Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9400 in astronomical counting style is the year 9401 BCE in historical counting style. -9400 Jan 09 j 01:38 19°**≈**38'16 conjunction -9394 May 01 j 07:52 29°**≈**48'16 2°53'46 direct 29°≈48'16 2°53'26 -9400 Apr 06 j 01:58 -9394 May 01 j 07:46 21°≈00'56 minimum elong evening set -9400 Apr 18 j 22:25 -9394 May 08 j 04:05 0°**₩** max. Earth dist. 21°≈21'46 40.87002 AU 0°**)** 14′54 -9394 May 16 j 23:07 morning rise -9394 Aug 10 j 01:55 1°**)** 39'49 conjunction -9400 Apr 22 j 04:48 21°≈27'08 0°25'51 retrograde -9400 Apr 22 j 04:47 -9394 Oct 27 j 19:38 minimum elong 21°≈27′08 0°25'27 opposition 0° **★**31'32 3°16'12 -9400 May 08 j 04:18 21°≈53'08 morning rise min. Earth dist. -9394 Oct 31 j 00:48 0°**¥**27'09 37.23897 AU retrograde -9400 Jul 31 j 19:57 23°≈13'40 -9394 Nov 20 j 18:26 30°R≈ 0°39'30 opposition -9400 Oct 19 j 00:38 22°**≈**07'18 direct -9393 Jan 18 j 05:52 29°≈20'12 min. Earth dist. -9400 Oct 21 j 23:52 22°≈03'23 38.74809 AU -9393 Mar 16 j 10:23 0°**)**€ direct -9399 Jan 09 j 13:53 20°≈58'11 evening set -9393 Apr 17 j 09:32 0°**)**(48'41 evening set -9399 Apr 07 j 18:01 22°≈21'35 max. Earth dist. -9393 Apr 29 j 13:11 1°**₭**09'28 39.10661 AU max. Earth dist. -9399 Apr 20 j 11:47 22°≈42'23 40.62571 AU conjunction -9393 May 03 j 01:58 1°**¥**15'35 3°19'17 conjunction -9399 Apr 23 j 20:06 22°**≈**47'55 0°49'51 minimum elong -9393 May 03 j 01:51 1°**)** 15'34 3°18'56 minimum elong -9399 Apr 23 j 20:04 22°**≈**47'55 0°49'27 morning rise -9393 May 18 j 14:36 1°**)** 42′16 morning rise -9399 May 09 j 19:03 23°≈14'05 retrograde -9393 Aug 11 j 19:20 3°\circ\t08'03 retrograde -9399 Aug 02 j 13:34 24°≈35'16 opposition -9393 Oct 29 j 12:23 1°**¥**59'24 3°43'15 opposition -9399 Oct 20 j 14:38 23°**≈**28'37 1°04'54 min. Earth dist. -9393 Nov 01 j 17:53 1°**¥**54'58 36.98109 AU min. Earth dist. -9399 Oct 23 j 15:04 23°≈24'37 38.50290 AU direct -9392 Jan 19 j 21:52 0°**)**47'39 direct -9398 Jan 11 j 01:13 22°≈19′11 evening set -9392 Apr 18 j 06:57 2°**升**17'08 -9398 Apr 09 i 10:42 23°≈43'21 max. Earth dist. -9392 Apr 30 j 06:25 2°**升**37'48 38.84766 AU evening set max. Earth dist. -9398 Apr 22 j 03:30 24°≈04'14 40.37891 AU conjunction -9392 May 03 j 20:24 2°\(\)44'03 3°44'59 -9398 Apr 25 j 12:04 24°≈09'49 1°14'07 -9392 May 03 j 20:16 2°\(\)44'02 3°44'41 conjunction minimum elong -9398 Apr 25 j 12:02 24°≈09'49 -9392 May 19 j 06:20 3°**¥**10'45 1°13'44 morning rise minimum elong -9398 May 11 j 09:56 -9392 Aug 12 j 16:18 4° # 37'28 24°≈36'06 retrograde morning rise -9398 Aug 04 j 06:31 -9392 Oct 30 j 05:42 25°≈57'59 3°\ 28'26 4°10'33 retrograde opposition -9398 Oct 22 j 05:08 min. Earth dist. -9392 Nov 02 j 11:20 24°≈51'02 1°30'35 3°**₭**23'59 36.72318 AU opposition -9398 Oct 25 j 06:50 -9391 Jan 20 j 13:57 24°≈46'57 38.25507 AU direct 2°\ 16'17 min. Earth dist. -9397 Jan 12 j 15:53 23°**≈**41'16 -9391 Apr 20 j 04:56 3°\ 46'49 direct evening set -9391 May 02 j 01:26 25°≈06'13 4°**升**07'27 38.58866 AU -9397 Apr 11 j 04:14 evening set max. Earth dist. -9397 Apr 23 j 18:21 25°≈27'05 40.12941 AU max. Earth dist. -9391 May 05 j 15:18 conjunction 4°**升**13'44 4°10'34 -9397 Apr 27 j 04:20 -9391 May 05 j 15:09 conjunction 25°≈32'49 1°38'39 minimum elong 4°**)** 40′26 -9391 May 20 j 21:51 minimum elong -9397 Apr 27 j 04:17 25°**≈**32'49 1°38'16 morning rise 6°**₩**08'09 morning rise -9397 May 13 j 01:08 25°**≈**59'13 retrograde -9391 Aug 14 j 12:08 -9397 Aug 06 j 00:58 27°≈21'48 -9391 Oct 31 j 23:44 4°**)** 58'45 4°38'02 retrograde opposition -9397 Oct 23 j 20:01 26°≈14'33 1°56'34 min. Earth dist. -9391 Nov 04 j 06:14 4°**升**54'13 36.46566 AU opposition -9397 Oct 26 j 21:58 26°≈10'25 38.00452 AU -9390 Jan 22 j 08:30 3°**)** 46′12 min. Earth dist. direct -9396 Jan 14 j 07:28 25°≈04'25 -9390 Apr 22 j 03:59 5°\ 17'52 direct evening set -9396 Apr 11 j 22:30 26°≈30'12 -9390 May 03 j 20:52 5°¥38'25 38.33040 AU evening set max. Earth dist. -9396 Apr 24 j 09:53 26°≈51'02 39.87690 AU max. Earth dist. -9390 May 07 j 10:42 5°**)**(44'46 4°36'57 conjunction -9396 Apr 27 j 21:12 26°≈56'54 2°03'27 -9390 May 07 j 10:31 5°\ 44'45 4°36'40 conjunction minimum elong -9390 May 22 i 13:46 6°**)** 11′26 minimum elong -9396 Apr 27 j 21:08 26°≈56'54 2°03'06 morning rise morning rise -9396 May 13 j 16:21 27°≈23'24 retrograde -9390 Aug 16 i 08:46 7°**)**(40'11 retrograde -9396 Aug 06 i 16:38 28°≈46'43 opposition -9390 Nov 02 j 18:02 6°\;\;30'26 5°05'43 -9396 Oct 24 j 11:28 27°≈39'08 2°22'51 min. Earth dist. -9390 Nov 05 i 23:43 6°¥25'55 36.20911 AU opposition min. Earth dist. -9396 Oct 27 j 15:25 27°≈34'53 37.75128 AU direct -9389 Jan 24 i 03:39 5°**₩**17'30 -9395 Jan 14 j 23:09 26°≈28'37 -9389 Apr 24 j 03:55 6°\ 50'21 direct evening set evening set max. Earth dist. -9389 May 05 j 16:02 7°**升**10'44 38.07288 AU -9395 Apr 13 j 17:31 27°≈55'16 -9395 Apr 26 j 02:59 max. Earth dist. 28°≈16'07 39.62196 AU conjunction -9389 May 09 j 06:43 7°**¥**17'13 5°03'11 conjunction -9395 Apr 29 j 14:27 28°≈22'03 2°28'30 minimum elong -9389 May 09 j 06:32 7°**)** 17'12 5°02'53 7°**)**€43'50 -9395 Apr 29 j 14:21 28°≈22'02 2°28'08 morning rise -9389 May 24 j 05:47 minimum elong -9395 May 15 j 07:46 28°≈48'37 -9389 Aug 18 j 04:07 9° **★**13'42 morning rise retrograde -9395 Jul 08 j 12:55 0°**∀** -9389 Nov 04 j 13:07 8°**¥**03'37 5°33'34 opposition -9395 Aug 08 j 07:49 0°**)** 12'43 7°**升**59'00 35.95342 AU retrograde min. Earth dist. -9389 Nov 07 j 20:04 -9388 Jan 25 j 21:11 -9395 Sep 08 j 12:36 30°R≈ direct 6°**¥**50′17 opposition -9395 Oct 26 j 03:20 29°≈04'48 2°49'24 evening set -9388 Apr 25 j 04:53 8°**)** 24'25 min. Earth dist. -9395 Oct 29 j 07:08 29°≈00'31 37.49588 AU max. Earth dist. -9388 May 06 j 13:31 8°**¥**44'43 37.81605 AU direct -9394 Jan 16 j 16:09 27°≈53'53 evening set -9394 Apr 15 j 13:08 29°≈21'24 conjunction -9388 May 10 j 03:20 8°**X**51'12 5°29'32 max. Earth dist. -9394 Apr 27 j 18:34 29°≈42'09 39.36497 AU minimum elong -9388 May 10 j 03:07 8°**¥**51'11 5°29'16

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9388 in astronomical counting style is the year 9389 BCE in historical counting style. morning rise -9388 May 24 j 21:57 9°**)** 17'44 conjunction -9381 May 22 j 20:50 20°**)** 34'38 8°35'59 -9388 Aug 18 j 23:40 10°**¥**48'47 -9381 May 22 j 20:31 20°**¥**34'36 minimum elong 8°35'49 retrograde 9°**升**38'22 6°01'35 -9388 Nov 05 j 08:47 -9381 Jun 04 j 19:56 20°¥59'34 opposition morning rise 9°**)** 33'44 35.69830 AU -9381 Sep 01 j 00:35 22°**)**(40'32 min. Earth dist. -9388 Nov 08 j 15:19 retrograde 8°**)** 24'40 -9381 Nov 17 j 21:41 21°**)**€27'17 direct -9387 Jan 26 j 16:15 opposition 9°20'00 -9381 Nov 21 j 06:12 evening set -9387 Apr 27 j 07:00 10°**₩**00'06 min. Earth dist. 21°**₭**22'20 33.91395 AU max. Earth dist. -9387 May 08 j 09:17 10°**米**20′09 37.55950 AU direct -9380 Feb 07 j 22:19 20°**升**10′28 evening set -9380 May 11 j 04:12 21°**X**56'51 conjunction -9387 May 12 j 00:29 10°**¥**26'47 5°56'00 max. Earth dist. -9380 May 20 j 06:15 22°**X**14'26 35.76169 AU minimum elong -9387 May 12 j 00:16 10°**¥**26'46 5°55'44 morning rise -9387 May 26 j 14:25 10°**)** 53′13 conjunction -9380 May 23 j 22:18 22°\dagger21'36 9°02'31 -9380 May 23 j 21:56 retrograde -9387 Aug 20 j 23:00 12°**¥**25'31 minimum elong 22°**)** 21'34 9°02'23 -9380 Jun 05 j 13:14 opposition -9387 Nov 07 j 05:08 11°\dagger 14'44 6°29'43 morning rise 22°**)** 46'08 min. Earth dist. -9387 Nov 10 j 12:24 11°**升**10′03 35.44351 AU retrograde -9380 Sep 02 j 03:42 24°**)** 28'47 direct -9386 Jan 28 j 08:22 10°**)**€00'39 opposition -9380 Nov 18 j 22:55 23°**)** 15′04 9°48'15 evening set -9386 Apr 29 j 09:52 11°**)** 37'28 min. Earth dist. -9380 Nov 22 j 07:26 23°**升**10′05 33.66324 AU max. Earth dist. -9386 May 10 j 07:39 11°**¥**57′21 37.30278 AU direct -9379 Feb 08 j 20:48 21°**)** 57'46 evening set -9379 May 13 j 15:19 23°\ 45'59 conjunction -9386 May 13 j 22:16 12°\ 04'00 6°22'34 max. Earth dist. -9379 May 22 j 10:01 24° ¥ 03'09 35.50974 AU minimum elong -9386 May 13 j 22:01 12°**)**€03'59 6°22'20 morning rise -9386 May 28 j 06:48 12°**)** € 30'18 conjunction -9379 May 26 j 00:33 24°\ 10'16 9°28'55 retrograde -9386 Aug 22 j 21:20 14°**)**€03'55 minimum elong -9379 May 26 i 00:12 24°**)** 10′14 9°28'47 opposition -9386 Nov 09 i 02:14 12°**)** 52'46 6°57'59 morning rise -9379 Jun 07 i 06:26 24° **)** 34'19 min. Earth dist. -9386 Nov 12 j 10:03 12°\(\pm\)48'01 35.18840 AU retrograde -9379 Sep 04 i 05:52 26°**)** 18'45 -9385 Jan 30 j 04:09 11°**)** 38'16 -9379 Nov 21 i 01:05 25°**)**(04'34 10°16'20 direct opposition -9385 May 01 j 14:12 13°**¥**16′32 -9379 Nov 24 j 09:09 min. Earth dist. 24° **€** 59'35 33.41567 AU evening set -9385 May 12 j 05:08 13°**)** € 36'06 37.04567 AU -9378 Feb 10 j 21:31 23°\ 46'48 max. Earth dist. direct -9378 May 16 j 03:46 25° ¥ 36'57 evening set -9385 May 15 j 20:41 13°**)** 42′53 6°49′13 -9378 May 24 j 12:52 max. Earth dist. 25°**)** 53'31 35.26135 AU conjunction -9385 May 15 j 20:26 13°**)** 42′52 6°48′59 minimum elong 14°**)**€09'00 -9385 May 29 j 23:41 -9378 May 28 j 03:14 26°**¥**00'41 9°55'05 conjunction morning rise -9385 Aug 24 j 23:10 minimum elong -9378 May 28 j 02:51 15°**)** 43′58 26°**∺**00'39 9°54'59 retrograde -9378 Jun 08 j 23:47 -9385 Nov 10 j 23:47 14° **★** 32'26 7°26'20 26°**∺**24'12 opposition morning rise -9385 Nov 14 j 07:33 -9378 Sep 06 j 11:45 28° **₭** 10'31 min. Earth dist. 14°**₭**27'40 34.93300 AU retrograde -9384 Feb 01 j 01:24 -9378 Nov 23 j 03:51 direct 13°**∺** 17'30 opposition 26°**¥**55'53 10°44'11 -9378 Nov 26 j 10:40 evening set -9384 May 02 j 19:32 14°**)** 57'16 min. Earth dist. 26°**₭**50'57 33.17198 AU max. Earth dist. -9384 May 13 j 04:03 15°**₭**16'32 36.78797 AU direct -9377 Feb 12 j 22:20 25°**)** 37′40 evening set -9377 May 18 j 17:34 27°**¥**29′52 conjunction -9384 May 16 j 19:56 15°**¥**23'24 7°15'55 max. Earth dist. -9377 May 26 j 17:32 27° ¥45'50 35.01673 AU -9384 May 16 j 19:39 15°**¥**23'23 7°15'42 minimum elong -9384 May 30 j 16:37 15°**)** 49'17 conjunction -9377 May 30 j 06:55 27°**¥**52'59 10°21'00 morning rise -9384 Aug 26 j 00:17 17°**)** 25'40 -9377 May 30 j 06:32 27°**)** 52'57 retrograde minimum elong 10°20'54 -9384 Nov 11 j 22:21 16°**)** 13'44 7°54'45 -9377 Jun 10 j 17:13 28°**升**15'54 opposition morning rise -9384 Nov 15 j 07:24 16°**₭**08'51 34.67728 AU -9377 Aug 23 j 09:30  $0^{\circ}\Upsilon$ min. Earth dist. -9383 Feb 01 j 23:28 14°**¥**58′21 -9377 Sep 08 j 16:41 0°Y04'11 direct retrograde evening set -9383 May 05 i 01:57 16°**)** 39'41 -9377 Sep 25 i 03:53 30°R**)**€ max. Earth dist. -9383 May 15 i 03:52 16°**)** €58'37 36.53020 AU opposition -9377 Nov 25 i 07:31 28°**)**(49'09 11°11'45 min. Earth dist. -9377 Nov 28 i 14:38 28°\(\dagger44'10\) 32.93228 AU conjunction -9383 May 18 j 19:31 17°**)** € 05'32 7°42'38 direct -9376 Feb 14 i 23:54 27°**)** 30'29 -9383 May 18 i 19:14 17°**¥**05'31 7°42'26 evening set -9376 May 20 j 09:00 29° **H** 24'49 minimum elong -9383 Jun 01 j 09:35 17°**H**31'09 max. Earth dist. -9376 May 27 j 23:06 29° **)** 40'09 34.77627 AU morning rise -9383 Aug 28 j 00:14 19°**)** 09'00 retrograde -9383 Nov 13 j 21:26 17°**¥**56'38 8°23'12 -9376 May 31 j 11:15 29°**)** 47'16 10°46'36 opposition conjunction min. Earth dist. -9383 Nov 17 j 05:38 17°**)** 51'47 34.42179 AU minimum elong -9376 May 31 j 10:51 29°**)**(47'14 10°46'31  $0^{\circ}\Upsilon$ -9382 Feb 03 j 23:27 16°**)** 40′48 -9376 Jun 06 j 17:31 direct -9376 Jun 11 j 10:45 -9382 May 07 j 09:30 18°**¥**23'44 morning rise 0°Y09'31 evening set 18°**¥**42'13 36.27270 AU max. Earth dist. -9382 May 17 j 03:16 -9376 Sep 09 j 23:41 1°Y59'53 retrograde -9376 Nov 26 j 12:06 0°**Υ**44'26 11°39'00 opposition -9382 May 20 j 19:51 18°**)**49'17 8°09'20 -9376 Nov 29 j 17:30 0°**Υ**39'31 32.69670 AU conjunction min. Earth dist. -9382 May 20 j 19:32 -9376 Dec 27 j 11:57 minimum elong 18°**)** 49'15 8°09'09 30°**₹** 19°**)** 14'35 29°\ 25'22 morning rise -9382 Jun 03 j 02:46 direct -9375 Feb 16 j 04:53  $0^{\circ}\Upsilon$ -9382 Aug 30 j 00:33 20°**¥**53'57 -9375 Apr 06 j 10:23 retrograde opposition -9382 Nov 15 j 21:09 19°**)**41'09 8°51'37 evening set -9375 May 23 j 01:40 1°**Υ**21'56 min. Earth dist. -9382 Nov 19 j 06:25 19°**₭**36'11 34.16714 AU max. Earth dist. -9375 May 30 j 04:18 1°**Y**36′28 34.53958 AU direct -9381 Feb 05 j 22:05 18°**)** 24'50 -9381 May 09 j 18:14 20°**₩**09'27 -9375 Jun 02 j 16:17 1°Υ43'38 11°11'50 evening set conjunction

-9381 May 19 j 05:30

max. Earth dist.

20°**升**27'35 36.01630 AU

-9375 Jun 02 j 15:53

minimum elong

1°Υ43'36 11°11'47

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9375 in astronomical counting style is the year 9376 BCE in historical counting style. 2°**Υ**05'08 -9375 Jun 13 i 04:15 conjunction -9368 Jun 17 i 02:25 16°**Y**17'38 13°53'46 morning rise -9375 Sep 12 j 07:34 3°Y57'41 -9368 Jun 17 j 01:58 16°**Y**17'36 minimum elong 13°53'52 retrograde -9375 Nov 28 j 17:38 2°**Y**41'50 12°05'51 -9368 Jun 23 j 00:17 16°**Y**30'39 opposition morning rise -9375 Dec 01 j 23:24 2°**Υ**36'52 32.46494 AU -9368 Sep 27 j 05:16 18°**Y**41′50 min. Earth dist. retrograde 14°57'41 1°**Y**22′22 -9368 Dec 13 j 09:41 17°**Y**23′00 direct -9374 Feb 18 j 08:31 opposition 17°**Y**18'16 30.94695 AU 3°Y21'17 -9368 Dec 16 j 09:08 evening set -9374 May 25 j 20:10 min. Earth dist. 16°**Y**′00′35 max. Earth dist. -9374 Jun 01 j 12:03 3°**Y**35′02 34.30654 AU direct -9367 Mar 04 j 11:06 18°**Y**19'34 evening set -9367 Jun 14 j 13:29 18°**Y**′23'51 32.78218 AU 3°**Y**42'09 conjunction -9374 Jun 04 j 22:15 11°36'40 max. Earth dist. -9367 Jun 16 j 11:53 minimum elong -9374 Jun 04 j 21:49 3°**Y**42'06 11°36'38 morning rise -9374 Jun 14 j 21:45 4°Υ02'48 conjunction -9367 Jun 19 j 13:31 18°**Y**30'40 14°13'55 5°**Y**57'38 -9367 Jun 19 j 13:06  $18^{\circ}\mathbf{\Upsilon}30^{\shortmid}38$ retrograde -9374 Sep 14 j 14:11 minimum elong 14°14'03 -9367 Jun 24 j 12:20 opposition -9374 Nov 30 j 23:54 4°**Υ**41'23 12°32'15 morning rise 18°**Y**41'41 min. Earth dist. -9374 Dec 04 j 04:17 4°Υ36'29 32.23663 AU retrograde -9367 Sep 29 j 19:17 20°Y56'17 direct -9373 Feb 20 j 14:21 3°Y21'31 opposition -9367 Dec 15 j 22:27 19°**Ƴ**37'01 15°18'57 evening set -9373 May 28 j 16:21 5°Y22'54 min. Earth dist. -9367 Dec 18 j 19:07 19°**Y**32'26 30.75073 AU max. Earth dist. -9373 Jun 03 j 18:30 5°**Υ**35'36 34.07679 AU direct -9366 Mar 07 j 00:07 18°**Y**14'13 evening set -9366 Jun 18 j 05:15 20°Y37'05 conjunction -9373 Jun 07 j 05:00 5°**Y**42'48 12°01'03 max. Earth dist. -9366 Jun 19 j 01:04 20°Υ38'56 32.58658 AU minimum elong -9373 Jun 07 j 04:34 5°**Y**42'46 12°01'02 morning rise -9373 Jun 16 j 15:25 6°**Y**02'32 conjunction -9366 Jun 22 j 01:29 20°**Y**'45'42 14°33'04 retrograde -9373 Sep 16 j 22:39 7°**Y**59'45 minimum elong -9366 Jun 22 i 01:03 20°**℃**45'39 14°33'12 opposition -9373 Dec 03 i 07:14 6°**Y**43′06 12°58'10 morning rise -9366 Jun 25 i 20:37 20°Y54'13 min. Earth dist. -9373 Dec 06 j 11:32 6°**Y**38'11 32.01171 AU retrograde -9366 Oct 02 i 10:52 23°Y12'43 -9372 Feb 22 j 18:32 5°**Y**22'49 opposition -9366 Dec 18 j 12:02 21°Υ53'02 15°39'06 direct -9372 May 30 j 14:17 7°**Y**26'45 -9366 Dec 21 j 07:37 21°Υ48'30 30.56203 AU min. Earth dist. evening set -9372 Jun 05 j 04:04 7°Υ38'30 33.85030 AU -9365 Mar 09 j 11:52 20°**Y**29′52 max. Earth dist. direct -9365 Jun 22 j 09:21 22°**Y**57'44 evening set -9372 Jun 08 j 12:36 7°**Y**'45'37 12°24'55 -9365 Jun 21 j 17:07 22°Υ56'12 32.39894 AU conjunction max. Earth dist. -9372 Jun 08 j 12:09 7°**Υ**45'34 12°24'55 minimum elong 23°**Y**02'44 14°51'07 -9372 Jun 17 j 08:39 8°**Y**04'17 -9365 Jun 24 j 14:17 conjunction morning rise -9365 Jun 24 j 13:53 -9372 Sep 18 j 06:23 10°**℃**04'02 minimum elong 23°**Y**'02'41 14°51'16 retrograde -9365 Jun 26 j 18:22 -9372 Dec 04 j 15:37 23°**Y**07'38 8°**Y**46′57 13°23′31 opposition morning rise 8°**Υ**42'03 31.79004 AU -9372 Dec 07 j 19:07 -9365 Oct 05 j 00:37 25°**Y**31′08 min. Earth dist. retrograde -9371 Feb 24 j 00:45 7°**Υ**26'15 -9365 Dec 21 j 02:39 24°Υ11'05 15°58'03 direct opposition 24°Υ06'42 30.38120 AU -9371 Jun 02 j 14:10 9°Y32'52 -9365 Dec 23 j 19:29 evening set min. Earth dist. -9371 Jun 07 j 12:26 -9364 Mar 11 j 01:50 22°**Y**47'35 max. Earth dist. 9°**Y**43'22 33.62737 AU direct max. Earth dist. -9364 Jun 23 j 07:46 25°Υ15'20 32.21952 AU conjunction -9371 Jun 10 j 20:54 9°**Υ**'50'32 12°48'11 25°**Y**21'47 15°07'59 -9371 Jun 10 j 20:28 9°Y50'30 12°48'13 conjunction -9364 Jun 26 j 03:35 minimum elong morning rise -9371 Jun 19 j 01:45 10°**Y**08′03 minimum elong -9364 Jun 26 j 03:10 25°**Y**21'45 15°08'10 -9371 Sep 20 j 17:40 12°**Y**10'25 -9364 Oct 06 j 16:44 27°**Y**51'35 retrograde retrograde -9371 Dec 07 j 00:42 10°Υ52'55 13°48'14 -9364 Dec 22 j 18:12 26°Υ31'11 16°15'41 opposition opposition -9371 Dec 10 j 03:01 10°**Y**48'04 31.57225 AU min. Earth dist. -9364 Dec 25 j 09:12 26°Υ26'54 30.20866 AU min. Earth dist. -9370 Feb 26 j 06:31 9°**Υ**31'46 -9363 Mar 13 j 14:15 25°**Y**07′22 direct direct 27°**Υ**36'44 32.04844 AU evening set -9370 Jun 05 i 15:56 max. Earth dist. -9363 Jun 26 i 01:38 -9370 Jun 09 j 23:13 max. Earth dist. 11°**Υ**50'27 33.40835 AU -9363 Jun 28 i 17:51 27°**Y**'42'54 15°23'36 conjunction -9370 Jun 13 j 06:02 11°**Y**'57'32 13°10'49 27°**Ƴ**42'52 conjunction minimum elong -9363 Jun 28 i 17:29 15°23'48 -9370 Jun 13 i 05:34 11°Υ57'30 13°10'52 -9363 Sep 10 i 21:50 0°8 minimum elong -9370 Jun 20 i 18:13 12°**Y**13'45 -9363 Oct 09 j 08:15 0°814'02 morning rise retrograde -9370 Sep 23 j 03:49 14°**Y**18′52 -9363 Nov 07 j 11:45 30°RY retrograde -9370 Dec 09 j 10:51 13°**Y**'00'56 14°12'14 opposition -9363 Dec 25 j 10:37 28°**Y**53'18 16°31'58 opposition 12°**Υ**'56'04 31.35855 AU 28°**Y**49′09 30.04415 AU -9370 Dec 12 j 12:48 min. Earth dist. min. Earth dist. -9363 Dec 27 j 23:32 11° **Y**39'22 27° **Y**29'14 -9369 Feb 28 j 15:17 direct -9362 Mar 16 j 04:27 direct 13°Y51'45 -9362 Jun 28 j 18:27 -9369 Jun 08 j 20:12 0°8 evening set -9369 Jun 12 j 10:09 13°**Y**′59′32 33.19396 AU max. Earth dist. max. Earth dist. -9362 Jun 28 j 17:49 29°**Y**59'56 31.88558 AU 14°**Y**06'35 13°32'42 -9369 Jun 15 j 15:48 -9362 Jul 01 j 08:35 0°**8**06'01 15°37'54 conjunction conjunction -9369 Jun 15 j 15:22 14°**Y**06′33 -9362 Jul 01 j 08:13 0°**8**05'59 minimum elong 13°32'47 minimum elong 15°38'08 14°**Υ**21'19 -9362 Oct 12 j 02:32 2°**8**38'28 morning rise -9369 Jun 22 j 09:51 retrograde -9369 Sep 25 j 16:56 16°**Y**29′21 -9362 Dec 28 j 03:50 1°**8**17'25 16°46'47 retrograde opposition opposition -9369 Dec 11 j 21:40 15°**Υ**10'58 14°35'25 min. Earth dist. -9362 Dec 30 j 14:13 1°**8**13'26 29.88758 AU min. Earth dist. -9369 Dec 14 j 21:33 15°**Y**06′13 31.14985 AU -9361 Feb 25 j 22:41 30°**Ŗ**♈ 29°Y53'05 direct -9368 Mar 02 j 01:33 13°**Y**48′58 direct -9361 Mar 18 j 18:40 -9368 Jun 11 j 03:03 16°**Y**04'31 -9361 Apr 08 j 07:40 0°8 evening set -9368 Jun 13 j 22:15 16°**Υ**10'39 32.98486 AU max. Earth dist. -9361 Jul 01 j 12:40 2°825'16 31.73054 AU max. Earth dist.

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	nical year style is used: Th	-					20 000 45 444
conjunction	-9361 Jul 04 j 00:15		15°50'48	max. Earth dist.	-9353 Jul 22 j 11:17	22° <b>8</b> 40'46	30.80047 AU
minimum elong	-9361 Jul 03 j 23:56	2° <b>8</b> 31'02	15°51'03				
retrograde	-9361 Oct 14 j 18:36	5° <b>8</b> 04'47		conjunction	-9353 Jul 23 j 23:16	22° <b>8</b> 44'25	16°35'58
opposition	-9361 Dec 30 j 22:07	3° <b>8</b> 43'26		minimum elong	-9353 Jul 23 j 23:13	22° <b>8</b> 44'25	16°36'22
min. Earth dist.	-9360 Jan 02 j 06:56	3° <b>8</b> 39'32	29.73855 AU	retrograde	-9353 Nov 04 j 14:23	25° <b>8</b> 25'22	
direct	-9360 Mar 20 j 10:42	2° <b>8</b> 18'52		opposition	-9352 Jan 21 j 00:04	24° <b>8</b> 01'53	17°42'58
max. Earth dist.	-9360 Jul 03 j 06:50	4° <b>8</b> 52'18	31.58346 AU	min. Earth dist.	-9352 Jan 22 j 09:09	23° <b>8</b> 59'34	28.85368 AU
				direct	-9352 Apr 10 j 01:05	22° <b>8</b> 35'59	
conjunction	-9360 Jul 05 j 16:28	4° <b>8</b> 57'57	16°02'15	max. Earth dist.	-9352 Jul 24 j 11:36	25° <b>8</b> 17'23	30.73147 AU
minimum elong	-9360 Jul 05 j 16:08	4° <b>8</b> 57'55	16°02'31		,		
retrograde	-9360 Oct 16 j 14:20	7° <b>8</b> 32'51		conjunction	-9352 Jul 25 i 18:42	25° <b>8</b> 20'33	16°33'24
opposition	-9359 Jan 01 j 17:09		17°11'49	minimum elong	-9352 Jul 25 j 18:41	25° <b>8</b> 20'33	16°33'50
min. Earth dist.	-9359 Jan 03 j 22:44		29.59724 AU	retrograde	-9352 Nov 06 j 11:15	28° <b>8</b> 02'01	10 33 30
	·	4° <b>8</b> 46'24	29.39124 AU	opposition			17920121
direct	-9359 Mar 23 j 03:26	_	21 44410 411		-9351 Jan 22 j 23:32	26° <b>8</b> 38'24	
max. Earth dist.	-9359 Jul 06 j 02:32	/ 621 06	31.44419 AU	min. Earth dist.	-9351 Jan 24 j 05:03		28.79007 AU
				direct	-9351 Apr 12 j 23:40	25° <b>8</b> 12'31	
conjunction	-9359 Jul 08 j 09:18		16°12'11	max. Earth dist.	-9351 Jul 27 j 09:47	27° <b>8</b> 54'26	30.67464 AU
minimum elong	-9359 Jul 08 j 09:02	7° <b>8</b> 26'30	16°12'28				
retrograde	-9359 Oct 19 j 08:41	10° <b>8</b> 02'33		conjunction	-9351 Jul 28 j 14:01	27° <b>8</b> 57'19	16°28'52
opposition	-9358 Jan 04 j 13:04	8° <b>8</b> 40'35	17°21'52	minimum elong	-9351 Jul 28 j 14:03	27° <b>8</b> 57'19	16°29'18
min. Earth dist.	-9358 Jan 06 j 17:18	8° <b>8</b> 36'59	29.46363 AU		-9351 Sep 23 j 04:14	$\Pi^{\circ}$ 0	
direct	-9358 Mar 25 j 20:13	7° <b>8</b> 15'33		retrograde	-9351 Nov 09 j 10:34	0° <b>Ⅲ</b> 39'13	
max. Earth dist.	-9358 Jul 08 j 22:42		31.31317 AU		-9351 Dec 29 j 01:33	30°R <b>∀</b>	
man zam usv.	9556 tur 00 j 22:12	y <b>0</b> 0120	31.31317110	opposition	-9350 Jan 25 j 23:08	29° <b>8</b> 15'31	17°33'37
conjunction	-9358 Jul 11 j 02:43	9° <b>8</b> 56'37	16°20'31	min. Earth dist.	-9350 Jan 27 j 00:25		28.73825 AU
·	,	9° <b>8</b> 56'35				27° <b>8</b> 49'40	20.73023 AU
minimum elong	-9358 Jul 11 j 02:27	_	16°20'49	direct	-9350 Apr 15 j 21:04	_	
retrograde	-9358 Oct 22 j 05:07	12° <b>8</b> 33'40	. =		-9350 Jul 17 j 05:18	0°II	
opposition	-9357 Jan 07 j 09:19	11° <b>8</b> 11'25		max. Earth dist.	-9350 Jul 30 j 10:10	0°Д32'11	30.62964 AU
min. Earth dist.	-9357 Jan 09 j 10:02		29.33807 AU				
direct	-9357 Mar 28 j 16:51	9° <b>8</b> 46'10		conjunction	-9350 Jul 31 j 09:44	0° <b>Ⅱ</b> 34'36	16°22'23
max. Earth dist.	-9357 Jul 11 j 19:07	12° <b>8</b> 23'07	31.19060 AU	minimum elong	-9350 Jul 31 j 09:48	0° <b>Ⅱ</b> 34'37	16°22'52
				retrograde	-9350 Nov 12 j 06:23	3° <b>Ⅱ</b> 16'49	
conjunction	-9357 Jul 13 j 20:40	12° <b>8</b> 28'04	16°27'12	opposition	-9349 Jan 28 j 22:57	1° <b>Ⅱ</b> 53'05	17°25'46
minimum elong	-9357 Jul 13 j 20:28	12° <b>8</b> 28'03	16°27'31	min. Earth dist.	-9349 Jan 29 j 21:23	1° <b>Ⅱ</b> 51'31	28.69771 AU
Č	-9357 Oct 06 j 15:31	15° <b>8</b>		direct	-9349 Apr 18 j 19:26	0° <b>Ⅲ</b> 27′20	
retrograde	-9357 Oct 25 j 01:21	15° <b>8</b> 06'05		max. Earth dist.	-9349 Aug 02 j 08:49		30.59626 AU
remogrado	-9357 Nov 12 j 19:30	15°R8		man. Bartir diot.	95 19 114g 02 j 00.19	3 210 05	30.07020110
opposition	-9356 Jan 10 i 06:33	13° <b>8</b> 43'31	17°36'40	conjunction	-9349 Aug 03 j 05:21	3° <b>Ⅱ</b> 12'16	16°13'58
opposition	· · · · · · · · · · · · · · · · · · ·	_		,	0 3		
min. Earth dist.	-9356 Jan 12 j 05:31		29.22110 AU	minimum elong	-9349 Aug 03 j 05:28	3° <b>Ⅱ</b> 12'17	10-14-20
direct	-9356 Mar 30 j 11:50	12° <b>8</b> 18'05	21.05525.444	retrograde	-9349 Nov 15 j 05:03	5° <b>Ⅱ</b> 54'42	15015150
max. Earth dist.	-9356 Jul 13 j 17:02	14° <b>8</b> 56'07	31.07735 AU	opposition	-9348 Jan 31 j 22:58	4° <b>Ⅱ</b> 30'56	
				min. Earth dist.	-9348 Feb 01 j 16:54		28.66829 AU
conjunction	-9356 Jul 15 j 14:51	15° <b>8</b> 00'43	16°32'08	direct	-9348 Apr 20 j 17:37	3° <b>Ⅱ</b> 05'17	
minimum elong	-9356 Jul 15 j 14:39	15° <b>8</b> 00'42	16°32'30	max. Earth dist.	-9348 Aug 04 j 08:48	5° <b>Ⅱ</b> 48'27	30.57394 AU
	-9356 Jul 15 j 07:40	15° <b>8</b>					
retrograde	-9356 Oct 26 j 21:54	17° <b>8</b> 39'35		conjunction	-9348 Aug 05 j 01:02	5° <b>Ⅱ</b> 50'07	16°03'38
opposition	-9355 Jan 12 j 04:16	16° <b>8</b> 16'46	17°41'16	minimum elong	-9348 Aug 05 j 01:11	5° <b>Ⅱ</b> 50′08	16°04'08
min. Earth dist.	-9355 Jan 13 j 23:18	16° <b>8</b> 13'46	29.11337 AU	retrograde	-9348 Nov 17 j 01:59	8° <b>Ⅲ</b> 32'40	
	-9355 Mar 10 j 02:13	15°R <b>∀</b>		opposition	-9347 Feb 02 j 23:16	7° <b>Ⅱ</b> 08'53	17°03'51
direct	-9355 Apr 02 j 09:23	14° <b>8</b> 51'09		min. Earth dist.	-9347 Feb 03 j 14:41		28.64949 AU
	-9355 Apr 25 j 05:33	15° <b>8</b>		direct	-9347 Apr 23 j 14:47	5° <b>Ⅱ</b> 43'21	20.017.7110
max. Earth dist.	-9355 Jul 16 j 14:07		30.97399 AU	direct	-7547 Apr 25 j 14.47	3 11-321	
max. Earm dist.	-9333 Jul 10 J 14.07	17 03003	30.97399 AU	:	0247 A 07: 20:41	00₩2715.6	15051105
	0055 1 10:00 00	1501 10 110 5	1.002.511.0	conjunction	-9347 Aug 07 j 20:41	8° <b>Ⅱ</b> 27'56	
conjunction	-9355 Jul 18 j 09:23	17° <b>8</b> 34'25		minimum elong	-9347 Aug 07 j 20:53	8° <b>Ⅱ</b> 27'57	
minimum elong	-9355 Jul 18 j 09:16	17° <b>8</b> 34'24	16°35'40	max. Earth dist.	-9347 Aug 07 j 07:46		30.56253 AU
retrograde	-9355 Oct 29 j 19:49	20° <b>8</b> 14'04		retrograde	-9347 Nov 19 j 23:26	11° <b>Ⅱ</b> 10′28	
opposition	-9354 Jan 15 j 02:23	18° <b>8</b> 50'58	17°43'53	opposition	-9346 Feb 05 j 23:10	9° <b>Ⅱ</b> 46'42	
min. Earth dist.	-9354 Jan 16 j 18:53	18° <b>8</b> 48'09	29.01582 AU	min. Earth dist.	-9346 Feb 06 j 10:00		28.64108 AU
direct	-9354 Apr 05 j 05:39	17° <b>8</b> 25'13		direct	-9346 Apr 26 j 14:56	8° <b>Ⅲ</b> 21′17	
max. Earth dist.	-9354 Jul 19 j 13:32	20° <b>8</b> 05'05	30.88151 AU		-		
	,			conjunction	-9346 Aug 10 j 16:16	11° <b>Ⅱ</b> 05'31	15°37'22
conjunction	-9354 Jul 21 j 04:17	20° <b>8</b> 09'01	16°36'35	minimum elong	-9346 Aug 10 j 16:30	11° <b>Ⅱ</b> 05'32	
minimum elong	-9354 Jul 21 j 04:10	20° <b>8</b> 09'00	16°36'59	max. Earth dist.	-9346 Aug 10 j 06:54		30.56156 AU
retrograde	-9354 Nov 01 j 16:37	22° <b>8</b> 49'21	10 2007	retrograde	-9346 Nov 22 j 19:57	13° <b>Ⅱ</b> 47'55	20.20120110
•		21° <b>8</b> 26'02	17°44'28	•		13 <b>∏</b> 47 33 12° <b>∏</b> 24'09	16°33'53
opposition	-9353 Jan 18 j 01:02			opposition	-9345 Feb 08 j 23:15		
min. Earth dist.	-9353 Jan 19 j 13:40		28.92898 AU	min. Earth dist.	-9345 Feb 09 j 07:35		28.64287 AU
direct	-9353 Apr 08 j 04:28	20° <b>8</b> 00'11		direct	-9345 Apr 29 j 12:39	10° <b>Ⅱ</b> 58'53	

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9345 in astronomical counting style is the year 9346 BCE in historical counting style. -9345 Aug 13 i 11:31 13°**Ⅱ**42'36 15°21'30 -9338 Jul 19 j 12:30 0ಂತಾ conjunction -9345 Aug 13 j 11:46 13°**耳**42'38 15°22'02 -9338 Aug 22 j 13:41 1°9514'35 minimum elong evening set -9345 Aug 13 j 05:55 13°**Ц**42'02 30.57114 AU max. Earth dist. -9345 Nov 25 j 16:58 16°**Ⅲ**24'45 -9338 Aug 30 j 14:47 conjunction 1°933'47 12°44'58 retrograde -9344 Feb 11 j 23:03 15°**I**01'00 16°16'00 -9338 Aug 30 j 15:12 12°45'33 opposition minimum elong 1°533'49 -9344 Feb 12 j 02:49 min. Earth dist. 15°**Ⅱ**00'44 28.65482 AU max. Earth dist. -9338 Aug 31 j 11:19 1°**9**35'49 30.95305 AU direct -9344 May 01 j 12:14 13°**Ⅲ**35'53 morning rise -9338 Sep 07 j 16:46 1°953'02 retrograde -9338 Dec 13 j 06:47 4°9511'33 15°03'55 conjunction -9344 Aug 15 j 06:30 16°**Ⅱ**18'59 min. Earth dist. -9337 Mar 01 j 11:09 2°550'08 29.05283 AU 16°**Ⅱ**19'01 15°04'28 minimum elong -9344 Aug 15 j 06:47 opposition -9337 Mar 02 j 10:10 2°**5**48'34 13°22'28 max. Earth dist. -9344 Aug 15 j 04:05 16°**Ⅱ**18'45 30.59122 AU direct -9337 May 20 j 22:20 1°9525'14 -9344 Nov 27 j 13:38 retrograde 19°**Ⅲ**00'47 evening set -9337 Aug 24 j 11:53 3°5540'54 opposition -9343 Feb 13 j 22:40 17°**I**37′02 15°56′15 min. Earth dist. -9343 Feb 13 j 23:33 17°**Д**36'58 28.67737 AU conjunction -9337 Sep 02 j 06:19 4°9501'40 12°17'00 direct -9343 May 04 j 10:46 16°**Ⅲ**12'05 minimum elong -9337 Sep 02 j 06:42 4°9501'43 12°17'35 evening set -9343 Aug 15 j 06:31 18°**Ⅲ**47'41 max. Earth dist. -9337 Sep 03 j 07:18 4°9504'09 31.05405 AU morning rise -9337 Sep 11 j 01:30 4°9522'30 conjunction -9343 Aug 18 j 01:05 18°**Ⅲ**54′28 14°44'37 retrograde -9337 Dec 15 j 22:50 6°538'35 minimum elong -9343 Aug 18 j 01:24 18°**Ⅲ**54'29 14°45'09 min. Earth dist. -9336 Mar 03 j 04:47 5°9517'34 29.15530 AU max. Earth dist. -9343 Aug 18 j 03:08 18°**Д**54'40 30.62228 AU opposition -9336 Mar 04 j 06:20 5°9515'50 12°51'50 morning rise -9343 Aug 20 j 20:16 19°**Ⅱ**01'18 direct -9336 May 22 j 17:43 3°952'54 retrograde -9343 Nov 30 i 09:33 21°**Ⅱ**35'46 evening set -9336 Aug 25 j 11:11 6°95'58 opposition -9342 Feb 16 i 21:47 20°**Ⅱ**12'04 15°34'42 min. Earth dist. -9342 Feb 16 i 18:27 20°**I**12'18 28.71068 AU conjunction -9336 Sep 03 j 21:20 6°€28'08 11°47'57 -9342 May 07 j 11:01 18°**Ⅱ**47'17 -9336 Sep 03 j 21:45 6°528′11 11°48'32 direct minimum elong -9342 Aug 16 j 12:21 21°II18'26 max. Earth dist. -9336 Sep 05 j 01:09 6°530'53 31.16548 AU evening set -9336 Sep 13 j 08:25 morning rise 6°950'24 -9342 Aug 20 j 19:09 21°II28'50 14°23'41 -9336 Dec 17 j 14:58 9°904'07 conjunction retrograde -9342 Aug 20 j 19:29 21°**Ⅱ**28'53 -9335 Mar 05 j 19:41 14°24'14 min. Earth dist. 7°543'40 29.26779 AU minimum elong 21°**Ⅲ**29'21 30.66452 AU -9342 Aug 21 j 00:12 -9335 Mar 07 j 01:36 max. Earth dist. opposition 7°9541'39 12°20'05 -9342 Aug 25 j 02:36 -9335 May 25 j 12:55 21°**∏**39′20 direct 6°9519'06 morning rise -9335 Aug 27 j 10:53 -9342 Dec 03 j 05:20 24°∏09'35 8°929'40 retrograde evening set 22°**Ⅱ**45'56 -9341 Feb 19 j 20:26 15°11'24 opposition -9341 Feb 19 j 13:28 22°**Ц**46'25 28.75546 AU -9335 Sep 06 j 11:46 8°953'07 11°17'54 min. Earth dist. conjunction -9341 May 10 j 08:03 21°**Ⅲ**21'22 -9335 Sep 06 j 12:10 direct minimum elong 8°953'09 11°18'28 -9335 Sep 07 j 19:00 evening set -9341 Aug 18 j 02:32 23°**Ⅱ**48'52 max. Earth dist. 8°956'10 31.28635 AU -9335 Sep 16 j 13:40 morning rise 9°9516'40 conjunction -9341 Aug 23 j 12:54 24°**I**02'01 14°01'10 retrograde -9335 Dec 20 j 05:09 11°9528'07 -9341 Aug 23 j 13:16 24°**I**102'03 14°01'43 opposition -9334 Mar 09 j 20:23 10°905'55 11°47'20 minimum elong max. Earth dist. -9341 Aug 23 j 22:53 24°**Д**03'02 30.71861 AU min. Earth dist. -9334 Mar 08 j 12:19 10°508'05 29.38947 AU morning rise -9341 Aug 28 j 23:51 24°**Ⅲ**15'14 direct -9334 May 28 j 06:10 8°9543'46 -9341 Dec 06 j 00:04 26°II42'07 -9334 Aug 29 j 11:14 10°951'56 retrograde evening set -9340 Feb 22 j 18:46 25°II18'34 14°46'26 opposition -9340 Feb 22 j 07:50 25°**Ⅲ**19'19 28.81198 AU -9334 Sep 09 j 01:39 11°9516'31 10°46'58 min. Earth dist. conjunction -9340 May 12 j 07:43 23°**Ⅲ**54'15 -9334 Sep 09 j 02:03 direct minimum elong 11°516'34 10°47'32 26°**Ⅱ**18'29 -9334 Sep 10 i 11:50 evening set -9340 Aug 18 j 20:16 max. Earth dist. 11°519'51 31.41608 AU morning rise -9334 Sep 19 i 17:04 11°5541'13 conjunction -9340 Aug 25 i 05:55 26°**I**33'55 13°37'09 retrograde -9334 Dec 22 i 19:34 13°950'29 -9340 Aug 25 i 06:18 minimum elong 26°**I**33'58 13°37'43 min. Earth dist. -9333 Mar 11 i 02:27 12°530'58 29.51959 AU max. Earth dist. -9340 Aug 25 j 18:49 26°**Ⅲ**35'13 30.78479 AU -9333 Mar 12 i 14:15 12°9528'34 11°13'41 opposition -9340 Aug 31 j 16:21 26°**Ⅱ**49'26 direct -9333 May 30 j 23:40 11°906'49 morning rise -9340 Dec 07 j 20:08 29°**Ⅱ**13'19 evening set -9333 Aug 31 j 11:55 13°9512'39 retrograde opposition -9339 Feb 24 j 16:32 27°II49'54 14°19'53 27°**II**50'57 28.88062 AU min. Earth dist. -9339 Feb 24 j 01:11 conjunction -9333 Sep 11 j 14:50 13°**©**38'15 10°15'15 26°**II**25'52 -9339 May 15 j 05:02 minimum elong -9333 Sep 11 j 15:13 13°938'17 10°15'48 direct 28°**Ⅱ**47'06 -9339 Aug 20 j 16:14 max. Earth dist. -9333 Sep 13 j 03:31 13°541'47 31.55388 AU evening set morning rise -9333 Sep 22 j 19:03 14°903'59 -9339 Aug 27 j 22:43 29°**Ⅲ**04'31 13°11'43 -9333 Dec 25 j 09:38 conjunction retrograde 16°9511'08 -9339 Aug 27 j 23:06 -9332 Mar 12 j 17:30 14°552'02 29.65787 AU minimum elong 29°**Ⅲ**04'33 13°12'16 min. Earth dist. -9339 Aug 28 j 16:27 29°**Д**06'18 30.86306 AU max. Earth dist. opposition -9332 Mar 14 j 07:37 14°**©**49'30 10°39'16 29°**Ⅲ**22'01 morning rise -9339 Sep 04 j 05:51 direct -9332 Jun 01 j 15:42 13°9528'08 -9339 Sep 20 j 13:00 0 $\circ$  $\odot$ evening set -9332 Sep 01 j 12:44 15°531'41 retrograde -9339 Dec 10 j 12:29 1°9543'08 opposition -9338 Feb 27 j 13:37 0°9519'55 13°51'52 conjunction -9332 Sep 13 j 03:24 15°**9**58'12 9°42'51 min. Earth dist. -9338 Feb 26 j 19:10 0°921'10 28.96101 AU minimum elong -9332 Sep 13 j 03:47 15°**©**58'15 9°43'25 -9338 Mar 11 j 19:22 30°R∏ -9332 Sep 14 j 19:31 16°502'03 31.69957 AU max. Earth dist.

direct

-9338 May 18 j 02:07

28°**Ⅲ**56′13

-9332 Sep 24 j 19:12

morning rise

16°9524'51

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 6
Attention, astronomical year style is used: The year -9332 in astronomical counting style is the year 9333 BCE in historical counting style.

,	ical year style is used: Th		•	//		, ,	,0 0
retrograde	-9332 Dec 26 j 22:40	18° <b>5</b> 29'57		evening set	-9325 Sep 14 j 20:53		
min. Earth dist.	-9331 Mar 15 j 06:57	17°5911'18	29.80378 AU	C	1 3		
opposition	-9331 Mar 17 j 00:02	17°908'35	10°04'11	conjunction	-9325 Sep 28 j 22:14	1° <b>Ω</b> 23'56	5°44'10
direct	-9331 Jun 04 j 09:19	15° <b>©</b> 47'35		minimum elong	-9325 Sep 28 j 22:28		
evening set	-9331 Sep 03 j 13:54	17°9548'58		max. Earth dist.	-9325 Oct 01 j 08:41		32.93768 AU
	year oup ou justice.	-, -,,,,,		morning rise	-9325 Oct 13 j 01:32		
conjunction	-9331 Sep 15 j 15:11	18°916'17	9°09'51	retrograde	-9324 Jan 11 j 19:33		
minimum elong	-9331 Sep 15 j 15:32	18°9516'20	9°10'25	min. Earth dist.	-9324 Mar 30 j 07:18		31.04955 AU
max. Earth dist.	-9331 Sep 17 j 09:04		31.85273 AU	opposition	-9324 Apr 01 j 19:27		
morning rise	-9331 Sep 27 j 17:59	18°9643'44	31.03273710	direct	-9324 Jun 20 j 07:52		3 1731
retrograde	-9331 Dec 29 j 12:04	20°946'51		evening set	-9324 Sep 15 j 22:08		
min. Earth dist.	-9330 Mar 17 j 19:31		29.95751 AU	evening set	732+ 50p 13 j 22.00	2 063010	
opposition	-9330 Mar 17 j 15:31	19° <b>©</b> 25'45		conjunction	-9324 Sep 30 j 04:53	3° <b>Ω</b> 28'44	5°09'20
direct	-9330 Jun 06 j 23:35	18°905'07	) 2032	minimum elong	-9324 Sep 30 j 04:33		
evening set	-9330 Sep 05 j 14:55	20°904'24		max. Earth dist.	-9324 Oct 02 j 17:21		33.14445 AU
evening set	-7550 Sep 05 j 14.55	20 30727		morning rise	-9324 Oct 14 j 13:59		33.14443 AO
conjunction	-9330 Sep 18 j 02:16	20°932'25	8°36'22	retrograde	-9324 Oct 14 j 13:39		
minimum elong	-9330 Sep 18 j 02:37	20°932'27	8°36'55	min. Earth dist.	-9323 Apr 01 j 15:42		31.25740 AU
max. Earth dist.	-9330 Sep 18 j 02.57		32.01358 AU	opposition	-9323 Apr 04 j 05:26		
			32.01338 AU				3 10 23
morning rise	-9330 Sep 30 j 14:57	21°900'35		direct	-9323 Jun 22 j 16:28		
retrograde	-9330 Dec 31 j 22:31	23°901'47	20 11007 ATT	evening set	-9323 Sep 17 j 23:23	5° <b>Ω</b> 01'11	
min. Earth dist.	-9329 Mar 20 j 08:00		30.11907 AU		0222 0 4 02 111 00	50 021140	402.412.4
opposition	-9329 Mar 22 j 06:13	21°5540'57	8°52'23	conjunction	-9323 Oct 02 j 11:09		
direct	-9329 Jun 09 j 15:34	20°520'42		minimum elong	-9323 Oct 02 j 11:21		
evening set	-9329 Sep 07 j 16:04	22° <b>©</b> 17'57		max. Earth dist.	-9323 Oct 05 j 02:13		33.35690 AU
				morning rise	-9323 Oct 17 j 01:02		
conjunction	-9329 Sep 20 j 12:21	22°546'34	8°02'27	retrograde	-9322 Jan 15 j 08:02		
minimum elong	-9329 Sep 20 j 12:40	22°546'36	8°02'59	min. Earth dist.	-9322 Apr 03 j 22:43		31.47053 AU
max. Earth dist.	-9329 Sep 22 j 11:44		32.18235 AU	opposition	-9322 Apr 06 j 14:19		4°33'19
morning rise	-9329 Oct 03 j 10:21	23°9515'20		direct	-9322 Jun 25 j 01:43		
retrograde	-9328 Jan 03 j 11:06	25° <b>©</b> 14'42		evening set	-9322 Sep 20 j 00:47	7° <b>Ω</b> 02'27	
min. Earth dist.	-9328 Mar 21 j 18:18		30.28898 AU			_	
opposition	-9328 Mar 23 j 20:10	23° <b>©</b> 54'09	8°15'51	conjunction	-9322 Oct 04 j 16:37		3°59'53
direct	-9328 Jun 11 j 06:29	22° <b>5</b> 34'16		minimum elong	-9322 Oct 04 j 16:47		
evening set	-9328 Sep 08 j 17:13	24° <b>©</b> 29'35		max. Earth dist.	-9322 Oct 07 j 08:32		33.57404 AU
				morning rise	-9322 Oct 19 j 11:00		
conjunction	-9328 Sep 21 j 21:57	24° <b>©</b> 58'44	7°28'11	retrograde	-9321 Jan 17 j 15:21		
minimum elong	-9328 Sep 21 j 22:16	24°958'46	7°28'44	min. Earth dist.	-9321 Apr 06 j 05:03		31.68836 AU
max. Earth dist.	-9328 Sep 24 j 01:10	25° <b>©</b> 03'29	32.35926 AU	opposition	-9321 Apr 08 j 22:44		3°56'25
morning rise	-9328 Oct 05 j 04:19	25°528'02		direct	-9321 Jun 27 j 08:06		
retrograde	-9327 Jan 04 j 20:24	27° <b>5</b> 25'39		evening set	-9321 Sep 22 j 01:54	9° <b>Ω</b> 02'03	
min. Earth dist.	-9327 Mar 24 j 05:35	26°908'44	30.46725 AU				
opposition	-9327 Mar 26 j 09:12	26° <b>©</b> 05'23	7°39'01	conjunction	-9321 Oct 06 j 21:31	9° <b>Ω</b> 32'49	3°25'23
direct	-9327 Jun 13 j 20:24	24°9645'55		minimum elong	-9321 Oct 06 j 21:39		
evening set	-9327 Sep 10 j 18:30	26° <b>©</b> 39'24		max. Earth dist.	-9321 Oct 09 j 16:03		33.79517 AU
				morning rise	-9321 Oct 21 j 19:29		
conjunction	-9327 Sep 24 j 06:45	27° <b>©</b> 08'59	6°53'40	retrograde	-9320 Jan 19 j 19:49		
minimum elong	-9327 Sep 24 j 07:02	27° <b>©</b> 09'00	6°54'12	min. Earth dist.	-9320 Apr 07 j 11:57	10° <b>Ω</b> 37'41	31.90993 AU
max. Earth dist.	-9327 Sep 26 j 11:51	27° <b>©</b> 13'51	32.54443 AU	opposition	-9320 Apr 10 j 06:25	10° <b>£</b> 33'33	3°19'45
morning rise	-9327 Oct 07 j 20:51	27° <b>©</b> 38'44		direct	-9320 Jun 28 j 16:57		
retrograde	-9326 Jan 07 j 05:15	29° <b>5</b> 34'39		evening set	-9320 Sep 23 j 03:13	10° <b>Ω</b> 59'57	
min. Earth dist.	-9326 Mar 26 j 13:55	28° <b>5</b> 18'19	30.65377 AU				
opposition	-9326 Mar 28 j 21:21	28° <b>©</b> 14'44	7°01'58	conjunction	-9320 Oct 08 j 01:49	11° <b>Ω</b> 30'43	2°51'06
direct	-9326 Jun 16 j 09:11	26°955'41		minimum elong	-9320 Oct 08 j 01:56	11° <b>Ω</b> 30'43	2°51'35
evening set	-9326 Sep 12 j 19:40	28°5947'24		max. Earth dist.	-9320 Oct 10 j 20:42	11° <b>Ω</b> 36′30	34.01966 AU
				morning rise	-9320 Oct 23 j 03:04	12° <b>Ω</b> 01'42	
conjunction	-9326 Sep 26 j 14:47	29° <b>©</b> 17'21	6°18'58	retrograde	-9319 Jan 21 j 01:57	13° <b>Ω</b> 48′01	
minimum elong	-9326 Sep 26 j 15:03	29°517'23	6°19'30	min. Earth dist.	-9319 Apr 09 j 16:23	12° <b>Ω</b> 34'50	32.13491 AU
max. Earth dist.	-9326 Sep 28 j 22:58	29° <b>5</b> 22'28	32.73734 AU	opposition	-9319 Apr 12 j 13:07	12° <b>Ω</b> 30'34	2°43'22
morning rise	-9326 Oct 10 j 11:53	29°5647'28		direct	-9319 Jul 01 j 00:23		
	-9326 Oct 16 j 10:10	$0^{\circ}\Omega$		evening set	-9319 Sep 25 j 04:18	12° <b>Ω</b> 56′07	
retrograde	-9325 Jan 09 j 12:12	1° <b>Ω</b> 41'50					
min. Earth dist.	-9325 Mar 28 j 23:50	0° <b>Ω</b> 25'54	30.84809 AU	conjunction	-9319 Oct 10 j 05:29	13° <b>Ω</b> 26′50	2°17'05
opposition	-9325 Mar 31 j 08:51	0° <b>£</b> 22′15	6°24'47	minimum elong	-9319 Oct 10 j 05:35	13° <b>Ω</b> 26′50	2°17'32
	-9325 Apr 15 j 00:11	30°R≌		max. Earth dist.	-9319 Oct 13 j 02:37	13° <b>Ω</b> 32'45	34.24705 AU
direct	-9325 Jun 18 j 20:47	29° <b>©</b> 03'39		morning rise	-9319 Oct 25 j 09:19	13° <b>Ω</b> 57'46	
	-9325 Aug 18 j 10:40	$0^{\circ}\Omega$			-9319 Nov 29 j 04:58	15° <b>Ω</b>	

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9318 in astronomical counting style is the year 9319 BCE in historical counting style. retrograde -9318 Jan 23 i 05:13 15°**Ω**42'57 opposition -9312 Apr 25 j 15:42 25°Ω21'45 -1°19'42 -9318 Mar 21 j 21:00 15°RΩ direct -9312 Jul 14 j 03:52 24°Ω08'20 min. Earth dist. -9318 Apr 11 j 22:15 14°**Ω**30'04 32.36295 AU -9312 Oct 07 j 07:36 25°**Ω**43'01 evening set -9318 Apr 14 j 19:14 14°Ω25'49 2°07'20 opposition 26°**Ω**12'17 -1°30'29 -9318 Jul 03 j 07:30 13°**Ω**10′08 -9312 Oct 22 j 12:37 direct conjunction 26°**Ω**12'16 1°30'05 -9318 Sep 27 j 05:08 -9312 Oct 22 j 12:33 evening set 14°**£**50′33 minimum elong -9318 Oct 01 j 22:31 -9312 Oct 25 j 19:36 15°€ max. Earth dist. 26°**Ω**18'39 35.93341 AU -9312 Nov 06 j 20:37 morning rise 26°**Ω**41'46 -9318 Oct 12 j 08:19 15°**Q**21'10 1°43'22 conjunction retrograde -9311 Feb 04 j 11:03 28°**Ω**20'40 -9311 Apr 24 j 10:35  $27^{\circ}\Omega 10'31 34.06082 \text{ AU}$ minimum elong -9318 Oct 12 j 08:24 15°**Ω**21'10 1°43'49 min. Earth dist. max. Earth dist. -9318 Oct 15 j 06:20 15°**Ω**27'07 34.47744 AU opposition -9311 Apr 27 j 16:43 27°Ω05'52 -1°52'22 -9318 Oct 27 j 14:11 -9311 Jul 16 j 05:13 morning rise 15°**Ω**52'00 direct 25°**Ω**52'52 -9311 Oct 09 j 07:38 retrograde -9317 Jan 25 j 06:52 17°**Ω**36′05 evening set 27°**Ω**26'48 min. Earth dist. -9317 Apr 14 j 01:01 16°**Ω**23'39 32.59421 AU opposition -9317 Apr 17 j 00:25 16°**Ω**19'16 1°31'40 conjunction -9311 Oct 24 j 11:28 27°Ω55'44 -2°01'07 direct -9317 Jul 05 j 14:17 15°**Ω**03'57 minimum elong -9311 Oct 24 j 11:23 27°**Ω**55'44 2°00'45 evening set -9317 Sep 29 j 05:57 16°**Ω**43'14 max. Earth dist. -9311 Oct 27 j 18:48 28° **Ω**02'06 36.18691 AU morning rise -9311 Nov 08 j 18:15 28°**Ω**24'55 conjunction -9317 Oct 14 j 10:31 17°Ω13'42 1°10'00 -9310 Jan 22 j 07:45 minimum elong -9317 Oct 14 j 10:34 17°**Ω**13'43 1°10'26 retrograde -9310 Feb 06 j 09:28 0° m 03'07 max. Earth dist. -9317 Oct 17 j 10:06 17°**Ω**19'45 34.71096 AU -9310 Feb 21 j 13:18 30°R€ morning rise -9317 Oct 29 i 18:01 17°**Ω**44'25 min. Earth dist. -9310 Apr 26 i 09:12 28° Ω53'25 34.31575 AU retrograde -9316 Jan 27 i 07:36 19°**Ω**27'29 opposition -9310 Apr 29 i 17:06 28°Ω48'41 -2°24'28 min. Earth dist. -9316 Apr 15 i 04:55 18°Ω15'22 32.82921 AU direct -9310 Jul 18 i 07:46 27°Ω36'05 opposition -9316 Apr 18 j 05:01 18°Ω10'58 0°56'25 evening set -9310 Oct 11 j 07:33 29°**Ω**09'19 -9316 Jul 06 j 19:03 16°Ω56'01 direct -9316 Sep 30 j 06:27 18°**Ω**34'14 -9310 Oct 26 j 09:39 29°**Q**37'55 -2°31'13 evening set conjunction -9310 Oct 26 j 09:33 29°Ω37'54 2°30'51 minimum elong -9316 Oct 15 j 12:10 19°**Ω**04'32 0°37'01 max. Earth dist. -9310 Oct 29 j 18:01 29°**Ω**44'19 36.44172 AU conjunction -9316 Oct 15 j 12:11 19°**Ω**04'32 0°37'27 -9310 Nov 07 j 00:36 minimum elong 0° m -9316 Oct 18 j 13:35 19°**Ω**10'40 34.94820 AU -9310 Nov 10 j 14:55 max. Earth dist. morning rise 0° Mp 06'44 19°**Ω**35′03 -9316 Oct 30 j 20:35 -9309 Feb 08 j 07:07 1° mp 44'20 retrograde morning rise -9309 Apr 28 j 09:17 -9315 Jan 28 j 07:38 21°**Ω**17'10 min. Earth dist. 0° 10/34'56 34.57195 AU retrograde 20°**Ω**05'28 33.06802 AU -9315 Apr 17 j 06:51 -9309 May 01 j 17:08  $0^{\circ}$  **m**  $30'14 - 2^{\circ}55'58$ min. Earth dist. opposition -9315 Apr 20 j 08:41 20°Ω00'58 0°21'38 -9309 May 23 j 18:53 opposition 30°₽£ -9315 Jul 08 j 23:26 18°**Ω**46′24 -9309 Jul 20 j 08:26 29°**Ω**18′01 direct direct -9315 Oct 02 j 07:03 20°**Ω**23'37 -9309 Sep 13 j 02:50 evening set 0° m evening set -9309 Oct 13 j 07:22 0° m 50'36 conjunction -9315 Oct 17 j 13:05 20°Ω53'42 0°04'31 minimum elong -9315 Oct 17 j 13:05 20°**Ω**53'42 0°04'55 conjunction -9309 Oct 28 j 07:40 1° To 18'49 -3°00'46 behind sun begin -9315 Oct 17 j 06:52 20°**Ω**53'13 minimum elong -9309 Oct 28 j 07:33 1° m 18'48 3°00'27 -9315 Oct 17 j 19:19 20°**Ω**54'11 max. Earth dist. -9309 Oct 31 j 16:53 1° m/25'14 36.69736 AU behind sun end -9315 Oct 20 j 15:16 20°**Ω**59'51 35.18911 AU -9309 Nov 12 j 10:48 1°M/47'15 max. Earth dist. morning rise -9315 Nov 01 j 22:12 21°**Ω**24'01 -9308 Feb 10 j 03:12 3° m 24'16 morning rise retrograde -9315 Dec 07 j 03:49 22°**Ω**24'39 -9308 Apr 29 j 07:49 2° m 15'14 34.82856 AU desc. node min. Earth dist. -9314 Jan 30 i 09:23 retrograde 23°Ω05'14 opposition -9308 May 02 j 16:22  $2^{\circ}$  m  $10'30 - 3^{\circ}26'52$ -9314 Apr 19 i 08:15 min. Earth dist. 21°Ω53'56 33.31095 AU direct -9308 Jul 21 i 09:09 0° m 58'38 opposition -9314 Apr 22 j 11:37 21°Ω49'22 -0°12'40 evening set -9308 Oct 14 i 07:14 2° m 30'37 direct -9314 Jul 11 i 01:10 20°**Ω**35'11 evening set -9314 Oct 04 j 07:20 22° Ω11'30 conjunction -9308 Oct 29 i 05:04 2° m 58'25 -3°29'47 minimum elong -9308 Oct 29 i 04:56 2° m 58'25 3°29'27 -9314 Oct 19 j 13:34 22°Ω41'20 -0°27'42 max. Earth dist. -9308 Nov 01 j 13:56 3° 1004'46 36.95293 AU conjunction 22°**Ω**41'20 0°27'17 -9314 Oct 19 j 13:33 -9308 Nov 13 j 06:02 3° m 26'28 minimum elong morning rise retrograde max. Earth dist. -9314 Oct 22 j 18:11 22°**Ω**47'37 35.43390 AU -9307 Feb 11 j 00:51 5° m 02'55 3° m 54'12 35.08515 AU morning rise -9314 Nov 03 j 22:36 23°**Ω**11'24 min. Earth dist. -9307 May 01 j 06:12 retrograde -9313 Feb 01 j 09:52 24°Ω51'47 opposition -9307 May 04 j 15:12 3°m/49'28 -3°57'08 23°**Ω**40'51 33.55765 AU -9307 Jul 23 j 06:46 min. Earth dist. -9313 Apr 21 j 09:46 direct 2° m 37'56 -9313 Apr 24 j 13:58 23°**Ω**36'16 -0°46'27 -9307 Oct 16 j 06:50 4° 1009'19 opposition evening set -9313 Jul 13 j 03:39 22°**\O**22'28 direct -9313 Oct 06 j 07:28 23°**Ω**57'56 -9307 Oct 31 j 02:08 4° m 36'43 -3°58'14 evening set conjunction minimum elong -9307 Oct 31 j 02:00 4° m/36'43 3°57'56 conjunction -9313 Oct 21 j 13:14 24°**Ω**27'29 -0°59'20 max. Earth dist. -9307 Nov 03 j 12:22 4° Mp 43'07 37.20811 AU minimum elong -9313 Oct 21 j 13:11 24°**Ω**27'29 0°58'57 morning rise -9307 Nov 15 j 00:15 5° Mp 04'21 max. Earth dist. -9313 Oct 24 j 18:07 24°**Ω**33'45 35.68220 AU retrograde -9306 Feb 12 j 21:15 6° Mp 40'15 morning rise -9313 Nov 05 j 22:03 24°**Ω**57'17 min. Earth dist. -9306 May 03 j 04:40 5° Mp 31'47 35.34123 AU -9312 Feb 03 j 12:20 26°**Ω**36'54 -9306 May 06 j 13:17 5° m 27'06 -4°26'48 retrograde opposition -9312 Apr 22 j 09:23 25°**Ω**26'25 33.80787 AU -9306 Jul 25 j 04:46 4° m 15'53 min. Earth dist. direct

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 8 Attention, astronomical year style is used: The year -9306 in astronomical counting style is the year 9307 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -9306 i	n astronomical co	unting style is the year	9307 BCE in historical c	ounting style.	
evening set	-9306 Oct 18 j 06:19	5° Mp 46'43		min. Earth dist.	-9299 May 13 j 22:05	16° <b>m</b> 19'29	37.14444 AU
				opposition	-9299 May 17 j 09:13	16° <b>m</b> 14'48	-7°36'20
conjunction	-9306 Nov 01 j 22:32	6° Mp 13′40	-4°26'06	direct	-9299 Aug 05 j 02:56	15° <b>m</b> 05'43	
minimum elong	-9306 Nov 01 j 22:23	6° Mp 13′40	4°25'48	evening set	-9299 Oct 29 j 21:48	16° <b>m</b> 33'48	
max. Earth dist.	-9306 Nov 05 j 08:06	6° <b>m</b> 19′58	37.46285 AU				
morning rise	-9306 Nov 16 j 17:43	6° Mp 40′51		conjunction	-9299 Nov 12 j 08:44	16° Mp 57'20	-7°24'34
retrograde	-9305 Feb 14 j 19:01	8° Mp 16'14		minimum elong	-9299 Nov 12 j 08:31	16° m 57'19	7°24'23
min. Earth dist.	-9305 May 05 j 00:56	7° Mp 08'06	35.59718 AU	max. Earth dist.	-9299 Nov 15 j 21:45	17° m 03'34	39.25624 AU
opposition	-9305 May 08 j 10:53	7° m 03'22		morning rise	-9299 Nov 25 j 22:09	17° <b>m</b> 21'03	
direct	-9305 Jul 27 j 01:03	5° m 52'26		retrograde	-9298 Feb 25 j 02:47	18° m 53'56	
evening set	-9305 Oct 20 j 05:28	7° m) 22'45		min. Earth dist.	-9298 May 15 j 14:57		37.40338 AU
, and the second	,	7		opposition	-9298 May 19 j 03:10	17° <b>m</b> 43'06	
conjunction	-9305 Nov 03 j 18:23	7° <b>m</b> ) 49'16	-4°53'24	direct	-9298 Aug 06 j 20:03	16° m/34'20	
minimum elong	-9305 Nov 03 j 18:13	7° <b>m</b> ) 49'15		evening set	-9298 Oct 31 j 20:09	18° mp 02'12	
max. Earth dist.	-9305 Nov 07 j 05:19		37.71739 AU		,_,, , , , , , , , , , , , , , , , , ,		
morning rise	-9305 Nov 18 j 10:14	8° m 15'59		conjunction	-9298 Nov 14 j 01:48	18° <b>m</b> 25'12	-7°47'40
retrograde	-9304 Feb 16 j 14:16	9° m 50'53		minimum elong	-9298 Nov 14 j 01:35	18° m) 25'11	
min. Earth dist.	-9304 May 05 j 22:47		35.85326 AU	max. Earth dist.	-9298 Nov 17 j 15:29		39.51279 AU
opposition	-9304 May 09 j 08:00	8° Mp 38'17		morning rise	-9298 Nov 27 j 09:56	18° m) 48'23	37.31277110
direct	-9304 Jul 27 j 23:41	7° m) 27'38	-5 24 15	retrograde	-9297 Feb 26 j 19:44	20° m) 21'03	
evening set	-9304 Oct 21 j 04:35	8° Mp 57'28		min. Earth dist.	-9297 May 17 j 09:49	-	37.66125 AU
evening set	-7304 Oct 21 j 04.33	0 III 3720		opposition	-9297 May 20 j 20:56	19° m) 10'32	
conjunction	-9304 Nov 04 j 13:56	9° m 23'31	5020106	direct	-9297 May 20 j 20.30	18° My 02'05	-0 24 30
minimum elong	3	9° m 23'30				19° <b>m</b> ) 29'45	
Č	-9304 Nov 04 j 13:46	•	37.97227 AU	evening set	-9297 Nov 02 j 18:24	19 111/2943	
max. Earth dist.	-9304 Nov 08 j 00:54		31.91221 AU		0207 N 15 : 10.20	100 m 50112	0010111
morning rise	-9304 Nov 19 j 02:02	9° Mp 49'46		conjunction	-9297 Nov 15 j 18:39	19° M 52'13	
retrograde	-9303 Feb 17 j 09:10	11° Mp 24'12	26 10000 ATT	minimum elong	-9297 Nov 15 j 18:25	19° m 52'12	
min. Earth dist.	-9303 May 07 j 17:45		36.10989 AU	max. Earth dist.	-9297 Nov 19 j 08:04		39.76793 AU
opposition	-9303 May 11 j 04:15	10° m 11'52	-5~51.57	morning rise	-9297 Nov 28 j 21:05	20° m 14'52	
direct	-9303 Jul 29 j 21:56	9° <b>m</b> 01'31		retrograde	-9296 Feb 28 j 11:09	21° m/47'20	25 21522 444
evening set	-9303 Oct 23 j 03:35	10° <b>m</b> 30'55		min. Earth dist.	-9296 May 18 j 02:48	-	37.91720 AU
	020231 06:00.52	1007 5000	5046119	opposition	-9296 May 21 j 14:10	20° m 37'08	-8°4'/'50
conjunction	-9303 Nov 06 j 08:53	10° m 56'29		direct	-9296 Aug 09 j 10:04	19° <b>m</b> 28'59	
minimum elong	-9303 Nov 06 j 08:42	10° <b>m</b> 56'28		evening set	-9296 Nov 03 j 16:49	20° <b>m</b> 56'28	
max. Earth dist.	-9303 Nov 09 j 20:26		38.22770 AU				
morning rise	-9303 Nov 20 j 17:08	11° <b>m</b> 22'15		conjunction	-9296 Nov 16 j 11:11	21° Mp 18'24	
retrograde	-9302 Feb 19 j 03:11	12° <b>m</b> 56'17		minimum elong	-9296 Nov 16 j 10:58	21° <b>m</b> ) 18'23	
min. Earth dist.	-9302 May 09 j 13:50		36.36747 AU	max. Earth dist.	-9296 Nov 19 j 23:49	~	40.02070 AU
opposition	-9302 May 13 j 00:16	11° <b>m</b> )44'14	-6°19'02	morning rise	-9296 Nov 29 j 07:57	21° <b>m</b> 40'29	
direct	-9302 Jul 31 j 18:26	10° <b>m</b> 34'11		retrograde	-9295 Mar 01 j 03:02	23° <b>m</b> 12'48	
evening set	-9302 Oct 25 j 02:10	12° <b>m</b> 03'11		min. Earth dist.	-9295 May 19 j 20:20	-	38.17077 AU
				opposition	-9295 May 23 j 07:01	22° <b>m</b> 02'52	-9°10'27
conjunction	-9302 Nov 08 j 03:24	12° <b>m</b> 28'15	-6°11'42	direct	-9295 Aug 11 j 02:57	20° m 55'00	
minimum elong	-9302 Nov 08 j 03:13	12° <b>m</b> )28'14		evening set	-9295 Nov 05 j 14:57	22° m/22'20	
max. Earth dist.	-9302 Nov 11 j 16:06		38.48409 AU				
morning rise	-9302 Nov 22 j 07:12	12° <b>m</b> 53'31		conjunction	-9295 Nov 18 j 03:31	22° <b>m</b> 43'42	-8°53'31
retrograde	-9301 Feb 20 j 19:03	14° <b>m</b> 27'13		minimum elong	-9295 Nov 18 j 03:16	22° <b>m</b> 43'41	8°53'22
min. Earth dist.	-9301 May 11 j 08:38		36.62586 AU	max. Earth dist.	-9295 Nov 21 j 16:36		40.27086 AU
opposition	-9301 May 14 j 19:42	13° <b>m</b> 15'27	-6°45'27	morning rise	-9295 Nov 30 j 18:03	23° <b>m</b> 05'13	
direct	-9301 Aug 02 j 15:37	12° <b>m</b> 05'42		retrograde	-9294 Mar 02 j 17:05	24° <b>m</b> 37'23	
evening set	-9301 Oct 27 j 00:52	13° <b>m</b> 34'21		min. Earth dist.	-9294 May 21 j 13:36	23° <b>m</b> 32'14	38.42144 AU
				opposition	-9294 May 24 j 23:30	23° <b>m</b> 27'43	-9°32'27
conjunction	-9301 Nov 09 j 21:29	13° <b>m</b> 58'55	-6°36'36	direct	-9294 Aug 12 j 20:52	22° <b>m</b> 20'07	
minimum elong	-9301 Nov 09 j 21:17	13° <b>m</b> 58'54	6°36'22	evening set	-9294 Nov 07 j 12:56	23° <b>m</b> 47'18	
max. Earth dist.	-9301 Nov 13 j 09:44	14° <b>m</b> 05'12	38.74122 AU				
morning rise	-9301 Nov 23 j 20:54	$14^\circ$ Mp $23^\prime$ $41$		conjunction	-9294 Nov 19 j 19:10	24° Mp 08'05	-9°14'21
retrograde	-9300 Feb 22 j 14:14	15° <b>m</b> 57'04		minimum elong	-9294 Nov 19 j 18:56	24° Mp 08'04	9°14'13
min. Earth dist.	-9300 May 12 j 02:51	14° <b>m</b> 50'20	36.88510 AU	max. Earth dist.	-9294 Nov 23 j 06:47	24° <b>m</b> ) 14'02	40.51819 AU
opposition	-9300 May 15 j 14:40	14° <b>m</b> 45'37		morning rise	-9294 Dec 02 j 03:29	24° m/29'02	
direct	-9300 Aug 03 j 08:53	13°M)36'11		retrograde	-9293 Mar 04 j 10:44	26° Mp 01'04	
evening set	-9300 Oct 27 j 23:19	15° <b>m</b> 04'32		min. Earth dist.	-9293 May 23 j 05:24	-	38.66950 AU
-	·			opposition	-9293 May 26 j 15:39	24° m 51'39	
conjunction	-9300 Nov 10 j 15:20	15° <b>m</b> 28'36	-7°00'53	direct	-9293 Aug 14 j 10:47	23° <b>m</b> 44'17	
minimum elong	-9300 Nov 10 j 15:08	15° <b>m</b> ) 28'35		evening set	-9293 Nov 09 j 10:47	25° m 11'19	
max. Earth dist.	-9300 Nov 14 j 05:04		38.99882 AU	-	ž	-	
morning rise	-9300 Nov 24 j 09:51	15° m 52'51		conjunction	-9293 Nov 21 j 10:40	25° m/31'33	-9°34'37
retrograde	-9299 Feb 23 j 07:54	17° m/25'57		minimum elong	-9293 Nov 21 j 10:25	25° m/31'32	
-	<b>3</b> · · · · ·	• • • •		- 6	J		

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9293 in astronomical counting style is the year 9294 BCE in historical counting style. -9293 Nov 24 i 22:58 25° m 37'30 40.76296 AU retrograde -9286 Mar 13 i 13:12 5°**£**22'17 max. Earth dist. 25° m 51'55 -9293 Dec 03 j 12:28 min. Earth dist. -9286 Jun 01 j 13:12 4°**2**18'48 40.35976 AU morning rise 27° m 23'49 -9292 Mar 05 j 02:07 opposition -9286 Jun 04 j 21:23 4° **Ω**14'31 -12°06'59 retrograde min. Earth dist. -9292 May 23 j 22:32 26° m 19'01 38.91524 AU direct -9286 Aug 23 j 18:45 3°<u>₽</u>08'48 -9286 Nov 20 j 17:15 opposition -9292 May 27 j 07:18 26° m 14'37 -10°14'40 evening set 4°**£**35'42 direct -9292 Aug 15 j 02:00 25° m 07'29 -9286 Nov 30 j 13:50 -9292 Nov 10 j 08:37 evening set 26° m 34'25 conjunction 4°**Ω**51'41 -11°40'50 4°**£**51'40 11°40'49 -9286 Nov 30 j 13:35 minimum elong conjunction -9292 Nov 22 j 01:50 26° m 54'04 -9°54'19 max. Earth dist. -9286 Dec 04 j 00:25 4°**2**57'17 42.43350 AU minimum elong -9292 Nov 22 j 01:36 26° m 54'03 9° 54'13 morning rise -9286 Dec 10 j 11:40 5°**£**07'46 max. Earth dist. -9292 Nov 25 j 13:23 26° m 59'55 41.00576 AU retrograde -9285 Mar 15 j 02:24 6°**£**39'31 5°**2**36'10 40.59434 AU morning rise -9292 Dec 03 j 20:48 27° m 13'50 min. Earth dist. -9285 Jun 03 j 04:14 retrograde -9291 Mar 06 j 16:55 28° Mp 45'37 opposition -9285 Jun 06 j 10:46 5°**2**32'00 -12°23'42 min. Earth dist. -9291 May 25 j 13:01 27° Mp 41'05 39.15918 AU direct -9285 Aug 25 j 08:10 4°**£**26'31 opposition -9291 May 28 j 22:29 27° m 36'39 -10°34'52 evening set -9285 Nov 22 j 14:46 5°**£**53'30 direct -9291 Aug 16 j 18:37 26° m 29'44 evening set -9291 Nov 12 j 06:16 27° m 56'36 conjunction -9285 Dec 02 j 03:09 6° 208'52 -11°56'43 minimum elong -9285 Dec 02 j 02:55 6°**2**08'51 11°56'42 conjunction -9291 Nov 23 j 16:30 28° m 15'39 -10°13'27 max. Earth dist. -9285 Dec 05 j 13:15 6°**2**14'24 42.66463 AU minimum elong -9291 Nov 23 j 16:15 28° m 15'38 10°13'22 morning rise -9285 Dec 11 j 16:28 6°**£**24'18 max. Earth dist. -9291 Nov 27 j 03:56 28° m 21'28 41.24685 AU retrograde -9284 Mar 15 j 13:40 7°**£**56'07 morning rise -9291 Dec 05 i 04:34 28° m 34'49 min. Earth dist. -9284 Jun 03 j 17:18 6°**2**53'00 40.82571 AU -9290 Feb 13 i 03:07 0∘∙თ opposition -9284 Jun 06 i 23:35 6° 248'51 -12°39'53 retrograde -9290 Mar 08 i 06:38 0°**₽**06'31 direct -9284 Aug 25 i 23:34 5°**£**43'35 -9290 Mar 31 j 13:12 30°R ₩ evening set -9284 Nov 23 j 12:21 7°**♀**10'42 -9290 May 27 j 04:44 29° m 02'09 39.40182 AU min. Earth dist. -9290 May 30 j 13:23 28° m 57'47 -10°54'29 -9284 Dec 02 j 16:08 7°**Ω**25'24 -12°12'07 conjunction opposition direct -9290 Aug 18 j 10:47 -9284 Dec 02 j 15:53 7°**2**25'23 12°12'07 27° m 51'06 minimum elong -9290 Nov 14 j 03:44 -9284 Dec 06 j 00:42 7°**2**30'49 42.89219 AU 29° m 17'55 max. Earth dist. evening set -9284 Dec 11 j 20:57 7°**£**40'11 morning rise  $29^{\circ}$  My  $36'22 -10^{\circ}32'02$ -9290 Nov 25 j 07:00 -9283 Mar 17 j 01:45 conjunction retrograde 9°**£**12'06 8°**2**09'08 41.05340 AU -9290 Nov 25 j 06:46 -9283 Jun 05 j 07:02 minimum elong 29° m 36'21 10°31'58 min. Earth dist. -9290 Nov 28 j 18:52 max. Earth dist. 29° Mp 42'11 41.48691 AU -9283 Jun 08 j 12:21 8°**2**05'03 -12°55'34 opposition -9290 Dec 06 j 11:44 29° M 54'55 -9283 Aug 27 j 13:09 7°**£**00'01 morning rise direct -9290 Dec 09 j 14:21 -9283 Nov 25 j 09:50 0∘**⊽** evening set 8°**£**27'15 -9289 Mar 09 j 18:09 retrograde 1°**£**26'35 -9289 May 28 j 19:12 -9283 Dec 04 j 04:55 min. Earth dist. 0°**£**22'26 39.64331 AU conjunction 8°**£**41'18 -12°27'02 opposition -9289 Jun 01 j 03:50 0° 218'05 -11°13'29 minimum elong -9283 Dec 04 j 04:42 8°**2**41'17 12°27'03 -9289 Jun 15 j 06:38 30°R, My max. Earth dist. -9283 Dec 07 j 13:32 8°**≏**46'41 43.11583 AU direct -9289 Aug 20 j 03:49 29° m 11'38 morning rise -9283 Dec 13 j 00:46 8°**£**55'24 -9289 Oct 22 j 01:18 0∘**⊽** retrograde -9282 Mar 18 j 12:01 10°**£**27'27 -9289 Nov 16 j 01:13 0°**£**38'25 min. Earth dist. -9282 Jun 06 j 20:50 9°**2**24'36 41.27686 AU evening set -9282 Jun 10 j 00:44 9°**2**20'36 -13°10'45 opposition -9289 Nov 26 j 21:02 0°**2**56'16 -10°50'02 -9282 Aug 29 j 03:30 8°**£**15'45 conjunction direct -9289 Nov 26 j 20:47 0°**2**56'15 10°49'58 -9282 Nov 27 j 07:31 9°**£**43'07 minimum elong evening set -9289 Nov 30 i 07:53 max. Earth dist. 1°**2**01'59 41.72585 AU -9289 Dec 07 i 18:27 -9282 Dec 05 i 17:25 9°**2**56'30 -12°41'28 morning rise 1°**£**14'13 conjunction -9282 Dec 05 i 17:10 retrograde -9288 Mar 10 j 07:52 2°**-**45'52 minimum elong 9°**2**56'29 12°41'30 min. Earth dist. -9288 May 29 i 09:20 1°**2**41'57 39.88377 AU max. Earth dist. -9282 Dec 09 i 00:05 10°**2**01'43 43.33544 AU -9288 Jun 01 i 18:06 1°**2**37'36 -11°31'53 morning rise -9282 Dec 14 i 04:02 10°**£**09'56 opposition retrograde -9288 Aug 20 j 17:44 0°**£**31'24 -9281 Mar 20 j 01:30 11°**£**42'06 direct -9288 Nov 16 j 22:35 1°**£**58'11 min. Earth dist. -9281 Jun 08 j 09:00 10°**2**39'25 41.49644 AU evening set -9281 Jun 11 j 12:49 10°**2**35'27 -13°25'25 opposition conjunction -9288 Nov 27 j 11:01 2° **2**15'25 -11°07'30 direct -9281 Aug 30 j 14:27 9°**₽**30'46 -9281 Nov 29 j 05:04 minimum elong -9288 Nov 27 j 10:46 2°**2**15'24 11°07'28 evening set 10°**£**58'18 max. Earth dist. -9288 Nov 30 j 22:47 2°**£**21'10 41.96355 AU 11°**≙**11'00 -12°55'27 -9288 Dec 08 j 00:45 2°**2**32'45 conjunction -9281 Dec 07 j 05:37 morning rise -9281 Dec 07 j 05:24 retrograde -9287 Mar 11 j 21:21 4°**£**04'24 minimum elong 11°**⊆**10'59 12°55'30 -9281 Dec 10 j 12:19 min. Earth dist. -9287 May 31 j 00:15 3°**♀**00'40 40.12268 AU max. Earth dist. 11°**⊆**16'11 43.55122 AU 2°**£**56'24 -11°49'43 -9281 Dec 15 j 06:49 opposition -9287 Jun 03 j 07:51 morning rise 11°**♀**23'44 direct -9287 Aug 22 j 07:30 1°**♀**50'26 retrograde -9280 Mar 20 j 14:33 12°**♀**56'02 evening set -9287 Nov 18 j 20:04 3°**2**17'16 min. Earth dist. -9280 Jun 08 j 22:42 11°**⊆**53'26 41.71237 AU opposition -9280 Jun 12 j 00:42 11°**2**49'34 -13°39'36 conjunction -9287 Nov 29 j 00:37 3°**2**33'53 -11°24'26 direct -9280 Aug 31 j 01:36 10°**£**45′04 minimum elong -9287 Nov 29 j 00:23 3°**△**33'52 11°24'23 evening set -9280 Nov 30 j 02:57 12°**£**12'47 -9287 Dec 02 j 11:07 3°**2**39'30 42.19966 AU max. Earth dist. -9287 Dec 09 j 06:26 -9280 Dec 07 j 17:41 12°**2**24'47 -13°08'57 morning rise 3°**£**50'35 conjunction

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 10 Attention, astronomical year style is used: The year -9280 in astronomical counting style is the year 9281 BCE in historical counting style.

Attention, astronom	nical year style is used: Th		nical counting style is the year			
minimum elong	-9280 Dec 07 j 17:27	12° <b>£</b> 24'46 13°09'01	evening set	-9273 Dec 12 j 21:28	20° <b>≏</b> 38'54	
max. Earth dist.	-9280 Dec 10 j 23:21	12° <b>£</b> 29'53 43.76376	AU			
morning rise	-9280 Dec 15 j 08:51	12° <b>≏</b> 36'48	conjunction	-9273 Dec 16 j 22:59	20° <b>≏</b> 45'07	-14°30'13
retrograde	-9279 Mar 22 j 01:48	14° <b>♀</b> 09'16	minimum elong	-9273 Dec 16 j 22:48	20° <b>≏</b> 45'06	14°30'22
min. Earth dist.	-9279 Jun 10 j 09:52	13° <b>2</b> 06'51 41.92525	AU max. Earth dist.	-9273 Dec 20 j 00:54	20° <b>≏</b> 49'50	45.18759 AU
opposition	-9279 Jun 13 j 11:58	13° <b>♀</b> 02'59 -13°53'17	morning rise	-9273 Dec 21 j 00:22	20° <b>≙</b> 51'19	
direct	-9279 Sep 01 j 13:30	11° <b>≏</b> 58′38	retrograde	-9272 Mar 30 j 01:33	22° <b>≏</b> 26'24	
evening set	-9279 Dec 02 j 00:49	13° <b>º</b> 26'36	min. Earth dist.	-9272 Jun 18 j 16:38		43.35201 AU
			opposition	-9272 Jun 21 j 13:24	21° <b>≏</b> 21'32	-15°15'14
conjunction	-9279 Dec 09 j 05:18	13° <b>2</b> 37′52 -13°21′58		-9272 Sep 09 j 19:27	20° <b>≏</b> 18'30	
minimum elong	-9279 Dec 09 j 05:05	13° <b>△</b> 37'51 13°22'02	- C	-9272 Dec 14 j 01:25	21° <b>≏</b> 49'44	
max. Earth dist.	-9279 Dec 12 j 10:05	13° <b>º</b> 42'54 43.97352				
morning rise	-9279 Dec 16 j 10:18	13° <b>≏</b> 49'10	conjunction	-9272 Dec 17 j 09:25	21° <b>≏</b> 54'49	-14°40'03
retrograde	-9278 Mar 23 j 11:32	15° <b>≏</b> 21'51	minimum elong	-9272 Dec 17 j 09:14	21° <b>≏</b> 54'48	14°40'12
min. Earth dist.	-9278 Jun 11 j 22:12	14° <b>£</b> 19'33 42.13580	Č	-9272 Dec 20 j 17:16	21° <b>≏</b> 59'54	
opposition	-9278 Jun 14 j 23:16	14° <b>£</b> 15'45 -14°06'27		-9272 Dec 20 j 09:10		45.37956 AU
direct	-9278 Sep 03 j 02:22	13° <b>≏</b> 11'35	retrograde	-9271 Mar 31 j 10:17	23° <b>≏</b> 35'42	
evening set	-9278 Dec 03 j 22:44	14° <b>≏</b> 39'48	min. Earth dist.	-9271 Jun 20 j 03:04		43.54339 AU
			opposition	-9271 Jun 22 j 23:00	22° <b>≏</b> 31'01	-15°25'08
conjunction	-9278 Dec 10 j 16:41	14° <b>♀</b> 50'20 -13°34'30		-9271 Sep 11 j 06:16	21° <b>≏</b> 28'09	
minimum elong	-9278 Dec 10 j 16:27	14° <b>£</b> 50'19 13°34'35	ū	-9271 Dec 16 j 09:40	23° <b>≏</b> 00'25	
max. Earth dist.	-9278 Dec 13 j 21:55	14° <b>♀</b> 55'22 44.18122				
morning rise	-9278 Dec 17 j 10:52	15° <b>£</b> 00'53	conjunction	-9271 Dec 18 j 19:46	23° <b>≏</b> 04'05	
retrograde	-9277 Mar 24 j 19:18	16° <b>△</b> 33'49	minimum elong	-9271 Dec 18 j 19:35	23° <b>△</b> 04'05	14°49'40
min. Earth dist.	-9277 Jun 13 j 09:45	15° <b>△</b> 31'40 42.34420	· ·	-9271 Dec 21 j 05:37	23° <b>Ω</b> 07'45	
opposition	-9277 Jun 16 j 10:13	15° <b>£</b> 27'54 -14°19'08		-9271 Dec 21 j 19:25		45.56714 AU
direct	-9277 Sep 04 j 16:29	14° <b>£</b> 23'55	retrograde	-9270 Apr 01 j 19:42	24° <b>Ω</b> 44'33	
evening set	-9277 Dec 05 j 21:13	15° <b>≙</b> 52'27	min. Earth dist.	-9270 Jun 21 j 14:36		43.73007 AU
			opposition	-9270 Jun 24 j 08:32	23° <b>Ω</b> 40'03	-15°34'37
conjunction	-9277 Dec 12 j 03:53	16° <b>£</b> 02'13 -13°46'34		-9270 Sep 12 j 16:30	22° <b>△</b> 37'20	
minimum elong	-9277 Dec 12 j 03:41	16° <b>£</b> 02'12 13°46'39	C	-9270 Dec 19 j 09:09	24° <b>£</b> 11'35	
max. Earth dist.	-9277 Dec 15 j 07:34	16° <b>£</b> 07'07 44.38699		0050 5 00:05 45	240 2 12152	1.40.5010.4
morning rise	-9277 Dec 18 j 10:51	16° <b>£</b> 12'00	conjunction	-9270 Dec 20 j 05:45	24° <b>£</b> 12'53	
retrograde	-9276 Mar 25 j 07:06	17° <b>£</b> 45'14	minimum elong	-9270 Dec 20 j 05:35	24° <b>£</b> 12'52	14°58'43
min. Earth dist.	-9276 Jun 13 j 20:16	16° <b>£</b> 43'17 42.55079	Č	-9270 Dec 21 j 02:03	24° <b>£</b> 14'09	45 75016 444
opposition	-9276 Jun 16 j 20:50	16° <b>£</b> 39'31 -14°31'18		-9270 Dec 23 j 03:25		45.75016 AU
direct	-9276 Sep 05 j 02:16	15° <b>£</b> 35'43	retrograde	-9269 Apr 03 j 07:12	25° <b>Ω</b> 52'55	42.01014.441
evening set	-9276 Dec 06 j 20:00	17° <b>≙</b> 04'38	min. Earth dist.	-9269 Jun 22 j 23:59		43.91214 AU
. ,.	0076 D 12:14.50	170 0 12125 12050100	opposition	-9269 Jun 25 j 17:48		-15°43'42
conjunction	-9276 Dec 12 j 14:59	17° <b>№</b> 13'35 -13°58'09		-9269 Sep 14 j 00:10	23° <b>≏</b> 45'59	
minimum elong	-9276 Dec 12 j 14:46	17° <b>№</b> 13'34 13°58'14		02(0 D 21:15.20	250 0 21100	1.500711.4
max. Earth dist.	-9276 Dec 15 j 19:01	17° <b>2</b> 18'29 44.59084	•	-9269 Dec 21 j 15:39	25° <b>£</b> 21'08	
morning rise	-9276 Dec 18 j 10:06	17° <b>£</b> 22'33	minimum elong	-9269 Dec 21 j 15:28	25° <b>£</b> 21'08	45.92860 AU
retrograde	-9275 Mar 26 j 18:21	18° <b>♀</b> 56'10 17° <b>♀</b> 54'19 42.75524	max. Earth dist.	-9269 Dec 24 j 12:19		45.92800 AU
min. Earth dist.	-9275 Jun 15 j 08:23		· ·	-9268 Apr 03 j 16:55	27° <b>Ω</b> 00'45	44.00000 411
opposition direct	-9275 Jun 18 j 07:22	17° <b>♀</b> 50'39 -14°42'59 16° <b>♀</b> 47'03		-9268 Jun 23 j 11:06 -9268 Jun 26 j 02:48	25° <b>£</b> 39'46 25° <b>£</b> 56'32	44.08990 AU
evening set	-9275 Sep 06 j 12:23 -9275 Dec 08 j 19:28	18° <b>2</b> 16′24	opposition		23 <b>≗</b> 30 32 24° <b>£</b> 54'04	-13 32 23
evening set	-3213 DEC 00 J 19.28	10 == 10 24	direct	-9268 Sep 14 j 09:19	∠ <del>+</del> ==34 04	
conjunction	-9275 Dec 14 j 01:45	18° <b>≙</b> 24'30 -14°09'17	conjunction	-9268 Dec 22 j 01:28	26° <b>£</b> 28'50	-15°15'32
minimum elong	-9275 Dec 14 j 01:43	18° <b>2</b> 24'30 -14 0917 18° <b>2</b> 24'30 14°09'24	•	-9268 Dec 22 j 01:19	26° <b>£</b> 28'50	
max. Earth dist.	-9275 Dec 17 j 04:44	18° <b>2</b> 29'19 44.79257	Č	-9268 Dec 24 j 21:36		46.10313 AU
morning rise	-9275 Dec 17 j 04:44 -9275 Dec 19 j 08:05	18° <b>2</b> 32'37	retrograde	-9267 Apr 04 j 23:59	28° <b>⊆</b> 08'00	40.10313 AO
retrograde	-9274 Mar 28 j 06:34	20° <b>£</b> 06'38	min. Earth dist.	-9267 Jun 24 j 20:21		44.26383 AU
min. Earth dist.	-9274 Jun 16 j 18:18	19° <b>2</b> 05'01 42.95728		-9267 Jun 27 j 11:32	27° <b>⊆</b> 07'08 27° <b>⊆</b> 03'56	
opposition	-9274 Jun 19 j 17:31	19° <b>2</b> 03'01 42.93728 19° <b>2</b> 01'21 -14°54'11	direct	-9267 Sep 15 j 20:39	26° <b>£</b> 01'34	10 00 70
direct	-9274 Sep 07 j 21:23	17° <b>⊆</b> 57'56	uncet	7207 Sep 13 j 20.37	20 -0134	
evening set	-9274 Dec 10 j 19:40	17 <b>⊆</b> 37 30 19° <b>⊆</b> 27'48	conjunction	-9267 Dec 23 j 10:45	27° <b>£</b> 35'59	-15°23'25
ovening set	7217 DW 10 J 17.40	17 -21 70	minimum elong	-9267 Dec 23 j 10:45	27° <b>⊆</b> 35'58	
conjunction	-9274 Dec 15 j 12:21	19° <b>≙</b> 35'01 -14°19'58	Č	-9267 Dec 26 j 05:06		46.27414 AU
minimum elong	-9274 Dec 15 j 12:21 -9274 Dec 15 j 12:09	19° <b>2</b> 35'00 14°20'05		-9266 Apr 06 j 08:04	27 <b>=</b> 4007 29° <b>£</b> 14'45	10.2/717 AU
max. Earth dist.	-9274 Dec 18 j 14:33	19° <b>2</b> 39'45 44.99162	Č	-9266 Jun 26 j 05:38		44.43469 AU
morning rise	-9274 Dec 18 j 14.33	19 <b>2</b> 3943 44.99162 19° <b>2</b> 42'13	opposition	-9266 Jun 28 j 20:08	28° <b>£</b> 13'37 28° <b>£</b> 10'48	
retrograde	-9274 Dec 20 j 03:02 -9273 Mar 29 j 18:07	19 <b>⊆</b> 42 13 21° <b>⊆</b> 16'43	direct	-9266 Sep 17 j 06:27	26 <b>≥</b> 1048 27° <b>⊆</b> 08'33	10 00 32
min. Earth dist.	-9273 Jun 18 j 05:56	20° <b>2</b> 15'13 43.15649		-7200 Sep 1/J 00.2/	21 == U0 33	
opposition	-9273 Jun 21 j 03:37	20° <b>2</b> 11'38 -15°04'56		-9266 Dec 24 j 20:06	28° <b>≏</b> 42'36	-15°30'55
direct	-9273 Sep 09 j 06:50	19° <b>2</b> 08'25	minimum elong	-9266 Dec 24 j 19:58	28° <b>£</b> 42'35	
311001	7275 Бер ОУ J 00.50	., —0025	mmmam clong	7200 Dec 24 j 17.30	20 -1233	15 51 00

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 11 Attention, astronomical year style is used: The year -9265 in astronomical counting style is the year 9266 BCE in historical counting style. 28°**2**46'44 46.44234 AU max. Earth dist. -9266 Dec 27 j 14:43 conjunction -9257 Jan 02 j 18:11 7°M23'09 -16°17'20 -9265 Feb 22 j 16:59 0°M -9257 Jan 02 j 18:05 7°M23'09 16°17'37 minimum elong 7°M26'37 47.67812 AU -9265 Apr 07 j 14:28 0°M20'59 -9257 Jan 05 j 03:42 retrograde max. Earth dist. -9265 May 22 j 05:18 -9257 Apr 16 j 11:04 30°**₹**Ω 8°M.58'56 retrograde -9265 Jun 27 j 15:26 29°**£**20'15 44.60276 AU -9257 Jul 06 j 13:22 7°M59'03 45.83068 AU min. Earth dist. min. Earth dist. -9265 Jun 30 j 04:29 -9257 Jul 08 j 18:03 opposition 29° **2**17'10 -16°15'59 opposition 7°M56'27 -17°01'44 -9257 Sep 27 j 07:08 direct -9265 Sep 18 j 17:03 28°**£**15′03 direct 6°M55'24 conjunction -9265 Dec 26 j 05:16 29°**2**48'45 -15°38'00 conjunction -9256 Jan 04 j 02:25 8°M26'56 -16°21'37 minimum elong -9265 Dec 26 j 05:06 29°**£**48'45 15°38'14 minimum elong -9256 Jan 04 j 02:20  $8^{\circ}$ M26'56  $16^{\circ}$ 21'55 29°**♀**52'46 46.60809 AU max. Earth dist. -9265 Dec 28 j 22:14 max. Earth dist. -9256 Jan 06 j 09:43 8°M30'16 47.81281 AU -9264 Jan 02 j 19:34 -9256 Apr 16 j 18:27 0°M retrograde 10°M02'24 -9264 Apr 08 j 00:33 -9256 Jul 06 j 22:06 retrograde 1°M26'45 min. Earth dist. 9°M02'33 45.96372 AU min. Earth dist. -9264 Jun 27 j 23:29 0°M26'11 44.76836 AU opposition -9256 Jul 09 j 01:11 9°ML00'02 -17°05'55 opposition -9264 Jun 30 j 12:40 0°ML23'07 -16°23'01 direct -9256 Sep 27 j 15:13 7°M59'04 -9264 Jul 20 j 03:42 30°**₽**Ω conjunction direct -9264 Sep 19 j 00:18 29°**£**21'07 -9255 Jan 04 j 10:38 9°MJ30'20 -16°25'36 -9264 Nov 17 j 06:20 0°M minimum elong -9255 Jan 04 j 10:32 9°MJ30'20 16°25'55 max. Earth dist. -9255 Jan 06 j 17:37 9°M33'38 47.94285 AU conjunction -9264 Dec 26 j 14:17 0°ML54'31 -15°44'43 retrograde -9255 Apr 17 j 22:28 11°ML05'30 minimum elong -9264 Dec 26 j 14:09 0°M54'30 15°44'57 min. Earth dist. -9255 Jul 08 j 06:26 10°ML05'40 46.09223 AU max. Earth dist. -9264 Dec 29 i 06:49 0°ML58'29 46.77125 AU opposition -9255 Jul 10 i 07:58 10°ML03'13 -17°09'46 retrograde -9263 Apr 09 j 11:18 2°M32'09 direct -9255 Sep 29 j 01:18 9°M02'21 min. Earth dist. -9263 Jun 29 i 09:16 1°ML31'39 44.93136 AU opposition -9263 Jul 01 i 20:43 1°M28'41 -16°29'39 conjunction -9254 Jan 05 i 18:31 10°M33'21 -16°29'15 -9263 Sep 20 j 06:30 0°M26'50 minimum elong -9254 Jan 05 j 18:27 10°M33'21 16°29'34 direct max. Earth dist. -9254 Jan 07 j 23:24 10°MJ36'31 48.06888 AU -9263 Dec 27 j 23:12 1°ML59'56 -15°51'01 -9254 Apr 19 j 05:20 12°ML08'12 conjunction retrograde -9263 Dec 27 j 23:04 -9254 Jul 09 j 13:26 11°ML08'28 46.21710 AU 1°M59'55 15°51'16 min. Earth dist. minimum elong 2°M03'51 46.93194 AU -9263 Dec 30 j 15:06 -9254 Jul 11 i 14:41 11°M06'02 -17°13'17 max. Earth dist. opposition -9254 Sep 30 j 09:00 -9262 Apr 10 j 18:43 3°M-37'14 direct 10°ML05'14 retrograde -9262 Jun 30 j 17:20 min. Earth dist. 2°M36'53 45.09152 AU -9262 Jul 03 j 04:34 -9253 Jan 07 j 02:12 2°M33'56 -16°35'53 conjunction 11°M35'59 -16°32'34 opposition -9253 Jan 07 j 02:07 -9262 Sep 21 j 15:21 1°M32'14 11°M35'59 16°32'54 direct minimum elong -9253 Jan 09 j 06:42 11°M39'07 48.19142 AU max. Earth dist. -9262 Dec 29 j 07:46  $3^{\circ}$ ML05'03 -15°56'58 -9253 Apr 20 j 14:25 conjunction retrograde 13°ML10'33 -9262 Dec 29 j 07:39 -9253 Jul 10 j 22:03 minimum elong 3°M05'03 15°57'13 min. Earth dist. 12°M10'48 46.33865 AU max. Earth dist. -9262 Dec 31 j 21:59 3°ML08'52 47.08957 AU opposition -9253 Jul 12 j 21:22 12°ML08'29 -17°16'27 retrograde -9261 Apr 12 j 02:07 4°M42'03 direct -9253 Oct 01 j 14:28 11°M07'46 min. Earth dist. -9261 Jul 02 j 02:26 3°M41'49 45.24845 AU opposition -9261 Jul 04 j 12:25 3°M38'56 -16°41'44 conjunction -9252 Jan 08 j 09:59 12°M38'16 -16°35'33 -9261 Sep 23 j 00:20  $2^{\circ}$ M $_{3}7'23$ -9252 Jan 08 j 09:56 12°MJ38'16 16°35'53 direct minimum elong max. Earth dist. -9252 Jan 10 j 13:26 12°M41'20 48.31102 AU -9261 Dec 30 j 16:36 4°ML09'57 -16°02'33 -9252 Apr 20 j 22:34 14°M12'33 conjunction retrograde -9261 Dec 30 j 16:28 4°ML09'56 16°02'48 -9252 Jul 11 j 04:25 13°ML12'55 46.45721 AU minimum elong min. Earth dist. -9260 Jan 02 i 06:45 max. Earth dist. opposition -9252 Jul 13 i 03:40 13°ML10'36 -17°19'16 -9260 Apr 12 j 08:01 retrograde 5°M46'39 direct -9252 Oct 01 j 19:33 12°M09′57 min. Earth dist. -9260 Jul 02 j 11:41 4°ML46'30 45.40131 AU -9251 Jan 08 j 17:30 opposition -9260 Jul 04 i 19:56 4° 1143'42 -16°47'14 conjunction 13°M40'15 -16°38'12 direct -9260 Sep 23 j 10:37 3°M42'18 minimum elong -9251 Jan 08 i 17:25 13°ML40'14 16°38'32 max. Earth dist. -9251 Jan 10 j 19:19 13°M43'12 48.42770 AU -9260 Dec 31 j 01:16 5°ML14'36 -16°07'48 -9251 Mar 16 j 11:55 15°M₀ conjunction -9260 Dec 31 j 01:10 -9251 Apr 22 j 05:18 15°**M**₊14'15 minimum elong 5°M-14'36 16°08'04 retrograde -9259 Jan 02 j 13:05 max. Earth dist. 5°M18'15 47.39343 AU -9251 May 29 j 00:42 15°RM 6°M51'01 -9251 Jul 12 j 12:15 retrograde -9259 Apr 13 j 17:36 min. Earth dist. 14°M 14'39 46.57300 AU 14°M12'25 -17°21'44 min. Earth dist. -9259 Jul 03 j 19:40 5°M51'00 45.54960 AU opposition -9251 Jul 14 j 10:06 -9259 Jul 06 j 03:25 5°M48'14 -16°52'23 direct -9251 Oct 03 j 02:42 13°M11'52 opposition -9259 Sep 24 j 17:07 4°M46'59 direct -9250 Jan 10 j 00:52 14°M41'57 -16°40'31 conjunction -9258 Jan 01 j 09:41 6°M19'01 -16°12'43 -9250 Jan 10 j 00:50 conjunction minimum elong 14°M41'57 16°40'52 -9258 Jan 01 j 09:35 -9250 Jan 12 j 02:50 minimum elong 6°M19'01 16°12'59 max. Earth dist. 14°M44'54 48.54159 AU max. Earth dist. -9258 Jan 03 j 20:31 6°ML22'35 47.53828 AU -9250 Jan 22 j 19:41 15°M retrograde -9258 Apr 15 j 02:51 7°M55'08 retrograde -9250 Apr 23 j 08:24 16°M15'42 min. Earth dist. -9258 Jul 05 j 05:32 6°M55'09 45.69275 AU min. Earth dist. -9250 Jul 13 j 19:33 15°M16'11 46.68566 AU opposition -9258 Jul 07 j 10:55 6°M52'30 -16°57'13 opposition -9250 Jul 15 j 16:19 15°M13'59 -17°23'53 -9258 Sep 25 j 23:31 5°M51'22 -9250 Jul 27 j 17:00 15°RM direct

direct

-9250 Oct 04 j 12:39

14°M13'33

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-		ne year -9250 in astronomical			
rittention, astronom	-9250 Dec 10 j 09:26	-	minimum elong	-9241 Jan 19 j 16:58	23°M47'16 16°48'35
	7200 2 <b>00</b> 10 j 07.20	10 110	max. Earth dist.	-9241 Jan 21 j 05:30	23°M49'23 49.37842 AU
conjunction	-9249 Jan 11 j 08:13	15°M43'25 -16°42'30	retrograde	-9241 May 02 j 19:54	25°M18'58
minimum elong	-9249 Jan 11 j 08:19	15°M43'25 16°42'52	min. Earth dist.	-9241 Jul 23 j 10:48	24°M19'44 47.50422 AU
max. Earth dist.	-9249 Jan 13 j 07:59	15°M46'15 48.65240 AU		-9241 Jul 24 j 19:45	24°ML18'08 -17°29'46
retrograde	-9249 Apr 24 j 15:05	17°ML16'56	direct	-9241 Oct 13 j 19:11	23°M18'16
min. Earth dist.	-9249 Jul 15 j 02:03	16°ML17'31 46.79507 AU		-9241 Oct 13 j 19.11	23 1161010
opposition	-9249 Jul 16 j 22:20	16°M15'21 -17°25'41	conjunction	-9240 Jan 20 j 23:44	24°ML46'36 -16°47'36
direct	-9249 Oct 05 j 19:23	15°M15'01	minimum elong	-9240 Jan 20 j 23:44	24°M46'36 16°48'02
direct	-9249 Oct 05 j 19.25	13 1161301	max. Earth dist.	-9240 Jan 22 j 12:09	24°M48'42 49.45071 AU
conjunction	-9248 Jan 12 j 15:38	16°M44'42 -16°44'12	retrograde	-9240 May 02 j 22:50	26°M18'06
minimum elong	-9248 Jan 12 j 15:36	16°M44'42 16°44'35	min. Earth dist.	-9240 Jul 23 j 16:52	25°M18'54 47.57487 AU
max. Earth dist.	-9248 Jan 14 j 14:49	16°M47'29 48.75955 AU	opposition	-9240 Jul 25 j 00:57	25°M17'21 -17°28'57
retrograde	-9248 Apr 24 j 22:13	18°ML18'00	direct	-9240 Oct 14 j 03:39	24°M17'33
min. Earth dist.	-9248 Jul 15 j 10:28	17°ML18'35 46.90043 AU		-7240 OCI 14 J 05.57	24 IIG17 33
opposition	-9248 Jul 17 j 04:25	17°M16'33 -17°27'12	conjunction	-9239 Jan 21 j 06:13	25°M45'45 -16°46'44
direct	-9248 Oct 06 j 01:49	16°M16'18	minimum elong	-9239 Jan 21 j 06:15	25°M45'45 16°47'10
direct	7240 Oct 00 j 01.47	10 110 10	max. Earth dist.	-9239 Jan 22 j 16:28	25°M47'44 49.52015 AU
conjunction	-9247 Jan 12 j 23:01	17° <b>M</b> 45'48 -16°45'35	retrograde	-9239 May 04 j 03:54	27°M17'05
minimum elong	-9247 Jan 12 j 23:59	17°ML45'48 16°45'58	min. Earth dist.	-9239 Jul 24 j 22:22	26°M17'57 47.64278 AU
max. Earth dist.	-9247 Jan 14 j 20:42	17°M43'48 10 43'38 17°M48'29 48.86248 AU		-9239 Jul 26 j 06:03	26°M16'26 -17°27'50
	-9247 Apr 26 j 06:25	19°ML18'52	direct	-9239 Oct 15 j 10:06	25°M16'41
retrograde min. Earth dist.	-9247 Apr 26 j 06:25 -9247 Jul 16 j 16:49	18°ML19'33 47.00116 AU		-9239 Oct 13 J 10.00	23 IIG1U41
opposition	-9247 Jul 18 j 10:14	18°ML17'32 -17°28'24	conjunction	-9238 Jan 22 j 12:43	26°M44'46 -16°45'35
direct	-9247 Oct 07 j 06:45	17°M17'22	minimum elong	-9238 Jan 22 j 12:44	26°M44'47 16°46'01
direct	-7247 Oct 07 J 00.43	1/ 1101/22	max. Earth dist.	-9238 Jan 23 j 22:40	26°M46'44 49.58680 AU
conjunction	-9246 Jan 14 j 06:13	18°M46'43 -16°46'42	retrograde	-9238 May 05 j 09:21	28°M15'57
minimum elong	-9246 Jan 14 j 06:12	18°M46'43 16°47'06	min. Earth dist.	-9238 Jul 26 j 05:25	27°M16'51 47.70775 AU
max. Earth dist.	-9246 Jan 16 j 01:45	18°M49'16 48.96049 AU	opposition	-9238 Jul 27 j 11:10	27°M15'25 -17°26'25
retrograde	-9246 Apr 27 j 14:42	20°M19'32	direct	-9238 Oct 16 j 16:15	26°M15'44
min. Earth dist.	-9246 Jul 18 j 00:45	19°M20'13 47.09689 AU		-9238 Oct 10 j 10.13	20 11513 44
opposition	-9246 Jul 19 j 16:11	19°M 18'19 -17°29'20	conjunction	-9237 Jan 23 j 19:07	27°ML43'43 -16°44'07
direct	-9246 Oct 08 j 11:34	18°M 18'13	minimum elong	-9237 Jan 23 j 19:10	27°M43'43 16°44'34
direct	-7240 Oct 00 j 11.54	10 110 13	max. Earth dist.	-9237 Jan 25 j 03:51	27°ML45'36 49.65057 AU
conjunction	-9245 Jan 15 j 13:26	19°M47'23 -16°47'33	retrograde	-9237 May 06 j 17:05	29°M14'45
minimum elong	-9245 Jan 15 j 13:25	19°ML47'23 16°47'56	min. Earth dist.	-9237 Jul 27 j 10:35	28°M15'45 47.76945 AU
max. Earth dist.	-9245 Jan 17 j 08:18	19°M49'53 49.05345 AU		-9237 Jul 28 j 16:08	28°M14'19 -17°24'42
retrograde	-9245 Apr 28 j 18:37	21°M 19'58	direct	-9237 Oct 17 j 19:49	27°M14'44
min. Earth dist.	-9245 Jul 19 j 08:01	20°M20'41 47.18724 AU	direct	7257 OCC 17 J 17.47	27 1101777
opposition	-9245 Jul 20 j 21:58	20°M18'50 -17°30'00	conjunction	-9236 Jan 25 j 01:34	28°M42'38 -16°42'24
direct	-9245 Oct 09 j 20:19	19° <b>M</b> .18'48	minimum elong	-9236 Jan 25 j 01:35	28°M42'38 16°42'51
	72.0 000 07 j 20.17	19 110 10	max. Earth dist.	-9236 Jan 26 j 08:25	28°ML44'24 49.71068 AU
conjunction	-9244 Jan 16 j 20:33	20°ML47'47 -16°48'07	man. Darin digi.	-9236 Mar 31 j 22:22	0° <b>∡</b> 7
minimum elong	-9244 Jan 16 j 20:32	20°M47'46 16°48'32	retrograde	-9236 May 07 j 02:01	0° <b>∡</b> 13'31
max. Earth dist.	-9244 Jan 18 j 12:49	20°M50'08 49.14123 AU	•	-9236 Jun 12 j 04:10	30°RML
retrograde	-9244 Apr 28 j 23:29	22°M20'08	opposition	-9236 Jul 28 j 21:03	29°M13'11 -17°22'43
min. Earth dist.	-9244 Jul 19 i 14:32	21°M20'52 47.27266 AU	**	-9236 Jul 27 j 17:32	29°M14'31 47.82731 AU
opposition	-9244 Jul 21 j 03:31	21°M19'05 -17°30'22	direct	-9236 Oct 17 j 22:13	28°M13'40
direct	-9244 Oct 10 j 03:42	20°M19'05		, <u>,</u>	
	. <b>,</b> –		conjunction	-9235 Jan 25 j 08:09	29°M41'30 -16°40'24
conjunction	-9243 Jan 17 j 03:35	21°M47'53 -16°48'26	minimum elong	-9235 Jan 25 j 08:12	29°M41'30 16°40'52
minimum elong	-9243 Jan 17 j 03:34	21°M47'53 16°48'49	max. Earth dist.	-9235 Jan 26 j 14:28	29°ML43'14 49.76670 AU
max. Earth dist.	-9243 Jan 18 j 19:08	21°M50'11 49.22421 AU		-9235 Feb 07 j 20:27	0° <b>∡</b> 1
retrograde	-9243 Apr 30 j 05:40	23°M20'01	retrograde	-9235 May 08 j 06:25	1° <b>∡</b> 12'14
min. Earth dist.	-9243 Jul 20 j 22:15	22°M20'44 47.35351 AU	•	-9235 Jul 28 j 23:45	0° <b>≯</b> 13'16 47.88055 AU
opposition	-9243 Jul 22 j 09:07	22°M19'02 -17°30'28	opposition	-9235 Jul 30 j 01:59	0° <b>∡</b> 12'01 -17°20'28
direct	-9243 Oct 11 j 10:06	21°MJ9'05	••	-9235 Aug 09 j 14:13	30°RM
	Ž		direct	-9235 Oct 19 j 05:04	29°M12'33
conjunction	-9242 Jan 18 j 10:17	22°M47'43 -16°48'27		-9235 Dec 27 j 05:07	0° <b>∡</b> ¹
minimum elong	-9242 Jan 18 j 10:16	22°M47'42 16°48'52		·	
max. Earth dist.	-9242 Jan 20 j 00:27	22°M49'56 49.30312 AU	conjunction	-9234 Jan 26 j 14:23	0° <b>∡</b> ′40′17 -16°38′10
retrograde	-9242 May 01 j 13:23	24°M19'37	minimum elong	-9234 Jan 26 j 14:25	0° <b>∡</b> ′40′18 16°38′37
min. Earth dist.	-9242 Jul 22 j 03:46	23°M20'23 47.43049 AU	_	-9234 Jan 27 j 18:05	0° <b>⊀</b> 41'53 49.81789 AU
opposition	-9242 Jul 23 j 14:27	23°M18'43 -17°30'16	retrograde	-9234 May 09 j 10:17	2° <b>⊀</b> 10'54
direct	-9242 Oct 12 j 14:00	22°M18'48	min. Earth dist.	-9234 Jul 30 j 05:46	1° <b>⊀</b> 11'58 47.92880 AU
			opposition	-9234 Jul 31 j 06:54	1° <b>⊀</b> 10'45 -17°17'58
conjunction	-9241 Jan 19 j 16:57	23°M47'16 -16°48'10	direct	-9234 Oct 20 j 11:46	0° <b>⊀</b> 11′20

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9233 in astronomical counting style is the year 9234 BCE in historical counting style. -9233 Jan 27 j 20:52 1° ₹38'59 -16°35'41 retrograde -9225 May 18 j 10:23 10°**х** 51'32 conjunction opposition -9233 Jan 27 j 20:56 1°**∡**38'59 16°36'09 -9225 Aug 08 j 23:58 9°**x**<sup>7</sup>51'49 -16°43'53 minimum elong -9233 Jan 28 j 23:38 min. Earth dist. -9225 Aug 08 j 10:19 9° ₹ 52'28 48.16476 AU max. Earth dist. 1°**х** 40'31 49.86383 AU -9225 Oct 29 j 10:36 8°**х** 52'31 -9233 May 10 j 14:08 3°×709'28 direct retrograde 2°**₹**09'22 -17°15'14 -9233 Aug 01 j 11:44 opposition -9224 Feb 06 j 04:01 10°**х** 19'34 -16°01'56 min. Earth dist. -9233 Jul 31 j 12:59 2°**≯**10'28 47.97162 AU conjunction -9233 Oct 21 j 19:23 -9224 Feb 06 j 04:08 10° ₹ 19'34 16°02'27 direct 1°**х** 09′59 minimum elong -9224 Feb 06 j 17:55 max. Earth dist. 10°**✗**20′21 50.08843 AU conjunction -9232 Jan 29 j 03:21 2°**∡**37'31 -16°32'58 retrograde -9224 May 18 j 15:23 11°**х** 48′56 minimum elong -9232 Jan 29 j 03:24 2°**х** 37'32 16°33'26 opposition -9224 Aug 09 j 04:22 10°**х** 49′19 -16°38′45 max. Earth dist. -9232 Jan 30 j 04:07 2°**҂**38'57 49.90460 AU min. Earth dist. -9224 Aug 08 j 15:51 10°**尽**49'54 48.17321 AU -9224 Oct 29 j 15:38 retrograde -9232 May 10 j 21:32 4°**∡**°07'50 direct 9°**х** 50′03 -9232 Aug 01 j 16:27 opposition 3°**∡**07'48 -17°12'15 min. Earth dist. -9232 Jul 31 j 18:13 3°**尽**08'52 48.00925 AU conjunction -9223 Feb 06 j 10:05 11°**∡**17'05 -15°56'54 direct -9232 Oct 21 j 23:11 2°**х¹**08′25 minimum elong -9223 Feb 06 j 10:10 11°**∡**17′06 15°57'24 max. Earth dist. -9223 Feb 06 j 23:11 11°**尽**17'50 50.09538 AU conjunction -9231 Jan 29 j 09:34 3°**∡**35'52 -16°30'00 retrograde -9223 May 19 j 18:23 12°**х** 46′25 minimum elong -9231 Jan 29 j 09:37 3° x 35'52 16°30'30 opposition -9223 Aug 10 j 08:48 11°**∡**¹46'51 -16°33'23 max. Earth dist. -9231 Jan 30 j 08:22 3°**尽**37'10 49.94024 AU min. Earth dist. -9223 Aug 09 j 22:27 11°**∡**747'21 48.17693 AU retrograde -9231 May 12 j 04:22 5°**х**¹06′01 direct -9223 Oct 30 j 22:58 10°**х** 47'37 opposition -9231 Aug 02 j 21:09 4°**₹**06'01 -17°09'00 min. Earth dist. -9231 Aug 02 j 01:08 4°**✗**06'59 48.04214 AU conjunction -9222 Feb 07 i 16:09 12°**х** 14'40 -15°51'37 direct -9231 Oct 23 j 02:34 3°**х** 06′38 minimum elong -9222 Feb 07 i 16:17 12°**х** 14'40 15°52'08 max. Earth dist. -9222 Feb 08 i 03:21 12°**≯**15'18 50.09754 AU conjunction -9230 Jan 30 j 15:50 4°**∡**33'59 -16°26'47 retrograde -9222 May 21 j 01:18 13°**х** 43′56 -9230 Jan 30 j 15:55 -9222 Aug 11 j 13:06 12°**x**<sup>7</sup>44'26 -16°27'46 minimum elong 4° x 33'59 16°27'16 opposition max. Earth dist. -9230 Jan 31 j 14:11 4°**∡**35'15 49.97157 AU -9222 Aug 11 j 03:24 12° ₹ 44'53 48.17553 AU min Earth dist -9230 May 13 j 08:09 6°**х**¹03'58 -9222 Nov 01 j 02:28 11°**х** 45′12 retrograde direct -9230 Aug 03 j 06:33 5°**尽**04'55 48.07084 AU min. Earth dist. 13°**∡**12'15 -15°46'07 -9230 Aug 04 j 01:41 5°**х** 04'01 -17°05'30 -9221 Feb 08 j 22:11 opposition conjunction -9230 Oct 24 j 09:28 4°**х** 04'37 -9221 Feb 08 j 22:18 direct minimum elong 13° **2** 12'15 15° 46'37 -9221 Feb 09 j 07:09 13°**✗**12'45 50.09428 AU max. Earth dist. -9221 May 22 j 08:58 -9229 Jan 31 j 21:51 conjunction 5°**х** 31'53 -16°23'19 14°**х** 41′28 retrograde 13°**х** 42′00 -16°21′56 -9229 Jan 31 j 21:55 -9221 Aug 12 j 17:35 minimum elong 5° ₹31'53 16°23'49 opposition -9229 Feb 01 j 17:48 -9221 Aug 12 j 10:19 13°**х** 42'21 48.16863 AU max. Earth dist. 5°**✗**33'01 49.99906 AU min. Earth dist. -9229 May 14 j 12:13 -9221 Nov 02 j 04:30 12°**х** 42'47 retrograde 7°×701'43 direct -9229 Aug 04 j 11:56 min. Earth dist. 6°**✗**02'40 48.09600 AU opposition -9229 Aug 05 j 06:13 6°**∡**01'48 -17°01'44 conjunction -9220 Feb 10 j 04:24 14°**₹**09'49 -15°40'23 direct -9229 Oct 25 j 15:51 5°**х¹**02'24 minimum elong -9220 Feb 10 j 04:31 14°**₹**09'49 15°40'55 max. Earth dist. -9220 Feb 10 j 12:27 14°**✗**10'16 50.08559 AU conjunction -9228 Feb 02 j 04:03 6°**₹**29'35 -16°19'35 retrograde -9220 May 22 j 13:07 15°**х** 38'57 -9228 Feb 02 j 04:09 6° ₹29'36 16°20'04 -9220 Aug 12 j 21:50 14°**∡**³39'31 -16°15'53 minimum elong opposition max. Earth dist. -9228 Feb 02 j 23:37 6°**₹**<sup>3</sup>0'42 50.02310 AU min. Earth dist. -9220 Aug 12 j 15:42 14°**₰**39'48 48.15625 AU -9228 May 14 j 15:39 7°**∡**¹59'19 -9220 Nov 02 j 11:00 13°**∡**¹40'16 retrograde direct -9228 Aug 05 j 10:42 6°**₹**59'25 -16°57'41 opposition -9219 Feb 10 i 10:21 15°**∡**07'18 -15°34'26 min. Earth dist. -9228 Aug 04 j 18:18 7°**∡**00'12 48.11782 AU conjunction direct -9228 Oct 25 j 22:36 6°**х** 00′02 minimum elong -9219 Feb 10 i 10:29 15°**∡**07'19 15°34'57 max. Earth dist. -9219 Feb 10 i 15:40 15°**₹**07'36 50.07175 AU -9227 Feb 02 i 10:07 conjunction 7°**₹**27'09 -16°15'34 retrograde -9219 May 23 j 16:56 16°**х** 36′22 opposition minimum elong -9227 Feb 02 i 10:11 7°**∡**<sup>1</sup>27'09 16°16'04 -9219 Aug 14 i 02:07 15°**х** 36′56 -16°09′35 max. Earth dist. -9227 Feb 03 j 04:18 7°**尽**28'11 50.04418 AU min. Earth dist. -9219 Aug 13 j 21:11 15° ₹37'11 48.13906 AU retrograde -9227 May 15 j 21:35 8°**х** 56'46 direct -9219 Nov 03 j 17:13 14°**₹**37'40 -9227 Aug 06 j 15:08 7° ₹ 56'56 -16°53'22 opposition min. Earth dist. -9227 Aug 05 j 22:46 7°**≯**57'43 48.13666 AU conjunction -9218 Feb 11 j 16:12 16°**∡**04'42 -15°28'14 direct -9227 Oct 27 j 02:56 6°**х** 57'34 minimum elong -9218 Feb 11 j 16:19 16°**₹**04'42 15°28'47 -9218 Feb 11 j 20:56 max. Earth dist. 16°**₹**04'58 50.05326 AU 8°**₹**24'38 -16°11'17 conjunction -9226 Feb 03 j 15:54 retrograde -9218 May 24 j 19:35 17°**х** 33'43 -9226 Feb 03 j 16:00 8°**∡**124'38 16°11'47 -9218 Aug 15 j 06:26 16°**₹**34'16 -16°03'02 minimum elong opposition 8°**✗**¹25'34 50.06219 AU -9218 Aug 15 j 03:32 16°**∡**³34'25 48.11747 AU max. Earth dist. -9226 Feb 04 j 08:30 min. Earth dist. -9218 Nov 05 j 00:26 15°**∡**³34'58 retrograde -9226 May 17 j 05:37 9°×754'09 direct opposition -9226 Aug 07 j 19:41 8°**∡**754'23 -16°48'45 min. Earth dist. -9226 Aug 07 j 05:05 8°**≯**55'04 48.15245 AU conjunction -9217 Feb 12 j 22:08 17°**∡**'01'59 -15°21'48 direct -9226 Oct 28 j 05:14 7°**х** 55′03 minimum elong -9217 Feb 12 j 22:16 17°**≯**02'00 15°22'20 max. Earth dist. -9217 Feb 13 j 01:19 17°**✗**02'10 50.03088 AU retrograde conjunction -9225 Feb 04 j 22:00 9°**х** 22′05 -16°06′44 -9217 May 26 j 00:43 18°**х** 30′57 minimum elong -9225 Feb 04 j 22:05 9°**∡**22'06 16°07'15 -9217 Aug 16 j 10:28 17°**∡**131'31 -15°56'13 opposition max. Earth dist. -9225 Feb 05 j 14:18 9°**₹**23'01 50.07713 AU min. Earth dist. -9217 Aug 16 j 07:46 17°**∡**31'39 48.09222 AU

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 14 Attention, astronomical year style is used: The year -9217 in astronomical counting style is the year 9218 BCE in historical counting style.

Attention, astronomi	cal year style is used: Th	e year -9217 i	in astronomical cou	nting style is the year	9218 BCE in historical c	ounting style.	
direct	-9217 Nov 06 j 05:16	16° <b>∡</b> ³32′10		conjunction	-9209 Feb 20 j 21:41	24° <b>∡</b> °40′07	-14°21'05
				minimum elong	-9209 Feb 20 j 21:51	24° <b>∡</b> °40′07	14°21'39
conjunction	-9216 Feb 14 j 04:03	17° <b>∡</b> 759'11	-15°15'06	max. Earth dist.	-9209 Feb 20 j 13:18	24° <b>∡</b> ³39'38	49.73195 AU
minimum elong	-9216 Feb 14 j 04:10	17° <b>₹</b> ′59'12	15°15'39	morning rise	-9209 Feb 25 j 15:19	24° <b>∡</b> ¹46'32	
max. Earth dist.	-9216 Feb 14 j 05:27	17° <b>∡</b> 759'16	50.00496 AU	retrograde	-9209 Jun 02 j 20:50	26° <b>₹</b> ′09'01	
retrograde	-9216 May 26 j 08:36	19° <b>∡</b> ¹28'06		opposition	-9209 Aug 23 j 20:18	25° <b>₹</b> 09'41	
opposition	-9216 Aug 16 j 14:45	18° <b>∡</b> ¹28'41	-15°49'09	min. Earth dist.	-9209 Aug 24 j 03:55		47.76852 AU
min. Earth dist.	-9216 Aug 16 j 13:58		48.06373 AU	direct	-9209 Nov 13 j 16:44	24° <b>∡</b> 10′08	
direct	-9216 Nov 06 j 07:26	17° <b>∡</b> ¹29'18		evening set	-9208 Feb 16 j 22:54	25° <b>х</b> 30′33	
		=					
conjunction	-9215 Feb 14 j 09:55	18° <b>∡</b> 56′21		conjunction	-9208 Feb 22 j 03:59	25° <b>∡</b> ³37'38	
minimum elong	-9215 Feb 14 j 10:04		15°08'41	minimum elong	-9208 Feb 22 j 04:09		14°12'58
max. Earth dist.	-9215 Feb 14 j 11:11		49.97606 AU	max. Earth dist.	-9208 Feb 21 j 18:39		49.67512 AU
retrograde	-9215 May 27 j 14:16	20° 🗷 25'13	15041140	morning rise	-9208 Feb 27 j 09:28	25° 🖈 44'43	
opposition	-9215 Aug 17 j 18:55	19° 🗷 25'48		retrograde	-9208 Jun 02 j 23:48	27°×706'32	1.49.42!12
min. Earth dist.	-9215 Aug 17 j 18:40		48.03222 AU	opposition min. Earth dist.	-9208 Aug 24 j 00:44	26° <b>₹</b> 07'12	47.70777 AU
direct	-9215 Nov 07 j 11:23	18° <b>∡</b> 726′24		direct	-9208 Aug 24 j 10:29 -9208 Nov 14 j 00:08	26 <b>x</b> · 06 44 25° <b>x</b> 07'35	47.70777 AU
conjunction	-9214 Feb 15 j 15:40	19° <b>∡</b> 53′29	15000'56	evening set	-9207 Feb 16 j 18:04	26° <b>x</b> 27'27	
minimum elong	-9214 Feb 15 j 15:48	19° <b>x</b> 53'29		evening set	-920/ PCU 10 J 18.04	20 * 2/2/	
max. Earth dist.	-9214 Feb 15 j 14:44		49.94434 AU	conjunction	-9207 Feb 22 j 10:00	26° <b>∡</b> ³35′09	-14°03'32
retrograde	-9214 May 28 j 19:44	21° <b>x</b> 22'20	47.74434 AO	minimum elong	-9207 Feb 22 j 10:10	26° <b>х</b> 35'09	14°04'06
opposition	-9214 Aug 18 j 23:04	20° × 22'56	-15°34'11	max. Earth dist.	-9207 Feb 21 j 22:48	26° <b>x</b> 33'07	
min. Earth dist.	-9214 Aug 18 j 23:42		47.99798 AU	morning rise	-9207 Feb 28 j 02:22	26° × 42'52	47.01331 710
direct	-9214 Nov 08 j 15:37	19°×723'31	17.55750110	retrograde	-9207 Jun 04 j 04:19	28°×704'04	
evening set	-9213 Feb 15 j 00:32	20° <b>×</b> <sup>7</sup> 48'06		opposition	-9207 Aug 25 j 04:59	27° <b>×7</b> 04'42	-14°33'52
evening sec	72131 <b>c</b> 0 13 j 00.32	20 % 10 00		min. Earth dist.	-9207 Aug 25 j 15:10		47.64224 AU
conjunction	-9213 Feb 16 j 21:37	20° <b>₹</b> ′50'39	-14°53'27	direct	-9207 Nov 15 j 05:39	26°×705'01	17.01221710
minimum elong	-9213 Feb 16 j 21:47	20° <b>×</b> 750'39		evening set	-9206 Feb 17 j 13:47	27° <b>×7</b> 24'23	
max. Earth dist.	-9213 Feb 16 j 20:15		49.90971 AU		,, ,,	-, , -, -, -,	
morning rise	-9213 Feb 18 j 19:03	20° <b>₹</b> '53'13		conjunction	-9206 Feb 23 j 16:05	27° <b>∡</b> ³32'39	-13°54'24
retrograde	-9213 May 29 j 21:00	22° <b>∡</b> 19'30		minimum elong	-9206 Feb 23 j 16:15	27° <b>∡</b> ³32'40	13°54'57
opposition	-9213 Aug 20 j 03:20	21° <b>∡</b> °20′07	-15°26'18	max. Earth dist.	-9206 Feb 23 j 02:56	27° <b>∡</b> ³31'54	49.54687 AU
min. Earth dist.	-9213 Aug 20 j 05:44	21° <b>∡</b> °20′00	47.96051 AU	morning rise	-9206 Mar 01 j 18:52	27° <b>∡</b> ¹40'58	
direct	-9213 Nov 09 j 23:51	20° <b>х</b> 20'41		retrograde	-9206 Jun 05 j 11:12	29° <b>х</b> ⁴01'36	
evening set	-9212 Feb 15 j 07:28	21° <b>∡</b> ¹44′01		opposition	-9206 Aug 26 j 09:18	28° <b>∡</b> 02′12	-14°24'17
				min. Earth dist.	-9206 Aug 26 j 21:39	28° <b>∡</b> 101'36	47.57248 AU
conjunction	-9212 Feb 18 j 03:36	21° <b>∡</b> ¹47'53	-14°45'43	direct	-9206 Nov 16 j 08:53	27° <b>∡</b> ¹02'26	
minimum elong	-9212 Feb 18 j 03:44	21° <b>х</b> 47'53	14°46'16	evening set	-9205 Feb 18 j 10:11	28° <b>₹</b> ¹21'20	
max. Earth dist.	-9212 Feb 18 j 00:40	21° <b>∡</b> ¹47'43	49.87181 AU				
morning rise	-9212 Feb 21 j 00:03	21° <b>∡</b> 751'45		conjunction	-9205 Feb 24 j 22:16	28° <b>∡</b> ³30′10	-13°45'01
retrograde	-9212 May 30 j 02:10	23° <b>∡</b> 16'44		minimum elong	-9205 Feb 24 j 22:26	28° <b>∡</b> ³30′10	13°45'36
opposition	-9212 Aug 20 j 07:24	22° <b>∡</b> 17′23	-15°18'10	max. Earth dist.	-9205 Feb 24 j 08:44	28° <b>₹</b> ¹29'24	49.47658 AU
min. Earth dist.	-9212 Aug 20 j 10:13		47.91946 AU	morning rise	-9205 Mar 03 j 10:43	28° <b>₹</b> ³39'02	
direct	-9212 Nov 10 j 04:49	21° <b>∡</b> 17'56		retrograde	-9205 Jun 06 j 17:19	29° <b>₹</b> 59'08	
evening set	-9211 Feb 14 j 20:04	22° <b>∡</b> ¹40'22		opposition	-9205 Aug 27 j 13:37	28° <b>₹</b> 59'42	
		_		min. Earth dist.	-9205 Aug 28 j 02:39		47.49895 AU
conjunction	-9211 Feb 18 j 09:36	22° <b>∡</b> ¹45'12		direct	-9205 Nov 17 j 13:04	27° <b>₹</b> 159'52	
minimum elong	-9211 Feb 18 j 09:46	22° <b>×</b> <sup>7</sup> 45'13	14°38'18	evening set	-9204 Feb 19 j 07:00	29° <b>⊀</b> 18′20	
max. Earth dist.	-9211 Feb 18 j 04:48		49.82988 AU				
morning rise	-9211 Feb 21 j 23:31	22° 🗷 50'04		conjunction	-9204 Feb 26 j 04:19	29° <b>х</b> 27'42	
retrograde	-9211 May 31 j 10:11	24° 🖈 14'05	1,500,014.6	minimum elong	-9204 Feb 26 j 04:30	29° <b>х</b> 27'43	
opposition	-9211 Aug 21 j 11:45	23° 🖈 14'45		max. Earth dist.	-9204 Feb 25 j 12:28		49.40279 AU
min. Earth dist.	-9211 Aug 21 j 16:52		47.87418 AU	morning rise	-9204 Mar 04 j 02:10	29° <b>∡</b> 37'05	
direct	-9211 Nov 11 j 06:29	22° 🖈 15'17			-9204 Mar 21 j 09:57	0°る	
evening set	-9210 Feb 15 j 11:22	23° <b>∡</b> ¹36'58		retrograde	-9204 Jun 06 j 23:43	0°る56'43	
conjunction	-9210 Feb 19 j 15:36	23° <b>∡</b> ¹42'37	-14020122	opposition	-9204 Aug 25 j 08:20 -9204 Aug 27 j 17:54	30°₹ <b>৴</b> 29° <b>৴</b> 57'15	-14°04'21
minimum elong	-9210 Feb 19 j 15:36 -9210 Feb 19 j 15:45	23° <b>x</b> '42'37 23° <b>x</b> '42'38	-14°29'32 14°30'04	opposition min. Earth dist.	-9204 Aug 27 j 17:54 -9204 Aug 28 j 07:56		-14°04'21 47.42231 AU
max. Earth dist.	-9210 Feb 19 j 10:03		49.78348 AU	direct	-9204 Aug 28 j 07.36 -9204 Nov 17 j 17:05	28° <b>х</b> 57'21	71.74431 AU
max. Earth dist.	-9210 Feb 19 j 10:03 -9210 Feb 23 j 20:10	23° <b>x</b> '42'19 23° <b>x</b> '48'19	77.70J70 AU	uncet	-9204 Nov 17 j 17:05 -9203 Feb 07 j 14:42	0°る	
retrograde	-9210 Feb 23 j 20.10 -9210 Jun 01 j 15:18	25° <b>₹</b> 11'31		evening set	-9203 Feb  07 j 14.42 -9203 Feb  19 j 04:08	0°る15'25	
opposition	-9210 Juli 01 j 13.18 -9210 Aug 22 j 16:03	24° <b>x</b> 11'31	-15°01'09	evening set	7203 FCU 17 J U4.08	0 01323	
min. Earth dist.	-9210 Aug 22 j 10:03		47.82393 AU	conjunction	-9203 Feb 26 j 10:31	0° <b>る</b> 25'19	-13°25'29
direct	-9210 Nov 12 j 11:51	23° × 12'42	.7.02373 AU	minimum elong	-9203 Feb 26 j 10:41	0° <b>る</b> 25'19	
evening set	-9209 Feb 16 j 04:31	24° × 33'43		max. Earth dist.	-9203 Feb 25 j 18:16		49.32602 AU
	22 20,0			morning rise	-9203 Mar 05 j 17:17	0° <b>る</b> 35'13	
						555.15	

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9203 in astronomical counting style is the year 9204 BCE in historical counting style. -9203 Jun 08 i 01:37 1°る54'23 max. Earth dist. -9196 Mar 04 j 04:31 7°る12'32 48.69353 AU retrograde opposition -9203 Aug 28 j 22:25 0°る54'54 -13°53'58 min. Earth dist. -9203 Aug 29 j 13:56 0°る54'09 47.34275 AU conjunction -9196 Mar 05 j 07:37 7°る14'06 -12°09'02 -9203 Oct 28 j 08:00 30°R*X* -9196 Mar 05 j 07:49 7°る14'06 12°09'37 minimum elong 29°**х** 54'57 direct -9203 Nov 19 j 00:50 -9196 Mar 14 j 21:16 7°る27'13 morning rise -9203 Dec 10 j 14:37 0°정 -9196 Jun 14 j 18:42 8°る43'58 retrograde 7°る44'20 -12°33'54 -9202 Feb 20 j 01:37 -9196 Sep 04 j 06:57 evening set 1°る12'40 opposition 7°る43'08 46.68535 AU -9196 Sep 05 j 07:54 min. Earth dist. 6°**ප**43'57 -9196 Nov 25 j 12:06 conjunction -9202 Feb 27 j 16:31 1°る23'02 -13°15'20 direct -9202 Feb 27 j 16:42 minimum elong 1°る23'03 13°15'53 evening set -9195 Feb 24 j 18:15 7°る59'45 1°る22'03 49.24663 AU max. Earth dist. -9202 Feb 26 j 23:02 max. Earth dist. -9195 Mar 05 j 10:40 8°정11'40 48.58439 AU -9202 Mar 07 j 07:52 1°る33'27 morning rise -9202 Jun 09 j 06:21 2°る52'13 -9195 Mar 06 j 14:29 retrograde conjunction 8°**る**13'16 -11°57'08 opposition -9202 Aug 30 j 02:49 1°る52'43 -13°43'18 minimum elong -9195 Mar 06 j 14:40 8°る13'17 11°57'42 min. Earth dist. -9202 Aug 30 j 18:26 1°る51'58 47.26051 AU morning rise -9195 Mar 16 j 10:55 8°る26'49 direct -9202 Nov 20 j 06:33 0°る52'43 retrograde -9195 Jun 16 j 02:18 9°**る**43'15 evening set -9201 Feb 20 j 23:28 2°る10'06 opposition -9195 Sep 05 j 11:52 8°る43'33 -12°21'27 min. Earth dist. -9195 Sep 06 j 13:34 8°る42'18 46.57219 AU conjunction -9201 Feb 28 j 22:46 2°る20'57 -13°04'54 direct -9195 Nov 26 j 16:08 7°る43'03 minimum elong -9201 Feb 28 j 22:57 2°る20'58 13°05'28 evening set -9194 Feb 25 j 18:10 8°**궁**58'37 max. Earth dist. -9201 Feb 28 j 03:38 2°る19'52 49.16435 AU morning rise -9201 Mar 08 j 22:32 2°る31'51 conjunction -9194 Mar 07 j 21:06 9°**ට**12'32 -11°45'00 retrograde -9201 Jun 10 j 14:49 3°る50'14 minimum elong -9194 Mar 07 i 21:17 9°**ට**12'33 11°45'35 opposition -9201 Aug 31 i 07:18 2°る50'44 -13°32'23 max. Earth dist. -9194 Mar 06 i 14:37 9°る10'47 48.47050 AU min. Earth dist. -9201 Sep 01 j 00:58 2°る49'53 47.17532 AU morning rise -9194 Mar 18 i 00:27 9°**ප**26'30 -9201 Nov 21 j 08:13 1°る50'42 -9194 Jun 17 j 10:33 10°る42'37 direct retrograde -9200 Feb 21 j 21:54 3°る07'47 -9194 Sep 06 j 16:49 9°**ප්**42'50 -12°08'45 evening set opposition -9200 Feb 29 i 09:43 3°る17'59 49.07900 AU -9194 Sep 07 j 20:00 9°る41'31 46.45463 AU max. Earth dist. min. Earth dist. -9194 Nov 27 j 19:50 8°る42'12 direct -9200 Mar 01 j 05:15 3°る19'06 -12°54'13 -9193 Feb 26 j 18:24 9°る57'34 conjunction evening set -9200 Mar 01 j 05:27 3°る19'07 12°54'48 -9193 Mar 07 j 21:02 10°る10'06 48.35235 AU max. Earth dist. minimum elong -9200 Mar 09 j 12:58 3°**る**30'28 morning rise -9200 Jun 10 j 20:51 -9193 Mar 09 j 04:05 10°る11'53 -11°32'37 4°₹48'29 conjunction retrograde 3°₹48'59 -13°21'11 -9193 Mar 09 j 04:17 -9200 Aug 31 j 11:51 10°る11'54 11°33'10 opposition minimum elong -9200 Sep 01 j 06:09 3°る48'07 47.08662 AU -9193 Mar 19 j 13:56 10°**る**26'14 min. Earth dist. morning rise -9200 Nov 21 j 12:47 2°る48'55 -9193 Jun 18 j 13:55 11°**る**42'05 direct retrograde -9199 Feb 21 j 20:26 4°る05'43 -9193 Sep 07 j 21:49 10°る42'13 -11°55'47 evening set opposition min. Earth dist. -9193 Sep 09 j 02:38 10°る40'49 46.33305 AU conjunction -9199 Mar 02 j 11:31 4°る17'30 -12°43'17 direct -9193 Nov 29 j 03:42 9°る41'27 minimum elong -9199 Mar 02 j 11:41 4°る17'31 12°43'51 evening set -9192 Feb 27 j 18:59 10°る56'37 max. Earth dist. -9199 Mar 01 j 13:31 4°る16'15 48.98984 AU max. Earth dist. -9192 Mar 08 j 02:24 11°る09'26 48.23065 AU -9199 Mar 11 j 03:06 4°る29'20 morning rise -9199 Jun 12 j 03:50 5°る47'01 -9192 Mar 09 j 11:01 11°**ට**11'20 -11°19'58 retrograde conjunction -9199 Sep 01 j 16:30 4°る47'30 -13°09'44 -9192 Mar 09 j 11:12 11°る11'20 11°20'32 opposition minimum elong -9199 Sep 02 j 12:15 4°る46'33 46.99390 AU -9192 Mar 20 j 03:18 11°**♂**26'04 min. Earth dist. morning rise 3°る47'22 -9192 Jun 18 j 17:40 12°**る**41'39 direct -9199 Nov 22 j 17:09 retrograde -9198 Feb 22 j 19:22 5°る03'55 -9192 Sep 08 i 02:53 11°**ට**41'41 -11°42'32 evening set opposition 11°る40'16 46.20821 AU min. Earth dist. -9192 Sep 09 i 08:00 -9198 Mar 03 j 18:09 5°る16'10 -12°32'06 10°**ප්**40'48 conjunction direct -9192 Nov 29 j 11:38 evening set -9198 Mar 03 i 18:21 5°**ප**16'11 12°32'41 -9191 Feb 27 i 19:29 11°**る**55'47 minimum elong max. Earth dist. -9198 Mar 02 j 19:24 5°る14'52 48.89619 AU max. Earth dist. -9191 Mar 09 j 07:45 12°る08'55 48.10571 AU -9198 Mar 12 j 17:16 5°₹28'26 morning rise -9198 Jun 13 j 07:13 6°₹45'48 -9191 Mar 10 j 17:51 12°る10'53 -11°07'02 retrograde conjunction -9191 Mar 10 j 18:03 5°る46'16 -12°58'02 12°**ට**10'54 11°07'36 opposition -9198 Sep 02 j 21:14 minimum elong 12°る26'00 min. Earth dist. -9198 Sep 03 j 19:03 5°る45'13 46.89631 AU morning rise -9191 Mar 21 j 16:26 direct -9198 Nov 24 j 01:09 4°₹46'04 retrograde -9191 Jun 20 j 00:27 13°る41'22 -9197 Feb 23 j 18:48 6°る02'22 opposition -9191 Sep 09 j 08:11 12°る41'19 -11°29'01 evening set -9191 Sep 10 j 15:09 -9197 Mar 03 j 23:56 6°る13'37 48.79759 AU min. Earth dist. 12°る39'49 46.08041 AU max. Earth dist. -9191 Nov 30 j 16:25 11°る40'18 direct -9197 Mar 05 j 00:50 6°る15'03 -12°20'41 -9190 Feb 28 j 20:22 12°る55'08 conjunction evening set -9197 Mar 05 j 01:01 6°る15'03 12°21'15 -9190 Mar 10 j 14:33 13°る08'37 47.97811 AU minimum elong max. Earth dist. morning rise -9197 Mar 14 j 07:16 6°る27'45 retrograde -9197 Jun 14 j 11:58 7°る44'47 conjunction -9190 Mar 12 j 00:55 13°る10'37 -10°53'51 opposition -9197 Sep 04 j 02:01 6°る45'13 -12°46'05 minimum elong -9190 Mar 12 j 01:07 13°る10'37 10°54'25 min. Earth dist. -9197 Sep 05 j 00:27 6°る44'08 46.79350 AU morning rise -9190 Mar 23 j 05:30 13°**る**26'07 -9197 Nov 25 j 07:36 5°る44'57 -9190 Jun 21 j 07:06 14°**ප්**41'17 direct retrograde

-9196 Feb 24 j 18:22

evening set

7°る01'00

-9190 Sep 10 j 13:21

opposition

13°る41'09 -11°15'11

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9190 in astronomical counting style is the year 9191 BCE in historical counting style. morning rise -9190 Sep 11 j 20:33 13°る39'38 45.94988 AU -9183 Apr 01 j 01:12 20°る35'43 min. Earth dist. -9190 Dec 01 j 21:16 12°る40'02 -9183 Jun 28 j 10:41 21°る49'57 direct retrograde -9189 Mar 01 j 21:33 13°る54'43 opposition -9183 Sep 17 j 05:42 20°**ප්**49'16 -9°30'35 evening set -9183 Sep 18 j 22:47 max. Earth dist. -9189 Mar 11 j 19:27 14°る08'28 47.84777 AU min. Earth dist. 20°る47'15 44.93029 AU -9183 Dec 08 j 14:21 direct 19°**る**47'17 -9189 Mar 13 j 08:02 14°る10'35 -10°40'22 conjunction evening set -9182 Mar 07 j 13:24 21°**る**01'36 -9189 Mar 13 j 08:14 minimum elong 14°**る**10'36 10°40'57 max. Earth dist. -9182 Mar 18 j 15:15 21°る17'13 46.82369 AU morning rise -9189 Mar 24 j 18:45 14°**ට**26'29 retrograde -9189 Jun 22 j 15:52 15°**る**41'27 conjunction -9182 Mar 20 j 13:58 21°**ට**19'59 -8°58'36 opposition -9189 Sep 11 j 18:44 14°る41'15 -11°01'05 minimum elong -9182 Mar 20 j 14:09 21°**る**20'00 8°59'09 min. Earth dist. -9189 Sep 13 j 03:17 14°る39'40 45.81658 AU morning rise -9182 Apr 02 j 14:17 21°る38'23 -9189 Dec 03 j 01:18 -9182 Jun 29 j 15:35 direct 13°る40'02 retrograde 22°る52'30 -9182 Sep 18 j 11:44 evening set -9188 Mar 01 j 22:54 14°る54'37 opposition 21°る51'42 -9°14'32 max. Earth dist. -9188 Mar 12 j 02:28 15°る08'43 47.71437 AU min. Earth dist. -9182 Sep 20 j 05:27 21°る49'38 44.76652 AU direct -9182 Dec 09 j 23:35 20°る49'32 conjunction -9188 Mar 13 j 15:24 15°る10'52 -10°26'38 evening set -9181 Mar 08 j 16:41 22°る03'50 minimum elong -9188 Mar 13 j 15:35 15°る10'53 10°27'12 max. Earth dist. -9181 Mar 19 j 21:52 22°る19'41 46.65939 AU morning rise -9188 Mar 25 j 07:47 15°**る**27'08 16°**ප්**41'56 retrograde -9188 Jun 22 j 21:03 conjunction -9181 Mar 21 j 22:13 22°る22'34 -8°43'00 opposition -9188 Sep 12 j 00:16 15°る41'41 -10°46'41 minimum elong -9181 Mar 21 j 22:24 22°**る**22'35 min. Earth dist. -9188 Sep 13 j 10:20 15°る40'01 45.67993 AU morning rise -9181 Apr 04 j 03:20 22°る41'18 direct -9188 Dec 03 i 09:08 14°る40'22 retrograde -9181 Jun 30 j 21:55 23°る55'21 evening set -9187 Mar 03 i 00:41 15°る54'54 opposition -9181 Sep 19 i 18:09 22°る54'24 -8°58'11 max. Earth dist. -9187 Mar 13 j 08:04 16°る09'15 47.57754 AU min. Earth dist. -9181 Sep 21 i 13:58 22°る52'14 44.59905 AU direct -9181 Dec 11 j 07:07 21°る52'03 -9187 Mar 14 j 22:46 16°**ට**11'31 -10°12'37 -9180 Mar 08 j 20:14 23°**る**06'21 conjunction evening set -9187 Mar 14 j 22:58 16°ප11'31 10°13'11 max. Earth dist. -9180 Mar 20 j 05:46 23°る22'31 46.49179 AU minimum elong -9187 Mar 26 j 20:53 16°る28'08 morning rise -9187 Jun 24 j 03:11 -9180 Mar 22 j 06:31 23°**る**25'25 -8°27'07 17°**る**42'48 conjunction retrograde -9187 Sep 13 j 05:48 16°る42'30 -10°32'01 -9180 Mar 22 j 06:42 minimum elong 23°**る**25'26 8°27'39 opposition -9187 Sep 14 j 16:20 23°**る**44'28 -9180 Apr 04 j 16:11 min. Earth dist. 16°る40'49 45.53958 AU morning rise -9187 Dec 04 j 15:50 -9180 Jul 01 j 05:36 24° **궁**58'28 15°**る**41'04 direct retrograde -9180 Sep 20 j 00:33 23°중57'24 -8°41'32 -9186 Mar 04 j 02:30 16°**る**55'32 evening set opposition -9186 Mar 14 j 13:46 17°る10'09 47.43644 AU -9180 Sep 21 j 20:27 23°る55'13 44.42853 AU max. Earth dist. min. Earth dist. -9180 Dec 11 j 13:04 22°**る**54'52 direct 24°**ප**09'10 -9186 Mar 16 j 06:15 17°る12'31 -9°58'20 -9179 Mar 10 j 00:03 conjunction evening set -9179 Mar 21 j 11:59 24°る25'32 46.32139 AU minimum elong -9186 Mar 16 j 06:26 17°**る**12'32 9°58'53 max. Earth dist. morning rise -9186 Mar 28 j 09:56 17°**る**29'31 retrograde -9186 Jun 25 j 10:00 18°**る**44'04 conjunction -9179 Mar 23 j 14:49 24°る28'34 -8°10'56 -9186 Sep 14 j 11:39 17°る43'42 -10°17'04 minimum elong -9179 Mar 23 j 14:59 24°る28'35 8°11'30 opposition min. Earth dist. -9186 Sep 16 j 00:38 17°る41'53 45.39468 AU morning rise -9179 Apr 06 j 05:09 24°る47'57 -9186 Dec 05 j 21:38 16°る42'09 -9179 Jul 02 j 15:52 26°**궁**01'55 direct retrograde -9185 Mar 05 j 04:54 17°**る**56'34 -9179 Sep 21 j 07:11 25°**ප්**00'42 -8°24'35 evening set opposition max. Earth dist. -9185 Mar 15 j 20:47 18°る11'28 47.29063 AU min. Earth dist. -9179 Sep 23 j 04:29 24°る58'27 44.25560 AU -9179 Dec 12 j 17:36 23°**る**57'59 direct conjunction -9185 Mar 17 j 14:07 18°る13'54 -9°43'47 evening set -9178 Mar 11 i 03:55 25°る12'20 minimum elong -9185 Mar 17 j 14:19 18°る13'55 9°44'21 max. Earth dist. -9178 Mar 22 j 20:30 25°る29'02 46.14864 AU -9185 Mar 29 i 23:04 morning rise 18°る31'15 retrograde -9185 Jun 26 i 18:12 19°る45'42 conjunction -9178 Mar 24 i 23:20 25°る32'04 -7°54'29 minimum elong -9185 Sep 15 j 17:27 18°る45'15 -10°01'51 -9178 Mar 24 i 23:31 25°る32'05 7°55'01 opposition min. Earth dist. -9185 Sep 17 j 07:12 18°る43'23 45.24478 AU -9178 Apr 07 j 17:53 25°**ප**51'47 morning rise -9185 Dec 07 j 02:52 17°る43'34 -9178 Jul 03 j 23:57 27°る05'43 direct retrograde -9184 Mar 05 j 07:37 18°る57'56 -9178 Sep 22 j 14:01 26°**ට**04'22 -8°07'19 evening set opposition max. Earth dist. -9184 Mar 16 j 01:47 19°る13'02 47.13975 AU min. Earth dist. -9178 Sep 24 j 12:15 26°る02'04 44.08029 AU -9178 Dec 14 j 01:31 direct 25°る01'29 conjunction -9184 Mar 17 j 21:59 19°る15'38 -9°28'59 evening set -9177 Mar 12 j 08:26 26°る15'55 -9184 Mar 17 j 22:11 19°る15'39 9°29'32 max. Earth dist. -9177 Mar 24 j 03:30 26°る32'49 45.97369 AU minimum elong 19°**る**33'20 -9184 Mar 30 j 12:19 morning rise -9184 Jun 27 j 04:35 20°る47'40 -9177 Mar 26 j 08:00 26°る35'58 -7°37'43 retrograde conjunction -9184 Sep 15 j 23:31 19°る47'07 -9°46'21 26°**る**35'59 7°38'15 opposition minimum elong -9177 Mar 26 j 08:10 19°る45'10 45.08995 AU 26°る56'00 min. Earth dist. -9184 Sep 17 j 15:01 morning rise -9177 Apr 09 j 06:55 -9184 Dec 07 j 06:32 18°**ප්**45'17 retrograde -9177 Jul 05 j 08:38 28°る09'57 direct evening set -9183 Mar 06 j 10:15 19°**る**59'37 opposition -9177 Sep 23 j 20:49 27°る08'28 -7°49'44 max. Earth dist. -9183 Mar 17 j 09:07 20°る15'02 46.98393 AU min. Earth dist. -9177 Sep 25 j 19:21 27°る06'08 43.90280 AU direct -9177 Dec 15 j 09:21 26°る05'25 -9183 Mar 19 j 05:57 20°る17'40 -9°13'56 -9176 Mar 12 j 13:10 27°る19'57 conjunction evening set -9183 Mar 19 j 06:08 20°る17'41 9°14'30 max. Earth dist. -9176 Mar 24 j 11:24 27°る37'06 45.79623 AU minimum elong

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9176 in astronomical counting style is the year 9177 BCE in historical counting style. morning rise -9176 Mar 26 i 16:59 27°る40'20 -7°20'40 -9170 Apr 18 j 02:54 4°≈39'18 conjunction -9176 Mar 26 i 17:09 27°₹40'21 7°21'12 -9170 Jul 12 j 21:08 5°≈53'48 minimum elong retrograde -9176 Apr 09 j 19:54 28°**ප**00'41 opposition -9170 Oct 01 j 03:05 4°≈51'15 -5°38'04 morning rise -9170 Oct 03 j 10:22 -9176 Jul 05 j 14:45 29°る14'40 min. Earth dist. 4°≈48'25 42.56017 AU retrograde -9170 Dec 22 j 18:54 -9176 Sep 24 j 04:04 opposition 28°る13'04 -7°31'51 direct 3°≈46'47 -9176 Sep 26 j 04:35 min. Earth dist. 28°る10'38 43.72267 AU evening set -9169 Mar 20 j 08:30 5°≈02'26 5°≈20'58 44.44846 AU direct -9176 Dec 15 j 17:58 27°**る**09'51 max. Earth dist. -9169 Apr 01 j 21:20 evening set -9175 Mar 13 j 18:07 28°**る**24'30 max. Earth dist. -9175 Mar 25 j 19:54 28°る41'54 45.61597 AU conjunction -9169 Apr 04 j 13:06 5°≈24'56 -5°13'12 minimum elong -9169 Apr 04 j 13:14 5°**≈**24'57 5°13'41 -9169 Apr 19 j 16:16 conjunction -9175 Mar 28 j 01:57 28°る45'11 -7°03'19 morning rise 5°≈47'23 -9175 Mar 28 j 02:07 -9169 Jul 14 j 08:06 minimum elong 28°る45'12 7°03'51 retrograde 7°≈02'02 -9175 Apr 11 j 08:47 -9169 Oct 02 j 11:35 morning rise 29°る05'52 opposition 5°≈59'17 -5°18'01 -9175 May 25 j 22:05 0°≈ min. Earth dist. -9169 Oct 04 j 20:48 5°≈56'20 42.35268 AU retrograde -9175 Jul 06 j 22:26 0°≈19'54 direct -9169 Dec 24 j 01:48 4°≈54'34 -9175 Aug 18 j 10:32 30°Rる evening set -9168 Mar 20 j 16:06 6°≈10'27 opposition -9175 Sep 25 j 11:20 29°る18'11 -7°13'39 max. Earth dist. -9168 Apr 02 j 07:58 6°≈29'15 44.24053 AU min. Earth dist. -9175 Sep 27 j 12:08 29°る15'43 43.53936 AU direct -9175 Dec 17 j 01:55 28°る14'47 conjunction -9168 Apr 04 j 23:45 6°≈33'14 -4°53'50 evening set -9174 Mar 14 j 23:38 29°る29'34 minimum elong -9168 Apr 04 j 23:52 6°≈33'15 4°54'20 max. Earth dist. -9174 Mar 27 j 02:43 29°る47'08 45.43210 AU morning rise -9168 Apr 20 j 05:33 6°≈55'57 retrograde -9168 Jul 14 i 18:59 8°≈10'46 conjunction -9174 Mar 29 i 11:14 29°る50'35 -6°45'41 opposition -9168 Oct 02 j 20:27 7°≈07'49 -4°57'39 minimum elong -9174 Mar 29 j 11:24 29°る50'35 6°46'13 min. Earth dist. -9168 Oct 05 i 06:16 7°≈04'50 42.14242 AU -9174 Apr 04 j 21:58 0°≈ direct -9168 Dec 24 j 10:22 6°≈02'52 -9174 Apr 12 j 21:57 -9167 Mar 22 j 00:02 7°≈19'00 0°≈11'33 evening set morning rise -9174 Jul 08 j 10:20 max. Earth dist. -9167 Apr 03 j 16:39 7°≈37'57 44.03019 AU 1°225'40 retrograde -9174 Sep 26 j 18:47 0°223'49 -6°55'08 opposition -9174 Sep 28 j 21:32 0°≈21'15 43.35227 AU -9167 Apr 06 j 10:13 7°≈42'04 -4°34'09 min. Earth dist. conjunction -9167 Apr 06 j 10:21 -9174 Oct 16 j 20:49 30°Ŗる minimum elong 7°≈42'04 4°34'38 -9174 Dec 18 j 06:00 29°る20'14 -9167 Apr 21 j 18:49 8°≈05'03 direct morning rise -9167 Jul 16 j 07:36 -9173 Feb 17 j 18:34 9°≈20'04 0°≈ retrograde -9167 Oct 04 j 05:26 evening set -9173 Mar 16 j 05:29 0°≈35'10 8°≈16'55 -4°36'57 opposition max. Earth dist. -9173 Mar 28 j 11:56 -9167 Oct 06 j 15:45 0°≈53'00 45.24406 AU min. Earth dist. 8°≈13'54 41.93011 AU -9167 Dec 25 j 18:40 direct 7°≈11'42 0°≈56'29 -6°27'46 -9173 Mar 30 j 20:58 -9166 Mar 23 j 08:24 conjunction evening set 8°≈28'09 -9173 Mar 30 j 21:07 -9166 Apr 05 j 03:09 minimum elong 0°≈56'30 6°28'17 max. Earth dist. 8°≈47'19 43.81774 AU morning rise -9173 Apr 14 j 11:08 1°≈17'46 retrograde -9173 Jul 09 j 19:34 2°≈31'58 conjunction -9166 Apr 07 j 21:16 8°≈51'30 -4°14'10 -9173 Sep 28 j 02:39 1°≈29'58 -6°36'20 minimum elong -9166 Apr 07 j 21:22 8°≈51'30 4°14'40 opposition min. Earth dist. -9173 Sep 30 j 06:40 1°≈27'19 43.16071 AU morning rise -9166 Apr 23 j 08:08 9°≈14'45 -9173 Dec 19 j 14:01 0°≈26'11 -9166 Jul 17 j 16:37 10°≈29'59 direct retrograde -9172 Mar 16 j 11:47 1°≈41'17 -9166 Oct 05 j 14:42 9°≈26'38 -4°15'55 evening set opposition -9172 Mar 28 j 19:24 1°≈59'16 45.05152 AU min. Earth dist. -9166 Oct 08 j 02:35 9°≈23'32 41.71588 AU max. Earth dist. -9166 Dec 27 j 05:15 8°**≈**21'12 direct conjunction -9172 Mar 31 i 06:39 2°≈02'54 -6°09'33 evening set -9165 Mar 24 i 17:21 9°≈37'58 -9172 Mar 31 i 06:48 minimum elong 2°≈02'55 6°10'05 max. Earth dist. -9165 Apr 06 j 13:48 9°≈57'20 43.60361 AU morning rise -9172 Apr 15 i 00:25 2°≈24'29 -9165 Apr 09 i 08:31 retrograde -9172 Jul 10 i 05:19 3°≈38'46 conjunction 10°≈01'35 -3°53'53 minimum elong -9172 Sep 28 j 10:33 2°≈36'36 -6°17'13 -9165 Apr 09 i 08:38 10°≈01'35 3°54'22 opposition min. Earth dist. -9172 Sep 30 j 15:30 2°≈33'54 42.96472 AU -9165 Apr 24 j 21:44 10°≈25'06 morning rise -9172 Dec 19 j 22:58 1°≈32'36 -9165 Jul 19 j 01:29 11°≈40'36 direct retrograde -9171 Mar 17 j 18:18 10°≈37'05 -3°54'34 2°≈47'52 -9165 Oct 07 j 00:13 evening set opposition max. Earth dist. -9171 Mar 30 j 03:59 3°≈06'03 44.85444 AU min. Earth dist. -9165 Oct 09 j 11:59 10°≈33'57 41.49993 AU direct -9165 Dec 28 j 16:38 9°≈31'24 conjunction -9171 Apr 01 j 16:41 3°≈09'48 -5°51'04 evening set -9164 Mar 25 j 02:42 10°≈48'32 -9171 Apr 01 j 16:49 3°≈09'48 5°51'34 max. Earth dist. -9164 Apr 06 j 23:28 11°≈08'02 43.38746 AU minimum elong -9171 Apr 16 j 13:38 morning rise 3°≈31'40 -9171 Jul 11 j 12:56 -9164 Apr 09 j 19:59 retrograde 4°≈46'03 conjunction 11°≈12'25 -3°33'18 -9164 Apr 09 j 20:05 opposition -9171 Sep 29 j 18:48 3°≈43'41 -5°57'48 minimum elong 11°≈12'25 3°33'47 -9171 Oct 02 j 01:51 -9164 Apr 25 j 11:14 min. Earth dist. 3°≈40'53 42.76438 AU morning rise 11°**≈**36′11 -9164 Jul 19 j 13:28 -9171 Dec 21 j 09:24 2°≈39'28 retrograde 12°≈51'59 direct evening set -9170 Mar 19 j 01:08 3°≈54'55 opposition -9164 Oct 07 j 10:06 11°≈48'17 -3°32'54 max. Earth dist. -9170 Mar 31 j 13:11 4°≈13'19 44.65334 AU min. Earth dist. -9164 Oct 09 j 23:38 11°≈45'03 41.28198 AU direct -9164 Dec 29 j 00:13 10°≈42'24 -9170 Apr 03 j 02:45 4°≈17'08 -5°32'17 -9163 Mar 26 j 12:29 conjunction evening set 11°≈59'54 -9170 Apr 03 j 02:54 4°≈17'09 5°32'48 max. Earth dist. -9163 Apr 08 j 11:25 minimum elong 12°≈19'39 43.16908 AU

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9163 in astronomical counting style is the year 9164 BCE in historical counting style. morning rise -9163 Apr 11 i 07:50 12°≈24'03 -3°12'24 -9157 May 05 j 13:23 20°≈16'13 conjunction -9157 Jul 29 i 07:23 -9163 Apr 11 j 07:56 21°≈34'42 minimum elong 12°≈24'03 3°12'53 retrograde -9163 Apr 27 j 00:52 -9157 Oct 16 j 15:50 12° 248'04 20°\29'20 -0°52'04 morning rise opposition -9163 Jul 21 j 01:13 -9157 Oct 19 j 13:06 14°≈04'12 min. Earth dist. 20°≈25'35 39.66479 AU retrograde -9156 Jan 07 j 03:41 -9163 Oct 08 j 20:12 19°**≈**21'25 opposition 13°≈00'19 -3°10'53 direct min. Earth dist. -9163 Oct 11 j 10:13 12°≈57'03 41.06147 AU evening set -9156 Apr 04 j 00:21 20°≈42'16 11°**≈**54'12 direct -9163 Dec 30 j 09:08 max. Earth dist. -9156 Apr 16 j 22:18 21°≈02'48 41.54352 AU evening set -9162 Mar 27 j 22:53 13°≈12'08 max. Earth dist. -9162 Apr 09 j 21:16 13°≈31'57 42.94779 AU conjunction -9156 Apr 20 j 03:29 21°≈07'58 -0°37'51 minimum elong -9156 Apr 20 j 03:30 21°**≈**07'58 0°38'15 conjunction -9162 Apr 12 j 19:52 13°≈36'31 -2°51'13 morning rise -9156 May 06 j 03:31 21°≈33'31 -9162 Apr 12 j 19:57 -9156 Jul 29 j 20:59 minimum elong 13°**≈**36'31 2°51'40 retrograde 22°≈52'28 -9162 Apr 28 j 14:44 14°≈00'48 -9156 Oct 17 j 04:22 morning rise opposition 21°≈46'48 -0°27'49 -9162 Jun 14 j 19:03 15°≈ min. Earth dist. -9156 Oct 20 j 02:31 21°≈42'59 39.42167 AU retrograde -9162 Jul 22 j 16:07 15°≈17'16 direct -9155 Jan 07 j 16:11 20°≈38'32 -9162 Aug 29 j 18:45 15°R≈ evening set -9155 Apr 05 j 14:31 21°≈59'59 opposition -9162 Oct 10 j 06:37 14°≈13'11 -2°48'33 max. Earth dist. -9155 Apr 18 j 11:23 22°≈20'34 41.29985 AU min. Earth dist. -9162 Oct 12 j 21:56 14°≈09'51 40.83785 AU direct -9162 Dec 31 j 17:45 13°≈06'49 conjunction -9155 Apr 21 j 17:40 22°≈25'51 -0°14'37 evening set -9161 Mar 29 j 09:48 14°≈25'12 minimum elong -9155 Apr 21 j 17:41 22°≈25'51 max. Earth dist. -9161 Apr 11 j 09:07 14°≈45'12 42.72283 AU behind sun begin -9155 Apr 21 j 15:36 22°≈25'43 behind sun end -9155 Apr 21 i 19:45 22°≈25'59 conjunction -9161 Apr 14 i 08:29 14°≈49'50 -2°29'43 morning rise -9155 May 07 i 17:57 22°≈51'34 minimum elong -9161 Apr 14 j 08:34 14°≈49'50 2°30'10 retrograde -9155 Jul 31 j 12:15 24°≈11'02 -9161 Apr 20 j 21:01 15°≈ opposition -9155 Oct 18 i 17:01 23°≈05'03 -0°03'15 -9161 Apr 30 j 04:36 -9155 Oct 21 j 15:13 15° ≈ 14'20 min. Earth dist. 23°≈01'14 39.17734 AU morning rise -9161 Jul 24 j 04:38 -9155 Dec 05 j 13:59 16°≈31'11 asc. node 22°≈10'46 retrograde -9161 Oct 11 j 17:29 -9154 Jan 09 j 06:05 15°≈26'53 -2°25'54 direct 21°256'27 opposition -9161 Oct 14 j 10:34 -9154 Apr 07 j 05:10 min. Earth dist. 15°≈23'26 40 61039 AU 23°≈18'31 evening set -9161 Nov 02 j 11:06 -9154 Apr 20 j 01:09 23°≈39'12 41.05491 AU 15°R≈ max. Earth dist. -9160 Jan 02 j 06:18 direct 14°≈20'15 -9154 Apr 23 j 08:19 -9160 Mar 01 j 23:21 15°≈ conjunction 23°≈44'34 0°09'00 evening set -9160 Mar 29 j 21:23 15°≈39'05 -9154 Apr 23 j 08:19 23°**≈**44'34 minimum elong 0°08'37 max. Earth dist. -9160 Apr 11 j 20:27 -9154 Apr 23 j 02:40 15°≈59'12 42.49408 AU behind sun begin 23°≈44'12 -9154 Apr 23 j 13:57 behind sun end 23°**≈**44'56 -9160 Apr 14 j 21:18 -9154 May 09 j 08:19 conjunction 16°≈03'57 -2°07'56 morning rise 24°≈10'27 -9154 Aug 02 j 02:20 minimum elong -9160 Apr 14 j 21:22 16°≈03'57 2°08'22 retrograde 25°≈30′28 morning rise -9160 Apr 30 j 18:46 16°≈28'41 -9154 Oct 20 j 06:18 24°≈24'12 0°21'38 opposition retrograde -9160 Jul 24 j 17:25 17°≈45'54 min. Earth dist. -9154 Oct 23 j 05:59 24°≈20'16 38.93205 AU -9160 Oct 12 j 04:37 16°≈41'22 -2°02'55 direct -9153 Jan 10 j 20:19 23°≈15'14 opposition min. Earth dist. -9160 Oct 14 j 21:59 16°≈37'53 40.37914 AU -9153 Apr 08 j 20:35 24°≈37'59 evening set -9159 Jan 02 j 18:59 15°≈34'26 max. Earth dist. -9153 Apr 21 j 16:17 24°≈58'47 40.80926 AU direct -9159 Mar 31 j 09:14 16°≈53'46 evening set -9159 Apr 13 j 07:37 17°≈13'56 42.26130 AU -9153 Apr 24 j 23:21 25°≈04'12 0°32'46 max. Earth dist. conjunction -9153 Apr 24 j 23:20 25°≈04'12 0°32'23 minimum elong conjunction -9159 Apr 16 j 10:18 17°≈18'51 -1°45'51 morning rise -9153 May 10 j 22:55 25°≈30'13 minimum elong -9159 Apr 16 j 10:21 17°≈18'51 1°46'17 retrograde -9153 Aug 03 i 15:44 26°≈50'50 morning rise -9159 May 02 j 08:45 17°≈43'48 opposition -9153 Oct 21 i 19:49 25°≈44'18 0°46'49 retrograde -9159 Jul 26 i 04:07 19°≈01'25 min. Earth dist. -9153 Oct 24 i 19:03 25°≈40'22 38.68616 AU -9159 Oct 13 i 16:09 17°≈56'37 -1°39'38 direct -9152 Jan 12 i 10:50 24°≈35'00 opposition -9159 Oct 16 j 11:43 17°≈53'00 40.14412 AU -9152 Apr 09 j 12:44 25°≈58'28 min. Earth dist. evening set -9158 Jan 04 j 06:43 16°≈49'23 max. Earth dist. -9152 Apr 22 j 06:08 26°≈19'16 40.56288 AU direct -9158 Apr 01 j 21:44 evening set 18°≈09'11 max. Earth dist. -9158 Apr 14 j 20:50 18°≈29'31 42.02499 AU conjunction -9152 Apr 25 j 14:46 26°≈24'50 0°56'51 minimum elong -9152 Apr 25 j 14:44 26°≈24'50 0°56'29 conjunction -9158 Apr 17 j 23:47 18°≈34'29 -1°23'28 morning rise -9152 May 11 j 13:38 26°≈51′01 -9158 Apr 17 j 23:49 18°≈34'30 1°23'54 -9152 Aug 04 j 07:39 minimum elong retrograde 28°≈12'17 -9158 May 03 j 23:00 -9152 Oct 22 j 09:54 morning rise 18°≈59'39 opposition 27°≈05'27 1°12'18 -9158 Jul 27 j 15:44 -9152 Oct 25 j 10:27 retrograde 20°≈17'41 min. Earth dist. 27°≈01'26 38.43971 AU opposition -9158 Oct 15 j 03:46 19°≈12'37 -1°16'00 direct -9151 Jan 12 j 22:27 25°≈55'51 min. Earth dist. -9158 Oct 17 j 23:42 19°≈08'57 39.90577 AU evening set -9151 Apr 11 j 05:19 27°≈20'05 -9157 Jan 05 j 18:50 18°≈05'02 max. Earth dist. -9151 Apr 23 j 22:27 27°≈41'01 40.31563 AU direct evening set -9157 Apr 03 j 10:54 19°≈25'21 max. Earth dist. -9157 Apr 16 j 08:15 19°≈45'43 41.78552 AU conjunction -9151 Apr 27 j 06:33 27°**≈**46'34 1°21'11 minimum elong -9151 Apr 27 j 06:31 27°**≈**46'34 1°20'49 -9157 Apr 19 j 13:29 19°≈50'52 -1°00'48 -9151 May 13 j 04:18 28°≈12'53 conjunction morning rise -9157 Apr 19 j 13:31 19°≈50'52 1°01'14 29°**≈**34'52 minimum elong retrograde -9151 Aug 06 j 00:01

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9151 in astronomical counting style is the year 9152 BCE in historical counting style. -9151 Oct 24 i 00:24 28°≈27'45 1°38'04 max. Earth dist. -9144 May 03 j 21:04 7°**升**46'23 38.53172 AU opposition 28°≈23'41 38.19213 AU -9151 Oct 27 j 01:26 min. Earth dist. -9150 Jan 14 j 11:37 -9144 May 07 j 10:55 7°**¥**52'41 4°18'22 direct 27°≈17'50 conjunction 7°**¥**52'40 4°18'06 -9144 May 07 j 10:45 -9150 Apr 12 j 22:59 28°≈42'53 evening set minimum elong -9150 Apr 25 j 13:02 max. Earth dist. -9144 May 22 j 16:38 8°¥19'23 29°≈03'46 40.06700 AU morning rise -9144 Aug 16 j 07:35 9°**)**(47'24 retrograde -9144 Nov 02 j 19:35 conjunction -9150 Apr 28 j 22:50 29°≈09'30 1°45'47 opposition 8°**\(\)**37'56 4°45'59 29°**≈**09'30 minimum elong -9150 Apr 28 j 22:46 1°45'27 min. Earth dist. -9144 Nov 06 j 02:12 8°**₭**33'24 36.40821 AU -9150 May 14 j 19:26 -9143 Jan 24 j 01:51 morning rise 29°≈35'55 direct 7°**∺**25′20 -9150 May 30 j 02:12 0°**)**€ evening set -9143 Apr 24 j 00:32 8°**\**57'17 retrograde -9150 Aug 07 j 18:57 0°**)** 58'39 max. Earth dist. -9143 May 05 j 15:45 9°**升**17'45 38.27167 AU -9150 Oct 19 j 02:23 30°R≈ -9143 May 09 j 06:17 opposition -9150 Oct 25 j 15:09 29°≈51'15 2°04'08 conjunction 9°**\**24'10 4°44'30 min. Earth dist. -9150 Oct 28 j 16:49 29°≈47'08 37.94308 AU minimum elong -9143 May 09 j 06:07 9°**¥**24'09 4°44'14 direct -9149 Jan 16 j 00:09 28°≈41'00 morning rise -9143 May 24 j 08:29 9°**¥**50′50 -9149 Apr 10 j 11:24 0°**)**€ retrograde -9143 Aug 18 j 05:11 11°**¥**19'53 evening set -9149 Apr 14 j 17:23 0°**₩**06'56 opposition -9143 Nov 04 j 14:02 10°¥10'03 5°13'44 max. Earth dist. -9149 Apr 27 j 05:26 0°**¥**27'50 39.81630 AU min. Earth dist. -9143 Nov 07 j 20:15 10°**米**05'30 36.14969 AU direct -9142 Jan 25 j 19:28 8°**)** 57'00 conjunction -9149 Apr 30 j 15:48 0°**)** 33'39 2°10'38 evening set -9142 Apr 26 j 00:40 10°**)** 30′08 minimum elong -9149 Apr 30 j 15:44 0°**)**€33'38 2°10'18 max. Earth dist. -9142 May 07 j 11:36 10°**升**50′29 38.01202 AU morning rise -9149 May 16 i 10:37 1°**)**(00'10 retrograde -9149 Aug 09 j 11:53 2°\ 23'41 conjunction -9142 May 11 j 02:26 10°**¥**56'58 5°10'46 opposition -9149 Oct 27 i 06:46 1°**升**15′59 2°30′28 minimum elong -9142 May 11 i 02:15 10°**¥**56'57 5°10'31 min. Earth dist. -9149 Oct 30 j 10:01 1°**升**11'45 37.69187 AU morning rise -9142 May 26 j 00:25 11°**)** 23'34 -9148 Jan 17 j 16:17 0°\ 05'23 -9142 Aug 20 j 01:26 12°\ 53'43 direct retrograde -9142 Nov 06 j 09:08 11°**)** 43'30 5°41'39 -9148 Apr 15 j 12:34 1° # 32'13 opposition evening set -9148 Apr 27 j 21:58 1°**)** 53'07 39.56338 AU -9142 Nov 09 j 16:25 11°**)** 38′51 35.89207 AU max. Earth dist. min. Earth dist. -9141 Jan 27 j 15:41 10°**)** 30′02 direct -9148 May 01 j 08:59 1°**)** 59'01 2°35'44 evening set -9141 Apr 28 j 01:54 12°\ 04'25 conjunction -9148 May 01 j 08:54 -9141 May 09 j 08:55 1° **★**59'01 2°35'25 max. Earth dist. 12°**₭**24'39 37.75358 AU minimum elong -9148 May 17 j 01:57 2°**H**25'37 morning rise -9148 Aug 10 j 05:07 -9141 May 12 j 23:07 3°**¥**49'57 conjunction 12°**₭**31'09 5°37'10 retrograde -9148 Oct 27 j 22:43 2°**升**41'57 2°57'04 -9141 May 12 j 22:54 opposition minimum elong 12°**₭**31'08 5°36'55 -9148 Oct 31 j 01:55 2°**₭**37'42 37.43845 AU -9141 May 27 j 16:38 min. Earth dist. morning rise 12°**)** 57'40 -9147 Jan 18 j 10:02 -9141 Aug 21 j 22:25 direct 1°\dagger 30'59 retrograde 14°**)** 28'58 -9141 Nov 08 j 04:55 13° **★** 18'23 6°09'42 evening set -9147 Apr 17 j 08:34 2°**)** 58'45 opposition max. Earth dist. -9147 Apr 29 j 14:04 3°**升**19'33 39.30804 AU min. Earth dist. -9141 Nov 11 j 11:14 13°**光**13'45 35.63589 AU direct -9140 Jan 29 j 12:47 12°**)**€04'30 evening set conjunction -9147 May 03 j 02:47 3°¥25'38 3°01'05 -9140 Apr 29 j 03:59 13°**)** 40′12 -9147 May 03 j 02:40 3°**升**25'37 3°00'45 max. Earth dist. -9140 May 10 j 05:07 14°**₭**00'11 37.49649 AU minimum elong -9147 May 18 j 17:27 3°**¥**52'17 morning rise -9147 Aug 11 j 22:33 5°**升**17′28 -9140 May 13 j 20:13 14°\(\mathcal{H}\) 06'50 6°03'40 retrograde conjunction -9147 Oct 29 j 15:08 4°**)**€09'08 3°23'57 -9140 May 13 j 19:58 14°**)**€06'48 opposition minimum elong 6°03'26 -9147 Nov 01 j 20:11 4°**)**€04'45 37.18294 AU -9140 May 28 j 08:50 14°**)**€33'13 min. Earth dist. morning rise -9140 Aug 22 j 20:03 direct -9146 Jan 20 i 01:21 2°**)** 57'46 retrograde 16°**)**€05'46 evening set -9146 Apr 19 i 05:16 4° **\**26'31 opposition -9140 Nov 09 i 01:20 14°**)** 54'48 6°37'51 max. Earth dist. -9146 May 01 j 08:30 4°**)** 47'19 39.05070 AU min. Earth dist. -9140 Nov 12 i 08:33 14° ¥ 50'06 35.38133 AU direct -9139 Jan 30 i 06:53 13°\(\)40'32 -9146 May 04 j 21:03 4°\ 53'26 3°26'38 evening set -9139 May 01 i 07:08 15°**¥**17'37 conjunction -9146 May 04 j 20:56 4°\ 53'25 3°26'20 max. Earth dist. -9139 May 12 j 04:06 15°**)** 37'28 37.24082 AU minimum elong -9146 May 20 j 09:06 5°**¥**20′08 morning rise -9146 Aug 13 j 15:25 6°\ 46'12 -9139 May 15 j 18:05 15°**¥**44′05 6°30′14 retrograde conjunction -9146 Oct 31 j 08:05 opposition 5°**)**(37'31 3°51'04 minimum elong -9139 May 15 j 17:51 15°**)** 44'04 6°30'01 min. Earth dist. -9146 Nov 03 j 13:07 5°**¥**33'06 36.92557 AU morning rise -9139 May 30 j 01:14 16°**¥**10′19 -9145 Jan 21 j 18:39 4°**)**€25'45 retrograde -9139 Aug 24 j 16:47 17°**)** 44'10 direct -9145 Apr 21 j 02:59 5°**X**55'31 opposition -9139 Nov 10 j 22:19 16°**)** 32′51 7°06'07 evening set -9145 May 03 j 01:23 6°**¥**16′09 38.79170 AU min. Earth dist. -9139 Nov 14 j 05:11 16°**∺**28'09 35.12807 AU max. Earth dist. -9138 Feb 01 j 03:06 15°**)** 18'11 direct -9145 May 06 j 15:41 6°¥22'27 3°52'25 16°**)** 56'43 conjunction evening set -9138 May 03 j 11:34 17° **€** 16'14 36.98621 AU minimum elong -9145 May 06 j 15:33 6°**¥**22′26 3°52′07 max. Earth dist. -9138 May 14 j 01:24 morning rise -9145 May 22 j 00:53 6°**)**49'10 retrograde -9145 Aug 15 j 11:44 8°**)** 16'11 conjunction -9138 May 17 j 16:31 17°**)**€23'00 6°56'51 opposition -9145 Nov 02 j 01:28 7°**升**07′07 4°18′25 minimum elong -9138 May 17 j 16:14 17°**)** €22'59 6°56'40 min. Earth dist. -9145 Nov 05 j 07:28 7°**₭**02'38 36.66714 AU morning rise -9138 May 31 j 18:01 17°**)** 49'02 -9144 Jan 23 j 09:03 5°**¥**54'56 -9138 Aug 26 j 17:46 19°**)** 24'17 direct retrograde

7°**¥**25'45

-9144 Apr 22 j 01:20

evening set

-9138 Nov 12 j 20:01

opposition

18°**升**12'35 7°34'26

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9138 in astronomical counting style is the year 9139 BCE in historical counting style. -9138 Nov 16 i 03:09 18°**升**07'51 34.87581 AU conjunction -9131 May 30 j 00:43 29°**)** 43'50 10°02'22 min. Earth dist. -9137 Feb 02 j 21:13 16°**¥**57'31 -9131 May 30 j 00:20 29°**¥**43'48 10°02'18 direct minimum elong -9137 May 05 j 17:01 -9131 Jun 07 j 03:36  $0^{\circ}\Upsilon$ 18° ¥ 37'35 evening set max. Earth dist. -9137 May 16 j 01:13 -9131 Jun 10 j 18:39 0°Y07'10 18°**¥**56'51 36.73203 AU morning rise -9131 Sep 08 j 09:38 1°Y53'59 retrograde -9137 May 19 j 15:45 -9131 Nov 25 j 01:25 0°**Υ**39'19 conjunction 19°**₭**03'38 7°23'31 opposition 10°51'56 0°**Υ**34'20 33.12890 AU -9137 May 19 j 15:28 minimum elong 19°**₩**03'37 7°23'21 min. Earth dist. -9131 Nov 28 j 08:55 -9137 Jun 02 j 10:45 morning rise 19°**¥**29′26 -9131 Dec 22 j 10:01 30°**₹** -9137 Aug 28 j 17:34 29°\ 21'03 retrograde 21°**H**06'08 direct -9130 Feb 14 j 18:43  $0^{\circ}\Upsilon$ opposition -9137 Nov 14 j 18:39 19°**¥**54'04 8°02'48 -9130 Apr 08 j 15:24  $1^{\circ}$ **Y**13'46 min. Earth dist. -9137 Nov 18 j 02:34 19°**¥**49'15 34.62391 AU evening set -9130 May 20 j 18:11 1°Υ29'32 34.97211 AU direct -9136 Feb 04 j 17:35 18°**)** 38'34 max. Earth dist. -9130 May 28 j 15:13 evening set -9136 May 06 j 23:52 20°**¥**20′14 max. Earth dist. -9136 May 17 j 00:36 20°**)** 39'07 36.47820 AU conjunction -9130 Jun 01 j 04:40 1°**Y**36'42 10°28'15 minimum elong -9130 Jun 01 j 04:15 1°**Y**36'40 10°28'11 conjunction -9136 May 20 j 15:33 20°**)** 46′00 7°50'11 morning rise -9130 Jun 12 j 12:05 1°Y59'26 minimum elong -9136 May 20 j 15:15 20°**)** 45′58 7°50'01 retrograde -9130 Sep 10 j 13:59 3°**Y**48'14 morning rise -9136 Jun 03 j 03:52 21°**¥**11'31 opposition -9130 Nov 27 j 05:25 2°**Y**33'07 11°19'28 retrograde -9136 Aug 29 j 20:19 22°**)**(49'44 min. Earth dist. -9130 Nov 30 j 12:40 2°Υ28'07 32.88765 AU opposition -9136 Nov 15 j 17:54 21°**)**37'16 8°31'11 -9129 Feb 16 j 21:07 1°Y14'23 min. Earth dist. -9136 Nov 19 j 01:15 21°**)** 32'27 34.37242 AU evening set -9129 May 23 j 10:00 3°Y09'15 direct -9135 Feb 05 i 16:55 20°¥21'20 max. Earth dist. -9129 May 30 j 20:15 3°**Y**24'17 34.73002 AU -9135 May 09 i 07:37 22°\ 04'40 evening set max. Earth dist. -9135 May 19 j 00:35 22°\(\mathbf{2}\)23'07 36.22442 AU conjunction -9129 Jun 03 i 09:05 3°**Y**31'29 10°53'48 -9129 Jun 03 i 08:41 3°**Y**31′27 10°53'46 minimum elong -9135 May 22 j 16:02 22°\ 30'06 8°16'49 -9129 Jun 14 j 05:33 3°Y53'31 conjunction morning rise -9135 May 22 j 15:44 -9129 Sep 12 j 21:56 5°**Y**44'24 22°**)** € 30'04 8°16'41 retrograde minimum elong -9135 Jun 04 j 20:58 22°\ 55'18 -9129 Nov 29 j 10:08 4°**Υ**28'51 11°46'39 opposition morning rise -9135 Aug 31 j 22:44 -9129 Dec 02 j 15:49 4°Υ23'55 32.65070 AU 24°**)**€35'05 min. Earth dist. retrograde -9135 Nov 17 j 17:59 23°\(\frac{12}{22}\)'12 8°59'33 -9128 Feb 19 j 01:13 3°Y09'41 direct opposition -9128 May 25 j 03:10 -9135 Nov 21 j 02:34 evening set 5°**Y**06'49 min. Earth dist. 23°**光**17'16 34.12117 AU -9128 Jun 01 j 02:35 5°**Y**21'05 34.49225 AU -9134 Feb 07 j 16:40 22°**)** 05'49 max. Earth dist. direct -9134 May 11 j 16:53 23°**¥**50′52 evening set -9134 May 21 j 02:24 24°**₭**08'55 35.97103 AU -9128 Jun 04 j 14:28 5°**Υ**28'16 11°18'58 max. Earth dist. conjunction -9128 Jun 04 j 14:03 5°**Υ**28'13 11°18'56 minimum elong 24°**升**15'55 8°43'24 -9134 May 24 j 17:16 -9128 Jun 14 j 23:03 5°**Y**49'31 conjunction morning rise -9134 May 24 j 16:56 -9128 Sep 14 j 05:28 7°**Y**42'37 minimum elong 24°**) (**15′54 8°43'17 retrograde morning rise -9134 Jun 06 j 14:18 24°**)** 40′45 -9128 Nov 30 j 15:49 6°Υ26'38 12°13'25 opposition retrograde -9134 Sep 03 j 00:35 26°**∺**22′10 min. Earth dist. -9128 Dec 03 j 21:36 6°Υ21'40 32.41838 AU -9134 Nov 19 j 18:37 25°**₭**08'51 9°27'52 direct -9127 Feb 20 j 04:54 5°**Y**07′03 opposition min. Earth dist. -9134 Nov 23 j 02:20 25°**₭**03'57 33.87052 AU -9127 May 27 j 21:59 7°**Υ**06'33 evening set -9133 Feb 09 j 18:15 23°**¥**52′01 max. Earth dist. -9127 Jun 03 j 10:07 7°Υ20'00 34.25929 AU direct -9133 May 14 j 03:20 25°**)** 38'51 evening set -9133 May 23 j 03:23 25°**升**56'19 35.71834 AU -9127 Jun 06 j 20:25 7°**Υ**27'08 11°43'42 max. Earth dist. conjunction -9127 Jun 06 j 19:59 7°Υ27'06 11°43'42 minimum elong 26°\(\frac{1}{2}\)03'29 9°09'54 7°**Y**47'32 conjunction -9133 May 26 j 19:11 morning rise -9127 Jun 16 j 16:24 9°**Υ**42'56 minimum elong -9133 May 26 i 18:50 26°**)**€03'27 9°09'47 retrograde -9127 Sep 16 i 13:28 -9133 Jun 08 i 07:50 8°**Υ**26'34 12°39'42 morning rise 26°**)**€27'52 opposition -9127 Dec 02 i 22:15 retrograde -9133 Sep 05 i 02:47 28°**升**11′00 min. Earth dist. -9127 Dec 06 i 02:09 8°**Υ**21'41 32.19073 AU -9133 Nov 21 j 20:12 26°\H57'15 9°56'04 direct -9126 Feb 22 j 11:11 7°**Y**06'34 opposition min. Earth dist. -9133 Nov 25 j 04:45 26°\ 52'16 33.62112 AU -9126 May 30 j 18:29 9°Y08'34 evening set -9132 Feb 11 j 17:37 25°**)** 39'56 max. Earth dist. -9126 Jun 05 j 17:11 9°Υ21'00 34.03074 AU direct evening set -9132 May 15 j 14:54 27°**∺**28'39 9°**Υ**28'11 12°07'55 max. Earth dist. -9132 May 24 j 07:19 27°**)** 45'39 35.46710 AU conjunction -9126 Jun 09 j 03:18 9°**Υ**28'08 minimum elong -9126 Jun 09 j 02:51 12°07'57 27°**)** 52'46 9°36'14 9°Y47'37 conjunction -9132 May 27 j 21:38 morning rise -9126 Jun 18 j 09:50 11°Y45'26 -9132 May 27 j 21:15 27°**)** 52'44 9°36'08 retrograde -9126 Sep 18 j 22:58 minimum elong -9132 Jun 09 j 01:05 28°**升**16'40 -9126 Dec 05 j 05:37 10°Υ28'41 13°05'26 morning rise opposition  $0^{\circ}\Upsilon$ -9126 Dec 08 j 09:37 10°**Y**23'46 31.96757 AU -9132 Aug 27 j 02:01 min. Earth dist. 9°**Υ**08'18 0°Y01'36 -9125 Feb 24 j 16:36 retrograde -9132 Sep 06 j 04:24 direct 11°Y12'54 -9132 Sep 16 j 11:17 30°**₹**₩ evening set -9125 Jun 02 j 16:56 11°Υ24'22 33.80656 AU opposition -9132 Nov 22 j 22:32 28°**)**47'23 10°24'07 max. Earth dist. -9125 Jun 08 j 03:05 min. Earth dist. -9132 Nov 26 j 06:25 28°**)** 42′24 33.37357 AU direct -9131 Feb 12 j 19:06 27°**)** 29'36 conjunction -9125 Jun 11 j 11:01 11°**Υ**31'26 12°31'36 evening set -9131 May 18 j 03:54 29°**H**20'16 minimum elong -9125 Jun 11 j 10:35 11°**Y**31′24 12°31'39 max. Earth dist. -9131 May 26 j 09:51 29°**)** 36'36 35.21811 AU -9125 Jun 20 j 02:56 11° Y 49' 47 morning rise

-9125 Sep 21 j 08:00

retrograde

13°Y50'10

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9125 in astronomical counting style is the year 9126 BCE in historical counting style. -9125 Dec 07 i 14:06 12°**Υ**33'02 13°30'35 -9118 Jun 26 j 13:58 26°**Y**52'57 14°56'27 opposition minimum elong 12°**Y**28'11 31.74856 AU -9125 Dec 10 j 16:37 -9118 Jun 27 j 23:31 26°**Y**56′07 min. Earth dist. morning rise -9124 Feb 27 j 00:13 11°Y12'15 -9118 Oct 07 j 00:15 29°Y21'41 direct retrograde 13°**Y**19'35 28°**Y**′01′31 16°03'28 -9124 Jun 04 j 17:05 -9118 Dec 23 j 02:45 evening set opposition 13°**Y**′29'45 33.58644 AU -9118 Dec 25 j 19:51 -9124 Jun 09 j 11:27 27°Υ57'08 30.34636 AU max. Earth dist. min. Earth dist. 26°Y37'54 direct -9117 Mar 13 j 24:00 29°**Υ**05'52 32.18297 AU 13°**Y**36'54 max. Earth dist. conjunction -9124 Jun 12 j 19:20 12°54'40 -9117 Jun 26 j 07:48 -9124 Jun 12 j 18:53 minimum elong 13°**Y**36′51 12°54'44 29°**Υ**12'21 morning rise -9124 Jun 20 j 19:44 13°**Y**54′02 conjunction -9117 Jun 29 j 03:59 15°12'54 retrograde -9124 Sep 22 j 18:21 15°**Y**57′07 minimum elong -9117 Jun 29 j 03:36 29°**Y**12'19 15°13'07 opposition -9124 Dec 08 j 23:29 14°**Υ**39'34 13°55'04 -9117 Jul 20 j 07:44 0°8 -9117 Oct 09 j 17:17 min. Earth dist. -9124 Dec 12 j 01:28 14°**Y**34'44 31.53370 AU retrograde 1°**8**42'22 direct -9123 Feb 28 j 06:35 13°**Y**18′24 opposition -9117 Dec 25 j 18:32 0°**8**21'49 16°20'52 evening set -9123 Jun 07 j 19:38 15°**Y**28'35 min. Earth dist. -9117 Dec 28 j 10:11 0°**8**17'30 30.17215 AU max. Earth dist. -9123 Jun 11 j 22:57 15°**Ƴ**37'30 33.37033 AU -9116 Jan 08 j 07:19 30°RΥ direct -9116 Mar 15 j 13:50 28°Y57'51 conjunction -9123 Jun 15 j 04:45 15°**Y**44'32 13°17'04 -9116 May 18 j 02:16 0°8 minimum elong -9123 Jun 15 j 04:19 15°**Ƴ**44'29 13°17'09 max. Earth dist. -9116 Jun 28 j 01:40 1°**8**27'22 32.01053 AU morning rise -9123 Jun 22 j 12:03 16°**Y**00′19 retrograde -9123 Sep 25 j 03:27 18°**Y**06′13 conjunction -9116 Jun 30 j 18:12 1°833'34 15°28'16 opposition -9123 Dec 11 j 09:42 16°**Y**48'15 14°18'49 minimum elong -9116 Jun 30 j 17:48 1°**8**33'31 15°28'29 min. Earth dist. -9123 Dec 14 i 10:54 16°**Υ**43'26 31.32279 AU retrograde -9116 Oct 11 i 09:17 4°804'53 -9122 Mar 02 j 14:45 15°**Y**26'40 opposition -9116 Dec 27 i 11:05 2°**8**43'58 16°36'51 direct -9122 Jun 11 i 00:37 17° **Y**39'52 min. Earth dist. -9116 Dec 29 j 23:40 2°839'50 30.00664 AU evening set max. Earth dist. -9122 Jun 14 j 09:20 17°**Υ**47'12 33.15849 AU direct -9115 Mar 18 j 06:02 1°819'41 max. Earth dist. -9115 Jun 30 j 18:13 3°**と**50'33 31.84723 AU -9122 Jun 17 j 14:50 17°**Y**54'16 13°38'43 conjunction -9122 Jun 17 j 14:22 -9115 Jul 03 j 09:07 3°**8**56'38 15°42'15 17°**℃**54'14 13°38'49 minimum elong conjunction -9122 Jun 24 j 03:30 18°Y08'31 -9115 Jul 03 j 08:46 3°**8**56'36 15°42'31 morning rise minimum elong -9122 Sep 27 j 16:35 20°**℃**17'24 -9115 Oct 14 j 02:51 6°**8**29'15 retrograde retrograde -9122 Dec 13 j 20:54 -9115 Dec 30 j 04:16 5°807'59 16°51'20 18°**Y**59'00 14°41'45 opposition opposition min. Earth dist. -9122 Dec 16 j 20:31 18°**Y**54'16 31.11631 AU min. Earth dist. -9114 Jan 01 j 14:48 5°**8**03'59 29.85028 AU -9121 Mar 04 j 22:44 17°**Y**37′00 -9114 Mar 20 j 20:20 3°**8**43'27 direct direct -9121 Jun 14 j 08:34 19°**Y**53′27 -9114 Jul 03 j 13:48 6°815'50 31.69323 AU evening set max. Earth dist. -9121 Jun 16 j 22:08 19°**Y**59'06 32.95114 AU max. Earth dist. -9114 Jul 06 j 00:50 conjunction 6°**8**21'35 15°54'48 -9121 Jun 20 j 01:44 20°**Y**'06'03 13°59'33 -9114 Jul 06 j 00:30 conjunction minimum elong 6°**8**21'33 15°55'05 -9121 Jun 20 j 01:17 20°**Y**′06′01 13°59'41 retrograde -9114 Oct 16 j 19:42 8°**8**55'26 minimum elong -9121 Jun 25 j 17:28 20°Υ18'32 -9113 Jan 01 j 22:34 7°**8**33'53 17°04'14 morning rise opposition retrograde -9121 Sep 30 j 04:08 22°Y30'37 min. Earth dist. -9113 Jan 04 j 06:36 7°**8**30'02 29.70286 AU -9121 Dec 16 j 09:10 21°**Y**11'47 15°03'47 -9113 Mar 23 j 12:54 6°809'08 opposition direct -9121 Dec 19 j 08:19 21°**Υ**07'03 30.91458 AU -9113 Jul 06 j 07:45 8°842'46 31.54844 AU min. Earth dist. max. Earth dist. -9120 Mar 06 j 08:49 19°**Y**49′22 direct -9120 Jun 16 j 20:30 22°Y09'21 -9113 Jul 08 j 16:56 8°848'23 16°05'51 evening set conjunction -9120 Jun 18 j 11:10 22°Υ12'56 32.74918 AU -9113 Jul 08 j 16:38 8°**8**48'21 max. Earth dist. minimum elong 16°06'09 -9113 Oct 19 i 15:48 retrograde 11°**8**23'26 22°**Y**19'48 14°19'29 conjunction -9120 Jun 21 i 13:15 opposition -9112 Jan 04 i 17:36 10°**8**01'37 17°15'29 minimum elong -9120 Jun 21 j 12:48 22°\bar{\gamma}19'46 14°19'37 min. Earth dist. -9112 Jan 06 i 22:42 9°857'57 29.56442 AU -9120 Jun 26 i 04:49 22° Y 30'10 direct -9112 Mar 25 i 04:49 8°836'39 morning rise -9120 Oct 01 i 18:49 24°Y45'46 max. Earth dist. -9112 Jul 08 j 04:18 11°**8**11'39 31.41262 AU retrograde -9120 Dec 17 j 22:05 23°Y26'29 15°24'49 opposition min. Earth dist. -9112 Jul 10 j 09:53 -9120 Dec 20 j 18:50 23°**Υ**21'53 30.71853 AU 11°816'57 16°15'20 conjunction -9119 Mar 08 j 21:35 22°Y03'39 -9112 Jul 10 j 09:36 11°**8**16'56 direct minimum elong 16°15'39 24°**Y**27'44 -9119 Jun 20 j 14:54 retrograde -9112 Oct 21 j 09:16 13°**8**53'08 evening set -9119 Jun 21 j 01:04 max. Earth dist. 24°Υ28'41 32.55317 AU opposition -9111 Jan 06 j 13:26 12°**8**31'04 17°25'02 min. Earth dist. -9111 Jan 08 j 16:38 12°**8**27'31 29.43458 AU -9119 Jun 24 j 01:30 24°**Y**35'28 14°38'25 -9111 Mar 27 j 22:21 11°**8**05'56 conjunction direct -9119 Jun 24 j 01:05 24°**Y**35'26 -9111 Jul 10 j 23:53 13°**8**42'04 31.28573 AU minimum elong 14°38'36 max. Earth dist. -9119 Jun 27 j 11:06 24° **Y**43'07 morning rise 27°**Y**02'49 -9111 Jul 13 j 03:16 13°**8**47'12 16°23'11 retrograde -9119 Oct 04 j 08:57 conjunction 13°**8**47'10 opposition -9119 Dec 20 j 12:03 25°**Y**43'05 15°44'44 minimum elong -9111 Jul 13 j 03:02 16°23'31 min. Earth dist. -9119 Dec 23 j 08:12 25°**Y**38'30 30.52882 AU -9111 Aug 13 j 17:33 15°8 direct -9118 Mar 11 j 09:15 24°**Y**19′50 retrograde -9111 Oct 24 j 05:54 16°**8**24'26 max. Earth dist. -9118 Jun 23 j 16:39 26°**Y**46'24 32.36417 AU opposition -9110 Jan 09 j 09:53 15°**8**02'06 17°32'48 evening set -9118 Jun 25 j 04:23 26°**Y**49'47 -9110 Jan 10 j 16:14 15°R₩ min. Earth dist. -9110 Jan 11 j 09:40 14°858'48 29.31329 AU -9118 Jun 26 j 14:23 26°**Υ**52'59 14°56'15 -9110 Mar 30 j 16:51 13°**8**36'48 conjunction direct

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9110 in astronomical counting style is the year 9111 BCE in historical counting style. -9110 Jun 11 j 12:21 15°8 direct -9102 Apr 20 j 21:27 4°**Ⅱ**20'05 -9110 Jul 13 j 21:04 16°**8**14'06 31.16752 AU -9102 Aug 04 j 10:17 7°**П**02'54 30.58862 AU max. Earth dist. max. Earth dist. -9110 Jul 15 j 21:16 16°818'56 16°29'21 -9102 Aug 05 j 06:31 conjunction 7°**I**104'58 16°12'23 conjunction -9110 Jul 15 j 21:03 minimum elong 16°**8**18'55 -9102 Aug 05 j 06:38 7°**Ⅱ**04'59 16°29'43 minimum elong 16°12'53 -9110 Oct 27 j 01:16 18°**8**57'09 -9102 Nov 17 j 07:12 9°**Ⅱ**47'18 retrograde retrograde -9109 Jan 12 j 07:12 17°**8**34'34 -9101 Feb 02 j 23:54 8°**Ⅲ**23′27 opposition 17°38'45 opposition 17°13'54 min. Earth dist. -9109 Jan 14 j 05:18 17°**8**31'22 29.20051 AU min. Earth dist. -9101 Feb 03 j 17:20 8°**Ш**22'13 28.66176 AU 6°**I**57'41 direct -9109 Apr 02 j 10:34 16°**8**09'08 direct -9101 Apr 23 j 19:51 max. Earth dist. -9109 Jul 16 j 18:29 18°**8**47'27 31.05841 AU max. Earth dist. -9101 Aug 07 j 10:56 9°**耳**40'51 30.56942 AU -9109 Jul 18 j 15:41 18°**8**52'00 -9101 Aug 08 j 02:11 9°**Ⅱ**42'25 conjunction 16°33'47 conjunction 16°01'32 -9109 Jul 18 j 15:32 -9101 Aug 08 j 02:22 minimum elong 18°**8**51'59 16°34'10 minimum elong 9°**Ⅱ**42'26 16°02'03 retrograde -9109 Oct 29 j 22:43 21°831'05 retrograde -9101 Nov 20 j 03:10 12°**Ⅲ**24'50 opposition -9108 Jan 15 j 05:00 20°**8**08'17 17°42'48 opposition -9100 Feb 05 j 24:00 11°**Ⅱ**00'59 17°01'21 min. Earth dist. -9108 Jan 16 j 23:09 20°**8**05'21 29.09658 AU min. Earth dist. -9100 Feb 06 j 14:17 10°**Д**59'59 28.64650 AU direct -9108 Apr 04 j 08:19 18°**8**42'42 direct -9100 Apr 25 j 18:46 9°**Ⅲ**35'22 max. Earth dist. -9108 Jul 18 j 16:00 21°**8**21'55 30.95852 AU conjunction -9100 Aug 09 j 21:33 12°**Ⅱ**19'50 15°48'48 conjunction -9108 Jul 20 j 10:23 21°**8**26'12 16°36'27 minimum elong -9100 Aug 09 j 21:44 12°**Ⅱ**19'51 15°49'20 minimum elong -9108 Jul 20 j 10:14 21°**8**26'11 16°36'51 max. Earth dist. -9100 Aug 09 j 09:18 12°**Д**18'34 30.56218 AU retrograde -9108 Oct 31 i 19:40 24°806'03 retrograde -9100 Nov 22 i 01:21 15°**Ⅱ**02'12 opposition -9107 Jan 17 i 03:22 22°**8**43'01 17°44'53 opposition -9099 Feb 07 i 23:55 13°**Ⅱ**38′23 16°46'47 min. Earth dist. -9107 Jan 18 j 19:31 22°840'13 29.00187 AU min. Earth dist. -9099 Feb 08 i 09:42 13°**Д**37'42 28.64265 AU direct -9107 Apr 07 i 04:33 21°817'18 direct -9099 Apr 28 j 17:19 12°**Ⅱ**12'56 max. Earth dist. -9107 Jul 21 j 14:51 23°**8**57'24 30.86852 AU -9099 Aug 12 j 17:01 14°**I**157'02 15°34'12 conjunction -9107 Jul 23 j 05:27 24°**8**01'19 16°37'15 -9099 Aug 12 j 17:16 14°**Ⅱ**57'03 minimum elong 15°34'44 conjunction -9107 Jul 23 j 05:23 24°**8**01'19 -9099 Aug 12 j 09:13 14°**Д**56'14 30.56620 AU 16°37'40 max. Earth dist. minimum elong -9107 Nov 03 j 16:50 26°**8**41'50 -9099 Nov 24 j 21:48 17°**Ⅲ**39'16 retrograde retrograde 17°44'59 -9106 Jan 20 j 01:55 25°**8**18'35 -9098 Feb 10 j 23:49 16°**Ⅲ**15'30 16°30'14 opposition opposition -9106 Jan 21 j 14:00 -9098 Feb 11 j 07:02 min. Earth dist. 25°**8**16'04 28.91688 AU min. Earth dist. 16°**I**15′00 28.64956 AU -9106 Apr 10 j 02:59 -9098 May 01 j 15:09 23°**8**52'46 14°**Ⅲ**50′14 direct direct -9106 Jul 24 j 12:51 26°**8**33'32 30.78889 AU max. Earth dist. -9098 Aug 15 j 12:13 17°**I**33'50 15°17'49 conjunction -9106 Jul 26 j 00:40 26°**8**37'11 16°36'11 -9098 Aug 15 j 12:29 conjunction minimum elong 17°**Ⅲ**33'52 15°18'22 -9106 Jul 26 j 00:36 26°**8**37'11 -9098 Aug 15 j 07:34 minimum elong 16°36'37 max. Earth dist. 17°**Ⅲ**33'21 30.58120 AU retrograde -9106 Nov 06 j 15:02 29°818'16 retrograde -9098 Nov 27 j 18:46 20°**Ⅱ**15'49 -9105 Jan 23 j 01:07 27°**8**54'49 17°43'00 opposition -9097 Feb 13 j 23:35 18°**耳**52'07 16°11'46 opposition min. Earth dist. -9105 Jan 24 j 10:30 27°**8**52'29 28.84249 AU min. Earth dist. -9097 Feb 14 j 02:07 18°**Д**51'56 28.66697 AU direct -9105 Apr 13 j 00:12 26°**8**28'55 direct -9097 May 04 j 14:31 17°**Ⅲ**27'03 -9105 Jul 28 j 19:59 29°**8**13'36 16°33'11 -9097 Aug 18 j 07:09 20°II10'03 14°59'43 conjunction conjunction -9105 Jul 28 j 20:00 29°**8**13'37 16°33'38 -9097 Aug 18 j 07:27 20° II 10'04 15° 00'14 minimum elong minimum elong max. Earth dist. -9105 Jul 27 j 12:57 29°**8**10'26 30.72057 AU max. Earth dist. -9097 Aug 18 j 06:18 20°**П**09'57 30.60663 AU -9105 Aug 17 j 00:12 -9097 Nov 30 i 14:12  $0^{\circ}II$ retrograde 22°**Ⅲ**51'41 -9105 Nov 09 j 12:54 -9096 Feb 16 i 23:15 21°**II**28'03 15°51'28 retrograde 1°**I**55′09 opposition -9104 Jan 26 i 00:36 opposition 0°**Д**31'32 17°38'56 min. Earth dist. -9096 Feb 16 i 23:15 21°**П**28'03 28.69453 AU min. Earth dist. -9104 Jan 27 i 05:49 0°**Ц**29'29 28.77926 AU direct -9096 May 06 j 12:14 20°**Ⅱ**03'12 -9104 Feb 14 i 05:38 30°R8 -9096 Aug 16 j 21:37 22°**Ⅲ**37'42 evening set direct -9104 Apr 15 j 00:30 29°805'36 -9104 Jun 11 j 04:50  $0^{\circ}II$ -9096 Aug 20 j 01:52 22°**I**I45'28 14°39'56 conjunction max. Earth dist. -9104 Jul 29 j 11:17 1°**Д**47'34 30.66412 AU -9096 Aug 20 j 02:11 22°II45'30 14°40'29 minimum elong max. Earth dist. -9096 Aug 20 j 04:31 22°**Д**45'44 30.64243 AU 22°**I**53'17 conjunction -9104 Jul 30 j 15:26 1°**Д**50'27 16°28'13 morning rise -9096 Aug 23 j 06:44 minimum elong -9104 Jul 30 j 15:27 1°**I**50'27 16°28'41 retrograde -9096 Dec 02 j 10:22 25°**I**I26'38 4°**Ⅱ**32'22 -9104 Nov 11 j 10:39 opposition -9095 Feb 18 j 22:12 24°**I**03'05 15°29'25 retrograde -9103 Jan 28 j 00:08 3°**II**08'36 17°32'43 -9095 Feb 18 j 17:50 24°**I**03'23 28.73206 AU opposition min. Earth dist. -9103 Jan 29 j 01:44 3°**Д**06'49 28.72802 AU -9095 May 09 j 10:53 22°II38'26 min. Earth dist. direct -9103 Apr 17 j 21:39 1°**∏**42'41 -9095 Aug 18 j 06:20 25°**Ⅲ**08'47 direct evening set -9103 Aug 01 j 11:57 4°**Д**25'14 30.62012 AU max. Earth dist. conjunction -9095 Aug 22 j 20:06 25°**Ⅲ**19'54 14°18'34 conjunction -9103 Aug 02 j 11:05 4°**Ⅲ**27'37 16°21'17 minimum elong -9095 Aug 22 j 20:27 25°**Ⅱ**19'56 14°19'07 minimum elong -9103 Aug 02 j 11:11 4°**Ⅲ**27'37 16°21'46 max. Earth dist. -9095 Aug 23 j 01:54 25°**Ⅱ**20'29 30.68830 AU retrograde -9103 Nov 14 j 07:56 7°**Ⅱ**09'46 morning rise -9095 Aug 27 j 10:33 25°**Ⅲ**31′05 -9102 Jan 30 j 23:58 5°**I**45'57 17°24'22 -9095 Dec 05 j 05:40 28° II 00'30 opposition retrograde

min. Earth dist.

-9102 Jan 31 j 21:45

5°**Ⅱ**44'25 28.68878 AU

opposition

-9094 Feb 21 j 21:01

26°**Ⅲ**37'02 15°05'41

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Attention, astronom	ical year style is used: Th	e year -9094 i	in astronomical cou	inting style is the year	9095 BCE in historical c	ounting style.	
min. Earth dist.	-9094 Feb 21 j 13:55	26° <b>Ⅲ</b> 37'31	28.77970 AU	conjunction	-9088 Sep 08 j 12:01	12° <b>5</b> 42'48	11°10'45
direct	-9094 May 12 j 08:18	25° <b>Ⅱ</b> 12'38		minimum elong	-9088 Sep 08 j 12:26	12° <b>5</b> 42'51	11°11'19
evening set	-9094 Aug 19 j 21:43	27° <b>Ⅱ</b> 39′27		max. Earth dist.	-9088 Sep 09 j 19:52	12° <b>©</b> 45'55	31.31372 AU
				morning rise	-9088 Sep 18 j 17:09	13° <b>©</b> 06'37	
conjunction	-9094 Aug 25 j 13:49	27° <b>Ⅱ</b> 53'09		retrograde	-9088 Dec 22 j 06:09	15° <b>©</b> 17'29	
minimum elong	-9094 Aug 25 j 14:11	27° <b>Ⅲ</b> 53′12		min. Earth dist.	-9087 Mar 10 j 11:34		29.41696 AU
max. Earth dist.	-9094 Aug 25 j 23:50		30.74459 AU	opposition	-9087 Mar 11 j 19:54	13° <b>©</b> 55'21	11°39'32
morning rise	-9094 Aug 31 j 06:32	28° <b>Ⅱ</b> 06'57		direct	-9087 May 30 j 07:41	12° <b>5</b> 33'14	
	-9094 Oct 25 j 02:43	$0$ $\circ$ $\odot$		evening set	-9087 Aug 31 j 08:10	14° <b>5</b> 40'54	
retrograde	-9094 Dec 08 j 00:33	0°ഇ33'06					
	-9093 Jan 23 j 03:12	30°RⅡ		conjunction	-9087 Sep 11 j 01:36	15° <b>©</b> 05'44	10°39'34
opposition	-9093 Feb 24 j 19:17	29° <b>Ⅱ</b> 09'44		minimum elong	-9087 Sep 11 j 02:00	15° <b>©</b> 05'46	10°40'07
min. Earth dist.	-9093 Feb 24 j 08:02		28.83759 AU	max. Earth dist.	-9087 Sep 12 j 11:58		31.44577 AU
direct	-9093 May 15 j 07:40	27° <b>Ⅱ</b> 45'34		morning rise	-9087 Sep 21 j 20:07	15° <b>©</b> 30'40	
	-9093 Aug 17 j 20:01	0°©		retrograde	-9087 Dec 24 j 21:09	17° <b>©</b> 39'22	
evening set	-9093 Aug 21 j 16:11	0° <b>©</b> 09'11		min. Earth dist.	-9086 Mar 13 j 01:02		29.54984 AU
				opposition	-9086 Mar 14 j 13:36	16° <b>©</b> 17'32	11°05'38
conjunction	-9093 Aug 28 j 06:56	0°\$25'06		direct	-9086 Jun 02 j 01:32	14° <b>©</b> 55'51	
minimum elong	-9093 Aug 28 j 07:19	0° <b>©</b> 25'09	13°31'53	evening set	-9086 Sep 02 j 08:38	17° <b>©</b> 01'12	
max. Earth dist.	-9093 Aug 28 j 19:52		30.81147 AU				
morning rise	-9093 Sep 03 j 22:26	0° <b>©</b> 41'06		conjunction	-9086 Sep 13 j 14:28	17° <b>©</b> 27'02	10°07'37
retrograde	-9093 Dec 10 j 19:25	3° <b>©</b> 04'19		minimum elong	-9086 Sep 13 j 14:52	17° <b>©</b> 27'04	10°08'11
opposition	-9092 Feb 27 j 16:59	1° <b>5</b> 641'04	14°13'27	max. Earth dist.	-9086 Sep 15 j 04:10		31.58658 AU
min. Earth dist.	-9092 Feb 27 j 02:13		28.90641 AU	morning rise	-9086 Sep 24 j 21:30	17° <b>©</b> 52'59	
direct	-9092 May 17 j 03:47	0° <b>©</b> 17'10		retrograde	-9086 Dec 27 j 09:00	19° <b>©</b> 59'36	
evening set	-9092 Aug 22 j 12:35	2° <b>©</b> 37'47		min. Earth dist.	-9085 Mar 15 j 16:19		29.69135 AU
				opposition	-9085 Mar 17 j 06:49	18° <b>©</b> 38'04	10°30'58
conjunction	-9092 Aug 29 j 23:35	2° <b>©</b> 55'38	13°05'36	direct	-9085 Jun 04 j 17:34	17° <b>©</b> 16'48	
minimum elong	-9092 Aug 29 j 23:59	2° <b>©</b> 55'41	13°06'10	evening set	-9085 Sep 04 j 09:38	19° <b>©</b> 19'54	
max. Earth dist.	-9092 Aug 30 j 17:10		30.88950 AU				
morning rise	-9092 Sep 06 j 11:15	3° <b>5</b> 13'34		conjunction	-9085 Sep 16 j 02:54	19° <b>5</b> 36'38	9°35'00
retrograde	-9092 Dec 12 j 12:39	5° <b>©</b> 34'02		minimum elong	-9085 Sep 16 j 03:16	19° <b>5</b> 346'40	
opposition	-9091 Mar 01 j 14:04	4° <b>©</b> 10'57		max. Earth dist.	-9085 Sep 17 j 19:21		31.73563 AU
min. Earth dist.	-9091 Feb 28 j 19:37		28.98625 AU	morning rise	-9085 Sep 27 j 21:21	20° <b>©</b> 13'28	
direct	-9091 May 20 j 01:53	2°9547'20		retrograde	-9085 Dec 29 j 21:27	22° <b>©</b> 18'04	
evening set	-9091 Aug 24 j 10:16	5° <b>5</b> 05'07		min. Earth dist.	-9084 Mar 17 j 05:00		29.84069 AU
				opposition	-9084 Mar 18 j 22:58	20° <b>©</b> 56'50	9°55'40
conjunction	-9091 Sep 01 j 15:31	5° <b>5</b> 24'42		direct	-9084 Jun 06 j 09:38	19° <b>©</b> 35'58	
minimum elong	-9091 Sep 01 j 15:55	5° <b>5</b> 24'44		evening set	-9084 Sep 05 j 10:47	21° <b>©</b> 36'56	
max. Earth dist.	-9091 Sep 02 j 11:44	5° <b>5</b> 26'42	30.97881 AU				
morning rise	-9091 Sep 09 j 21:38	5° <b>5</b> 44'20		conjunction	-9084 Sep 17 j 14:33	22° <b>©</b> 04'26	9°01'49
retrograde	-9091 Dec 15 j 07:41	8°902'14		minimum elong	-9084 Sep 17 j 14:55	22° <b>5</b> 04'28	9°02'22
min. Earth dist.	-9090 Mar 03 j 11:47	6°≌40'52	29.07755 AU	max. Earth dist.	-9084 Sep 19 j 09:16		31.89198 AU
opposition	-9090 Mar 04 j 10:26	6° <b>©</b> 39'19	13°15'28	morning rise	-9084 Sep 29 j 19:49	22° <b>©</b> 32'03	
direct	-9090 May 22 j 22:16	5°916'02		retrograde	-9084 Dec 31 j 09:47	24° <b>©</b> 34'43	
evening set	-9090 Aug 26 j 08:49	7° <b>5</b> 31'08		min. Earth dist.	-9083 Mar 19 j 18:30	23° <b>©</b> 16'40	29.99736 AU
				opposition	-9083 Mar 21 j 14:32	23° <b>©</b> 13'47	9°19'49
conjunction	-9090 Sep 04 j 07:02	7° <b>9</b> 52'15	12°10'22	direct	-9083 Jun 08 j 23:27	21° <b>9</b> 53'17	
minimum elong	-9090 Sep 04 j 07:27	7° <b>9</b> 52'17	12°10'56	evening set	-9083 Sep 07 j 12:00	23° <b>©</b> 52'10	
max. Earth dist.	-9090 Sep 05 j 08:00		31.07956 AU				
morning rise	-9090 Sep 13 j 06:00	8° <b>©</b> 13'26		conjunction	-9083 Sep 20 j 01:35	24° <b>©</b> 20'21	8°28'09
retrograde	-9090 Dec 17 j 22:56	10° <b>©</b> 28'53		minimum elong	-9083 Sep 20 j 01:56	24° <b>©</b> 20'23	8°28'41
min. Earth dist.	-9089 Mar 06 j 04:44		29.18005 AU	max. Earth dist.	-9083 Sep 21 j 23:24	24° <b>©</b> 24'39	32.05528 AU
opposition	-9089 Mar 07 j 06:22	9° <b>5</b> 06'12	12°44'34	morning rise	-9083 Oct 02 j 16:29	24° <b>5</b> 548'40	
direct	-9089 May 25 j 18:21	7° <b>5</b> 643'18		retrograde	-9082 Jan 02 j 20:23	26° <b>©</b> 49'27	
evening set	-9089 Aug 28 j 08:04	9° <b>9</b> 55'48		min. Earth dist.	-9082 Mar 22 j 06:23	25° <b>©</b> 31'50	30.16079 AU
				opposition	-9082 Mar 24 j 05:07	25° <b>©</b> 28'47	8°43'31
conjunction	-9089 Sep 06 j 21:44	10°918'17	11°41'03	direct	-9082 Jun 11 j 15:42	24°908'40	
minimum elong	-9089 Sep 06 j 22:08	10°9518'20	11°41'36	evening set	-9082 Sep 09 j 13:25	26° <b>©</b> 05'32	
max. Earth dist.	-9089 Sep 08 j 01:20		31.19144 AU				
morning rise	-9089 Sep 16 j 12:23	10°9540'52		conjunction	-9082 Sep 22 j 11:46	26° <b>©</b> 34'18	7°54'06
retrograde	-9089 Dec 20 j 15:43	12° <b>©</b> 53'58		minimum elong	-9082 Sep 22 j 12:05	26° <b>©</b> 34'20	7°54'39
min. Earth dist.	-9088 Mar 07 j 19:24		29.29346 AU	max. Earth dist.	-9082 Sep 24 j 11:07		32.22520 AU
opposition	-9088 Mar 09 j 01:31	11° <b>©</b> 31'33	12°12'33	morning rise	-9082 Oct 05 j 11:51	27° <b>©</b> 03'13	
direct	-9088 May 27 j 13:16	10° <b>ട്</b> 09'02		retrograde	-9081 Jan 05 j 08:33	29° <b>©</b> 02'11	
evening set	-9088 Aug 29 j 07:49	12° <b>©</b> 19'04		min. Earth dist.	-9081 Mar 24 j 17:32	27° <b>©</b> 44'59	30.33120 AU
				opposition	-9081 Mar 26 j 19:01	27°9541'47	8°06'52

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 24 Attention, astronomical year style is used: The year -9081 in astronomical counting style is the year 9082 BCE in historical counting style.

Attention, astronomi	cal year style is used: Th	e year -9081 i	in astronomical cou	nting style is the year	9082 BCE in historical co	ounting style.	
direct	-9081 Jun 14 j 04:20	26°522'02		minimum elong	-9075 Oct 06 j 14:40	11° <b>Ω</b> 16'46	3°51'43
evening set	-9081 Sep 11 j 14:34	28°516'58		max. Earth dist.	-9075 Oct 09 j 06:49	11° <b>Ω</b> 22'24 3	33.61012 AU
				morning rise	-9075 Oct 21 j 09:46	11° <b>Ω</b> 47'42	
conjunction	-9081 Sep 24 j 21:15	28°546'14	7°19'45	retrograde	-9074 Jan 19 j 10:49	13° <b>Ω</b> 36′05	
minimum elong	-9081 Sep 24 j 21:33		7°20'16	min. Earth dist.	-9074 Apr 08 j 02:20	12° <b>Ω</b> 22'04 3	
max. Earth dist.	-9081 Sep 27 j 00:06		32.40189 AU	opposition	-9074 Apr 10 j 20:03	12° <b>Ω</b> 17'57	3°47'13
morning rise	-9081 Oct 08 j 05:28	29° <b>©</b> 15'39		direct	-9074 Jun 29 j 07:52	11° <b>Ω</b> 01'05	
. 1	-9081 Oct 29 j 18:00	0° <b>Ω</b>		evening set	-9074 Sep 23 j 22:47	12° <b>Ω</b> 44'55	
retrograde	-9080 Jan 07 j 16:57	1° <b>£</b> 12′52		. ,.	0074 0 4 00 10 11	120 0 15142	2017/44
min. Earth dist.	-9080 Mar 23 j 15:25 -9080 Mar 26 j 04:38	30°R©	30.50851 AU	conjunction	-9074 Oct 08 j 19:11 -9074 Oct 08 j 19:19	13° <b>Ω</b> 15'42 13° <b>Ω</b> 15'43	
opposition	-9080 Mar 28 j 07:59	29°952'43		minimum elong max. Earth dist.	-9074 Oct 08 j 19.19 -9074 Oct 11 j 14:08	$13^{\circ}\Omega 21'32 3$	
direct	-9080 Jun 15 j 18:16	28°933'21	1 2) 31	morning rise	-9074 Oct 23 j 17:53	13° <b>Ω</b> 46'42	33.03377 AU
unect	-9080 Aug 31 j 01:15	0°Ω		morning rise	-9074 Dec 04 j 12:23	15° <b>Ω</b>	
evening set	-9080 Sep 12 j 15:58	0° <b>Ω</b> 26'26		retrograde	-9073 Jan 21 j 15:13	15° <b>Ω</b> 33'53	
8	j				-9073 Mar 12 j 23:01	15°RΩ	
conjunction	-9080 Sep 26 j 05:54	0° <b>Ω</b> 56′07	6°45'09	min. Earth dist.	-9073 Apr 10 j 08:04	14° <b>Ω</b> 20'19 3	31.94930 AU
minimum elong	-9080 Sep 26 j 06:11	0° <b>Ω</b> 56′08	6°45'41	opposition	-9073 Apr 13 j 03:21	14° <b>Ω</b> 16′08	3°10'33
max. Earth dist.	-9080 Sep 28 j 10:14	1° <b>Ω</b> 00'54	32.58548 AU	direct	-9073 Jul 01 j 15:49	12° <b>Ω</b> 59'43	
morning rise	-9080 Oct 09 j 21:46	1° <b>Ω</b> 25'57		evening set	-9073 Sep 25 j 23:55	14° <b>Ω</b> 42'18	
retrograde	-9079 Jan 09 j 03:23	3° <b>Ω</b> 21′28			-9073 Oct 04 j 15:44	15° <b>Ω</b>	
min. Earth dist.	-9079 Mar 28 j 13:12		30.69319 AU				
opposition	-9079 Mar 30 j 19:53	2° <b>Ω</b> 01'37	6°52'51	conjunction	-9073 Oct 10 j 23:06	15° <b>Ω</b> 13'04	
direct	-9079 Jun 18 j 07:06	0° <b>Ω</b> 42'36		minimum elong	-9073 Oct 10 j 23:12	15° <b>Ω</b> 13'04	
evening set	-9079 Sep 14 j 17:12	2° <b>Ω</b> 33'56		max. Earth dist.	-9073 Oct 13 j 18:39	15° <b>Ω</b> 18'54 3	34.06101 AU
	0050 0 00:10 54	20.002150	601.010.5	morning rise	-9073 Oct 26 j 00:59	15° <b>Ω</b> 44'02	
conjunction	-9079 Sep 28 j 13:54	3° <b>Ω</b> 03'58		retrograde	-9072 Jan 23 j 21:55	17° <b>Ω</b> 30'06	22 17700 ATT
minimum elong	-9079 Sep 28 j 14:09	3° <b>Ω</b> 04'00		min. Earth dist.	-9072 Apr 11 j 12:40	16° <b>Ω</b> 17'00 3	
max. Earth dist.	-9079 Sep 30 j 21:44	3° <b>Ω</b> 34'10	32.77628 AU	opposition	-9072 Apr 14 j 09:59	16° <b>Ω</b> 12'43 15°R <b>Ω</b>	2 34 12
morning rise retrograde	-9079 Oct 12 j 12:29 -9078 Jan 11 j 11:02	5° <b>Ω</b> 28'05		direct	-9072 Jun 18 j 05:17 -9072 Jul 02 j 20:37	13 <b>₹87</b> 14° <b>Ω</b> 56'43	
min. Earth dist.	-9078 Mar 30 j 22:55		30.88538 AU	direct	-9072 Jul 17 j 10:53	14 <b>0ℓ</b> 30 43	
opposition	-9078 Apr 02 j 07:11	4°Ω08'31		evening set	-9072 Sep 27 j 00:59	16° <b>Ω</b> 38'07	
direct	-9078 Jun 20 j 19:42	2° <b>Ω</b> 49'55	0 10 50	evening sec	5072 Sep 27 j 00.85	10 000007	
evening set	-9078 Sep 16 j 18:20	4° <b>Ω</b> 39'34		conjunction	-9072 Oct 12 j 02:39	17° <b>Ω</b> 08'49	2°08'28
C	1 ,			minimum elong	-9072 Oct 12 j 02:44	17° <b>Ω</b> 08'50	2°08'54
conjunction	-9078 Sep 30 j 20:59	5° <b>Ω</b> 09'52	5°35'35	max. Earth dist.	-9072 Oct 15 j 00:36	17° <b>Ω</b> 14'49 3	34.29202 AU
minimum elong	-9078 Sep 30 j 21:14	5° <b>Ω</b> 09'53	5°36'05	morning rise	-9072 Oct 27 j 06:51	17° <b>Ω</b> 39'45	
max. Earth dist.	-9078 Oct 03 j 06:39	5° <b>Ω</b> 15′04	32.97454 AU	retrograde	-9071 Jan 25 j 00:41	19° <b>Ω</b> 24'43	
morning rise	-9078 Oct 15 j 01:42	5° <b>Ω</b> 40′20		min. Earth dist.	-9071 Apr 13 j 18:07	18° <b>Ω</b> 11'59 3	
retrograde	-9077 Jan 13 j 18:37	7° <b>Ω</b> 32'45		opposition	-9071 Apr 16 j 15:45	18° <b>Ω</b> 07'42	1°58'12
min. Earth dist.	-9077 Apr 02 j 05:41		31.08513 AU	direct	-9071 Jul 05 j 02:38	16° <b>Ω</b> 52'07	
opposition	-9077 Apr 04 j 17:34	6° <b>Ω</b> 13'31	5°38'24	evening set	-9071 Sep 29 j 02:01	18° <b>Ω</b> 32'23	
direct	-9077 Jun 23 j 06:49	4° <b>Ω</b> 55'19			0071 0-4 14: 05:30	109 002/50	1024147
evening set	-9077 Sep 18 j 19:34	6° <b>Ω</b> 43'24		conjunction	-9071 Oct 14 j 05:28 -9071 Oct 14 j 05:32		1°34'47
conjunction	-9077 Oct 03 j 03:33	7° <b>Ω</b> 13'54	5000144	minimum elong max. Earth dist.	-9071 Oct 14 j 03:32 -9071 Oct 17 j 03:43	19° <b>∂</b> 02′59 19° <b>Ω</b> 08′56 3	1°35'12
minimum elong	-9077 Oct 03 j 03:35	7° <b>Ω</b> 13'55		morning rise	-9071 Oct 17 j 03.43	19° <b>Ω</b> 33'48	34.32367 AU
max. Earth dist.	-9077 Oct 05 j 15:56		33.17990 AU	retrograde	-9070 Jan 27 j 04:45	21° <b>Ω</b> 17'43	
morning rise	-9077 Oct 17 j 13:47	7° <b>Ω</b> 44'36	55.17,7,0110	min. Earth dist.	-9070 Apr 15 j 20:59	20° <b>Ω</b> 05'27 3	32.64400 AU
retrograde	-9076 Jan 15 j 23:45	9° <b>Ω</b> 35'35		opposition	-9070 Apr 18 j 20:55		1°22'35
min. Earth dist.	-9076 Apr 03 j 13:55		31.29212 AU	direct	-9070 Jul 07 j 09:02	18° <b>Ω</b> 45'52	
opposition	-9076 Apr 06 j 03:10	8° <b>Ω</b> 16'42	5°01'12	evening set	-9070 Oct 01 j 02:47	20° <b>Ω</b> 25′02	
direct	-9076 Jun 24 j 16:19	6° <b>Ω</b> 58'56					
evening set	-9076 Sep 19 j 20:39	8° <b>Ω</b> 45'31		conjunction	-9070 Oct 16 j 07:35	20° <b>Ω</b> 55'29	1°01'28
				minimum elong	-9070 Oct 16 j 07:38	20° <b>Ω</b> 55'30	1°01'53
conjunction	-9076 Oct 04 j 09:28	9° <b>Ω</b> 16′10		max. Earth dist.	-9070 Oct 19 j 07:48	21° <b>Ω</b> 01'34 3	34.76203 AU
minimum elong	-9076 Oct 04 j 09:39	9° <b>Ω</b> 16'12		morning rise	-9070 Oct 31 j 15:12	21° <b>Ω</b> 26'10	
max. Earth dist.	-9076 Oct 07 j 00:04		33.39209 AU	retrograde	-9069 Jan 29 j 06:36	23° <b>Ω</b> 09'05	22 00000 :=:
morning rise	-9076 Oct 19 j 00:24	9° <b>Ω</b> 47'01		min. Earth dist.	-9069 Apr 18 j 01:24	21° <b>\O</b> 57'08 3	
retrograde	-9075 Jan 17 j 04:53	11° <b>Ω</b> 36'40	21 50561 433	opposition	-9069 Apr 21 j 01:30	21° <b>Ω</b> 52'44	0~4723
min. Earth dist.	-9075 Apr 05 j 19:53		31.50561 AU	direct	-9069 Jul 09 j 15:06	20° <b>Ω</b> 37'57	
opposition direct	-9075 Apr 08 j 11:53 -9075 Jun 27 j 01:31	10° <b>Ω</b> 18'09 9° <b>Ω</b> 00'50	+ 440/	evening set	-9069 Oct 03 j 03:29	22° <b>Ω</b> 16′03	
evening set	-9075 Sep 21 j 21:46	9 <b>δ 2</b> 00 30 10° <b>Ω</b> 46'00		conjunction	-9069 Oct 18 j 09:14	22° <b>Ω</b> 46'20	0°28'32
	20,0 Sep 21 J 21.40	10 00 10 00		minimum elong	-9069 Oct 18 j 09:15		0°28'56
conjunction	-9075 Oct 06 j 14:30	11° <b>Ω</b> 16'45	3°51'15	max. Earth dist.	-9069 Oct 21 j 10:17	22° <b>Ω</b> 52'25 3	
J	,		-		J /		

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 25 Attention, astronomical year style is used: The year -9069 in astronomical counting style is the year 9070 BCE in historical counting style.

		-	in astronomicai cou		90/0 BCE in historical c		26 10002 177
morning rise	-9069 Nov 02 j 17:43	23° <b>Ω</b> 16'49		max. Earth dist.	-9063 Oct 31 j 14:40		36.49082 AU
retrograde	-9068 Jan 31 j 06:58	24° <b>Ω</b> 58'47		morning rise	-9063 Nov 12 j 10:30	3° Mp 46′34	
min. Earth dist.	-9068 Apr 19 j 02:57	23° <b>Ω</b> 47'14	33.12050 AU	retrograde	-9062 Feb 10 j 03:41	5° <b>™</b> 23'59	
opposition	-9068 Apr 22 j 04:59	23° <b>Ω</b> 42'45	0°12'40	min. Earth dist.	-9062 Apr 30 j 04:52	4° № 14'35	34.62192 AU
direct	-9068 Jul 10 j 20:24	22° <b>Ω</b> 28′18		opposition	-9062 May 03 j 12:46	4° <b>ዀ</b> 09'54	-3°04'21
desc. node	-9068 Sep 04 i 03:47	23° <b>Ω</b> 12'45		direct	-9062 Jul 22 i 02:54	2° m 57'40	
evening set	-9068 Oct 04 j 04:05	24° <b>Ω</b> 05'26		evening set	-9062 Oct 15 j 04:02	4° m) 30'06	
evening see	, , , , , , , , , , , , , , , , , , ,	2.0002		evening see	7002 00t 15 j 0 1.02		
conjunction	-9068 Oct 19 j 10:06	24° <b>Ω</b> 35'28	-0°04'03	conjunction	-9062 Oct 30 j 03:35	4° m 58'12	-3°08'39
minimum elong	-9068 Oct 19 j 10:05	24°Ω35'28		minimum elong	-9062 Oct 30 j 03:28	4° mp 58'12	
behind sun begin	-9068 Oct 19 j 03:46	$24^{\circ} \Omega 34'59$	0 03 37	max. Earth dist.	-9062 Nov 02 j 12:53		36.74808 AU
	,				,		30.74606 AU
behind sun end	-9068 Oct 19 j 16:25	24° <b>Ω</b> 35'58	25 241 40 4 11	morning rise	-9062 Nov 14 j 06:00	5° My 26'32	
max. Earth dist.	-9068 Oct 22 j 12:12		35.24149 AU	retrograde	-9061 Feb 11 j 23:50	7° Mp 03'22	
morning rise	-9068 Nov 03 j 19:08	25° <b>Ω</b> 05'45		min. Earth dist.	-9061 May 02 j 02:30		34.88066 AU
retrograde	-9067 Feb 01 j 06:09	26° <b>Ω</b> 46'49		opposition	-9061 May 05 j 11:54	5° <b>™</b> 49'38	-3°35'06
min. Earth dist.	-9067 Apr 21 j 05:19	25° <b>Ω</b> 35'35	33.36292 AU	direct	-9061 Jul 24 j 03:58	4° <b>₯</b> 37'46	
opposition	-9067 Apr 24 j 08:00	25° <b>Ω</b> 31'05	-0°21'34	evening set	-9061 Oct 17 j 03:50	6° <b>™</b> 09'37	
direct	-9067 Jul 12 j 23:16	24° <b>Ω</b> 17′00					
evening set	-9067 Oct 06 j 04:16	25° <b>Ω</b> 53'11		conjunction	-9061 Nov 01 j 00:49	6° <b>™</b> 37'19	-3°37'32
	·			minimum elong	-9061 Nov 01 j 00:41	6° <b>™</b> 37'19	3°37'15
conjunction	-9067 Oct 21 j 10:21	26° <b>Ω</b> 22'58	-0°36'03	max. Earth dist.	-9061 Nov 04 j 10:31		37.00616 AU
minimum elong	-9067 Oct 21 j 10:20	26°Ω22'58		morning rise	-9061 Nov 16 j 00:56	7° m 05'16	
max. Earth dist.	-9067 Oct 24 j 14:26		35.48531 AU	retrograde	-9060 Feb 13 j 20:11	8° <b>m</b> 41'33	
morning rise	3	26° <b>Ω</b> 52'59	33.46331 AU	min. Earth dist.	3		35.14016 AU
C	-9067 Nov 05 j 19:11				-9060 May 03 j 01:09		
retrograde	-9066 Feb 03 j 04:34	28° <b>Ω</b> 33'13	22 (00 /2 / 77	opposition	-9060 May 06 j 10:27	7° m/28'09	-4-05/15
min. Earth dist.	-9066 Apr 23 j 06:13		33.60843 AU	direct	-9060 Jul 25 j 02:53	6° Mp 16'40	
opposition	-9066 Apr 26 j 10:13	27° <b>Ω</b> 17'47	-0°55'16	evening set	-9060 Oct 18 j 03:25	7° <b>™</b> 47'58	
direct	-9066 Jul 15 j 02:12	26° <b>Ω</b> 04'04					
evening set	-9066 Oct 08 j 04:35	27° <b>Ω</b> 39′23		conjunction	-9060 Nov 01 j 21:48	8° Mp 15'15	
				minimum elong	-9060 Nov 01 j 21:39	8°Mp15'14	4°05'34
conjunction	-9066 Oct 23 j 09:59	28° <b>Ω</b> 08'52	-1°07'36	max. Earth dist.	-9060 Nov 05 j 08:30	8°Mp21'41	37.26447 AU
minimum elong	-9066 Oct 23 j 09:57	28° <b>Ω</b> 08'52	1°07'14	morning rise	-9060 Nov 16 j 18:56	8° <b>™</b> 42'45	
max. Earth dist.	-9066 Oct 26 j 14:31	28° <b>Ω</b> 15′06	35.73222 AU	retrograde	-9059 Feb 14 j 15:22	10° Mp 18'33	
morning rise	-9066 Nov 07 j 18:31	28° <b>£</b> 38'36		min. Earth dist.	-9059 May 04 j 23:04	9° <b>m</b> 10'12	35.39944 AU
	-9066 Dec 31 j 05:10	o∘ <b>m</b> p		opposition	-9059 May 08 j 08:30	9° <b>₯</b> 05'29	-4°34'45
retrograde	-9065 Feb 05 j 05:24	0° mp 18'03		direct	-9059 Jul 27 j 01:57	7° m 54'21	
Z .	-9065 Mar 14 j 05:49	30°RΩ		evening set	-9059 Oct 20 j 02:56	9° m 25'08	
min. Earth dist.	-9065 Apr 25 j 06:04		33.85746 AU	5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 · 5 ·	, , , , , , , , , , , , , , , , , , , ,		
opposition	-9065 Apr 28 j 11:49	29° <b>Ω</b> 02'56		conjunction	-9059 Nov 03 j 18:02	9° <b>m</b> 51'59	-4°33'36
direct	-9065 Jul 17 j 01:52	27° <b>Ω</b> 49'34	1 20 23	minimum elong	-9059 Nov 03 j 17:53	9° m 51'58	
evening set	-9065 Oct 10 j 04:35	29° <b>Ω</b> 24'05		max. Earth dist.	-9059 Nov 07 j 04:07		37.52214 AU
evening set	-9003 Oct 10 J 04.33	29 <b>66</b> 24 03			•	-	37.32214 AU
	0065 0 + 25 : 00 12	200 0 5211 6	1020140	morning rise	-9059 Nov 18 j 12:11	10° m 19'03	
conjunction	-9065 Oct 25 j 09:13	29° <b>Ω</b> 53'16		retrograde	-9058 Feb 16 j 12:56	11° m 54'22	
minimum elong	-9065 Oct 25 j 09:10	29° <b>Ω</b> 53'15	1°38′20	min. Earth dist.	-9058 May 06 j 19:59	-	35.65810 AU
	-9065 Oct 28 j 20:45	0° <b>m</b> )		opposition	-9058 May 10 j 06:10	10° <b>m</b> 41'38	-5°03'38
max. Earth dist.	-9065 Oct 28 j 16:02	29° <b>€</b> 59'37	35.98238 AU	direct	-9058 Jul 28 j 22:17	9° <b>m</b> 30'49	
morning rise	-9065 Nov 09 j 16:44	0° Mg 22'41		evening set	-9058 Oct 22 j 02:17	11° <b>m</b> ,01'07	
retrograde	-9064 Feb 07 j 04:23	2°My01'24					
min. Earth dist.	-9064 Apr 26 j 06:42	0° <b>m</b> 51'15	34.10961 AU	conjunction	-9058 Nov 05 j 14:07	11° <b>m</b> 27'31	-5°00'46
opposition	-9064 Apr 29 j 12:46	0° Mp 46'37	-2°00'59	minimum elong	-9058 Nov 05 j 13:57	11° <b>m</b> 27'30	5°00'30
	-9064 Jun 03 j 21:20	$30^{\circ}$ R $\Omega$		max. Earth dist.	-9058 Nov 09 j 01:27	11° <b>m</b> 33'53	37.77884 AU
direct	-9064 Jul 18 j 03:31	29° <b>Ω</b> 33'37		morning rise	-9058 Nov 20 j 04:43	11° <b>m</b> 54'07	
	-9064 Aug 29 j 21:19	o∘ mp		retrograde	-9057 Feb 18 j 08:55	13° m 29'00	
evening set	-9064 Oct 11 j 04:36	1° m 07'23		min. Earth dist.	-9057 May 08 j 17:50	-	35.91566 AU
evening see	, , , , , , , , , , , , , , , , , , ,	1 1,40,20		opposition	-9057 May 12 j 03:13	12° Mp 16'33	
conjunction	-9064 Oct 26 j 07:50	1° m/36'14	-2°09'12	direct	-9057 Jul 30 j 19:26	11° <b>m</b> 06'03	0 0107
•	·	1° m/36'14					
minimum elong	-9064 Oct 26 j 07:46			evening set	-9057 Oct 24 j 01:33	12° Mp 35'53	
max. Earth dist.	-9064 Oct 29 j 14:43		36.23541 AU		005731 07:00 00	100% 01110	5027121
morning rise	-9064 Nov 10 j 14:05	2° m/05'18		conjunction	-9057 Nov 07 j 09:39	13° Mp 01'49	
retrograde	-9063 Feb 08 j 05:13	3° m 43'20		minimum elong	-9057 Nov 07 j 09:28	13° <b>m</b> 01'48	
min. Earth dist.	-9063 Apr 28 j 04:51	-	34.36463 AU	max. Earth dist.	-9057 Nov 10 j 20:09	13° <b>m</b> 08'05	38.03444 AU
		20 m 2015 1	-2°32'58	morning rise	-9057 Nov 21 j 20:32	13° <b>m</b> 27'57	
opposition	-9063 May 01 j 12:56	-					
opposition direct	-9063 May 01 j 12:56 -9063 Jul 20 j 03:13	1° Mg 16'17		retrograde	-9056 Feb 20 j 06:14	15° <b>m</b> 02'24	
		-		retrograde min. Earth dist.	-9056 Feb 20 j 06:14 -9056 May 09 j 13:12	-	36.17224 AU
direct	-9063 Jul 20 j 03:13	1° Mp 16'17		•		-	
direct	-9063 Jul 20 j 03:13	1° Mp 16'17	-2°39'12	min. Earth dist.	-9056 May 09 j 13:12	13° <b>m</b> 54'56	
direct evening set	-9063 Jul 20 j 03:13 -9063 Oct 13 j 04:25	1° Mp 16'17 2° Mp 49'22		min. Earth dist. opposition	-9056 May 09 j 13:12 -9056 May 12 j 23:40	13° m 54'56 13° m 50'14	

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 26 Attention, astronomical year style is used: The year -9056 in astronomical counting style is the year 9057 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ne year -9056	in astronomical co	unting style is the year	r 9057 BCE in historical c	ounting style.	
conjunction	-9056 Nov 08 j 04:39	14° <b>m</b> 34'53		direct	-9049 Aug 12 j 02:08	23°Mp06'41	
minimum elong	-9056 Nov 08 j 04:28	14° <b>m</b> 34'52		evening set	-9049 Nov 06 j 13:42	24° <b>m</b> 34'11	
max. Earth dist.	-9056 Nov 11 j 15:57		38.28894 AU				
morning rise	-9056 Nov 22 j 11:30	15° Mp 00'32		conjunction	-9049 Nov 19 j 06:12	24° Mp 55′57	
retrograde	-9055 Feb 20 j 23:47	16° Tp 34'35		minimum elong	-9049 Nov 19 j 05:58	24° m 55'56	
min. Earth dist.	-9055 May 11 j 10:00	•	36.42815 AU	max. Earth dist.	-9049 Nov 22 j 19:12		40.06740 AU
opposition	-9055 May 14 j 19:36	15° mp 22'41	-6°26'29	morning rise	-9049 Dec 02 j 01:01	25° m 17'53	
direct	-9055 Aug 02 j 12:17	14° Mp 12'47		retrograde	-9048 Mar 02 j 23:02	26° Mp 50'12	20 21041 ATT
evening set	-9055 Oct 26 j 23:25	15° <b>m</b> 41'48		min. Earth dist.	-9048 May 21 j 15:20	25° m/40'18	38.21841 AU
conjunction	-9055 Nov 09 j 23:16	16° Mp 06'44	6010145	opposition direct	-9048 May 25 j 01:56 -9048 Aug 12 j 20:40	23 11/40 18 24° M) 32'29	-9 1/00
minimum elong	-9055 Nov 09 j 23:10	16° Mp 06'43		evening set	-9048 Nov 07 j 11:45	25° m 59'50	
max. Earth dist.	-9055 Nov 13 j 10:54		38.54310 AU	evening set	-7046 NOV 07 J 11.43	23 11/3730	
morning rise	-9055 Nov 24 j 01:37	16° Mp 31'53	30.3 1310 110	conjunction	-9048 Nov 19 j 22:19	26° m 21'02	-8°59'48
retrograde	-9054 Feb 22 j 15:46	18° Mp 05'35		minimum elong	-9048 Nov 19 j 22:05	26° m/21'01	
min. Earth dist.	-9054 May 13 j 04:24		36.68387 AU	max. Earth dist.	-9048 Nov 23 j 11:31		40.31849 AU
opposition	-9054 May 16 j 14:58	16° m 53'57		morning rise	-9048 Dec 02 j 10:47	26° m 42'23	
direct	-9054 Aug 04 j 10:28	15° <b>m</b> ) 44'19		retrograde	-9047 Mar 04 j 11:54	28° m 14'35	
evening set	-9054 Oct 28 j 22:07	17° m 13'00		min. Earth dist.	-9047 May 23 j 07:47	27° m 09'30	38.47029 AU
-	-			opposition	-9047 May 26 j 18:13	27° <b>m</b> 04'58	-9°38'57
conjunction	-9054 Nov 11 j 17:14	17° Mp 37'26	-6°43'34	direct	-9047 Aug 14 j 15:57	25° <b>m</b> 57′25	
minimum elong	-9054 Nov 11 j 17:02	17° Mp 37'25	6°43'23	evening set	-9047 Nov 09 j 09:54	27° <b>m</b> 24'39	
max. Earth dist.	-9054 Nov 15 j 04:52	17° <b>m</b> 43'39	38.79713 AU				
morning rise	-9054 Nov 25 j 15:09	18° Mp 02'04		conjunction	-9047 Nov 21 j 14:00	27° <b>m</b> 45'17	-9°20'29
retrograde	-9053 Feb 24 j 09:05	19° <b>m</b> 35'27		minimum elong	-9047 Nov 21 j 13:45	27° Mp 45'16	9°20'23
min. Earth dist.	-9053 May 14 j 23:16	18° Mp 28'45	36.93989 AU	max. Earth dist.	-9047 Nov 25 j 01:57	27° <b>m</b> 51'15	40.56708 AU
opposition	-9053 May 18 j 10:00	18° <b>m</b> 24'05	-7°18'28	morning rise	-9047 Dec 03 j 20:13	28° Mp 06'03	
direct	-9053 Aug 06 j 05:37	17° <b>m</b> 14'45		retrograde	-9046 Mar 06 j 03:49	29° <b>m</b> 38'08	
evening set	-9053 Oct 30 j 20:39	18° Mp 43'07		min. Earth dist.	-9046 May 25 j 00:01	-	38.71964 AU
				opposition	-9046 May 28 j 10:18	28° <b>m</b> 28'47	-10°00'12
conjunction	-9053 Nov 13 j 11:07	19° Mp 07'02		direct	-9046 Aug 16 j 07:33	27° m 21'29	
minimum elong	-9053 Nov 13 j 10:54	19° mp 07'01		evening set	-9046 Nov 11 j 07:44	28° Mp 48'36	
max. Earth dist.	-9053 Nov 16 j 23:56	-	39.05147 AU		004631 22:05:20	200	0040126
morning rise	-9053 Nov 27 j 03:57	19° Mp 31'08		conjunction	-9046 Nov 23 j 05:30	29° Mp 08'39	
retrograde	-9052 Feb 26 j 01:00	21° Mp 04'15	27 10610 AII	minimum elong	-9046 Nov 23 j 05:15	29° Mp 08'38	40.81284 AU
min. Earth dist. opposition	-9052 May 15 j 17:42 -9052 May 19 j 04:17	19 My 53'10	37.19610 AU	max. Earth dist. morning rise	-9046 Nov 26 j 17:59 -9046 Dec 05 j 05:02	29° m 28'51	40.81284 AU
direct	-9052 Aug 07 j 01:11	18° Mp 44'09	-7 43 29	morning risc	-9046 Dec 24 j 17:29	0° <b>⊡</b>	
evening set	-9052 Aug 07 j 01:11 -9052 Oct 31 j 19:10	•		retrograde	-9045 Mar 07 j 17:52	0 <b>=</b> 1° <b>⊆</b> 00'49	
evening set	7032 Oct 31 j 17.10	20 11/12 14		renograde	-9045 May 23 j 17:30	30°RM⊅	
conjunction	-9052 Nov 14 j 04:24	20° m 35'37	-7°31'21	min. Earth dist.	-9045 May 26 j 17:05		38.96584 AU
minimum elong	-9052 Nov 14 j 04:11	20° m 35'36		opposition	-9045 May 30 j 02:00	29° m 51'42	
max. Earth dist.	-9052 Nov 17 j 16:31		39.30599 AU	direct	-9045 Aug 18 j 00:18	28° m/44'39	
morning rise	-9052 Nov 27 j 16:11	20° m 59'12			-9045 Nov 06 j 02:38	0∘ <u>⊽</u>	
retrograde	-9051 Feb 26 j 20:17	22° m 32'04		evening set	-9045 Nov 13 j 05:46	0° <b>£</b> 11'39	
min. Earth dist.	-9051 May 17 j 10:43	21° <b>m</b> 25'57	37.45257 AU				
opposition	-9051 May 20 j 22:19	21°Mp21'17	-8°07'51	conjunction	-9045 Nov 24 j 20:42	0° <b>£</b> 31′08	-10°00'11
direct	-9051 Aug 08 j 17:04	20° Mp 12'33		minimum elong	-9045 Nov 24 j 20:27	0° <b>£</b> 31'07	10°00'07
evening set	-9051 Nov 02 j 17:16	21°Mp40'25		max. Earth dist.	-9045 Nov 28 j 07:38	0° <b>≏</b> 36'57	41.05554 AU
				morning rise	-9045 Dec 06 j 13:24	0° <b>£</b> 50'43	
conjunction	-9051 Nov 15 j 21:14	22° <b>m</b> 03'16	-7°54'21	retrograde	-9044 Mar 08 j 10:43	2° <b>£</b> 22'35	
minimum elong	-9051 Nov 15 j 21:00	22°m/03'15		min. Earth dist.	-9044 May 27 j 07:49		39.20910 AU
max. Earth dist.	-9051 Nov 19 j 10:43	-	39.56047 AU	opposition	-9044 May 30 j 17:05		-10°40'57
morning rise	-9051 Nov 29 j 03:33	22° Tp 26'18		direct	-9044 Aug 18 j 13:57	0° <b>Ω</b> 06'51	
retrograde	-9050 Feb 28 j 14:28	23° m 58'58		evening set	-9044 Nov 14 j 03:28	1° <b>≏</b> 33'47	
min. Earth dist.	-9050 May 19 j 05:15	-	37.70880 AU		004431 25:11.27	10.0 50120	10010112
opposition	-9050 May 22 j 16:01	22° Mp 48'29	-8~31'34	conjunction	-9044 Nov 25 j 11:27		-10°19'13
direct	-9050 Aug 10 j 09:44	21° Mp 40'03		minimum elong	-9044 Nov 25 j 11:13 -9044 Nov 28 j 22:40		10°19'11
evening set	-9050 Nov 04 j 15:30	23° Mp 07'43		max. Earth dist. morning rise	-9044 Nov 28 j 22:40 -9044 Dec 06 j 21:10	2° <b>£</b> 11'39	41.29532 AU
conjunction	-9050 Nov 17 j 13:54	23°m/30'02	-8°16'45	retrograde	-9044 Dec 06 j 21:10 -9043 Mar 10 j 02:22	3° <b>£</b> 43′26	
minimum elong	-9050 Nov 17 j 13:34	23° my 30'01		min. Earth dist.	-9043 May 29 j 00:13		39.44977 AU
max. Earth dist.	-9050 Nov 17 j 13:41 -9050 Nov 21 j 02:51		39.81454 AU	opposition	-9043 Jun 01 j 08:01		-11°00'27
morning rise	-9050 Nov 30 j 14:30	23° m 52'31	27.01.10.1710	direct	-9043 Aug 20 j 04:07	1° <b>£</b> 28'06	11 302/
retrograde	-9049 Mar 02 j 08:16	25° m 25'00		evening set	-9043 Nov 16 j 00:57	2° <b>£</b> 54'58	
min. Earth dist.	-9049 May 20 j 21:25	-	37.96430 AU	<i>5</i>			
opposition	-9049 May 24 j 09:05	24° m 14'49		conjunction	-9043 Nov 27 j 01:47	3° <b>≏</b> 13'14	-10°37'42
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Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 27 Attention, astronomical year style is used: The year -9043 in astronomical counting style is the year 9044 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ie year -9043 i	in astronomical co	unting style is the year	r 9044 BCE in historical c	ounting style.	
minimum elong	-9043 Nov 27 j 01:32	3° <b>₽</b> 13'13	10°37'40	evening set	-9036 Nov 27 j 06:53	12° <b>≏</b> 01'48	
max. Earth dist.	-9043 Nov 30 j 12:40	3° <b>≙</b> 18'59	41.53290 AU				
morning rise	-9043 Dec 08 j 04:02	3° <b>ჲ</b> 31'36		conjunction	-9036 Dec 05 j 22:51	12° <b>≏</b> 15'38	-12°31'53
retrograde	-9042 Mar 11 j 14:25	5° <b>ჲ</b> 03′20		minimum elong	-9036 Dec 05 j 22:37	12° <b>≏</b> 15'37	12°31'56
min. Earth dist.	-9042 May 30 j 14:12	3° <b>ჲ</b> 59'10	39.68837 AU	max. Earth dist.	-9036 Dec 09 j 07:59	12° <b>≏</b> 21′03	43.15340 AU
opposition	-9042 Jun 02 j 22:28	3° <b>ჲ</b> 54'51	-11°19'22	morning rise	-9036 Dec 14 j 15:31	12° <b>≏</b> 29'32	
direct	-9042 Aug 21 j 20:50	2° <b>≏</b> 48'25		retrograde	-9035 Mar 20 j 05:59	14° <b>≏</b> 01'42	
evening set	-9042 Nov 17 j 22:31	4° <b>≏</b> 15'15		min. Earth dist.	-9035 Jun 08 j 13:43	12° <b>≏</b> 58'55	41.31638 AU
				opposition	-9035 Jun 11 j 18:32	12° <b>≏</b> 54'53	-13°15'42
conjunction	-9042 Nov 28 j 15:50	4° <b>≏</b> 32'54	-10°55'38	direct	-9035 Aug 30 j 21:04	11° <b>≏</b> 50'04	
minimum elong	-9042 Nov 28 j 15:35	4° <b>△</b> 32'53		evening set	-9035 Nov 29 j 04:26	13° <b>≏</b> 17'36	
max. Earth dist.	-9042 Dec 02 j 02:01	4° <b>△</b> 38'34	41.76862 AU				
morning rise	-9042 Dec 09 j 10:43	4° <b>ჲ</b> 50'39		conjunction	-9035 Dec 07 j 11:05	13° <b>≏</b> 30'45	-12°46'09
retrograde	-9041 Mar 13 j 02:43	6° <b>≏</b> 22'20		minimum elong	-9035 Dec 07 j 10:52	13° <b>≏</b> 30'44	12°46'13
min. Earth dist.	-9041 Jun 01 j 04:53	5° <b>≏</b> 18′21	39.92558 AU	max. Earth dist.	-9035 Dec 10 j 18:26	13° <b>≏</b> 36′02	43.37579 AU
opposition	-9041 Jun 04 j 12:34	5° <b>≙</b> 14'04	-11°37'41	morning rise	-9035 Dec 15 j 18:31	13° <b>≏</b> 43'58	
direct	-9041 Aug 23 j 12:23	4° <b>≙</b> 07'50		retrograde	-9034 Mar 21 j 18:14	15° <b>≏</b> 16'19	
evening set	-9041 Nov 19 j 19:57	5° <b>△</b> 34'40		min. Earth dist.	-9034 Jun 10 j 02:22	14° <b>≏</b> 13'44	41.53885 AU
				opposition	-9034 Jun 13 j 06:42	14° <b>≏</b> 09'43	-13°30'11
conjunction	-9041 Nov 30 j 05:45	5° <b>≏</b> 51'43	-11°13'01	direct	-9034 Sep 01 j 09:13	13° <b>≏</b> 05'08	
minimum elong	-9041 Nov 30 j 05:31	5° <b>≙</b> 51'42	11°13'00	evening set	-9034 Dec 01 j 02:10	14° <b>≏</b> 32'52	
max. Earth dist.	-9041 Dec 03 j 16:44	5° <b>≏</b> 57'24	42.00312 AU		·		
morning rise	-9041 Dec 10 j 16:46	6° <b>ഫ</b> 08'51		conjunction	-9034 Dec 08 j 23:26	14° <b>≏</b> 45'20	-12°59'57
retrograde	-9040 Mar 13 j 13:51	7° <b>-</b> 40′32		minimum elong	-9034 Dec 08 j 23:11	14° <b>≏</b> 45'19	
min. Earth dist.	-9040 Jun 01 j 19:10	6° <b>Ω</b> 36'43	40.16143 AU	max. Earth dist.	-9034 Dec 12 i 06:53	14° <b>≏</b> 50'35	43.59428 AU
opposition	-9040 Jun 05 j 02:18	6° <b>ჲ</b> 32'28	-11°55'25	morning rise	-9034 Dec 16 j 21:14	14° <b>≏</b> 57'52	
direct	-9040 Aug 24 j 04:13	5° <b>Ω</b> 26'28		retrograde	-9033 Mar 23 j 06:10	16° <b>♀</b> 30'23	
evening set	-9040 Nov 20 j 17:21	6° <b>£</b> 53′20		min. Earth dist.	-9033 Jun 11 j 16:04		41.75712 AU
evening sec	70101107 20 j 17.21	0 —33 20		opposition	-9033 Jun 14 j 18:29	15° <b>⊆</b> 24'01	
conjunction	-9040 Nov 30 j 19:08	7° <b>Ω</b> 09'45	-11°20'51	direct	-9033 Sep 02 j 20:53	14° <b>£</b> 19'37	15 1111
minimum elong	-9040 Nov 30 j 18:53		11°29'52	evening set	-9033 Dec 03 j 00:14	15° <b>Ω</b> 47'34	
max. Earth dist.	-9040 Dec 04 j 04:55		42.23640 AU	evening set	-7033 Dec 03 j 00.14	13 — 47 34	
morning rise	-9040 Dec 10 j 22:11	7° <b>2</b> 26'15	42.23040 AU	conjunction	-9033 Dec 10 j 11:30	15° <b>≏</b> 59'20	13013117
retrograde	-9039 Mar 15 j 04:11	8° <b>£</b> 57'58		minimum elong	-9033 Dec 10 j 11:17	15° <b>⊆</b> 59'19	
min. Earth dist.	-9039 Jun 03 j 07:59		40.39619 AU	max. Earth dist.	-9033 Dec 10 j 11:17		43.80867 AU
	•				•		43.8080 / AU
opposition	-9039 Jun 06 j 15:43	7° <b>£</b> 50'09	-12-12-33	morning rise	-9033 Dec 17 j 23:14	16° <b>£</b> 11'08	
direct	-9039 Aug 25 j 16:26	6° <b>Ω</b> 44'23		retrograde	-9032 Mar 23 j 19:24	17° <b>Ω</b> 43'51	41.07122.411
evening set	-9039 Nov 22 j 14:36	8° <b>≏</b> 11'19		min. Earth dist.	-9032 Jun 12 j 03:31		41.97123 AU
	0020 B 02:00 22	00 0 2710 (	11046100	opposition	-9032 Jun 15 j 06:00		-13°5/43
conjunction	-9039 Dec 02 j 08:22	8° <b>Ω</b> 27'06		direct	-9032 Sep 03 j 07:10	15° <b>Ω</b> 33'28	
minimum elong	-9039 Dec 02 j 08:08		11°46'09	evening set	-9032 Dec 03 j 22:11	17° <b>≏</b> 01'38	
max. Earth dist.	-9039 Dec 05 j 18:51		42.46848 AU				
morning rise	-9039 Dec 12 j 03:16	8° <b>≏</b> 42'58		conjunction	-9032 Dec 10 j 23:06	17° <b>Ω</b> 12'41	
retrograde	-9038 Mar 16 j 17:52	10° <b>Ω</b> 14'45		minimum elong	-9032 Dec 10 j 22:52	17° <b>Ω</b> 12'40	
min. Earth dist.	-9038 Jun 04 j 22:31		40.62957 AU	max. Earth dist.	-9032 Dec 14 j 04:07		44.01892 AU
opposition	-9038 Jun 08 j 04:55	9° <b>≏</b> 07'10	-12°29'10	morning rise	-9032 Dec 18 j 00:28	17° <b>≏</b> 23'45	
direct	-9038 Aug 27 j 04:59	8° <b>₾</b> 01'39		retrograde	-9031 Mar 25 j 07:09	18° <b>≙</b> 56'41	
evening set	-9038 Nov 24 j 11:56	9° <b>≏</b> 28'41		min. Earth dist.	-9031 Jun 13 j 16:33		42.18150 AU
				opposition	-9031 Jun 16 j 17:18	17° <b>Ω</b> 50'42	-14°10'46
conjunction	-9038 Dec 03 j 21:22	9° <b>△</b> 43'50		direct	-9031 Sep 04 j 18:50	16° <b>≏</b> 46'38	
minimum elong	-9038 Dec 03 j 21:07	9° <b>Ω</b> 43'49	12°01'55	evening set	-9031 Dec 05 j 20:32	18° <b>≏</b> 15'06	
max. Earth dist.	-9038 Dec 07 j 07:03		42.69914 AU				
morning rise	-9038 Dec 13 j 07:43	9° <b>ჲ</b> 59'03		conjunction	-9031 Dec 12 j 10:38	18° <b>≏</b> 25'23	
retrograde	-9037 Mar 18 j 08:01	11° <b>≏</b> 30'55		minimum elong	-9031 Dec 12 j 10:26	18° <b>≏</b> 25'22	13°38'44
min. Earth dist.	-9037 Jun 06 j 10:56	10° <b>≏</b> 27'47	40.86113 AU	max. Earth dist.	-9031 Dec 15 j 15:18	18° <b>≏</b> 30'23	44.22578 AU
opposition	-9037 Jun 09 j 17:43	10° <b>≏</b> 23'36	-12°45'13	morning rise	-9031 Dec 19 j 00:57	18° <b>≏</b> 35'41	
direct	-9037 Aug 28 j 17:23	9° <b>≏</b> 18'19		retrograde	-9030 Mar 26 j 15:59	20° <b>≏</b> 08'52	
evening set	-9037 Nov 26 j 09:24	10° <b>≏</b> 45'30		min. Earth dist.	-9030 Jun 15 j 03:48	19° <b>≏</b> 06'48	42.38847 AU
				opposition	-9030 Jun 18 j 04:09	19° <b>ഫ</b> 03'03	-14°23'20
conjunction	-9037 Dec 05 j 10:09	11° <b>ഫ</b> 00'00	-12°17'08	direct	-9030 Sep 06 j 08:19	17° <b>≏</b> 59'09	
minimum elong	-9037 Dec 05 j 09:56	10° <b>≙</b> 59'59	12°17'11	evening set	-9030 Dec 07 j 19:11	19° <b>≏</b> 27'55	
max. Earth dist.	-9037 Dec 08 j 19:19	11° <b>≏</b> 05′26	42.92758 AU				
morning rise	-9037 Dec 14 j 11:56	11° <b>≏</b> 14'33		conjunction	-9030 Dec 13 j 21:47	19° <b>≏</b> 37'25	-13°50'34
retrograde	-9036 Mar 18 j 20:42	12° <b>≏</b> 46'34		minimum elong	-9030 Dec 13 j 21:34	19° <b>≏</b> 37'24	13°50'42
min. Earth dist.	-9036 Jun 07 j 00:46	11° <b>≏</b> 43'35	41.09034 AU	max. Earth dist.	-9030 Dec 17 j 00:59	19° <b>≏</b> 42'18	44.42962 AU
opposition	-9036 Jun 10 j 06:16	11° <b>≏</b> 39'30	-13°00'43	morning rise	-9030 Dec 20 j 00:38	19° <b>≏</b> 46'56	
direct	-9036 Aug 29 j 06:02	10° <b>≏</b> 34'28		retrograde	-9029 Mar 28 j 02:12	21° <b>≏</b> 20'24	
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Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9029 in astronomical counting style is the year 9030 BCE in historical counting style. -9029 Jun 16 j 15:05 20°**2**18'28 42.59283 AU retrograde -9022 Apr 04 i 22:27 29°**£**26'44 min. Earth dist. -9029 Jun 19 i 14:54 20° **2**14'45 -14°35'25 min. Earth dist. -9022 Jun 24 j 17:18 28°**2**25'46 43.95107 AU opposition -9029 Sep 07 j 19:49 19°**£**11'01 opposition -9022 Jun 27 j 11:27 28° \$\oldsymbol{\Omega}\)22'25 -15°46'57 direct -9029 Dec 09 j 18:22 20°**₽**40'09 -9022 Sep 15 j 20:00 direct 27°**£**19'52 evening set 20°**≏**48'49 -14°02'05 -9029 Dec 15 j 08:55 -9022 Dec 23 j 09:09 28°**2**54'58 -15°10'18 conjunction conjunction -9029 Dec 15 j 08:42 -9022 Dec 23 j 09:00 minimum elong 20°**£**48'49 14°02'14 minimum elong 28°**♀**54'57 15°10'31 20°**ჲ**53'42 44.63101 AU -9022 Dec 26 j 06:31 max. Earth dist. -9029 Dec 18 j 12:34 max. Earth dist. 28° **2**59'19 45.96771 AU  $0^{\circ}$ M morning rise -9029 Dec 20 j 23:33 20°**♀**57'31 -9021 Feb 08 j 11:15 retrograde -9028 Mar 28 j 10:01 22°**₽**31'20 retrograde -9021 Apr 06 j 09:01 0°M34'33 min. Earth dist. -9028 Jun 17 j 02:39 21°**≏**29'30 42.79473 AU -9021 Jun 03 j 11:40 30°ŖΩ min. Earth dist. -9021 Jun 26 j 04:45 opposition -9028 Jun 20 j 01:12 21°**2**25'51 -14°47'00 29°**♀**33'37 44.12998 AU -9021 Jun 28 j 20:38 direct -9028 Sep 08 j 08:41 20°**₽**22'17 opposition 29°**₽**30'24 -15°55'29 evening set -9028 Dec 10 j 18:15 21°**♀**51'51 direct -9021 Sep 17 j 04:34 28°**♀**28'00 -9021 Dec 22 j 23:10 0°M conjunction -9028 Dec 15 j 19:42 21° **2**59'39 -14°13'07 minimum elong -9028 Dec 15 j 19:30 21°**≏**59'38 14°13'16 conjunction -9021 Dec 24 j 19:03 0°ML02'44 -15°18'28 max. Earth dist. -9028 Dec 18 j 21:47 22°**♀**04'25 44.83030 AU minimum elong -9021 Dec 24 j 18:53 0°ML02'44 15°18'41 morning rise -9028 Dec 20 j 21:12 22°**♀**07'28 max. Earth dist. -9021 Dec 27 j 14:50 0°M06'58 46.14287 AU retrograde -9027 Mar 29 j 22:25 23°**-**41'42 retrograde -9020 Apr 06 j 19:20 1°M41'54 min. Earth dist. -9027 Jun 18 j 12:29 22°**♀**40'03 42.99458 AU min. Earth dist. -9020 Jun 26 j 13:58 0°M41'07 44.30387 AU opposition -9027 Jun 21 j 11:24 22° 236'24 -14°58'07 opposition -9020 Jun 29 i 05:21 0°M37'55 -16°03'38 direct -9027 Sep 09 i 17:10 21°**♀**33'00 -9020 Aug 01 i 19:25 30°R<u>Ω</u> evening set -9027 Dec 12 j 18:50 23°**₽**03'06 direct -9020 Sep 17 i 12:58 29°**£**35'38 -9020 Nov 02 j 12:22 0°M -9027 Dec 17 j 06:09 23°**2**09'57 -14°23'43 conjunction -9027 Dec 17 j 05:57 -9020 Dec 25 j 04:34 1°ML10'02 -15°26'15 23°**Ω**09'56 14°23'53 conjunction minimum elong -9027 Dec 20 j 08:18 -9020 Dec 25 j 04:25 1°ML10'02 15°26'30 max. Earth dist. 23°**♀**14'41 45.02742 AU minimum elong -9027 Dec 21 j 17:26 -9020 Dec 27 j 22:42 23°**Ω**16'48 max. Earth dist. 1°M14'09 46.31312 AU morning rise -9019 Apr 08 j 04:09 -9026 Mar 31 j 10:31 24°**£**51'33 2°M48'48 retrograde retrograde 1°ML48'04 44.47318 AU -9026 Jun 20 j 00:17 -9019 Jun 28 j 00:22 min. Earth dist. 23°**♀**50'00 43.19218 AU min. Earth dist. -9019 Jun 30 j 14:07 -9026 Jun 22 j 21:32 23°**£**46'27 -15°08'46 1°M44'57 -16°11'25 opposition opposition -9019 Sep 18 j 22:09 -9026 Sep 11 j 01:15 22°**₽**43'13 direct 0°M42'48 direct -9026 Dec 14 j 21:19 evening set 24°**♀**13'57 -9019 Dec 26 j 13:54 2°M16'50 -15°33'41 conjunction -9026 Dec 18 j 16:42 24°**2**19'47 -14°33'51 -9019 Dec 26 j 13:44 conjunction minimum elong 2°M16'50 15°33'55 2°M20'56 46.47911 AU -9026 Dec 18 j 16:31 24°**£**19'46 -9019 Dec 29 j 07:51 minimum elong 14°34'01 max. Earth dist. morning rise -9026 Dec 22 j 11:57 24°**£**25'35 retrograde -9018 Apr 09 j 09:08 3°M55'13 max. Earth dist. -9026 Dec 21 j 18:16 24°**2**24'27 45.22232 AU min. Earth dist. -9018 Jun 29 j 09:56 2°M54'33 44.63829 AU retrograde -9025 Apr 01 j 19:30 26°**♀**00'56 opposition -9018 Jul 01 j 22:33 2°ML51'30 -16°18'48 min. Earth dist. -9025 Jun 21 j 09:58 24°**♀**59'35 43.38717 AU direct -9018 Sep 20 j 10:23 1°ML49'28 -9025 Jun 24 j 07:10 24°**£**56'02 -15°18'57 opposition -9025 Sep 12 j 12:35 23°**♀**52'59 -9018 Dec 27 j 23:05 3°M23'09 -15°40'43 direct conjunction -9025 Dec 17 j 02:24 25°**≏**24'33 -9018 Dec 27 j 22:57 3°ML23'09 15°40'59 evening set minimum elong max. Earth dist. -9018 Dec 30 j 14:58 3°M27'06 46.64132 AU -9025 Dec 20 i 02:58 25°**2**29'10 -14°43'34 -9017 Apr 10 j 17:42 conjunction retrograde 5°ML01'09 -9025 Dec 20 i 02:47 minimum elong 25°**₽**29'09 14°43'45 min. Earth dist. -9017 Jun 30 j 18:28 4°ML00'36 44.80001 AU -9025 Dec 23 i 03:20 morning rise 25°**£**33'46 opposition -9017 Jul 03 i 06:40 3°M57'34 -16°25'48 max. Earth dist. -9025 Dec 23 i 03:00 25°**2**33'44 45.41435 AU direct -9017 Sep 21 j 19:08 2°M55'38 retrograde -9024 Apr 02 i 04:45 27°**£**09'55 min. Earth dist. -9024 Jun 21 j 20:49 26°**2**08'41 43.57913 AU -9017 Dec 29 i 08:09 4°M29'01 -15°47'23 conjunction -9024 Jun 24 j 16:51 26° **2**05'13 -15°28'42 minimum elong -9017 Dec 29 i 08:01 4°M29'00 15°47'38 opposition direct -9024 Sep 12 j 23:14 25°**£**02'21 max. Earth dist. -9016 Jan 01 j 00:00 4°MJ32'56 46.80032 AU retrograde evening set -9024 Dec 18 j 13:30 26°**£**35'09 -9016 Apr 11 j 02:53 6°M,06'39 min. Earth dist. -9016 Jul 01 j 04:23 5°ML06'08 44.95868 AU conjunction -9024 Dec 20 j 13:08 26°**£**38'10 -14°52'52 opposition -9016 Jul 03 j 14:47 5°ML03'12 -16°32'23 minimum elong -9024 Dec 20 j 12:58 26°**£**38'09 14°53'04 direct -9016 Sep 22 j 02:51 4°M01'24 -9024 Dec 22 j 12:32 26°**₽**41'10 morning rise -9024 Dec 23 j 13:17 26°**♀**42'43 45.60302 AU -9016 Dec 29 j 16:53 5°M34'27 -15°53'39 max. Earth dist. conjunction -9023 Apr 03 j 12:01 -9016 Dec 29 j 16:46 retrograde 28°**♀**18'31 minimum elong 5°M34'27 15°53'56 -9015 Jan 01 j 07:40 min. Earth dist. -9023 Jun 23 j 07:42 27°**£**17′24 43.76723 AU max. Earth dist. 5°M38'18 46.95664 AU opposition -9023 Jun 26 j 02:14 27°**£**14'01 -15°38'01 retrograde -9015 Apr 12 j 12:02 7°M11'45 direct -9023 Sep 14 j 11:15 26°**₽**11'19 min. Earth dist. -9015 Jul 02 j 11:58 6°M11'23 45.11467 AU opposition -9015 Jul 04 j 22:36  $6^{\circ}$ ML08'27  $-16^{\circ}$ 38'35 conjunction -9023 Dec 21 j 23:10 27°**2**46'46 -15°01'47 direct -9015 Sep 23 j 09:49 5°M06'46 minimum elong -9023 Dec 21 j 22:59 27°**2**46'45 15°01'59

-9015 Dec 31 j 01:29

conjunction

6°M39'32 -15°59'33

max. Earth dist.

-9023 Dec 24 j 21:09 27° **2**51'10 45.78769 AU

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•	cal year style is used: Th		•	, ·			, ,	02)
minimum elong	-9015 Dec 31 j 01:22	-	15°59'49	minimum elong		08 j 19:26	15° <b>M</b> ₊09'49	16°34'34
max. Earth dist.	-9014 Jan 02 j 15:04		47.11035 AU	max. Earth dist.		10 j 23:56	15°ML12'57	48.20964 AU
retrograde	-9014 Apr 13 j 21:03	8°M16'29		retrograde		22 j 04:50	16°M44'21	
min. Earth dist.	-9014 Jul 03 j 21:09	7° <b>M</b> 16′12	45.26814 AU	min. Earth dist.	_	12 j 16:03	15°M44'36	46.35618 AU
opposition	-9014 Jul 06 j 06:21	7°M13'21	-16°44'23	opposition	-9006 Jul	14 j 14:59	15°M42'18	-17°18'06
direct	-9014 Sep 24 j 17:16	6° <b>M</b> 11'48		••	-9006 Aug	23 j 06:40	15°RML	
				direct	-9006 Oct	03 j 10:38	14°M41'35	
conjunction	-9013 Jan 01 j 10:09	7° <b>M</b> 44'18	-16°05'04		-9006 Nov	12 j 23:16	15° <b>M</b> ₊	
minimum elong	-9013 Jan 01 j 10:02	7° <b>M</b> 44'17	16°05'22					
max. Earth dist.	-9013 Jan 03 j 23:45	7°M48'03	47.26156 AU	conjunction	-9005 Jan	10 j 03:13	16°M12'02	-16°37'07
retrograde	-9013 Apr 15 j 02:22	9° <b>™</b> 20'56		minimum elong	-9005 Jan	10 j 03:09	16°M12'02	16°37'29
min. Earth dist.	-9013 Jul 05 j 05:35	8°M20'45	45.41868 AU	max. Earth dist.	-9005 Jan	12 j 05:54	16°M15'03	48.32715 AU
opposition	-9013 Jul 07 j 13:52	8°M17'57	-16°49'47	retrograde	-9005 Apr	23 j 12:48	17° <b>M</b> 46'17	
direct	-9013 Sep 26 j 03:49	7°M16'32		min. Earth dist.	-9005 Jul	13 j 22:30	16°M46'37	46.47232 AU
				opposition	-9005 Jul	15 j 21:22	16°M44'19	-17°20'51
conjunction	-9012 Jan 02 j 18:34	8°M48'46	-16°10'13	direct	-9005 Oct	04 j 16:43	15°M43'40	
minimum elong	-9012 Jan 02 j 18:28		16°10'30					
max. Earth dist.	-9012 Jan 05 j 06:08	8°M52'24	47.40975 AU	conjunction	-9004 Jan	11 j 10:44	17°M13'53	-16°39'42
retrograde	-9012 Apr 15 j 09:59	10°M25'07		minimum elong	-9004 Jan	11 j 10:41	17°M13'53	16°40'05
min. Earth dist.	-9012 Jul 05 j 13:27		45.56609 AU	max. Earth dist.	-9004 Jan	13 j 12:15		48.44109 AU
opposition	-9012 Jul 07 j 21:12	9° <b>™</b> 22'18	-16°54'50	retrograde	-9004 Apr	23 j 21:19	18° <b>M</b> 47′50	
direct	-9012 Sep 26 j 11:37	8°M21'02		min. Earth dist.		14 j 06:39		46.58524 AU
				opposition	-9004 Jul	16 j 03:41	17°M45'57	-17°23'15
conjunction	-9011 Jan 03 j 02:59	9° <b>™</b> 53'00		direct	-9004 Oct	04 j 21:55	16°M45'23	
minimum elong	-9011 Jan 03 j 02:52	9° <b>™</b> 53'00	16°15'20					
max. Earth dist.	-9011 Jan 05 j 14:20		47.55447 AU	conjunction		11 j 18:13	18°M15'22	
retrograde	-9011 Apr 16 j 17:13	11°M29'04		minimum elong		11 j 18:10	18°M15'22	
min. Earth dist.	-9011 Jul 06 j 22:50		45.70965 AU	max. Earth dist.		13 j 19:27		48.55221 AU
opposition	-9011 Jul 09 j 04:31	10°M26'25	-16°59'31	retrograde	_	25 j 02:56	19° <b>M</b> 49'03	
direct	-9011 Sep 27 j 20:10	9° <b>™</b> 25'17		min. Earth dist.		15 j 13:15		46.69527 AU
				opposition		17 j 09:50	18° <b>M</b> ₊47'17	-17°25'19
conjunction	-9010 Jan 04 j 11:14	10° <b>™</b> 57'00		direct	-9003 Oct	06 j 05:23	17° <b>M</b> 46'47	
minimum elong	-9010 Jan 04 j 11:09	10°M57'00						
max. Earth dist.	-9010 Jan 06 j 20:50		47.69523 AU	conjunction		13 j 01:22	19° <b>M</b> ₁6'35	
retrograde	-9010 Apr 18 j 03:46	12°M32'46		minimum elong		13 j 01:20	19° <b>M</b> ₁6'34	16°44'15
min. Earth dist.	-9010 Jul 08 j 06:22		45.84880 AU	max. Earth dist.		15 j 00:42		48.66060 AU
opposition	-9010 Jul 10 j 11:39	11° <b>M</b> 30'16	-17°03'52	retrograde		26 j 09:30	20°M50′00	
direct	-9010 Sep 29 j 01:17	10°M29'15		min. Earth dist.		16 j 20:09		46.80266 AU
				opposition		18 j 15:59	19° <b>M</b> .48′21	-17°27'03
conjunction	-9009 Jan 05 j 19:31	12°M00'44		direct	-9002 Oct	07 j 12:01	18° <b>M</b> 47′57	
minimum elong	-9009 Jan 05 j 19:25	12°M00'44						
max. Earth dist.	-9009 Jan 08 j 03:30		47.83119 AU	conjunction		14 j 08:43	20°M17'33	
retrograde	-9009 Apr 19 j 13:15	13°M36'12	45.00204.433	minimum elong		14 j 08:41	20°M17'33	16°45'50
min. Earth dist.	-9009 Jul 09 j 15:40		45.98304 AU	max. Earth dist.		16 j 07:59		48.76626 AU
opposition	-9009 Jul 11 j 18:43	12°M33'50	-1707/54	retrograde	•	27 j 13:39	21°M50'46	46000006444
direct	-9009 Sep 30 j 06:30	11°M32'54		min. Earth dist.		18 j 03:43		46.90706 AU
	0000 1 07:02 40	120 <b>M</b> 04100	1 (007100	opposition		19 j 21:54	20°M49'14	-17/028/27
conjunction	-9008 Jan 07 j 03:48	13°M04'08		direct	-9001 Oct	08 j 20:42	19° <b>™</b> 48'56	
minimum elong	-9008 Jan 07 j 03:44	13°M04'08	16°27'47		0000 *		010M 10100	1.001.0111
max. Earth dist.	-9008 Jan 09 j 11:00		47.96223 AU	conjunction		15 j 15:55	21°M18'22	
retrograde	-9008 Apr 19 j 17:59	14°M39'17	46 11206 ATT	minimum elong		15 j 15:54	21°M18'22	16°47'08
min. Earth dist.	-9008 Jul 09 j 23:37		46.11206 AU	max. Earth dist.		17 j 13:29		48.86899 AU
opposition	-9008 Jul 12 j 01:37	13°M37'03	-1/*11'3/	retrograde	_	27 j 22:00	22°M51'22	47.00006.444
direct	-9008 Sep 30 j 16:49	12°M36'12		min. Earth dist.		18 j 09:48		47.00826 AU
aonium -+:	0007 I 07:11.27	1.40 <b>m</b> 0.7111	16021100	opposition		20 j 03:46	21°M49'59	-1/-29'31
conjunction	-9007 Jan 07 j 11:35	14°M07'11		direct	-9000 Oct	09 j 01:26	20° <b>M</b> 49'47	
minimum elong	-9007 Jan 07 j 11:30	14°M07'10	16°31'20	aaminus -ti	2000 1	15:00.51	220M 10104	16047142
max. Earth dist.	-9007 Jan 09 j 16:16		48.08822 AU	conjunction		15 j 22:51	22°M19'04	
ratragrada	-9007 Feb 15 j 11:20	15°M		minimum elong		15 j 22:50	22°M19'04	16°48'06
retrograde	-9007 Apr 20 j 23:24	15°M42'01		max. Earth dist.		17 j 19:19		48.96812 AU
in D d U :	-9007 Jun 25 j 23:20	15°RM	46.22622.433	retrograde	_	29 j 07:21	23°M51'52	47 10562 433
min. Earth dist.	-9007 Jul 11 j 07:26		46.23632 AU	min. Earth dist.		19 j 17:49		47.10563 AU
opposition	-9007 Jul 13 j 08:25	14°M39'52	-1/-15'02	opposition		21 j 09:39	22°M50'38	-1/-301/
direct	-9007 Oct 02 j 01:47	13°M39'06		direct	-8999 Oct	10 j 04:28	21°M50'32	
	-9006 Jan 01 j 22:32	15°M		aaniumatiam	0000 I	17;06:02	220M 10141	160/012/
agniumation	0006 Ion 00: 10:20	150M 00140	16024112	conjunction		17 j 06:03	23°M 19'41	
conjunction	-9006 Jan 08 j 19:29	15°M09'49	-10 34 13	minimum elong	-0998 Jan	17 j 06:02	23°M19'41	16°48'49

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -8998 in astronomical counting style is the year 8999 BCE in historical counting style. 23°M22'14 49.06325 AU max. Earth dist. -8998 Jan 19 j 01:41 conjunction -8990 Jan 25 j 12:16 1°**∡**17'47 -16°44'11 minimum elong -8998 Apr 30 j 12:37 24°M52'17 -8990 Jan 25 j 12:18 1°**∡**17'47 16°44'38 retrograde max. Earth dist. min. Earth dist. -8998 Jul 21 j 00:20 23°M53'03 47.19845 AU -8990 Jan 26 j 20:00 1°**х** 19'37 49.65394 AU -8990 May 08 j 08:32 -8998 Jul 22 j 15:15 23°ML51'10 -17°30'47 2°**х** 48'48 retrograde opposition -8998 Oct 11 j 11:58 -8990 Jul 29 j 04:45 1°**∡**749'44 47.77133 AU 22°M51'10 direct min. Earth dist. -8990 Jul 30 j 09:49 1° ₹ 48'20 -17°24'44 opposition 0°**∡**¹48'43 -8997 Jan 18 j 13:09 -8990 Oct 19 j 15:17 conjunction 24°M20'11 -16°48'48 direct -8997 Jan 18 j 13:09 minimum elong 24°M20'11 16°49'13 2°**₹**16'34 -16°42'24 -8997 Jan 20 j 06:07 -8989 Jan 26 j 18:44 max. Earth dist. 24°M22'34 49.15353 AU conjunction -8989 Jan 26 j 18:47 retrograde -8997 May 01 j 18:00 25°M52'35 minimum elong 2°**₹**16'34 16°42'52 -8989 Jan 28 j 01:27 min. Earth dist. -8997 Jul 22 j 07:32 24°M53'24 47.28626 AU max. Earth dist. 2° ₹ 18'20 49.71116 AU -8989 May 09 j 16:59 opposition -8997 Jul 23 j 21:00 24°M51'35 -17°30'59 retrograde 3°×47'25 -8997 Oct 12 j 19:14 -8989 Jul 30 j 11:51 2°**∡**¹48'21 47.82669 AU direct 23°M51'40 min. Earth dist. opposition -8989 Jul 31 j 14:54 2°**∡**147'03 -17°22'41 conjunction -8996 Jan 19 j 20:15 25°M20'32 -16°48'57 direct -8989 Oct 20 j 18:18 1°×747'29 minimum elong -8996 Jan 19 j 20:14 25°M20'32 16°49'23 max. Earth dist. -8996 Jan 21 j 12:37 25°M22'53 49.23856 AU conjunction -8988 Jan 28 j 01:08 3°**∡**15'14 -16°40'19 retrograde -8996 May 01 j 21:48 26°M52'44 minimum elong -8988 Jan 28 j 01:11 3°**∡**15'14 16°40'47 min. Earth dist. -8996 Jul 22 j 15:16 25°M53'33 47.36860 AU max. Earth dist. -8988 Jan 29 j 07:09 3° ₹16'57 49.76526 AU opposition -8996 Jul 24 j 02:34 25°ML51'51 -17°30'56 retrograde -8988 May 09 j 22:35 4°**∡**¹45'56 direct -8996 Oct 13 j 03:56 24°M52'00 opposition -8988 Jul 31 j 19:41 3°**∡**145'39 -17°20'20 min. Earth dist. -8988 Jul 30 i 17:04 3° ₹ 46'55 47.87856 AU conjunction -8995 Jan 20 i 03:10 26°M20'41 -16°48'51 direct -8988 Oct 20 j 23:19 2°**х** 46′08 minimum elong -8995 Jan 20 i 03:12 26°M20'41 16°49'17 max. Earth dist. -8995 Jan 21 i 17:15 26°M22'54 49.31843 AU conjunction -8987 Jan 28 i 07:24 4° ₹ 13'48 -16°37'59 retrograde -8995 May 03 j 04:40 27°ML52'42 minimum elong -8987 Jan 28 i 07:27 4°**х** 13'48 16°38'29 -8995 Jul 23 j 21:08 26°M53'34 47.44586 AU max. Earth dist. -8987 Jan 29 j 11:08 4° ₹15'23 49.81571 AU min. Earth dist. opposition -8995 Jul 25 j 08:00 26°ML51'53 -17°30'37 retrograde -8987 May 11 j 04:44 5°**х** 44′22 -8995 Oct 14 j 09:30 25°M52'05 -8987 Jul 31 j 23:28 4°**х** 45′22 47.92664 AU direct min. Earth dist. -8987 Aug 02 j 00:33 4°**₹**'44'10 -17°17'43 opposition 27°M20'37 -16°48'28 -8987 Oct 22 j 04:16 -8994 Jan 21 j 09:55 3°**х** 44'42 conjunction direct -8994 Jan 21 j 09:54 minimum elong 27°M20'37 16°48'55 -8994 Jan 22 j 22:31 -8986 Jan 29 j 13:48 5°**∡**12'18 -16°35'23 max. Earth dist. 27°M22'44 49.39329 AU conjunction -8994 May 04 j 12:42 -8986 Jan 29 j 13:52 28°M52'25 5°**≯**12'18 16°35'52 retrograde minimum elong -8994 Jul 25 j 04:55 27°M53'14 47.51836 AU max. Earth dist. -8986 Jan 30 j 17:10 5° ₹13'52 49.86198 AU min. Earth dist. -8994 Jul 26 j 13:27 -8986 May 12 j 07:36 6°**х** 42'44 opposition 27°M51'40 -17°30'01 retrograde -8994 Oct 15 j 13:38 -8986 Aug 02 j 06:14 5°**х** 43'44 47.97000 AU direct 26°M51'54 min. Earth dist. opposition -8986 Aug 03 j 05:25 5° ₹ 42'37 -17°14'51 conjunction -8993 Jan 22 j 16:47 28°M20'17 -16°47'49 direct -8986 Oct 23 j 12:28 4°**х**⁴43′13 minimum elong -8993 Jan 22 j 16:50 28°M20'17 16°48'16 -8993 Jan 24 j 04:39 max. Earth dist. 28°M22'21 49.46380 AU conjunction -8985 Jan 30 j 20:14 6°**≯**10'44 -16°32'32 retrograde -8993 May 05 j 19:18 29°M51'51 minimum elong -8985 Jan 30 j 20:17 6°**≯**10'44 16°33'02 -8993 Jul 26 j 10:42 28°M52'43 47.58664 AU max. Earth dist. -8985 Jan 31 j 21:05 6° ₹12'09 49.90338 AU min. Earth dist. -8993 Jul 27 j 18:33 28°M51'11 -17°29'08 retrograde -8985 May 13 j 13:01 7°**∡**¹41'02 opposition direct -8993 Oct 16 j 18:41 27°M51'27 min. Earth dist. -8985 Aug 03 j 11:38 6° ₹ 42'04 48.00825 AU 6°**∡**140'59 -17°11'44 opposition -8985 Aug 04 i 10:05 -8992 Jan 23 i 23:22 29°M19'41 -16°46'54 conjunction direct -8985 Oct 24 i 18:00 5°**∡**11'37 -8992 Jan 23 i 23:23 minimum elong 29°M19'41 16°47'21 -8992 Jan 25 i 08:59 -8984 Feb 01 i 02:37 7°**х** 09'03 -16°29'27 max. Earth dist. 29°M21'38 49.53039 AU conjunction -8992 Feb 23 i 01:11 0°**∡**¹ minimum elong -8984 Feb 01 i 02:42 7°**∡**<sup>1</sup>09'03 16°29'56 -8992 May 06 j 01:28 51'03 **اک** max. Earth dist. -8984 Feb 02 i 01:50 7° **₹**10'23 49.93938 AU retrograde -8992 Jul 19 j 16:33 30°RML retrograde -8984 May 13 i 19:41 8°**х** 39′14 opposition -8992 Jul 27 j 23:46 29°ML50'27 -17°27'58 -8984 Aug 04 j 14:58 7°**₹**39'15 -17°08'23 opposition -8992 Jul 26 i 17:03 7°**≯**40'12 48.04104 AU min. Earth dist. 29°M51'55 47.65140 AU min. Earth dist. -8984 Aug 03 j 19:00 direct -8992 Oct 17 j 00:14 28°M50'45 direct -8984 Oct 24 j 22:26 6°**х** 39′53 -8991 Jan 10 j 12:38 0°×7 -8983 Feb 01 j 08:48 conjunction 8°**∡**107'15 -16°26'08 -8991 Jan 24 j 05:49 0° ₹ 18'50 -16°45'41 minimum elong -8983 Feb 01 j 08:52 8°**₹**07'15 16°26'38 conjunction -8991 Jan 24 j 05:52 0° ₹ 18'50 16°46'09 max. Earth dist. -8983 Feb 02 j 06:55 8°**₰**08'30 49.97011 AU minimum elong -8991 Jan 25 j 15:22 0°**尽**20'46 49.59364 AU retrograde -8983 May 15 j 02:08 9°×37'17 max. Earth dist. -8991 May 07 j 03:00 1°**х** 50′01 retrograde opposition -8983 Aug 05 j 19:38 8°**∡**37'21 -17°04'47 -8991 Jul 27 j 23:39 min. Earth dist. 0°**х** 50′54 47.71284 AU min. Earth dist. -8983 Aug 05 j 00:27 8°**∡**38'16 48.06847 AU opposition -8991 Jul 29 j 04:55 0°**х** 49'29 -17°26'30 direct -8983 Oct 26 j 02:48 7°**∡**37'59 -8991 Sep 17 j 17:15 30°RM. direct -8991 Oct 18 j 09:13 29°M49'49 conjunction -8982 Feb 02 j 14:57 9°**х** 05′16 -16°22′35 -8991 Nov 17 j 18:57 0°×7 minimum elong -8982 Feb 02 j 15:03 9°**₹**05'17 16°23'05 max. Earth dist. -8982 Feb 03 j 10:31 9°**∡**06'23 49.99569 AU

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•	official of Pluto Hoff		•	/ /			E 31
retrograde	nical year style is used: Th -8982 May 16 j 08:27	10° <b>₹</b> 35'10	in astronomicai co	direct	-8974 Nov 04 j 01:49	ounting style. 16° <b>√</b> 16'04	
min. Earth dist.	-8982 Aug 06 j 06:37		48.09113 AU	direct	-09/4 NOV 04 J 01.49	10 × 10 04	
opposition	-8982 Aug 00 j 00:37	9° <b>х</b> ³30′00		conjunction	-8973 Feb 11 j 21:04	17° <b>∡</b> ¹43'07	15038155
direct	-8982 Oct 27 j 07:12	8° <b>×</b> 35'55	-17 00 37	minimum elong	-8973 Feb 11 j 21:04	17° <b>x</b> °43'07	
direct	-8982 Oct 2/ j 07.12	0 🗡 33 33		max. Earth dist.	-8973 Feb 12 j 05:49		50.06414 AU
conjunction	-8981 Feb 03 j 21:14	10° <b>∡</b> '03'07	16010147	retrograde	-8973 May 25 j 05:46	17 <b>x</b> 43 30	30.00414 AU
minimum elong	-8981 Feb 03 j 21:19	10 <b>x</b> 03 07 10° <b>x</b> 03 '08	16°19'18	opposition	-8973 Aug 15 j 15:25	19 <b>x</b> 12 18 18° <b>x</b> 12'51	16014!10
max. Earth dist.	-8981 Feb 04 j 16:18		50.01674 AU	min. Earth dist.	-8973 Aug 15 j 08:27		48.13555 AU
retrograde	-8981 May 17 j 10:28	10 <b>x</b> 04 12	30.01074 AU	direct	-8973 Nov 05 j 05:02	17° <b>✓</b> 13'37	46.13333 AU
opposition	-8981 Aug 08 j 04:41	11 <b>x</b> 32 33 101 <b>x</b> 33 101	16056!51	uncet	-6973 NOV 03 J 03.02	1/ 🗶 133/	
min. Earth dist.	-8981 Aug 07 j 12:46		48.10941 AU	conjunction	-8972 Feb 13 j 02:59	18° <b>∡</b> ′40'40	15032140
direct	-8981 Oct 28 j 15:04	9° <b>×</b> <sup>33'4</sup> 0	48.10941 AU	minimum elong	-8972 Feb 13 j 03:06	18° <b>х</b> 4040 18° <b>х</b> 40'41	
direct	-8981 Oct 28 j 15.04	9 <b>X</b> 33 40		max. Earth dist.	-8972 Feb 13 j 08:57		50.05213 AU
conjunction	-8980 Feb 05 j 03:13	11° <b>∡</b> 00'48	-16°14'44	retrograde	-8972 May 25 j 13:26	20° <b>₹</b> 100	30.03213 AC
minimum elong	-8980 Feb 05 j 03:20	11°× 00'48		opposition	-8972 Aug 15 j 19:48	19°× 10'22	-16°07'51
max. Earth dist.	-8980 Feb 05 j 20:20		50.03388 AU	min. Earth dist.	-8972 Aug 15 j 14:41		48.11997 AU
retrograde	-8980 May 17 j 14:35	12° <b>×</b> <sup>7</sup> 30'27	30.03300 AO	direct	-8972 Nov 05 j 07:39	18° <b>∡</b> 10'37	40.11 <i>))// A</i> O
opposition	-8980 Aug 08 j 09:03	11°× 30'27	16°52'20	direct	-07/2 NOV 03 j 07.37	10 × 1107	
min. Earth dist.	-8980 Aug 07 j 17:30		48.12409 AU	conjunction	-8971 Feb 13 j 09:06	19° <b>∡</b> ³38'11	-15°26'29
direct	-8980 Oct 28 j 21:19	11 <b>≯</b> 31 22 10° <b>≯</b> 31'16	40.12407 AO	minimum elong	-8971 Feb 13 j 09:15	19° <b>₹</b> 38'11	15°27'02
direct	-0700 Oct 20 j 21.17	10 × 31 10		max. Earth dist.	-8971 Feb 13 j 14:24		50.03490 AU
conjunction	-8979 Feb 05 i 09:12	11° <b>∡</b> 58′21	16°10'24	retrograde	-8971 May 26 j 16:18	21°×707'15	30.03490 AO
minimum elong	-8979 Feb 05 j 09:17	11° 🖈 58'21		opposition	-8971 Aug 17 j 00:05	20°×707'50	16°01'10
max. Earth dist.	-8979 Feb 06 j 01:15		50.04759 AU	min. Earth dist.	-8971 Aug 16 j 20:42		48.09906 AU
retrograde	-8979 May 18 j 21:51	13° <b>₹</b> 27'54	30.04737 AO	direct	-8971 Nov 06 j 14:36	19° <b>₹</b> '08'32	40.07700 AC
opposition	-8979 Aug 09 j 13:30	13 × 27 34 12°× 28'07	-16°47'50	direct	-07/1 NOV 00 J 14.30	17 × 00 32	
min. Earth dist.	-8979 Aug 08 j 23:54		48.13561 AU	conjunction	-8970 Feb 14 j 15:02	20° <b>∡</b> ³35'36	-15°10'56
direct	-8979 Oct 30 j 00:29	11° × 28'46	48.13301 AU	minimum elong	-8970 Feb 14 j 15:10	20° <b>₹</b> 35'36	
direct	-0777 Oct 30 j 00.27	11 × 20 40		max. Earth dist.	-8970 Feb 14 j 17:58		50.01268 AU
conjunction	-8978 Feb 06 j 15:10	12° <b>∡</b> 55'48	-16°05'49	retrograde	-8970 May 27 j 18:50	22°× 04'36	30.01200710
minimum elong	-8978 Feb 06 j 15:17	12° <b>x</b> 55'49	16°06'20	opposition	-8970 Aug 18 j 04:19	21° <b>x</b> 04'30	-15°54'15
max. Earth dist.	-8978 Feb 07 j 06:36		50.05847 AU	min. Earth dist.	-8970 Aug 18 j 01:41		48.07335 AU
retrograde	-8978 May 20 j 03:50	14° × 25'16	30.03017110	direct	-8970 Nov 07 j 21:51	20° <b>₹</b> 05'51	10.07333 110
opposition	-8978 Aug 10 j 17:51	13° <b>₹</b> 25'32	-16°42'54	ancet	0970110V 07 J 21:31	20 7 03 31	
min. Earth dist.	-8978 Aug 10 j 04:26		48.14415 AU	conjunction	-8969 Feb 15 j 21:04	21° <b>х</b> 32'54	-15°13'09
direct	-8978 Oct 31 j 03:55	12° <b>₹</b> 26'11	10.11.110.110	minimum elong	-8969 Feb 15 j 21:13	21°×32'55	
	0,70 000 51, 05.50	12 7 20 11		max. Earth dist.	-8969 Feb 15 j 22:37		49.98572 AU
conjunction	-8977 Feb 07 j 21:06	13° <b>₹</b> ′53'13	-16°00'57	retrograde	-8969 May 28 j 23:55	23°×701'51	
minimum elong	-8977 Feb 07 j 21:12	13° <b>₹</b> ′53'13		opposition	-8969 Aug 19 j 08:32	22° <b>₹</b> 02'25	-15°47'05
max. Earth dist.	-8977 Feb 08 j 10:24		50.06641 AU	min. Earth dist.	-8969 Aug 19 j 08:09		48.04325 AU
retrograde	-8977 May 21 j 09:51	15° <b>₹</b> 22'36		direct	-8969 Nov 09 j 03:04	21° <b>₹</b> '03'02	
opposition	-8977 Aug 11 j 22:10	14° <b>∡</b> ¹22'55	-16°37'42		J		
min. Earth dist.	-8977 Aug 11 j 10:08		48.14987 AU	conjunction	-8968 Feb 17 j 03:02	22° <b>∡</b> ³30′05	-15°06'06
direct	-8977 Nov 01 j 08:09	13° <b>∡</b> ′23'36		minimum elong	-8968 Feb 17 j 03:10	22° <b>∡</b> ³30′06	15°06'39
	J			max. Earth dist.	-8968 Feb 17 j 03:43	22° <b>∡</b> ³30′08	49.95488 AU
conjunction	-8976 Feb 09 j 03:07	14° <b>∡</b> ′50′38	-15°55'49	retrograde	-8968 May 29 j 06:01	23° <b>₹</b> '59'00	
minimum elong	-8976 Feb 09 j 03:14	14° <b>∡</b> ′50′38	15°56'21	opposition	-8968 Aug 19 j 12:43	22° <b>₹</b> 59'33	-15°39'39
max. Earth dist.	-8976 Feb 09 j 16:22	14° <b>∡</b> ′51′23	50.07143 AU	min. Earth dist.	-8968 Aug 19 j 12:35	22° <b>₹</b> 59'33	48.00942 AU
retrograde	-8976 May 21 j 11:50	16° <b>∡</b> 19'57		direct	-8968 Nov 09 j 06:24	22° <b>∡</b> ¹00'07	
opposition	-8976 Aug 12 j 02:33	15° <b>∡</b> °20′19	-16°32'14	evening set	-8967 Feb 16 j 18:11	23° <b>₹</b> ¹26'22	
min. Earth dist.	-8976 Aug 11 j 15:55	15° <b>∡</b> ′20′50	48.15236 AU	-	-		
direct	-8976 Nov 01 j 16:02	14° <b>∡</b> °21′02		conjunction	-8967 Feb 17 j 08:40	23° <b>∡</b> ¹27'11	-14°58'49
				minimum elong	-8967 Feb 17 j 08:50	23° <b>∡</b> 27'12	14°59'22
conjunction	-8975 Feb 09 j 08:51	15° <b>∡</b> ¹48'04	-15°50'26	evening rise	-8967 Feb 17 j 23:30	23° <b>∡</b> 28′01	
minimum elong	-8975 Feb 09 j 08:58	15° <b>∡</b> ¹48'05	15°50'57	max. Earth dist.	-8967 Feb 17 j 07:18	23° <b>∡</b> ¹27'07	49.92052 AU
max. Earth dist.	-8975 Feb 09 j 20:03	15° <b>∡</b> ¹48'43	50.07319 AU	retrograde	-8967 May 30 j 12:27	24° <b>₹</b> 56'03	
retrograde	-8975 May 22 j 16:27	17° <b>∡</b> 17'21		opposition	-8967 Aug 20 j 16:58	23° <b>х</b> 56'36	-15°31'58
opposition	-8975 Aug 13 j 06:49	16° <b>∡</b> 17'47	-16°26'30	min. Earth dist.	-8967 Aug 20 j 18:21	23° <b>х</b> 56'32	47.97243 AU
min. Earth dist.	-8975 Aug 12 j 20:37	16° <b>∤</b> 18'16	48.15130 AU	direct	-8967 Nov 10 j 09:52	22° <b>₹</b> 57'08	
direct	-8975 Nov 02 j 21:27	15° <b>∡</b> 18'32		evening set	-8966 Feb 16 j 09:57	24° <b>₹</b> 21'16	
conjunction	-8974 Feb 10 j 14:53	16° <b>∡</b> 745'34	-15°44'48	conjunction	-8966 Feb 18 j 14:39	24° <b>₹</b> ¹24'14	-14°51'16
minimum elong	-8974 Feb 10 j 15:00	16° <b>∡</b> °45'34	15°45'20	minimum elong	-8966 Feb 18 j 14:48	24° <b>₹</b> 24'15	14°51'49
max. Earth dist.	-8974 Feb 11 j 00:46	16° <b>∡</b> °46′08	50.07092 AU	max. Earth dist.	-8966 Feb 18 j 13:09	24° <b>₹</b> 24'09	49.88315 AU
retrograde	-8974 May 23 j 22:32	18° <b>∤</b> 14'49		morning rise	-8966 Feb 20 j 19:41	24° <b>₹</b> 27'14	
opposition	-8974 Aug 14 j 11:07	17° <b>∡</b> 15'19	-16°20'31	retrograde	-8966 May 31 j 15:13	25° <b>₹</b> 53'05	
min. Earth dist.	-8974 Aug 14 j 03:26	17° <b>∡</b> 15'41	48.14591 AU	opposition	-8966 Aug 21 j 21:08	24° <b>∡</b> ¹53'38	-15°24'00

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Attention, astronomical year style is used: The year -8966 in astronomical counting style is the year 8967 BCE in historical counting style.							
min. Earth dist.	-8966 Aug 21 j 23:40	-	47.93238 AU	evening set	-8959 Feb 19 j 03:34	0° <b>る</b> 57'55	
direct	-8966 Nov 11 j 16:50	23° <b>х</b> 54′08		Č	ý		
evening set	-8965 Feb 16 j 19:07	25° <b>∡</b> 17'08		conjunction	-8959 Feb 25 j 09:06	1° <b>る</b> 06'23	-13°51'23
Ü	3			minimum elong	-8959 Feb 25 j 09:16	1° <b>る</b> 06'24	13°51'57
conjunction	-8965 Feb 19 j 20:34	25° <b>∡</b> ′21'18	-14°43'27	max. Earth dist.	-8959 Feb 24 j 20:33	1° <b>る</b> 05'40	49.52257 AU
minimum elong	-8965 Feb 19 j 20:44	25° <b>∡</b> ′21'18		morning rise	-8959 Mar 03 j 15:06	1° <b>る</b> 14'53	
max. Earth dist.	-8965 Feb 19 j 17:05		49.84298 AU	retrograde	-8959 Jun 07 j 04:16	2° <b>ප</b> 35'29	
morning rise	-8965 Feb 22 j 22:25	25° <b>₹</b> '25'28		opposition	-8959 Aug 28 j 03:28	1° <b>ප</b> 36'09	-14°21'07
retrograde	-8965 Jun 01 j 19:36	26° <b>₹</b> '50'08		min. Earth dist.	-8959 Aug 28 j 15:46		47.54766 AU
opposition	-8965 Aug 23 j 01:20	25° <b>₹</b> '50'42	-15°15'47	direct	-8959 Nov 18 j 03:17	0° <b>る</b> 36'29	
min. Earth dist.	-8965 Aug 23 j 04:12	25° <b>₹</b> '50'34	47.88954 AU	evening set	-8958 Feb 20 j 00:21	1° <b>る</b> 55'19	
direct	-8965 Nov 12 j 22:22	24° <b>∡</b> ′51'11		C	,		
evening set	-8964 Feb 17 j 08:25	26° <b>₹</b> 13′20		conjunction	-8958 Feb 26 j 15:27	2° <b>る</b> 04'20	-13°41'54
•	·			minimum elong	-8958 Feb 26 j 15:39	2° <b>ප</b> 04'21	13°42'27
conjunction	-8964 Feb 21 j 02:26	26° <b>₹</b> 18'25	-14°35'23	max. Earth dist.	-8958 Feb 26 j 01:41	2° <b>る</b> 03'33	49.45180 AU
minimum elong	-8964 Feb 21 j 02:35	26° <b>₹</b> 18′26	14°35'56	morning rise	-8958 Mar 05 j 07:00	2° <b>る</b> 13'23	
max. Earth dist.	-8964 Feb 20 j 21:59	26° <b>х</b> 18′10	49.79979 AU	retrograde	-8958 Jun 08 j 11:22	3° <b>る</b> 33'28	
morning rise	-8964 Feb 24 j 20:50	26° <b>₹</b> 23'32		opposition	-8958 Aug 29 j 07:44	2° <b>る</b> 34'06	-14°11'10
retrograde	-8964 Jun 02 j 00:46	27° <b>∡</b> ′47′18		min. Earth dist.	-8958 Aug 29 j 20:41	2° <b>る</b> 33'29	47.47291 AU
opposition	-8964 Aug 23 j 05:39	26° <b>х</b> 47′53	-15°07'17	direct	-8958 Nov 19 j 06:20	1° <b>る</b> 34'21	
min. Earth dist.	-8964 Aug 23 j 10:34	26° <b>х</b> 47′39	47.84355 AU	evening set	-8957 Feb 20 j 21:26	2° <b>る</b> 52'46	
direct	-8964 Nov 13 j 03:07	25° <b>х</b> 48′22					
evening set	-8963 Feb 17 j 00:19	27° <b>х</b> 09′48		conjunction	-8957 Feb 27 j 21:44	3° <b>る</b> 02'19	-13°32'10
				minimum elong	-8957 Feb 27 j 21:54	3° <b>る</b> 02'19	13°32'45
conjunction	-8963 Feb 21 j 08:27	27° <b>∡</b> 15'41	-14°27'03	max. Earth dist.	-8957 Feb 27 j 05:24	3° <b>る</b> 01'23	49.37608 AU
minimum elong	-8963 Feb 21 j 08:37	27° <b>∡</b> 15'42	14°27'38	morning rise	-8957 Mar 06 j 22:33	3° <b>る</b> 11'53	
max. Earth dist.	-8963 Feb 21 j 03:13	27° <b>∡</b> 15′23	49.75345 AU	retrograde	-8957 Jun 09 j 18:34	4° <b>る</b> 31'29	
morning rise	-8963 Feb 25 j 16:58	27° <b>∡</b> "21′36		opposition	-8957 Aug 30 j 12:15	3° <b>る</b> 32'05	-14°00'59
retrograde	-8963 Jun 03 j 07:19	28° <b>∡</b> ¹44'36		min. Earth dist.	-8957 Aug 31 j 03:07	3° <b>る</b> 31'22	47.39364 AU
opposition	-8963 Aug 24 j 09:47	27° <b>∡</b> ¹45′13	-14°58'32	direct	-8957 Nov 20 j 09:27	2° <b>る</b> 32'15	
min. Earth dist.	-8963 Aug 24 j 15:10	27° <b>∡</b> °44'58	47.79402 AU	evening set	-8956 Feb 21 j 18:48	3° <b>ප</b> 50'16	
direct	-8963 Nov 14 j 06:33	26° <b>∡</b> ¹45'41		max. Earth dist.	-8956 Feb 28 j 11:19	3° <b>る</b> 59'22	49.29609 AU
evening set	-8962 Feb 17 j 17:37	28° <b>₹</b> 06'31					
				conjunction	-8956 Feb 29 j 03:58	4° <b>る</b> 00'19	-13°22'13
conjunction	-8962 Feb 22 j 14:28	28° <b>∡</b> 13'07		minimum elong	-8956 Feb 29 j 04:09	4° <b>る</b> 00'19	13°22'47
minimum elong	-8962 Feb 22 j 14:38	28° <b>∡</b> 13′08	14°19'03	morning rise	-8956 Mar 07 j 13:32	4° <b>る</b> 10'24	
max. Earth dist.	-8962 Feb 22 j 06:43		49.70317 AU	retrograde	-8956 Jun 09 j 22:11	5° <b>る</b> 29'31	
morning rise	-8962 Feb 27 j 11:48	28° <b>∡</b> 19'45		opposition	-8956 Aug 30 j 16:43	4°る30'04	
retrograde	-8962 Jun 04 j 15:41	29° <b>∡</b> ¹42'04		min. Earth dist.	-8956 Aug 31 j 08:46		47.31029 AU
opposition	-8962 Aug 25 j 14:08	28° <b>∡</b> ⁴42'44		direct	-8956 Nov 20 j 16:35	3°₹30'09	
min. Earth dist.	-8962 Aug 25 j 21:22		47.74025 AU	evening set	-8955 Feb 21 j 16:35	4° <b>る</b> 47'47	
direct	-8962 Nov 15 j 08:36	27° <b>∡</b> ′43'11					
evening set	-8961 Feb 18 j 12:15	29° <b>∡</b> 03'28		conjunction	-8955 Mar 01 j 10:08		-13°12'00
	0061 E 1 22 : 20 47	200 710144	1.400.014.1	minimum elong	-8955 Mar 01 j 10:19	4°る58'21	
conjunction	-8961 Feb 23 j 20:47	29° 🗷 10'44		max. Earth dist.	-8955 Feb 28 j 15:25		49.21250 AU
minimum elong	-8961 Feb 23 j 20:57	29° <b>₹</b> 10'45	14°10'15	morning rise	-8955 Mar 09 j 04:13	5°る08'54	
max. Earth dist.	-8961 Feb 23 j 12:24		49.64823 AU	retrograde	-8955 Jun 11 j 02:04	6° <b>る</b> 27'35	12920150
morning rise	-8961 Mar 01 j 05:42	29°メ18'02 0°る		opposition	-8955 Aug 31 j 21:05	5°る28'05	
. 1	-8961 Apr 03 j 04:02			min. Earth dist.	-8955 Sep 01 j 13:37		47.22366 AU
retrograde	-8961 Jun 05 j 20:02	0°る39'44 30°Ŗズ		direct	-8955 Nov 21 j 23:18	4°る28'05 5°る45'23	
annagition	-8961 Aug 09 j 07:39	30 Kx. 29° ₹ 40'25	1.4940!17	evening set	-8954 Feb 22 j 14:34	3 043 23	
opposition min. Earth dist.	-8961 Aug 26 j 18:29		47.68140 AU	aaniunation	9054 Mar 02 i 16:20	5°₹56'24	12901!21
	-8961 Aug 27 j 03:28		47.08140 AU	conjunction	-8954 Mar 02 j 16:29	5° <b>る</b> 56'24	
direct	-8961 Nov 16 j 14:47	28° <b>メ</b> *40'51 0°る		minimum elong max. Earth dist.	-8954 Mar 02 j 16:40 -8954 Mar 01 j 20:46		49.12566 AU
evening set	-8960 Feb 18 j 20:49 -8960 Feb 19 j 07:43	0° <b>ろ</b> 00'37		morning rise	-8954 Mar 10 j 18:50	5 03310 6°る07'26	49.12300 AU
evening set	-07001 CU 17 J 07.43	0 00037		retrograde	-8954 Jun 12 j 06:13	7°る25'44	
conjunction	-8960 Feb 25 j 02:58	0° <b>ろ</b> 08'30	-14°00'38	opposition	-8954 Sep 02 j 01:44	6°る26'11	-13°28'51
minimum elong	-8960 Feb 25 j 03:09	0° <b>ろ</b> 08'31	14°01'12	min. Earth dist.	-8954 Sep 02 j 01:44 -8954 Sep 02 j 20:16		47.13393 AU
max. Earth dist.	-8960 Feb 24 j 16:05		49.58815 AU	direct	-8954 Nov 23 j 05:36	5°පි26'06	.,.13373 AU
morning rise	-8960 Mar 01 j 22:43	0° <b>る</b> 0733	7.50015 AU	evening set	-8953 Feb 23 j 13:03	5 82000 6° <b>8</b> 43'04	
retrograde	-8960 Jun 05 j 23:30	1°る37'33		creming set	0,00 1 <b>0</b> 0 20 j 10.00	U U T J U T	
opposition	-8960 Aug 26 j 22:55	1 03/33 0°る38'14	-14°30'49	conjunction	-8953 Mar 03 j 22:52	6° <b>ス</b> 5 <u>4</u> 132	-12°50'46
min. Earth dist.	-8960 Aug 27 j 08:46		47.61728 AU	minimum elong	-8953 Mar 03 j 22:32	6°る54'33	
	-8960 Oct 02 j 04:28	30°R. <b>✓</b>	,	max. Earth dist.	-8953 Mar 03 j 02:26		49.03600 AU
direct	-8960 Nov 16 j 21:19	29° <b>∡</b> ³38'37		morning rise	-8953 Mar 12 j 09:03	7° <b>る</b> 06'03	
	-8959 Jan 01 j 05:20	გ∘ე		retrograde	-8953 Jun 13 j 12:06	8° <b>පි</b> 23'57	
	-				-		

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -8953 in astronomical counting style is the year 8954 BCE in historical counting style. -8953 Sep 03 i 06:13 7°る24'23 -13°17'35 max. Earth dist. -8946 Mar 09 i 14:44 13°る44'53 48.30411 AU opposition 7°る23'29 47.04132 AU -8953 Sep 04 j 00:49 -8946 Mar 21 j 09:38 14°る01'09 min. Earth dist. morning rise -8953 Nov 24 j 10:17 6°₹24'13 -8946 Jun 20 j 08:20 15°る16'58 direct retrograde 7°る40'53 -8946 Sep 09 j 16:22 -8952 Feb 24 j 11:39 14°る17'03 -11°51'22 evening set opposition max. Earth dist. -8952 Mar 03 j 06:35 -8946 Sep 10 j 21:02 7°る51'31 48.94345 AU min. Earth dist. 14°る15'40 46.28359 AU -8946 Nov 30 j 21:25 direct 13°**る**16'16 conjunction -8952 Mar 04 j 05:10 7°る52'48 -12°39'46 evening set -8945 Mar 01 j 10:30 14°る31'23 -8952 Mar 04 j 05:22 minimum elong 7°る52'49 12°40'21 max. Earth dist. -8945 Mar 10 j 19:21 14°る44'19 48.18075 AU morning rise -8952 Mar 12 j 23:14 8°**る**04'47 retrograde -8952 Jun 13 j 21:22 9°る22'20 conjunction -8945 Mar 12 j 04:36 14°₹46'14 -11°15'38 opposition -8952 Sep 03 j 10:55 8°**る**22'43 -13°06'03 minimum elong -8945 Mar 12 j 04:48 14°る46'15 11°16'12 -8945 Mar 22 j 23:03 15°**る**01'07 min. Earth dist. -8952 Sep 04 j 07:06 8°る21'45 46.94587 AU morning rise -8945 Jun 21 j 13:50 direct -8952 Nov 24 j 11:46 7°る22'30 retrograde 16°**ප**16'40 evening set -8951 Feb 24 j 10:25 8°**る**38'53 opposition -8945 Sep 10 j 21:25 15°る16'41 -11°38'01 min. Earth dist. -8945 Sep 12 j 02:57 15°る15'15 46.15658 AU conjunction -8951 Mar 05 j 11:35 8°る51'16 -12°28'29 direct -8945 Dec 02 j 04:15 14°る15'46 minimum elong -8951 Mar 05 j 11:46 8°る51'17 12°29'03 evening set -8944 Mar 01 j 11:12 15°る30'43 max. Earth dist. -8951 Mar 04 j 12:56 8°る49'58 48.84785 AU max. Earth dist. -8944 Mar 11 j 01:22 15°る43'58 48.05323 AU morning rise -8951 Mar 14 j 13:03 9°**ට**03'41 retrograde -8951 Jun 15 j 03:14 10°る20'54 conjunction -8944 Mar 12 j 11:42 15°る45'57 -11°02'38 opposition -8951 Sep 04 j 15:40 9°る21'16 -12°54'15 minimum elong -8944 Mar 12 j 11:53 15°る45'58 11°03'12 min. Earth dist. -8951 Sep 05 i 13:03 9°る20'14 46.84696 AU morning rise -8944 Mar 23 j 12:21 16°**ප**01'13 -8951 Nov 25 i 17:15 8°る20'58 retrograde -8944 Jun 21 j 18:21 17°る16'33 direct evening set -8950 Feb 25 i 09:47 9°る37'07 opposition -8944 Sep 11 i 02:42 16°る16'28 -11°24'24 min. Earth dist. -8944 Sep 12 i 10:16 16°る14'56 46.02578 AU -8950 Mar 06 j 18:08 9°る49'56 -12°16'58 -8944 Dec 02 j 11:25 15°る15'25 conjunction direct -8950 Mar 06 j 18:20 9°**ප්**49'57 12°17'32 -8943 Mar 02 j 12:06 16°る30'13 evening set minimum elong -8950 Mar 05 j 17:15 9°る48'31 48.74863 AU max. Earth dist. -8943 Mar 12 j 07:33 16°る43'47 47.92236 AU max. Earth dist. -8950 Mar 16 j 02:57 10°**ට**02'46 morning rise -8950 Jun 16 j 08:13 11°**る**19'42 -8943 Mar 13 j 18:40 16°る45'49 -10°49'21 conjunction retrograde 16°る45'50 10°49'54 -8950 Sep 05 j 20:17 -8943 Mar 13 j 18:53 10°る20'02 -12°42'10 minimum elong opposition -8950 Sep 06 j 18:36 -8943 Mar 25 j 01:20 min. Earth dist. 10°る18'57 46.74415 AU 17°**る**01'28 morning rise 9°**る**19'40 -8943 Jun 23 j 00:13 -8950 Nov 26 j 23:05 18°**る**16'36 direct retrograde -8949 Feb 26 j 09:23 10°る35'36 -8943 Sep 12 j 07:56 17°**ට**16'26 -11°10'30 evening set opposition 17°る14'53 45.89179 AU -8949 Mar 06 j 22:37 10°る47'19 48.64496 AU -8943 Sep 13 j 15:34 max. Earth dist. min. Earth dist. -8943 Dec 03 j 17:24 direct 16°**る**15'15 10°₹48'50 -12°05'11 -8949 Mar 08 j 00:57 conjunction evening set -8942 Mar 03 j 13:21 17°**る**29'54 minimum elong -8949 Mar 08 j 01:09 10°る48'51 12°05'45 max. Earth dist. -8942 Mar 13 j 12:36 17°る43'44 47.78843 AU morning rise -8949 Mar 17 j 16:53 11°**る**02'06 retrograde -8949 Jun 17 j 12:02 12°る18'44 conjunction -8942 Mar 15 j 01:50 17°る45'54 -10°35'48 -8949 Sep 07 j 01:18 11°**ට**19'01 -12°29'51 minimum elong -8942 Mar 15 j 02:01 17°る45'54 10°36'20 opposition min. Earth dist. -8949 Sep 08 j 01:55 11°る17'50 46.63662 AU -8942 Mar 26 j 14:33 18°**る**01'55 morning rise -8949 Nov 28 j 06:37 10°る18'35 -8942 Jun 24 j 09:38 19°**ට**16'51 direct retrograde -8948 Feb 27 j 09:14 11°る34'17 -8942 Sep 13 j 13:17 18°ත්16'36 -10°56'18 evening set opposition -8948 Mar 07 j 04:08 11°る46'21 48.53649 AU min. Earth dist. -8942 Sep 14 j 22:35 18°る14'58 45.75507 AU max. Earth dist. direct -8942 Dec 04 i 20:07 17°る15'18 conjunction -8948 Mar 08 i 07:41 11°る47'56 -11°53'10 evening set -8941 Mar 04 i 14:48 18°る29'51 minimum elong -8948 Mar 08 i 07:52 11°る47'57 11°53'44 max. Earth dist. -8941 Mar 14 j 20:04 18°る44'03 47.65193 AU morning rise -8948 Mar 18 i 06:24 12°る01'37 -8948 Jun 17 i 18:26 13°る17'58 -8941 Mar 16 i 09:14 18°る46'13 -10°21'58 retrograde conjunction -8948 Sep 07 j 06:14 12°る18'13 -12°17'17 -8941 Mar 16 i 09:26 18°る46'14 10°22'31 opposition minimum elong min. Earth dist. -8948 Sep 08 j 07:27 12°る16'59 46.52400 AU -8941 Mar 28 j 03:33 19°**る**02'36 morning rise -8948 Nov 28 j 11:37 11°る17'40 -8941 Jun 25 j 17:06 20°る17'23 direct retrograde evening set -8947 Feb 27 j 09:23 12°る33'10 opposition -8941 Sep 14 j 18:51 19°る17'03 -10°41'49 -8941 Sep 16 j 04:54 max. Earth dist. -8947 Mar 08 j 08:20 12°る45'29 48.42281 AU min. Earth dist. 19°る15'23 45.61576 AU -8941 Dec 06 j 01:34 direct 18°る15'38 conjunction -8947 Mar 09 j 14:32 12°る47'13 -11°40'54 evening set -8940 Mar 04 j 16:27 19°る30'06 -8947 Mar 09 j 14:44 12°る47'14 11°41'28 max. Earth dist. -8940 Mar 15 j 01:19 19°る44'34 47.51298 AU minimum elong -8947 Mar 19 j 20:07 13°**る**01'18 morning rise -8947 Jun 19 j 02:40 14°る17'24 -8940 Mar 16 j 16:23 19°る46'51 -10°07'51 retrograde conjunction -8940 Mar 16 j 16:35 19°る46'52 10°08'24 opposition -8947 Sep 08 j 11:15 13°る17'34 -12°04'27 minimum elong min. Earth dist. -8947 Sep 09 j 14:37 13°る16'14 46.40631 AU morning rise -8940 Mar 28 j 16:28 20°る03'36 direct -8947 Nov 29 j 14:31 12°**る**16'54 retrograde -8940 Jun 26 j 00:24 21°**ප**18'14 opposition evening set -8946 Feb 28 j 09:47 13°**る**32'12 -8940 Sep 15 j 00:26 20°る17'50 -10°27'02 min. Earth dist. -8940 Sep 16 j 11:01 20°る16'08 45.47401 AU -8946 Mar 10 j 21:38 13°る46'40 -11°28'24 -8940 Dec 06 j 07:01 19°る16'19 conjunction direct -8946 Mar 10 j 21:49 13°る46'40 11°28'58 -8939 Mar 05 j 18:18 20°る30'44 minimum elong evening set

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 34 Attention, astronomical year style is used: The year -8939 in astronomical counting style is the year 8940 BCE in historical counting style.

Attention, astronomical year style is used: The year -8939 in astronomical counting style is the year 8940 BCE in historical counting style.							
max. Earth dist.	-8939 Mar 16 j 08:01	20°る45'30	47.37128 AU	min. Earth dist.	-8933 Sep 24 j 15:19	27° <b>る</b> 31'45	44.37129 AU
				direct	-8933 Dec 14 j 08:23	26° <b>る</b> 31'23	
conjunction	-8939 Mar 17 j 23:57	20°る47'50	-9°53'27	evening set	-8932 Mar 11 j 16:26	27° <b>る</b> 45'43	
minimum elong	-8939 Mar 18 j 00:09	20° <b>る</b> 47'51	9°54'01	max. Earth dist.	-8932 Mar 23 j 05:51	28° <b>පි</b> 02'11	46.26388 AU
morning rise	-8939 Mar 30 j 05:28	21° <b>る</b> 04'57			-		
retrograde	-8939 Jun 27 j 04:03	22° <b>る</b> 19'28		conjunction	-8932 Mar 25 j 08:51	28° <b>る</b> 05'15	-8°05'08
opposition	-8939 Sep 16 j 06:08	21° <b>る</b> 19'01	-10°11'57	minimum elong	-8932 Mar 25 j 09:03	28° <b>る</b> 05'15	
min. Earth dist.	-8939 Sep 17 j 18:39		45.32928 AU	morning rise	-8932 Apr 08 j 00:48	28° <b>る</b> 24'45	
direct	-8939 Dec 07 j 16:02	20°る17'23		retrograde	-8932 Jul 04 j 09:11	29° <b>る</b> 38'45	
evening set	-8938 Mar 06 j 20:40	21° <b>る</b> 31'46		opposition	-8932 Sep 23 j 02:14	28° <b>る</b> 37'29	-8°18'29
max. Earth dist.	-8938 Mar 17 j 14:47	21°る46'49	47.22648 AU	min. Earth dist.	-8932 Sep 25 j 00:03		44.19648 AU
	,			direct	-8932 Dec 14 j 14:10	27° <b>る</b> 34'45	
conjunction	-8938 Mar 19 j 07:41	21° <b>る</b> 49'14	-9°38'47	evening set	-8931 Mar 12 j 20:37	28° <b>る</b> 49'06	
minimum elong	-8938 Mar 19 j 07:52	21° <b>ට</b> 49'14		max. Earth dist.	-8931 Mar 24 j 14:30		46.08881 AU
morning rise	-8938 Mar 31 j 18:32	22° <b>ට</b> 06'42					
retrograde	-8938 Jun 28 j 10:36	23° <b>ට</b> 21'07		conjunction	-8931 Mar 26 j 17:35	29° <b>る</b> 08'57	-7°48'34
opposition	-8938 Sep 17 j 11:56	22° <b>る</b> 20'36	-9°56'35	minimum elong	-8931 Mar 26 j 17:45	29° <b>る</b> 08'57	
min. Earth dist.	-8938 Sep 19 j 00:49		45.18103 AU	morning rise	-8931 Apr 09 j 13:44	29° <b>る</b> 28'46	
direct	-8938 Dec 08 j 22:39	21° <b>ප</b> 18'51	13.10103110	morning rise	-8931 May 03 j 01:21	0°≈	
evening set	-8937 Mar 07 j 23:17	22° <b>ප</b> 33'12		retrograde	-8931 Jul 05 j 18:11	0°≈42'44	
max. Earth dist.	-8937 Mar 18 j 20:15		47.07763 AU	retrograde	-8931 Sep 08 j 13:51	30°Rる	
max. Earth dist.	0757 Will 10 J 20.15	22 0402)	47.07703710	opposition	-8931 Sep 24 j 08:59	29° <b>පි</b> 41'19	-8°01'07
conjunction	-8937 Mar 20 j 15:30	22° <b>る</b> 51'02	-0°23'51	min. Earth dist.	-8931 Sep 26 j 07:26		44.01848 AU
minimum elong	-8937 Mar 20 j 15:30	22°る51'02		direct	-8931 Dec 15 j 20:13	29 <b>3</b> 3900 28° <b>る</b> 38'22	44.01646 AU
morning rise	-8937 Apr 02 j 07:39	22 පිරි 1 02 23°පි 08'51	9 24 24	evening set	-8930 Mar 14 j 01:17	28 ට38 22 29° <b>ට</b> 52'47	
-	-8937 Apr 02 j 07:39 -8937 Jun 29 j 20:17	23 <b>3</b> 0831 24° <b>3</b> 23'12		evening set	-8930 Mar 19 j 02:49	29 <b>3</b> 247 0° <b>≈</b>	
retrograde	·	24 823 12 23° <b>る</b> 22'35	0940156	max. Earth dist.	,		45.91084 AU
opposition min. Earth dist.	-8937 Sep 18 j 17:59 -8937 Sep 20 j 09:05		-9 40 36 45.02858 AU	max. Earth dist.	-8930 Mar 25 j 21:07	0 ≈0943	43.91084 AU
		23 82040 22° <b>る</b> 20'44	43.02838 AU	aamiumatiam	9020 Mar 29 : 02:21	0%0012157	7921142
direct	-8937 Dec 10 j 01:32			conjunction	-8930 Mar 28 j 02:21	0°≈12'57	
evening set	-8936 Mar 08 j 02:09	23° <b>る</b> 35'03	46 02421 ATT	minimum elong	-8930 Mar 28 j 02:32	0°≈12'58	/ 32 14
max. Earth dist.	-8936 Mar 19 j 03:47	23 030 38	46.92431 AU	morning rise	-8930 Apr 11 j 02:51	0°≈33'06	
	0026M 20:22.27	220752114	0000120	retrograde	-8930 Jul 07 j 04:21	1°≈47'03	7042126
conjunction	-8936 Mar 20 j 23:37	23°る53'14		opposition	-8930 Sep 25 j 15:59	0°≈45'29	
minimum elong	-8936 Mar 20 j 23:48	23°る53'14	9°09'10	min. Earth dist.	-8930 Sep 27 j 15:17		43.83790 AU
morning rise	-8936 Apr 02 j 20:38	24°る11'24			-8930 Nov 06 j 19:01	30°Rる	
retrograde	-8936 Jun 30 j 04:16	25°る25'40	000 510 1	direct	-8930 Dec 17 j 01:52	29° <b>ප්</b> 42'21	
opposition	-8936 Sep 19 j 00:12	24° <b>る</b> 24'58			-8929 Jan 26 j 08:23	0° <b>≈</b>	
min. Earth dist.	-8936 Sep 20 j 16:20		44.87135 AU	evening set	-8929 Mar 15 j 06:03	0°≈56'51	
direct	-8936 Dec 10 j 08:15			max. Earth dist.	-8929 Mar 27 j 05:36	1°≈14'05	45.73025 AU
evening set	-8935 Mar 09 j 05:18	24° <b>る</b> 37'16					
max. Earth dist.	-8935 Mar 20 j 09:12	24° <b>6</b> 53'03	46.76620 AU	conjunction	-8929 Mar 29 j 11:22	1°≈17′20	
		<b></b>		minimum elong	-8929 Mar 29 j 11:32	1°≈17'21	7°15'04
conjunction	-8935 Mar 22 j 07:36	24° <b>ろ</b> 55'47		morning rise	-8929 Apr 12 j 15:43	1° <b>≈</b> 37'48	
minimum elong	-8935 Mar 22 j 07:47	24° <b>ろ</b> 55'48	8°53'42	retrograde	-8929 Jul 08 j 10:43	2°≈51'46	
morning rise	-8935 Apr 04 j 09:44	25° <b>る</b> 14'19		opposition	-8929 Sep 26 j 23:16	1° <b>≈</b> 50'03	
retrograde	-8935 Jul 01 j 13:04	26° <b>る</b> 28'29		min. Earth dist.	-8929 Sep 29 j 00:00		43.65484 AU
opposition	-8935 Sep 20 j 06:29	25° <b>る</b> 27'40		direct	-8929 Dec 18 j 11:42	0° <b>≈</b> 46'44	
min. Earth dist.	-8935 Sep 21 j 23:50		44.70930 AU	evening set	-8928 Mar 15 j 11:15	2° <b>≈</b> 01'21	
direct	-8935 Dec 11 j 14:53	24° <b>る</b> 25'29		max. Earth dist.	-8928 Mar 27 j 13:49	2°≈18'50	45.54748 AU
evening set	-8934 Mar 10 j 08:45	25° <b>る</b> 39'49					
max. Earth dist.	-8934 Mar 21 j 16:26	25°₹55'51	46.60310 AU	conjunction	-8928 Mar 29 j 20:27	2° <b>≈</b> 22'09	
				minimum elong	-8928 Mar 29 j 20:38	2° <b>≈</b> 22'10	6°57'38
conjunction	-8934 Mar 23 j 16:02	25° <b>る</b> 58'40		morning rise	-8928 Apr 13 j 04:46	2° <b>≈</b> 42'55	
minimum elong	-8934 Mar 23 j 16:14	25° <b>る</b> 58'41	8°37'57	retrograde	-8928 Jul 08 j 17:52	3°≈56'56	
morning rise	-8934 Apr 05 j 22:48	26° <b>る</b> 17'31		opposition	-8928 Sep 27 j 06:34	2° <b>≈</b> 55'06	-7°07'07
retrograde	-8934 Jul 02 j 19:09	27° <b>る</b> 31'37		min. Earth dist.	-8928 Sep 29 j 07:19		43.46957 AU
opposition	-8934 Sep 21 j 12:57	26° <b>る</b> 30'40	-8°52'20	direct	-8928 Dec 18 j 20:46	1° <b>≈</b> 51'36	
min. Earth dist.	-8934 Sep 23 j 08:29		44.54240 AU	evening set	-8927 Mar 16 j 16:40	3° <b>≈</b> 06′21	
direct	-8934 Dec 12 j 23:45	25° <b>る</b> 28'19		max. Earth dist.	-8927 Mar 28 j 21:19	3° <b>≈</b> 24'02	45.36220 AU
evening set	-8933 Mar 11 j 12:35	26° <b>る</b> 42'38					
max. Earth dist.	-8933 Mar 22 j 23:34	26° <b>る</b> 58'54	46.43556 AU	conjunction	-8927 Mar 31 j 05:43	3° <b>≈</b> 27′28	-6°39'22
				minimum elong	-8927 Mar 31 j 05:53	3° <b>≈</b> 27′29	6°39'52
conjunction	-8933 Mar 25 j 00:30	27° <b>る</b> 01'50	-8°21'25	morning rise	-8927 Apr 14 j 17:49	3° <b>≈</b> 48′33	
minimum elong	-8933 Mar 25 j 00:41	27° <b>る</b> 01'50	8°21'58	retrograde	-8927 Jul 10 j 03:29	5° <b>≈</b> 02'40	
morning rise	-8933 Apr 07 j 11:55	27° <b>る</b> 21'00		opposition	-8927 Sep 28 j 14:11	4° <b>≈</b> 00'42	-6°48'30
retrograde	-8933 Jul 04 j 00:41	28° <b>る</b> 35'02		min. Earth dist.	-8927 Sep 30 j 16:57	3° <b>≈</b> 58′07	43.28167 AU
opposition	-8933 Sep 22 j 19:29	27° <b>る</b> 33'56	-8°35'34	direct	-8927 Dec 20 j 02:42	2° <b>≈</b> 57'01	

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, page 35 Attention, astronomical year style is used: The year -8926 in astronomical counting style is the year 8927 BCE in historical counting style.

Attention, astronomical year style is used: The year -8926 in astronomical counting style is the year 8927 BCE in historical counting style.							
evening set	-8926 Mar 17 j 22:35	4° <b>≈</b> 11'57		opposition	-8920 Oct 06 j 01:24	11° <b>≈</b> 56′25	
max. Earth dist.	-8926 Mar 30 j 06:45	4° <b>≈</b> 29'54	45.17402 AU	min. Earth dist.	-8920 Oct 08 j 12:43		41.85637 AU
				direct	-8920 Dec 27 j 11:59	10° <b>≈</b> 51'12	
conjunction	-8926 Apr 01 j 15:24	4° <b>≈</b> 33'22		evening set	-8919 Mar 25 j 02:55	12° <b>≈</b> 07'46	
minimum elong	-8926 Apr 01 j 15:34	4° <b>≈</b> 33'23	6°21'50	max. Earth dist.	-8919 Apr 06 j 22:08	12° <b>≈</b> 27′00	43.74243 AU
morning rise	-8926 Apr 16 j 06:57	4°≈54'45					
retrograde	-8926 Jul 11 j 12:51	6° <b>≈</b> 08'59		conjunction	-8919 Apr 09 j 16:47	12° <b>≈</b> 31'13	
opposition	-8926 Sep 29 j 21:53	5°≈06'53		minimum elong	-8919 Apr 09 j 16:54	12° <b>≈</b> 31'13	4°07'19
min. Earth dist.	-8926 Oct 02 j 01:15		43.09050 AU	morning rise	-8919 Apr 25 j 04:38	12° <b>≈</b> 54'34	
direct	-8926 Dec 21 j 10:27	4°≈03'02		retrograde	-8919 Jul 19 j 13:39	14°≈09'58	
evening set	-8925 Mar 19 j 05:03	5°≈18'10		opposition	-8919 Oct 07 j 10:50	13°≈06'34	
max. Earth dist.	-8925 Mar 31 j 14:09	5° <b>≈</b> 36'16	44.98227 AU	min. Earth dist.	-8919 Oct 09 j 23:17		41.63803 AU
				direct	-8919 Dec 28 j 22:47	12° <b>≈</b> 01'04	
conjunction	-8925 Apr 03 j 01:12	5° <b>≈</b> 39'53		evening set	-8918 Mar 26 j 12:03	13° <b>≈</b> 17'57	
minimum elong	-8925 Apr 03 j 01:21	5° <b>≈</b> 39'54	6°03'28	max. Earth dist.	-8918 Apr 08 j 08:06	13° <b>≈</b> 37′20	43.52390 AU
morning rise	-8925 Apr 17 j 20:18	6° <b>≈</b> 01'35					
retrograde	-8925 Jul 13 j 01:19	7° <b>≈</b> 15'56		conjunction	-8918 Apr 11 j 04:04	13° <b>≈</b> 41'39	
opposition	-8925 Oct 01 j 05:57	6° <b>≈</b> 13'42		minimum elong	-8918 Apr 11 j 04:10	13° <b>≈</b> 41'40	3°46'55
min. Earth dist.	-8925 Oct 03 j 10:42	6° <b>≈</b> 11'01	42.89560 AU	morning rise	-8918 Apr 26 j 18:13	14° <b>≈</b> 05′16	
direct	-8925 Dec 22 j 16:27	5° <b>≈</b> 09'40			-8918 Jun 08 j 21:15	15° <b>≈</b>	
evening set	-8924 Mar 19 j 11:34	6° <b>≈</b> 25'00		retrograde	-8918 Jul 21 j 00:30	15° <b>≈</b> 20'54	
max. Earth dist.	-8924 Mar 31 j 23:26	6° <b>≈</b> 43'21	44.78629 AU		-8918 Sep 01 j 11:33	15°R <b>≈</b>	
				opposition	-8918 Oct 08 j 20:20	14° <b>≈</b> 17'16	-3°46'45
conjunction	-8924 Apr 03 j 11:13	6° <b>≈</b> 47'02	-5°44'22	min. Earth dist.	-8918 Oct 11 j 08:56	14° <b>≈</b> 14′06	41.41766 AU
minimum elong	-8924 Apr 03 j 11:22	6° <b>≈</b> 47'03	5°44'52	direct	-8918 Dec 30 j 10:31	13° <b>≈</b> 11'30	
morning rise	-8924 Apr 18 j 09:24	7° <b>≈</b> 09'01		evening set	-8917 Mar 27 j 21:31	14° <b>≈</b> 28'44	
retrograde	-8924 Jul 13 j 11:04	8° <b>≈</b> 23'31		max. Earth dist.	-8917 Apr 09 j 18:37	14° <b>≈</b> 48′17	43.30332 AU
opposition	-8924 Oct 01 j 14:20	7° <b>≈</b> 21'07	-5°50'44				
min. Earth dist.	-8924 Oct 03 j 20:57	7° <b>≈</b> 18'20	42.69625 AU	conjunction	-8917 Apr 12 j 15:41	14° <b>≈</b> 52'42	-3°25'46
direct	-8924 Dec 23 j 02:09	6° <b>≈</b> 16'54		minimum elong	-8917 Apr 12 j 15:47	14° <b>≈</b> 52'42	3°26'13
evening set	-8923 Mar 20 j 18:46	7° <b>≈</b> 32'27			-8917 Apr 17 j 10:00	15° <b>≈</b>	
max. Earth dist.	-8923 Apr 02 j 07:58	7° <b>≈</b> 50'58	44.58589 AU	morning rise	-8917 Apr 28 j 07:43	15° <b>≈</b> 16'34	
				retrograde	-8917 Jul 22 j 10:27	16° <b>≈</b> 32'27	
conjunction	-8923 Apr 04 j 21:30	7° <b>≈</b> 54'47	-5°25'27	opposition	-8917 Oct 10 j 06:23	15° <b>≈</b> 28'37	-3°24'58
minimum elong	-8923 Apr 04 j 21:39	7° <b>≈</b> 54'48	5°25'56	min. Earth dist.	-8917 Oct 12 j 20:40	15° <b>≈</b> 25′20	41.19559 AU
morning rise	-8923 Apr 19 j 22:52	8° <b>≈</b> 17'03			-8917 Nov 02 j 17:23	15° <b>R</b> ≈	
retrograde	-8923 Jul 14 j 19:36	9° <b>≈</b> 31'41		direct	-8917 Dec 31 j 21:31	14° <b>≈</b> 22'34	
opposition	-8923 Oct 02 j 22:39	8° <b>≈</b> 29'08	-5°30'52		-8916 Feb 28 j 00:13	15° <b>≈</b>	
min. Earth dist.	-8923 Oct 05 j 05:47	8° <b>≈</b> 26'19	42.49241 AU	evening set	-8916 Mar 28 j 07:16	15° <b>≈</b> 40′10	
direct	-8923 Dec 24 j 12:14	7° <b>≈</b> 24'41		max. Earth dist.	-8916 Apr 10 j 06:19	15° <b>≈</b> 59'56	43.08129 AU
evening set	-8922 Mar 22 j 02:21	8° <b>≈</b> 40′29					
max. Earth dist.	-8922 Apr 03 j 16:27	8° <b>≈</b> 59'07	44.38082 AU	conjunction	-8916 Apr 13 j 03:22	16° <b>≈</b> 04'23	-3°04'46
				minimum elong	-8916 Apr 13 j 03:27	16° <b>≈</b> 04'23	3°05'12
conjunction	-8922 Apr 06 j 08:07	9° <b>≈</b> 03'06	-5°06'15	morning rise	-8916 Apr 28 j 21:13	16° <b>≈</b> 28'30	
minimum elong	-8922 Apr 06 j 08:15	9° <b>≈</b> 03'06	5°06'44	retrograde	-8916 Jul 22 j 20:13	17° <b>≈</b> 44'42	
morning rise	-8922 Apr 21 j 12:22	9° <b>≈</b> 25'39		opposition	-8916 Oct 10 j 16:33	16° <b>≈</b> 40′38	-3°02'50
retrograde	-8922 Jul 16 j 04:06	10° <b>≈</b> 40'27		min. Earth dist.	-8916 Oct 13 j 06:35	16° <b>≈</b> 37'21	40.97203 AU
opposition	-8922 Oct 04 j 07:28	9° <b>≈</b> 37'43	-5°10'41	direct	-8915 Jan 01 j 08:29	15° <b>≈</b> 34'20	
min. Earth dist.	-8922 Oct 06 j 16:54	9° <b>≈</b> 34'45	42.28413 AU	evening set	-8915 Mar 29 j 17:46	16° <b>≈</b> 52'19	
direct	-8922 Dec 25 j 21:36	8° <b>≈</b> 33'01		max. Earth dist.	-8915 Apr 11 j 16:29	17°≈12'12	42.85763 AU
evening set	-8921 Mar 23 j 10:11	9° <b>≈</b> 49'02			1 3		
max. Earth dist.	-8921 Apr 05 j 02:50	10° <b>≈</b> 07'56	44.17154 AU	conjunction	-8915 Apr 14 j 15:27	17° <b>≈</b> 16'47	-2°43'28
	1 3			minimum elong	-8915 Apr 14 j 15:32	17° <b>≈</b> 16'48	
conjunction	-8921 Apr 07 j 18:51	10° <b>≈</b> 11'57	-4°46'45	morning rise	-8915 Apr 30 j 11:00	17° <b>≈</b> 41'09	
minimum elong	-8921 Apr 07 j 18:59	10° <b>≈</b> 11'57		retrograde	-8915 Jul 24 j 09:52	18° <b>≈</b> 57'42	
morning rise	-8921 Apr 23 j 01:45	10° <b>≈</b> 34'46	, 15	opposition	-8915 Oct 12 j 02:54	17°≈53'25	-2°40'23
retrograde	-8921 Jul 17 j 14:21	11°≈49'45		min. Earth dist.	-8915 Oct 14 j 18:25		40.74691 AU
opposition	-8921 Oct 05 j 16:21	10°≈46'48	-4°50'11	direct	-8914 Jan 02 j 16:00	16°≈46'52	0, 1110
min. Earth dist.	-8921 Oct 08 j 02:15		42.07185 AU	evening set	-8914 Mar 31 j 04:44	18°≈05'17	
direct	-8921 Dec 27 j 05:51	9° <b>≈</b> 41'51	.2.0,105 110	max. Earth dist.	-8914 Apr 13 j 05:12		42.63204 AU
evening set	-8921 Dec 27 j 03.31 -8920 Mar 23 j 18:29	9 ≈41 31 10°≈58'08		max. Lartii Uist.	0717 Apr 13 J 03.12	10 ~23 23	12.03207 AU
max. Earth dist.	-8920 Mai 23 j 18.29 -8920 Apr 05 j 11:16		43.95853 AU	conjunction	-8914 Apr 16 j 04:05	18° <b>≈</b> 30'00	-2°21'51
max. Earth dist.	0720 Apr 03 J 11.10	11 ~1/00	чэ./эвээ <b>A</b> U	minimum elong	-8914 Apr 16 j 04:09	18°≈30'00	
conjunction	-8920 Apr 08 j 05:41	11° <b>≈</b> 21'19	-4°26'57	morning rise	-8914 Apr 10 j 04:09	18°≈54'35	2 22 1 /
minimum elong	-8920 Apr 08 j 05:48	11 ≈21 19 11°≈21'19		retrograde	-8914 Jul 25 j 23:16	18 ≈3433 20°≈11'31	
morning rise	-8920 Apr 08 j 03.48 -8920 Apr 23 j 15:17	11 ≈21 19 11°≈44'25	-T 2/2U	opposition	-8914 Jul 23 j 23.16 -8914 Oct 13 j 13:47	20 ≈1131 19°≈07'01	-2017'36
retrograde	-8920 Apr 23 j 15:17 -8920 Jul 18 j 02:59	11°≈44°25 12°≈59'35		min. Earth dist.	-8914 Oct 16 j 06:15		40.51956 AU
1011051auc	5720 Jul 10 J 02.39	12 ~3933		mm. Lattii dist.	0717 Oct 10 J 00.13	17 ~03 33	10.51750 AU

Planetary Phenomena of Pluto from -9400 through -8898 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -8913 in astronomical counting style is the year 8914 BCE in historical counting style. -8913 Jan 04 i 01:42 18°**≈**00'12 conjunction -8907 Apr 25 i 04:55 27°≈26′06 0°17'40 direct -8913 Apr 01 j 16:20 19°≈19'06 -8907 Apr 25 j 04:54 27°≈26'06 minimum elong 0°17'18 evening set 19°**≈**39'17 42.40399 AU max. Earth dist. -8913 Apr 14 j 16:08 -8907 May 11 j 04:54 27°≈52'02 morning rise -8907 Aug 04 j 00:57 29°≈12'18 retrograde -8907 Oct 22 j 03:17 19°≈44'03 -1°59'57 conjunction -8913 Apr 17 j 16:45 opposition 28°**≈**05'55 0°30'51 -8913 Apr 17 j 16:49 -8907 Oct 25 j 03:18 minimum elong 19°≈44'03 2°00'22 min. Earth dist. 28°≈01'58 38.84404 AU -8913 May 03 j 14:49 -8906 Jan 12 j 14:49 morning rise 20°≈08'51 direct 26°≈56'52 -8913 Jul 27 j 13:46 28°≈19'51 retrograde 21°≈26'11 evening set -8906 Apr 10 j 17:26 20°≈21′28 -1°54′29 opposition -8913 Oct 15 j 00:53 max. Earth dist. -8906 Apr 23 j 12:20 28°≈40'39 40.72013 AU min. Earth dist. -8913 Oct 17 j 17:57 20°≈18′00 40.28961 AU direct -8912 Jan 05 j 11:47 19°≈14'22 conjunction -8906 Apr 26 j 20:06 28°≈46'07 0°41'35 -8906 Apr 26 j 20:04 evening set -8912 Apr 02 j 04:26 20°≈33'47 minimum elong 28°≈46'07 0°41'14 -8906 May 12 j 19:39 max. Earth dist. -8912 Apr 15 j 04:11 20°≈54'06 42.17279 AU morning rise 29°≈12'12 -8906 Jun 15 j 02:00 0°**)**€ conjunction -8912 Apr 18 j 05:59 20°≈58'57 -1°37'45 retrograde -8906 Aug 05 j 15:08 0°**)** 33'04 minimum elong -8912 Apr 18 j 06:02 20°≈58'57 1°38'09 -8906 Sep 27 j 02:43 30°R≈ morning rise -8912 May 04 j 04:51 21°≈23'58 opposition -8906 Oct 23 j 16:57 29°≈26'23 0°56'09 retrograde -8912 Jul 28 j 01:32 22°≈41'44 min. Earth dist. -8906 Oct 26 j 16:38 29°≈22'26 38.59586 AU opposition -8912 Oct 15 j 12:28 21°≈36'46 -1°31'03 direct -8905 Jan 14 j 06:05 28°≈16'59 min. Earth dist. -8912 Oct 18 j 07:30 21°≈33'11 40.05641 AU evening set -8905 Apr 12 j 09:39 29°≈40'41 direct -8911 Jan 06 j 01:16 20°≈29'24 -8905 Apr 24 j 04:50 0°**)**€ evening set -8911 Apr 03 i 17:06 21°≈49'20 max. Earth dist. -8905 Apr 25 j 02:35 0°¥01'30 40.47128 AU max. Earth dist. -8911 Apr 16 j 16:57 22°≈09'46 41.93827 AU conjunction -8905 Apr 28 j 11:33 0°**)**€07'06 1°05'46 -8911 Apr 19 i 19:29 22°≈14'43 -1°15'15 -8905 Apr 28 j 11:31 0°**)**€07'06 1°05'25 conjunction minimum elong -8911 Apr 19 j 19:31 22°≈14'43 1°15'39 -8905 May 14 j 10:12 0° #33'19 minimum elong morning rise -8911 May 05 j 19:09 22°≈39'56 -8905 Aug 07 j 05:18 1°**¥**54'51 morning rise retrograde -8911 Jul 29 j 13:22 -8905 Oct 25 j 07:10 0°¥47'52 1°21'45 retrograde 23°≈58'08 opposition -8911 Oct 17 j 00:18 -8905 Oct 28 j 08:13 0°**)** 43'48 38.34715 AU 22°≈52'56 -1°07'18 min. Earth dist. opposition -8911 Oct 19 j 19:34 -8905 Dec 03 j 21:31 30°R≈ min. Earth dist. 22°≈49'18 39.81972 AU -8910 Jan 07 j 14:53 direct -8904 Jan 15 j 20:07 29°≈38'07 21°≈45'14 direct -8904 Feb 27 j 04:40 0°**)**€ -8910 Apr 05 j 06:31 23°≈05'43 evening set -8910 Apr 18 j 04:34 23°≈26'11 41.70007 AU evening set -8904 Apr 13 j 02:34 1°**)** 02'35 max. Earth dist. 1°**∺**23'32 40.22212 AU -8904 Apr 25 j 19:09 max. Earth dist. -8910 Apr 21 j 09:23 conjunction 23°≈31'18 -0°52'27 -8910 Apr 21 j 09:25 -8904 Apr 29 j 03:30 1°**H**29'08 1°30'13 minimum elong 23°**≈**31'18 0°52'50 conjunction -8910 May 07 j 09:32 23°≈56'44 -8904 Apr 29 j 03:27 1°¥29'08 1°29'53 morning rise minimum elong retrograde -8910 Jul 31 j 03:17 25°≈15'24 morning rise -8904 May 15 j 01:00 1° # 55'29 -8910 Oct 18 j 12:31 24°≈09'55 -0°43'14 retrograde -8904 Aug 07 j 20:05 3°**)** 17'42 opposition min. Earth dist. -8910 Oct 21 j 09:48 24°≈06'10 39.57966 AU -8904 Oct 25 j 21:41 2°\dagger10'26 1°47'38 opposition -8909 Jan 09 j 01:19 23°≈01'54 min. Earth dist. -8904 Oct 28 j 22:25 2°₩06'22 38.09825 AU direct -8909 Apr 06 j 20:21 24°≈22'57 -8903 Jan 16 j 09:47 1°\(\mathbf{H}\) 00'21 evening set direct -8909 Apr 19 j 18:46 24°≈43'33 41.45863 AU -8903 Apr 14 j 20:20 2°\ 25'38 max. Earth dist. evening set -8903 Apr 27 j 09:52 2°¥46'33 39.97272 AU max. Earth dist. -8909 Apr 22 j 23:41 24°≈48'43 -0°29'23 conjunction -8909 Apr 22 i 23:42 -8903 Apr 30 j 19:48 minimum elong 24°≈48'43 0°29'46 conjunction 2°\f52'18 1°54'54 -8909 May 08 j 23:57 morning rise 25°≈14'20 minimum elong -8903 Apr 30 j 19:44 2°**)** 52'18 1°54'35 -8903 May 16 j 16:02 retrograde -8909 Aug 01 i 16:47 26°≈33'30 morning rise 3°**¥**18'46 opposition -8909 Oct 20 j 01:10 25°≈27'44 -0°18'51 retrograde -8903 Aug 09 j 14:22 4° **\(**41'45 min. Earth dist. -8909 Oct 22 i 22:57 25°≈23'56 39.33658 AU opposition -8903 Oct 27 i 12:40 3°**¥**34'11 2°13'48 direct -8908 Jan 10 i 14:04 24°≈19'23 min. Earth dist. -8903 Oct 30 j 14:19 3°¥30'03 37.84920 AU -8908 Apr 07 j 10:43 25°≈41'02 -8902 Jan 17 j 21:42 2°\ 23'46 evening set direct -8902 Apr 16 j 14:48 -8908 Apr 20 j 07:11 26°≈01'39 41.21444 AU 3°¥49'57 max. Earth dist. evening set max. Earth dist. -8902 Apr 29 j 03:06 4°**升**10′56 39.72276 AU conjunction -8908 Apr 23 j 13:59 26°≈06'59 -0°06'04 minimum elong -8908 Apr 23 j 13:59 26°≈06'59 0°06'25 conjunction -8902 May 02 j 12:45 4°\;\;\;\\\16'42 2°19'51 -8908 Apr 23 j 07:51 26°≈06'35 -8902 May 02 j 12:40 4°¥16'42 2°19'33 behind sun begin minimum elong -8908 Apr 23 j 20:06 -8902 May 18 j 07:04 4°**)**43'15 behind sun end 26°≈07'22 morning rise -8908 May 09 j 14:24 -8902 Aug 11 j 08:29 6°**₩**07'03 morning rise 26°≈32'46 retrograde -8908 Jul 26 j 07:16 -8902 Oct 29 j 04:14 4° **\**59'12 2°40'13 asc. node 27°≈51'49 opposition 4°**₭**55'00 37.59943 AU retrograde -8908 Aug 02 j 09:44 27°≈52'28 min. Earth dist. -8902 Nov 01 j 06:40 -8908 Oct 20 j 14:02 26°≈46′23 0°05'51 direct -8901 Jan 19 j 12:35 3°**)** 48′27 opposition min. Earth dist. evening set -8908 Oct 23 j 12:36 26°**≈**42'32 39.09123 AU -8901 Apr 18 j 10:16 5°**)** 15'34 direct -8907 Jan 11 j 01:15 25°≈37'41 max. Earth dist. -8901 Apr 30 j 19:20 5°**¥**36'30 39.47194 AU evening set -8907 Apr 09 j 01:41 26°≈59'59 max. Earth dist. -8907 Apr 21 j 21:47 27°≈20'43 40.96798 AU -8901 May 04 j 06:03 5°\ 42'24 2°45'02 conjunction

-8901 May 04 j 05:58

minimum elong

5°\ 42'24 2°44'44

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Attention, astronomical year style is used: The year -8901 in astronomical counting style is the year 8902 BCE in historical counting style.

morning rise	-8901 May 19 j 22:29	6° <b>₩</b> 09'02	
retrograde	-8901 Aug 13 j 05:10	7° <b>∺</b> 33'40	
opposition	-8901 Oct 30 j 20:16	6° <b>∺</b> 25'32	3°06'55
min. Earth dist.	-8901 Nov 02 j 22:45	6° <b>∺</b> 21'19	37.34871 AU
direct	-8900 Jan 21 j 04:10	5° <b>)</b> 14′27	
evening set	-8900 Apr 19 j 06:18	6° <b>)</b> 42′33	
max. Earth dist.	-8900 May 01 j 12:19	7° <b>∺</b> 03′26	39.21952 AU
conjunction	-8900 May 04 j 23:52	7° <b>∺</b> 09'26	3°10'26
minimum elong	-8900 May 04 j 23:45	7° <b>∺</b> 09'25	3°10'09
morning rise	-8900 May 20 j 13:48	7° <b>∺</b> 36′07	
retrograde	-8900 Aug 13 j 23:15	9° <b>∺</b> 01'39	
opposition	-8900 Oct 31 j 12:58	7° <b>¥</b> 53'12	3°33'52
min. Earth dist.	-8900 Nov 03 j 17:16	7° <b>¥</b> 48'51	37.09628 AU
direct	-8899 Jan 21 j 20:39	6° <b>)</b> 41'45	
evening set	-8899 Apr 21 j 03:28	8° <b>¥</b> 10′52	
max. Earth dist.	-8899 May 03 j 06:31	8° <b>)</b> 31′43	38.96526 AU
conjunction	-8899 May 06 j 18:19	8° <b>)</b> 37'47	3°36'03
minimum elong	-8899 May 06 j 18:11	8° <b>¥</b> 37'47	3°35'47
morning rise	-8899 May 22 j 05:33	9° <b>)</b> 04′30	
retrograde	-8899 Aug 15 j 16:05	10° <b>¥</b> 30′57	
opposition	-8899 Nov 02 j 06:00	9° <b>∺</b> 22'11	4°01'03
min. Earth dist.	-8899 Nov 05 j 10:12	9° <b>∺</b> 17'49	36.84193 AU