. -5242 Dec 12 i 15:47 12°M30'41 31.03220 AU min. Earth dist. -5236 Jun 27 i 03:37 24°ML45'09 28.98108 AU morning rise -5242 Dec 27 i 08:11 13°ML03'44 opposition -5236 Jun 28 i 02:03 24°ML43'36 -0°03'15 -5241 Mar 17 j 10:36 15°M direct -5236 Sep 13 j 22:18 23°M20'55 -5241 Mar 28 j 09:23 15°ML01'57 evening set -5236 Dec 08 j 23:14 25°M13'05 retrograde -5241 Apr 08 j 10:31 15°RML -5241 Jun 17 j 10:51 13°MJ37'06 0°25'18 -5236 Dec 24 j 13:04 25°ML48'07 -0°05'42 opposition conjunction -5241 Jun 16 j 12:31 13°MJ38'38 29.02867 AU -5236 Dec 24 j 13:04 0°05'57 min. Earth dist. minimum elong 25°M-48'07 direct -5241 Sep 03 j 16:12 12°M14'26 behind sun begin -5236 Dec 24 j 06:54 25°M47'34 evening set -5241 Nov 28 j 17:37 14°ML06'38 behind sun end -5236 Dec 24 j 19:14 25°M48'41 max. Earth dist. -5236 Dec 25 j 13:20 25°M50'24 30.97505 AU conjunction -5241 Dec 14 j 04:49 14°M41'27 0°21'07 morning rise -5235 Jan 09 j 06:35 26°M23'31 -5241 Dec 14 j 04:49 minimum elong 14°M41'27 0°20'56 retrograde -5235 Apr 10 j 17:16 28°M22'11 max. Earth dist. -5241 Dec 15 j 03:39 14°M43'36 31.02447 AU opposition -5235 Jun 30 j 14:28 26°M57'04 -0°08'58 -5235 Jun 29 j 15:13 -5241 Dec 22 j 09:12 15°M min. Earth dist. 26°M58'40 28.96955 AU morning rise -5241 Dec 29 j 19:35 15°M16'37 direct -5235 Sep 16 j 11:44 25°M34'19 -5240 Mar 29 j 21:11 17°M14'57 evening set -5235 Dec 11 j 10:06 27°M26'29 retrograde opposition -5240 Jun 18 j 23:33 15°M50'05 0°19'38 min. Earth dist. -5240 Jun 18 j 01:43 15°M51'35 29.02079 AU conjunction -5235 Dec 27 j 00:16 28°M01'33 -0°11'02 -5240 Jul 21 j 13:55 15°RM minimum elong -5235 Dec 27 j 00:16 28°M01'33 0°11'16 -5240 Sep 05 j 02:14 14°M27'27 behind sun begin -5235 Dec 26 j 19:29 direct 28°ML01'07 -5240 Oct 19 j 00:11 15°M₁ behind sun end -5235 Dec 27 j 05:02 28°ML01'59

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Earth dist. 13°**✗**39'41 30.91216 AU -5227 Jan 27 j 08:59 direct -5234 Sep 18 j 22:11 27°M47'42 morning rise 14° **₹** 12'57 evening set -5234 Dec 13 j 21:04 29°M39'51 retrograde -5227 Apr 29 j 00:45 16°**⊀**12'01 -5234 Dec 22 j 21:28 0°×7 opposition -5227 Jul 18 j 16:27 14°**х** 46′41 -0°53′45 min. Earth dist. -5227 Jul 17 j 16:03 14°**∡**′48'22 28.91000 AU -5234 Dec 29 j 11:52 0°**∡**14'57 -0°16'21 conjunction direct -5227 Oct 04 j 01:42 13°**х**⁴23'48 -5234 Dec 29 j 11:51 -5227 Dec 29 j 05:38 15°**х** 16′13 minimum elong 0°**∡**14'57 0°16'37 evening set max. Earth dist. -5234 Dec 30 j 12:57 0°**≯**17'19 30.95306 AU morning rise -5233 Jan 14 j 06:29 0°**х** 50′26 conjunction -5226 Jan 13 j 23:44 15°**₹**51'34 -0°52'42 retrograde -5233 Apr 15 j 17:58 2°×49'10 minimum elong -5226 Jan 13 j 23:44 15°**х** 51'34 0°52'59 opposition -5233 Jul 05 j 15:12 1°**₹**23'54 -0°20'23 max. Earth dist. -5226 Jan 15 j 02:32 15°**₹**54'05 30.90649 AU morning rise min. Earth dist. -5233 Jul 04 j 15:31 1°**₹**'25'33 28.94849 AU -5226 Jan 29 j 21:43 16°**≯**27'18 direct -5233 Sep 21 j 10:38 0°**∡**01'05 retrograde -5226 May 01 j 14:34 18°**∡**¹26'24 evening set -5233 Dec 16 j 08:14 1°**×**753'14 min. Earth dist. -5226 Jul 20 j 03:55 17°**∡**02'47 28.90391 AU opposition -5226 Jul 21 j 04:36 17°**₹**01'03 -0°59'05 conjunction -5233 Dec 31 i 23:27 2°**₹**28'22 -0°21'40 direct -5226 Oct 06 i 14:37 15°**х** 38′09 minimum elong -5233 Dec 31 i 23:26 2°**₹**28'22 0°21'55 evening set -5226 Dec 31 j 17:57 17°**х** 30′38 max. Earth dist. -5232 Jan 02 j 00:10 2° ₹30'42 30.94362 AU morning rise -5232 Jan 16 j 18:42 3°**х** 03′53 conjunction -5225 Jan 16 j 12:22 18°**∡**106'01 -0°57'40 -5232 Apr 17 j 08:17 5°**х** 02′40 -5225 Jan 16 j 12:22 18°**₹**'06'00 0°57'57 retrograde minimum elong -5232 Jul 06 j 02:54 3°**尽**39'03 28.93974 AU max. Earth dist. -5225 Jan 17 j 13:43 18°**✗**08'24 30.89990 AU min. Earth dist. -5232 Jul 07 j 03:27 3°**₹**37'21 -0°26'04 -5225 Feb 01 j 10:58 18°**∡**¹41'47 morning rise opposition -5225 May 04 j 04:52 20°**х** 40′54 -5232 Sep 22 j 21:12 2° × 14'30 retrograde direct -5232 Dec 17 j 19:23 4°**х** 06'40 -5225 Jul 23 j 16:43 19° ₹ 15'32 -1°04'20 opposition evening set -5225 Jul 22 j 16:47 19°**∡**17'12 28.89689 AU min. Earth dist. -5231 Jan 02 j 11:05 -5225 Oct 09 j 01:08 4° ₹ 41'50 -0°26'57 conjunction 17°**х** 52'34 direct -5224 Jan 03 j 06:17 19°**х** 45′06 -5231 Jan 02 j 11:05 4° x 41'50 0°27'13 minimum elong evening set -5231 Jan 03 j 12:49 max. Earth dist. 4°**∡**′44′16 30.93535 AU -5231 Jan 18 j 06:46 -5224 Jan 19 j 01:16 20°**₹**20'31 -1°02'32 morning rise 5°**х** 17′24 conjunction -5231 Apr 19 j 19:24 -5224 Jan 19 j 01:16 retrograde 7°**х** 16′14 minimum elong 20°×20'31 1°02'48 -5231 Jul 09 j 15:42 opposition 5°**₹**50'54 -0°31'42 max. Earth dist. -5224 Jan 20 j 03:11 20°**≯**22'57 30.89224 AU min. Earth dist. -5231 Jul 08 j 15:31 5°**≯**52'34 28.93217 AU morning rise -5224 Feb 04 j 00:09 20°**х** 56′19 direct -5231 Sep 25 j 07:49 4°×28'02 retrograde -5224 May 05 j 17:55 22°**₹**55'26 -5231 Dec 20 j 06:40 6°**х** 20′14 min. Earth dist. -5224 Jul 24 j 05:16 21°**x** 31'40 28.88875 AU evening set opposition -5224 Jul 25 j 04:48 21°**∡**′30′02 -1°09′30 -5230 Jan 04 j 22:53 6°**₹**55'26 -0°32'12 -5224 Oct 10 j 14:14 20°**₹**07'01 conjunction direct -5230 Jan 04 j 22:53 -5223 Jan 04 j 18:36 21°**₹**59'35 minimum elong 6°**х** 55'26 0°32'27 evening set -5230 Jan 06 j 00:56 6°**₹**'57'53 30.92851 AU max. Earth dist. -5230 Jan 20 j 19:05 7°**∡**³31′02 -5223 Jan 20 j 13:56 22°**∡**¹35′01 -1°07′18 morning rise conjunction 9°**∡**¹29'55 retrograde -5230 Apr 22 j 08:21 minimum elong -5223 Jan 20 i 13:55 22°**₹**35'01 1°07'36 min. Earth dist. -5230 Jul 11 i 02:29 8° ₹ 06'20 28.92590 AU max. Earth dist. -5223 Jan 21 i 14:44 22° 2/37'21 30.88381 AU opposition -5230 Jul 12 i 03:52 8°**≯**04'34 -0°37'18 morning rise -5223 Feb 05 i 13:19 23°**х** 10′50 direct -5230 Sep 27 i 18:33 6°**х** 41'42 retrograde -5223 May 08 j 08:43 25°**₹**09'57 -5230 Dec 22 j 18:09 8°×733'56 opposition -5223 Jul 27 i 16:47 23°**х** 44'30 -1°14'33 evening set min. Earth dist. -5223 Jul 26 j 17:06 23° 🗷 46'09 28.88018 AU -5229 Jan 07 j 10:47 9°×109'11 -0°37'25 direct -5223 Oct 13 j 01:48 22°**×**⁷21'25 conjunction -5229 Jan 07 j 10:47 9°**×**109'11 0°37'41 -5222 Jan 07 j 07:02 24°**₹**14'01 minimum elong evening set max. Earth dist. -5229 Jan 08 j 12:53 9°**҂**11'38 30.92262 AU 9°**∡**¹44'49 morning rise -5229 Jan 23 j 07:33 conjunction -5222 Jan 23 j 02:49 24°**₹**49'29 -1°11'59 24°**∡**¹49'29 retrograde -5229 Apr 24 j 20:54 11°**х** 43′46 minimum elong -5222 Jan 23 j 02:49 1°12'16 opposition -5229 Jul 14 j 16:11 10°**≯**18'25 -0°42'50 max. Earth dist. -5222 Jan 24 j 04:02 24° 🖍 51'51 30.87506 AU -5229 Jul 13 j 15:42 10°**∡**20'07 28.92044 AU -5222 Feb 08 j 02:33 25°×725'20 min. Earth dist. morning rise 8°**х** 55′33 -5222 May 10 j 20:03 27°**₹**24'25 direct -5229 Sep 30 j 03:42 retrograde -5229 Dec 25 j 05:49 10°**∡**747′50 -5222 Jul 29 j 05:56 26°**✗**00'32 28.87160 AU evening set min. Earth dist. 25°**₹**'58'56 -1°19'29 opposition -5222 Jul 30 j 04:42 conjunction -5228 Jan 09 j 23:02 11° 23'07 -0°42'34 direct -5222 Oct 15 j 13:12 24° 🗷 35'47 minimum elong -5228 Jan 09 j 23:01 11°**х** 23'07 0°42'50 evening set -5221 Jan 09 j 19:30 26° ₹ 28'25 max. Earth dist. -5228 Jan 11 j 01:48 11°**✗**25'38 30.91740 AU morning rise -5228 Jan 25 j 20:09 11°**х** 58'47 conjunction -5221 Jan 25 j 15:46 27°**х** 03′55 -1°16′32 -5228 Apr 26 j 10:37 13°**∡** 57'47 -5221 Jan 25 j 15:45 27°**∡**103'54 1°16'51 retrograde minimum elong -5228 Jul 15 j 02:44 12°**∡**34'13 28.91530 AU max. Earth dist. -5221 Jan 26 j 16:43 27°**尽**06'16 30.86677 AU min. Earth dist.

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5221 in astronomical counting style is the year 5222 BCE in historical counting style. -5221 Feb 10 i 15:54 27°**∡**³39'47 direct -5215 Oct 30 i 19:28 10°る18'05 morning rise -5221 May 13 j 09:15 29°×38'51 evening set -5214 Jan 25 j 13:53 12°る11'23 retrograde opposition -5221 Aug 01 j 16:28 28°**∡**13'20 -1°24'18 -5221 Jul 31 j 16:59 -5214 Feb 10 j 12:45 12°る47'03 -1°44'54 min. Earth dist. 28° ₹ 14'59 28.86369 AU conjunction -5221 Oct 18 j 00:37 -5214 Feb 10 j 12:44 12°る47'03 1°45'12 direct 26°**х** 50′06 minimum elong -5220 Jan 12 j 08:12 28°**х** 42'49 -5214 Feb 11 j 11:46 evening set max. Earth dist. 12°る49'13 30.83670 AU -5214 Feb 26 j 15:13 morning rise 13°る23'03 15°**る**22'07 -5220 Jan 28 j 04:45 29°**∡**18'20 -1°20'59 conjunction retrograde -5214 May 29 j 08:28 -5220 Jan 28 j 04:45 minimum elong 29° ₹18'20 1°21'17 min. Earth dist. -5214 Aug 16 j 04:36 13°る58'14 28.83669 AU 29°**✗**20'39 30.85913 AU max. Earth dist. -5220 Jan 29 j 05:25 opposition -5214 Aug 17 j 01:50 13°る56'44 -1°54'06 morning rise -5220 Feb 13 j 05:17 29°**х** 54'13 direct -5214 Nov 02 j 07:26 12°る33'17 -5220 Feb 15 j 20:40 0°정 -5213 Jan 28 j 03:26 14°**る**26'41 evening set retrograde -5220 May 14 j 21:22 1°**る**53'17 min. Earth dist. -5220 Aug 02 j 05:49 0°る29'19 28.85674 AU conjunction -5213 Feb 13 j 02:43 15°る02'23 -1°48'22 opposition -5220 Aug 03 j 04:11 0°る27'45 -1°29'00 minimum elong -5213 Feb 13 j 02:43 15°る02'23 1°48'40 -5220 Aug 19 j 22:54 30°R*x* max. Earth dist. -5213 Feb 14 j 01:35 15°る04'32 30.83383 AU morning rise direct -5220 Oct 19 j 09:56 29°**х** 04′28 -5213 Mar 01 j 05:23 15°る38'24 -5220 Dec 16 j 12:10 0°る retrograde -5213 May 31 j 20:44 17°る37'26 evening set -5219 Jan 13 j 20:47 0°る57'15 opposition -5213 Aug 19 j 13:28 16°る12'05 -1°57'43 min. Earth dist. -5213 Aug 18 j 17:41 16°る13'28 28.83344 AU conjunction -5219 Jan 29 j 17:52 1°る32'47 -1°25'19 direct -5213 Nov 04 j 19:17 14°る48'34 minimum elong -5219 Jan 29 i 17:51 1°る32'47 1°25'37 evening set -5212 Jan 30 j 17:05 16°る42'03 max. Earth dist. -5219 Jan 30 j 19:01 1°る35'09 30.85280 AU morning rise -5219 Feb 14 i 18:38 2°る08'41 conjunction -5212 Feb 15 i 16:43 17°る17'46 -1°51'40 retrograde -5219 May 17 j 10:23 4°る07'45 -5212 Feb 15 i 16:42 17°る17'46 1°51'57 minimum elong -5219 Aug 05 j 15:49 2°る42'13 -1°33'33 max. Earth dist. -5212 Feb 16 j 14:26 17°る19'48 30.83014 AU opposition -5219 Aug 04 j 16:27 2°る43'51 28.85109 AU -5212 Mar 02 j 19:39 17°る53'47 min. Earth dist. morning rise -5219 Oct 21 j 21:31 1°る18'53 -5212 Jun 02 j 11:08 19°る52'46 direct retrograde -5218 Jan 16 j 09:28 3°**る**11'45 -5212 Aug 20 j 05:01 18°る28'49 28.82932 AU evening set min. Earth dist. -5212 Aug 21 j 00:52 18°る27'25 -2°01'09 opposition 17°る03'49 -5218 Feb 01 j 06:48 3°る47'19 -1°29'31 -5212 Nov 06 j 07:29 conjunction direct 18°**る**57'23 -5218 Feb 01 j 06:48 -5211 Feb 01 j 06:46 minimum elong 3°る47'19 1°29'48 evening set -5218 Feb 02 j 07:06 3°る49'36 30.84774 AU max. Earth dist. -5211 Feb 17 j 06:41 19°る33'07 -1°54'48 -5218 Feb 17 j 08:06 4°る23'14 morning rise conjunction -5218 May 19 j 23:29 6°る22'19 -5211 Feb 17 j 06:40 19°る33'07 1°55'05 retrograde minimum elong 4°る58'22 28.84680 AU -5218 Aug 07 j 05:11 -5211 Feb 18 j 03:32 19°る35'04 30.82554 AU min. Earth dist. max. Earth dist. -5218 Aug 08 j 03:36 4°る56'47 -1°37'58 -5211 Mar 05 j 09:54 opposition morning rise 20°る09'09 direct -5218 Oct 24 j 07:53 3°**る**33'25 retrograde -5211 Jun 04 j 23:41 22°る08'03 -5217 Jan 18 j 22:18 5°る26'23 opposition -5211 Aug 23 j 12:22 20°る42'41 -2°04'24 evening set min. Earth dist. -5211 Aug 22 j 18:13 20°る43'58 28.82454 AU conjunction -5217 Feb 03 j 20:13 6°る01'59 -1°33'35 direct -5211 Nov 08 j 17:49 19°る19'00 -5217 Feb 03 j 20:12 6°る01'59 1°33'52 -5210 Feb 03 j 20:15 21°る12'37 minimum elong evening set max. Earth dist. -5217 Feb 04 j 21:26 6°る04'21 30.84400 AU -5217 Feb 19 j 21:40 6°**る**37'55 -5210 Feb 19 j 20:39 21°る48'21 -1°57'45 morning rise conjunction -5217 May 22 j 12:46 8°る37'00 -5210 Feb 19 j 20:39 21°る48'21 1°58'02 retrograde minimum elong -5210 Feb 20 i 17:14 opposition -5217 Aug 10 j 15:04 7°る11'30 -1°42'15 max. Earth dist. 21°る50'17 30.82065 AU -5217 Aug 09 i 16:19 -5210 Mar 08 i 00:05 min. Earth dist. 7°る13'06 28.84357 AU morning rise 22°る24'24 direct -5217 Oct 26 j 20:10 5°る48'07 retrograde -5210 Jun 07 j 11:48 24°る23'12 evening set -5216 Jan 21 j 11:27 7°る41'12 opposition -5210 Aug 25 j 23:38 22°る57'49 -2°07'28 min. Earth dist. -5210 Aug 25 j 05:08 22°る59'08 28.81959 AU -5216 Feb 06 i 09:34 8°중16'49 -1°37'30 direct -5210 Nov 11 j 06:26 21°る34'02 conjunction evening set -5216 Feb 06 i 09:33 8°**궁**16'49 1°37'47 -5209 Feb 06 j 10:07 23°る27'43 minimum elong max. Earth dist. -5216 Feb 07 j 09:26 8°る19'03 30.84121 AU morning rise -5216 Feb 22 j 11:31 8°る52'47 conjunction -5209 Feb 22 j 10:42 24°る03'28 -2°00'31 retrograde -5216 May 24 j 03:16 10°る51'52 minimum elong -5209 Feb 22 j 10:42 24°る03'28 2°00'48 9°る27'58 28.84123 AU min. Earth dist. -5216 Aug 11 j 04:42 max. Earth dist. -5209 Feb 23 j 05:52 24°る05'16 30.81574 AU 9°る26'25 -1°46'22 -5216 Aug 12 j 02:43 morning rise -5209 Mar 10 j 14:29 24°る39'31 opposition -5216 Oct 28 j 06:09 8°**ح**03'00 -5209 Jun 09 j 23:33 26°る38'13 direct retrograde -5215 Jan 23 j 00:28 9°**る**56'12 -5209 Aug 28 j 10:49 25°る12'49 -2°10'20 evening set opposition -5209 Aug 27 j 17:45 25°る14'01 28.81506 AU min. Earth dist. -5215 Feb 07 j 23:04 10°る31'50 -1°41'17 -5209 Nov 13 j 16:47 23°る48'55 conjunction direct minimum elong -5215 Feb 07 j 23:03 10°る31'50 1°41'35 evening set -5208 Feb 08 j 23:48 25°**る**42'41 max. Earth dist. -5215 Feb 08 j 23:37 10°る34'09 30.83893 AU morning rise -5215 Feb 24 j 01:07 11°**る**07'49 conjunction -5208 Feb 25 j 00:52 26°**ප**18'27 -2°03'07 retrograde -5215 May 26 j 17:12 13°**る**06'54 minimum elong -5208 Feb 25 j 00:52 26°る18'26 2°03'23 -5215 Aug 14 j 14:18 11°る41'30 -1°50'19 max. Earth dist. -5208 Feb 25 j 20:31 26°る20'17 30.81155 AU opposition min. Earth dist. -5215 Aug 13 j 16:48 11°る43'01 28.83904 AU -5208 Mar 12 j 04:42 26°**る**54'29 morning rise

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5208 in astronomical counting style is the year 5209 BCE in historical counting style. -5208 Jun 11 i 11:48 28°る53'06 evening set -5201 Feb 25 j 01:48 11°≈27'44 retrograde -5208 Aug 29 j 21:54 27°**ප**27'41 -2°13'00 opposition min. Earth dist. -5208 Aug 29 j 04:42 27°る28'54 28.81138 AU -5201 Mar 13 j 04:59 12°≈03'37 -2°15'46 conjunction 12°**≈**03'37 2°16'00 -5208 Nov 15 j 04:56 26°る03'42 -5201 Mar 13 j 04:59 minimum elong direct -5201 Mar 13 j 19:48 -5207 Feb 10 j 13:31 evening set 27°る57'32 max. Earth dist. 12°≈05'01 30.81655 AU -5201 Mar 29 j 10:06 morning rise 12°≈39'43 28° පි33'19 -2°05'31 -5207 Feb 26 j 14:43 -5201 Jun 28 j 09:22 conjunction retrograde 14°≈37'49 -5207 Feb 26 j 14:43 28°る33'19 2°05'47 minimum elong opposition -5201 Sep 15 j 02:51 13°≈12'49 -2°25'46 min. Earth dist. max. Earth dist. -5207 Feb 27 j 08:54 28°る35'01 30.80846 AU -5201 Sep 14 j 13:54 13°≈13'44 28.81953 AU morning rise -5207 Mar 14 j 18:56 29°る09'22 direct -5201 Dec 01 j 15:19 11°≈48'36 -5207 Apr 08 j 11:54 0°≈ evening set -5200 Feb 27 j 16:21 13°≈43'15 retrograde -5207 Jun 14 j 01:02 1°≈07'54 -5200 Mar 14 j 19:39 -5207 Aug 22 j 00:21 30°Ŗる conjunction 14°≈19'09 -2°16'46 opposition -5207 Sep 01 j 09:05 29°る42'29 -2°15'28 minimum elong -5200 Mar 14 j 19:39 14°≈19'09 2°16'59 min. Earth dist. -5207 Aug 31 j 16:36 29°る43'39 28.80911 AU max. Earth dist. -5200 Mar 15 j 08:37 14°≈20'21 30.81876 AU direct -5207 Nov 17 j 15:24 28°る18'25 morning rise -5200 Mar 31 j 01:01 14°≈55'14 -5206 Feb 07 j 10:17 0°≈ -5200 Apr 02 j 05:33 15°≈ evening set -5206 Feb 13 j 03:16 0°≈12'21 retrograde -5200 Jun 29 j 21:39 16°≈53'15 opposition -5200 Sep 16 j 13:57 15°≈28'18 -2°26'43 conjunction -5206 Mar 01 j 04:57 0°≈48'08 -2°07'43 min. Earth dist. -5200 Sep 16 j 02:50 15°≈29'06 28.82144 AU minimum elong -5206 Mar 01 j 04:57 0°≈48'08 2°07'59 -5200 Oct 03 j 11:21 15°R≈ max. Earth dist. -5206 Mar 01 j 23:47 0°≈49'54 30.80683 AU direct -5200 Dec 03 i 01:29 14°≈04'02 morning rise -5206 Mar 17 j 09:12 1°≈24'11 -5199 Jan 30 i 22:23 15°**≈** retrograde -5206 Jun 16 j 13:38 3°≈22'38 evening set -5199 Mar 01 j 06:34 15°≈58'47 opposition -5206 Sep 03 j 20:03 1°≈57'15 -2°17'43 -5206 Sep 03 j 04:00 1°≈58'24 28.80827 AU -5199 Mar 17 j 10:19 16°≈34'42 -2°17'33 min. Earth dist. conjunction -5206 Nov 20 j 04:30 0°≈33'08 -5199 Mar 17 j 10:20 16°≈34'42 2°17'45 minimum elong direct evening set -5205 Feb 15 j 17:15 2°≈27'10 -5199 Mar 17 j 23:04 16°≈35'53 30.82027 AU max. Earth dist. morning rise -5199 Apr 02 j 15:41 17°≈10'47 -5205 Mar 03 j 19:09 3°≈02'59 -2°09'44 -5199 Jul 02 j 09:58 19°≈08'42 conjunction retrograde -5205 Mar 03 j 19:09 -5199 Sep 19 j 00:53 3°≈02'59 2°09'59 opposition 17°≈43'47 -2°27'26 minimum elong -5205 Mar 04 j 12:25 -5199 Sep 18 j 14:08 max. Earth dist. 3°≈04'36 30.80681 AU min. Earth dist. 17°≈44'33 28.82249 AU 3°**≈**39′02 -5199 Dec 05 j 13:28 16°≈19'27 -5205 Mar 19 j 23:45 morning rise direct -5205 Jun 19 j 04:05 -5198 Mar 03 j 21:07 18°≈14'17 retrograde 5°≈37'25 evening set -5205 Sep 06 j 07:04 opposition 4°≈12'05 -2°19'46 -5205 Sep 05 j 15:05 -5198 Mar 20 j 01:00 18°≈50'12 -2°18'07 min. Earth dist. 4°≈13'13 28.80903 AU conjunction direct -5205 Nov 22 j 16:22 2°≈47'55 minimum elong -5198 Mar 20 j 01:00 18°≈50'12 2°18'20 evening set -5204 Feb 18 j 07:12 4°≈42'04 max. Earth dist. -5198 Mar 20 j 11:34 18°≈51'11 30.82108 AU morning rise -5198 Apr 05 j 06:41 19°≈26'18 conjunction -5204 Mar 05 j 09:27 5°≈17'54 -2°11'33 retrograde -5198 Jul 04 j 22:06 21°≈24'04 -5204 Mar 05 j 09:27 5°≈17'54 2°11'48 opposition -5198 Sep 21 j 11:41 19°≈59'12 -2°27'56 minimum elong -5204 Mar 06 j 02:56 5°≈19'32 30.80811 AU min. Earth dist. -5198 Sep 21 j 02:19 19°≈59'52 28.82317 AU max. Earth dist. -5204 Mar 21 j 14:05 5°≈53'58 -5198 Dec 08 j 00:15 18°≈34'46 morning rise direct -5204 Jun 20 j 16:31 7°≈52'17 -5197 Mar 06 j 11:33 20°≈29'40 retrograde evening set -5204 Sep 07 j 18:04 6°≈27'01 -2°21'36 opposition -5204 Sep 07 i 03:19 min. Earth dist. 6°≈28'04 28.81096 AU conjunction -5197 Mar 22 i 15:53 21°≈05'36 -2°18'29 direct -5204 Nov 24 i 04:02 5°≈02'51 minimum elong -5197 Mar 22 i 15:53 21°≈05'36 2°18'41 evening set -5203 Feb 19 j 21:15 6°≈57'08 max. Earth dist. -5197 Mar 23 i 02:31 21°≈06'36 30.82164 AU morning rise -5197 Apr 07 j 21:30 21°≈41'41 -5203 Mar 07 j 23:47 7°≈32'58 -2°13'10 retrograde -5197 Jul 07 j 09:30 23°≈39'19 conjunction -5203 Mar 07 i 23:47 7°≈32'58 2°13'25 opposition -5197 Sep 23 j 22:28 22°≈14'28 -2°28'13 minimum elong -5203 Mar 08 j 16:11 7°≈34'30 30.81065 AU min. Earth dist. -5197 Sep 23 j 14:00 22°≈15'04 28.82373 AU max. Earth dist. -5203 Mar 24 j 04:39 8°≈09'02 direct -5197 Dec 10 j 13:45 20°≈49'57 morning rise retrograde -5203 Jun 23 j 07:39 10°207'18 evening set -5196 Mar 08 j 01:58 22°≈44'56

opposition

evening set

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition

direct

min. Earth dist.

direct

min. Earth dist.

-5203 Sep 10 j 04:57

-5203 Sep 09 j 14:04

-5203 Nov 26 j 16:15

-5202 Feb 22 j 11:26

-5202 Mar 10 j 14:14

-5202 Mar 10 j 14:14

-5202 Mar 11 j 05:54

-5202 Mar 26 j 19:17

-5202 Jun 25 j 20:29

-5202 Sep 12 j 16:01

-5202 Sep 12 j 03:03

-5202 Nov 29 j 02:44

8°≈42'07 -2°23'12

9°≈48'13 -2°14'34

9°≈48'13 2°14'49

10°≈57'24 -2°24'36

9°≈49'41 30.81362 AU

10°≈58'19 28.81691 AU

7°≈17'56

9°≈12'21

10°≈24'18

12°≈22'29

9°≈33'12

8°≈43'10 28.81385 AU

conjunction

minimum elong

max. Earth dist.

morning rise

retrograde

opposition

evening set

conjunction

minimum elong

direct

min. Earth dist.

-5196 Mar 24 j 06:23

-5196 Mar 24 j 06:23

-5196 Mar 24 j 15:01

-5196 Apr 09 j 12:16

-5196 Jul 08 j 22:50

-5196 Sep 25 j 09:07

-5196 Sep 25 j 01:00

-5196 Dec 12 j 01:47

-5195 Mar 10 j 16:17

-5195 Mar 26 j 21:03

-5195 Mar 26 j 21:03

23°≈20'52 -2°18'39

23°≈20'52 2°18'51

24°≈29'36 -2°28'16

25°≈35'59 -2°18'35

25°≈35'59 2°18'46

23°≈56'56

25°≈54'26

23°≈04'59

25°≈00'03

23°≈21'40 30.82245 AU

24°≈30'10 28.82490 AU

Planetary Phen	omena of Neptune 1	from -5400	through -4898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 17
•	nical year style is used: Th		-				
max. Earth dist.	-5195 Mar 27 j 05:46	-	30.82399 AU	retrograde	-5189 Jul 25 j 14:24	11° ∺ 38'16	
morning rise	-5195 Apr 12 j 02:53	26°≈12'03		opposition	-5189 Oct 11 j 11:13	10°) 13′56	-2°22'19
retrograde	-5195 Jul 11 j 10:34	28° ≈ 09'24		min. Earth dist.	-5189 Oct 11 j 08:56		28.86490 AU
opposition	-5195 Sep 27 j 19:47	26° ≈ 44'35	-2°28'06	direct	-5189 Dec 28 j 13:14	8°)(49'07	
min. Earth dist.	-5195 Sep 27 j 12:59		28.82701 AU	evening set	-5188 Mar 26 j 21:29	10°) 44'46	
direct	-5195 Dec 14 j 13:57	25°≈19'55		7 · · · · · · · · · · · · · · · · · · ·			
evening set	-5194 Mar 13 j 06:36	27°≈15'02		conjunction	-5188 Apr 12 j 03:48	11°) € 20'47	-2°12'18
e venning see	019 1 11 111 10 j 00.50	27 10 10 02		minimum elong	-5188 Apr 12 j 03:48	11° H 20'47	
conjunction	-5194 Mar 29 j 11:35	27°≈50'59	-2°18'19	max. Earth dist.	-5188 Apr 12 j 06:15		30.86686 AU
minimum elong	-5194 Mar 29 j 11:36	27°≈50'59	2°18'30	morning rise	-5188 Apr 28 j 10:00	11°) 56'49	30.00000710
max. Earth dist.	-5194 Mar 29 j 18:57		30.82684 AU	retrograde	-5188 Jul 27 j 01:15	13° H 53'13	
morning rise	-5194 Apr 14 j 17:39	27°≈27'03	30.82084 AU	opposition	-5188 Oct 12 j 21:53	13° X 3313	2020124
morning risc	-5194 Jun 05 j 15:08	28 ≈ 27 03		min. Earth dist.	-5188 Oct 12 j 20:47		28.87181 AU
rotro aro do	-5194 Jul 14 j 01:03	0°) (24'14				12 \(2904	20.0/101 AU
retrograde	3			direct	-5188 Dec 30 j 01:52	11 X 0408 12° X 59'52	
	-5194 Aug 21 j 18:53	30°R≈ 28°≈59'28	2027142	evening set	-5187 Mar 29 j 12:12	12 大3932	
opposition	-5194 Sep 30 j 06:19			:	5107 A 14: 10:22	1201/25/52	2010124
min. Earth dist.	-5194 Sep 29 j 23:20		28.83050 AU	conjunction	-5187 Apr 14 j 18:33	13° ¥ 35'53	
direct	-5194 Dec 17 j 03:33	27°≈34'44		minimum elong	-5187 Apr 14 j 18:33	13°) € 35'53	
evening set	-5193 Mar 15 j 21:02	29°≈29'56		max. Earth dist.	-5187 Apr 14 j 18:29		30.87341 AU
	-5193 Mar 29 j 10:58	0°) €		morning rise	-5187 May 01 j 00:56	14°) 11'55	
				retrograde	-5187 Jul 29 j 14:21	16° 米 08′10	
conjunction	-5193 Apr 01 j 02:15	0° ∺ 05'54		opposition	-5187 Oct 15 j 08:25	14°) 44′00	
minimum elong	-5193 Apr 01 j 02:15	0°) €05'54		min. Earth dist.	-5187 Oct 15 j 08:03		28.87788 AU
max. Earth dist.	-5193 Apr 01 j 09:08		30.83096 AU	direct	-5186 Jan 01 j 13:25	13° ∺ 19′05	
morning rise	-5193 Apr 17 j 08:18	0°) 41′57		evening set	-5186 Apr 01 j 02:46	15° ∺ 14'53	
retrograde	-5193 Jul 16 j 12:39	2°) 39′00					
opposition	-5193 Oct 02 j 16:55	1°) (14′17	-2°27'04	conjunction	-5186 Apr 17 j 09:27	15° ¥ 50'55	-2°08'39
min. Earth dist.	-5193 Oct 02 j 11:34	1°){ 14′40	28.83540 AU	minimum elong	-5186 Apr 17 j 09:28	15° ∺ 50'55	2°08'45
	-5193 Nov 24 j 15:03	30° ₹ ≈		max. Earth dist.	-5186 Apr 17 j 08:57	15°) € 50'52	30.87896 AU
direct	-5193 Dec 19 j 15:14	29° ≈ 49'31		morning rise	-5186 May 03 j 15:43	16°) €26'56	
	-5192 Jan 13 j 10:14	0°) €		retrograde	-5186 Aug 01 j 01:17	18°) 23′01	
evening set	-5192 Mar 17 j 11:24	1°)(44'48		opposition	-5186 Oct 17 j 19:04	16°) 58′54	-2°16'27
				min. Earth dist.	-5186 Oct 17 j 20:31	16°) 58'48	28.88291 AU
conjunction	-5192 Apr 02 j 16:54	2°) €20'46	-2°17'09	direct	-5185 Jan 04 j 02:03	15°) 33′56	
minimum elong	-5192 Apr 02 j 16:54	2°) 20'46	2°17'19	evening set	-5185 Apr 03 j 17:26	17° ∺ 29'48	
max. Earth dist.	-5192 Apr 02 j 23:08	2°) €21'21	30.83671 AU	Č	1 7		
morning rise	-5192 Apr 18 j 23:01	2°) 56'49		conjunction	-5185 Apr 20 j 00:09	18°) €05'49	-2°06'32
retrograde	-5192 Jul 18 j 01:52	4°) 53'44		minimum elong	-5185 Apr 20 j 00:10	18°) €05'49	
opposition	-5192 Oct 04 j 03:27	3° ¥ 29'06	-2°26'13	max. Earth dist.	-5185 Apr 19 j 21:37		30.88378 AU
min. Earth dist.	-5192 Oct 03 j 21:44		28.84175 AU	morning rise	-5185 May 06 j 06:31	18°) €41'50	50.00570110
direct	-5192 Dec 21 j 04:03	2°) (2)31	20.01173110	retrograde	-5185 Aug 03 j 14:45	20°) € 37'45	
evening set	-5191 Mar 20 j 01:44	3° ¥ 59'41		opposition	-5185 Oct 20 j 05:28	19°) 13'40	-2°14'06
evening set	-5171 Wai 20 J 01.44	3 7(3) 41		min. Earth dist.	-5185 Oct 20 j 07:07		28.88741 AU
conjunction	-5191 Apr 05 j 07:21	4°) €35'40	2016/15	direct	-5184 Jan 06 j 16:05	17°) (13'33'	20.00/41 AU
minimum elong	-5191 Apr 05 j 07:21	4° X 35'40		evening set	-5184 Apr 05 j 07:55	17 X 4636	
max. Earth dist.	-5191 Apr 05 j 12:18		30.84367 AU	evening set	-510+ Apr 05 J 07.55	17 / 44 32	
morning rise		5° X 11'43	30.64307 AU	agniumation	5104 Amr 21 : 14:40	20° ∺ 20'34	2904!14
retrograde	-5191 Apr 21 j 13:36 -5191 Jul 20 j 14:32	7° ∺ 08'30		conjunction minimum elong	-5184 Apr 21 j 14:49 -5184 Apr 21 j 14:50	20° X 20'34	
Č	•		2025100	- C			
opposition	-5191 Oct 06 j 14:07	5°) 43′58		max. Earth dist.	-5184 Apr 21 j 11:38		30.88816 AU
min. Earth dist.	-5191 Oct 06 j 09:59		28.84923 AU	morning rise	-5184 May 07 j 21:04	20°) € 56'34	
direct	-5191 Dec 23 j 14:26	4°) 19′10		retrograde	-5184 Aug 05 j 01:43	22° H 52'19	0011100
evening set	-5190 Mar 22 j 16:12	6°) (14'38		opposition	-5184 Oct 21 j 16:01	21° ∺ 28′16	
				min. Earth dist.	-5184 Oct 21 j 19:35		28.89183 AU
conjunction	-5190 Apr 07 j 22:11	6° ¥ 50′38		direct	-5183 Jan 08 j 04:23	20°) €03'10	
minimum elong	-5190 Apr 07 j 22:11	6° ¥ 50'38		evening set	-5183 Apr 07 j 22:08	21°) 59′06	
max. Earth dist.	-5190 Apr 08 j 02:56		30.85154 AU				
morning rise	-5190 Apr 24 j 04:23	7°) €26'41		conjunction	-5183 Apr 24 j 05:12	22°) 35′08	
retrograde	-5190 Jul 23 j 02:36	9° ∺ 23′20		minimum elong	-5183 Apr 24 j 05:12	22° ∺ 35′09	
opposition	-5190 Oct 09 j 00:33	7° ¥ 58'55	-2°23'50	max. Earth dist.	-5183 Apr 24 j 01:02	22°) 34′45	30.89284 AU
min. Earth dist.	-5190 Oct 08 j 20:51	7° ¥ 59'11	28.85711 AU	morning rise	-5183 May 10 j 11:29	23° ℋ 11'08	
direct	-5190 Dec 26 j 02:27	6°) 34′06		retrograde	-5183 Aug 07 j 14:35	25°) €06'41	
evening set	-5189 Mar 25 j 06:59	8°) 29'40		opposition	-5183 Oct 24 j 02:21	23°) 42'41	-2°08'47
Č	,			min. Earth dist.	-5183 Oct 24 j 05:46		28.89663 AU
conjunction	-5189 Apr 10 j 12:58	9°) €05'41	-2°13'49	direct	-5182 Jan 10 j 18:00	22°) 17'31	-
minimum elong	-5189 Apr 10 j 12:59	9°) €05'41		evening set	-5182 Apr 10 j 12:32	24°) 13'31	
max. Earth dist.	-5189 Apr 10 j 15:33		30.85945 AU	<i>5 ~</i>	r		
morning rise	-5189 Apr 26 j 19:21	9°) (03'33		conjunction	-5182 Apr 26 j 19:38	24°) 49'33	-1°59'05
<i>3</i>	r == j ->.=1			J	r == 1 12.50		-

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5182 in astronomical counting style is the year 5183 BCE in historical counting style. opposition -5182 Apr 26 j 19:39 24°\(\dagger49'33\) 1°59'08 -5176 Nov 08 i 02:49 9°Y21'48 -1°44'20 minimum elong -5182 Apr 26 j 14:12 24°\(\frac{1}{49}\)'03 30.89802 AU min. Earth dist. -5176 Nov 08 j 11:35 9°**Υ**21'11 28.95787 AU max. Earth dist. -5182 May 13 j 01:53 25°\ 25'32 -5175 Jan 26 j 04:53 7°Y56'33 direct morning rise -5182 Aug 10 j 02:49 -5175 Apr 26 j 15:36 9°Y52'57 27°**¥**20′55 retrograde evening set -5182 Oct 26 j 12:42 25°\ 56'58 -2°05'50 opposition -5182 Oct 26 j 17:39 -5175 May 12 j 22:59 10°**Y**28'59 -1°35'39 min. Earth dist. 25°**₭**56'37 28.90233 AU conjunction 10°**Y**28′59 -5175 May 12 j 23:00 1°35'36 direct -5181 Jan 13 j 05:20 24°**)** 31'45 minimum elong -5175 May 12 j 11:44 10°**Y**27'56 30.96165 AU evening set -5181 Apr 13 j 02:45 26°**)**€27'46 max. Earth dist. 11°**Y**′04'52 morning rise -5175 May 29 j 04:19 12°Y59'16 conjunction -5181 Apr 29 j 10:04 27°**₭**03'49 -1°56'15 retrograde -5175 Aug 25 j 08:14 minimum elong -5181 Apr 29 j 10:04 27°**₭**03'49 1°56'16 opposition -5175 Nov 10 j 13:24 11°**Υ**35'56 -1°40'10 -5181 Apr 29 j 04:30 -5175 Nov 11 j 00:13 11°**Υ**35'10 28.96705 AU max. Earth dist. 27°**₭**03'18 30.90435 AU min. Earth dist. -5181 May 15 j 16:10 -5174 Jan 28 j 16:52 10°Y10'39 morning rise 27°**)** 39'47 direct retrograde -5181 Aug 12 j 14:00 29°\ 35'00 evening set -5174 Apr 29 j 05:48 12° Y 07'06 opposition -5181 Oct 28 j 23:04 28°\dagger11'07 -2°02'42 min. Earth dist. -5181 Oct 29 j 04:03 28°\mathbf{10'46} 28.90915 AU conjunction -5174 May 15 j 13:07 12° Y 43'07 -1° 31'41 direct -5180 Jan 15 j 18:03 26°**)** 45'52 minimum elong -5174 May 15 j 13:07 12°Υ43'07 1°31'39 evening set -5180 Apr 14 j 16:54 28°**)** 41′57 max. Earth dist. -5174 May 15 j 00:27 12°**Y**41'56 30.97044 AU morning rise -5174 May 31 j 18:19 13°**Y**18′59 conjunction -5180 May 01 j 00:06 29°\ 18'00 -1°53'13 retrograde -5174 Aug 27 j 20:52 15°**Y**13′12 minimum elong -5180 May 01 j 00:07 29°¥18'00 1°53'16 opposition -5174 Nov 12 j 23:43 13°**Y**49'56 -1°35'52 max. Earth dist. -5180 Apr 30 i 16:57 29°\(\mathbf{1}\)17'20 30.91192 AU min. Earth dist. -5174 Nov 13 i 10:38 13°**Y**49'10 28.97520 AU morning rise -5180 May 17 j 06:13 29° ¥ 53'57 direct -5173 Jan 31 i 07:02 12° Y 24'37 -5180 May 20 j 01:27 $0^{\circ}\Upsilon$ evening set -5173 May 01 j 19:57 14° **Y**21'04 retrograde -5180 Aug 14 i 00:51 1°Y49'01 -5180 Oct 30 j 09:28 0°Υ25'13 -1°59'23 -5173 May 18 j 03:09 14°**Y**′57′05 -1°27′35 opposition conjunction -5180 Oct 30 j 15:19 0°**Υ**'24'48 28.91747 AU -5173 May 18 j 03:10 14°**Y**'57'05 1°27'32 min. Earth dist. minimum elong -5180 Nov 14 j 09:20 -5173 May 17 j 13:07 14°**Y**55'47 30.97817 AU 30°**₹** max. Earth dist. -5179 Jan 17 j 04:58 28° **¥** 59'57 morning rise -5173 Jun 03 j 08:07 15°Y32'56 direct $0^{\circ}\Upsilon$ -5179 Mar 20 j 07:15 -5173 Aug 30 j 08:47 17°Y26'59 retrograde 0° Y 56'05 opposition -5173 Nov 15 j 10:16 16°Υ03'45 -1°31'25 evening set -5179 Apr 17 j 06:56 -5173 Nov 15 j 22:53 16°**Y**02'52 28.98259 AU min. Earth dist. -5179 May 03 j 14:23 1°**Y**32'08 -1°50'02 conjunction -5172 Feb 02 j 19:35 14°**℃**38'23 direct -5179 May 03 j 14:23 1°**Y**32'08 1°50'03 -5172 May 03 j 09:42 16°Y34'50 minimum elong evening set -5179 May 03 j 07:37 1°**Y**31'31 30.92096 AU max. Earth dist. 17°**Y**10′50 -1°23′22 -5179 May 19 j 20:15 2°Y08'05 -5172 May 19 j 16:53 morning rise conjunction -5179 Aug 16 j 10:53 4°Υ03'00 -5172 May 19 j 16:54 retrograde minimum elong 17°**Y**10′50 1°23′19 opposition -5179 Nov 01 j 19:43 2°Y39'19 -1°55'53 max. Earth dist. -5172 May 19 j 02:26 17°**Y**09'30 30.98535 AU min. Earth dist. -5179 Nov 02 j 02:21 2°Υ38'50 28.92695 AU morning rise -5172 Jun 04 j 21:35 17°**Y**46'39 direct -5178 Jan 19 j 16:42 1°Y14'03 retrograde -5172 Aug 31 j 19:23 19°**Y**40′32 -5178 Apr 19 j 21:11 3°Y10'15 opposition -5172 Nov 16 j 20:38 18°**Y**17'20 -1°26'50 evening set min. Earth dist. -5172 Nov 17 j 09:33 18°**Υ**16'25 28.98944 AU -5178 May 06 j 04:31 3°Y46'18 -1°46'40 -5171 Feb 04 j 09:37 16°**Y**51'54 conjunction direct -5178 May 06 j 04:31 3°**Y**46'18 1°46'42 -5171 May 05 j 23:35 18°**Y**48'21 minimum elong evening set -5178 May 05 j 19:45 3°**Υ**45'29 30.93105 AU max. Earth dist. -5178 May 22 j 10:28 4°Υ22'14 -5171 May 22 j 06:32 19°**Y**24'21 -1°19'02 morning rise conjunction -5171 May 22 j 06:33 retrograde -5178 Aug 18 j 23:21 6°**Y**17′02 minimum elong 19°**Y**′24′21 1°18′57 4°Υ′53'26 -1°52'12 -5171 May 21 j 14:21 opposition -5178 Nov 04 i 06:02 max. Earth dist. 19°**Υ**22'50 30.99221 AU 20°**Y**00′08 min. Earth dist. -5178 Nov 04 j 13:02 4°Υ52'57 28.93733 AU morning rise -5171 Jun 07 i 11:05 direct -5177 Jan 22 j 03:10 3°Y28'11 retrograde -5171 Sep 03 j 06:12 21°Y53'49 -5177 Apr 22 j 11:19 5°Y24'28 opposition -5171 Nov 19 i 06:51 20°Υ30'39 -1°22'09 evening set min. Earth dist. -5171 Nov 19 j 20:49 20°**Y**29'40 28.99640 AU -5177 May 08 j 18:46 6°Υ00'31 -1°43'09 -5170 Feb 06 j 21:02 19°Y05'10 conjunction direct 21°**Y**'01'37 minimum elong -5177 May 08 j 18:47 6°**℃**00'31 1°43'08 evening set -5170 May 08 j 13:14 5°**Υ**59'42 30.94156 AU max. Earth dist. -5177 May 08 j 10:04 -5177 May 25 j 00:23 6°Y36'26 conjunction -5170 May 24 j 20:13 21°Y37'35 -1°14'35 morning rise retrograde -5177 Aug 21 j 09:01 8°Y31'06 minimum elong -5170 May 24 j 20:14 21°**Y**'37'36 1°14'30 -5177 Nov 06 j 16:28 7°**Y**07'37 -1°48'21 -5170 May 24 j 04:23 21°Υ36'07 30.99936 AU opposition max. Earth dist. -5177 Nov 07 j 01:06 7°**Υ**07'00 28.94777 AU -5170 Jun 10 j 00:22 22°Y13'21 min. Earth dist. morning rise 24°**Υ**06'52 -5176 Jan 24 j 15:26 5°**Y**42′22 -5170 Sep 05 j 15:47 direct retrograde 7°**Y**38'43 $22^{\circ}\Upsilon 43'44 - 1^{\circ}17'20$ evening set -5176 Apr 24 j 01:33 opposition -5170 Nov 21 j 17:14 min. Earth dist. -5170 Nov 22 j 07:57 22°Υ42'42 29.00371 AU conjunction -5176 May 10 j 08:52 8°Υ14'46 -1°39'28 direct -5169 Feb 09 j 09:43 21°Υ18'12 minimum elong -5176 May 10 j 08:53 8°Υ14'46 1°39'28 evening set -5169 May 11 j 02:52 23°**Y**14'39 max. Earth dist. -5176 May 09 j 22:13 8°**Y**13'46 30.95198 AU -5176 May 26 j 14:28 8°Y50'40 -5169 May 27 j 09:29 23°**Y**'50'36 -1°10'02 morning rise conjunction -5176 Aug 22 j 21:40 10°**Y**45′12 -5169 May 27 j 09:29 23°**Y**50'36 1°09'55 retrograde minimum elong

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5169 in astronomical counting style is the year 5170 BCE in historical counting style. 23°**Υ**48'59 31.00716 AU -5169 May 26 i 15:58 min. Earth dist. -5163 Dec 07 j 12:10 8°811'54 29.08145 AU max. Earth dist. -5169 Jun 12 j 13:29 24°Y26'20 direct -5162 Feb 24 j 23:37 6°847'47 morning rise -5169 Sep 08 j 02:53 26°**Y**19'42 -5162 May 27 j 00:09 8°844'29 retrograde evening set -5169 Nov 24 j 03:31 24°Y56'37 -1°12'25 -5162 Jun 11 j 07:12 9°818'17 31.08662 AU max. Earth dist. opposition -5169 Nov 24 j 18:10 24°Υ55'35 29.01208 AU min. Earth dist. 23°Y31'03 -5162 Jun 12 j 04:52 9°820'18 -0°35'41 direct -5168 Feb 11 j 20:42 conjunction 25°**Y**27'30 -5162 Jun 12 j 04:53 evening set -5168 May 12 j 16:15 minimum elong 9°**8**20'18 0°35'32 9°**8**55'50 morning rise -5162 Jun 28 j 06:13 $26^{\circ}\Upsilon 03'26 - 1^{\circ}05'23$ 11°**8**48'30 conjunction -5168 May 28 j 22:49 retrograde -5162 Sep 23 j 06:59 minimum elong -5168 May 28 j 22:50 26°**Y**03′26 1°05′17 opposition -5162 Dec 09 j 04:38 10°**8**26'02 -0°35'24 max. Earth dist. -5168 May 28 j 05:54 26°**Υ**01'52 31.01614 AU min. Earth dist. -5162 Dec 09 j 23:46 10°**8**24'42 29.09219 AU -5168 Jun 14 j 02:20 26°Y39'08 -5161 Feb 27 j 11:09 9°800'39 morning rise direct -5168 Sep 09 j 11:26 28°**Ƴ**32′22 -5161 May 29 j 13:11 10°857'22 retrograde evening set opposition -5168 Nov 25 j 13:54 27°**Y**'09'21 -1°07'23 min. Earth dist. -5168 Nov 26 j 05:40 27°**Y**08'14 29.02170 AU conjunction -5161 Jun 14 j 17:40 11°833'09 -0°30'31 -5161 Jun 14 j 17:40 direct -5167 Feb 13 j 08:42 25°**Y**43'46 minimum elong 11°833'09 0°30'20 evening set -5167 May 15 j 05:38 27° **Y**40'15 max. Earth dist. -5161 Jun 13 j 20:16 11°**8**31'10 31.09677 AU morning rise -5161 Jun 30 j 18:25 12°808'39 conjunction -5167 May 31 j 11:52 28°Y16'10 -1°00'38 retrograde -5161 Sep 25 j 16:52 14°**8**01'12 minimum elong -5167 May 31 j 11:53 28°Y16'10 1°00'30 opposition -5161 Dec 11 j 15:20 12°838'49 -0°29'51 max. Earth dist. -5167 May 30 j 17:34 28°**Y**14'28 31.02659 AU min. Earth dist. -5161 Dec 12 j 11:22 12°**8**37'25 29.10172 AU morning rise -5167 Jun 16 j 15:15 28°Y51'51 direct -5160 Mar 01 i 00:25 11°**8**13'25 -5167 Jul 21 j 17:48 0°8 evening set -5160 May 31 i 02:21 13°810'08 retrograde -5167 Sep 11 i 22:58 0°**8**44'57 max. Earth dist. -5160 Jun 15 j 07:03 13°**8**43'44 31.10590 AU -5167 Nov 04 j 15:57 30°R℃ -5167 Nov 28 j 00:10 29°Y22'01 -1°02'15 -5160 Jun 16 j 06:16 13°845'53 -0°25'18 opposition conjunction -5167 Nov 28 j 15:26 29°**Υ**20'56 29.03270 AU -5160 Jun 16 j 06:16 13°**8**45'53 0°25'08 min. Earth dist. minimum elong -5166 Feb 15 j 21:03 27°**Y**56′27 -5160 Jul 02 j 06:42 14°**8**21'21 direct morning rise 15°₩ 29°Y52'59 -5160 Jul 20 j 21:52 -5166 May 17 j 18:59 evening set -5160 Sep 27 j 03:43 -5166 May 21 j 00:19 0° 8 16°**8**13'48 retrograde -5166 Jun 02 j 06:56 0°**8**27'12 31.03816 AU -5160 Dec 07 j 23:01 max. Earth dist. 15°R₩ -5160 Dec 13 j 01:50 opposition 14°**8**51'26 -0°24'16 -5160 Dec 13 j 21:57 -5166 Jun 03 j 01:05 0°828'53 -0°55'47 14°850'02 29.11049 AU conjunction min. Earth dist. -5166 Jun 03 j 01:05 0°**8**28'53 0°55'40 -5159 Mar 03 j 11:52 13°**8**26'02 minimum elong direct -5166 Jun 19 j 03:57 1°**8**04'32 -5159 May 22 j 21:48 15°8 morning rise -5166 Sep 14 j 08:53 2°**8**57'33 -5159 Jun 02 j 15:10 15°**8**22'44 retrograde evening set -5166 Nov 30 j 10:34 1°**8**34'42 -0°57'02 opposition min. Earth dist. -5166 Dec 01 j 03:23 1°**8**33'32 29.04473 AU conjunction -5159 Jun 18 j 18:52 15°**8**58'27 -0°20'04 direct -5165 Feb 18 j 07:58 0°809'11 minimum elong -5159 Jun 18 j 18:52 15°858'27 0°19'52 evening set -5165 May 20 j 08:22 2°805'46 max. Earth dist. -5159 Jun 17 j 20:04 15°**8**56'20 31.11429 AU morning rise -5159 Jul 04 j 18:40 16°**8**33'52 -5165 Jun 05 j 14:08 2°841'39 -0°50'52 retrograde -5159 Sep 29 j 11:26 18°**8**26'12 conjunction -5165 Jun 05 j 14:08 2°841'39 0°50'43 -5159 Dec 15 j 12:31 17°**8**03'52 -0°18'40 minimum elong opposition -5165 Jun 04 j 19:14 2°839'53 31.05066 AU min. Earth dist. -5159 Dec 16 j 10:00 17°**8**02'22 29.11857 AU max. Earth dist. -5165 Jun 21 j 16:43 3°**8**17'16 -5158 Mar 06 j 00:13 15°**8**38'26 morning rise direct -5165 Sep 16 j 21:04 retrograde 5°**8**10'12 evening set -5158 Jun 05 i 04:04 17°**8**35'06 -5165 Dec 02 i 20:59 3°847'28 -0°51'44 opposition max. Earth dist. -5158 Jun 20 i 06:57 18°**8**08'33 31.12230 AU min. Earth dist. -5165 Dec 03 i 13:24 3°846'19 29.05730 AU 2°822'00 -5158 Jun 21 i 07:10 18°**8**10'48 -0°14'49 direct -5164 Feb 20 i 21:37 conjunction evening set minimum elong -5164 May 21 j 21:31 4°818'37 -5158 Jun 21 i 07:10 18°**8**10'48 0°14'37 max. Earth dist. -5164 Jun 06 j 07:20 4°852'40 31.06322 AU behind sun begin -5158 Jun 21 j 04:30 18°**8**10'34 -5158 Jun 21 j 09:49 18°**8**11'02 behind sun end -5164 Jun 07 j 02:59 4°854'29 -0°45'52 -5158 Jul 07 j 06:37 18°**8**46'10 conjunction morning rise -5164 Jun 07 j 02:59 4°854'29 0°45'43 minimum elong retrograde -5158 Oct 01 j 22:01 20°838'23 5°**8**30'05 morning rise -5164 Jun 23 j 05:08 opposition -5158 Dec 17 j 23:02 19°816'05 -0°13'02 19°**8**14'37 29.12655 AU retrograde -5164 Sep 18 j 08:58 7°**8**22'56 min. Earth dist. -5158 Dec 18 j 20:01 opposition -5164 Dec 04 j 07:32 6°**8**00'18 -0°46'21 direct -5157 Mar 08 j 12:05 17°**8**50'37 5°**8**59'03 29.06978 AU -5164 Dec 05 j 01:23 -5157 Jun 07 j 16:43 19°847'16 min. Earth dist. evening set -5163 Feb 22 j 09:47 4°**8**34'53 direct -5163 May 24 j 10:46 6°**8**31'33 -5157 Jun 23 j 19:25 20°**8**22'55 -0°09'33 evening set conjunction -5157 Jun 23 j 19:26 20°**8**22'55 minimum elong 0°09'20 20°**8**22'25 conjunction -5163 Jun 09 j 15:58 7°**8**07'23 -0°40'48 behind sun begin -5157 Jun 23 j 13:57 minimum elong -5163 Jun 09 j 15:58 7°**8**07'23 0°40'38 behind sun end -5157 Jun 24 j 00:54 20°**8**23'24 max. Earth dist. -5163 Jun 08 j 19:59 7°**8**05'32 31.07542 AU max. Earth dist. -5157 Jun 22 j 19:38 20°**8**20'42 31.13037 AU morning rise -5163 Jun 25 j 17:42 7°**8**42'57 morning rise -5157 Jul 09 j 18:12 20°**8**58'15 -5163 Sep 20 j 19:34 9°835'43 -5157 Oct 04 j 06:59 22°850'22 retrograde retrograde -5163 Dec 06 j 17:59 8°813'11 -0°40'54 -5157 Dec 20 j 09:49 21°**8**28'04 -0°07'23 opposition opposition

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•	ical year style is used: Th		•				
min. Earth dist.	-5157 Dec 21 j 08:01	-	29.13495 AU	minimum elong	-5151 Jul 06 j 18:03	3° Ⅱ 33'10	0°22'25
direct	-5156 Mar 09 j 22:34	20° 8 02'35		max. Earth dist.	-5151 Jul 05 j 16:42		31.19460 AU
evening set	-5156 Jun 09 j 05:07	21° 8 59'13		morning rise	-5151 Jul 22 j 13:31	4° Ⅱ 08'14	
max. Earth dist.	-5156 Jun 24 j 07:09	22° 8 32'34	31.13918 AU	retrograde	-5151 Oct 16 j 23:19	6° Ⅱ 00'02	
				opposition	-5150 Jan 02 j 02:21	4° ∏ 38'06	0°26'23
conjunction	-5156 Jun 25 j 07:17	22° 8 34'49	-0°04'18	min. Earth dist.	-5150 Jan 03 j 00:54		29.20035 AU
minimum elong	-5156 Jun 25 j 07:17	22° 8 34'49		direct	-5150 Mar 24 j 02:33	3° Ⅱ 12'50	27.20033 110
behind sun begin	-5156 Jun 25 j 00:50	22° 8 34'14	0 0403	evening set	-5150 Jun 23 j 06:52	5° Ⅱ 09'31	
behind sun end	-5156 Jun 25 j 13:43	22° 8 35'23		max. Earth dist.	-5150 Jul 08 j 05:01		31.20504 AU
		23° 8 10'06		max. Earth dist.	-5150 Jul 00 J 05.01	3 1142 34	31.20304 AU
morning rise	-5156 Jul 11 j 05:38				£150 I1 00:05.42	50T14152	0027121
retrograde	-5156 Oct 05 j 17:37	25° 8 02'07	0001144	conjunction	-5150 Jul 09 j 05:43	5° Ⅱ 44'52	
opposition	-5156 Dec 21 j 20:25	23° 8 39'52		minimum elong	-5150 Jul 09 j 05:43	5° Ⅱ 44'52	0°27'36
min. Earth dist.	-5156 Dec 22 j 17:48		29.14415 AU	morning rise	-5150 Jul 25 j 00:21	6° Ⅱ 19'53	
direct	-5155 Mar 12 j 12:43	22° 8 14'23		retrograde	-5150 Oct 19 j 07:37	8° Ⅱ 11'40	
asc. node	-5155 Apr 13 j 17:39	22° 8 30'55		opposition	-5149 Jan 04 j 13:30	6° Ⅱ 49'48	
evening set	-5155 Jun 11 j 17:35	24° 8 10'59		min. Earth dist.	-5149 Jan 05 j 13:17		29.21021 AU
				direct	-5149 Mar 26 j 14:45	5° Ⅱ 24'34	
conjunction	-5155 Jun 27 j 19:14	24° 8 46'33	0°01'07	evening set	-5149 Jun 25 j 19:06	7° Ⅱ 21'15	
minimum elong	-5155 Jun 27 j 19:14	24° 8 46'33	0°01'20				
behind sun begin	-5155 Jun 27 j 12:42	24° 8 45'58		conjunction	-5149 Jul 11 j 17:09	7° Ⅱ 56'33	0°32'31
behind sun end	-5155 Jun 28 j 01:46	24° 8 47'08		minimum elong	-5149 Jul 11 j 17:09	7° Ⅱ 56'33	0°32'46
max. Earth dist.	-5155 Jun 26 j 18:54	24° 8 44'18	31.14885 AU	max. Earth dist.	-5149 Jul 10 j 15:08	7° Ⅱ 54'08	31.21427 AU
morning rise	-5155 Jul 13 i 16:59	25° 8 21'48		morning rise	-5149 Jul 27 j 11:19	8° Ⅲ 31'32	
retrograde	-5155 Oct 08 j 04:27	27° 8 13'45		retrograde	-5149 Oct 21 j 18:28	10° Ⅲ 23'17	
opposition	-5155 Dec 24 j 07:03	25° 8 51'32	0°03'55	opposition	-5148 Jan 07 j 00:34	9° Ⅱ 01'28	0°37'25
min. Earth dist.	-5155 Dec 25 j 05:13		29.15446 AU	min. Earth dist.	-5148 Jan 07 j 23:45		29.21880 AU
direct	-5154 Mar 15 j 00:20	24° 8 26'03	27.13440710	direct	-5148 Mar 28 j 02:20	7° Ⅱ 36'15	27.21000710
evening set	-5154 Jun 14 j 05:58	26° 8 22'41		evening set	-5148 Jun 27 j 06:57	9° Ⅱ 32'54	
max. Earth dist.	-5154 Jun 29 j 07:10	_	31.15970 AU	max. Earth dist.	-5148 Jul 12 j 02:47		31.22207 AU
max. Earm dist.	-3134 Juli 29 J 07.10	20 033 38	31.139/0 AU	max. Earth dist.	-5146 Jul 12 J 02.47	10 110347	31.22207 AU
agniumation	5154 Jun 20:07:00	26° 8 58'12	0°06'25	amiumation	5149 1 12:04.21	10° Ⅱ 08'10	0027127
conjunction	-5154 Jun 30 j 07:09	_		conjunction	-5148 Jul 13 j 04:31		
minimum elong	-5154 Jun 30 j 07:08	26° 8 58'12	0°06'38	minimum elong	-5148 Jul 13 j 04:31	10° I 108'10	0°37'52
behind sun begin	-5154 Jun 30 j 01:02	26° 8 57'39		morning rise	-5148 Jul 28 j 21:56	10° Ⅱ 43'06	
behind sun end	-5154 Jun 30 j 13:14	26° 8 58'45		retrograde	-5148 Oct 23 j 03:26	12° Ⅱ 34'50	
morning rise	-5154 Jul 16 j 04:17	27° 8 33'24		opposition	-5147 Jan 08 j 11:46	11° Ⅱ 13'02	
retrograde	-5154 Oct 10 j 14:34	29° 8 25'17		min. Earth dist.	-5147 Jan 09 j 12:21		29.22600 AU
opposition	-5154 Dec 26 j 17:48	28° 8 03'08	0°09'34	direct	-5147 Mar 30 j 12:55	9° Ⅱ 47'50	
min. Earth dist.	-5154 Dec 27 j 15:39	28° 8 01'38	29.16564 AU	evening set	-5147 Jun 29 j 18:55	11° Ⅱ 44'28	
direct	-5153 Mar 17 j 13:48	26° 8 37'43					
evening set	-5153 Jun 16 j 18:14	28° 8 34'21		conjunction	-5147 Jul 15 j 15:46	12° Ⅲ 19'41	0°42'40
				minimum elong	-5147 Jul 15 j 15:45	12° Ⅲ 19'41	0°42'56
conjunction	-5153 Jul 02 j 18:44	29° 8 09'49	0°11'40	max. Earth dist.	-5147 Jul 14 j 13:31	12° Ⅲ 17'14	31.22866 AU
minimum elong	-5153 Jul 02 j 18:44	29° 8 09'49	0°11'55	morning rise	-5147 Jul 31 j 08:37	12° Ⅱ 54'34	
behind sun begin	-5153 Jul 02 j 14:15	29° 8 09'25		retrograde	-5147 Oct 25 j 13:38	14° Ⅱ 46'15	
behind sun end	-5153 Jul 02 j 23:13	29° 8 10'13		opposition	-5146 Jan 10 j 22:43	13° Ⅱ 24'28	0°48'12
max. Earth dist.	-5153 Jul 01 j 17:56		31.17126 AU	min. Earth dist.	-5146 Jan 11 j 22:41		29.23199 AU
morning rise	-5153 Jul 18 j 15:22	29° 8 44'59		direct	-5146 Apr 02 j 02:38	11° II 59'15	
8	-5153 Jul 25 j 15:17	0°II		evening set	-5146 Jul 02 j 06:42	13° I I55'52	
retrograde	-5153 Oct 13 j 02:12	1° П 36'50		max. Earth dist.	-5146 Jul 17 j 00:23		31.23416 AU
opposition	-5153 Dec 29 j 04:38	0° Ⅱ 14'46	0°15'12	max. Earth dist.	5140 Jul 17 J 00.25	14 112034	31.23410710
min. Earth dist.	-5153 Dec 20 j 04:38		29.17752 AU	conjunction	-5146 Jul 18 j 02:54	14° ∏ 31′02	0047120
iiiii. Eartii dist.	-		29.17/32 AU	-			
11.	-5152 Jan 07 j 02:39	30°R ႘		minimum elong	-5146 Jul 18 j 02:54	14° Ⅱ 31'02	0°4/'55
direct	-5152 Mar 19 j 01:23	28° 8 49'23		morning rise	-5146 Aug 02 j 19:04	15° Ⅱ 05'52	
	-5152 May 26 j 18:34	Π °0		retrograde	-5146 Oct 28 j 00:22	16° Ⅱ 57'32	
evening set	-5152 Jun 18 j 06:25	0° Ⅱ 46′02		opposition	-5145 Jan 13 j 09:59	15° Ⅱ 35'44	
max. Earth dist.	-5152 Jul 03 j 06:33	1° Ⅱ 19'15	31.18314 AU	min. Earth dist.	-5145 Jan 14 j 10:43		29.23733 AU
				direct	-5145 Apr 04 j 13:49	14° Ⅱ 10′31	
conjunction	-5152 Jul 04 j 06:29	1° Ⅱ 21′28		evening set	-5145 Jul 04 j 18:09	16° Ⅱ 07'06	
minimum elong	-5152 Jul 04 j 06:29	1° Ⅱ 21′28	0°17'10	max. Earth dist.	-5145 Jul 19 j 11:49	16° Ⅱ 39'47	31.23930 AU
morning rise	-5152 Jul 20 j 02:24	1° Ⅱ 56'35					
retrograde	-5152 Oct 14 j 12:11	3° ∏ 48′24		conjunction	-5145 Jul 20 j 13:43	16° Ⅱ 42'12	0°52'33
opposition	-5152 Dec 30 j 15:26	2° Ⅱ 26'25	0°20'49	minimum elong	-5145 Jul 20 j 13:43	16° Ⅱ 42'12	0°52'50
min. Earth dist.	-5152 Dec 31 j 14:12		29.18924 AU	morning rise	-5145 Aug 05 j 05:13	17° Ⅱ 16'59	
direct	-5151 Mar 21 j 14:53	1° Ⅱ 01'06		retrograde	-5145 Oct 30 j 09:54	19° Ⅱ 08'38	
evening set	-5151 Jun 20 j 18:44	2° П 57'46		opposition	-5144 Jan 15 j 21:10	17° Ⅱ 46'50	0°58'41
2	20 j 10.77			min. Earth dist.	-5144 Jan 16 j 21:24		29.24238 AU
conjunction	-5151 Jul 06 j 18:03	3° Ⅲ 33′10	0°22'09	direct	-5144 Apr 06 j 03:09	16° Ⅱ 21'37	27.2 1230 AU
Jonganeuon	5151 vai 00 j 10.05	J <u>11</u> JJ 10	0 22 07	anoci	511111pt 00 J 05.09	10 11213/	

•	-		•		st AG 18-Feb-2025		page 21
		e year -3144 1 18° Ⅱ 18'09	in astronomicai cot				1924110
evening set	-5144 Jul 06 j 05:37		21 24442 444	conjunction	-5138 Aug 04 j 15:00	1°958'13	1°24'19
max. Earth dist.	-5144 Jul 20 j 21:55	18°Щ50'44	31.24443 AU	minimum elong	-5138 Aug 04 j 14:59	1°958'13	1°24'36
	5144 I-1 22:00-24	100∏ε2112	0057122	max. Earth dist.	-5138 Aug 03 j 15:02		31.28850 AU
conjunction	-5144 Jul 22 j 00:24	18° Ⅲ 53'13 18° Ⅲ 53'12		morning rise	-5138 Aug 20 j 01:58	2°932'40	
minimum elong	-5144 Jul 22 j 00:24	18° Ц 33°12 19° Ц 27'57	0-5/39	retrograde	-5138 Nov 14 j 07:50	4°924'29	1922115
morning rise	-5144 Aug 06 j 15:21 -5144 Oct 31 j 21:22	19 Ⅲ 2/3/ 21° Ⅲ 19'34		opposition min. Earth dist.	-5137 Jan 31 j 04:35 -5137 Feb 01 j 02:57	3°902'52	1 32 13 29.29279 AU
retrograde opposition	-5144 Oct 31 j 21.22 -5143 Jan 17 j 08:13	21 Ⅲ 1934 19° Ⅲ 57'46	1°03'47	direct	-5137 Feb 01 J 02.37 -5137 Apr 22 j 15:36	1°938'00	29.29279 AU
min. Earth dist.	-5143 Jan 18 j 08:21		29.24794 AU	evening set	-5137 Apr 22 j 13:30	3°934'25	
direct	-5143 Apr 08 j 15:05	19 Ⅱ 3000	29.24/94 AU	max. Earth dist.	-5137 Jul 22 j 11:15		31.29489 AU
evening set	-5143 Jul 08 j 16:53	20° I 29'04		max. Latin dist.	-3137 Aug 00 J 01.00	4 300 33	31.29469 AU
max. Earth dist.	-5143 Jul 23 j 10:02		31.25025 AU	conjunction	-5137 Aug 07 j 01:08	4°909'08	1°28'25
max. Earth dist.	-5145 Jul 25 j 10.02	21 101 44	31.23023 AC	minimum elong	-5137 Aug 07 j 01:08	4°909'08	1°28'42
conjunction	-5143 Jul 24 j 11:08	21° Ⅱ 04'04	1°02'07	morning rise	-5137 Aug 22 j 11:27	4°9643'33	1 20 42
minimum elong	-5143 Jul 24 j 11:08	21° I I04'04	1°02'07 1°02'24	retrograde	-5137 Nov 16 j 18:31	6°935'26	
morning rise	-5143 Aug 09 j 01:17	21° I I38'45	1 02 24	opposition	-5136 Feb 02 j 16:20	5° © 13'49	1°36'34
retrograde	-5143 Nov 03 j 07:11	23° II 30'23		min. Earth dist.	-5136 Feb 03 j 15:16		29.29873 AU
opposition	-5142 Jan 19 j 19:31	22° I I08'35	1°08'48	direct	-5136 Apr 24 j 01:25	3°948'58	27.27075710
min. Earth dist.	-5142 Jan 20 j 19:38		29.25416 AU	evening set	-5136 Jul 23 j 22:05	5° © 45'22	
direct	-5142 Apr 11 j 05:10	20° I I43'24	27.23 110 110	max. Earth dist.	-5136 Aug 07 j 11:58		31.30008 AU
evening set	-5142 Jul 11 j 04:11	22° I I39'54		max. Dartii dist.	2130 Hug 07 j 11.20	0 - 17 50	31.30000110
e vennig see	51.20ai 11j0ii			conjunction	-5136 Aug 08 j 11:23	6°\$20'02	1°32'24
conjunction	-5142 Jul 26 j 21:33	23° Ⅱ 14'51	1°06'46	minimum elong	-5136 Aug 08 j 11:22	6°\$20'02	
minimum elong	-5142 Jul 26 j 21:32	23° I 14'51	1°07'02	morning rise	-5136 Aug 23 j 21:02	6°954'24	1 32 10
max. Earth dist.	-5142 Jul 25 j 19:49		31.25696 AU	retrograde	-5136 Nov 18 j 04:14	8°9346'18	
morning rise	-5142 Aug 11 j 11:10	23° II 49'29	31.200,0110	opposition	-5135 Feb 04 j 03:54	7° 5 24'41	1°40'44
retrograde	-5142 Nov 05 j 17:58	25° I I41'08		min. Earth dist.	-5135 Feb 05 j 02:27		29.30317 AU
opposition	-5141 Jan 22 j 06:46	24° ∏ 19'21	1°13'43	direct	-5135 Apr 26 j 14:22	5°959'52	27.50517110
min. Earth dist.	-5141 Jan 23 j 05:48		29.26144 AU	evening set	-5135 Jul 26 j 08:59	7°956'13	
direct	-5141 Apr 13 j 16:43	22° I I54'13		8			
evening set	-5141 Jul 13 j 15:15	24° ∏ 50'42		conjunction	-5135 Aug 10 j 21:30	8°930'49	1°36'14
max. Earth dist.	-5141 Jul 28 j 07:48	25° Ⅱ 23'21	31.26460 AU	minimum elong	-5135 Aug 10 j 21:29	8°930'49	
	3			max. Earth dist.	-5135 Aug 09 j 21:16	8°528'33	31.30379 AU
conjunction	-5141 Jul 29 j 08:06	25° Ⅱ 25'37	1°11'19	morning rise	-5135 Aug 26 j 06:37	9° © 05'09	
minimum elong	-5141 Jul 29 j 08:05	25° Ⅱ 25'37	1°11'36	retrograde	-5135 Nov 20 j 16:06	10°957'05	
morning rise	-5141 Aug 13 j 20:54	26° Ⅱ 00′12		opposition	-5134 Feb 06 j 15:39	9° 5 35'26	1°44'46
retrograde	-5141 Nov 08 j 02:11	27° Ⅲ 51'53		min. Earth dist.	-5134 Feb 07 j 14:08	9° © 33'54	29.30637 AU
opposition	-5140 Jan 24 j 18:10	26° Ⅱ 30′09	1°18'32	direct	-5134 Apr 29 j 02:09	8°9510'38	
min. Earth dist.	-5140 Jan 25 j 17:44	26° Ⅲ 28'32	29.26946 AU	evening set	-5134 Jul 28 j 19:31	10° © 06'55	
direct	-5140 Apr 15 j 04:58	25° Ⅲ 05′05		max. Earth dist.	-5134 Aug 12 j 08:36	10° © 39'20	31.30631 AU
evening set	-5140 Jul 15 j 02:17	27° I I01'33					
-				conjunction	-5134 Aug 13 j 07:29	10°5541'28	1°39'56
conjunction	-5140 Jul 30 j 18:18	27° Ⅲ 36′25	1°15'46	minimum elong	-5134 Aug 13 j 07:29	10°5541'28	1°40'13
minimum elong	-5140 Jul 30 j 18:18	27° Ⅱ 36′25	1°16'03	morning rise	-5134 Aug 28 j 15:52	11°915'45	
max. Earth dist.	-5140 Jul 29 j 17:31	27° Ⅱ 34'06	31.27286 AU	retrograde	-5134 Nov 23 j 01:52	13°907'43	
morning rise	-5140 Aug 15 j 06:39	28° Ⅱ 10′58		opposition	-5133 Feb 09 j 03:32	11°5946'01	1°48'38
	-5140 Oct 28 j 00:49	0 \circ \odot		min. Earth dist.	-5133 Feb 10 j 02:06	11° 5 644'29	29.30839 AU
retrograde	-5140 Nov 09 j 13:08	0° © 02'41		direct	-5133 May 01 j 16:00	10°521'13	
	-5140 Nov 22 j 03:01	30°RⅡ		evening set	-5133 Jul 31 j 06:07	12°517'26	
opposition	-5139 Jan 26 j 05:28	28° Ⅱ 41′00	1°23'13				
min. Earth dist.	-5139 Jan 27 j 03:52	28° Ⅲ 39′28	29.27777 AU	conjunction	-5133 Aug 15 j 17:16	12° 9 51'57	1°43'29
direct	-5139 Apr 17 j 16:30	27° Ⅱ 16′00		minimum elong	-5133 Aug 15 j 17:15	12° 9 51'56	1°43'46
evening set	-5139 Jul 17 j 13:18	29° Ⅱ 12'28		max. Earth dist.	-5133 Aug 14 j 17:46	12°5649'44	31.30801 AU
max. Earth dist.	-5139 Aug 01 j 04:41	29° Ⅱ 45′03	31.28093 AU	morning rise	-5133 Aug 31 j 01:14	13°526'10	
				retrograde	-5133 Nov 25 j 12:50	15° © 18'11	
conjunction	-5139 Aug 02 j 04:42	29° Ⅱ 47'18	1°20'06	opposition	-5132 Feb 11 j 15:12	13° 9 56'26	1°52'21
minimum elong	-5139 Aug 02 j 04:42	29° Ⅱ 47'18	1°20'23	min. Earth dist.	-5132 Feb 12 j 12:41	13° 9 54'58	29.31001 AU
	-5139 Aug 07 j 20:37	0 \circ \odot		direct	-5132 May 03 j 03:33	12° © 31'37	
morning rise	-5139 Aug 17 j 16:15	0° ട് 21'48		evening set	-5132 Aug 01 j 16:16	14° © 27'46	
retrograde	-5139 Nov 11 j 21:59	2° © 13'34		max. Earth dist.	-5132 Aug 16 j 04:58	15° ട്ട 00'10	31.30942 AU
opposition	-5138 Jan 28 j 16:58	0° © 51'55	1°27'48				
min. Earth dist.	-5138 Jan 29 j 16:21		29.28571 AU	conjunction	-5132 Aug 17 j 02:57	15° © 02'13	1°46'53
	-5138 Mar 03 j 19:09	30°RⅡ		minimum elong	-5132 Aug 17 j 02:57	15° © 02'13	1°47'10
direct	-5138 Apr 20 j 02:58	29° Ⅱ 27'00		morning rise	-5132 Sep 01 j 10:13	15° © 36'25	
	-5138 Jun 05 j 01:23	0ංම		retrograde	-5132 Nov 26 j 21:21	17°528'27	
evening set	-5138 Jul 20 j 00:22	1° 5 23'27		opposition	-5131 Feb 13 j 03:03	16°506'39	
				min. Earth dist.	-5131 Feb 14 j 00:51	16°5905'10	29.31154 AU

Planetary Pheno	omena of Neptune f	from -5400	through -4898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 22
Attention, astronom	nical year style is used: Th	e year -5131	in astronomical co	unting style is the year	r 5132 BCE in historical c	ounting style.	
direct	-5131 May 05 j 16:42	14°9541'52		minimum elong	-5125 Sep 01 j 20:42	0° Ω 13'39	2°06'27
evening set	-5131 Aug 04 j 02:33	16° © 37'56		max. Earth dist.	-5125 Sep 01 j 03:57	0° Ω 12'04	31.33466 AU
				morning rise	-5125 Sep 17 j 00:27	0° Ω 47'37	
conjunction	-5131 Aug 19 j 12:26	17° © 12'21	1°50'08	retrograde	-5125 Dec 12 j 22:49	2° Ω 40'22	
minimum elong	-5131 Aug 19 j 12:25	17° © 12'21	1°50'25	opposition	-5124 Feb 29 j 15:14	1° Ω 18'35	2°15'54
max. Earth dist.	-5131 Aug 18 j 14:24	17°5510'17	31.31118 AU	min. Earth dist.	-5124 Mar 01 j 08:14	1° Ω 17'26	29.33772 AU
morning rise	-5131 Sep 03 j 19:15	17° 5 346'29			-5124 May 01 j 23:31	30° №	
retrograde	-5131 Nov 29 j 08:01	19° © 38'35		direct	-5124 May 20 j 23:46	29°954'18	
opposition	-5130 Feb 15 j 14:47	18°9516'45	1°59'18		-5124 Jun 08 j 18:34	$0^{\circ}\Omega$	
min. Earth dist.	-5130 Feb 16 j 10:50	18° © 15'23	29.31368 AU	evening set	-5124 Aug 19 j 00:09	1° Ω 50'08	
direct	-5130 May 08 j 04:58	16°951'59		<i>3</i>		• • • • • • • • • • • • • • • • • • • •	
evening set	-5130 Aug 06 j 12:39	18°9548'00		conjunction	-5124 Sep 03 j 05:57	2° Ω 24'17	2°08'15
8				minimum elong	-5124 Sep 03 j 05:57	2° Ω 24'17	
conjunction	-5130 Aug 21 j 21:58	19° © 22'22	1°53'14	max. Earth dist.	-5124 Sep 02 j 12:38		31.33721 AU
minimum elong	-5130 Aug 21 j 21:58	19° © 22'22	1°53'30	morning rise	-5124 Sep 18 j 09:29	2°Ω58'14	
max. Earth dist.	-5130 Aug 21 j 01:12		31.31368 AU	retrograde	-5124 Dec 14 j 10:42	4° Ω 51'06	
morning rise	-5130 Sep 06 j 04:09	19°956'29	31.31300110	opposition	-5123 Mar 03 j 03:31	3° Ω 29'18	2°18'01
retrograde	-5130 Dec 01 j 16:55	21°548'39		min. Earth dist.	-5123 Mar 03 j 19:22		29.33961 AU
opposition	-5129 Feb 18 j 02:48	20°\$26'48	2°02'31	direct	-5123 May 23 j 10:42	2°Ω05'05	27.55701 AC
min. Earth dist.	-5129 Feb 18 j 23:02		29.31682 AU	evening set	-5123 Aug 21 j 09:54	4°Ω00'52	
direct	-5129 May 10 j 15:43	19° © 02'05	29.31062 AU	evening set	-3123 Aug 21 J 09.34	4 0600 32	
	• •	20°958'04		agniumation	5122 Can 05 : 15:21	10 02 1150	2010/00
evening set	-5129 Aug 08 j 22:33		21 21725 ATT	conjunction	-5123 Sep 05 j 15:21	4° Ω 34'58	
max. Earth dist.	-5129 Aug 23 j 11:23	21 9030 31	31.31735 AU	minimum elong	-5123 Sep 05 j 15:21	4° Ω 34'58	
. ,.	5120 4 24:07.15	210€22022	1056100	max. Earth dist.	-5123 Sep 04 j 23:18		31.33821 AU
conjunction	-5129 Aug 24 j 07:15	21°532'23	1°56'09	morning rise	-5123 Sep 20 j 18:19	5° Ω 08'54	
minimum elong	-5129 Aug 24 j 07:15	21°532'23	1°56'26	retrograde	-5123 Dec 16 j 20:23	7° Ω 01'51	
morning rise	-5129 Sep 08 j 12:58	22° © 06'28		opposition	-5122 Mar 05 j 16:02	5° Ω 40'02	
retrograde	-5129 Dec 04 j 02:31	23° © 58'43		min. Earth dist.	-5122 Mar 06 j 08:20		29.33988 AU
opposition	-5128 Feb 20 j 14:41	22° © 36'53		direct	-5122 May 26 j 00:18	4° Ω 15'52	
min. Earth dist.	-5128 Feb 21 j 09:13		29.32088 AU	evening set	-5122 Aug 23 j 19:44	6° Ω 11'34	
direct	-5128 May 12 j 03:38	21° © 12'15		max. Earth dist.	-5122 Sep 07 j 08:24	6° Ω 44'07	31.33783 AU
evening set	-5128 Aug 10 j 08:33	23° © 08'11					
				conjunction	-5122 Sep 08 j 00:36	6° Ω 45'39	
conjunction	-5128 Aug 25 j 16:38	23° © 42'29	1°58'55	minimum elong	-5122 Sep 08 j 00:35	6° Ω 45'39	2°12'04
minimum elong	-5128 Aug 25 j 16:38	23° © 42'29	1°59'11	morning rise	-5122 Sep 23 j 03:20	7° Ω 19'33	
max. Earth dist.	-5128 Aug 24 j 21:11	23° 5 540'39	31.32170 AU	retrograde	-5122 Dec 19 j 08:14	9° Ω 12'35	
morning rise	-5128 Sep 09 j 21:53	24° 5 016'32		opposition	-5121 Mar 08 j 04:27	7° Ω 50'43	2°21'39
retrograde	-5128 Dec 05 j 13:24	26°508'54		min. Earth dist.	-5121 Mar 08 j 19:10	7° Ω 49'43	29.33881 AU
opposition	-5127 Feb 22 j 02:34	24° © 47'05	2°08'26	direct	-5121 May 28 j 13:11	6° Ω 26'34	
min. Earth dist.	-5127 Feb 22 j 21:04	24°5945'50	29.32559 AU	evening set	-5121 Aug 26 j 05:15	8° Ω 22'11	
direct	-5127 May 14 j 12:25	23°5522'32					
evening set	-5127 Aug 12 j 18:28	25°\$518'28		conjunction	-5121 Sep 10 j 09:45	8° Ω 56'14	2°13'21
max. Earth dist.	-5127 Aug 27 j 07:58	25° © 51'01	31.32648 AU	minimum elong	-5121 Sep 10 j 09:45	8° Ω 56'14	2°13'35
				max. Earth dist.	-5121 Sep 09 j 18:26	8° Ω 54'47	31.33608 AU
conjunction	-5127 Aug 28 j 02:03	25°952'43	2°01'31	morning rise	-5121 Sep 25 j 12:07	9° Ω 30'07	
minimum elong	-5127 Aug 28 j 02:03	25°\$52'43	2°01'47	retrograde	-5121 Dec 21 j 17:09	11° Ω 23'15	
morning rise	-5127 Sep 12 j 06:45	26°526'44		opposition	-5120 Mar 09 j 16:59	10° Ω 01'17	2°23'10
retrograde	-5127 Dec 07 j 23:27	28°©19'14		min. Earth dist.	-5120 Mar 10 j 08:12	10° Ω 00′16	29.33664 AU
opposition	-5126 Feb 24 j 14:42	26° © 57'27	2°11'07	direct	-5120 May 30 j 00:39	8° Ω 37'10	
min. Earth dist.	-5126 Feb 25 j 08:15		29.33025 AU	evening set	-5120 Aug 27 j 14:46	10° Ω 32'40	
direct	-5126 May 17 j 00:34	25°533'00					
evening set	-5126 Aug 15 j 04:23	27°\$28'54		conjunction	-5120 Sep 11 j 18:51	11° Ω 06'41	2°14'40
evening sec	01201148 10) 0 1.25	2, 0200.		minimum elong	-5120 Sep 11 j 18:51	11° Ω 06'41	
conjunction	-5126 Aug 30 j 11:15	28°503'06	2°03'56	max. Earth dist.	-5120 Sep 11 j 04:25		31.33357 AU
minimum elong	-5126 Aug 30 j 11:14	28°503'06	2°04'12	morning rise	-5120 Sep 26 j 20:56	11° Ω 40'32	31.33337 11 0
max. Earth dist.	-5126 Aug 29 j 16:53		31.33093 AU	retrograde	-5120 Dec 23 j 02:05	13° Ω 33'44	
		28°537'06	31.33093 AU	-			2024120
morning rise	-5126 Sep 14 j 15:36			opposition	-5119 Mar 12 j 05:14	12° Ω 11'43	
notno a J-	-5126 Oct 29 j 05:52	0°Ω 0°Ω20!44		min. Earth dist.	-5119 Mar 12 j 18:49		29.33386 AU
retrograde	-5126 Dec 10 j 12:09	0° Ω 29'44		direct	-5119 Jun 01 j 13:14	10° Ω 47'35	
•.•	-5125 Jan 23 j 08:52	30°₹©	2012/27	evening set	-5119 Aug 30 j 00:12	12° Ω 42'59	
opposition	-5125 Feb 27 j 02:58	29°507'57			#110 G	100 0 1	2015:10
min. Earth dist.	-5125 Feb 27 j 19:58		29.33452 AU	conjunction	-5119 Sep 14 j 03:50	13° Ω 16'59	
direct	-5125 May 19 j 11:12	27° © 43'36		minimum elong	-5119 Sep 14 j 03:50	13° Ω 16'59	
evening set	-5125 Aug 17 j 14:13	29° © 39'28		max. Earth dist.	-5119 Sep 13 j 13:48		31.33072 AU
	-5125 Aug 26 j 19:27	0 \circ Ω		morning rise	-5119 Sep 29 j 05:42	13° Ω 50'49	
					-5119 Nov 03 j 12:43	15° Ω	
conjunction	-5125 Sep 01 j 20:42	0° Ω 13'39	2°06'11	retrograde	-5119 Dec 25 j 12:35	15° Ω 44'07	

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5118 in astronomical counting style is the year 5119 BCE in historical counting style. -5118 Feb 18 j 07:52 conjunction 15°RΩ -5112 Sep 28 i 18:03 28°Ω29'00 2°18'14 minimum elong opposition -5118 Mar 14 j 17:48 14°Ω22'00 2°25'35 -5112 Sep 28 j 18:03 28°Ω29'00 2°18'23 min. Earth dist. -5118 Mar 15 j 07:03 14°**Ω**21'07 29.33126 AU -5112 Sep 28 j 10:51 28°**Ω**28'20 31.32234 AU max. Earth dist. -5112 Oct 13 j 18:51 direct -5118 Jun 03 j 22:53 12°**Ω**57'54 29°**Ω**02'49 morning rise -5118 Sep 01 j 09:22 -5112 Nov 10 j 22:34 evening set 14°**£**53′11 0° m -5118 Sep 04 j 11:08 -5111 Jan 09 j 18:47 15°€ retrograde 0° m 57'01 -5111 Mar 14 j 11:05 30°R€ -5118 Sep 16 j 12:43 15°**Ω**27'09 2°16'44 29°**Ω**34'39 2°27'27 conjunction opposition -5111 Mar 30 j 10:20 -5118 Sep 16 j 12:43 minimum elong 15°**Ω**27'09 2°16'57 min. Earth dist. -5111 Mar 30 j 17:29 29°**Ω**34'10 29.32270 AU max. Earth dist. -5118 Sep 16 j 00:32 15°**Ω**26'00 31.32835 AU direct -5111 Jun 19 j 06:45 28° **Q**11'02 -5118 Oct 01 j 14:14 morning rise 16°**Ω**00'59 -5111 Sep 13 j 09:38 0° m -5118 Dec 27 j 22:13 17°**Ω**54'22 -5111 Sep 16 j 01:33 0°m/05'51 retrograde evening set opposition -5117 Mar 17 j 06:21 16°**£**32′12 2°26′30 -5111 Oct 01 j 03:08 min. Earth dist. -5117 Mar 17 j 18:07 16°**Ω**31'24 29.32918 AU conjunction 0° m/39'44 2°17'47 direct -5117 Jun 06 j 11:28 15°**Ω**08'07 minimum elong -5111 Oct 01 j 03:08 0° m/39'44 2°17'56 evening set -5117 Sep 03 j 18:42 17°**Ω**03'20 max. Earth dist. -5111 Sep 30 j 20:54 0° M 39'08 31.31915 AU morning rise -5111 Oct 16 j 03:52 1° m 13'33 conjunction -5117 Sep 18 j 21:34 17°**Ω**37'16 2°17'29 retrograde -5110 Jan 12 j 04:57 3°M)07'53 minimum elong -5117 Sep 18 j 21:34 17°**Ω**37'16 2°17'41 opposition -5110 Apr 01 j 23:15 1° m 45'28 2°26'53 max. Earth dist. -5117 Sep 18 j 09:27 17°**Ω**36'07 31.32670 AU min. Earth dist. -5110 Apr 02 j 04:50 1° 10 45'06 29.31865 AU morning rise -5117 Oct 03 j 23:01 18°**Ω**11'05 direct -5110 Jun 21 j 19:25 0° m 21'55 retrograde -5117 Dec 30 i 10:21 20°**Ω**04'35 evening set -5110 Sep 18 i 10:41 2° m 16'38 opposition -5116 Mar 18 j 18:44 18°**Ω**42'21 2°27'11 min. Earth dist. -5116 Mar 19 j 05:26 18°**Ω**41'38 29.32805 AU conjunction -5110 Oct 03 j 12:03 2°m 50'31 2°17'09 direct -5116 Jun 07 j 21:03 17°**Ω**18′20 -5110 Oct 03 j 12:03 2° m 50'31 2°17'17 minimum elong evening set -5116 Sep 05 j 03:47 19°**Ω**13'28 max. Earth dist. -5110 Oct 03 j 05:48 2° m 49'55 31.31432 AU -5110 Oct 18 j 12:54 3°m24'21 morning rise -5116 Sep 20 j 06:33 19°**Ω**47'23 2°18'02 -5109 Jan 14 j 16:20 5° m 18'49 conjunction retrograde -5116 Sep 20 j 06:33 -5109 Apr 04 j 12:19 19°**Ω**47'23 2°18'14 opposition 3° m 56'20 $2^{\circ}26'05$ minimum elong -5116 Sep 19 j 20:31 19°**Ω**46'27 31.32587 AU min. Earth dist. -5109 Apr 04 j 17:51 3° m 55'58 29.31312 AU max. Earth dist. 20°**Ω**21'12 -5116 Oct 05 j 07:41 -5109 Jun 24 j 05:22 2°m/32'49 morning rise direct 22°**Ω**14′50 -5116 Dec 31 j 20:46 -5109 Sep 20 j 19:45 4° m 27'26 retrograde evening set -5115 Mar 21 j 07:20 20°**Ω**52'34 2°27'40 opposition -5115 Mar 21 j 17:27 20°**Ω**51'53 29.32741 AU -5109 Oct 05 j 21:11 5° Mp 01'18 2°16'19 min. Earth dist. conjunction 19°**Ω**28'37 -5115 Jun 10 j 08:30 -5109 Oct 05 j 21:11 5° m 01'19 2°16'27 direct minimum elong 21°**Ω**23'41 -5115 Sep 07 j 12:57 -5109 Oct 05 j 16:27 5° m 00'52 31.30807 AU evening set max. Earth dist. -5109 Oct 20 j 21:57 5°m/35'09 morning rise conjunction -5115 Sep 22 j 15:15 21°Ω57'35 2°18'23 retrograde -5108 Jan 17 j 02:15 7° m 29'44 minimum elong -5115 Sep 22 j 15:15 21°Ω57'35 2°18'35 opposition -5108 Apr 06 j 01:05 6° Mp 07'11 2°25'06 max. Earth dist. -5115 Sep 22 j 05:18 21°**Ω**56'39 31.32549 AU min. Earth dist. -5108 Apr 06 j 05:36 6° Mp 06'52 29.30609 AU morning rise -5115 Oct 07 j 16:23 22°**Ω**31'24 direct -5108 Jun 25 j 18:00 4° m 43'41 retrograde -5114 Jan 03 j 09:11 24°**Ω**25'10 -5108 Sep 22 j 04:51 6° m 38'11 evening set -5114 Mar 23 j 19:56 23°**Ω**02'53 2°27'56 opposition min. Earth dist. -5114 Mar 24 j 04:20 23°**Ω**02'19 29.32711 AU -5108 Oct 07 j 06:04 7° mg 12'03 2°15'17 conjunction -5114 Jun 12 j 18:55 21°**Ω**39'01 -5108 Oct 07 j 06:04 7° mg 12'03 2°15'25 direct minimum elong -5108 Oct 07 i 01:03 evening set -5114 Sep 09 i 22:02 23°**Ω**34'02 max. Earth dist. 7° m 11'35 31.30059 AU -5108 Oct 22 i 07:06 morning rise 7° m 45'55 24°Ω07'55 2°18'32 conjunction -5114 Sep 25 i 00:13 retrograde -5107 Jan 18 j 14:30 9° m 40'37 -5114 Sep 25 i 00:13 minimum elong 24°Ω07'55 2°18'43 opposition -5107 Apr 08 j 14:00 8° m 17'57 2°23'54 max. Earth dist. -5114 Sep 24 j 15:56 24°**Ω**07'09 31.32509 AU min. Earth dist. -5107 Apr 08 j 17:41 8° m 17'42 29.29824 AU -5114 Oct 10 j 01:06 24°Ω41'44 direct -5107 Jun 28 j 03:39 6° m 54'27 morning rise evening set -5113 Jan 05 j 20:07 26°Ω35'39 -5107 Sep 24 j 13:36 8° m 48'51 retrograde -5113 Mar 26 j 08:47 25°**Ω**13'20 2°27'59 opposition 25°**Ω**12'46 29.32655 AU min. Earth dist. -5113 Mar 26 j 17:15 conjunction -5107 Oct 09 j 14:56 9° m 22'44 2°14'04 direct -5113 Jun 15 j 07:28 23°**Ω**49'34 minimum elong -5107 Oct 09 j 14:57 9° m 22'44 2°14'11 evening set -5113 Sep 12 j 07:08 25°**Ω**44'31 max. Earth dist. -5107 Oct 09 j 12:00 9° m 22'27 31.29248 AU morning rise -5107 Oct 24 j 15:53 9° M 56'36 -5113 Sep 27 j 09:02 26°Ω18'24 2°18'29 -5106 Jan 21 j 00:47 11° m 51'24 conjunction retrograde -5113 Sep 27 j 09:02 -5106 Apr 11 j 03:00 10° m/28'38 2°22'30 minimum elong 26°**Ω**18'24 2°18'39 opposition -5113 Sep 27 j 01:05 26°**Ω**17'39 31.32429 AU -5106 Apr 11 j 06:02 10° m/28'26 29.29001 AU max. Earth dist. min. Earth dist. -5113 Oct 12 j 09:57 morning rise 26°**£**52′12 direct -5106 Jun 30 j 14:54 9° m 05'10 retrograde -5112 Jan 08 j 08:42 28°**Ω**46'15 evening set -5106 Sep 26 j 22:33 10° m 59'27 opposition -5112 Mar 27 j 21:29 27°**Ω**23'56 2°27'50 min. Earth dist. -5112 Mar 28 j 04:11 27°**Ω**23'29 29.32524 AU conjunction -5106 Oct 11 j 23:43 11° m 33'19 2°12'40 direct -5112 Jun 16 j 19:40 26°**Ω**00′14 minimum elong -5106 Oct 11 j 23:43 11° mg 33'19 2°12'46 -5112 Sep 13 j 16:20 27° **Ω**55'07 max. Earth dist. -5106 Oct 11 j 21:01 11° mp 33'04 31.28450 AU evening set

-5106 Oct 27 j 00:57

morning rise

12°m/07'12

Planetary Pheno	omena of Neptune f	from -5400	through -4898	8 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 24
•	-		•		r 5106 BCE in historical c		
retrograde	-5105 Jan 23 j 13:24	14° Mp 02'08		minimum elong	-5099 Oct 26 j 14:14	26° Mp 49'05	1°57'36
opposition	-5105 Apr 13 j 15:49	12° m 39'16	2°20'54	max. Earth dist.	-5099 Oct 26 j 18:30	26° m 49'30	31.24304 AU
min. Earth dist.	-5105 Apr 13 j 16:57		29.28233 AU	morning rise	-5099 Nov 10 j 17:12	27° m) 23'11	
direct	-5105 Jul 03 j 01:13	11° m) 15'48		retrograde	-5098 Feb 07 j 21:50	29° m 19'04	
evening set	-5105 Sep 29 j 07:15	13° m 09'59		opposition	-5098 Apr 29 j 10:31	27° m 55'48	2°04'05
e venning see	2102 Sep 23 j 07:12	15 1100000		min. Earth dist.	-5098 Apr 29 j 04:59	-•	29.24073 AU
conjunction	-5105 Oct 14 j 08:33	13° m 43'52	2°11'04	direct	-5098 Jul 18 j 08:49	26° m) 32'46	27.2 1073 110
minimum elong	-5105 Oct 14 j 08:34	13° Mp 43'52		evening set	-5098 Oct 13 j 21:20	28° Mp 26'22	
max. Earth dist.	-5105 Oct 14 j 07:39		31.27711 AU	evening set	-3070 Oct 13 j 21.20	20 11/2022	
morning rise	-5105 Oct 29 j 09:52	14° M) 17'47	31.2//11 AO	conjunction	-5098 Oct 28 j 23:35	29° m 00'23	1°54'42
-	-5103 Oct 29 j 09.32 -5104 Jan 26 j 00:51	-			-	~	
retrograde	-	16° Mp 12'49	2010105	minimum elong	-5098 Oct 28 j 23:36	29° m 00'23	1°54'44
opposition	-5104 Apr 15 j 04:46	-		max. Earth dist.	-5098 Oct 29 j 05:33	-•	31.23554 AU
min. Earth dist.	-5104 Apr 15 j 05:34		29.27533 AU	morning rise	-5098 Nov 13 j 02:46	29° m/34'30	
direct	-5104 Jul 04 j 13:36	13° Tp 26'28			-5098 Nov 24 j 22:33	0∘ ⊽	
evening set	-5104 Sep 30 j 16:04	15° m 20'33		retrograde	-5097 Feb 10 j 08:31	1° ≏ 30'30	
				opposition	-5097 May 01 j 23:37	0° ჲ 07'10	
conjunction	-5104 Oct 15 j 17:22	15° Mp 54'27	2°09'17	min. Earth dist.	-5097 May 01 j 17:49	0° ჲ 07'34	29.23250 AU
minimum elong	-5104 Oct 15 j 17:22	15° m 54'27	2°09'21		-5097 May 06 j 09:55	30°₽, ™	
max. Earth dist.	-5104 Oct 15 j 17:16	15° Mp 54′26	31.27067 AU	direct	-5097 Jul 20 j 19:48	28° Mp 44'10	
morning rise	-5104 Oct 30 j 18:54	16° Mp 28'23			-5097 Sep 28 j 10:30	0∘ ত	
retrograde	-5103 Jan 27 j 13:55	18° mp 23'33		evening set	-5097 Oct 16 j 06:25	0° م 37'39	
opposition	-5103 Apr 17 j 17:28	17° mp 00'32	2°17'05		v		
min. Earth dist.	-5103 Apr 17 j 16:02		29.26922 AU	conjunction	-5097 Oct 31 j 08:50	1° £ 11'41	1°51'40
direct	-5103 Jul 07 j 01:14	15° m) 37'11		minimum elong	-5097 Oct 31 j 08:50	1° Ω 11'41	
evening set	-5103 Oct 03 j 00:52	17° Mp 31'12		max. Earth dist.	-5097 Oct 31 j 14:37		31.22678 AU
evening sec	5105 Oct 05 j 00.52	17 112		morning rise	-5097 Nov 15 j 12:32	1° Ω 45'52	31.22070110
conjunction	-5103 Oct 18 j 02:14	18° Mp 05'06	2°07'18	retrograde	-5096 Feb 12 j 21:43	3° £ 43'52	
	-	18° Mp 05'06		•	•	2° £ 18'32	1057127
minimum elong	-5103 Oct 18 j 02:15	-		opposition	-5096 May 03 j 12:40		
max. Earth dist.	-5103 Oct 18 j 03:14		31.26496 AU	min. Earth dist.	-5096 May 03 j 05:29		29.22302 AU
morning rise	-5103 Nov 02 j 04:00	18° Mp 39'04		direct	-5096 Jul 22 j 06:19	0° Ω 55'32	
retrograde	-5102 Jan 30 j 00:28	20° Tp 34'23		evening set	-5096 Oct 17 j 15:23	2° ≏ 48'55	
opposition	-5102 Apr 20 j 06:32	19° TD 11'19					
min. Earth dist.	-5102 Apr 20 j 05:00		29.26383 AU	conjunction	-5096 Nov 01 j 18:07	3° ≏ 22'58	1°48'29
direct	-5102 Jul 09 j 12:01	17° Mp 48'02		minimum elong	-5096 Nov 01 j 18:08	3° ჲ 22'58	1°48'29
evening set	-5102 Oct 05 j 09:32	19° m /41'58		max. Earth dist.	-5096 Nov 02 j 01:06	3° ჲ 23'38	31.21669 AU
				morning rise	-5096 Nov 16 j 22:09	3° ჲ 57'11	
conjunction	-5102 Oct 20 j 11:06	20° m/ 15'53	2°05'08	retrograde	-5095 Feb 14 j 09:24	5° ≏ 53'23	
minimum elong	-5102 Oct 20 j 11:06	20° m 15'53	2°05'12	opposition	-5095 May 06 j 01:45	4° £ 29'50	1°54'07
max. Earth dist.	-5102 Oct 20 j 13:43	20° m 16'08	31.25990 AU	min. Earth dist.	-5095 May 05 j 18:42	4° م 30'19	29.21242 AU
morning rise	-5102 Nov 04 j 13:03	20° m/49'53		direct	-5095 Jul 24 j 17:58	3° ჲ 06'50	
retrograde	-5101 Feb 01 j 11:24	22° m/45'20		evening set	-5095 Oct 20 j 00:22	5° ഫ 00'06	
opposition	-5101 Apr 22 j 19:27	21° m/22'14	2°12'28	C	,		
min. Earth dist.	-5101 Apr 22 j 16:01		29.25873 AU	conjunction	-5095 Nov 04 j 03:23	5° Ω 34'11	1°45'08
direct	-5101 Jul 12 j 00:54	19° m 59'01		minimum elong	-5095 Nov 04 j 03:24	5° Ω 34'11	
evening set	-5101 Oct 07 j 18:30	21° m 52'52		max. Earth dist.	-5095 Nov 04 j 11:05		31.20600 AU
evening set	5101 Oct 07 j 10.50	21 11/3232		morning rise	-5095 Nov 19 j 07:51	6° £ 08'25	31.20000 710
conjunction	-5101 Oct 22 j 20:04	22° m 26'49	2°02'48	retrograde	-5094 Feb 16 j 22:32	8° £ 08 23	
3	-	22° m 26'49		•	-5094 May 08 j 14:45	6° £ 41'03	1050120
minimum elong	-5101 Oct 22 j 20:05			opposition	, ,		
max. Earth dist.	-5101 Oct 22 j 22:52		31.25480 AU	min. Earth dist.	-5094 May 08 j 05:42		29.20151 AU
morning rise	-5101 Nov 06 j 22:26	23° m 00'51		direct	-5094 Jul 27 j 05:26	5° Ω 18'03	
retrograde	-5100 Feb 03 j 23:33	24° TQ 56'26		evening set	-5094 Oct 22 j 09:17	7° ≏ 11'12	
opposition	-5100 Apr 24 j 08:20	23°M 33'17					
min. Earth dist.	-5100 Apr 24 j 04:43	=	29.25353 AU	conjunction	-5094 Nov 06 j 12:34	7° ≏ 45'19	1°41'38
direct	-5100 Jul 13 j 11:04	22° Mp 10'09		minimum elong	-5094 Nov 06 j 12:34	7° ≏ 45'19	1°41'37
evening set	-5100 Oct 09 j 03:20	24° Mp 03'55		max. Earth dist.	-5094 Nov 06 j 21:05	7° ≏ 46'07	31.19512 AU
				morning rise	-5094 Nov 21 j 17:32	8° ≏ 19'36	
conjunction	-5100 Oct 24 j 05:14	24° m 37'54	2°00'16	retrograde	-5093 Feb 19 j 09:55	10° ≙ 16′00	
minimum elong	-5100 Oct 24 j 05:14	24° m/37'54	2°00'19	opposition	-5093 May 11 j 03:50	8° ჲ 52'13	1°46'39
max. Earth dist.	-5100 Oct 24 j 09:46		31.24936 AU	min. Earth dist.	-5093 May 10 j 18:51		29.19085 AU
morning rise	-5100 Nov 08 j 07:44	25° m 11'57		direct	-5093 Jul 29 j 16:28	7° Ω 29'13	
retrograde	-5099 Feb 05 j 09:39	27° mp 07'41		evening set	-5093 Oct 24 j 18:15	9° £ 22'17	
opposition	-5099 Apr 26 j 21:21	25° Mp 44'30	2°07'04		2 200 21 j 10.13	. 221/	
min. Earth dist.	-5099 Apr 26 j 16:34		29.24759 AU	conjunction	-5093 Nov 08 j 21:57	9° £ 56'25	1°38'00
direct	-5099 Jul 15 j 23:15	23 m/44 49 24° m/21'25	27.24137 AU	minimum elong	-5093 Nov 08 j 21:58	9° ⊆ 56'25	
evening set		24 m/21 23 26° m/15'06		max. Earth dist.	-5093 Nov 09 j 08:10		31.18486 AU
evening set	-5099 Oct 11 j 12:20	20 UV 13 UO					J1.10400 AU
	5000 0 4 26 14 12	2(0m. 4010 =	195712.4	morning rise	-5093 Nov 24 j 03:16	10° Ω 30'44	
conjunction	-5099 Oct 26 j 14:13	26° Mp 49'05	1 3/34	retrograde	-5092 Feb 21 j 21:35	12° ≏ 27'13	

Dlanatamy Dham	omana of Nantuna (5400	th-mough 4000	(III) Astrodion	at A.C. 19 Eak 2025	14.22	25
•	-		•	, , , ,	st AG 18-Feb-2025 : 5093 BCE in historical c		page 25
opposition	-5092 May 12 j 16:32	11° ≏ 03'22		max. Earth dist.	-5086 Nov 24 j 09:12		31.13109 AU
min. Earth dist.	-5092 May 12 j 05:34		29.18092 AU	morning rise	-5086 Dec 09 j 02:05	25° Ω 52'45	
direct	-5092 Jul 31 j 05:21	9° ≙ 40'23		retrograde	-5085 Mar 09 j 12:13	27° ♀ 50'11	
evening set	-5092 Oct 26 j 03:20	11° م 33'22		opposition	-5085 May 29 j 11:23	26° ≏ 26′02	1°10'54
				min. Earth dist.	-5085 May 28 j 18:29	26° ≙ 27'11	29.12712 AU
conjunction	-5092 Nov 10 j 07:14	12° ≏ 07'33	1°34'13	direct	-5085 Aug 16 j 06:32	25° ≏ 03'26	
minimum elong	-5092 Nov 10 j 07:14	12° Ω 07'33	1°34'10	evening set	-5085 Nov 10 j 20:28	26° £ 56'03	
max. Earth dist.	-5092 Nov 10 j 17:39		31.17548 AU		5005 N 26 : 02-15	270 0 20121	1904104
morning rise retrograde	-5092 Nov 25 j 13:09 -5091 Feb 23 j 10:19	12° Ω 41'55 14° Ω 38'31		conjunction minimum elong	-5085 Nov 26 j 03:15 -5085 Nov 26 j 03:15	27° £ 30'31 27° £ 30'31	1°04'04 1°03'57
opposition	-5091 New 25 j 10:19	13° £ 14'36	1°38'33	max. Earth dist.	-5085 Nov 26 j 19:23		31.12172 AU
min. Earth dist.	-5091 May 14 j 18:06		29.17210 AU	morning rise	-5085 Dec 11 j 12:50	28° ⊆ 05'14	31.12172710
direct	-5091 Aug 02 j 15:41	11° ≏ 51'39			-5084 Feb 26 j 23:15	0°M₊	
evening set	-5091 Oct 28 j 12:10	13° ≏ 44'33		retrograde	-5084 Mar 11 j 00:52	0°M02'47	
	v				-5084 Mar 24 j 05:00	30° Ŗ Ω	
conjunction	-5091 Nov 12 j 16:35	14° ≙ 18'46	1°30'17	min. Earth dist.	-5084 May 30 j 08:09	28° ≏ 39'40	29.11710 AU
minimum elong	-5091 Nov 12 j 16:36	14° ≙ 18'46	1°30'15	opposition	-5084 May 31 j 00:21	28° ≏ 38'34	1°05'53
max. Earth dist.	-5091 Nov 13 j 05:09		31.16722 AU	direct	-5084 Aug 17 j 17:30	27° ≏ 15'58	
morning rise	-5091 Nov 27 j 22:51	14° ≙ 53'12		evening set	-5084 Nov 12 j 06:10	29° ഫ 08'31	
retrograde	-5090 Feb 25 j 20:39	16° £ 49'56	102.417		500431 27:12:22	200 0 42101	0050110
opposition	-5090 May 17 j 18:31	15° Ω 25'58	1°34'17	conjunction	-5084 Nov 27 j 13:32	29° Ω 43'01	0°59'19
min. Earth dist. direct	-5090 May 17 j 05:32 -5090 Aug 05 j 03:42	15° ₹26'51 14° ₹203'05	29.16419 AU	minimum elong max. Earth dist.	-5084 Nov 27 j 13:33 -5084 Nov 28 j 06:49	29° £ 43'01 29° £ 44'39	0°59'12 31.11116 AU
evening set	-5090 Oct 30 j 21:21	14 ≥ 03 03 15° £ 55'56		max. Earth dist.	-5084 Dec 05 j 01:04	29 == 44 39 0° ™	31.11110 AU
evening set	3070 Oct 30 j 21.21	15 = 55 50		morning rise	-5084 Dec 12 j 23:34	0°M17'47	
conjunction	-5090 Nov 15 j 02:00	16° ≏ 30'10	1°26'13	retrograde	-5083 Mar 13 j 14:25	2°M15'24	
minimum elong	-5090 Nov 15 j 02:01	16° ≏ 30'11	1°26'10	opposition	-5083 Jun 02 j 13:17	0°M51'06	1°00'45
max. Earth dist.	-5090 Nov 15 j 14:34	16° ≏ 31'22	31.15987 AU	min. Earth dist.	-5083 Jun 01 j 19:43	0°M52'18	29.10583 AU
morning rise	-5090 Nov 30 j 08:57	17° ≙ 04'39			-5083 Jul 06 j 04:58	30° ₹ Ω	
retrograde	-5089 Feb 28 j 09:08	19° ഫ 01'32		direct	-5083 Aug 20 j 06:54	29° ≏ 28'29	
opposition	-5089 May 20 j 07:23	17° ≏ 37'32			-5083 Oct 02 j 14:40	0° M	
min. Earth dist.	-5089 May 19 j 17:30		29.15717 AU	evening set	-5083 Nov 14 j 15:51	1°M20'58	
direct	-5089 Aug 07 j 12:58	16° £ 14'42			500231 20:22.22	10 m 55120	0054120
evening set	-5089 Nov 02 j 06:27	18° ≏ 07'30		conjunction	-5083 Nov 29 j 23:33	1°M55'30	
conjunction	-5089 Nov 17 j 11:39	18° ≏ 41'48	1°22'02	minimum elong max. Earth dist.	-5083 Nov 29 j 23:33 -5083 Nov 30 j 16:29	1°M 57'06	0°54'21 31.09951 AU
minimum elong	-5089 Nov 17 j 11:39	_	1°21'58	morning rise	-5083 Dec 15 j 10:20	2°M30'19	31.09931 AO
max. Earth dist.	-5089 Nov 18 j 02:07		31.15303 AU	retrograde	-5082 Mar 16 j 03:47	4°M28'01	
morning rise	-5089 Dec 02 j 18:59	19° Ω 16'19		min. Earth dist.	-5082 Jun 04 j 08:55		29.09389 AU
retrograde	-5088 Mar 01 j 20:17	21° ≏ 13′21		opposition	-5082 Jun 05 j 02:19	3°M03'36	0°55'33
opposition	-5088 May 21 j 20:22	19° ≙ 49'19	1°25'19	direct	-5082 Aug 22 j 17:57	1°M40'57	
min. Earth dist.	-5088 May 21 j 06:03	19° ≏ 50'18	29.15033 AU	evening set	-5082 Nov 17 j 01:34	3°M33'20	
direct	-5088 Aug 08 j 23:25	18° ≏ 26'35					
evening set	-5088 Nov 03 j 15:44	20° ≏ 19'20		conjunction	-5082 Dec 02 j 09:55	4°M07'55	0°49'34
	5000 NI 10:21 14	200 0 52140	1017140	minimum elong	-5082 Dec 02 j 09:55	4°M07'55	0°49'26
conjunction minimum elong	-5088 Nov 18 j 21:14	20° Ω 53'40		max. Earth dist.	-5082 Dec 03 j 04:32	4°11L09'40 4°11L42'47	31.08743 AU
max. Earth dist.	-5088 Nov 18 j 21:14 -5088 Nov 19 j 11:48	20° £ 53'40 20° £ 55'02	1°17'37 31.14630 AU	morning rise retrograde	-5082 Dec 17 j 21:08 -5081 Mar 18 j 14:21	6°M40'32	
morning rise	-5088 Dec 04 j 05:10	20 ≅ 33 02 21° £ 28'14	51.17030 AU	opposition	-5081 Jun 07 j 15:00	5°M16'00	0°50'16
retrograde	-5087 Mar 04 j 09:52	23° Ω 25'25		min. Earth dist.	-5081 Jun 06 j 20:33		29.08174 AU
opposition	-5087 May 24 j 09:18		1°20'38	direct	-5081 Aug 25 j 06:27	3°M53'19	
min. Earth dist.	-5087 May 23 j 17:37	22° ჲ 02'25	29.14341 AU	evening set	-5081 Nov 19 j 11:27	5°M45'39	
direct	-5087 Aug 11 j 09:23	20° ≏ 38'41					
evening set	-5087 Nov 06 j 01:11	22° ≏ 31'24		conjunction	-5081 Dec 04 j 20:08	6° ™ 20′15	0°44'36
				minimum elong	-5081 Dec 04 j 20:09	6°M20′15	0°44'26
conjunction	-5087 Nov 21 j 07:07	23° Ω 05'46	1°13'16	max. Earth dist.	-5081 Dec 05 j 14:28		31.07552 AU
minimum elong	-5087 Nov 21 j 07:07	23° Ω 05'46	1°13'10	morning rise	-5081 Dec 20 j 08:06	6°M55'10	
max. Earth dist.	-5087 Nov 21 j 22:43		31.13907 AU	retrograde	-5080 Mar 20 j 03:05	8°M52'59	20.07017 411
morning rise	-5087 Dec 06 j 15:32	23° Ω 40'24		min. Earth dist.	-5080 Jun 08 j 08:38	7°IL29'40 7°IL28'21	29.07017 AU
retrograde opposition	-5086 Mar 06 j 22:22 -5086 May 26 j 22:25	25° ♀ 37'43 24° ♀ 13'37	1°15'49	opposition direct	-5080 Jun 09 j 03:47 -5080 Aug 26 j 17:09	6°ML05'39	0°44'54
min. Earth dist.	-5086 May 26 j 07:02		29.13580 AU	evening set	-5080 Aug 20 j 17:09	7°M57'54	
direct	-5086 Aug 13 j 19:57	22° £ 50'59		2. cg 500	2000 1101 20 j 21.10	, 11 0 3/37	
evening set	-5086 Nov 08 j 10:42	24° ≏ 43'39		conjunction	-5080 Dec 06 j 06:26	8°M32'33	0°39'33
	-			minimum elong	-5080 Dec 06 j 06:26	8°M32'33	0°39'23
conjunction	-5086 Nov 23 j 17:07	25° ≏ 18'04	1°08'43	max. Earth dist.	-5080 Dec 07 j 02:34		31.06427 AU
minimum elong	-5086 Nov 23 j 17:07	25° ≏ 18'04	1°08'37	morning rise	-5080 Dec 21 j 18:49	9°M07'31	

•	omena of Neptune f		•				page 26
	ical year style is used: Th	-	in astronomical co				
retrograde	-5079 Mar 22 j 14:12	11°M05'24		max. Earth dist.	-5074 Dec 20 j 21:37		31.01326 AU
opposition	-5079 Jun 11 j 16:33	9°M40'41		morning rise	-5073 Jan 04 j 14:48	22°M23'58	
min. Earth dist.	-5079 Jun 10 j 20:55		29.05937 AU	retrograde	-5073 Apr 05 j 22:07	24°M22'27	0005147
direct	-5079 Aug 29 j 04:37	8°M17'59		opposition	-5073 Jun 25 j 20:34	22°M57'33	
evening set	-5079 Nov 23 j 07:08	10°ML10'11		min. Earth dist.	-5073 Jun 24 j 22:12		29.00918 AU
agnismation	5070 Dec 09 : 16:50	10° ™ 44'52	0024126	direct	-5073 Sep 11 j 20:13	21°M34'56 23°M27'08	
conjunction minimum elong	-5079 Dec 08 j 16:50 -5079 Dec 08 j 16:50	10°11.44'52		evening set	-5073 Dec 06 j 21:25	23"1162/108	
max. Earth dist.	-5079 Dec 08 j 10:30		31.05415 AU	conjunction	-5073 Dec 22 j 10:13	24°M02'05	0°02'53
morning rise	-5079 Dec 24 j 05:53	11°ML19'53	31.03413 AO	minimum elong	-5073 Dec 22 j 10:13	24°M02'05	
retrograde	-5078 Mar 25 j 03:03	13°M17'51		behind sun begin	-5073 Dec 22 j 03:46	24°M01'30	0 02 40
min. Earth dist.	-5078 Jun 13 j 08:10		29.04981 AU	behind sun end	-5073 Dec 22 j 16:39	24°ML02'40	
opposition	-5078 Jun 14 j 05:14	11°M53'05		max. Earth dist.	-5073 Dec 23 j 10:09		31.00418 AU
direct	-5078 Aug 31 j 14:45	10°M30'22		morning rise	-5072 Jan 07 j 02:35	24°M37'24	
evening set	-5078 Nov 25 j 17:07	12°M22'32		retrograde	-5072 Apr 07 j 10:31	26°M35'57	
8	,			min. Earth dist.	-5072 Jun 26 j 10:18		28.99945 AU
conjunction	-5078 Dec 11 j 03:21	12°M57'16	0°29'16	opposition	-5072 Jun 27 j 09:11	25°M11'01	0°00'04
minimum elong	-5078 Dec 11 j 03:21	12°M57'16	0°29'05	desc. node	-5072 Jul 02 j 02:08	25°M03'16	
max. Earth dist.	-5078 Dec 12 j 00:44	12°M59'17	31.04502 AU	direct	-5072 Sep 13 j 08:44	23°M48'25	
morning rise	-5078 Dec 26 j 16:59	13°M32'20		evening set	-5072 Dec 08 j 08:17	25°M40'37	
	-5077 Feb 11 j 22:25	15° ™					
retrograde	-5077 Mar 27 j 14:39	15°M30'24		conjunction	-5072 Dec 23 j 21:25	26°M15'36	-0°02'36
	-5077 May 11 j 18:35	15°RM		minimum elong	-5072 Dec 23 j 21:26	26°M15'36	0°02'49
opposition	-5077 Jun 16 j 17:59	14°M05'35	0°28'24	behind sun begin	-5072 Dec 23 j 14:59	26°M15'01	
min. Earth dist.	-5077 Jun 15 j 21:06	14°M07'01	29.04113 AU	behind sun end	-5072 Dec 24 j 03:52	26°M16'11	
direct	-5077 Sep 03 j 00:50	12°M42'53		max. Earth dist.	-5072 Dec 24 j 20:25	26°M17'46	30.99390 AU
evening set	-5077 Nov 28 j 03:15	14°M35'02		morning rise	-5071 Jan 08 j 14:31	26°M50'58	
	-5077 Dec 09 j 06:19	15°M		retrograde	-5071 Apr 10 j 00:49	28°M49'35	
				opposition	-5071 Jun 29 j 21:55	27°M24'36	-0°05'38
conjunction	-5077 Dec 13 j 14:02	15°M09'48	0°24'03	min. Earth dist.	-5071 Jun 28 j 23:01	27°M26'10	28.98862 AU
minimum elong	-5077 Dec 13 j 14:02	15°M09'48	0°23'52	direct	-5071 Sep 15 j 19:58	26°M01'58	
max. Earth dist.	-5077 Dec 14 j 12:07	15°M11'54	31.03683 AU	evening set	-5071 Dec 10 j 19:13	27°M54'09	
morning rise	-5077 Dec 29 j 04:11	15°M44'55					
retrograde	-5076 Mar 29 j 04:20	17°M43'05		conjunction	-5071 Dec 26 j 08:59	28°M29'11	-0°07'55
min. Earth dist.	-5076 Jun 17 j 08:00	16° ™ 19'47	29.03317 AU	minimum elong	-5071 Dec 26 j 08:58	28°M29'11	0°08'09
opposition	-5076 Jun 18 j 06:28	16°M18'15	0°22'48	behind sun begin	-5071 Dec 26 j 03:13	28°M28'40	
	-5076 Aug 19 j 07:34	15°RM		behind sun end	-5071 Dec 26 j 14:44	28°M29'42	
direct	-5076 Sep 04 j 10:59	14°M55'34		max. Earth dist.	-5071 Dec 27 j 09:01	28°M31'27	30.98250 AU
	-5076 Sep 20 j 11:31	15°M		morning rise	-5070 Jan 11 j 02:30	29°M04'35	
evening set	-5076 Nov 29 j 13:36	16°M47'44			-5070 Feb 07 j 04:24	0° ∡ ¹	
				retrograde	-5070 Apr 12 j 12:39	1° ≯ 03'16	
conjunction	-5076 Dec 15 j 00:45	17°M22'33			-5070 Jun 19 j 02:35	30°RML	
minimum elong	-5076 Dec 15 j 00:45	17°M22'33	0°18'36	min. Earth dist.	-5070 Jul 01 j 11:47		28.97680 AU
max. Earth dist.	-5076 Dec 15 j 23:03	17° M 24'39	31.02904 AU	opposition	-5070 Jul 02 j 10:26	29°M38'12	-0°11'20
morning rise	-5076 Dec 30 j 15:34	17° M 57'43		direct	-5070 Sep 18 j 07:56	28°M15'31	
retrograde	-5075 Mar 31 j 17:38	19°M55'59			-5070 Dec 09 j 18:00	0° ∡ ¹	
opposition	-5075 Jun 20 j 19:17	18°M31'08		evening set	-5070 Dec 13 j 06:14	0° ∡ 07'41	
min. Earth dist.	-5075 Jun 19 j 21:24		29.02554 AU		5080 T		001211
direct	-5075 Sep 06 j 21:18	17° ™ 08'29		conjunction	-5070 Dec 28 j 20:28	0° ∡ 142'45	
evening set	-5075 Dec 01 j 23:52	19° ™ 00'39		minimum elong	-5070 Dec 28 j 20:28	0° ∡ ′42'45	0°13'27
				behind sun begin	-5070 Dec 28 j 16:48	0° ∡ ′42′25	
conjunction	-5075 Dec 17 j 11:40	19°M35'31		behind sun end	-5070 Dec 29 j 00:08	0° ∡ 743'05	
minimum elong	-5075 Dec 17 j 11:40	19°M35'31	0°13'18	max. Earth dist.	-5070 Dec 29 j 20:05		30.97053 AU
behind sun begin	-5075 Dec 17 j 07:54	19°M35'10		morning rise	-5069 Jan 13 j 14:38	1° ≯ 18'12	
behind sun end	-5075 Dec 17 j 15:27	19°M35'51		retrograde	-5069 Apr 15 j 01:23	3° ∡ 16'54	
max. Earth dist.	-5075 Dec 18 j 11:14		31.02143 AU	opposition	-5069 Jul 04 j 22:52	1° 🗷 51'46	
morning rise	-5074 Jan 02 j 02:57	20°M10'43		min. Earth dist.	-5069 Jul 03 j 23:29		28.96472 AU
retrograde	-5074 Apr 03 j 07:57	22°M09'06	20.01770	direct	-5069 Sep 20 j 18:50	0° ₹ 29'01	
min. Earth dist.	-5074 Jun 22 j 08:54		29.01768 AU	evening set	-5069 Dec 15 j 17:20	2° ₹ 21'11	
opposition	-5074 Jun 23 j 07:56	20°M44'14	0~11′29		50(0 D 21 : 00 01	20 75045	0010121
direct	-5074 Sep 09 j 09:50	19°M21'37		conjunction	-5069 Dec 31 j 08:01	2° 🗷 56'17	
evening set	-5074 Dec 04 j 10:39	21°M13'48		minimum elong	-5069 Dec 31 j 08:01	2° 🖈 56'17	
aanimati	5074 Dec. 10: 22.47	210m 40142	0000112	max. Earth dist.	-5068 Jan 01 j 08:13		30.95835 AU
conjunction	-5074 Dec 19 j 22:47	21°M48'42		morning rise	-5068 Jan 16 j 02:40	3°×31'46	
minimum elong	-5074 Dec 19 j 22:47	21°M48'42	0°08'00	retrograde	-5068 Apr 16 j 12:17	5°× 7 30'31	0022141
behind sun begin	-5074 Dec 19 j 17:01	21°M48'11		opposition	-5068 Jul 06 j 11:10	4° ₹ 05'17	
behind sun end	-5074 Dec 20 j 04:34	21°M49'13		min. Earth dist.	-5068 Jul 05 j 12:20	+ x 00 32	28.95285 AU

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5068 in astronomical counting style is the year 5069 BCE in historical counting style. direct -5068 Sep 22 i 05:07 2°×42'30 retrograde -5061 May 03 j 10:51 21°× 07'12 -5068 Dec 17 j 04:24 4°**х** 34′39 min. Earth dist. -5061 Jul 21 j 23:53 19° **₹**'43'31 28.89981 AU evening set opposition -5061 Jul 23 j 00:11 19°**∡** 41'49 -1°00'57 18°**∡**18'52 -5067 Jan 01 j 19:38 5°×109'47 -0°23'47 -5061 Oct 08 j 11:26 direct conjunction -5067 Jan 01 j 19:38 5°**х** 09'47 0°24'02 -5060 Jan 02 j 13:44 20°**∡**11′21 minimum elong evening set 5°**х** 12'06 30.94695 AU -5067 Jan 02 j 20:19 max. Earth dist. -5060 Jan 18 j 08:07 20°**х** 46'43 -0°59'22 morning rise -5067 Jan 17 j 14:45 5°×745'18 conjunction -5067 Apr 19 j 01:46 7°**х** 44′05 -5060 Jan 18 j 08:07 0°59'39 retrograde minimum elong 20°**х** 46′43 -5060 Jan 19 j 09:56 -5067 Jul 08 j 23:22 opposition 6°**х** 18'48 -0°28'18 max. Earth dist. 20°**₹**49'09 30.89622 AU min. Earth dist. -5067 Jul 07 j 23:07 6°**尽**20′29 28.94197 AU morning rise -5060 Feb 03 j 06:35 21°×22'29 direct -5067 Sep 24 j 15:17 4° x 55'56 retrograde -5060 May 05 j 00:58 23°**х** 21'35 -5067 Dec 19 j 15:37 6°**х¹**48′07 -5060 Jul 23 j 11:42 evening set min. Earth dist. 21°**尽**57'55 28.89371 AU -5060 Jul 24 j 12:13 opposition 21°**₹**56'12 -1°06'08 conjunction -5066 Jan 04 j 07:13 7°**∡**123'17 -0°29'01 direct -5060 Oct 09 j 22:34 20°**х** 33'14 minimum elong -5066 Jan 04 j 07:13 7°**∡**23'17 0°29'17 evening set -5059 Jan 04 j 02:02 22°×25'46 max. Earth dist. -5066 Jan 05 j 07:58 7°**҂**25'37 30.93656 AU morning rise -5066 Jan 20 j 02:57 7°**х** 58′50 conjunction -5059 Jan 19 j 20:51 23°**х**101'10 -1°04'10 retrograde -5066 Apr 21 j 14:08 9°**х** 57'40 minimum elong -5059 Jan 19 j 20:51 23°**₹**01'10 1°04'26 opposition -5066 Jul 11 j 11:42 8°**∡**³32'20 -0°33'53 max. Earth dist. -5059 Jan 20 j 22:39 23°**✗¹**03'36 30.88957 AU min. Earth dist. -5066 Jul 10 j 12:07 8°**∡**33'58 28.93231 AU morning rise -5059 Feb 04 j 19:42 23°**∡**¹36'58 direct -5066 Sep 27 j 01:50 7°**₹**09'26 retrograde -5059 May 07 j 13:08 25° **₹** 36'05 evening set -5066 Dec 22 i 02:54 9°**х** 01′38 min. Earth dist. -5059 Jul 26 i 01:00 24°**✗**12'19 28.88668 AU opposition -5059 Jul 27 i 00:23 24°**₹**10'41 -1°11'13 conjunction -5065 Jan 06 i 19:09 9°**х** 36′50 -0°34′13 direct -5059 Oct 12 i 09:25 22°**х** 47'40 -5065 Jan 06 j 19:09 9°**х** 36′50 0°34′28 evening set -5058 Jan 06 j 14:20 24°**х** 40′14 minimum elong -5065 Jan 07 j 21:05 9°**尽**39'17 30.92757 AU max. Earth dist. -5065 Jan 22 j 15:14 10°**х** 12′25 -5058 Jan 22 j 09:41 25°**₹**15'40 -1°08'52 morning rise conjunction -5065 Apr 24 j 03:48 12°**₹**11'18 -5058 Jan 22 j 09:41 25°**₹**15'40 1°09'09 retrograde minimum elong -5065 Jul 13 j 23:39 -5058 Jan 23 j 11:06 25°**✗**18'04 30.88214 AU 10°**∡**¹45'55 -0°39'25 max. Earth dist. opposition -5065 Jul 12 j 22:52 10°**∡**′47′39 28.92398 AU -5058 Feb 07 j 08:57 25°**₹**'51'29 min. Earth dist. morning rise -5065 Sep 29 j 13:46 -5058 May 10 j 03:00 9°**х** 23′00 retrograde 27°**х** 50′36 direct 26°**₹**25'10 -1°16'11 -5065 Dec 24 j 14:27 -5058 Jul 29 j 12:22 11°**∡**15′15 evening set opposition -5058 Jul 28 j 12:23 min. Earth dist. 26°**≯**26'51 28.87882 AU -5064 Jan 09 j 06:59 11°**₹**50'29 -0°39'23 -5058 Oct 14 j 20:41 25°**х** 02'04 conjunction direct -5064 Jan 09 j 06:59 -5057 Jan 09 j 02:55 26°**₹**54'42 minimum elong 11° \$\square\$ 50'29 0°39'38 evening set -5064 Jan 10 j 08:17 max. Earth dist. 11°**≯**52'52 30.91985 AU -5064 Jan 25 j 03:43 -5057 Jan 24 j 22:35 27°**х** 30′09 -1°13′29 morning rise 12°**∡**¹26′07 conjunction retrograde -5064 Apr 25 j 17:39 14°**х** 25′02 minimum elong -5057 Jan 24 j 22:35 27°**∡**130′09 1°13′45 min. Earth dist. -5064 Jul 14 j 11:35 13°**✗**'01'20 28.91697 AU max. Earth dist. -5057 Jan 25 j 23:15 27°**✗**32'29 30.87385 AU -5064 Jul 15 j 11:53 12°**∡** 59'39 -0°44'54 morning rise -5057 Feb 09 j 22:20 28°**₰**06'00 opposition direct -5064 Sep 30 j 23:34 11°**х** 36′43 -5057 Apr 24 j 23:10 0°궁 -5064 Dec 26 j 01:48 13°**х** 29′00 -5057 May 12 j 14:27 0°る05'06 evening set retrograde -5057 May 30 j 10:39 30°R.**✓** -5063 Jan 10 j 18:57 14°**₹**04'16 -0°44'28 min. Earth dist. -5057 Jul 31 j 01:39 28°**⊀**41'12 28.87044 AU conjunction -5063 Jan 10 j 18:57 14°**₹**04'16 0°44'44 -5057 Aug 01 j 00:15 28°**∡**¹39'37 -1°21'03 minimum elong opposition -5063 Jan 11 j 21:40 14°**✗**06'47 30.91331 AU max. Earth dist. direct -5057 Oct 17 i 07:16 27° **₹**16'27 morning rise -5063 Jan 26 j 16:00 14°**х** 39′56 evening set -5056 Jan 11 i 15:22 29°**₹**09'07 retrograde -5063 Apr 28 i 07:00 16°**х** 38′55 29°**х** 44'36 -1°17'58 opposition -5063 Jul 17 j 24:00 15° ₹13'31 -0°50'19 conjunction -5056 Jan 27 i 11:36 min. Earth dist. -5063 Jul 16 i 23:02 15° ₹ 15'15 28.91086 AU minimum elong -5056 Jan 27 i 11:35 29°**₹**44'36 1°18'15 direct -5063 Oct 03 j 12:04 13°**х** 50′35 max. Earth dist. -5056 Jan 28 j 12:49 29° 🗷 46'58 30.86544 AU -5063 Dec 28 j 13:38 15°**∡**¹42'56 -5056 Feb 03 j 07:17 0°궁 evening set morning rise -5056 Feb 12 j 11:35 0°**궁**20'27 2°**る**19'32 conjunction -5062 Jan 13 j 07:06 16° **₹** 18'15 -0°49'31 retrograde -5056 May 14 j 03:24 -5062 Jan 13 j 07:06 minimum elong 16° **₹**18'15 0°49'47 opposition -5056 Aug 02 j 12:00 0°る54'00 -1°25'47 0°る55'38 28.86215 AU max. Earth dist. -5062 Jan 14 j 08:54 16°**∡**′20'40 30.90758 AU min. Earth dist. -5056 Aug 01 j 12:43 -5062 Jan 29 j 04:46 16°**х** 53′57 -5056 Sep 06 j 08:53 30°R.✓ morning rise 18°**∡** 52'58 -5062 Apr 30 j 22:39 -5056 Oct 18 j 19:16 29°**х** 30'45 retrograde direct -5062 Jul 19 j 11:17 17°**∡**29'18 28.90542 AU -5056 Nov 29 j 04:49 0°정 min. Earth dist. -5062 Jul 20 j 12:05 17°**₹**27'35 -0°55'40 -5055 Jan 13 j 03:52 1°る23'28 opposition evening set 16°**х** 04'38 direct -5062 Oct 05 j 23:27 evening set -5062 Dec 31 j 01:34 17°**∡** 57′03 conjunction -5055 Jan 29 j 00:20 1°る58'58 -1°22'20 minimum elong -5055 Jan 29 j 00:19 1°る58'58 1°22'36 conjunction -5061 Jan 15 j 19:37 18°**∡**32'24 -0°54'29 max. Earth dist. -5055 Jan 30 j 00:33 2°る01'15 30.85737 AU minimum elong -5061 Jan 15 j 19:36 18°**∡**32'24 0°54'45 morning rise -5055 Feb 14 j 00:51 2°る34'51 -5061 Jan 16 j 22:18 18°**∡**34'55 30.90205 AU -5055 May 16 j 16:43 4°る33'55 max. Earth dist. retrograde -5061 Jan 31 j 17:36 19°**₰**08'08 -5055 Aug 04 j 23:51 3°る08'21 -1°30'24 morning rise opposition

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5055 in astronomical counting style is the year 5056 BCE in historical counting style. 3°る09'56 28.85463 AU min. Earth dist. -5055 Aug 04 i 01:27 morning rise -5048 Mar 02 j 00:36 18°る17'50 -5055 Oct 21 j 05:14 1°る45'02 -5048 Jun 01 j 15:00 20°**ප**16'51 direct retrograde -5054 Jan 15 j 16:27 3°る37'49 -5048 Aug 20 j 08:38 18°る51'30 -1°58'30 evening set opposition -5048 Aug 19 j 12:29 18°る52'55 28.83397 AU min. Earth dist. 4°る13'20 -1°26'35 -5048 Nov 05 j 13:14 conjunction -5054 Jan 31 j 13:29 direct 17°る28'00 -5047 Jan 31 j 12:14 -5054 Jan 31 j 13:29 minimum elong 4°**ප**13'20 1°26'52 evening set 19°**ට**21'30 -5054 Feb 01 j 14:42 max. Earth dist. 4°る15'42 30.85026 AU -5047 Feb 16 j 11:51 morning rise -5054 Feb 16 j 14:12 4°**る**49'14 conjunction 19°る57'12 -1°52'21 -5047 Feb 16 j 11:51 retrograde -5054 May 19 j 05:52 6°**ප**48'17 minimum elong 19°る57'12 1°52'36 5°る22'42 -1°34'52 opposition -5054 Aug 07 j 11:22 max. Earth dist. -5047 Feb 17 j 10:39 19°る59'20 30.83181 AU min. Earth dist. -5054 Aug 06 j 12:36 5°る24'18 28.84815 AU morning rise -5047 Mar 04 j 14:40 20°る33'13 -5054 Oct 23 j 17:57 3°る59'19 -5047 Jun 04 j 04:27 22°る32'13 direct retrograde -5053 Jan 18 j 05:17 5°**る**52'10 evening set opposition -5047 Aug 22 j 20:07 21°る06'54 -2°01'50 min. Earth dist. -5047 Aug 21 j 23:51 21°る08'20 28.83214 AU conjunction -5053 Feb 03 j 02:34 6°る27'44 -1°30'42 direct -5047 Nov 08 j 00:48 19°る43'21 minimum elong -5053 Feb 03 j 02:34 6°る27'43 1°30'58 evening set -5046 Feb 03 j 02:05 21°る36'58 max. Earth dist. -5053 Feb 04 j 02:35 6°る29'59 30.84444 AU morning rise -5053 Feb 19 j 03:47 7°る03'38 conjunction -5046 Feb 19 j 01:55 22°る12'41 -1°55'24 retrograde -5053 May 21 j 21:09 9°る02'40 minimum elong -5046 Feb 19 j 01:54 22°る12'41 1°55'40 opposition -5053 Aug 09 j 23:01 7°る37'06 -1°39'12 max. Earth dist. -5046 Feb 19 j 22:54 22°る14'39 30.82944 AU min. Earth dist. -5053 Aug 09 j 00:25 7°る38'41 28.84316 AU morning rise -5046 Mar 07 j 05:09 22°る48'43 direct -5053 Oct 26 i 05:28 6°る13'39 retrograde -5046 Jun 06 i 17:19 24°る47'39 evening set -5052 Jan 20 j 17:59 8°**궁**06'36 opposition -5046 Aug 25 i 07:36 23°る22'22 -2°05'00 min. Earth dist. -5046 Aug 24 i 12:58 23°る23'41 28.82941 AU conjunction -5052 Feb 05 i 15:45 8°중42'12 -1°34'41 direct -5046 Nov 10 i 10:36 21°る58'44 -5052 Feb 05 j 15:44 8°중42'12 1°34'58 -5045 Feb 05 j 15:51 23°る52'25 minimum elong evening set -5052 Feb 06 j 16:44 8°る44'32 30.84000 AU max Earth dist -5052 Feb 21 j 17:07 9°る18'07 -5045 Feb 21 j 16:12 24°₹28'10 -1°58'16 morning rise conjunction -5052 May 23 j 09:12 11°る17'09 -5045 Feb 21 j 16:11 24° ට 28'10 1°58'31 retrograde minimum elong 9°**る**51'36 -1°43'23 -5045 Feb 22 j 13:18 -5052 Aug 11 j 10:34 24°る30'08 30.82622 AU opposition max. Earth dist. -5052 Aug 10 j 12:18 9°る53'10 28.83948 AU -5045 Mar 09 j 19:30 min. Earth dist. morning rise 25°**る**04'12 -5052 Oct 27 j 17:27 -5045 Jun 09 j 05:43 27°る03'04 8°る28'09 retrograde direct -5045 Aug 27 j 18:59 -5051 Jan 22 j 06:57 25°る37'46 -2°07'58 10°る21'11 opposition evening set -5045 Aug 27 j 00:38 25°る39'04 28.82579 AU min. Earth dist. -5051 Feb 07 j 05:01 10°る56'48 -1°38'32 -5045 Nov 12 j 23:58 24°**る**14'04 conjunction direct 10°**ප්**56'48 1°38'48 -5051 Feb 07 j 05:01 -5044 Feb 08 j 05:38 26°る07'49 minimum elong evening set -5051 Feb 08 j 05:10 10°る59'04 30.83710 AU max. Earth dist. morning rise -5051 Feb 23 j 06:49 11°る32'45 conjunction -5044 Feb 24 j 06:08 26°る43'34 -2°00'57 retrograde -5051 May 26 j 00:13 13°**る**31'47 minimum elong -5044 Feb 24 j 06:08 26°る43'34 2°01'13 opposition -5051 Aug 13 j 22:04 12°る06'16 -1°47'25 max. Earth dist. -5044 Feb 25 j 01:20 26°る45'22 30.82237 AU min. Earth dist. -5051 Aug 12 j 23:30 12°る07'51 28.83729 AU morning rise -5044 Mar 11 j 09:51 27°**る**19'36 -5051 Oct 30 j 04:45 10°る42'48 retrograde -5044 Jun 10 j 19:45 29°**る**18'23 direct -5050 Jan 24 j 20:00 12°る35'57 -5044 Aug 29 j 06:21 27°る53'04 -2°10'44 evening set opposition min. Earth dist. -5044 Aug 28 j 12:48 27°る54'19 28.82193 AU -5050 Feb 09 j 18:29 13°る11'35 -1°42'13 -5044 Nov 14 j 11:48 26°**♂**29'16 conjunction direct -5050 Feb 09 i 18:28 -5043 Feb 09 i 19:23 28°る23'05 minimum elong 13°る11'35 1°42'30 evening set max. Earth dist. -5050 Feb 10 i 18:49 13°る13'53 30.83530 AU -5050 Feb 25 i 20:33 -5043 Feb 25 i 20:22 28°る58'51 -2°03'27 morning rise 13°る47'34 conjunction -5043 Feb 25 i 20:22 retrograde -5050 May 28 j 13:20 15°**⋜**46'36 minimum elong 28°る58'51 2°03'42 -5050 Aug 16 j 09:40 14°**ප**21'08 -1°51'16 max. Earth dist. -5043 Feb 26 i 15:58 29°る00'41 30.81844 AU opposition 14°る22'38 28.83595 AU min. Earth dist. -5050 Aug 15 j 12:16 morning rise -5043 Mar 14 j 00:09 29°る34'54 -5050 Nov 01 j 15:45 12°る57'40 -5043 Mar 25 j 18:28 direct 0°≈≈ -5049 Jan 27 j 09:18 14°**ප**50'56 retrograde -5043 Jun 13 j 07:45 evening set 1°≈33'34 opposition -5043 Aug 31 j 17:31 0°≈08'15 -2°13'19 -5043 Aug 31 j 00:49 conjunction -5049 Feb 12 j 08:11 15°**ප්**26'36 -1°45'46 min. Earth dist. 0°≈09'26 28.81820 AU -5043 Sep 05 j 13:52 minimum elong -5049 Feb 12 j 08:11 15°る26'36 1°46'02 30°Rる 28°る44'20 max. Earth dist. -5049 Feb 13 j 07:58 15°る28'50 30.83426 AU direct -5043 Nov 17 j 00:02 -5049 Feb 28 j 10:31 16°る02'35 -5042 Jan 25 j 02:25 morning rise 0°≈ -5049 May 31 j 03:26 18°る01'37 -5042 Feb 12 j 09:17 retrograde evening set 0°≈38'14 16°**ප**36'13 -1°54'58 -5049 Aug 18 j 21:00 opposition -5049 Aug 17 j 23:12 16°る37'45 28.83506 AU -5042 Feb 28 j 10:31 1°≈14'00 -2°05'46 min. Earth dist. conjunction direct -5049 Nov 04 j 02:59 15°**る**12'44 minimum elong -5042 Feb 28 j 10:31 1°≈14'00 2°06'01 evening set -5048 Jan 29 j 22:50 17°る06'08 max. Earth dist. -5042 Mar 01 j 04:42 1°≈15'42 30.81506 AU morning rise -5042 Mar 16 j 14:41 1°≈50'03 conjunction -5048 Feb 14 j 21:57 17°る41'49 -1°49'08 retrograde -5042 Jun 15 j 22:43 3°≈48'38 minimum elong -5048 Feb 14 j 21:57 17°る41'49 1°49'25 -5042 Sep 03 j 04:39 2°≈23'17 -2°15'41 opposition max. Earth dist. -5048 Feb 15 j 20:48 17°る43'57 30.83321 AU min. Earth dist. -5042 Sep 02 j 12:01 2°≈24'28 28.81526 AU

Planetary Pheno	omena of Neptune f	from -5400	through -4898	3 (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 29
•	nical year style is used: Th		•				
direct	-5042 Nov 19 j 12:41	0° ≈ 59'17		conjunction	-5035 Mar 16 j 15:06	16° ≈ 59'49	-2°16'23
evening set	-5041 Feb 14 j 23:12	2°≈53'15		minimum elong	-5035 Mar 16 j 15:06	16° ≈ 59'49	2°16'35
	·			max. Earth dist.	-5035 Mar 17 j 04:11	17° ≈ 01'02	30.82088 AU
conjunction	-5041 Mar 03 j 00:47	3° ≈ 29'03	-2°07'53	morning rise	-5035 Apr 01 j 20:30	17° ≈ 35'54	
minimum elong	-5041 Mar 03 j 00:47	3° ≈ 29'03	2°08'07	retrograde	-5035 Jul 01 j 16:17	19° ≈ 33'55	
max. Earth dist.	-5041 Mar 03 j 18:57	3° ≈ 30'45	30.81243 AU	opposition	-5035 Sep 18 j 09:35	18° ≈ 08'58	-2°26'15
morning rise	-5041 Mar 19 j 05:02	4°≈05'06		min. Earth dist.	-5035 Sep 17 j 21:57		28.82389 AU
retrograde	-5041 Jun 18 j 11:06	6°≈03'34		direct	-5035 Dec 04 j 20:39	16° ≈ 44'41	
opposition	-5041 Sep 05 j 15:44	4° ≈ 38'14	-2°17'50	evening set	-5034 Mar 03 j 02:17	18° ≈ 39'26	
min. Earth dist.	-5041 Sep 05 j 00:22	4° ≈ 39′20	28.81329 AU	•	·		
direct	-5041 Nov 22 j 00:51	3°≈14'10		conjunction	-5034 Mar 19 j 06:02	19° ≈ 15′20	-2°17'04
evening set	-5040 Feb 17 j 13:05	5°≈08'13		minimum elong	-5034 Mar 19 j 06:02	19° ≈ 15′20	2°17'17
-	-			max. Earth dist.	-5034 Mar 19 j 18:57	19° ≈ 16'33	30.82302 AU
conjunction	-5040 Mar 04 j 14:59	5°≈44'01	-2°09'48	morning rise	-5034 Apr 04 j 11:24	19° ≈ 51'25	
minimum elong	-5040 Mar 04 j 14:59	5°≈44'01	2°10'03	retrograde	-5034 Jul 04 j 04:25	21° ≈ 49′20	
max. Earth dist.	-5040 Mar 05 j 08:24	5° ≈ 45'39	30.81119 AU	opposition	-5034 Sep 20 j 20:36	20° ≈ 24'27	-2°26'53
morning rise	-5040 Mar 20 j 19:27	6° ≈ 20'04		min. Earth dist.	-5034 Sep 20 j 10:15	20°≈25'11	28.82553 AU
retrograde	-5040 Jun 20 j 00:56	8°≈18'27		direct	-5034 Dec 07 j 08:42	19° ≈ 00'08	
min. Earth dist.	-5040 Sep 06 j 10:48	6°≈54'17	28.81276 AU	evening set	-5033 Mar 05 j 16:52	20°≈54'59	
opposition	-5040 Sep 07 j 02:43	6°≈53'09	-2°19'47	•	·		
direct	-5040 Nov 23 j 13:09	5° ≈ 29'01		conjunction	-5033 Mar 21 j 20:46	21° ≈ 30'54	-2°17'33
evening set	-5039 Feb 19 j 02:58	7° ≈ 23'09		minimum elong	-5033 Mar 21 j 20:46	21° ≈ 30'54	2°17'44
	·			max. Earth dist.	-5033 Mar 22 j 07:29	21° ≈ 31'54	30.82428 AU
conjunction	-5039 Mar 07 j 05:08	7° ≈ 58'59	-2°11'32	morning rise	-5033 Apr 07 j 02:23	22°≈06'58	
minimum elong	-5039 Mar 07 j 05:08	7° ≈ 58'59	2°11'45	retrograde	-5033 Jul 06 j 19:01	24°≈04'46	
max. Earth dist.	-5039 Mar 07 j 21:51	8° ≈ 00'32	30.81126 AU	opposition	-5033 Sep 23 j 07:26	22° ≈ 39'55	-2°27'17
morning rise	-5039 Mar 23 j 09:50	8° ≈ 35'02		min. Earth dist.	-5033 Sep 22 j 21:39	22° ≈ 40'37	28.82640 AU
retrograde	-5039 Jun 22 j 12:54	10° ≈ 33′20		direct	-5033 Dec 09 j 21:48	21°≈15'32	
opposition	-5039 Sep 09 j 13:52	9° ≈ 08'04	-2°21'31	evening set	-5032 Mar 07 j 07:21	23° ≈ 10′28	
min. Earth dist.	-5039 Sep 08 j 23:24	9° ≈ 09'06	28.81358 AU	•	·		
direct	-5039 Nov 25 j 23:38	7°≈43'54		conjunction	-5032 Mar 23 j 11:35	23° ≈ 46'24	-2°17'50
evening set	-5038 Feb 21 j 16:58	9° ≈ 38'09		minimum elong	-5032 Mar 23 j 11:35	23° ≈ 46'24	2°18'01
	·			max. Earth dist.	-5032 Mar 23 j 21:52	23° ≈ 47'21	30.82476 AU
conjunction	-5038 Mar 09 j 19:35	10° ≈ 13'59	-2°13'03	morning rise	-5032 Apr 08 j 17:13	24° ≈ 22'28	
minimum elong	-5038 Mar 09 j 19:35	10° ≈ 13'59	2°13'17	retrograde	-5032 Jul 08 j 07:02	26° ≈ 20'09	
max. Earth dist.	-5038 Mar 10 j 12:14	10°≈15'33	30.81275 AU	opposition	-5032 Sep 24 j 18:20	24° ≈ 55'19	-2°27'28
morning rise	-5038 Mar 26 j 00:23	10° ≈ 50′03		min. Earth dist.	-5032 Sep 24 j 10:18	24° ≈ 55'53	28.82665 AU
retrograde	-5038 Jun 25 j 02:31	12° ≈ 48'16		direct	-5032 Dec 11 j 10:39	23° ≈ 30'51	
min. Earth dist.	-5038 Sep 11 j 09:59	11° ≈ 24′08	28.81556 AU	evening set	-5031 Mar 09 j 21:42	25° ≈ 25'51	
opposition	-5038 Sep 12 j 00:40	11° ≈ 23′05	-2°23'02	•	·		
direct	-5038 Nov 28 j 11:17	9° ≈ 58'53		conjunction	-5031 Mar 26 j 02:14	26°≈01'47	-2°17'54
evening set	-5037 Feb 24 j 07:16	11° ≈ 53'15		minimum elong	-5031 Mar 26 j 02:14	26° ≈ 01'47	2°18'04
	·			max. Earth dist.	-5031 Mar 26 j 11:04	26° ≈ 02'37	30.82502 AU
conjunction	-5037 Mar 12 j 10:00	12° ≈ 29'07	-2°14'22	morning rise	-5031 Apr 11 j 08:05	26° ≈ 37'52	
minimum elong	-5037 Mar 12 j 10:00	12° ≈ 29'07	2°14'35	retrograde	-5031 Jul 10 j 20:47	28° ≈ 35'23	
max. Earth dist.	-5037 Mar 13 j 01:08	12° ≈ 30'32	30.81515 AU	opposition	-5031 Sep 27 j 05:00	27°≈10'35	-2°27'25
morning rise	-5037 Mar 28 j 15:06	13° ≈ 05'11		min. Earth dist.	-5031 Sep 26 j 20:56	27°≈11'09	28.82684 AU
-	-5037 Jun 13 j 11:39	15° ≈		direct	-5031 Dec 13 j 23:55	25°≈46'01	
retrograde	-5037 Jun 27 j 14:39	15° ≈ 03'21		evening set	-5030 Mar 12 j 12:14	27°≈41'05	
•	-5037 Jul 11 j 18:55	15°R ≈		•	·		
opposition	-5037 Sep 14 j 11:45	13° ≈ 38'14	-2°24'20	conjunction	-5030 Mar 28 j 16:59	28°≈17'02	-2°17'45
min. Earth dist.	-5037 Sep 13 j 22:34		28.81837 AU	minimum elong	-5030 Mar 28 j 16:59	28°≈17'02	2°17'55
direct	-5037 Nov 30 j 20:55	12° ≈ 14'01		max. Earth dist.	-5030 Mar 29 j 00:47	28°≈17'46	30.82527 AU
evening set	-5036 Feb 26 j 21:19	14° ≈ 08'31		morning rise	-5030 Apr 13 j 22:56	28° ≈ 53'07	
	·				-5030 May 17 j 22:41	0° ∀	
conjunction	-5036 Mar 14 j 00:30	14° ≈ 44′23	-2°15'29	retrograde	-5030 Jul 13 j 08:53	0°) 50′28	
minimum elong	-5036 Mar 14 j 00:30	14° ≈ 44′23	2°15'42	C	-5030 Sep 08 j 23:47	30°R≈	
max. Earth dist.	-5036 Mar 14 j 15:50		30.81809 AU	opposition	-5030 Sep 29 j 15:40	29° ≈ 25'41	-2°27'09
	-5036 Mar 20 j 23:33	15° ≈		min. Earth dist.	-5030 Sep 29 j 09:24		28.82742 AU
morning rise	-5036 Mar 30 j 05:34	15° ≈ 20′28		direct	-5030 Dec 16 j 11:17	28° ≈ 01'03	
retrograde	-5036 Jun 29 j 02:38	17°≈18'33		evening set	-5029 Mar 15 j 02:37	29° ≈ 56'10	
opposition	-5036 Sep 15 j 22:40	15° ≈ 53'32	-2°25'24	Č	-5029 Mar 16 j 20:41	0°) €	
min. Earth dist.	-5036 Sep 15 j 09:53		28.82127 AU		.,		
	-5036 Oct 19 j 21:32	15°R≈		conjunction	-5029 Mar 31 j 07:42	0°) 32′08	-2°17'24
direct	-5036 Dec 02 j 09:36	14° ≈ 29'18		minimum elong	-5029 Mar 31 j 07:42	0°) 32′08	
	-5035 Jan 14 j 05:05	15° ≈		max. Earth dist.	-5029 Mar 31 j 15:03		30.82631 AU
evening set	-5035 Feb 28 j 11:48	16° ≈ 23'55		morning rise	-5029 Apr 16 j 13:41	1°) €08'12	
S	<i>y</i> . •			J	, J		

Planetary Pheno	omena of Neptune f	From -5400	through -4898	B (UT), Astrodien	st AG 18-Feb-2025	14:23,	page 30
Attention, astronom	nical year style is used: Th	e year -5029 i	in astronomical co	unting style is the year	r 5030 BCE in historical c	counting style.	
retrograde	-5029 Jul 15 j 22:29	3°) €05'24		minimum elong	-5022 Apr 16 j 14:02	16°) 16′19	2°09'12
opposition	-5029 Oct 02 j 02:14	1°) 40′39	-2°26'40	max. Earth dist.	-5022 Apr 16 j 14:37	16°) 16′22	30.86636 AU
min. Earth dist.	-5029 Oct 01 j 19:46	1°) 41′07	28.82888 AU	morning rise	-5022 May 02 j 20:28	16°) 52′21	
direct	-5029 Dec 18 j 23:52	0° ¥ 15'56		retrograde	-5022 Jul 31 j 09:58	18°) 48′36	
evening set	-5028 Mar 16 j 16:54	2°) 11′07		opposition	-5022 Oct 17 j 03:55	17°) €24'23	-2°17'01
8				min. Earth dist.	-5022 Oct 17 j 03:06		28.87133 AU
conjunction	-5028 Apr 01 j 22:05	2°){ 47'06	-2°16'50	direct	-5021 Jan 03 j 10:48	15°) 59′26	
minimum elong	-5028 Apr 01 j 22:05	2°) 47'06		evening set	-5021 Apr 02 j 22:09	17° H 55'14	
max. Earth dist.	-5028 Apr 02 j 04:04		30.82836 AU	evening sec	002111p1 02 j 22.09	1, ,(001.	
morning rise	-5028 Apr 18 j 04:15	3° ¥ 23′10	50.02050110	conjunction	-5021 Apr 19 j 04:48	18°) 31'16	-2°07'07
retrograde	-5028 Jul 17 j 09:08	5° ¥ 20′13		minimum elong	-5021 Apr 19 j 04:48	18°) €31'16	
opposition	-5028 Oct 03 j 12:54	3°) ₹55'30	-2°25'57	max. Earth dist.	-5021 Apr 19 j 04:12		30.87306 AU
min. Earth dist.	-5028 Oct 03 j 07:47		28.83171 AU	morning rise	-5021 May 05 j 11:10	19°) (37'18	30.07300710
direct	-5028 Dec 20 j 10:16	2°) € 30'43	20.03171710	retrograde	-5021 Aug 02 j 22:12	21° X 03'23	
evening set	-5027 Mar 19 j 07:10	4° H 25'58		opposition	-5021 Oct 19 j 14:37	19° H 39'14	2014/47
evening set	-3027 Wai 19 j 07.10	4 /(2336		min. Earth dist.	-5021 Oct 19 j 15:50		28.87764 AU
conjunction	-5027 Apr 04 j 12:45	5° ₩ 01'57	2016/04	direct	-5020 Jan 05 j 22:50	18° H 14'15	28.87704 AU
·		5° ₩ 01'57				20° X 10'05	
minimum elong	-5027 Apr 04 j 12:46			evening set	-5020 Apr 04 j 12:29	20° π 10'05	
max. Earth dist.	-5027 Apr 04 j 18:58		30.83195 AU		5020 4 20:10.21	2001/46/00	200456
morning rise	-5027 Apr 20 j 18:53	5°) (38'01		conjunction	-5020 Apr 20 j 19:21	20°\(\frac{1}{46}\)	
retrograde	-5027 Jul 19 j 20:09	7°) €34'55		minimum elong	-5020 Apr 20 j 19:22	20°) (46′08	
opposition	-5027 Oct 05 j 23:20	6° ¥ 10′15		max. Earth dist.	-5020 Apr 20 j 17:42		30.87908 AU
min. Earth dist.	-5027 Oct 05 j 18:23		28.83597 AU	morning rise	-5020 May 07 j 01:44	21° ∺ 22'09	
direct	-5027 Dec 22 j 22:51	4°) 45′26		retrograde	-5020 Aug 04 j 11:19	23° ¥ 18′05	
evening set	-5026 Mar 21 j 21:41	6°) (40'46		opposition	-5020 Oct 21 j 01:06	21° ¥ 53'58	
				min. Earth dist.	-5020 Oct 21 j 02:31		28.88314 AU
conjunction	-5026 Apr 07 j 03:20	7° ∺ 16'46		direct	-5019 Jan 07 j 12:35	20° ∺ 28'56	
minimum elong	-5026 Apr 07 j 03:21	7° ∺ 16'46		evening set	-5019 Apr 07 j 03:04	22°) 24'49	
max. Earth dist.	-5026 Apr 07 j 07:37	7° ∺ 17'09	30.83704 AU				
morning rise	-5026 Apr 23 j 09:41	7° 升 52'49		conjunction	-5019 Apr 23 j 10:00	23° ∺ 00′52	-2°02'34
retrograde	-5026 Jul 22 j 08:46	9° ∺ 49'35		minimum elong	-5019 Apr 23 j 10:00	23°) €00'52	2°02'37
opposition	-5026 Oct 08 j 09:54	8° ¥ 25′00	-2°23'51	max. Earth dist.	-5019 Apr 23 j 06:34	23°) €00'33	30.88433 AU
min. Earth dist.	-5026 Oct 08 j 05:41	8°) €25'18	28.84181 AU	morning rise	-5019 May 09 j 16:25	23°) € 36'53	
direct	-5026 Dec 25 j 09:03	7° ₩ 00'08		retrograde	-5019 Aug 06 j 22:17	25°) 32′38	
evening set	-5025 Mar 24 j 11:58	8° ¥ 55'34		opposition	-5019 Oct 23 j 11:32	24°) €08'34	-2°09'43
C	J			min. Earth dist.	-5019 Oct 23 j 14:46	24°) €08'20	28.88823 AU
conjunction	-5025 Apr 09 j 17:59	9°) 31′34	-2°13'54	direct	-5018 Jan 09 j 23:45	22°) 43′28	
minimum elong	-5025 Apr 09 j 17:59	9°) €31'34		evening set	-5018 Apr 09 j 17:29	24°) 39′24	
max. Earth dist.	-5025 Apr 09 j 22:35		30.84351 AU	- · · · · · · · · · · · · · · · · · · ·	**************************************	_ , , , , , , , , , , , , , , , , , , ,	
morning rise	-5025 Apr 26 j 00:11	10°) €07'37	30.0.001110	conjunction	-5018 Apr 26 j 00:41	25° ¥ 15'27	-2°00'01
retrograde	-5025 Jul 24 j 19:33	12°) (04'16		minimum elong	-5018 Apr 26 j 00:42	25° H 15'27	
opposition	-5025 Oct 10 j 20:25	10°) (39'46	-2°22'28	max. Earth dist.	-5018 Apr 25 j 21:00		30.88941 AU
min. Earth dist.	-5025 Oct 10 j 20:25		28.84874 AU	morning rise	-5018 May 12 j 06:58	25° H 51'27	30.00741 AC
direct	-5025 Dec 27 j 20:36	9°) 14'53	20.04074 AU	retrograde	-5018 Aug 09 j 09:23	27° H 47'00	
evening set	-5024 Mar 26 j 02:28	11° X 10'25		opposition	-5018 Oct 25 j 21:56	26° H 23'00	2906!54
evening set	-3024 Mai 20 j 02.28	11 /(1023					
aaminus -ti	5024 A 11:00:22	110W 46125	2012/21	min. Earth dist.	-5018 Oct 26 j 01:40	26° 11 22'44 24° 11 57'50	28.89319 AU
conjunction	-5024 Apr 11 j 08:32	11°) 46'25		direct	-5017 Jan 12 j 12:51		
minimum elong	-5024 Apr 11 j 08:32	11° ¥ 46′25		evening set	-5017 Apr 12 j 07:51	26° 升 53'47	
max. Earth dist.	-5024 Apr 11 j 11:12		30.85101 AU		5015 4 50:14.50	250)/20151	1055110
morning rise	-5024 Apr 27 j 14:57	12°) € 22'29		conjunction	-5017 Apr 28 j 14:58	27° ₩ 29'51	
retrograde	-5024 Jul 26 j 08:48	14°) 18′59		minimum elong	-5017 Apr 28 j 14:59	27° ₩ 29'51	
opposition	-5024 Oct 12 j 06:50	12°) 54′36		max. Earth dist.	-5017 Apr 28 j 09:17		30.89459 AU
min. Earth dist.	-5024 Oct 12 j 04:00		28.85651 AU	morning rise	-5017 May 14 j 21:20	28°) €05'50	
direct	-5024 Dec 29 j 09:12	11° ¥ 29'42			-5017 Aug 03 j 10:21	0°Υ	
evening set	-5023 Mar 28 j 16:52	13° ∺ 25'19		retrograde	-5017 Aug 11 j 21:09	0° Υ 01'13	
					-5017 Aug 20 j 07:30	30° ₹ ₩	
conjunction	-5023 Apr 13 j 23:15	14° ∺ 01′21		opposition	-5017 Oct 28 j 08:18	28° ∺ 37'15	
minimum elong	-5023 Apr 13 j 23:16	14° ₩ 01'21		min. Earth dist.	-5017 Oct 28 j 12:51	28°) ₹36′56	28.89871 AU
max. Earth dist.	-5023 Apr 14 j 01:43	14°) €01'35	30.85882 AU	direct	-5016 Jan 14 j 23:18	27° ∺ 12'01	
morning rise	-5023 Apr 30 j 05:36	14°) 37′24		evening set	-5016 Apr 13 j 22:00	29° ₩ 08'02	
retrograde	-5023 Jul 28 j 20:10	16°) €33'47					
opposition	-5023 Oct 14 j 17:28	15° ¥ 09′29	-2°19'03	conjunction	-5016 Apr 30 j 05:22	29°) 44′05	-1°54'24
min. Earth dist.	-5023 Oct 14 j 16:29		28.86419 AU	minimum elong	-5016 Apr 30 j 05:23	29°) 44′05	
direct	-5023 Dec 31 j 21:36	13°) 44′34		max. Earth dist.	-5016 Apr 29 j 23:58		30.90053 AU
evening set	-5022 Mar 31 j 07:31	15°)(40'17			-5016 May 07 j 08:46	0°Υ	
<i>5</i>	, - ,			morning rise	-5016 May 16 j 11:30	0° Υ 20'03	
conjunction	-5022 Apr 16 j 14:01	16° ¥ 16'19	-2°09'07	retrograde	-5016 Aug 13 j 06:46	2° Υ 15'16	
		/(.01/			22.2.2.0g 15 j 00.40	13 10	

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 31							
Attention, astronom	ical year style is used: Th	e year -5016 i	in astronomical cou	inting style is the year	5017 BCE in historical c	ounting style.	
opposition	-5016 Oct 29 j 18:36	0° Y 51′22	-2°00'42	conjunction	-5009 May 17 j 08:20	15° Y 22'53	-1°29'32
min. Earth dist.	-5016 Oct 30 j 00:07	0° Ƴ 50'58	28.90508 AU	minimum elong	-5009 May 17 j 08:20	15° Y 22'53	1°29'29
	-5016 Dec 01 j 01:23	30° ₹		max. Earth dist.	-5009 May 16 j 20:42	15° Y 21'48	30.97024 AU
direct	-5015 Jan 16 j 11:14	29° ¥ 26′05		morning rise	-5009 Jun 02 j 13:31	15° Y 58'45	
	-5015 Mar 03 j 07:49	$0^{\circ}\Upsilon$		retrograde	-5009 Aug 29 j 17:44	17° Y ′53'00	
evening set	-5015 Apr 16 j 12:14	1° Y ′22'08		opposition	-5009 Nov 14 j 19:19	16° Ƴ 29'47	-1°33'33
8	r .,			min. Earth dist.	-5009 Nov 15 j 06:09		28.97589 AU
conjunction	-5015 May 02 j 19:33	1° Y ′58'11	-1°51'20	direct	-5008 Feb 02 j 03:22	15° Υ '04'32	20.5 7005 110
minimum elong	-5015 May 02 j 19:33	1° Υ 58'11	1°51'20	evening set	-5008 May 02 j 15:05	17° Υ '01'00	
max. Earth dist.	-5015 May 02 j 12:16		30.90763 AU	evening set	5000 May 02 j 15.05	17 10100	
morning rise	-5015 May 02 j 12:10	2° Υ 34'09	30.90703 AU	conjunction	-5008 May 18 j 22:17	17° Ƴ 37'02	1025124
-		4° Υ 29'13				17° Υ 37'02	
retrograde	-5015 Aug 15 j 18:41		1057120	minimum elong	-5008 May 18 j 22:18		
opposition	-5015 Nov 01 j 04:54	3°Υ05'22		max. Earth dist.	-5008 May 18 j 08:27		30.97976 AU
min. Earth dist.	-5015 Nov 01 j 10:29		28.91278 AU	morning rise	-5008 Jun 04 j 03:24	18° Y 12'54	
direct	-5014 Jan 18 j 23:41	1° Y 40'03		retrograde	-5008 Aug 31 j 05:28	20° Y ′07′00	
evening set	-5014 Apr 19 j 02:21	3° Y 36'10		opposition	-5008 Nov 16 j 05:43	18° Y 43′50	
				min. Earth dist.	-5008 Nov 16 j 17:36		28.98490 AU
conjunction	-5014 May 05 j 09:50	4° Ƴ 12'13	-1°48'05	direct	-5007 Feb 03 j 14:17	17° Y 18′32	
minimum elong	-5014 May 05 j 09:51	4° Υ 12'13	1°48'05	evening set	-5007 May 05 j 05:03	19° Y 15′02	
max. Earth dist.	-5014 May 05 j 02:48	4° Ƴ 11'34	30.91599 AU				
morning rise	-5014 May 21 j 15:48	4° Ƴ 48'10		conjunction	-5007 May 21 j 12:22	19° Ƴ 51'04	-1°21'09
retrograde	-5014 Aug 18 j 04:54	6° Ƴ 43'05		minimum elong	-5007 May 21 j 12:22	19° Ƴ 51'04	1°21'05
opposition	-5014 Nov 03 j 15:17	5° Ƴ 19'20	-1°53'47	max. Earth dist.	-5007 May 20 j 22:23	19° Ƴ 49'46	30.98825 AU
min. Earth dist.	-5014 Nov 03 j 22:18	5° ℃ 18'50	28.92180 AU	morning rise	-5007 Jun 06 j 17:06	20° Y ′26′54	
direct	-5013 Jan 21 j 11:31	3° Y ′54'01	20.92100110	retrograde	-5007 Sep 02 j 14:27	22° Y '20'50	
evening set	-5013 Apr 21 j 16:31	5° Υ 50'12		opposition	-5007 Nov 18 j 16:15	20° Υ 57'43	1°24'27
evening set	-3013 Apr 21 j 10.31	3 30 12		min. Earth dist.	-5007 Nov 19 j 05:26		28.99276 AU
:	5012 M 07 : 22.56	6° Y 26'14	1044141	direct		20 1 30 47 19° Υ 32'23	28.99276 AU
conjunction	-5013 May 07 j 23:56				-5006 Feb 06 j 03:15	19 1 32 23 21° Υ 28'53	
minimum elong	-5013 May 07 j 23:57	6° Y 26'14		evening set	-5006 May 07 j 19:05		20.00502 111
max. Earth dist.	-5013 May 07 j 15:32		30.92587 AU	max. Earth dist.	-5006 May 23 j 09:56	22°° y ′03'23	30.99582 AU
morning rise	-5013 May 24 j 05:55	7° Y ′02'11					
retrograde	-5013 Aug 20 j 17:52	8° Ƴ 56'57		conjunction	-5006 May 24 j 02:05	22° Y ′04'54	
opposition	-5013 Nov 06 j 01:34	7° Ƴ 33'18	-1°50'03	minimum elong	-5006 May 24 j 02:05	22° Y ′04'54	1°16'41
min. Earth dist.	-5013 Nov 06 j 08:12	7° Ƴ 32'50	28.93221 AU	morning rise	-5006 Jun 09 j 06:43	22° Y 40'42	
direct	-5012 Jan 24 j 00:13	6° Ƴ 08'00		retrograde	-5006 Sep 05 j 01:16	24° Y 34'27	
evening set	-5012 Apr 23 j 06:27	8° Ƴ 04'15		opposition	-5006 Nov 21 j 02:36	23° Y 11'23	-1°19'43
				min. Earth dist.	-5006 Nov 21 j 16:06	23° Y 10'26	29.00002 AU
conjunction	-5012 May 09 j 13:57	8° Y '40'18	-1°41'08	direct	-5005 Feb 08 j 15:11	21° Y 45'59	
minimum elong	-5012 May 09 j 13:58	8° Y '40'18	1°41'06	evening set	-5005 May 10 j 08:48	23° Y '42'29	
max. Earth dist.	-5012 May 09 j 05:07		30.93679 AU	Ü	, ,		
morning rise	-5012 May 25 j 19:43	9° Y 16'14		conjunction	-5005 May 26 j 15:49	24° Ƴ 18′29	-1°12'18
retrograde	-5012 Aug 22 j 05:44	11° Y 10'53		minimum elong	-5005 May 26 j 15:49	24° Υ 18'29	
opposition	-5012 Nov 07 j 12:01	9° Υ 47'21	-1°46'10	max. Earth dist.	-5005 May 25 j 23:48		31.00291 AU
min. Earth dist.	-5012 Nov 07 j 20:23		28.94347 AU	morning rise	-5005 Jun 11 j 20:01	24°Υ′54'15	31.002)1710
direct	-5011 Jan 25 j 12:32	8° Υ 22'04	20.94347 AU	retrograde	-5005 Sep 07 j 10:41	26°47'51	
	·	10° Υ 18'24		-		25° Y 24'48	1014152
evening set	-5011 Apr 25 j 20:36	10 1 18 24		opposition	-5005 Nov 23 j 13:07		
a a min 4:	5011 M 10 104 07	100005405	1027125	min. Earth dist.	-5005 Nov 24 j 04:13	25°°\723'44 23°\759'21	29.00703 AU
conjunction	-5011 May 12 j 04:07	10° Y 54'27		direct	-5004 Feb 11 j 02:37		
minimum elong	-5011 May 12 j 04:07	10° Y ′54′27		evening set	-5004 May 11 j 22:22	25° Y 55'50	
max. Earth dist.	-5011 May 11 j 18:21		30.94836 AU	max. Earth dist.	-5004 May 27 j 11:42	26° 'Y'3 0'11	31.01011 AU
morning rise	-5011 May 28 j 09:46	11° Y '30'21					
retrograde	-5011 Aug 24 j 18:32	13° Y ′24'53		conjunction	-5004 May 28 j 05:07	26° Ƴ 31'48	-1°07'43
opposition	-5011 Nov 09 j 22:15	12° Ƴ 01′28		minimum elong	-5004 May 28 j 05:08	26° Ƴ 31'48	1°07'36
min. Earth dist.	-5011 Nov 10 j 06:43	12° Y ′00′52	28.95489 AU	morning rise	-5004 Jun 13 j 09:12	27° Y 07'33	
direct	-5010 Jan 28 j 02:36	10° Ƴ 36′12		retrograde	-5004 Sep 08 j 21:52	29° Ƴ 00'58	
evening set	-5010 Apr 28 j 10:54	12° Y ′32'36		opposition	-5004 Nov 24 j 23:25	27° Y '37'57	-1°09'55
-	- •			min. Earth dist.	-5004 Nov 25 j 14:09		29.01433 AU
conjunction	-5010 May 14 j 18:17	13° Y ′08'39	-1°33'33	direct	-5003 Feb 12 j 15:48	26° Y °12′26	
minimum elong	-5010 May 14 j 18:18	13° Υ 08'39		evening set	-5003 May 14 j 11:56	28°Υ08'56	
max. Earth dist.	-5010 May 14 j 07:00		30.95963 AU		11 J 11.00		
morning rise	-5010 May 30 j 23:46	13° Υ 44'33	50.75705 AU	conjunction	-5003 May 30 j 18:32	28° Ƴ 44'53	-1°03'02
•	-5010 May 30 j 25.46	15 Υ 44 33		minimum elong	-5003 May 30 j 18:33	28° Y 44'53	
retrograde			1027151	_			31.01767 AU
opposition	-5010 Nov 12 j 08:49	14° Y 15'38		max. Earth dist.	-5003 May 30 j 00:54		31.01/0/ AU
min. Earth dist.	-5010 Nov 12 j 19:01		28.96591 AU	morning rise	-5003 Jun 15 j 22:12	29° Y 20'36	
direct	-5009 Jan 30 j 13:47	12°Υ50'23			-5003 Jul 04 j 22:59	0°8	
evening set	-5009 May 01 j 00:54	14° Ƴ 46'50		retrograde	-5003 Sep 11 j 08:04	1° 8 13'52	
					-5003 Nov 22 j 00:02	30° ₹ Υ	

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -5003 in astronomical counting style is the year 5004 BCE in historical counting style. 29°**Y**'50'52 -1°04'52 -5003 Nov 27 i 09:49 minimum elong -4996 Jun 15 i 13:29 14°**8**14'25 0°27'57 opposition min. Earth dist. -5003 Nov 28 i 02:02 29°Υ49'44 29.02234 AU max. Earth dist. -4996 Jun 14 j 16:08 14°**8**12'26 31.09261 AU -5002 Feb 15 j 04:23 28°Y25'20 -4996 Jul 01 j 14:17 14°**8**49'55 direct morning rise -4996 Jul 06 j 06:43 15°8 0°8 -5002 May 06 j 18:11 0°**8**21'50 -4996 Sep 26 j 10:57 -5002 May 17 j 01:26 16°842'29 evening set retrograde -4996 Dec 12 j 11:24 opposition 15°**8**20'06 -0°27'20 -5002 Jun 02 j 07:48 -4996 Dec 13 j 07:40 conjunction 0°**8**57'45 -0°58'16 min. Earth dist. 15°**8**18'41 29.09773 AU -5002 Jun 02 j 07:48 minimum elong 0°**8**57'45 0°58'09 -4996 Dec 24 j 13:24 15°R₩ max. Earth dist. -5002 Jun 01 j 13:36 0°**႘**56′04 31.02630 AU direct -4995 Mar 02 j 17:11 13°**8**54'42 morning rise -5002 Jun 18 j 11:09 1°833'27 -4995 May 07 j 11:58 15°8 retrograde -5002 Sep 13 j 19:34 3°**8**26'35 evening set -4995 Jun 01 j 22:12 15°**8**51'26 -5002 Nov 29 j 20:14 2°803'38 -0°59'44 -4995 Jun 17 j 03:15 opposition max. Earth dist. 16°**8**25'04 31.10197 AU 2°802'32 29.03144 AU min. Earth dist. -5002 Nov 30 j 11:57 direct -5001 Feb 17 j 18:30 0°838'05 conjunction -4995 Jun 18 j 02:11 16°827'12 -0°22'56 evening set -5001 May 19 j 14:44 2°834'36 minimum elong -4995 Jun 18 j 02:11 16°**8**27'12 0°22'46 morning rise -4995 Jul 04 j 02:39 17°802'41 conjunction -5001 Jun 04 j 20:46 3°810'30 -0°53'25 retrograde -4995 Sep 28 j 21:38 18°**8**55'09 minimum elong -5001 Jun 04 j 20:47 3°810'30 0°53'18 opposition -4995 Dec 14 j 21:57 17°832'49 -0°21'45 max. Earth dist. -5001 Jun 04 j 01:52 3°808'45 31.03605 AU min. Earth dist. -4995 Dec 15 j 17:57 17°**8**31'25 29.10646 AU 3°**8**46'10 morning rise -5001 Jun 20 j 23:46 direct -4994 Mar 05 j 06:10 16°807'24 5°**8**39'11 retrograde -5001 Sep 16 j 06:30 evening set -4994 Jun 04 j 11:15 18°804'08 opposition -5001 Dec 02 i 06:43 4°**8**16'18 -0°54'30 min. Earth dist. -5001 Dec 02 j 23:27 4°815'08 29.04187 AU conjunction -4994 Jun 20 i 14:53 18°839'53 -0°17'43 direct -5000 Feb 20 i 05:42 2°**8**50'46 minimum elong -4994 Jun 20 j 14:53 18°839'53 0°17'31 evening set -5000 May 21 j 03:59 4°847'19 max. Earth dist. -4994 Jun 19 i 15:41 18°**8**37'44 31.11014 AU -4994 Jul 06 j 14:43 19°**8**15'19 morning rise -5000 Jun 06 j 09:52 5°**8**23'12 -0°48'30 -4994 Oct 01 j 07:30 21°807'42 conjunction retrograde -5000 Jun 06 j 09:52 5°**8**23'12 0°48'21 -4994 Dec 17 j 08:47 19°845'23 -0°16'09 opposition minimum elong -5000 Jun 05 j 15:15 5°**8**21'29 31.04710 AU -4994 Dec 18 j 06:19 19°**8**43'53 29.11424 AU max. Earth dist. min. Earth dist. 18°**8**19'58 -5000 Jun 22 j 12:26 -4993 Mar 07 j 18:24 morning rise 5°**8**58'50 direct -5000 Sep 17 j 17:45 -4993 Jun 06 j 24:00 7°**8**51'44 evening set 20°**8**16'41 retrograde -5000 Dec 03 j 17:01 6°**8**28'58 -0°49'12 -4993 Jun 22 j 03:19 max. Earth dist. 20°850'10 31.11761 AU opposition 6°**8**27'47 29.05322 AU min. Earth dist. -5000 Dec 04 j 09:56 -4999 Feb 21 j 19:26 5°**8**03'28 -4993 Jun 23 j 03:10 20°**8**52'23 -0°12'29 direct conjunction -4999 May 23 j 17:23 -4993 Jun 23 j 03:09 20°**8**52'23 0°12'17 evening set 7°**8**00'04 minimum elong -4993 Jun 22 j 22:52 20°**8**52'00 behind sun begin 7°**8**35'56 -0°43'29 -4999 Jun 08 j 22:51 -4993 Jun 23 j 07:27 20°**8**52'46 conjunction behind sun end minimum elong -4999 Jun 08 j 22:51 7°**8**35'56 0°43'21 morning rise -4993 Jul 09 j 02:34 21°**8**27'46 max. Earth dist. -4999 Jun 08 j 02:43 7°**8**34'04 31.05884 AU retrograde -4993 Oct 03 j 18:14 23°**8**20'03 morning rise -4999 Jun 25 j 01:08 8°811'32 opposition -4993 Dec 19 j 19:24 21°**8**57'45 -0°10'32 retrograde -4999 Sep 20 j 05:25 10°804'21 min. Earth dist. -4993 Dec 20 j 16:37 21°**8**56'17 29.12134 AU -4999 Dec 06 j 03:29 8°841'41 -0°43'49 -4992 Mar 09 j 08:09 20°**8**32'19 opposition direct min. Earth dist. -4999 Dec 06 j 20:57 8°840'28 29.06516 AU -4992 Jun 08 j 12:45 22°829'01 evening set -4998 Feb 24 j 06:32 7°816'14 direct -4998 May 26 j 06:35 9°812'52 -4992 Jun 24 j 15:25 23°**8**04'40 -0°07'14 evening set conjunction -4992 Jun 24 i 15:26 minimum elong 23°**8**04'40 0°07'02 9°848'43 -0°38'26 conjunction -4998 Jun 11 j 11:50 behind sun begin -4992 Jun 24 i 09:23 23°**8**04'08 minimum elong -4998 Jun 11 j 11:50 9°848'43 0°38'16 behind sun end -4992 Jun 24 i 21:28 23°**8**05'13 9°846'54 31.07072 AU max. Earth dist. -4998 Jun 10 j 16:08 max. Earth dist. -4992 Jun 23 j 14:51 23°**8**02'24 31.12454 AU -4998 Jun 27 i 13:32 10°**8**24'17 morning rise -4992 Jul 10 i 14:19 23°**8**40'01 morning rise -4998 Sep 22 j 14:30 12°817'02 -4992 Oct 05 j 04:52 25°**8**32'12 retrograde retrograde -4998 Dec 08 j 14:06 10°854'29 -0°38'22 -4992 Dec 21 j 05:56 24°809'55 -0°04'55 opposition opposition -4998 Dec 09 j 08:37 10°**8**53'11 29.07679 AU min. Earth dist. -4992 Dec 22 j 04:15 24°**8**08'22 29.12835 AU min. Earth dist. 22°**8**44'26 direct -4997 Feb 26 j 19:16 9°829'03 direct -4991 Mar 11 j 19:42 evening set -4997 May 28 j 19:55 11°**8**25'44 evening set -4991 Jun 11 j 01:19 24°841'07 max. Earth dist. -4997 Jun 13 j 03:04 11°**8**59'34 31.08213 AU max. Earth dist. -4991 Jun 26 j 03:26 25°**8**14'30 31.13165 AU -4997 Jun 14 j 00:38 12°**8**01'34 -0°33'18 -4991 Jun 27 j 03:36 25°**8**16'44 -0°01'58 conjunction conjunction -4997 Jun 14 j 00:39 12°**8**01'34 0°33'08 -4991 Jun 27 j 03:35 25°**8**16'44 0°01'46 minimum elong minimum elong -4997 Jun 30 j 02:03 12°**8**37'06 -4991 Jun 26 j 21:03 25°**8**16'09 morning rise behind sun begin -4997 Sep 25 j 01:32 14°**8**29'46 -4991 Jun 27 j 10:07 25°**8**17'19 retrograde behind sun end -4997 Dec 11 j 00:39 13°**8**07'18 -0°32'52 morning rise -4991 Jul 13 j 01:52 25°**8**52'02 opposition min. Earth dist. -4997 Dec 11 j 19:15 13°**8**05'59 29.08785 AU retrograde -4991 Oct 07 j 15:48 27°**8**44'06 direct -4996 Feb 29 j 06:23 11°**8**41'53 asc. node -4991 Nov 07 j 13:52 27°**8**28'10 evening set -4996 May 30 j 08:58 13°**8**38'36 opposition -4991 Dec 23 j 16:38 26°**8**21'50 0°00'43 min. Earth dist. -4991 Dec 24 j 14:52 26°820'17 29.13560 AU -4996 Jun 15 j 13:29 14°**8**14'25 -0°28'08 -4990 Mar 14 j 10:39 24°**8**56'21 conjunction direct

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 33 Attention, astronomical year style is used: The year -4990 in astronomical counting style is the year 4991 BCE in historical counting style.

Attention, astronomical year style is used: The year -4990 in astronomical counting style is the year 4991 BCE in historical counting style.							
evening set	-4990 Jun 13 j 13:47	26° 8 53'00		min. Earth dist.	-4984 Jan 07 j 08:57	9° Ⅱ 29'41	29.19748 AU
				direct	-4984 Mar 27 j 08:59	8° I I06'00	
conjunction	-4990 Jun 29 j 15:22	27° 8 28'35	0°03'25	evening set	-4984 Jun 26 j 14:40	10° Ⅱ 02'40	
minimum elong	-4990 Jun 29 j 15:22	27° 8 28'35	0°03'38	max. Earth dist.	-4984 Jul 11 j 11:43	10° Ⅱ 35'39	31.20228 AU
behind sun begin	-4990 Jun 29 j 08:54	27° 8 28'00					
behind sun end	-4990 Jun 29 j 21:51	27° 8 29'09		conjunction	-4984 Jul 12 j 12:48	10° Ⅱ 37'59	0°34'31
max. Earth dist.	-4990 Jun 28 j 14:15	27° 8 26'15	31.13926 AU	minimum elong	-4984 Jul 12 j 12:48	10° Ⅱ 37'59	0°34'46
morning rise	-4990 Jul 15 j 13:11	28° 8 03'50		morning rise	-4984 Jul 28 j 06:56	11° Ⅱ 12'59	
retrograde	-4990 Oct 10 j 02:39	29° 8 55'49		retrograde	-4984 Oct 22 j 13:12	13° Ⅱ 04'45	
opposition	-4990 Dec 26 j 03:21	28° 8 33'34	0°06'20	opposition	-4983 Jan 07 j 20:28	11° Ⅱ 42'52	0°39'32
min. Earth dist.	-4990 Dec 27 j 01:30	28° 8 32'02	29.14382 AU	min. Earth dist.	-4983 Jan 08 j 19:25	11° Ⅱ 41'17	29.20755 AU
direct	-4989 Mar 16 j 22:40	27° 8 08'04		direct	-4983 Mar 29 j 21:34	10° Ⅱ 17'36	
evening set	-4989 Jun 16 j 02:01	29° 8 04'43		evening set	-4983 Jun 29 j 02:47	12° Ⅱ 14'17	
max. Earth dist.	-4989 Jul 01 j 03:09	29° 8 38'00	31.14801 AU	max. Earth dist.	-4983 Jul 13 j 22:28	12° Ⅱ 47'09	31.21169 AU
conjunction	-4989 Jul 02 j 03:13	29° 8 40'15	0°08'39	conjunction	-4983 Jul 15 j 00:14	12° Ⅱ 49'33	0°39'34
minimum elong	-4989 Jul 02 j 03:13	29° 8 40'14	0°08'51	minimum elong	-4983 Jul 15 j 00:14	12° Ⅱ 49'33	0°39'49
behind sun begin	-4989 Jul 01 j 21:36	29° 8 39'45		morning rise	-4983 Jul 30 j 17:42	13° Ⅱ 24'30	
behind sun end	-4989 Jul 02 j 08:49	29° 8 40'44		retrograde	-4983 Oct 25 j 00:10	15° Ⅱ 16′15	
	-4989 Jul 10 j 23:42	$\Pi^{\circ}0$		opposition	-4982 Jan 10 j 07:41	13° Ⅱ 54'24	0°44'54
morning rise	-4989 Jul 18 j 00:18	0° Ⅱ 15′27		min. Earth dist.	-4982 Jan 11 j 07:34	13° Ⅲ 52'45	29.21650 AU
retrograde	-4989 Oct 12 j 11:12	2° II 07'22		direct	-4982 Apr 01 j 09:02	12° Ⅲ 29′10	
opposition	-4989 Dec 28 j 14:03	0° Ⅱ 45'10	0°11'56	evening set	-4982 Jul 01 j 14:37	14° Ⅱ 25'50	
min. Earth dist.	-4989 Dec 29 j 12:37	0° Ⅱ 43'35	29.15315 AU	max. Earth dist.	-4982 Jul 16 j 10:10	14° Ⅱ 58'41	31.21996 AU
	-4988 Jan 26 j 03:09	30° ₹ 8			·		
direct	-4988 Mar 18 j 11:33	29° 8 19'40		conjunction	-4982 Jul 17 j 11:29	15° II 01'03	0°44'34
	-4988 May 08 j 08:31	$\Pi^{\circ}0$		minimum elong	-4982 Jul 17 j 11:29	15° 耳 01′03	0°44'49
evening set	-4988 Jun 17 j 14:16	1° Ⅱ 16′18		morning rise	-4982 Aug 02 j 04:14	15° Ⅱ 35'56	
C	,			retrograde	-4982 Oct 27 j 10:51	17° Ⅲ 27'40	
conjunction	-4988 Jul 03 j 14:46	1° Ⅱ 51'48	0°13'52	opposition	-4981 Jan 12 j 18:54	16° Ⅱ 05'51	0°50'12
minimum elong	-4988 Jul 03 j 14:46	1° Ⅱ 51'48		min. Earth dist.	-4981 Jan 13 j 18:49		29.22410 AU
behind sun begin	-4988 Jul 03 j 11:37	1° Ⅱ 51'31		direct	-4981 Apr 03 j 23:30	14° Ⅱ 40′38	
behind sun end	-4988 Jul 03 j 17:55	1° Ⅱ 52'05		evening set	-4981 Jul 04 j 02:31	16° Ⅱ 37'17	
max. Earth dist.	-4988 Jul 02 j 13:36	1° Ⅱ 49'28	31.15801 AU	C	,		
morning rise	-4988 Jul 19 j 11:27	2° Ⅱ 26'58		conjunction	-4981 Jul 19 j 22:36	17° Ⅱ 12'27	0°49'30
retrograde	-4988 Oct 13 j 22:00	4° Ⅱ 18'49		minimum elong	-4981 Jul 19 j 22:36	17° Ⅱ 12'27	
opposition	-4988 Dec 30 j 00:45	2° Ⅱ 56'40	0°17'31	max. Earth dist.	-4981 Jul 18 j 20:10	17° Ⅱ 09'59	31.22700 AU
min. Earth dist.	-4988 Dec 30 j 22:38		29.16370 AU	morning rise	-4981 Aug 04 j 14:48	17° Ⅱ 47'17	
direct	-4987 Mar 20 j 23:04	1° Ⅱ 31'13		retrograde	-4981 Oct 29 j 21:59	19° Ⅱ 39'00	
evening set	-4987 Jun 20 j 02:24	3° Ⅲ 27'52		opposition	-4980 Jan 15 j 05:58	18° Ⅱ 17'11	0°55'26
max. Earth dist.	-4987 Jul 05 j 02:19		31.16893 AU	min. Earth dist.	-4980 Jan 16 j 05:56		29.23079 AU
				direct	-4980 Apr 05 j 11:19	16° Ⅱ 51'58	
conjunction	-4987 Jul 06 j 02:28	4° Ⅱ 03'19	0°19'04	evening set	-4980 Jul 05 j 14:05	18° Ⅱ 48'36	
minimum elong	-4987 Jul 06 j 02:28	4° Ⅱ 03'19	0°19'18	max. Earth dist.	-4980 Jul 20 j 08:11		31.23318 AU
morning rise	-4987 Jul 21 j 22:23	4° Ⅱ 38'26					
retrograde	-4987 Oct 16 j 07:04	6° Ⅱ 30'16		conjunction	-4980 Jul 21 j 09:41	19° Ⅱ 23'43	0°54'21
opposition	-4986 Jan 01 j 11:36	5° Ⅱ 08'11	0°23'05	minimum elong	-4980 Jul 21 j 09:41	19° Ⅲ 23'43	0°54'37
min. Earth dist.	-4986 Jan 02 j 10:35		29.17493 AU	morning rise	-4980 Aug 06 j 01:08	19° Ⅱ 58'30	
direct	-4986 Mar 23 j 10:04	3° Ⅱ 42'47		retrograde	-4980 Oct 31 j 06:50	21° Ⅱ 50'11	
evening set	-4986 Jun 22 j 14:38	5° Ⅱ 39'27		opposition	-4979 Jan 16 j 17:13	20° Ⅱ 28'23	1°00'34
	== ,			min. Earth dist.	-4979 Jan 17 j 17:46		29.23660 AU
conjunction	-4986 Jul 08 j 13:58	6° Ⅱ 14'51	0°24'15	direct	-4979 Apr 08 j 00:48	19° Ⅱ 03'10	
minimum elong	-4986 Jul 08 j 13:57	6° Ⅱ 14'51	0°24'30	evening set	-4979 Jul 08 j 01:42	20° Ⅲ 59'45	
max. Earth dist.	-4986 Jul 07 j 13:00		31.18040 AU	evening see	1979 tur 00 j 01: 12	20 220 .0	
morning rise	-4986 Jul 24 j 09:24	6° Ⅱ 49'56	31.100 10 110	conjunction	-4979 Jul 23 j 20:26	21° Ⅱ 34'49	0°59'07
retrograde	-4986 Oct 18 j 17:09	8° ∏ 41'43		minimum elong	-4979 Jul 23 j 20:26		0°59'22
opposition	-4985 Jan 03 j 22:29	7° Ⅱ 19'44	0°28'37	max. Earth dist.	-4979 Jul 22 j 17:55		31.23880 AU
min. Earth dist.	-4985 Jan 04 j 20:37		29.18642 AU	morning rise	-4979 Aug 08 j 11:22	22° I 109'33	21.22000110
direct	-4985 Mar 25 j 22:14	5° I 54'23	27.10072 110	retrograde	-4979 Nov 02 j 17:34	24° I [01'12	
evening set	-4985 Jun 25 j 02:34	7° П 51'03		opposition	-4978 Jan 19 j 04:22	22° I 39'24	1°05'37
max. Earth dist.	-4985 Jul 10 j 00:43		31.19164 AU	min. Earth dist.	-4978 Jan 20 j 04:07		29.24225 AU
max. Darui dist.	1705 Jul 10 J 00.43	0 11240/	51.1710 1 AU	direct	-4978 Apr 10 j 13:08	22 II 37 40 21° II 14'11	27.2-1223 AU
conjunction	-4985 Jul 11 j 01:22	8° Ⅱ 26′25	0°29'24	evening set	-4978 Jul 10 j 13:08	23° I 10'44	
minimum elong	-4985 Jul 11 j 01:22	8°П26'25	0°29'39	max. Earth dist.	-4978 Jul 25 j 05:58		31.24445 AU
morning rise	-4985 Jul 11 j 01:22 -4985 Jul 26 j 20:04	8° П 26'23	0 49 39	max. Earth uist.	7710 Jul 23 J US.38	23 11 43 24	51.2 114 5 AU
retrograde	-4985 Oct 21 j 02:41	9 I I0127 10° I I53'14		conjunction	-4978 Jul 26 j 07:13	23° ∏ 45'46	1°03'47
opposition	-4984 Jan 06 j 09:34	9° П 31'18	0°34'06	minimum elong	-4978 Jul 26 j 07:12	23° I 45'46	1°04'04
оррозион	1707 Jan 00 J 07.34	/ 11 .0110	3 37 00	mmmum ciong	17/03ul 20]0/.12	23 117340	1 0101

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4978 in astronomical counting style is the year 4979 BCE in historical counting style. opposition -4978 Aug 10 j 21:19 24°**Ⅲ**20′27 -4971 Feb 03 i 12:21 7°555'33 1°37'52 morning rise 7°554'03 29.29572 AU -4978 Nov 05 j 02:28 26°**Ⅲ**12'06 -4971 Feb 04 j 10:30 retrograde min. Earth dist. -4977 Jan 21 j 15:47 24°II50'18 1°10'34 -4971 Apr 25 j 21:28 6°930'44 direct opposition -4971 Jul 25 j 18:08 -4977 Jan 22 j 16:13 24°**II**48'37 29.24822 AU min. Earth dist. 8°9327'11 evening set -4977 Apr 13 j 00:52 -4971 Aug 09 j 08:38 direct 23°**Ⅲ**25′06 max. Earth dist. 8°959'43 31.29786 AU -4977 Jul 13 j 00:12 evening set 25°**Ⅲ**21'37 conjunction -4971 Aug 10 j 07:26 9°**©**01'51 1°33'35 -4977 Jul 28 j 17:35 conjunction 25°**I**I56'34 1°08'22 minimum elong -4971 Aug 10 j 07:26 9°901'51 1°33'51 minimum elong -4977 Jul 28 j 17:35 25°**Ⅱ**56'34 1°08'38 morning rise -4971 Aug 25 j 17:01 9°936'14 max. Earth dist. -4977 Jul 27 j 16:05 25°**Д**54'11 31.25076 AU retrograde -4971 Nov 20 j 02:25 11°528'12 morning rise -4977 Aug 13 j 07:11 26°**Ⅲ**31'13 opposition -4970 Feb 06 j 00:15 10°906'37 1°41'58 -4977 Nov 07 j 11:49 retrograde 28°**Ⅲ**22'52 min. Earth dist. -4970 Feb 06 j 22:49 10°505'05 29.30183 AU opposition -4976 Jan 24 j 02:59 27°**I**101'05 1°15'25 direct -4970 Apr 28 j 11:00 8°9541'51 min. Earth dist. -4976 Jan 25 j 02:00 26°**Д**59'30 29.25498 AU evening set -4970 Jul 28 j 05:06 10°538'16 direct -4976 Apr 14 j 13:00 25°**Ⅲ**35'55 evening set -4976 Jul 14 j 11:21 27°**Ⅲ**32'24 conjunction -4970 Aug 12 j 17:33 11°**©**12'53 1°37'21 max. Earth dist. -4976 Jul 29 j 03:23 28°**Д**05'01 31.25787 AU minimum elong -4970 Aug 12 j 17:32 11°9512'53 1°37'37 max. Earth dist. -4970 Aug 11 j 17:46 11°510'39 31.30327 AU conjunction -4976 Jul 30 j 04:06 28°**Ⅱ**07′20 1°12'52 morning rise -4970 Aug 28 j 02:40 11°5647'12 minimum elong -4976 Jul 30 j 04:06 28°**Ⅲ**07′20 1°13'08 retrograde -4970 Nov 22 j 14:16 13°539'14 morning rise -4976 Aug 14 j 16:56 28°II41'55 opposition -4969 Feb 08 j 12:03 12°9517'38 1°45'55 -4976 Sep 25 i 04:28 0ಂತಾ min. Earth dist. -4969 Feb 09 i 09:44 12°5516'09 29.30660 AU -4976 Nov 08 i 20:55 0°933'37 direct -4969 Apr 30 j 23:58 10°952'53 retrograde -4976 Dec 25 i 06:50 30°RⅡ evening set -4969 Jul 30 i 15:41 12°5549'16 -4975 Jan 25 j 14:17 29°**Ⅱ**11'51 1°20'09 max. Earth dist. -4969 Aug 14 j 04:54 13°521'42 31.30714 AU opposition -4975 Jan 26 j 13:52 29°**Д**10'14 29.26266 AU min. Earth dist. -4975 Apr 16 j 23:01 -4969 Aug 15 j 03:38 27°TT46'44 conjunction 13°923'50 1°40'58 direct -4975 Jul 16 j 22:29 -4969 Aug 15 j 03:37 29°**Ⅱ**43'13 minimum elong 13°923'50 1°41'13 evening set -4975 Jul 24 j 12:49 -4969 Aug 30 j 12:00 000 13°958'07 morning rise -4969 Nov 24 j 23:30 retrograde 15°950'11 0°9518'05 1°17'14 -4975 Aug 01 j 14:31 -4968 Feb 10 j 24:00 conjunction 14°**©**28'33 1°49'42 opposition -4975 Aug 01 j 14:31 0°518'05 1°17'30 min. Earth dist. -4968 Feb 11 j 22:35 14°527'01 29.30979 AU minimum elong -4975 Jul 31 j 14:12 13°903'50 0°515'49 31.26600 AU -4968 May 02 j 12:28 max. Earth dist. direct -4975 Aug 17 j 02:45 -4968 Aug 01 j 02:23 morning rise 0°952'38 evening set 15°900'08 -4975 Nov 11 j 07:07 retrograde 2°9544'22 1°44'27 -4974 Jan 28 j 01:41 1°522'39 1°24'46 -4968 Aug 16 j 13:34 opposition conjunction 15°934'39 -4968 Aug 16 j 13:33 min. Earth dist. -4974 Jan 29 j 00:06 1°921'07 29.27105 AU minimum elong 15°**©**34'39 1°44'43 -4974 Apr 07 j 05:18 30°R∏ max. Earth dist. -4968 Aug 15 j 14:26 15°532'29 31.30967 AU direct -4974 Apr 19 j 10:24 29°**Ⅲ**57'37 morning rise -4968 Aug 31 j 21:29 16°908'53 -4974 May 01 j 16:03 0ಂತಾ retrograde -4968 Nov 26 j 08:45 18°900'58 evening set -4974 Jul 19 j 09:24 1°954'05 -4967 Feb 12 j 11:42 16°**©**39'19 1°53'20 opposition -4974 Aug 03 j 00:26 2°526'38 31.27454 AU -4967 Feb 13 j 09:03 16°537'52 29.31171 AU max. Earth dist. min. Earth dist. -4967 May 05 j 01:05 15°9514'35 direct -4974 Aug 04 j 00:42 2°528'54 1°21'30 -4967 Aug 03 j 12:53 17°9510'49 conjunction evening set -4974 Aug 04 j 00:41 2°9528'54 minimum elong 1°21'47 -4974 Aug 19 j 12:17 morning rise 3°903'25 conjunction -4967 Aug 18 j 23:28 17°5945'18 1°47'46 retrograde -4974 Nov 13 j 18:13 4°955'13 minimum elong -4967 Aug 18 j 23:27 17°9545'18 1°48'01 opposition -4973 Jan 30 j 13:13 3°533'32 1°29'16 max. Earth dist. -4967 Aug 18 i 00:58 17°5643'11 31.31103 AU min. Earth dist. -4973 Jan 31 j 11:56 3°531'59 29.27982 AU morning rise -4967 Sep 03 i 06:44 18°9519'29 direct -4973 Apr 21 j 21:20 2°908'35 -4967 Nov 28 i 17:52 20°911'37 retrograde -4973 Jul 21 j 20:18 4°905'03 -4966 Feb 14 i 23:45 18°949'54 1°56'48 evening set opposition max. Earth dist. -4973 Aug 05 j 11:49 4°537'39 31.28316 AU min. Earth dist. -4966 Feb 15 j 21:37 18°548'24 29.31287 AU direct -4966 May 07 j 12:00 17°925'10 conjunction -4973 Aug 06 j 11:00 4°539'49 1°25'39 evening set -4966 Aug 05 j 23:05 19°9521'18 minimum elong -4973 Aug 06 j 11:00 4°939'49 1°25'55 max. Earth dist. -4966 Aug 20 j 11:15 19°553'41 31.31200 AU -4973 Aug 21 j 21:53 5°9514'17 morning rise -4973 Nov 16 j 05:11 7°906'09 conjunction -4966 Aug 21 j 09:01 19°955'44 1°50'56 retrograde -4972 Feb 02 j 00:42 -4966 Aug 21 j 09:00 19°**©**55'44 1°51'12 opposition 5°9544'31 1°33'38 minimum elong -4966 Sep 05 j 15:46 min. Earth dist. -4972 Feb 02 j 23:08 5°9542'59 29.28817 AU morning rise 20°9529'53 -4966 Dec 01 j 03:23 direct -4972 Apr 23 j 10:32 4°9519'38 retrograde 22°9522'03 -4965 Feb 17 j 11:40 evening set -4972 Jul 23 j 07:20 6°9516'06 opposition 21°500'17 2°00'07 min. Earth dist. -4965 Feb 18 j 08:10 20°958'53 29.31378 AU conjunction -4972 Aug 07 j 21:12 6°950'49 1°29'41 direct -4965 May 10 j 00:14 19°535'33 minimum elong -4972 Aug 07 j 21:11 6°950'49 1°29'58 evening set -4965 Aug 08 j 09:18 21°931'37 max. Earth dist. -4972 Aug 06 j 21:12 6°9348'34 31.29108 AU -4972 Aug 23 j 07:34 7°525'14 -4965 Aug 23 j 18:33 22°905'59 morning rise conjunction -4972 Nov 17 j 16:44 9°9517'10 -4965 Aug 23 j 18:33 retrograde minimum elong 22°505'59 1°54'11

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4965 in astronomical counting style is the year 4966 BCE in historical counting style. -4965 Aug 22 j 21:00 22°503'58 31.31297 AU min. Earth dist. -4958 Mar 05 i 15:59 6°Ω11'30 29.33247 AU max. Earth dist. -4965 Sep 08 j 00:49 22°5940'06 -4958 May 25 j 10:25 4°Ω48'18 morning rise direct -4965 Dec 03 j 13:52 -4958 Aug 23 j 06:33 6°**Ω**44'05 24°932'20 evening set retrograde -4964 Feb 19 j 23:30 23°9510'30 2°03'14 opposition -4964 Feb 20 j 19:52 -4958 Sep 07 j 11:57 min. Earth dist. 23°509'07 29.31519 AU conjunction 7°**Ω**18'12 2°10'13 7°**Ω**18'12 2°10'27 -4958 Sep 07 j 11:57 direct -4964 May 11 j 10:49 21°9545'48 minimum elong -4958 Sep 06 j 19:41 evening set -4964 Aug 09 j 19:22 23°9541'48 max. Earth dist. 7°**Ω**16'40 31.33135 AU -4958 Sep 22 j 15:02 max. Earth dist. -4964 Aug 24 j 08:10 24°5014'15 31.31466 AU morning rise 7°**Ω**52'08 retrograde -4958 Dec 18 j 16:03 9°**Ω**45′06 8°**Ω**23'16 2°19'58 conjunction -4964 Aug 25 j 04:07 24°9516'08 1°56'47 opposition -4957 Mar 07 j 12:53 minimum elong -4964 Aug 25 j 04:07 24°9516'08 1°57'03 min. Earth dist. -4957 Mar 08 j 04:59 8°**Ω**22'10 29.33331 AU -4964 Sep 09 j 09:46 morning rise 24°950'12 direct -4957 May 27 j 21:13 6°**Ω**59'04 -4964 Dec 05 j 00:00 -4957 Aug 25 j 16:19 retrograde 26°5942'30 evening set 8°**Ω**54'47 opposition -4963 Feb 21 j 11:30 25°9520'39 2°06'11 min. Earth dist. -4963 Feb 22 j 06:54 25°519'20 29.31725 AU conjunction -4957 Sep 09 j 21:17 9°**Ω**28'53 2°11'49 direct -4963 May 13 j 23:12 23°955'59 minimum elong -4957 Sep 09 j 21:17 9°**£**28′53 2°12'01 evening set -4963 Aug 12 j 05:25 25°951'56 max. Earth dist. -4957 Sep 09 j 05:41 9°**Ω**27'25 31.33145 AU morning rise -4957 Sep 24 j 24:00 10°**Ω**02'47 conjunction -4963 Aug 27 j 13:24 26°9526'13 1°59'28 retrograde -4957 Dec 21 j 01:57 11°**Ω**55'52 minimum elong -4963 Aug 27 j 13:24 26°9526'13 1°59'42 opposition -4956 Mar 09 j 01:07 10°**Ω**33'59 2°21'35 max. Earth dist. -4963 Aug 26 j 17:21 26°524'20 31.31714 AU min. Earth dist. -4956 Mar 09 j 16:00 10°**Ω**32'59 29.33260 AU morning rise -4963 Sep 11 i 18:40 27°9500'16 direct -4956 May 29 i 09:20 9°**Ω**09'50 retrograde -4963 Dec 07 i 11:39 28°952'40 evening set -4956 Aug 27 j 02:05 11°Ω05'29 opposition -4962 Feb 23 i 23:33 27°530'48 2°08'58 min. Earth dist. -4962 Feb 24 j 17:51 27°529'34 29.32025 AU conjunction -4956 Sep 11 i 06:32 11°Ω39'33 2°13'14 -4962 May 16 j 09:19 26°906'12 -4956 Sep 11 j 06:32 11°Ω39'32 2°13'27 direct minimum elong 28°902'08 max. Earth dist. -4956 Sep 10 j 14:45 11°Ω38'03 31.33000 AU evening set -4962 Aug 14 j 15:16 -4956 Sep 26 j 09:00 morning rise 12°**Ω**13′26 -4962 Aug 29 j 22:52 28°536'23 2°01'58 -4956 Dec 22 j 12:47 14°**Ω**06'37 conjunction retrograde -4962 Aug 29 j 22:51 -4955 Mar 11 j 13:41 12°Ω44'40 2°23'00 minimum elong 28°\$36'23 2°02'14 opposition -4962 Aug 29 j 04:40 -4955 Mar 12 j 04:35 12°**Ω**43'40 29.33058 AU max. Earth dist. 28°534'40 31.32041 AU min. Earth dist. -4962 Sep 14 j 03:30 29°510'24 direct -4955 May 31 j 19:50 11°**Ω**20′33 morning rise -4962 Oct 08 j 07:18 -4955 Aug 29 j 11:31 0° Ω 13°**Ω**16′06 evening set -4962 Dec 09 j 21:43 retrograde 1°**Ω**02'54 -4961 Feb 14 j 16:54 -4955 Sep 13 j 15:41 13°Ω50'08 2°14'28 30°R∽ conjunction 13°**Ω**50'08 2°14'40 -4961 Feb 26 j 11:41 -4955 Sep 13 j 15:41 opposition 29°5541'02 2°11'33 minimum elong -4955 Sep 13 j 01:30 13°**Ω**48'47 31.32737 AU min. Earth dist. -4961 Feb 27 j 05:47 29°539'49 29.32374 AU max. Earth dist. direct -4961 May 18 j 22:06 28°9516'32 morning rise -4955 Sep 28 j 17:44 14°**Ω**24'00 -4961 Aug 11 j 07:45 $0^{\circ}\Omega$ -4955 Oct 15 j 18:42 15°Ω evening set -4961 Aug 17 j 01:09 $0^{\circ}\Omega 12'25$ retrograde -4955 Dec 24 j 22:49 16°**Ω**17'16 -4954 Mar 11 j 03:43 15°R€ -4961 Sep 01 j 08:02 0°Ω46'38 2°04'18 -4954 Mar 14 j 02:15 14°**Ω**55'15 2°24'13 conjunction opposition -4961 Sep 01 j 08:02 0°**Ω**46'38 2°04'32 min. Earth dist. -4954 Mar 14 j 16:20 14°**Ω**54'18 29.32740 AU minimum elong -4961 Aug 31 j 13:35 0°**Ω**44'54 31.32404 AU direct -4954 Jun 03 j 07:40 13°**Ω**31′08 max. Earth dist. -4961 Sep 16 j 12:26 1°**Ω**20′38 -4954 Aug 19 j 10:48 morning rise 15°**Ω** -4961 Dec 12 j 10:05 retrograde 3°**Ω**13'14 evening set -4954 Aug 31 j 21:01 15°**Ω**26'35 -4960 Feb 28 i 23:45 opposition 1°Ω51'24 2°13'57 max. Earth dist. -4954 Sep 15 i 10:15 15°**Ω**59'13 31.32391 AU min. Earth dist. -4960 Feb 29 i 16:26 1°Ω50'17 29.32734 AU -4954 Sep 16 i 00:39 direct -4960 May 20 j 10:16 0°Ω26'59 conjunction 16°Ω00'35 2°15'30 minimum elong -4960 Aug 18 j 10:57 2° **Ω**22'51 -4954 Sep 16 i 00:39 16°Ω00'35 2°15'43 evening set -4954 Oct 01 j 02:38 16°**Ω**34'26 morning rise -4960 Sep 02 j 17:26 2°Ω57'02 2°06'27 -4954 Dec 27 j 10:26 18°Ω27'48 conjunction retrograde -4960 Sep 02 j 17:25 2°Ω57'02 2°06'42 -4953 Mar 16 j 14:41 17°**Ω**05'41 2°25'14 minimum elong opposition -4960 Sep 02 j 00:24 max. Earth dist. 2°**Ω**55'26 31.32732 AU min. Earth dist. -4953 Mar 17 j 03:42 17°**Ω**04'48 29.32390 AU morning rise -4960 Sep 17 j 21:14 3°**£**31′00 direct -4953 Jun 05 j 17:30 15°**Ω**41'34 retrograde -4960 Dec 13 j 20:04 5°**Ω**23'45 evening set -4953 Sep 03 j 06:11 17°**Ω**36'55 opposition -4959 Mar 02 j 12:01 4°Ω01'55 2°16'09 -4959 Mar 03 j 05:15 4°**Ω**00'45 29.33036 AU -4953 Sep 18 j 09:39 18°**Ω**10'53 2°16'21 min. Earth dist. conjunction -4959 May 22 j 22:07 2°**Ω**37'35 -4953 Sep 18 j 09:39 direct minimum elong 18°**Ω**10'53 2°16'32 -4953 Sep 17 j 21:11 18°**Ω**09'43 31.32031 AU evening set -4959 Aug 20 j 20:51 4°Ω33'26 max. Earth dist. -4959 Sep 04 j 09:48 18°**Ω**44'44 max. Earth dist. 5°**Ω**05'59 31.32995 AU morning rise -4953 Oct 03 j 11:15 retrograde -4953 Dec 29 j 20:40 20°**Ω**38′10 conjunction -4959 Sep 05 j 02:42 5°**Ω**07'34 2°08'26 opposition -4952 Mar 18 j 03:13 19°**Ω**15'58 2°26'02 minimum elong -4959 Sep 05 j 02:42 5°**Ω**07'34 2°08'39 min. Earth dist. -4952 Mar 18 j 15:48 19°**Ω**15'07 29.32041 AU morning rise -4959 Sep 20 j 06:11 5°**Ω**41'31 direct -4952 Jun 07 j 06:33 17°**Ω**51'53 -4959 Dec 16 j 06:06 7°**Ω**34'22 -4952 Sep 04 j 15:28 19°**Ω**47'07 retrograde evening set

-4958 Mar 05 j 00:21

opposition

6° € 12'33 2°18'09

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4952 in astronomical counting style is the year 4953 BCE in historical counting style. -4952 Sep 19 i 18:25 20°**Ω**21'04 2°17'00 retrograde -4945 Jan 14 i 00:21 5° m 50'58 conjunction -4952 Sep 19 j 18:25 20°Ω21'04 2°17'12 -4945 Apr 03 j 19:50 4° m 28'30 2°25'46 minimum elong opposition -4952 Sep 19 j 06:04 20° **Ω**19'54 31.31716 AU min. Earth dist. -4945 Apr 04 j 01:23 4° Mp 28'08 29.31117 AU max. Earth dist. -4952 Oct 04 j 19:56 20°**Ω**54'54 -4945 Jun 23 j 14:41 3° Mp 04'54 morning rise direct -4952 Dec 31 j 09:13 22°**Ω**48′26 -4945 Sep 20 j 07:08 4° m 59'37 retrograde evening set 21°**Ω**26'09 2°26'38 opposition -4951 Mar 20 j 15:38 -4945 Oct 05 j 08:35 min. Earth dist. -4951 Mar 21 j 02:16 21°**Ω**25'26 29.31769 AU conjunction 5° m 33'30 2°16'04 -4945 Oct 05 j 08:35 direct -4951 Jun 09 j 18:26 20°**Ω**02'05 minimum elong 5° m 33'30 2°16'11 5° Mg 32'56 31.30799 AU evening set -4951 Sep 07 j 00:36 21°**Ω**57'15 max. Earth dist. -4945 Oct 05 j 02:43 morning rise -4945 Oct 20 j 09:34 6° 1007'20 conjunction -4951 Sep 22 j 03:21 22°**Ω**31'11 2°17'28 retrograde -4944 Jan 16 j 12:56 8° m 01'49 -4951 Sep 22 j 03:21 -4944 Apr 05 j 08:43 minimum elong 22°**Ω**31'11 2°17'38 opposition 6° m 39'18 2°24'54 -4951 Sep 21 j 16:49 max. Earth dist. 22°**Ω**30'11 31.31486 AU min. Earth dist. -4944 Apr 05 j 13:21 6° M 38'59 29.30785 AU morning rise -4951 Oct 07 j 04:33 23° **Q**05'00 direct -4944 Jun 25 j 00:18 5° m 15'45 retrograde -4950 Jan 02 j 19:21 24° **Q**58'39 evening set -4944 Sep 21 j 16:09 7° m 10'23 opposition -4950 Mar 23 j 04:20 23°**Ω**36'19 2°27'01 min. Earth dist. -4950 Mar 23 j 14:48 23°**Ω**35'37 29.31593 AU conjunction -4944 Oct 06 j 17:39 7° mp 44'16 2°15'09 direct -4950 Jun 12 j 05:44 22°**Ω**12'19 minimum elong -4944 Oct 06 j 17:39 7° mp 44'16 2°15'17 evening set -4950 Sep 09 j 09:37 24°**Ω**07′23 max. Earth dist. -4944 Oct 06 j 13:22 7° mp 43'51 31.30385 AU morning rise -4944 Oct 21 j 18:29 8° m 18'07 conjunction -4950 Sep 24 j 12:04 24°Ω41'18 2°17'44 retrograde -4943 Jan 17 j 23:49 10° m 12'43 minimum elong -4950 Sep 24 i 12:04 24°Ω41'18 2°17'54 opposition -4943 Apr 07 j 21:44 8° m 50'09 2°23'49 max. Earth dist. -4950 Sep 24 i 02:24 24° Ω 40'23 31.31366 AU min. Earth dist. -4943 Apr 08 i 02:13 8° m 49'50 29.30290 AU morning rise -4950 Oct 09 j 13:14 25°**Ω**15'06 direct -4943 Jun 27 j 12:38 7° m 26'39 retrograde -4949 Jan 05 j 05:55 27°**Ω**08'52 evening set -4943 Sep 24 j 01:20 9° m 21'10 -4949 Mar 25 j 16:50 25°Ω46'31 2°27'11 opposition -4949 Mar 26 j 01:09 25°**Ω**45'57 29.31504 AU -4943 Oct 09 i 02:39 9° m 55'03 2°14'02 min. Earth dist. conjunction -4949 Jun 14 j 18:19 24°**Ω**22'35 -4943 Oct 09 j 02:39 9° m 55'03 2°14'09 direct minimum elong -4949 Sep 11 j 18:43 -4943 Oct 08 j 22:11 9° m 54'38 31.29834 AU evening set 26°**Ω**17'34 max. Earth dist. -4943 Oct 24 j 03:42 10° m 28'55 morning rise -4949 Sep 26 j 20:55 26°Ω51'29 2°17'47 -4942 Jan 20 j 13:10 12° m 23'38 conjunction retrograde -4949 Sep 26 j 20:55 opposition -4942 Apr 10 j 10:39 26°**Ω**51'29 2°17'56 11° m 00'59 2°22'31 minimum elong -4942 Apr 10 j 13:33 -4949 Sep 26 j 12:11 max. Earth dist. 26°**Ω**50'40 31.31302 AU min. Earth dist. 11° Mp 00'47 29.29671 AU -4949 Oct 11 j 21:58 27°**Ω**25'18 -4942 Jun 29 j 23:56 9° m 37'30 morning rise direct -4948 Jan 07 j 16:39 29°**Ω**19'12 -4942 Sep 26 j 10:12 retrograde evening set 11° Mp 31'56 -4948 Mar 27 j 05:24 27° **Ω**56'48 2°27'09 opposition -4942 Oct 11 j 11:35 12° m 05'49 2°12'44 min. Earth dist. -4948 Mar 27 j 13:43 27° **Ω**56'15 29.31464 AU conjunction direct -4948 Jun 16 j 05:21 26°**Ω**32'57 minimum elong -4942 Oct 11 j 11:36 12° mg 05'49 2°12'51 -4948 Sep 13 j 03:47 28°**Ω**27'53 max. Earth dist. -4942 Oct 11 j 08:29 12° m 05'31 31.29157 AU evening set morning rise -4942 Oct 26 j 12:42 12° m 39'42 conjunction -4948 Sep 28 j 05:49 29°**Ω**01'47 2°17'39 retrograde -4941 Jan 22 j 23:52 14° m/34'32 -4948 Sep 28 j 05:50 29°Ω01'47 2°17'49 -4941 Apr 12 j 23:39 13° m 11'46 2°21'02 minimum elong opposition -4948 Sep 27 j 22:27 29°**Ω**01'05 31.31272 AU min. Earth dist. -4941 Apr 13 j 02:47 13° Mp 11'34 29.28950 AU max. Earth dist. -4948 Oct 13 j 06:44 29°**Ω**35'36 -4941 Jul 02 j 11:10 11°M/48'19 morning rise direct -4948 Oct 24 j 14:43 -4941 Sep 28 j 19:08 13° m/42'38 evening set retrograde -4947 Jan 09 i 02:54 1° m 29'38 -4941 Oct 13 i 20:30 opposition -4947 Mar 29 j 18:07 0° m 07'14 2°26'54 conjunction 14° m 16'31 2°11'15 min. Earth dist. -4947 Mar 30 i 00:45 0° m 06'47 29.31414 AU minimum elong -4941 Oct 13 i 20:30 14° m 16'31 2°11'20 -4947 Apr 03 i 05:41 30°RΩ max. Earth dist. -4941 Oct 13 i 18:11 14° m 16'18 31.28422 AU direct -4947 Jun 18 i 17:33 28°Ω43'29 -4941 Oct 28 j 21:47 14° m 50'25 morning rise -4947 Aug 28 j 07:54 0°m -4940 Jan 25 j 11:00 16° m 45'20 retrograde -4947 Sep 15 j 12:51 0° m/38'20 -4940 Apr 14 j 12:21 15° m 22'30 2°19'21 evening set opposition min. Earth dist. -4940 Apr 14 j 13:29 15° m 22'25 29.28197 AU conjunction -4947 Sep 30 j 14:34 1° m 12'13 2°17'19 direct -4940 Jul 04 j 00:11 13° m 59'03 minimum elong -4947 Sep 30 j 14:34 1° m 12'13 2°17'28 evening set -4940 Sep 30 j 04:01 15° m 53'16 max. Earth dist. -4947 Sep 30 j 07:22 1° Mp 11'32 31.31203 AU -4947 Oct 15 j 15:32 1° Mp 46'03 conjunction -4940 Oct 15 j 05:21 16° **m** 27'09 $2^{\circ}09'35$ morning rise -4946 Jan 11 j 14:06 3° Tp 40'14 -4940 Oct 15 j 05:22 16° Tp 27'10 2°09'40 retrograde minimum elong -4946 Apr 01 j 07:03 -4940 Oct 15 j 03:53 16° Mp 27'01 31.27676 AU opposition 2°m/17'48 2°26'26 max. Earth dist. 2° Mp 17'23 29.31320 AU -4940 Oct 30 j 06:50 min. Earth dist. -4946 Apr 01 j 13:23 morning rise 17° mp 01'05 -4939 Jan 26 j 22:29 direct -4946 Jun 21 j 03:22 0° m 54'08 retrograde 18° m 56'07 evening set -4946 Sep 17 j 21:55 2° Mp 48'55 opposition -4939 Apr 17 j 01:24 17° m 33'10 2°17'28 min. Earth dist. -4939 Apr 17 j 02:18 17° m 33'07 29.27480 AU conjunction -4946 Oct 02 j 23:38 3° m 22'48 2°16'48 direct -4939 Jul 06 j 11:42 16° m 09'47 minimum elong -4946 Oct 02 j 23:39 3° m 22'48 2°16'56 evening set -4939 Oct 02 j 12:42 18° m 03'52 -4946 Oct 02 j 18:12 3°M22'17 31.31062 AU max. Earth dist. -4946 Oct 18 j 00:26 -4939 Oct 17 j 14:11 18° mp 37'46 2°07'44 morning rise 3° m 56'38 conjunction

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4939 in astronomical counting style is the year 4940 BCE in historical counting style. opposition -4939 Oct 17 j 14:11 18° m 37'46 2°07'47 -4932 May 02 j 20:22 2°**♀**50'42 1°58'50 minimum elong 18° m/37'48 31.27000 AU -4939 Oct 17 j 14:28 min. Earth dist. -4932 May 02 j 14:31 2°**2**51'06 29.23606 AU max. Earth dist. -4939 Nov 01 j 15:46 19° m 11'43 -4932 Jul 21 j 14:12 1°**£**27'45 direct morning rise -4938 Jan 29 j 08:45 -4932 Oct 17 j 03:06 3°**£**21'17 21° Mp 06'53 retrograde evening set -4938 Apr 19 j 14:19 19° m 43'52 2°15'23 opposition 19° **m** 43'57 29.26834 AU -4932 Nov 01 j 05:40 3°**♀**55'20 min. Earth dist. -4938 Apr 19 j 13:08 conjunction 1°49'40 -4938 Jul 09 j 00:11 -4932 Nov 01 j 05:41 1°49'41 direct 18° m 20'31 minimum elong 3°**♀**55'20 evening set -4938 Oct 04 j 21:36 20° m 14'31 max. Earth dist. -4932 Nov 01 j 12:13 3°**♀**55'57 31.23109 AU morning rise -4932 Nov 16 j 09:23 4°**£**29'30 conjunction -4938 Oct 19 j 23:02 20° Mp 48'26 2°05'41 retrograde -4931 Feb 13 j 20:12 6°**£**25'39 minimum elong -4938 Oct 19 j 23:03 20° Mp 48'262°05'45 opposition -4931 May 05 j 09:30 5°**≙**02'17 1°55'26 max. Earth dist. -4938 Oct 19 j 23:39 20° Mp 48'29 31.26402 AU min. Earth dist. -4931 May 05 j 01:56 5°**♀**02'47 29.22793 AU -4931 Jul 24 j 03:17 morning rise -4938 Nov 04 j 01:00 21° My 22'24 direct 3°**£**39'21 retrograde -4937 Jan 31 j 19:44 23° Mp 17'42 evening set -4931 Oct 19 j 12:12 5°**£**32'47 opposition -4937 Apr 22 j 03:10 21° M 54'38 2°13'06 min. Earth dist. -4937 Apr 22 j 01:23 21° m 54'45 29.26283 AU conjunction -4931 Nov 03 j 14:58 6°**♀**06'52 1°46'25 direct -4937 Jul 11 j 09:55 20° m 31'20 minimum elong -4931 Nov 03 j 14:58 6°**♀**06'52 1°46'24 evening set -4937 Oct 07 j 06:19 22° m 25'15 max. Earth dist. -4931 Nov 03 j 21:43 6°**2**07'30 31.22222 AU morning rise -4931 Nov 18 j 19:10 6°**£**41'05 conjunction -4937 Oct 22 j 08:03 22° m 59'12 2°03'27 retrograde -4930 Feb 16 j 09:12 8°**£**37'20 minimum elong -4937 Oct 22 j 08:04 22° m 59'12 2°03'30 opposition -4930 May 07 j 22:48 7°**£**13'52 1°51'53 max. Earth dist. -4937 Oct 22 j 10:49 22° m 59'27 31.25889 AU min. Earth dist. -4930 May 07 j 15:33 7°**2**14'21 29.21833 AU morning rise -4937 Nov 06 j 10:06 23°m 33'12 direct -4930 Jul 26 i 14:49 5°**£**50'57 retrograde -4936 Feb 03 i 05:45 25° m 28'38 evening set -4930 Oct 21 j 21:17 7°**-**44'16 -4936 Apr 23 j 16:06 24° m 05'31 2°10'38 opposition -4936 Apr 23 j 13:04 24° m 05'44 29.25783 AU -4930 Nov 06 j 00:29 8°**£**18'22 1°43'01 min. Earth dist. conjunction -4936 Jul 12 j 21:04 22° m 42'18 -4930 Nov 06 j 00:30 8°**£**18'22 1°43'01 minimum elong direct -4936 Oct 08 j 15:09 24° m 36'08 -4930 Nov 06 j 08:34 8°**2**19'08 31.21206 AU max. Earth dist. evening set morning rise -4930 Nov 21 j 05:01 8° £ 52'37 -4936 Oct 23 j 16:50 25° m 10'06 2°01'03 -4929 Feb 18 j 19:51 10° **Ω** 48'57 conjunction retrograde opposition -4929 May 10 j 11:41 -4936 Oct 23 j 16:51 25° m 10'06 2°01'06 9°**£**25'23 1°48'10 minimum elong -4936 Oct 23 j 19:40 -4929 May 10 j 02:57 max. Earth dist. 25° m 10'22 31.25419 AU min. Earth dist. 9°**2**25'58 29.20744 AU -4936 Nov 07 j 19:20 25° m/44'08 -4929 Jul 29 j 03:36 8°**₽**02'27 morning rise direct -4935 Feb 04 j 18:43 27° m 39'43 -4929 Oct 24 j 06:26 9°**£**55'39 retrograde evening set -4935 Apr 26 j 05:08 26° m 16'35 2°07'57 opposition -4935 Apr 26 j 00:49 -4929 Nov 08 j 09:48 10°**2**29'47 1°39'28 min. Earth dist. 26° m 16'52 29.25320 AU conjunction -4929 Nov 08 j 09:49 direct -4935 Jul 15 j 06:31 24° m 53'26 minimum elong 10°**2**29'47 1°39'26 evening set -4935 Oct 10 j 23:58 26° Mp 47'12 max. Earth dist. -4929 Nov 08 j 17:43 10°**೨**30'32 31.20084 AU morning rise -4929 Nov 23 j 14:56 11°**≙**04'05 conjunction -4935 Oct 26 j 01:57 27° m/21'11 1°58'28 retrograde -4928 Feb 21 j 07:23 13°**♀**00'30 -4935 Oct 26 j 01:58 27° m/21'11 1°58'29 opposition -4928 May 12 j 00:47 11°**△**36'48 1°44'18 minimum elong -4935 Oct 26 j 06:39 27° m 21'37 31.24952 AU min. Earth dist. -4928 May 11 j 15:48 11°**2**37'24 29.19598 AU max. Earth dist. -4935 Nov 10 j 04:36 27° m 55'15 -4928 Jul 30 j 14:21 10°**♀**13'52 morning rise direct -4934 Feb 07 j 05:54 29° m 51'00 -4928 Oct 25 j 15:18 12°**2**06'56 retrograde evening set -4934 Apr 28 j 18:14 opposition 28° Mp 27'48 $2^{\circ}05'06$ -4928 Nov 09 j 19:08 min. Earth dist. -4934 Apr 28 i 13:33 28° m 28'07 29.24832 AU conjunction 12°**2**41'06 1°35'46 direct -4934 Jul 17 i 17:43 27° m 04'45 minimum elong -4928 Nov 09 i 19:09 12°**-**41′06 1°35'45 -4934 Oct 13 j 08:55 evening set 28° m 58'26 max. Earth dist. -4928 Nov 10 i 05:07 12°**2**42'03 31.18930 AU morning rise -4928 Nov 25 i 00:32 13°**♀**15'26 -4934 Oct 28 j 11:01 29° m 32'26 1°55'42 retrograde -4927 Feb 22 i 17:23 15°**£**11'56 conjunction -4934 Oct 28 i 11:01 29° m 32'26 1°55'44 opposition -4927 May 14 i 13:48 13°**≏**48'08 1°40'17 minimum elong max. Earth dist. -4934 Oct 28 j 15:50 29° m 32'53 31.24449 AU min. Earth dist. -4927 May 14 j 03:38 13°**△**48'49 29.18445 AU -4927 Aug 02 j 02:38 -4934 Nov 09 j 15:36 0∘**⊽** 12°**£**25'11 direct morning rise -4934 Nov 12 j 14:07 0°**₽**06'32 evening set -4927 Oct 28 j 00:25 14°**♀**18'09 -4933 Feb 09 j 19:40 2°**2**02'25 retrograde opposition -4933 May 01 j 07:15 0°**2**39'11 2°02'03 conjunction -4927 Nov 12 j 04:26 14°**♀**52'20 1°31'57 min. Earth dist. -4933 May 01 j 01:00 0°**೨**39'37 29.24281 AU minimum elong -4927 Nov 12 j 04:27 14°**£**52'20 1°31'53 -4933 May 26 j 12:03 -4927 Nov 12 j 14:28 14°**2**53'17 31.17816 AU 30°R M max. Earth dist. -4933 Jul 20 j 03:48 29° Mp 16'11 -4927 Nov 27 j 10:28 direct morning rise 15°**2**26'43 0∘**⊽** -4933 Sep 10 j 03:56 retrograde -4926 Feb 25 j 06:09 17°**2**23′19 evening set -4933 Oct 15 j 17:58 1°**≏**09'48 opposition -4926 May 17 j 02:43 15°**⊆**59'25 1°36'07 min. Earth dist. -4926 May 16 j 15:18 16°**2**00'11 29.17372 AU conjunction -4933 Oct 30 j 20:18 1°**2**43'50 1°52'46 direct -4926 Aug 04 j 12:29 14°**£**36′28 minimum elong -4933 Oct 30 j 20:19 1°**£**43'50 1°52'46 evening set -4926 Oct 30 j 09:25 16°**£**29'21 max. Earth dist. -4933 Oct 31 j 02:11 1°**♀**44'23 31.23838 AU -4933 Nov 14 j 23:40 2°**£**17'58 -4926 Nov 14 j 13:56 17°**♀**03'34 morning rise conjunction 1°27'59 -4932 Feb 12 j 07:11 4°**£**14'00 -4926 Nov 14 j 13:57 17°**♀**03'34 retrograde minimum elong

Planetary Phenomena of Neptune from -5400 through -4898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -4926 in astronomical counting style is the year 4927 BCE in historical counting style. -4926 Nov 15 i 01:51 17°**2**04'42 31.16782 AU min. Earth dist. -4919 Jun 01 i 04:34 1°M23'19 29.11394 AU max. Earth dist. -4926 Nov 29 j 20:21 17°**£**38′00 -4919 Aug 14 j 15:18 morning rise -4925 Feb 27 j 16:42 19°**£**34'43 -4919 Aug 19 j 16:39 29°**£**59'34 retrograde direct -4925 May 19 j 15:39 -4919 Aug 24 j 16:45 18° **△** 10'43 1°31'48 0°M opposition -4925 May 19 j 03:38 -4919 Nov 14 j 02:59 min. Earth dist. 18°**£**11'32 29.16379 AU evening set 1°M52'07 direct -4925 Aug 06 j 23:29 16°**£**47'49 -4925 Nov 01 j 18:32 -4919 Nov 29 j 10:26 2°M26'37 evening set 18°**△**40'37 conjunction 0°56'52 -4919 Nov 29 j 10:27 minimum elong 2°M26'37 0°56'44 1°23'53 conjunction -4925 Nov 16 j 23:20 19°**♀**14'52 max. Earth dist. -4919 Nov 30 j 04:04 2°M28'17 31.10843 AU minimum elong -4925 Nov 16 j 23:21 19°**£**14'52 1°23'48 morning rise -4919 Dec 14 j 20:33 3°ML01'24 max. Earth dist. -4925 Nov 17 j 11:41 19°**≙**16'02 31.15851 AU retrograde -4918 Mar 15 j 10:21 4°ML59'01 -4918 Jun 04 j 10:11 morning rise -4925 Dec 02 j 06:18 19°**₽**49'21 opposition 3°M34'42 0°58'08 retrograde -4924 Mar 01 j 06:04 21°**₽**46'11 min. Earth dist. -4918 Jun 03 j 16:53 3°M35'53 29.10353 AU opposition -4924 May 21 j 04:25 20°**-**22′08 1°27'21 direct -4918 Aug 22 j 05:14 2°M12'06 min. Earth dist. -4924 May 20 j 14:32 20°**£**23'05 29.15488 AU evening set -4918 Nov 16 j 12:50 4°ML04'35 direct -4924 Aug 08 j 09:04 18°**♀**59'16 evening set -4924 Nov 03 j 03:41 20°**♀**52'01 conjunction -4918 Dec 01 j 20:39 4°M39'08 0°52'01 minimum elong -4918 Dec 01 j 20:39 4°M39'08 0°51'54 4°**™**40'44 conjunction -4924 Nov 18 j 08:54 21°**♀**26'19 1°19'40 max. Earth dist. -4918 Dec 02 j 13:40 31.09754 AU minimum elong -4924 Nov 18 j 08:54 21°**♀**26'19 1°19'36 morning rise -4918 Dec 17 j 07:30 5°M13'58 max. Earth dist. -4924 Nov 18 j 22:34 21°**≏**27'36 31.15004 AU retrograde -4917 Mar 17 j 23:27 7°M11'40 morning rise -4924 Dec 03 i 16:22 22°**₽**00'50 opposition -4917 Jun 06 i 23:07 5°M47'16 0°52'55 retrograde -4923 Mar 03 j 18:03 23°**♀**57'49 min. Earth dist. -4917 Jun 06 i 05:15 5°**M**48′29 29.09207 AU opposition -4923 May 23 j 17:28 22°**♀**33'43 1°22'47 direct -4917 Aug 24 i 15:39 4°M24'38 min. Earth dist. -4923 May 23 j 03:37 22°**₽**34'40 29.14675 AU evening set -4917 Nov 18 j 22:33 6°M17'03 -4923 Aug 10 j 18:50 21°**♀**10'55 direct -4923 Nov 05 j 12:48 23°**♀**03'37 -4917 Dec 04 j 06:55 6°ML51'38 0°47'06 evening set conjunction -4917 Dec 04 j 06:55 minimum elong 6°M.51'38 0°46'57 -4923 Nov 20 j 18:30 max. Earth dist. -4917 Dec 05 j 01:14 6°ML53'22 31.08558 AU conjunction 23°**△**37'57 1°15'19 -4917 Dec 19 j 18:13 -4923 Nov 20 j 18:30 minimum elong 23°**₽**37'57 1°15'13 morning rise 7°M26'31 -4923 Nov 21 j 09:18 -4916 Mar 19 j 09:17 max. Earth dist. 23°**♀**39'21 31.14232 AU retrograde 9°M24'17 7°**M**59'47 0°47'37 -4923 Dec 06 j 02:29 -4916 Jun 08 j 11:58 24°**£**12'32 opposition morning rise -4922 Mar 06 j 07:54 26°**₽**09'39 min. Earth dist. -4916 Jun 07 j 18:02 retrograde -4922 May 26 j 06:22 -4916 Aug 26 j 03:03 opposition 24°**£**45'31 1°18'04 direct 6°M37'08 -4922 May 25 j 14:40 -4916 Nov 20 j 08:23 min. Earth dist. 24°**£**46'35 29.13907 AU evening set 8°M29'28 direct -4922 Aug 13 j 07:06 23°**£**22'46 9°ML04'05 0°42'07 -4922 Nov 07 j 22:16 -4916 Dec 05 j 17:11 evening set 25°**£**15′26 conjunction minimum elong -4916 Dec 05 j 17:11 9°M04'05 0°41'58 conjunction -4922 Nov 23 j 04:16 25°**♀**49'49 1°10'52 max. Earth dist. -4916 Dec 06 j 11:39 9°M05'50 31.07333 AU minimum elong -4922 Nov 23 j 04:17 25°**♀**49'49 1°10'46 morning rise -4916 Dec 21 j 05:08 9°M39'01 max. Earth dist. -4922 Nov 23 j 19:20 25°**♀**51'14 31.13466 AU retrograde -4915 Mar 21 j 22:28 11°M36'51 -4922 Dec 08 j 12:53 26°**£**24'26 min. Earth dist. -4915 Jun 10 j 05:21 10°M13'34 29.06753 AU morning rise -4921 Mar 08 j 21:56 28°**≏**21'42 -4915 Jun 11 j 00:44 10°M12'14 0°42'15 retrograde opposition -4921 May 28 j 19:15 26°**♀**57'32 1°13'15 -4915 Aug 28 j 12:57 8°M49'32 opposition direct -4921 May 28 j 03:54 26°**♀**58'34 29.13136 AU -4915 Nov 22 j 18:12 10°M41'48 min. Earth dist. evening set direct -4921 Aug 15 i 17:37 25°**♀**34'50 -4915 Dec 08 i 03:28 evening set -4921 Nov 10 j 07:42 27°**₽**27'29 conjunction 11°M16'28 0°37'04 -4915 Dec 08 i 03:29 minimum elong 11°M16'28 0°36'54 conjunction -4921 Nov 25 i 14:16 28°**2**01'54 1°06'18 max. Earth dist. -4915 Dec 08 i 22:55 11°ML18'18 31.06123 AU -4921 Nov 25 i 14:17 28°**£**01'54 1°06'10 morning rise -4915 Dec 23 i 16:01 11°M51'26 minimum elong max. Earth dist. -4921 Nov 26 j 06:45 28°**2**03'27 31.12681 AU retrograde -4914 Mar 24 j 09:59 13°ML49'21 -4921 Dec 10 j 23:17 28°**£**36'35 opposition -4914 Jun 13 j 13:32 12°M24'38 0°36'49 morning rise -4920 Jan 24 j 03:55 0°M min. Earth dist. -4914 Jun 12 j 18:26 12°M25'57 29.05580 AU retrograde -4920 Mar 10 j 09:44 0° M33'58direct -4914 Aug 30 j 23:07 11°ML01'54 -4920 Apr 27 j 07:43 30°R Ω evening set -4914 Nov 25 j 04:08 12°M54'07 -4920 May 30 j 08:10 opposition 29° 209'46 1°08'18 min. Earth dist. -4920 May 29 j 15:23 29°**♀**10'55 29.12307 AU conjunction -4914 Dec 10 j 13:58 13°M28'48 0°31'58 -4920 Aug 17 j 05:50 27°**£**47'07 -4914 Dec 10 j 13:59 0°31'49 direct minimum elong 13°M28'48 -4920 Nov 11 j 17:18 29°**△**39'43 -4914 Dec 11 j 10:27 13°ML30'44 31.05002 AU evening set max. Earth dist. -4920 Nov 20 j 18:24 0° M 14°M03'49 morning rise -4914 Dec 26 j 03:01 -4913 Jan 22 j 14:37 15°M conjunction -4920 Nov 27 j 00:08 0°M14'11 1°01'37 retrograde -4913 Mar 26 j 23:25 16°ML01'47 minimum elong -4920 Nov 27 j 00:08 0°M14'11 1°01'31 -4913 Jun 01 j 21:55 15°RM max. Earth dist. -4920 Nov 27 j 16:13 0°**M** 15'42 31.11814 AU min. Earth dist. -4913 Jun 15 j 05:07 14°M38'26 29.04508 AU morning rise -4920 Dec 12 j 09:51 0°M48'55 opposition -4913 Jun 16 j 01:58 14°M37'00 0°31'20 -4919 Mar 12 j 22:51 2°M46'26 -4913 Sep 02 j 10:59 13°ML14'15 retrograde direct -4919 Jun 01 j 21:17 1°ML22'11 1°03'16 -4913 Nov 24 j 15:57 15°M opposition

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Attention, astronom	ical year style is used: Th	ne year -4913 i	in astronomical co	unting style is the year	4914 BCE in historical of	counting style.	
evening set	-4913 Nov 27 j 14:13	15°M06'26		evening set	-4907 Dec 10 j 04:46	28°M23'25	
conjunction	-4913 Dec 13 j 00:24	15°M41'09	0°26'49	conjunction	-4907 Dec 25 j 17:59	28°M58'24	-0°04'53
minimum elong	-4913 Dec 13 j 00:24	15° M 41'09	0°26'38	minimum elong	-4907 Dec 25 j 17:59	28°M58'24	0°05'07
max. Earth dist.	-4913 Dec 13 j 21:04	15° ™ 43'06	31.03984 AU	behind sun begin	-4907 Dec 25 j 11:43	28°M57'50	
morning rise	-4913 Dec 28 j 14:06	16°M16'13		behind sun end	-4907 Dec 26 j 00:16	28°M58'58	
retrograde	-4912 Mar 28 j 12:54	18° ™ 14'17		max. Earth dist.	-4907 Dec 26 j 17:51		30.99403 AU
opposition	-4912 Jun 17 j 14:42	16°M49'25	0°25'48	morning rise	-4906 Jan 10 j 11:01	29°M33'45	30.55 103 110
min. Earth dist.	-4912 Jun 16 j 18:01		29.03558 AU	morning rise	-4906 Jan 22 j 15:59	0° x ⁷	
direct	-4912 Sep 03 j 20:47	15°M26'40	27.03336 AO	retrograde	-4906 Apr 11 j 19:36	1° × ⁷ 32'21	
				•	-4906 Jul 01 j 18:13	0° ₹ 07'22	0000104
evening set	-4912 Nov 29 j 00:04	17°M18'49		opposition	,		
	1010 D 11:10 55	1 50 M 5010 5	0001100	min. Earth dist.	-4906 Jun 30 j 18:29		28.98994 AU
conjunction	-4912 Dec 14 j 10:55	17°M53'35			-4906 Jul 06 j 05:16	30°₽M	
minimum elong	-4912 Dec 14 j 10:55	17° M 53'35	0°21'28	direct	-4906 Sep 17 j 15:42	28°M44'43	
max. Earth dist.	-4912 Dec 15 j 09:16		31.03099 AU		-4906 Nov 25 j 03:53	0°⊀	
morning rise	-4912 Dec 30 j 01:03	18° ™ 28'42		evening set	-4906 Dec 12 j 15:53	0° ∡ ³36'54	
retrograde	-4911 Mar 31 j 01:28	20° ™ 26′50					
min. Earth dist.	-4911 Jun 19 j 05:00	19° ™ 03'28	29.02719 AU	conjunction	-4906 Dec 28 j 05:34	1° ⋌ ¹11'56	-0°10'10
opposition	-4911 Jun 20 j 03:17	19° ™ 01'56	0°20'14	minimum elong	-4906 Dec 28 j 05:33	1° √ 11'56	0°10'22
direct	-4911 Sep 06 j 08:56	17° M ₊39'12		behind sun begin	-4906 Dec 28 j 00:27	1° √ 11′28	
evening set	-4911 Dec 01 j 10:24	19°M31'20		behind sun end	-4906 Dec 28 j 10:40	1° ∡ 12'24	
S	J			max. Earth dist.	-4906 Dec 29 i 05:32		30.98490 AU
conjunction	-4911 Dec 16 j 21:34	20°M06'08	0°16'24	morning rise	-4905 Jan 12 j 23:07	1° × 747'20	
minimum elong	-4911 Dec 16 j 21:34	20°M06'08	0°16'12	retrograde	-4905 Apr 14 j 07:10	3°×746'00	
max. Earth dist.	-4911 Dec 17 j 19:37		31.02313 AU	min. Earth dist.	-4905 Jul 03 j 08:01		28.98027 AU
	-4910 Jan 01 j 12:28	20°M41'18	31.02313 AO		-4905 Jul 04 j 06:45	2°×20'58	
morning rise	,			opposition	•		-0 13 44
retrograde	-4910 Apr 02 j 15:49	22°M39'32	001.412.6	direct	-4905 Sep 20 j 01:56	0° ₹ 58'18	
opposition	-4910 Jun 22 j 15:50	21°M14'36		evening set	-4905 Dec 15 j 02:56	2° ∡ 50′29	
min. Earth dist.	-4910 Jun 21 j 17:36		29.01981 AU				
direct	-4910 Sep 08 j 19:32	19° M 51'53		conjunction	-4905 Dec 30 j 17:11	3° ₹ 25'33	
evening set	-4910 Dec 03 j 20:40	21°M44'01		minimum elong	-4905 Dec 30 j 17:11	3° х 25′33	0°15'40
				behind sun begin	-4905 Dec 30 j 15:42	3° ∡ ¹25'25	
conjunction	-4910 Dec 19 j 08:30	22°M18'53	0°11'08	behind sun end	-4905 Dec 30 j 18:40	3° ∡ ¹25'41	
minimum elong	-4910 Dec 19 j 08:30	22°M18'53	0°10'57	max. Earth dist.	-4905 Dec 31 j 17:31	3° 渘 ¹27'50	30.97481 AU
behind sun begin	-4910 Dec 19 j 03:36	22°M18'26		morning rise	-4904 Jan 15 j 11:13	4° ∡ ¹00'59	
behind sun end	-4910 Dec 19 j 13:24	22°M19'19		retrograde	-4904 Apr 15 j 20:42	5° ₹ '59'42	
max. Earth dist.	-4910 Dec 20 j 08:14	22°M21'07	31.01601 AU	opposition	-4904 Jul 05 j 19:13	4° ∡ ³34'37	-0°19'23
morning rise	-4909 Jan 03 j 23:48	22°M54'06		min. Earth dist.	-4904 Jul 04 j 19:26	4° ∡ ³36'15	28.96971 AU
retrograde	-4909 Apr 05 j 04:21			direct	-4904 Sep 21 j 13:50	3° ҂ 11'54	
min. Earth dist.	-4909 Jun 24 j 05:31		29.01280 AU	evening set	-4904 Dec 16 i 14:01	5° √ 104'05	
opposition	-4909 Jun 25 j 04:22	23°M27'28	0°08'58	evening set	1501 Bec 10 j 1 1.01	3 7 0103	
direct	-4909 Sep 11 j 07:59	22°M04'47	0 00 30	conjunction	-4903 Jan 01 j 04:39	5° ∡ ³39'11	0°20'42
				·	-		
evening set	-4909 Dec 06 j 07:11	23°M56'56		minimum elong	-4903 Jan 01 j 04:38	5° 7 39'11	
	1000 D 21:10 21	2.40W 2.1170	0005150	max. Earth dist.	-4903 Jan 02 j 04:33		30.96392 AU
conjunction	-4909 Dec 21 j 19:21	24°M31'50	0°05'52	morning rise	-4903 Jan 16 j 23:20	6° ₰ 14'40	
minimum elong	-4909 Dec 21 j 19:22	24°M31'50	0°05'39	retrograde	-4903 Apr 18 j 09:49	8° ≯ 13'26	
behind sun begin	-4909 Dec 21 j 13:10	24°M31'16		min. Earth dist.	-4903 Jul 07 j 08:53		28.95875 AU
behind sun end	-4909 Dec 22 j 01:33	24°M32'24		opposition	-4903 Jul 08 j 07:47	6° ≯ 48'15	-0°25'00
max. Earth dist.	-4909 Dec 22 j 18:35		31.00912 AU	direct	-4903 Sep 23 j 23:40	5° ₹ 25'29	
morning rise	-4908 Jan 06 j 11:20	25° ™ 07'06		evening set	-4903 Dec 19 j 01:10	7° √ 17'41	
retrograde	-4908 Apr 06 j 18:02	27°M05'31					
opposition	-4908 Jun 26 j 16:59	25° ™ 40'34	0°03'18	conjunction	-4902 Jan 03 j 16:27	7° ∡ ¹52'49	-0°25'56
min. Earth dist.	-4908 Jun 25 j 17:45	25°M42'10	29.00588 AU	minimum elong	-4902 Jan 03 j 16:27	7° ∡ ¹52'49	0°26'11
direct	-4908 Sep 12 j 18:09	24°M17'55		max. Earth dist.	-4902 Jan 04 j 17:29	7° ∡ 755'10	30.95298 AU
evening set	-4908 Dec 07 j 17:53	26°M10′04		morning rise	-4902 Jan 19 j 11:31	8° ≯ 28'19	
8				retrograde	-4902 Apr 20 j 22:53	10° ∡ 27'07	
conjunction	-4908 Dec 23 j 06:37	26°M45'01	0°00'31	opposition	-4902 Jul 10 j 19:54	9° ₹ 01'53	-0°30'34
minimum elong	-4908 Dec 23 j 06:37	26°M45'01	0°00'19	min. Earth dist.	-4902 Jul 09 j 19:57		28.94797 AU
behind sun begin	-4908 Dec 23 j 00:37	26°M44'26	0 00 17	direct	-4902 Jul 09 j 19.37 -4902 Sep 26 j 12:00	9 x ·03 32 7° x ⁷ 39'04	20.74/9/ AU
-							
behind sun end	-4908 Dec 23 j 13:02	26°M45'35	21 00100 417	evening set	-4902 Dec 21 j 12:34	9° ∡ 31'16	
max. Earth dist.	-4908 Dec 24 j 06:52		31.00190 AU		1001 5		
morning rise	-4907 Jan 07 j 23:02	27°M20'20		conjunction	-4901 Jan 06 j 04:09	10° ₹ 06'26	
desc. node	-4907 Jan 26 j 22:30	28°M00'19		minimum elong	-4901 Jan 06 j 04:09	10° ∡ ¹06′26	
retrograde	-4907 Apr 09 j 05:17	29°M18'51		max. Earth dist.	-4901 Jan 07 j 04:27		30.94247 AU
min. Earth dist.	-4907 Jun 28 j 06:41	27°M55'27	28.99836 AU	morning rise	-4901 Jan 21 j 23:53	10° ∡ ′41'59	
opposition	-4907 Jun 29 j 05:37	27°M53'52	-0°02'23	retrograde	-4901 Apr 23 j 13:44	12° х 40′48	
direct	-4907 Sep 15 j 05:28	26°M31'15		min. Earth dist.	-4901 Jul 12 j 08:35	11° √ 17'09	28.93799 AU

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Attention, astronomical year style is used: The year -4901 in astronomical counting style is the year 4902 BCE in historical counting style.

7 tttention, astronomic	ai yeai siyn	o is used. The	year 47011	ii astronomicai (
opposition	-4901 Jul	13 j 08:13	11° ∡ 15′30	-0°36'07
direct	-4901 Sep	28 j 23:09	9° ∡ ¹52'38	
evening set	-4901 Dec	23 j 23:45	11° ∡¹ 44'52	
conjunction	-4900 Jan	08 j 15:56	12° ∡ ¹20′04	-0°36'17
minimum elong	-4900 Jan	08 j 15:56	12° ∡ ¹20′04	0°36'32
max. Earth dist.	-4900 Jan	09 j 17:48	12° ∡ ¹22'30	30.93289 AU
morning rise	-4900 Jan	24 j 11:58	12° ∡ ′55'39	
retrograde	-4900 Apr	25 j 02:31	14° ∡ ′54'31	
opposition	-4900 Jul	14 j 20:25	13° ∡ ¹29'10	-0°41'36
min. Earth dist.	-4900 Jul	13 j 20:09	13° ∡ ³30′51	28.92900 AU
direct	-4900 Sep	30 j 12:04	12° ∡ ¹06′17	
evening set	-4900 Dec	25 j 11:16	13° ∡ 58'32	
conjunction	-4899 Jan	10 j 03:48	14° ∡ ³33'46	-0°41'23
minimum elong	-4899 Jan	10 j 03:47	14° ∡ ³33'46	0°41'37
max. Earth dist.	-4899 Jan	11 j 05:03	14° ∡ ³36′09	30.92457 AU
morning rise	-4899 Jan	26 j 00:28	15° х 09′23	
retrograde	-4899 Apr	27 j 16:26	17° ∡ *08′18	
min. Earth dist.	-4899 Jul	16 j 07:58	15° ∡ ¹44'38	28.92141 AU
opposition	-4899 Jul	17 j 08:34	15° ∡ ¹42'56	-0°47'01
direct	-4899 Oct	02 j 22:23	14° ∡ °20′01	

-4899 Dec 27 j 22:49 16°**尽** 12'18

evening set