Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9900 in astronomical counting style is the year 9901 BCE in historical counting style. -9900 Mar 25 i 16:15 6°≈36'33 evening set -9894 Apr 03 i 02:28 14°≈19'32 evening set -9900 Apr 07 j 13:47 -9894 Apr 15 j 20:46 14°≈40'12 40.90775 AU max. Earth dist. 6°≈56'38 42.34116 AU max. Earth dist. -9894 Apr 19 j 05:06 conjunction -9900 Apr 10 j 16:24 7°≈01'31 -1°56'23 14°≈45'41 0°21'19 conjunction -9900 Apr 10 j 16:28 -9894 Apr 19 j 05:05 minimum elong 7°≈01'32 1°56'54 minimum elong 14°≈45'41 0°20'51 -9894 Apr 27 j 22:47 15°**≈** morning rise -9900 Apr 26 j 14:01 7°≈26'21 -9900 Jul 20 j 09:12 -9894 May 05 j 04:17 15°≈11'40 retrograde 8°≈43'42 morning rise -9894 Jul 28 j 21:20 opposition -9900 Oct 07 j 19:17 7°≈38'57 -1°50'46 retrograde 16°≈32'06 0°34'41 min. Earth dist. -9900 Oct 10 j 13:57 7°≈35'23 40.22612 AU opposition -9894 Oct 15 j 23:01 15°≈25'48 direct -9900 Dec 29 j 10:10 6°≈31'42 min. Earth dist. -9894 Oct 19 j 00:26 15°≈21'46 38.78320 AU evening set -9899 Mar 27 j 04:15 7°≈51'20 -9894 Nov 05 j 00:21 15°R≈ max. Earth dist. -9899 Apr 09 j 02:39 8°≈11'35 42.10895 AU direct -9893 Jan 06 j 12:59 14°≈16'43 -9893 Mar 08 j 16:01 15°≈ conjunction -9899 Apr 12 j 05:34 8°≈16'32 -1°34'10 evening set -9893 Apr 04 j 18:27 15°≈40'04 minimum elong -9899 Apr 12 j 05:37 8°≈16'32 1°34'39 max. Earth dist. -9893 Apr 17 j 10:45 16°≈00'46 40.65810 AU morning rise -9899 Apr 28 j 03:57 8°≈41'35 retrograde -9899 Jul 21 j 22:02 9°≈59'21 conjunction -9893 Apr 20 j 20:24 16°**≈**06'23 0°45'16 opposition -9899 Oct 09 j 06:59 8°≈54'22 -1°27'19 minimum elong -9893 Apr 20 j 20:22 16°≈06′23 0°44'49 min. Earth dist. -9899 Oct 12 j 03:11 8°≈50'43 39.99257 AU morning rise -9893 May 06 j 19:07 16°≈32'30 direct -9899 Dec 30 j 22:16 7°≈46'52 retrograde -9893 Jul 30 j 13:52 17°≈53'32 evening set -9898 Mar 28 j 17:04 9°≈07'02 opposition -9893 Oct 17 j 12:56 16°**≈**46'56 1°00'02 max. Earth dist. -9898 Apr 10 j 15:19 9°≈27'25 41.87477 AU min. Earth dist. -9893 Oct 20 j 14:29 16°≈42'53 38.53246 AU -9892 Jan 08 i 03:58 15°≈37'30 direct -9898 Apr 13 j 19:04 9°≈32'27 -1°11'40 -9892 Apr 05 j 11:01 17°≈01'34 conjunction evening set -9898 Apr 13 j 19:06 9°**≈**32'27 1°12'09 max. Earth dist. -9892 Apr 18 j 01:29 17°≈22'17 40.40599 AU minimum elong -9898 Apr 29 j 18:12 9°≈57'42. morning rise -9898 Jul 23 j 09:49 -9892 Apr 21 j 12:13 11°≈15'57 17°≈28'01 1°09'29 retrograde conjunction -9898 Oct 10 j 18:51 -9892 Apr 21 j 12:11 10°≈10'44 -1°03'34 17°≈28'01 1°09'01 opposition minimum elong -9892 May 07 j 09:58 -9898 Oct 13 j 15:09 10°≈07'04 39.75683 AU 17°≈54'17 min. Earth dist. morning rise -9892 Jul 31 j 03:48 -9897 Jan 01 j 11:51 9°≈02'57 19°≈15'58 direct retrograde -9892 Oct 18 j 03:20 -9897 Mar 30 j 06:31 10°≈23'42 18°≈09'03 1°25'40 evening set opposition -9897 Apr 12 j 03:26 10°≈44'07 41.63786 AU -9892 Oct 21 j 06:40 18°≈04'52 38.27982 AU max. Earth dist. min. Earth dist. 16°**≈**59'14 -9891 Jan 08 j 18:33 direct -9897 Apr 15 j 09:00 conjunction 10°≈49'19 -0°48'51 evening set -9891 Apr 07 j 04:10 18°≈24'04 -9891 Apr 19 j 17:42 -9897 Apr 15 j 09:02 minimum elong 10°**≈**49′19 0°49'19 max. Earth dist. 18°≈44'52 40.15232 AU -9897 May 01 j 08:31 morning rise 11°≈14'46 -9891 Apr 23 j 04:19 retrograde -9897 Jul 24 j 23:20 12°**≈**33'31 conjunction 18°≈50'38 1°33'57 -9897 Oct 12 j 07:24 11°≈28'04 -0°39'28 minimum elong -9891 Apr 23 j 04:16 18°**≈**50'38 opposition 1°33'32 -9897 Oct 15 j 05:39 11°≈24'16 39.51830 AU -9891 May 09 j 00:57 19°≈17'01 min. Earth dist. morning rise -9896 Jan 02 j 23:05 10°≈19'59 -9891 Aug 01 j 18:07 20°≈39'24 direct retrograde -9896 Mar 30 j 20:22 11°≈41'20 -9891 Oct 19 j 18:06 19°≈32'09 1°51'35 evening set opposition -9896 Apr 12 j 17:35 12°≈01'55 41.39790 AU -9891 Oct 22 j 21:08 19°≈27'57 38.02591 AU max. Earth dist. min. Earth dist. -9890 Jan 10 j 09:55 18°≈21'57 direct -9896 Apr 15 j 23:12 12°≈07'09 -0°25'46 conjunction evening set -9890 Apr 08 j 22:11 19°≈47'36 -9896 Apr 15 j 23:13 12°**≈**07′09 20°≈08'21 39.89754 AU minimum elong 0°26'15 max. Earth dist. -9890 Apr 21 j 08:32 -9896 May 01 j 22:50 morning rise 12°≈32'47 -9896 Jul 25 i 13:14 retrograde 13°≈52'05 conjunction -9890 Apr 24 i 20:49 20°≈14'17 1°58'42 -9896 Oct 12 i 20:14 12°≈46'22 -0°15'04 minimum elong -9890 Apr 24 i 20:45 20°≈14'17 1°58'17 opposition min. Earth dist. -9896 Oct 15 i 18:53 12°≈42'31 39.27649 AU morning rise -9890 May 10 j 16:01 20°≈40'46 -9895 Jan 03 j 11:00 11°≈37'58 -9890 Aug 03 i 12:10 22°≈03'53 direct retrograde -9895 Apr 01 j 11:09 12°≈59'57 opposition -9890 Oct 21 j 09:21 evening set 20°≈56'18 2°17'48 -9895 Apr 14 j 05:57 13°≈20'31 41.15452 AU -9890 Oct 24 j 13:30 max. Earth dist. min. Earth dist. 20°≈52'02 37 77150 AU -9889 Jan 11 j 21:32 19°≈45'43 direct -9895 Apr 17 j 13:51 13°≈25'56 -0°02'26 evening set -9889 Apr 10 j 16:48 21°≈12'14 conjunction 13°**≈**25'56 -9895 Apr 17 j 13:51 0°02'54 max. Earth dist. -9889 Apr 23 j 02:16 21°≈33'05 39.64239 AU minimum elong -9895 Apr 17 j 07:22 13°≈25'32 behind sun begin -9895 Apr 17 j 20:20 -9889 Apr 26 j 13:51 21°**≈**39′01 2°23'40 behind sun end 13°≈26'21 conjunction -9895 May 03 j 13:32 -9889 Apr 26 j 13:46 morning rise 13°≈51'46 minimum elong 21°**≈**39′00 2°23'16 -9895 May 24 j 13:28 -9889 May 12 j 07:07 asc. node 14°≈23'11 morning rise 22°≈05'35 -9895 Jun 27 j 03:47 15°≈ retrograde -9889 Aug 05 j 05:02 23°≈29'30 -9895 Jul 27 j 05:58 retrograde 15°≈11'36 opposition -9889 Oct 23 j 01:13 22°**≈**21'35 2°44'16 -9895 Aug 26 j 13:38 15°R≈ min. Earth dist. -9889 Oct 26 j 05:27 22°≈17'17 37.51698 AU opposition -9895 Oct 14 j 09:18 14°≈05'37 0°09'39 direct -9888 Jan 13 j 12:16 21°≈10'38 min. Earth dist. -9895 Oct 17 j 09:25 14°≈01'41 39.03145 AU evening set -9888 Apr 11 j 12:11 22°≈38'04 direct -9894 Jan 04 j 22:08 12°≈56'53 max. Earth dist. -9888 Apr 23 j 18:25 22°≈58'52 39.38735 AU

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9888 in astronomical counting style is the year 9889 BCE in historical counting style. opposition -9888 Apr 27 i 07:01 23°≈04'55 2°48'53 -9882 Nov 02 i 06:45 2°\£55'56 5°56'05 conjunction minimum elong -9888 Apr 27 j 06:55 -9882 Nov 05 j 15:02 2°**升**51'13 35.72602 AU 23°≈04'54 2°48'29 min. Earth dist. -9888 May 12 j 22:22 -9881 Jan 23 j 12:28 1°\ 42'17 23°8831'33 direct morning rise -9888 Aug 06 j 01:16 -9881 Apr 24 j 05:35 3°**)**€17'36 24°≈56'19 retrograde evening set -9888 Oct 23 j 17:24 -9881 May 05 j 07:38 opposition 23°≈48'05 3°11'00 max. Earth dist. 3°**₭**37'37 37.58536 AU min. Earth dist. -9888 Oct 26 j 21:41 23°≈43'45 37.26277 AU 3°**)**44'18 5°50'49 direct -9887 Jan 14 j 03:46 22°≈36'46 conjunction -9881 May 08 j 23:42 -9881 May 08 j 23:28 evening set -9887 Apr 13 j 08:24 24°≈05'11 minimum elong 3°**)** 44'17 5°50'30 -9881 May 23 j 14:13 max. Earth dist. -9887 Apr 25 j 12:17 24°≈25'59 39.13229 AU morning rise 4°**₩**10'46 retrograde -9881 Aug 17 j 22:41 5°**)** 42'52 conjunction -9887 Apr 29 j 00:59 24°≈32'05 3°14'18 opposition -9881 Nov 04 j 03:02 4°**)**€32'08 6°24'14 -9887 Apr 29 j 00:52 -9881 Nov 07 j 11:06 minimum elong 24°**≈**32′05 3°13'55 min. Earth dist. 4°**₭**27'24 35.46674 AU -9887 May 14 j 13:46 -9880 Jan 25 j 09:04 morning rise 24°≈58'46 direct 3°**¥**18′02 retrograde -9887 Aug 07 j 20:08 26°≈24'27 evening set -9880 Apr 25 j 08:14 4°**)**₹54'40 opposition -9887 Oct 25 j 10:07 25°≈15'53 3°37'58 max. Earth dist. -9880 May 06 j 04:58 5°¥14'28 37.32419 AU min. Earth dist. -9887 Oct 28 j 15:38 25°≈11'28 37.00857 AU direct -9886 Jan 15 j 21:22 24°≈04'13 conjunction -9880 May 09 j 21:20 5°**H**21'14 6°17'24 evening set -9886 Apr 15 j 05:40 25°≈33'40 minimum elong -9880 May 09 j 21:06 5°**¥**21'13 6°17'06 5°**)**€47'33 max. Earth dist. -9886 Apr 27 j 06:31 25°≈54'26 38.87713 AU morning rise -9880 May 24 j 06:36 retrograde -9880 Aug 18 j 21:31 7°**)** €20'54 conjunction -9886 Apr 30 j 19:25 26°≈00'37 3°39'57 opposition -9880 Nov 05 j 00:03 6°**)** 6°52'31 minimum elong -9886 Apr 30 i 19:17 26°≈00'36 3°39'34 min. Earth dist. -9880 Nov 08 i 09:23 6°**)** 6°**)** 04'54 35.20747 AU -9886 May 16 i 05:30 26°≈27'19 direct -9879 Jan 26 i 05:56 4° **)** 55'10 morning rise retrograde -9886 Aug 09 i 15:04 27°≈53'56 evening set -9879 Apr 27 j 12:11 6°**¥**33'12 -9886 Oct 27 j 03:24 26°≈45'04 4°05'10 max. Earth dist. -9879 May 08 j 03:38 6°**)** 52'46 37.06342 AU opposition -9886 Oct 30 j 08:27 26°≈40'39 36.75411 AU min. Earth dist. -9885 Jan 17 j 15:33 25°≈33'03 -9879 May 11 j 19:34 6°¥59'35 6°44'03 conjunction direct -9885 Apr 17 j 03:41 minimum elong -9879 May 11 j 19:18 evening set 27°≈03'35 6°**)** €59'34 6°43'46 27°≈24'13 38.62118 AU -9879 May 25 j 23:17 max. Earth dist. -9885 Apr 29 j 00:11 7° # 25'43 morning rise -9879 Aug 20 j 19:00 9°**₩**00'22 retrograde 27°≈30'32 4°05'47 -9885 May 02 j 14:18 -9879 Nov 06 j 21:28 7°**)**48'47 7°20'52 conjunction opposition -9885 May 02 j 14:08 -9879 Nov 10 j 05:52 7°**)** 43′58 34.94903 AU 27°≈30'31 4°05'25 min. Earth dist. minimum elong -9885 May 17 j 21:11 27°≈57'15 -9878 Jan 28 j 04:19 6°**)** 33′45 morning rise direct -9885 Aug 11 j 09:04 -9878 Apr 29 j 17:09 8°**₩**13'14 retrograde 29°≈24'53 evening set 8°**¥**32'27 36.80363 AU -9885 Oct 28 j 21:24 -9878 May 10 j 01:39 opposition 28°≈15'40 4°32'36 max. Earth dist. -9885 Nov 01 j 04:03 min. Earth dist. 28°≈11'08 36.49888 AU -9878 May 13 j 18:24 8°**\()**39'24 7°10'45 direct -9884 Jan 19 j 07:56 27°≈03'17 conjunction -9884 Apr 18 j 02:40 28°≈34'56 minimum elong -9878 May 13 j 18:08 8°\mathbf{39'22} 7°10'29 evening set max. Earth dist. -9884 Apr 29 j 20:13 28°≈55'31 38.36418 AU morning rise -9878 May 27 j 16:04 9°\ 05'19 -9878 Aug 22 j 17:52 10°**)** 41′20 retrograde conjunction -9884 May 03 j 09:51 29°≈01'52 4°31'48 -9878 Nov 08 j 19:49 9°\ 29'20 7°49'16 opposition -9884 May 03 j 09:41 29°**≈**01'51 -9878 Nov 12 j 05:00 9°¥24'26 34.69225 AU minimum elong 4°31'27 min. Earth dist. -9884 May 18 j 13:10 29°≈28'34 -9877 Jan 30 j 00:41 8°**¥**13'50 morning rise direct -9884 Jun 06 j 13:41 0°**)**€ -9877 May 01 j 23:04 9°**)** 54'51 evening set -9884 Aug 12 j 03:37 0°**)** 57'14 max. Earth dist. -9877 May 12 j 02:32 10°**升**13'52 36.54574 AU retrograde -9884 Oct 20 j 18:22 30°R≈ -9884 Oct 29 i 15:51 -9877 May 15 i 17:45 10°**¥**20'45 7°37'27 opposition 29°≈47'42 5°00'14 conjunction min. Earth dist. -9884 Nov 01 j 22:28 29°≈43'08 36.24248 AU minimum elong -9877 May 15 i 17:27 10°**)** € 20'44 7°37'11 direct -9883 Jan 20 j 01:31 28°≈34'54 morning rise -9877 May 29 i 08:44 10°**)** 46′25 -9883 Apr 15 i 15:32 0°₩ -9877 Aug 24 j 16:47 12°**¥**23'54 retrograde -9883 Apr 20 j 02:41 0°\ 07'43 opposition -9877 Nov 10 j 18:52 11°**)** 11'28 8°17'40 evening set max. Earth dist. -9883 May 01 j 14:24 0°**升**28′05 38.10582 AU min. Earth dist. -9877 Nov 14 j 03:12 11°**)** €06'36 34.43770 AU -9876 Jan 31 j 22:21 9°\ 55'32 direct conjunction -9883 May 05 j 05:51 0°\(\)34'37 4°58'00 evening set -9876 May 03 j 06:18 11°**)** 38'09 minimum elong -9883 May 05 j 05:40 0°\;\;34'36 4°57'39 max. Earth dist. -9876 May 13 j 01:53 11°**¥**56'45 36.29034 AU -9883 May 20 j 05:25 1°**)**€01'16 morning rise -9883 Aug 14 j 01:43 2°**H**31'02 conjunction -9876 May 16 j 17:43 12°**)** €03'46 8°04'06 retrograde -9883 Oct 31 j 10:56 1°**升**21'07 5°28'04 -9876 May 16 j 17:25 12°**)** 03'44 8°03'52 opposition minimum elong -9883 Nov 03 j 18:29 1°**¥**16′29 35.98486 AU -9876 May 30 j 01:48 12°**∺**29′08 min. Earth dist. morning rise -9882 Jan 21 j 17:04 -9876 Aug 25 j 19:11 14°**)** 08'10 direct 0°**\(**07'54 retrograde -9876 Nov 11 j 18:25 12°**米**55'20 8°46'02 evening set -9882 Apr 22 j 03:34 1°**)** 41'57 opposition max. Earth dist. -9882 May 03 j 11:22 2°**₭**02'12 37.84603 AU min. Earth dist. -9876 Nov 15 j 02:34 12°**¥**50′27 34.18606 AU direct -9875 Feb 01 j 18:42 11°**)** 38'57 conjunction -9882 May 07 j 02:35 2°**H**08'46 5°24'20 evening set -9875 May 05 j 14:38 13°**¥**23′18 minimum elong -9882 May 07 j 02:23 2°**H**08'45 5°24'01 max. Earth dist. -9875 May 15 j 03:53 13°**米**41'34 36.03765 AU -9882 May 21 j 21:39 2°**)** 35'21 morning rise 4°**)**€06'15 -9875 May 18 j 18:33 13°**光** 48'33 8°30'41 retrograde -9882 Aug 15 j 22:46 conjunction

-	nical year style is used: Th		•	/ /		, ,	C 3
		•					24 22000 ATT
minimum elong	-9875 May 18 j 18:13	13° <b>)</b> (48'31	8°30'27	max. Earth dist.	-9868 May 28 j 08:55	26° <b>X</b> 50'10	34.33099 AU
morning rise	-9875 May 31 j 18:52	14° <b>)</b> € 13'34					
retrograde	-9875 Aug 27 j 21:22	15° <b>¥</b> 54'15		conjunction	-9868 May 31 j 20:16	26° <b>¥</b> 57′23	
opposition	-9875 Nov 13 j 18:57	14° <b>)</b> 41′01		minimum elong	-9868 May 31 j 19:51	26° <b>¥</b> 57′21	11°31'28
min. Earth dist.	-9875 Nov 17 j 03:06		33.93714 AU	morning rise	-9868 Jun 10 j 22:08	27° <b>¥</b> 18′13	
direct	-9874 Feb 03 j 18:13	13° <b>∺</b> 24'14		retrograde	-9868 Sep 10 j 09:20	29° <b>米</b> 12'45	
evening set	-9874 May 08 j 00:23	15° <b>∺</b> 10′22		opposition	-9868 Nov 26 j 21:36	27° <b>¥</b> 56'37	
max. Earth dist.	-9874 May 17 j 05:18	15° <b>)</b> 28′11	35.78771 AU	min. Earth dist.	-9868 Nov 30 j 03:42	27° <b>)</b> € 51'37	32.25816 AU
				direct	-9867 Feb 16 j 09:59	26° <b>)</b> 36′49	
conjunction	-9874 May 20 j 19:53	15° <b>¥</b> 35'14	8°57'10	evening set	-9867 May 24 j 11:39	28° <b>∺</b> 37'52	
minimum elong	-9874 May 20 j 19:32	15° <b>)</b> 35′12	8°56'58	max. Earth dist.	-9867 May 30 j 15:43	28° <b>)</b> € 50'43	34.09686 AU
morning rise	-9874 Jun 02 j 12:12	15° <b>¥</b> 59'51					
retrograde	-9874 Aug 30 j 02:31	17° <b>)</b> 42′15		conjunction	-9867 Jun 03 j 02:50	28° <b>¥</b> 57'58	11°56'05
opposition	-9874 Nov 15 j 20:07	16° <b>¥</b> 28'39	9°42'31	minimum elong	-9867 Jun 03 j 02:24	28° <b>)</b> 57'56	11°56'00
min. Earth dist.	-9874 Nov 19 j 03:17		33.69097 AU	morning rise	-9867 Jun 12 j 15:46	29° <b>)</b> 17′54	
direct	-9873 Feb 05 j 18:31	15° <b>)</b> 11'28			-9867 Jul 03 j 17:52	0°Υ	
evening set	-9873 May 10 j 11:19	16° <b>¥</b> 59'29		retrograde	-9867 Sep 12 j 18:47	1° <b>Υ</b> 14'46	
max. Earth dist.	-9873 May 19 j 07:55		35.54004 AU	retrograde	-9867 Nov 28 j 00:12	30°R <b></b> ₩	
max. Lartii dist.	-9673 Way 19 J 07.33	17 1049	33.34004 AU	opposition	-9867 Nov 29 j 04:46	29° <b>¥</b> 58'10	12°52'57
agnismation	0972 May 22 : 22:07	170¥22152	0922120		•		32.02909 AU
conjunction	-9873 May 22 j 22:07	17° <b>¥</b> 23'53	9°23'30	min. Earth dist.	-9867 Dec 02 j 09:26		32.02909 AU
minimum elong	-9873 May 22 j 21:46	17° <b>)</b> €23'51	9°23'18	direct	-9866 Feb 18 j 14:37	28° <b>)</b> €37'53	
morning rise	-9873 Jun 04 j 05:37	17° <b>)</b> 48′03			-9866 May 06 j 20:28	0°Υ	
retrograde	-9873 Sep 01 j 06:09	19° <b>)</b> 32′17		evening set	-9866 May 27 j 09:01	0° <b>Υ</b> 41'25	
opposition	-9873 Nov 17 j 22:20	18° <b>∺</b> 18'17		max. Earth dist.	-9866 Jun 02 j 00:28	0°'γ'53'18	33.86670 AU
min. Earth dist.	-9873 Nov 21 j 06:17		33.44709 AU				
direct	-9872 Feb 07 j 18:57	17° <b>)</b> € 00'42		conjunction	-9866 Jun 05 j 10:10	1° <b>Y</b> '00'30	12°20'05
evening set	-9872 May 11 j 23:39	18° <b>) €</b> 50'41		minimum elong	-9866 Jun 05 j 09:44	1° <b>Y</b> ′00′27	12°20'03
max. Earth dist.	-9872 May 20 j 11:39	19° <b>∺</b> 07'29	35.29451 AU	morning rise	-9866 Jun 14 j 09:02	1° <b>Ƴ</b> 19'25	
				retrograde	-9866 Sep 15 j 03:56	3° <b>Y</b> 18'43	
conjunction	-9872 May 24 j 00:55	19° <b>) (</b> 14′34	9°49'39	opposition	-9866 Dec 01 j 13:01	2° <b>Y</b> 01'38	13°18'26
minimum elong	-9872 May 24 j 00:33	19° <b>¥</b> 14'32	9°49'29	min. Earth dist.	-9866 Dec 04 j 17:28	1° <b>Y</b> 56'41	31.80453 AU
morning rise	-9872 Jun 04 j 23:06	19° <b>)</b> 38'13		direct	-9865 Feb 20 j 22:09	0° <b>Y</b> 40'55	
retrograde	-9872 Sep 02 j 10:21	21° <b>)</b> 24'20		evening set	-9865 May 30 j 08:21	2° <b>Y</b> 47'02	
opposition	-9872 Nov 19 j 01:14	20° <b>₩</b> 09'57	10°38'23	max. Earth dist.	-9865 Jun 04 j 10:08	2° <b>Y</b> 57'51	33.64170 AU
min. Earth dist.	-9872 Nov 22 j 08:03		33.20516 AU	man. Darun dibu	7000 van 0.j 10.00	2 , 0, 01	55.01170110
direct	-9871 Feb 08 j 22:12	18° <b>)</b> 51'57	33.20310710	conjunction	-9865 Jun 07 j 18:08	3° <b>Y</b> '04'58	12°43'29
evening set	-9871 May 14 j 13:28	20° <b>)</b> 43'59		minimum elong	-9865 Jun 07 j 17:42	3°Υ04'56	12°43'26
max. Earth dist.	-9871 May 22 j 14:43		35.05061 AU	morning rise	-9865 Jun 16 j 01:57	3° <b>Υ</b> 22'44	12 43 20
max. Earm dist.	-98/1 May 22 J 14.43	21 <b>K</b> 0003	33.03001 AU	Č	,		
	007134 26:0420	2101/07/17	10015125	retrograde	-9865 Sep 17 j 15:36	5°Υ24'36	12042116
conjunction	-9871 May 26 j 04:39	21° <b>)</b> (07'17	10°15'35	opposition	-9865 Dec 03 j 22:01	4°Υ07'05	13°43'16
minimum elong	-9871 May 26 j 04:15	21° <b>)</b> €07'15	10°15'25	min. Earth dist.	-9865 Dec 07 j 00:06		31.58554 AU
morning rise	-9871 Jun 06 j 16:54	21° <b>∺</b> 30′21		direct	-9864 Feb 23 j 07:23	2° <b>Y</b> 45'54	
retrograde	-9871 Sep 04 j 15:43	23° <b>¥</b> 18′26		evening set	-9864 Jun 01 j 09:23	4° <b>Ƴ</b> 54'47	
opposition	-9871 Nov 21 j 04:59	22° <b>∺</b> 03'39	11°06'00	max. Earth dist.	-9864 Jun 05 j 19:56	5° <b>Y</b> ′04'20	33.42247 AU
min. Earth dist.	-9871 Nov 24 j 12:30	21° <b>∺</b> 58'39	32.96505 AU				
direct	-9870 Feb 10 j 23:31	20° <b>)</b> 45′13		conjunction	-9864 Jun 09 j 02:52	5° <b>Ƴ</b> 11'25	13°06'11
evening set	-9870 May 17 j 04:49	22° <b>∺</b> 39'23		minimum elong	-9864 Jun 09 j 02:25	5° <b>Ƴ</b> 11'23	13°06'11
max. Earth dist.	-9870 May 24 j 20:43	22° <b>)</b> 54'51	34.80853 AU	morning rise	-9864 Jun 16 j 18:31	5° <b>Y</b> 27'55	
				retrograde	-9864 Sep 19 j 02:12	7° <b>Ƴ</b> 32'31	
conjunction	-9870 May 28 j 09:13	23° <b>₩</b> 02'00	10°41'15	opposition	-9864 Dec 05 j 08:01	6° <b>Ƴ</b> 14'33	14°07'19
minimum elong	-9870 May 28 j 08:48	23° <b>¥</b> 01'58	10°41'07	min. Earth dist.	-9864 Dec 08 j 09:43	6° <b>Y</b> 09'43	31.37268 AU
morning rise	-9870 Jun 08 j 10:40	23° <b>)</b> 24'25		direct	-9863 Feb 24 j 15:03	4° <b>Υ</b> ′52'57	
retrograde	-9870 Sep 06 j 20:19	25° <b>)</b> 14'34		evening set	-9863 Jun 04 j 12:56	7° <b>Υ</b> '04'45	
opposition	-9870 Nov 23 j 09:46	23° <b>)</b> 59'21	11°33'20	max. Earth dist.	-9863 Jun 08 j 08:07		33.20971 AU
min. Earth dist.	-9870 Nov 26 j 16:21		32.72682 AU	max. Earth dist.	-9803 Juli 08 J 08.07	/ 11301	33.209/1 AU
			32.72082 AU		00/2 Jun 11: 12:20	7° <b>Y</b> 19'56	13°28'08
direct	-9869 Feb 13 j 03:25	22° <b>)</b> (40'29		conjunction	-9863 Jun 11 j 12:28		
evening set	-9869 May 19 j 21:30	24° <b>)</b> €36'50	24.56040.477	minimum elong	-9863 Jun 11 j 12:01	7°Υ19'54	13°28'08
max. Earth dist.	-9869 May 27 j 01:17	24° <b>\</b> 51'26	34.56849 AU	morning rise	-9863 Jun 18 j 10:19	7° <b>Y</b> 35′00	
				retrograde	-9863 Sep 21 j 13:20	9° <b>Y</b> ′42′29	
conjunction	-9869 May 30 j 14:15	24° <b>)</b> 58'43	11°06'36	opposition	-9863 Dec 07 j 18:48	8° <b>Y</b> 24'06	14°30'33
minimum elong	-9869 May 30 j 13:51	24° <b>) (</b> 58′41	11°06'28	min. Earth dist.	-9863 Dec 10 j 18:02	8° <b>Ƴ</b> 19'24	31.16627 AU
morning rise	-9869 Jun 10 j 04:27	25° <b>∺</b> 20′23		direct	-9862 Feb 27 j 01:36	7° <b>Y</b> °02'07	
retrograde	-9869 Sep 09 j 03:02	27° <b>)</b> 12'41		evening set	-9862 Jun 07 j 18:58	9° <b>Y</b> 17'02	
opposition	-9869 Nov 25 j 15:17	25° <b>)</b> 57′01	12°00'19	max. Earth dist.	-9862 Jun 10 j 19:13	9° <b>Y</b> 23'39	33.00355 AU
min. Earth dist.	-9869 Nov 28 j 21:41		32.49106 AU		Ÿ		
direct	-9868 Feb 15 j 05:48	24° <b>)</b> (37'41		conjunction	-9862 Jun 13 j 22:50	9° <b>Y</b> '30'35	13°49'14
evening set	-9868 May 21 j 15:44	26°\(\frac{1}{36}\)'20		minimum elong	-9862 Jun 13 j 22:23	9° <b>Υ</b> 30'33	13°49'16
	2000 1.1mj =1 j 10.1TT	,,5020		010119			, .,

•	nical year style is used: Th		•	/ ·			,e 4
	-9862 Jun 20 j 01:15	9862 1°9862 1°9° <b>°°9</b> 99	n astronomicai co	max. Earth dist.	-9854 Jun 30 j 03:12		21 50020 ATT
morning rise	-9862 Sep 24 j 02:49	11° <b>Υ</b> 54'35		max. Earth dist.	-9654 Juli 30 J 05.12	20 1 04 42	31.36926 AU
retrograde	-9862 Sep 24 j 02.49 -9862 Dec 10 j 06:42	11 <b>γ</b> 34 33 10° <b>γ</b> 35'49	14°52'51	conjunction	-9854 Jul 02 j 12:54	28° <b>Ƴ</b> 10'21	15°59'21
opposition				minimum elong		$28^{\circ}$ \begin{picture}(10.21 \\ 28^{\circ} \begin{picture}\gamma 10.21 \\ 28^{\circ} \beq \gamma 10.21 \\ 28^{\circ} \begin{picture}\gamma 10.21 \\ 28^{\	15°59'21 15°59'34
min. Earth dist.	-9862 Dec 13 j 04:57	9° <b>Y</b> 13′29	30.96659 AU	minimum eiong	-9854 Jul 02 j 12:35		13 39 34
direct	-9861 Mar 01 j 10:24	11° <b>Y</b> 31'46		. 1	-9854 Aug 23 j 01:49	0° <b>8</b>	
evening set	-9861 Jun 11 j 04:19		22 00 402 444	retrograde	-9854 Oct 13 j 11:16	0° <b>8</b> 45'06	
max. Earth dist.	-9861 Jun 13 j 09:22	11 7 36 40	32.80403 AU	•••	-9854 Dec 06 j 14:38	30°RƳ	17000153
:	00(1 I 1(:00.5(	11° <b>Y</b> '43'23	14°09'26	opposition min. Earth dist.	-9854 Dec 29 j 14:33	29°Υ23'22	17°08'52 29.60048 AU
conjunction	-9861 Jun 16 j 09:56				-9854 Dec 31 j 20:52		29.00048 AU
minimum elong	-9861 Jun 16 j 09:30	11° <b>Υ</b> 43'21	14°09'28	direct	-9853 Mar 20 j 03:28	27° <b>Y</b> 58'31	
morning rise	-9861 Jun 21 j 14:14	11° <b>Y</b> 54'53		F 41 F 4	-9853 Jun 18 j 20:29	0°8	21 44627 ATT
retrograde	-9861 Sep 26 j 14:57	14° <b>Y</b> 08'51 12° <b>Y</b> 49'43	15°14'10	max. Earth dist.	-9853 Jul 02 j 21:46	0°032'33	31.44637 AU
opposition	-9861 Dec 12 j 19:35		30.77324 AU		0052 1 1 05:05 20	00 4 2012 4	1.600012.4
min. Earth dist.	-9861 Dec 15 j 15:55	12° <b>Y</b> 45'09	30.77324 AU	conjunction	-9853 Jul 05 j 05:20	0° <b>ප</b> 38'24 0° <b>ප</b> 38'23	
direct	-9860 Mar 02 j 21:40	13° <b>Y</b> 49'06		minimum elong	-9853 Jul 05 j 05:02	_	16°09'48
evening set	-9860 Jun 13 j 18:30		32.61091 AU	retrograde	-9853 Oct 16 j 07:27	3° <b>8</b> 14'16	17010114
max. Earth dist.	-9860 Jun 14 j 22:06	13 1 31 40	32.01091 AU	opposition	-9852 Jan 01 j 10:13	1° <b>8</b> 52'12	
	0000 1 17:21.50	13° <b>Y</b> ′58′23	1.4020120	min. Earth dist.	-9852 Jan 03 j 14:23	_	29.46417 AU
conjunction	-9860 Jun 17 j 21:50		14°28'39	direct	-9852 Mar 21 j 21:04	0° <b>8</b> 27'06	21 21245 ATT
minimum elong	-9860 Jun 17 j 21:24	13° <b>Y</b> 58′20	14°28'44	max. Earth dist.	-9852 Jul 04 j 19:04	3° <b>O</b> 02'49	31.31345 AU
morning rise	-9860 Jun 22 j 00:05	14° <b>Y</b> 07'33			0050 1 1 06:00 00	201.405155	1.010110
retrograde	-9860 Sep 28 j 05:24	16° <b>Y</b> 25'17	1.500.410.5	conjunction	-9852 Jul 06 j 22:29	3° <b>8</b> 07'55	
opposition	-9860 Dec 14 j 09:09	15° <b>℃</b> 05'46	15°34'25	minimum elong	-9852 Jul 06 j 22:14	3° <b>8</b> 07'54	16°18'26
min. Earth dist.	-9860 Dec 17 j 03:57		30.58621 AU	retrograde	-9852 Oct 18 j 01:32	5° <b>8</b> 44'49	
direct	-9859 Mar 05 j 08:05	13° <b>Y</b> 42'46		opposition	-9851 Jan 03 j 06:21	4° <b>8</b> 22'27	
evening set	-9859 Jun 17 j 18:04	16° <b>Y</b> ′09′25		min. Earth dist.	-9851 Jan 05 j 07:01	_	29.33781 AU
max. Earth dist.	-9859 Jun 17 j 13:43	16° <b>'Y'</b> 09'00	32.42394 AU	direct	-9851 Mar 24 j 16:40	2° <b>8</b> 57'09	
				max. Earth dist.	-9851 Jul 07 j 14:50	5° <b>8</b> 33'55	31.19118 AU
conjunction	-9859 Jun 20 j 10:43	16° <b>Y</b> 15'31	14°46'49				
minimum elong	-9859 Jun 20 j 10:18	16° <b>Y</b> 15′28	14°46'55	conjunction	-9851 Jul 09 j 15:59	5° <b>8</b> 38'50	16°25'03
morning rise	-9859 Jun 23 j 02:25	16° <b>Y</b> 21'31		minimum elong	-9851 Jul 09 j 15:45	5° <b>8</b> 38'49	16°25'19
retrograde	-9859 Sep 30 j 19:14	18° <b>Y</b> 43'51		retrograde	-9851 Oct 20 j 22:22	8° <b>8</b> 16'43	
opposition	-9859 Dec 16 j 23:59	17° <b>Y</b> 23′58	15°53'31	opposition	-9850 Jan 06 j 03:19	6° <b>8</b> 54'05	
min. Earth dist.	-9859 Dec 19 j 17:36		30.40513 AU	min. Earth dist.	-9850 Jan 08 j 00:54		29.22217 AU
direct	-9858 Mar 07 j 20:09	16° <b>Y</b> ′00′38		direct	-9850 Mar 27 j 10:52	5° <b>8</b> 28'38	
max. Earth dist.	-9858 Jun 20 j 04:23	18° <b>Y'</b> 28′16	32.24323 AU	max. Earth dist.	-9850 Jul 10 j 13:28	8° <b>8</b> 06'37	31.07999 AU
						001.11.110.5	
conjunction	-9858 Jun 23 j 00:06		15°03'53	conjunction	-9850 Jul 12 j 09:58	8° <b>8</b> 11'06	
minimum elong	-9858 Jun 22 j 23:42	18° <b>Y</b> 34'41	15°04'01	minimum elong	-9850 Jul 12 j 09:48	8° <b>8</b> 11'05	16°30'28
retrograde	-9858 Oct 03 j 12:12	21° <b>Y</b> 04'26	1.601.110.4	retrograde	-9850 Oct 23 j 18:11	10° <b>8</b> 49'53	15000110
opposition	-9858 Dec 19 j 15:37	19° <b>℃</b> 44'11	16°11'24	opposition	-9849 Jan 09 j 01:01	9° <b>8</b> 27'03	
min. Earth dist.	-9858 Dec 22 j 06:43		30.23025 AU	min. Earth dist.	-9849 Jan 10 j 19:27		29.11724 AU
direct	-9857 Mar 10 j 09:09	18° <b>Y</b> ′20′32		direct	-9849 Mar 30 j 06:46	8° <b>8</b> 01'28	
max. Earth dist.	-9857 Jun 22 j 21:04	20°\ <b>Y</b> '49'39	32.06884 AU	max. Earth dist.	-9849 Jul 13 j 10:21	10° <b>8</b> 40'23	30.98000 AU
conjunction	-9857 Jun 25 j 14:27	20° <b>Ƴ</b> 55'55	15°19'45	conjunction	-9849 Jul 15 j 04:18	10° <b>8</b> 44'37	16°33'27
minimum elong	-9857 Jun 25 j 14:27	20°Υ55'53	15°19'53	minimum elong	-9849 Jul 15 j 04:19	10° <b>8</b> 44'36	16°33'46
retrograde	-9857 Oct 06 j 04:16	23° <b>Y</b> 26'59	13 17 33	retrograde	-9849 Oct 26 j 15:36	13° <b>8</b> 24'15	10 33 40
opposition	-9857 Dec 22 j 08:12	22° <b>Υ</b> '06'21	16°27'59	opposition	-9848 Jan 11 j 23:00	12° <b>8</b> 01'13	17°41'58
min. Earth dist.	-9857 Dec 24 j 22:18		30.06178 AU	min. Earth dist.	-9848 Jan 13 j 13:42		29.02323 AU
direct	-9856 Mar 11 j 23:56	20° <b>Υ</b> 42'23	30.00170710	direct	-9848 Apr 01 j 02:19	10° <b>8</b> 35'34	27.02323 110
max. Earth dist.	-9856 Jun 24 j 14:06		31.90140 AU	max. Earth dist.	-9848 Jul 15 j 09:32		30.89092 AU
man. Barur alou	>000 tun 2.j100	25 , 125 .	31.501.10110	man zarm dige.	30.00 tal. 10 j 03.02	13 01550	30.03032110
conjunction	-9856 Jun 27 j 05:17	23° <b>Y</b> 19'00	15°34'21	conjunction	-9848 Jul 16 j 23:09	13° <b>8</b> 19'19	16°34'53
minimum elong	-9856 Jun 27 j 04:55	23° <b>Y</b> 18'58	15°34'31	minimum elong	-9848 Jul 16 j 23:03	13° <b>8</b> 19'18	16°35'15
retrograde	-9856 Oct 07 j 22:36	25° <b>Y</b> ′51′21			-9848 Aug 30 j 13:46	15° <b>8</b>	
opposition	-9856 Dec 24 j 01:27	24° <b>Y</b> '30'21	16°43'09	retrograde	-9848 Oct 28 j 11:04	15° <b>8</b> 59'42	
min. Earth dist.	-9856 Dec 26 j 12:30	24° <b>Y</b> 26'19	29.90018 AU	-	-9848 Dec 30 j 16:08	15° <b>₹</b> 8	
direct	-9855 Mar 14 j 16:51	23° <b>Y</b> ′06'04		opposition	-9847 Jan 13 j 21:45	14° <b>8</b> 36'30	17°42'43
max. Earth dist.	-9855 Jun 27 j 07:45		31.74119 AU	min. Earth dist.	-9847 Jan 15 j 09:51		28.93956 AU
	. 3		-	direct	-9847 Apr 03 j 22:43	13° <b>8</b> 10'49	-
conjunction	-9855 Jun 29 j 20:49	25° <b>Ƴ</b> 43'51	15°47'34		-9847 Jun 26 j 18:28	15° <b>8</b>	
minimum elong	-9855 Jun 29 j 20:28	25° <b>Y</b> 43'49	15°47'46	max. Earth dist.	-9847 Jul 18 j 07:17		30.81253 AU
retrograde	-9855 Oct 10 j 16:08	28° <b>Ƴ</b> 17'26			<b>,</b>		
opposition	-9855 Dec 26 j 19:37	26° <b>Ƴ</b> 56'04	16°56'49	conjunction	-9847 Jul 19 j 18:09	15° <b>8</b> 55'01	16°34'27
min. Earth dist.	-9855 Dec 29 j 05:28	26° <b>Y</b> ′52'06	29.74613 AU	minimum elong	-9847 Jul 19 j 18:05	15° <b>8</b> 55'00	16°34'49
direct	-9854 Mar 17 j 08:24	25° <b>Ƴ</b> 31'29		retrograde	-9847 Oct 31 j 10:06	18° <b>8</b> 36'03	
	•			•	-		

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9846 in astronomical counting style is the year 9847 BCE in historical counting style. 17°**8**12'42 17°41'26 opposition -9846 Jan 16 j 20:48 -9838 Feb 07 i 20:04 8°**Ⅱ**10'36 16°17'18 opposition -9846 Jan 18 j 04:42 17°**8**10'29 28.86614 AU min. Earth dist. -9838 Feb 07 j 23:27 8°П10'22 28.65099 AU min. Earth dist. -9846 Apr 06 j 19:16 15°**8**47'00 -9838 Apr 28 j 11:46 6°**Ⅱ**45'24 direct direct -9846 Jul 21 j 06:42 18°**8**28'23 30.74448 AU max. Earth dist. -9838 Aug 12 j 00:56 9°**Д**28'18 15°05'13 conjunction -9846 Jul 22 j 13:39 18°831'33 16°32'07 -9838 Aug 12 j 01:13 9°**Ⅲ**28′20 15°05'44 conjunction minimum elong 9°**Д**28'10 30.58827 AU -9846 Jul 22 j 13:38 18°**8**31'33 -9838 Aug 11 j 23:33 minimum elong 16°32'31 max. Earth dist. -9838 Nov 24 j 11:00 12°**Ⅱ**10′04 -9846 Nov 03 j 06:16 retrograde 21°**8**13'08 retrograde -9837 Feb 10 j 19:30 opposition -9845 Jan 19 j 20:29 19°**8**49'39 17°38'06 opposition 10°**I**I46'11 15°57'45 min. Earth dist. -9845 Jan 21 j 02:06 19°**8**47'35 28.80270 AU min. Earth dist. -9837 Feb 10 j 18:23 10°**I**46'15 28.67613 AU direct -9845 Apr 09 j 16:33 18°**8**23'56 direct -9837 May 01 j 09:37 9°**Ⅲ**21'11 -9845 Jul 24 j 05:29 21°**8**05'52 30.68682 AU max. Earth dist. evening set -9837 Aug 12 j 04:15 11°**Ⅲ**57'00 conjunction -9845 Jul 25 j 09:10 21°**8**08'43 16°27'53 conjunction -9837 Aug 14 j 19:27 12°**Ⅲ**03′26 14°46'06 minimum elong -9845 Jul 25 j 09:10 21°**8**08'43 16°28'17 minimum elong -9837 Aug 14 j 19:45 12°**Ⅲ**03′28 14°46'38 retrograde -9845 Nov 06 j 04:38 23°**8**50'42 max. Earth dist. -9837 Aug 14 j 23:07 12°**Д**03'48 30.62260 AU opposition -9844 Jan 22 j 20:14 22°**8**27'06 17°32'43 morning rise -9837 Aug 17 j 11:14 12°**Ⅲ**09'55 min. Earth dist. -9844 Jan 23 j 21:28 22°**8**25'20 28.74916 AU retrograde -9837 Nov 27 j 05:51 14°**Ⅱ**44'47 direct -9844 Apr 11 j 15:57 21°801'23 opposition -9836 Feb 13 j 18:41 13°**Ⅲ**21′01 15°36'22 max. Earth dist. -9844 Jul 26 j 04:41 23°843'46 30.63927 AU min. Earth dist. -9836 Feb 13 j 14:11 13°**Д**21'20 28.71335 AU direct -9836 May 03 j 08:25 11°**II**56'18 conjunction -9844 Jul 27 i 04:58 23°**8**46'16 16°21'45 evening set -9836 Aug 12 j 09:06 14°**I**I27'36 minimum elong -9844 Jul 27 i 05:02 23°**8**46'16 16°22'10 retrograde -9844 Nov 08 i 01:52 26°**8**28'33 conjunction -9836 Aug 16 j 13:31 14°**Ⅲ**37'48 14°25'20 opposition -9843 Jan 24 j 20:11 25°**8**04'51 17°25'16 minimum elong -9836 Aug 16 j 13:51 14°**Ⅱ**37'50 14°25'52 min. Earth dist. -9843 Jan 25 j 19:07 25°803'14 28.70557 AU max. Earth dist. -9836 Aug 16 j 20:06 14°**Д**38'28 30.66912 AU -9843 Apr 14 j 13:06 23°839'09 -9836 Aug 20 j 18:36 14°**Ⅱ**48'03 direct morning rise -9843 Jul 29 j 04:19 26°**8**21'53 30.60223 AU -9836 Nov 29 j 03:05 17°**Ⅱ**18'39 max. Earth dist. retrograde -9835 Feb 15 j 17:16 15°**耳**55'03 15°13'14 opposition -9843 Jul 30 j 00:46 26°**8**23'59 -9835 Feb 15 j 08:08 15°**Д**55'40 28.76236 AU conjunction 16°13'42 min. Earth dist. -9843 Jul 30 j 00:51 26°**8**23'59 -9835 May 06 j 05:52 16°14'08 direct 14° II 30′37 minimum elong 16°**Ⅱ**58′20 -9843 Nov 11 j 00:00 29°**8**06'27 -9835 Aug 13 j 22:57 retrograde evening set 17°15'45 -9842 Jan 27 j 20:16 27°**8**42'38 opposition -9842 Jan 28 j 14:42 27°**8**41'21 28.67217 AU -9835 Aug 19 j 07:21 17°**Ⅱ**11'17 14°02'59 min. Earth dist. conjunction -9842 Apr 17 j 13:48 26°**8**16'59 -9835 Aug 19 j 07:41 17°**Ⅱ**11'20 14°03'32 direct minimum elong 17°**Ⅲ**12'25 30.72719 AU -9835 Aug 19 j 18:31 max. Earth dist. -9842 Aug 01 j 20:19 29°**8**01'39 16°03'45 -9835 Aug 24 j 16:21 conjunction morning rise 17°**Ⅲ**24'19 minimum elong -9842 Aug 01 j 20:28 29°**8**01'39 16°04'12 retrograde -9835 Dec 01 j 20:55 19°**Ⅲ**51'35 max. Earth dist. -9842 Aug 01 j 03:03 28°859'52 30.57584 AU opposition -9834 Feb 18 j 15:48 18°**Ⅲ**28'09 14°48'26 -9842 Aug 26 j 01:29  $0^{\circ}II$ min. Earth dist. -9834 Feb 18 j 04:00 18°**Ⅲ**28'58 28.82247 AU retrograde -9842 Nov 13 j 22:16 1°**Ⅱ**44'11 direct -9834 May 09 j 03:03 17°**Ⅲ**04'03 -9841 Jan 30 j 20:30 0°II20'16 17°04'10 -9834 Aug 15 j 16:44 19°**Ⅲ**28'32 opposition evening set min. Earth dist. -9841 Jan 31 j 11:59 0°**Ц**19'12 28.64951 AU 30°₽₩ -9841 Feb 12 j 01:19 -9834 Aug 22 j 00:34 19°**耳**43'47 13°39'09 conjunction -9841 Apr 20 j 12:33 28°854'40 -9834 Aug 22 j 00:57 19°**耳**43'50 13°39'42 direct minimum elong -9834 Aug 22 i 14:51 19°**Д**45'14 30.79628 AU -9841 Jun 22 i 08:46  $0^{\circ}II$ max. Earth dist. -9834 Aug 28 i 09:07 morning rise 19°**Ⅲ**59′07 1°II39'03 15°51'54 conjunction -9841 Aug 04 i 15:53 retrograde -9834 Dec 04 i 15:39 22°**II**23'26 -9841 Aug 04 j 16:03 -9833 Feb 21 i 13:42 21°**Д**00'11 14°22'06 minimum elong 1°**I**39'04 15°52'22 opposition max. Earth dist. -9841 Aug 04 j 03:13 1°**I**I37'45 30.56078 AU min. Earth dist. -9833 Feb 20 i 21:18 21°**Ⅱ**01'19 28.89311 AU retrograde -9841 Nov 16 i 19:02 4°**Ⅲ**21'31 direct -9833 May 12 j 00:27 19°**Ⅲ**36'24 -9840 Feb 02 i 20:24 2°II57'34 16°50'33 evening set -9833 Aug 17 j 12:47 21°**Ⅲ**57'54 opposition min. Earth dist. -9840 Feb 03 j 07:33 2°**I**156'47 28.63802 AU direct -9840 Apr 22 j 13:00 1°II32'03 conjunction -9833 Aug 24 j 17:32 22°**I**15'10 13°13'57 minimum elong -9833 Aug 24 j 17:54 22°**Ⅱ**15'12 13°14'31 conjunction -9840 Aug 06 j 11:07 4°II16'02 15°38'10 max. Earth dist. -9833 Aug 25 j 11:35 22°**П**16'58 30.87552 AU minimum elong -9840 Aug 06 j 11:21 4°**I**16'03 15°38'40 morning rise -9833 Aug 31 j 23:00 22°II32'30 -9840 Aug 06 j 01:32 4°**Д**15'03 30.55749 AU -9833 Dec 07 j 09:03 24°**∏**54'03 max. Earth dist. retrograde -9840 Nov 18 j 17:03 6°**I**I58'22 -9832 Feb 24 j 11:05 23°**I**[31'01 13°54'21 retrograde opposition -9839 Feb 04 j 20:18 5°**I**34'23 16°34'55 -9832 Feb 23 j 16:23 23°**Д**32'17 28.97363 AU opposition min. Earth dist. 22°**Ⅲ**07'34 min. Earth dist. -9839 Feb 05 j 03:45 5°**Ⅲ**33'51 28.63844 AU direct -9832 May 13 j 19:20 direct -9839 Apr 25 j 11:13 4°**I**108′59 evening set -9832 Aug 18 j 10:31 24°**Ⅲ**26′13 conjunction -9839 Aug 09 j 06:12 6°**I**52'29 15°22'36 conjunction -9832 Aug 26 j 10:00 24°**I**45'14 12°47'28 minimum elong -9839 Aug 09 j 06:26 6°**Ⅲ**52'30 15°23'06 minimum elong -9832 Aug 26 j 10:23 24°**Ⅱ**45'17 12°48'01 -9839 Aug 09 j 01:44 6°**Ц**52'01 30.56655 AU max. Earth dist. -9832 Aug 27 j 07:12 24°**Д**47'21 30.96455 AU max. Earth dist.

-9839 Nov 21 j 13:38

retrograde

9°**Ⅲ**34'34

-9832 Sep 03 j 10:14

morning rise

25°**Ⅲ**04'21

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 6 Attention, astronomical year style is used: The year -9832 in astronomical counting style is the year 9833 BCE in historical counting style.

Attention, astronom	nical year style is used: Th	ie year -9832 i	in astronomical co	unting style is the year	9833 BCE in historical c	ounting style.	
retrograde	-9832 Dec 09 j 02:34	27° <b>Ⅲ</b> 23′18		evening set	-9825 Aug 31 j 10:23	11° <b>©</b> 01'13	
min. Earth dist.	-9831 Feb 25 j 08:53	26° <b>Ⅲ</b> 02'01	29.06347 AU				
opposition	-9831 Feb 26 j 07:51	26° <b>Ⅱ</b> 00′28	13°25'15	conjunction	-9825 Sep 12 j 10:24	11° <b>©</b> 28'25	9°14'07
direct	-9831 May 16 j 16:28	24° <b>Ⅲ</b> 37′20		minimum elong	-9825 Sep 12 j 10:45	11° <b>©</b> 28'27	
evening set	-9831 Aug 20 j 09:00	26° <b>Ⅲ</b> 53'15		max. Earth dist.	-9825 Sep 14 j 05:27	11° <b>©</b> 32'30	31.84633 AU
				morning rise	-9825 Sep 24 j 11:54	11° <b>©</b> 55'44	
conjunction	-9831 Aug 29 j 01:43	27° <b>Ⅱ</b> 13'51		retrograde	-9825 Dec 26 j 09:12	13° <b>©</b> 59'00	
minimum elong	-9831 Aug 29 j 02:06	27° <b>Ⅱ</b> 13'54		min. Earth dist.	-9824 Mar 13 j 15:35		29.95285 AU
max. Earth dist.	-9831 Aug 30 j 01:51		31.06269 AU	opposition	-9824 Mar 15 j 13:11	12° <b>©</b> 37'45	9°33'08
morning rise	-9831 Sep 06 j 19:20	27° <b>Ⅲ</b> 34'34		direct	-9824 Jun 02 j 23:25	11° <b>©</b> 17'05	
retrograde	-9831 Dec 11 j 19:18	29° <b>∏</b> 51′02		evening set	-9824 Sep 01 j 11:20	13° <b>©</b> 16'24	
min. Earth dist.	-9830 Feb 28 j 02:43		29.16246 AU				
opposition	-9830 Mar 01 j 04:13	28° <b>Ⅱ</b> 28'23	12°54'57	conjunction	-9824 Sep 13 j 21:25	13° <b>©</b> 44'18	
direct	-9830 May 19 j 11:39	27° <b>Ⅱ</b> 05'35		minimum elong	-9824 Sep 13 j 21:46	13°5544'20	8°41'18
evening set	-9830 Aug 22 j 08:26	29° <b>Ⅱ</b> 18'51		max. Earth dist.	-9824 Sep 15 j 20:15		32.01009 AU
. ,.	0020 4 21:17.02	200TI 40152	11051102	morning rise	-9824 Sep 26 j 09:01	14°5512'21	
conjunction	-9830 Aug 31 j 17:02	29° <b>Ⅱ</b> 40'53		retrograde	-9824 Dec 27 j 20:04	16°5513'44	20 11705 111
minimum elong	-9830 Aug 31 j 17:26	29° <b>Ⅱ</b> 40'55		min. Earth dist.	-9823 Mar 16 j 04:32		30.11785 AU
max. Earth dist.	-9830 Sep 01 j 20:51		31.17000 AU	opposition	-9823 Mar 18 j 04:02	14°952'48	8°5/'06
	-9830 Sep 08 j 19:39	0.203100		direct	-9823 Jun 05 j 14:06	13°532'34	
morning rise	-9830 Sep 10 j 02:27	0°503'00		evening set	-9823 Sep 03 j 12:21	15° <b>©</b> 29'53	
retrograde	-9830 Dec 14 j 11:04 -9829 Mar 03 j 23:38	2°517'04	12022122	· · · · · · · · · · · ·	0022 0 16:07:27	1.50055012.4	990(15)
opposition	·		12°23'32	conjunction	-9823 Sep 16 j 07:37	15°\$58'24	
min. Earth dist.	-9829 Mar 02 j 18:32	0°936'34 30°R耳	29.27042 AU	minimum elong max. Earth dist.	-9823 Sep 16 j 07:56	15°558'26	8°07'31 32.18252 AU
J: 4	-9829 Apr 09 j 18:56				-9823 Sep 18 j 08:51	16°903'00	32.18232 AU
direct	-9829 May 22 j 07:36 -9829 Jul 02 j 04:02	29° <b>Ⅱ</b> 32'08 0° <b>©</b>		morning rise retrograde	-9823 Sep 29 j 04:29 -9823 Dec 30 j 06:15	18°526'39	
avanina aat		1°9542'50		min. Earth dist.			30.29120 AU
evening set	-9829 Aug 24 j 08:13	1 2042 30		opposition	-9822 Mar 18 j 14:42 -9822 Mar 20 j 18:00	17 909 23 17°906'05	
conjunction	-9829 Sep 03 j 07:27	2° <b>©</b> 06'09	11°21'17	direct	-9822 Jun 08 j 04:24	17 \$300 03 15° \$346' 17	0 2041
minimum elong	-9829 Sep 03 j 07:51	2°506'11	11°21'77	evening set	-9822 Sep 05 j 13:37	17°5941'40	
max. Earth dist.	-9829 Sep 04 j 13:43		31.28627 AU	evening set	-9822 Sep 03 J 13.37	1/ 394140	
morning rise	-9829 Sep 13 j 07:49	2°529'33	31.28027 AU	conjunction	-9822 Sep 18 j 17:15	18° <b>©</b> 10'44	7°32'47
retrograde	-9829 Dec 17 j 03:02	4° <b>9</b> 41'17		minimum elong	-9822 Sep 18 j 17:13	18°9510'45	
min. Earth dist.	-9828 Mar 04 j 10:15		29.38763 AU	max. Earth dist.	-9822 Sep 18 j 17:33		32.36260 AU
opposition	-9828 Mar 05 j 18:24		11°51'05	morning rise	-9822 Oct 01 j 22:45	18° <b>©</b> 39'57	32.30200710
direct	-9828 May 24 j 01:14	1°956'53	11 01 00	retrograde	-9821 Jan 01 j 15:37	20°937'48	
evening set	-9828 Aug 25 j 08:21	4°905'07		min. Earth dist.	-9821 Mar 21 j 02:15		30.47215 AU
**************************************	,			opposition	-9821 Mar 23 j 07:12	19° <b>©</b> 17'35	
conjunction	-9828 Sep 04 i 21:19	4°929'34	10°50'38	direct	-9821 Jun 10 j 16:06	17° <b>9</b> 58'14	
minimum elong	-9828 Sep 04 j 21:42	4° <b>5</b> 29'36	10°51'12	evening set	-9821 Sep 07 j 14:54	19° <b>9</b> 51'47	
max. Earth dist.	-9828 Sep 06 j 07:45	4° <b>©</b> 32'54	31.41180 AU	C	1 3		
morning rise	-9828 Sep 15 j 11:14	4° <b>©</b> 54'08		conjunction	-9821 Sep 21 j 02:19	20°521'18	6°58'22
retrograde	-9828 Dec 18 j 17:27	7° <b>©</b> 03'36		minimum elong	-9821 Sep 21 j 02:36	20°521'20	6°58'57
min. Earth dist.	-9827 Mar 07 j 01:02	5° <b>©</b> 43'55	29.51417 AU	max. Earth dist.	-9821 Sep 23 j 08:49	20°526'19	32.54968 AU
opposition	-9827 Mar 08 j 12:15	5° <b>5</b> 41'34	11°17'44	morning rise	-9821 Oct 04 j 15:29	20°950'59	
direct	-9827 May 26 j 21:18	4° <b>©</b> 19'45		retrograde	-9820 Jan 04 j 00:34	22° <b>5</b> 647'11	
evening set	-9827 Aug 27 j 08:53	6° <b>5</b> 25'36		min. Earth dist.	-9820 Mar 22 j 11:50	21° <b>©</b> 30'54	30.65963 AU
				opposition	-9820 Mar 24 j 19:29	21° <b>5</b> 27'19	7°07'02
conjunction	-9827 Sep 07 j 10:19	6° <b>9</b> 51'05	10°19'09	direct	-9820 Jun 12 j 04:19	20° <b>©</b> 08'24	
minimum elong	-9827 Sep 07 j 10:41	6° <b>ॐ</b> 51'07	10°19'44	evening set	-9820 Sep 08 j 16:22	22° <b>©</b> 00'13	
max. Earth dist.	-9827 Sep 08 j 22:58	6° <b>©</b> 54'36	31.54688 AU				
morning rise	-9827 Sep 18 j 13:05	7° <b>©</b> 16'40		conjunction	-9820 Sep 22 j 10:34	22° <b>©</b> 30'06	6°23'48
retrograde	-9827 Dec 21 j 08:35	9° <b>5</b> 24'00		minimum elong	-9820 Sep 22 j 10:50	22° <b>©</b> 30'07	6°24'21
min. Earth dist.	-9826 Mar 09 j 14:18	8° <b>5</b> 04'47	29.65065 AU	max. Earth dist.	-9820 Sep 24 j 18:37	22° <b>©</b> 35'12	32.74262 AU
opposition	-9826 Mar 11 j 05:27	8° <b>©</b> 02'11	10°43'33	morning rise	-9820 Oct 06 j 06:56	23° <b>©</b> 00'10	
direct	-9826 May 29 j 14:12	6°5540'43		retrograde	-9819 Jan 05 j 10:06	24° <b>©</b> 54'47	
evening set	-9826 Aug 29 j 09:24	8° <b>5</b> 44'18		min. Earth dist.	-9819 Mar 24 j 21:31		30.85303 AU
_				opposition	-9819 Mar 27 j 07:06	23° <b>©</b> 35'16	6°30'00
conjunction	-9826 Sep 09 j 22:42	9°5510'41	9°46'57	direct	-9819 Jun 14 j 14:49	22°5516'46	
minimum elong	-9826 Sep 09 j 23:05	9° <b>©</b> 10'43	9°47'31	evening set	-9819 Sep 10 j 17:44	24° <b>©</b> 06'55	
max. Earth dist.	-9826 Sep 11 j 15:38		31.69176 AU	_			
morning rise	-9826 Sep 21 j 13:12	9°537'12		conjunction	-9819 Sep 24 j 18:21	24°937'06	5°49'08
retrograde	-9826 Dec 23 j 20:06	11°5542'27	20.50.001	minimum elong	-9819 Sep 24 j 18:35	24°937'08	5°49'41
min. Earth dist.	-9825 Mar 12 j 04:18		29.79691 AU	max. Earth dist.	-9819 Sep 27 j 05:16		32.94099 AU
opposition	-9825 Mar 13 j 21:52	10°520'54	10°08'39	morning rise	-9819 Oct 08 j 20:56	25°507'28	
direct	-9825 Jun 01 j 07:17	8° <b>©</b> 59'50		retrograde	-9818 Jan 07 j 18:13	27° <b>©</b> 00'34	

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9818 in astronomical counting style is the year 9819 BCE in historical counting style. -9818 Mar 27 j 06:36 25°5645'10 31.05161 AU conjunction -9812 Oct 08 i 04:11 8°**Ω**33'57 1°49'01 min. Earth dist. -9818 Mar 29 j 17:54 -9812 Oct 08 j 04:15 8°Ω33'58 1°49'30 25°9541'23 5°52'55 minimum elong opposition -9818 Jun 17 j 02:42 -9812 Oct 11 j 04:04 8°**Ω**40'04 34.46529 AU direct 24°9623'18 max. Earth dist. 26°9511'51 -9812 Oct 23 j 09:57 -9818 Sep 12 j 19:10 9°Ω04'47 evening set morning rise 10°**Ω**48'58 -9811 Jan 21 j 01:22 retrograde -9811 Apr 09 j 21:59 -9818 Sep 27 j 01:15 conjunction 26°5942'16 5°14'26 min. Earth dist. 9°**Ω**36'30 32.58421 AU -9818 Sep 27 j 01:29 -9811 Apr 12 j 22:17 minimum elong 26°9542'17 5°14'58 opposition 9°**Ω**32'04 1°37'42 -9818 Sep 29 j 13:00 -9811 Jul 01 j 10:05 max. Earth dist. 26°547'37 33.14414 AU direct 8°**Ω**16'44 morning rise -9818 Oct 11 j 09:44 27°9512'53 evening set -9811 Sep 25 j 01:45 9°**£**56′00 retrograde -9817 Jan 10 j 03:06 29°504'30 min. Earth dist. -9817 Mar 29 j 14:05 27°549'33 31.25514 AU conjunction -9811 Oct 10 j 06:17 10°**Ω**26′29 1°15'43 -9811 Oct 10 j 06:20 10°**Ω**26′29 1°16'13 opposition -9817 Apr 01 j 03:53 27°**5**45'38 5°15'52 minimum elong -9811 Oct 13 j 07:01 direct -9817 Jun 19 j 11:57 26°927'57 max. Earth dist. 10°**Ω**32'36 34.70316 AU evening set -9817 Sep 14 j 20:28 28°9514'58 morning rise -9811 Oct 25 j 13:52 10°**Ω**57'11 retrograde -9810 Jan 23 j 05:14 12°**Ω**40′22 conjunction -9817 Sep 29 j 07:39 28°**©**45'33 4°39'47 min. Earth dist. -9810 Apr 12 j 00:36 11°**Ω**28'21 32.82385 AU minimum elong -9817 Sep 29 j 07:50 28°**©**45'34 4°40'20 opposition -9810 Apr 15 j 02:47 11°**Ω**23'50 1°02'31 max. Earth dist. -9817 Oct 01 j 22:11 28°551'06 33.35184 AU direct -9810 Jul 03 j 13:13 10°**Ω**08'55 morning rise -9817 Oct 13 j 21:04 29°9516'20 evening set -9810 Sep 27 j 02:11 11°**Ω**47'09 -9817 Nov 05 j 04:03  $0^{\circ}\Omega$ retrograde -9816 Jan 12 j 08:09 1°**Ω**06′33 conjunction -9810 Oct 12 j 07:57 12°**Ω**17′28 0°42'47 -9816 Mar 25 i 13:52 30°R55 minimum elong -9810 Oct 12 i 07:59 12°Ω17'28 0°43'15 min. Earth dist. -9816 Mar 30 j 22:16 29°551'57 31.46336 AU max. Earth dist. -9810 Oct 15 i 11:16 12°Ω23'45 34.94512 AU -9816 Apr 02 j 12:53 29°5548'00 4°38'55 -9810 Oct 27 j 16:33 12°Ω48'00 opposition morning rise direct -9816 Jun 20 j 22:27 28°930'42 -9809 Jan 25 j 07:28 14°**Ω**30′14 retrograde -9816 Sep 07 j 21:26  $0^{\circ}\Omega$ -9809 Apr 14 j 03:48 13°**Ω**18'37 33.06722 AU min. Earth dist. -9816 Sep 15 j 21:41 0°Ω16'14 -9809 Apr 17 j 06:34 13°**Ω**14'05 0°27'46 evening set opposition -9809 Jul 05 j 17:39 11°Ω59'35 direct -9816 Sep 30 j 13:08 0°**Ω**46'55 4°05'13 -9809 Sep 29 j 02:46 conjunction 13°**Ω**36′51 evening set -9816 Sep 30 j 13:18 0°Ω46'56 4°05'45 minimum elong -9816 Oct 03 j 04:36 0°**Ω**52'31 33.56424 AU -9809 Oct 14 j 09:02 14°Ω06'57 0°10'18 max. Earth dist. conjunction 0°10'45 -9816 Oct 15 j 07:04 1°**Ω**17'49 -9809 Oct 14 j 09:02 minimum elong 14°**Ω**06'57 morning rise -9815 Jan 13 j 14:16 3°**Ω**06'40 -9809 Oct 14 j 04:06 14°**Ω**06′34 retrograde behind sun begin -9815 Apr 02 j 03:38 1°**£**52'33 31.67666 AU -9809 Oct 14 j 13:58 14°**Ω**07'21 min. Earth dist. behind sun end -9815 Apr 04 j 21:07 1°**Ω**48'26 4°02'09 -9809 Oct 17 j 12:29 14°**Ω**13'12 35.19027 AU opposition max. Earth dist. -9815 Jun 23 j 08:27 0°**Ω**31'31 -9809 Oct 29 j 18:21 14°**Ω**37'18 direct morning rise -9815 Sep 17 j 22:37 -9809 Nov 10 j 19:58 evening set 2°**Ω**15'38 15°**Ω** retrograde -9808 Jan 27 j 10:51 16°**Ω**18'38 conjunction -9815 Oct 02 j 17:48 2°**Ω**46'23 3°30'49 -9808 Feb 08 j 10:17 16°**Ω**16'36 desc. node -9815 Oct 02 j 17:57 2°Ω46'24 3°31'21 min. Earth dist. -9808 Apr 15 j 04:42 15°**Ω**07'28 33.31363 AU minimum elong max. Earth dist. -9815 Oct 05 j 11:59 2°**Ω**52'10 33.78151 AU -9808 Apr 18 j 09:29 15°**Ω**02'51 -0°06'30 opposition -9815 Oct 17 j 15:35 3°**Ω**17'21 -9808 Apr 20 j 08:37 15°RΩ morning rise -9814 Jan 15 j 18:19 5°**Ω**04'55 -9808 Jul 06 j 20:09 13°**Ω**48'45 retrograde direct -9814 Apr 04 j 10:20 3°Ω51'08 31.89533 AU -9808 Sep 16 j 14:36 15°**Ω** min. Earth dist. -9814 Apr 07 j 04:44 3°**Ω**47'00 3°25'35 -9808 Sep 30 j 03:13 15°**Ω**25'07 opposition evening set 2°**Ω**30′28 direct -9814 Jun 25 i 16:50 -9808 Oct 15 i 09:38 15°Ω54'59 -0°21'51 evening set -9814 Sep 19 i 23:34 4°Ω13'15 conjunction minimum elong -9808 Oct 15 i 09:37 15°Ω54'59 0°21'25 -9814 Oct 04 i 21:59 4°Ω44'00 2°56'37 16°**Ω**01'20 35.43775 AU conjunction max. Earth dist. -9808 Oct 18 i 14:58 -9814 Oct 04 i 22:06 4°Ω44'00 2°57'07 -9808 Oct 30 i 19:05 16°Ω25'05 minimum elong morning rise -9814 Oct 07 j 17:50 4°**Ω**49'52 34.00417 AU retrograde -9807 Jan 28 j 10:11 18°Ω05'35 max. Earth dist. -9814 Oct 19 j 22:57 5°Ω14'58 -9807 Apr 17 j 07:27 16°Ω54'45 33.56221 AU morning rise min. Earth dist. -9813 Jan 17 j 20:40 7°Ω01'19 -9807 Apr 20 j 12:02 16°Ω50'09 -0°40'15 retrograde opposition min. Earth dist. -9813 Apr 06 j 14:02 5°**Ω**48'01 32.11955 AU direct -9807 Jul 08 j 23:29 15°Ω36'28 5°**Ω**43'43 2°49'17 -9813 Apr 09 j 11:13 evening set -9807 Oct 02 j 03:27 17°**Ω**11'57 opposition 4°**£**27′35 direct -9813 Jun 28 j 00:29 -9813 Sep 22 j 00:28 6°**Ω**09'07 conjunction -9807 Oct 17 j 09:38 17°**Ω**41'33 -0°53'27 evening set -9807 Oct 17 j 09:36 17°**Ω**41'33 0°53'01 minimum elong -9813 Oct 07 j 01:23 6°**Ω**39'49 2°22'40 -9807 Oct 20 j 15:25 17°**Ω**47'53 35.68694 AU conjunction max. Earth dist. -9813 Oct 07 j 01:29 6°**Ω**39'49 2°23'11 -9807 Nov 01 j 18:47 18°**Ω**11′23 minimum elong morning rise -9813 Oct 09 j 22:55 -9806 Jan 30 j 09:06 19°**Ω**51'05 max. Earth dist. 6°**Ω**45'47 34.23210 AU retrograde -9813 Oct 22 j 05:11 7°**Ω**10'45 min. Earth dist. -9806 Apr 19 j 07:35 18°**Ω**40'40 33.81222 AU morning rise retrograde -9812 Jan 19 j 23:24 8°**£**55'59 opposition -9806 Apr 22 j 13:50 18°**Ω**35'59 -1°13'28 min. Earth dist. -9812 Apr 07 j 18:42 7°**Ω**43'04 32.34935 AU direct -9806 Jul 11 j 03:28 17°**Ω**22'40 opposition -9812 Apr 10 j 17:11 7°**Ω**38'43 2°13'18 evening set -9806 Oct 04 j 03:50 18°**Ω**57′20 -9812 Jun 29 j 05:13 6° **Ω**22'59 direct -9812 Sep 23 j 01:03 8°**Ω**03′20 -9806 Oct 19 j 09:11 19° $\Omega$ 26'38 -1°24'35 evening set conjunction

•	vicel year style is used: Th		•	* *	r 9807 BCE in historical c		C 0
minimum elong	-9806 Oct 19 j 09:08	19° <b>Ω</b> 26'38		unting style is the year	-9799 May 15 j 23:02	30°RΩ	
_	-9806 Oct 19 j 09:08		35.93700 AU	direct	-9799 Jul 23 j 01:30	29° <b>Ω</b> 05'00	
max. Earth dist.	-9806 Oct 22 j 13.42 -9806 Nov 03 j 17:46		33.93700 AU	direct	•		
morning rise		19°Ω56'11 21°Ω35'07		. ,	-9799 Sep 25 j 06:06 -9799 Oct 16 j 00:44	0° m/y	
retrograde	-9805 Feb 01 j 07:45		24.06222 ATT	evening set	-9/99 Oct 16 J 00:44	0°m/35'10	
min. Earth dist.	-9805 Apr 21 j 08:45		34.06323 AU	. ,.	0700 0 + 20 : 14 40	10 <b>m</b> -01145	49.4712.6
opposition	-9805 Apr 24 j 15:00	20° <b>Ω</b> 20'21	-1°46'08	conjunction	-9799 Oct 30 j 14:40	1° Mp 01'45	
direct	-9805 Jul 13 j 04:44	19° <b>Ω</b> 07'23		minimum elong	-9799 Oct 30 j 14:30	1° Mp 01'44	4°4703 37.71689 AU
evening set	-9805 Oct 06 j 03:53	20° <b>Ω</b> 41'16		max. Earth dist.	-9799 Nov 03 j 02:31	-	37./1089 AU
	0005 0 + 21 : 00 10	210 0 1011 4	1055112	morning rise	-9799 Nov 14 j 07:42	1° Mp 28'33	
conjunction	-9805 Oct 21 j 08:18	21°Ω10'14		retrograde	-9798 Feb 12 j 10:17	3° Mp 03'22	25.05401.411
minimum elong	-9805 Oct 21 j 08:14	21°Ω10'14		min. Earth dist.	-9798 May 02 j 18:39		35.85491 AU
max. Earth dist.	-9805 Oct 24 j 15:51		36.18782 AU	opposition	-9798 May 06 j 05:38	1° Mp 50'46	-5°1/'54
morning rise	-9805 Nov 05 j 15:38	21° <b>Ω</b> 39'27		direct	-9798 Jul 24 j 22:16	0° Mp 40'10	
retrograde	-9804 Feb 03 j 04:57	23°Ω17'40	2421406477	evening set	-9798 Oct 17 j 23:42	2°Mp09'54	
min. Earth dist.	-9804 Apr 22 j 08:26		34.31486 AU		0,000	207 26101	501.410.6
opposition	-9804 Apr 25 j 15:26	22° <b>Ω</b> 03'12	-2°18'13	conjunction	-9798 Nov 01 j 10:16	2° m/36'01	
direct	-9804 Jul 14 j 06:36	20° <b>Ω</b> 50'35		minimum elong	-9798 Nov 01 j 10:06	2° Tp 36'00	
evening set	-9804 Oct 07 j 03:46	22° <b>Ω</b> 23'42		max. Earth dist.	-9798 Nov 04 j 23:19	-	37.97674 AU
		_		morning rise	-9798 Nov 15 j 23:35	3° Mp 02'22	
conjunction	-9804 Oct 22 j 06:30	22° <b>Ω</b> 52'19		retrograde	-9797 Feb 14 j 04:08	4° Mp 36′47	
minimum elong	-9804 Oct 22 j 06:25	22° <b>Ω</b> 52'19		min. Earth dist.	-9797 May 04 j 14:36		36.11641 AU
max. Earth dist.	-9804 Oct 25 j 13:56		36.43918 AU	opposition	-9797 May 08 j 01:55	3° <b>m</b> 24'31	-5°45'36
morning rise	-9804 Nov 06 j 12:29	23° <b>Ω</b> 21'11		direct	-9797 Jul 26 j 19:33	2°Mp 14'17	
retrograde	-9803 Feb 04 j 04:10	24° <b>Ω</b> 58'43		evening set	-9797 Oct 19 j 22:44	3°m/43'37	
min. Earth dist.	-9803 Apr 24 j 07:25		34.56755 AU				
opposition	-9803 Apr 27 j 15:21	23° <b>N</b> 44'33	-2°49'44	conjunction	-9797 Nov 03 j 05:19	4° <b>m</b> 09'16	-5°40'11
direct	-9803 Jul 16 j 05:07	22° <b>Ω</b> 32'15		minimum elong	-9797 Nov 03 j 05:08	4° <b>m</b> 09'15	
evening set	-9803 Oct 09 j 03:27	24° <b>Ω</b> 04'41		max. Earth dist.	-9797 Nov 06 j 17:44	4° Mp 15'38	38.23687 AU
				morning rise	-9797 Nov 17 j 14:53	4° Mp 35'08	
conjunction	-9803 Oct 24 j 04:26	24° <b>Ω</b> 32'55	-2°54'52	retrograde	-9796 Feb 16 j 01:32	6° <b>™</b> 09'11	
minimum elong	-9803 Oct 24 j 04:20	24° <b>Ω</b> 32'55	2°54'29	min. Earth dist.	-9796 May 05 j 09:57	5° Mg 02'03	36.37810 AU
max. Earth dist.	-9803 Oct 27 j 13:47	24° <b>Ω</b> 39′20	36.69159 AU	opposition	-9796 May 08 j 21:56	4° <b>™</b> 57'16	-6°12'40
morning rise	-9803 Nov 08 j 08:24	25° <b>Ω</b> 01′24		direct	-9796 Jul 27 j 12:49	3° <b>™</b> 47′23	
retrograde	-9802 Feb 06 j 01:42	26° <b>Ω</b> 38'18		evening set	-9796 Oct 20 j 21:25	5°M) 16'21	
min. Earth dist.	-9802 Apr 26 j 06:40	25° <b>Ω</b> 29'06	34.82152 AU				
opposition	-9802 Apr 29 j 14:33	25° <b>Ω</b> 24'25	-3°20'38	conjunction	-9796 Nov 03 j 23:58	5°Mp41'32	-6°05'40
direct	-9802 Jul 18 j 04:33	24° <b>Ω</b> 12′26		minimum elong	-9796 Nov 03 j 23:46	5°Mp41'31	6°05'22
evening set	-9802 Oct 11 j 03:01	25° <b>Ω</b> 44'14		max. Earth dist.	-9796 Nov 07 j 13:43	5° <b>™</b> 47'57	38.49661 AU
				morning rise	-9796 Nov 18 j 05:14	6°Mp06'54	
conjunction	-9802 Oct 26 j 01:43	26° <b>Ω</b> 12′05	-3°23'53	retrograde	-9795 Feb 16 j 20:19	7° <b>m</b> 40'38	
minimum elong	-9802 Oct 26 j 01:35	26° <b>Ω</b> 12'04	3°23'30	min. Earth dist.	-9795 May 07 j 06:26	6° Mp 33′44	36.63902 AU
max. Earth dist.	-9802 Oct 29 j 10:53	26° <b>Ω</b> 18′26	36.94543 AU	opposition	-9795 May 10 j 17:31	6° Mp 29′02	-6°39'05
morning rise	-9802 Nov 10 j 03:31	26° <b>Ω</b> 40′10		direct	-9795 Jul 29 j 07:43	5° Mp 19'29	
retrograde	-9801 Feb 08 j 00:13	28° <b>Ω</b> 16′27		evening set	-9795 Oct 22 j 20:16	6° Mp 48′08	
min. Earth dist.	-9801 Apr 28 j 03:26	27° <b>Ω</b> 07'38	35.07725 AU				
opposition	-9801 May 01 j 13:07	27° <b>Ω</b> 02′53	-3°50'54	conjunction	-9795 Nov 05 j 18:22	7° <b>m</b> 12'48	-6°30'35
direct	-9801 Jul 20 j 02:22	25° <b>Ω</b> 51′13		minimum elong	-9795 Nov 05 j 18:11	7° <b>m</b> 12'48	6°30'18
evening set	-9801 Oct 13 j 02:28	27° <b>Ω</b> 22′26		max. Earth dist.	-9795 Nov 09 j 07:15	7° <b>m</b> 19'07	38.75528 AU
				morning rise	-9795 Nov 19 j 19:12	7° <b>m</b> 37'41	
conjunction	-9801 Oct 27 j 22:33	27° <b>Ω</b> 49'52	-3°52'19	retrograde	-9794 Feb 18 j 15:51	9° <b>m</b> 11'06	
minimum elong	-9801 Oct 27 j 22:26	27° <b>Ω</b> 49′52	3°51'58	min. Earth dist.	-9794 May 09 j 00:33	8° Mp 04'33	36.89862 AU
max. Earth dist.	-9801 Oct 31 j 09:19	27° <b>Ω</b> 56′18	37.20086 AU	opposition	-9794 May 12 j 12:32	7° <b>m</b> 59'49	-7°04'53
morning rise	-9801 Nov 11 j 21:44	28° <b>Ω</b> 17'33		direct	-9794 Jul 31 j 02:54	6° <b>m</b> 50′34	
retrograde	-9800 Feb 09 j 19:36	29° <b>Ω</b> 53'17		evening set	-9794 Oct 24 j 18:59	8° mp 18'55	
min. Earth dist.	-9800 Apr 29 j 01:45	28° <b>Ω</b> 44'45	35.33480 AU				
opposition	-9800 May 02 j 11:06	28° <b>Ω</b> 40'01	-4°20'33	conjunction	-9794 Nov 07 j 12:26	8° m 43'05	-6°54'55
direct	-9800 Jul 21 j 02:15	27° <b>Ω</b> 28'43		minimum elong	-9794 Nov 07 j 12:13	8° Mp 43'04	6°54'38
evening set	-9800 Oct 14 j 01:40	28° <b>Ω</b> 59'23		max. Earth dist.	-9794 Nov 11 j 01:40	8° m/49'23	39.01212 AU
-	·			morning rise	-9794 Nov 21 j 08:36	9° mp 07'27	
conjunction	-9800 Oct 28 j 18:56	29° <b>Ω</b> 26′24	-4°20'10	retrograde	-9793 Feb 20 j 09:11	10° <b>m</b> 40'34	
minimum elong	-9800 Oct 28 j 18:47	29° <b>Ω</b> 26′23		min. Earth dist.	-9793 May 10 j 20:29		37.15626 AU
max. Earth dist.	-9800 Nov 01 j 06:06		37.45816 AU	opposition	-9793 May 14 j 07:16	9° m 29'34	
morning rise	-9800 Nov 12 j 15:05	29° <b>Ω</b> 53'38		direct	-9793 Aug 01 j 23:22	8° m/20'37	
Ü	-9800 Nov 16 j 04:22	0° <b>m</b> y		evening set	-9793 Oct 26 j 17:32	9° m 48'40	
retrograde	-9799 Feb 10 j 14:49	1° m/28'53		-	ý	•	
min. Earth dist.	-9799 Apr 30 j 21:38		35.59411 AU	conjunction	-9793 Nov 09 j 06:10	10° <b>m</b> 12'20	-7°18'40
opposition	-9799 May 04 j 08:32	0° m) 15'57		minimum elong	-9793 Nov 09 j 05:57	10° <b>m</b> ) 12'19	
* *	, ,	-		3	<b>3</b>	•	

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 9 Attention, astronomical year style is used: The year -9793 in astronomical counting style is the year 9794 BCE in historical counting style.

Attention, astronom	ical year style is used: Th	e year -9793 i	n astronomical cou	inting style is the year	9794 BCE in historical c	ounting style.	
max. Earth dist.	-9793 Nov 12 j 19:05	10° <b>m</b> 18'34	39.26687 AU	conjunction	-9786 Nov 18 j 22:41	20° Mp 07'34	-9°48'45
morning rise	-9793 Nov 22 j 21:10	10° <b>m</b> 36'09		minimum elong	-9786 Nov 18 j 22:27	20° Mp 07'33	9°48'34
retrograde	-9792 Feb 22 j 00:37	12° <b>m</b> 08'59		max. Earth dist.	-9786 Nov 22 j 11:51		41.01001 AU
min. Earth dist.	-9792 May 11 j 14:12	11° Mp 02'55	37.41164 AU	morning rise	-9786 Nov 30 j 19:55	20° <b>m</b> 27'28	
opposition	-9792 May 15 j 01:16	10° <b>m</b> 58'16	-7°54'37	retrograde	-9785 Mar 03 j 11:34	21° <b>m</b> 59'02	
direct	-9792 Aug 02 j 19:58	9° <b>m</b> 49'35		min. Earth dist.	-9785 May 22 j 09:57	-•	39.16486 AU
evening set	-9792 Oct 27 j 16:00	11° <b>m</b> 17'22		opposition	-9785 May 25 j 19:56	20° m 50'04	-10°29'01
	0500 )	1107 10100	<b>5</b> 0.44154	direct	-9785 Aug 13 j 18:21	19° m 43'09	
conjunction	-9792 Nov 09 j 23:18	11° Mp 40'29		evening set	-9785 Nov 09 j 00:45	21° Mp 09'48	
minimum elong	-9792 Nov 09 j 23:05 -9792 Nov 13 j 11:34	11° Mp 40'28	39.51938 AU	aaniumatian	0795 Nov. 20 : 12:21	210 m, 20150	10007152
max. Earth dist. morning rise	-9792 Nov 23 j 09:14	12° My 03'47	39.31936 AU	conjunction minimum elong	-9785 Nov 20 j 13:21 -9785 Nov 20 j 13:06	21° my 28'59 21° my 28'58	
retrograde	-9791 Feb 22 j 16:40	13° My 36'21		max. Earth dist.	-9785 Nov 24 j 01:25	-•	41.25516 AU
min. Earth dist.	-9791 May 13 j 08:22	-	37.66519 AU	morning rise	-9785 Dec 02 j 03:49	21°Mp48'18	41.23310710
opposition	-9791 May 16 j 19:03	12° m/ 25'53		retrograde	-9784 Mar 04 j 02:34	23° m) 19'49	
direct	-9791 Aug 04 j 13:48	11° mp 17'27		min. Earth dist.	-9784 May 23 j 00:50	-	39.41124 AU
evening set	-9791 Oct 29 j 14:03	12° <b>m</b> ) 44'57		opposition	-9784 May 26 j 10:45	22° m) 11'07	
	·			direct	-9784 Aug 14 j 08:18	21° <b>m</b> 04'29	
conjunction	-9791 Nov 11 j 16:07	13° <b>m</b> 07'32	-8°04'28	evening set	-9784 Nov 09 j 22:11	22°m/31'05	
minimum elong	-9791 Nov 11 j 15:53	13° <b>m</b> 07'31	8°04'14				
max. Earth dist.	-9791 Nov 15 j 05:19	13° <b>m</b> 13'43	39.77017 AU	conjunction	-9784 Nov 21 j 03:55	22° <b>m</b> 49'42	-10°26'28
morning rise	-9791 Nov 24 j 20:25	13° <b>m</b> 30'18		minimum elong	-9784 Nov 21 j 03:41	22° <b>m</b> 49'41	10°26'20
retrograde	-9790 Feb 24 j 07:26	15° <b>m</b> 02'37		max. Earth dist.	-9784 Nov 24 j 16:47	22° <b>m</b> 55'35	41.49844 AU
min. Earth dist.	-9790 May 15 j 02:07	13° <b>m</b> 56'57	37.91708 AU	morning rise	-9784 Dec 02 j 11:14	23° <b>m</b> 08'25	
opposition	-9790 May 18 j 12:17	13° <b>m</b> 52'23	-8°41'51	retrograde	-9783 Mar 05 j 17:15	24° <b>m</b> 39'54	
direct	-9790 Aug 06 j 08:20	12° <b>m</b> 44'12		min. Earth dist.	-9783 May 24 j 16:42		39.65534 AU
evening set	-9790 Oct 31 j 12:16	14° <b>m</b> 11'28		opposition	-9783 May 28 j 01:18	23° Tp 31'28	-11°07'39
	050031 12:00 22	1.40 *** 2.212.0	000 (100	direct	-9783 Aug 15 j 22:21	22° m 25'06	
conjunction	-9790 Nov 13 j 08:32	14° m 33'30		evening set	-9783 Nov 11 j 19:42	23° Mp 51'42	
minimum elong	-9790 Nov 13 j 08:18	14° Mp 33'29			0792 N 22 : 19-10	2.49 m. 00142	10044121
max. Earth dist.	-9790 Nov 16 j 20:37		40.01958 AU	conjunction	-9783 Nov 22 j 18:10	24° Mp 09'43 24° Mp 09'42	
morning rise retrograde	-9790 Nov 26 j 07:10 -9789 Feb 26 j 01:29	14° My 55'42 16° My 27'49		minimum elong max. Earth dist.	-9783 Nov 22 j 17:54 -9783 Nov 26 j 05:33	-•	41.73920 AU
min. Earth dist.	-9789 May 16 j 18:01	-	38.16802 AU	morning rise	-9783 Nov 20 j 03:33	24° m) 27'50	41.73920 AO
opposition	-9789 May 20 j 04:54	15° m) 17'49		retrograde	-9782 Mar 07 j 09:31	25° m 59'18	
direct	-9789 Aug 07 j 22:58	14° <b>m</b> ) 09'52	y 0132	min. Earth dist.	-9782 May 26 j 06:35	-	39.89659 AU
evening set	-9789 Nov 02 j 10:10	15° m) 36'57		opposition	-9782 May 29 j 15:30	24° m 51'08	
Č	,	•		direct	-9782 Aug 17 j 10:49	23° m 45'01	
conjunction	-9789 Nov 15 j 00:37	15° <b>m</b> 58'26	-8°47'55	evening set	-9782 Nov 13 j 17:15	25° m 11'39	
minimum elong	-9789 Nov 15 j 00:23	15° <b>m</b> 58'25	8°47'44				
max. Earth dist.	-9789 Nov 18 j 13:43	16° Mp 04'30	40.26809 AU	conjunction	-9782 Nov 24 j 08:17	25° <b>m</b> 29'03	-11°02'04
morning rise	-9789 Nov 27 j 17:15	$16^{\circ}$ My $20^{\circ}04$		minimum elong	-9782 Nov 24 j 08:03	25° <b>m</b> 29'02	11°01'57
retrograde	-9788 Feb 27 j 17:07	17° <b>m</b> 51'59		max. Earth dist.	-9782 Nov 27 j 19:26	25° Mp 34'45	41.97667 AU
min. Earth dist.	-9788 May 17 j 11:30	-	38.41823 AU	morning rise	-9782 Dec 05 j 00:50	25° m 46'33	
opposition	-9788 May 20 j 21:17	16° Mp 42'13	-9°26'35	retrograde	-9781 Mar 08 j 22:30	27° Mp 18'02	
direct	-9788 Aug 08 j 15:21	15° Mp 34'32		min. Earth dist.	-9781 May 27 j 22:16	-•	40.13440 AU
evening set	-9788 Nov 03 j 07:52	17° Mp 01'27		opposition	-9781 May 31 j 05:21	26° Mp 10'07	-11°44'03
	0700 N 15 : 16.12	170 m 22122	0000147	direct	-9781 Aug 19 j 01:51	25° Mp 04'13	
conjunction	-9788 Nov 15 j 16:12	17° Mp 22'22		evening set	-9781 Nov 15 j 14:45	26° m 30'53	
minimum elong max. Earth dist.	-9788 Nov 15 j 15:58 -9788 Nov 19 j 04:52	17° Mp 22'21	9°08'34 40.51609 AU	conjunction	-9781 Nov 25 j 22:11	26° Mp 47'40	-11°10'05
morning rise	-9788 Nov 28 j 02:31	17° my 43'25	40.31009 AU	minimum elong	-9781 Nov 25 j 22:11 -9781 Nov 25 j 21:56	26° Mp 47'39	
retrograde	-9787 Feb 28 j 08:23	19° <b>m</b> ) 15'11		max. Earth dist.	-9781 Nov 29 j 08:38	-•	42.21068 AU
min. Earth dist.	-9787 May 19 j 02:23		38.66790 AU	morning rise	-9781 Dec 06 j 06:48	27° Mp 04'33	12.21000110
opposition	-9787 May 22 j 13:12	18° <b>m</b> ) 05'41		retrograde	-9780 Mar 09 j 09:34	28° m 36'02	
direct	-9787 Aug 10 j 08:39	16° <b>m</b> 58'14		min. Earth dist.	-9780 May 28 j 11:59	-	40.36850 AU
evening set	-9787 Nov 05 j 05:34	18° m, 25'02		opposition	-9780 May 31 j 18:53	27° m) 28'21	
ū	,	•		direct	-9780 Aug 19 j 18:20	26° m/22'40	
conjunction	-9787 Nov 17 j 07:30	18° <b>m</b> 45'23	-9°29'03	evening set	-9780 Nov 16 j 12:02	27° <b>m</b> 49'22	
minimum elong	-9787 Nov 17 j 07:15	18° <b>m</b> 45'22	9°28'52				
max. Earth dist.	-9787 Nov 20 j 20:17	18° <b>m</b> 51'22	40.76341 AU	conjunction	-9780 Nov 26 j 11:27	28° Mp 05'33	-11°35'36
morning rise	-9787 Nov 29 j 11:33	19° <b>m</b> 05'52		minimum elong	-9780 Nov 26 j 11:13	28° Mp 05'32	11°35'31
retrograde	-9786 Mar 01 j 22:55	$20^{\circ}$ My $37'31$		max. Earth dist.	-9780 Nov 29 j 20:37	-	42.44100 AU
min. Earth dist.	-9786 May 20 j 18:44	-	38.91697 AU	morning rise	-9780 Dec 06 j 12:12	28° <b>m</b> 21'48	
opposition	-9786 May 24 j 04:47	19° Mp 28'16	-10°08'49	retrograde	-9779 Mar 10 j 22:01	29° m 53'19	
direct	-9786 Aug 12 j 01:08	18° Mp 21'05		min. Earth dist.	-9779 May 30 j 02:07	-	40.59922 AU
evening set	-9786 Nov 07 j 03:09	19° <b>m</b> 47'48		opposition	-9779 Jun 02 j 08:14	28° Mp 45'50	-12~18'18

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 10 Attention, astronomical year style is used: The year -9779 in astronomical counting style is the year 9780 BCE in historical counting style. direct -9779 Aug 21 j 08:23 27° m 40'21 minimum elong -9773 Dec 06 i 01:48 6°**£**50′28 13°17'05 -9779 Nov 18 j 09:18 29° m 07'07 -9773 Dec 09 j 07:52 6° \$\oldsymbol{\Omega} 55'35 43.98689 AU max. Earth dist. evening set -9773 Dec 13 j 11:11 7°**£**02'04 morning rise -9779 Nov 28 j 00:44 29° m/22'39 -11°51'38 -9772 Mar 19 j 07:30 8°**£**34'27 conjunction retrograde 7°**2**32'20 42.15100 AU -9779 Nov 28 j 00:29 29° m/22'38 11°51'33 minimum elong min. Earth dist. -9772 Jun 07 j 17:12 -9779 Dec 01 j 10:14 max. Earth dist.  $29^{\circ}$  To 28'08 42.66815 AU opposition -9772 Jun 10 j 19:54 7°**2**28'26 -14°01'20 29° m 38'16 morning rise -9779 Dec 07 j 17:09 direct -9772 Aug 29 j 23:19 6°**£**24'21 -9779 Dec 21 j 14:39 0∘**⊽** evening set -9772 Nov 29 j 14:59 7°**£**52'18 -9778 Mar 12 j 08:56 retrograde 1°**₽**09'50 8°**£**03'07 -13°29'38 min. Earth dist. -9778 May 31 j 16:04 0°**೨**06'38 40.82685 AU conjunction -9772 Dec 06 j 13:23 opposition -9778 Jun 03 j 21:01 0°**2**02'33 -12°34'37 minimum elong -9772 Dec 06 j 13:10 8°**2**03'06 13°29'39 -9778 Jun 05 j 20:52 30°R, My max. Earth dist. -9772 Dec 09 j 19:35 8°**೨**08'12 44.19953 AU direct -9778 Aug 22 j 22:57  $28^{\circ}$  My 57'15morning rise -9772 Dec 13 j 12:10 8°**£**13'57 -9778 Nov 04 j 17:41 0∘**⊽** retrograde -9771 Mar 20 j 19:11 9°**£**46'36 evening set -9778 Nov 20 j 06:42 0°**£**24'05 min. Earth dist. -9771 Jun 09 j 06:04 8°**-**44'36 42.36385 AU opposition -9771 Jun 12 j 06:54 8° 240'49 -14° 14'01 conjunction -9778 Nov 29 j 13:36 0° 238'59 -12° 07'08 direct -9771 Aug 31 j 10:01 7°**£**36'56 minimum elong -9778 Nov 29 j 13:22 0°**ჲ**38'58 12°07'05 evening set -9771 Dec 01 j 13:17 9°205'11 max. Earth dist. -9778 Dec 02 j 21:33 0°**2**44'20 42.89259 AU morning rise -9778 Dec 08 j 21:31 0°**£**53'57 conjunction -9771 Dec 08 j 00:50 9°**2**15'15 -13°41'43 retrograde -9777 Mar 13 j 23:32 2°**£**25'34 minimum elong -9771 Dec 08 j 00:37 9°**2**15'15 13°41'44 min. Earth dist. -9777 Jun 02 i 04:19 1°**2**22'34 41.05212 AU max. Earth dist. -9771 Dec 11 i 05:31 9°**2**20'13 44.40901 AU opposition -9777 Jun 05 i 09:33 1° 218'29 -12° 50'24 morning rise -9771 Dec 14 i 12:37 9°**£**25'21 direct -9777 Aug 24 i 09:38 0°**£**13'23 retrograde -9770 Mar 22 j 08:08 10°**£**58'16 -9777 Nov 22 j 03:50 1°**£**40'19 min. Earth dist. -9770 Jun 10 j 16:44 9°**2**56'27 42.57313 AU evening set opposition -9770 Jun 13 j 17:28 9°**£**52'42 -14°26'14 -9777 Dec 01 j 02:08 1°**2**54'34 -12°22'08 -9770 Sep 01 j 19:34 8°**£**49'00 conjunction direct -9777 Dec 01 j 01:53 1°**2**54'33 12°22'05 -9770 Dec 03 j 11:53 10°**£**17'37 minimum elong evening set -9777 Dec 04 j 10:33 max. Earth dist. 1°**2**59'56 43.11478 AU -9777 Dec 10 j 01:19 -9770 Dec 09 j 12:03 10°**2**26'54 -13°53'22 morning rise 2°**₽**08'53 conjunction retrograde -9776 Mar 14 j 13:22 -9770 Dec 09 j 11:50 3°**₽**40'36 minimum elong 10°**2**26'54 13°53'24 2°**2**37'42 41.27539 AU -9776 Jun 02 j 17:59 -9770 Dec 12 j 15:43 min. Earth dist. max. Earth dist. 10°**2**31'47 44.61450 AU -9770 Dec 15 j 12:27 10°**♀**36'12 -9776 Jun 05 j 21:47 2°**2**33'43 -13°05'39 opposition morning rise 1°**≏**28'48 -9769 Mar 23 j 19:49 direct -9776 Aug 24 j 20:41 retrograde 12°**♀**09'27 -9769 Jun 12 j 05:12 evening set -9776 Nov 23 j 01:08 2°**£**55'52 min. Earth dist. 11°**♀**07'44 42.77826 AU -9769 Jun 15 j 04:05 opposition 11°**£**04'05 -14°38'00 -9776 Dec 01 j 14:29 3°**2**09'28 -12°36'37 conjunction direct -9769 Sep 03 j 05:53 10°**♀**00'33 minimum elong -9776 Dec 01 j 14:15 3°**2**09'27 12°36'36 evening set -9769 Dec 05 j 11:05 11°**≏**29'33 max. Earth dist. -9776 Dec 04 j 22:13 3°**£**14'45 43.33538 AU -9769 Dec 10 j 23:07 morning rise -9776 Dec 10 j 04:31 3°**£**23'06 conjunction 11°**△**38'02 -14°04'36 retrograde -9775 Mar 16 j 00:47 4°**£**54'56 minimum elong -9769 Dec 10 j 22:55 11°**△**38'01 14°04'38 -9775 Jun 04 j 05:20 3°**2**52'16 41.49704 AU max. Earth dist. -9769 Dec 14 j 02:09 11°**£**42'51 44.81572 AU min. Earth dist. -9775 Jun 07 j 09:40 3°**-**48'16 -13°20'21 -9769 Dec 16 j 11:13 11°**≏**46'30 opposition morning rise -9775 Aug 26 j 09:10 2°**-**43'32 -9768 Mar 24 j 03:05 13°**≏**20′06 direct retrograde -9775 Nov 24 j 22:21 4°**£**10'47 -9768 Jun 12 j 16:15 12°**£**18'31 42.97876 AU evening set min. Earth dist. opposition -9768 Jun 15 j 14:19 12°**2**14'55 -14°49'20 -9775 Dec 03 i 02:26 4°**£**23'42 -12°50'36 conjunction direct -9768 Sep 03 i 19:20 11°**≏**11'33 -9775 Dec 03 i 02:12 minimum elong 4°**2**3'41 12°50'34 evening set -9768 Dec 06 i 10:58 12°**-**40′59 max. Earth dist. -9775 Dec 06 i 09:29 4°**2**28'55 43.55434 AU -9775 Dec 11 i 07:17 4°**£**36'40 -9768 Dec 11 i 09:51 12°**2**48'35 -14°15'25 morning rise conjunction -9774 Mar 17 j 10:46 6°**₽**08'39 -9768 Dec 11 i 09:39 12°**2**48'34 14°15'28 retrograde minimum elong -9774 Jun 05 j 18:05 5°**2**06'08 41.71710 AU -9768 Dec 14 i 10:46 12°**2**53'15 45.01245 AU min. Earth dist. max. Earth dist. -9774 Jun 08 j 21:27 5° **2**02'12 -13°34'31 -9768 Dec 16 j 08:46 12°**£**56'11 opposition morning rise direct -9774 Aug 27 j 22:51 3°**£**57'41 retrograde -9767 Mar 25 j 12:22 14°**£**30'11 evening set -9774 Nov 26 j 19:47 5°**£**25′08 min. Earth dist. -9767 Jun 14 j 03:11 13°**2**28'43 43.17500 AU opposition -9767 Jun 17 j 00:23 13°**2**25'10 -15°00'14 conjunction -9774 Dec 04 j 14:27 5°**2**37'22 -13°04'06 -9767 Sep 05 j 06:27 12°**£**21'57 direct -9774 Dec 04 j 14:13 5°**△**37'21 13°04'05 -9767 Dec 08 j 11:56 13°**£**51'54 minimum elong evening set -9774 Dec 07 j 21:54 max. Earth dist. 5°**£**42'35 43.77166 AU -9767 Dec 12 j 20:30 morning rise -9774 Dec 12 j 09:34 5°**£**49'38 conjunction 13°**£**58'33 -14°25'49 retrograde -9773 Mar 18 j 19:07 7°**2**21'49 minimum elong -9767 Dec 12 j 20:19 13°**⊆**58'32 14°25'53 min. Earth dist. -9773 Jun 07 j 06:02 6°**♀**19'29 41.93516 AU max. Earth dist. -9767 Dec 15 j 21:31 14°**£**03'12 45.20502 AU opposition -9773 Jun 10 j 08:43 6° 215'34 -13° 48'11 morning rise -9767 Dec 17 j 04:59 14°**£**05′12 direct -9773 Aug 29 j 13:10 5°**2**11'16 retrograde -9766 Mar 26 j 21:52 15°**£**39'42 evening set -9773 Nov 28 j 17:25 6°**£**38'58 min. Earth dist. -9766 Jun 15 j 14:50 14°**£**38'16 43.36712 AU -9766 Jun 18 j 10:13 14°**△**34'49 -15°10'42 opposition -9773 Dec 06 j 02:02 6° \$\oldsymbol{\Omega} 50'29 -13°17'06 -9766 Sep 06 j 17:05 13°**♀**31'44 conjunction direct

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 11 Attention, astronomical year style is used: The year -9766 in astronomical counting style is the year 9767 BCE in historical counting style.

Attention, astronomi	cal year style is used: Th	e year -9766	in astronomical cou	nting style is the year	9767 BCE in historical c	ounting style.	
evening set	-9766 Dec 10 j 14:41	15° <b>≏</b> 02'20		min. Earth dist.	-9758 Jun 24 j 19:59	23° <b>≏</b> 38'14	44.79987 AU
				opposition	-9758 Jun 27 j 08:57	23° <b>≏</b> 35'11	-16°18'56
conjunction	-9766 Dec 14 j 06:54	15° <b>≏</b> 07'55		direct	-9758 Sep 15 j 17:03	22° <b>ჲ</b> 33'21	
minimum elong	-9766 Dec 14 j 06:42	15° <b>≏</b> 07'54	14°35'54				
morning rise	-9766 Dec 17 j 22:57	15° <b>≙</b> 13'30		conjunction	-9758 Dec 23 j 11:32	24° <b>≏</b> 06'50	
max. Earth dist.	-9766 Dec 17 j 06:10		45.39390 AU	minimum elong	-9758 Dec 23 j 11:23	24° <b>Ω</b> 06'49	
retrograde	-9765 Mar 28 j 09:07	16° <b>≏</b> 48'36	12.55505.133	max. Earth dist.	-9758 Dec 26 j 03:20		46.80384 AU
min. Earth dist.	-9765 Jun 17 j 00:06		43.55585 AU	retrograde	-9757 Apr 06 j 08:13	25° <b>£</b> 44'30	44.06200 411
opposition	-9765 Jun 19 j 19:36	15° <b>Ω</b> 43'53	-15°20'45	min. Earth dist.	-9757 Jun 26 j 05:40		44.96308 AU
direct evening set	-9765 Sep 08 j 01:20 -9765 Dec 12 j 20:13	14° <b>Ω</b> 40'56 16° <b>Ω</b> 12'22		opposition direct	-9757 Jun 28 j 17:01 -9757 Sep 17 j 03:05	24° <b>Ω</b> 41'14 23° <b>Ω</b> 39'33	-10-2541
evening set	-9703 DCC 12 J 20.13	10 = 12 22		direct	-9757 Sep 17 J 05.05	23 = 39 33	
conjunction	-9765 Dec 15 j 17:01	16° <b>≏</b> 16'43	-14°45'22	conjunction	-9757 Dec 24 j 20:41	25° <b>≏</b> 12'43	-15°47'19
minimum elong	-9765 Dec 15 j 16:51	16° <b>≏</b> 16'42		minimum elong	-9757 Dec 24 j 20:32	25° <b>≙</b> 12'43	
morning rise	-9765 Dec 18 j 13:38	16° <b>≏</b> 21'03		max. Earth dist.	-9757 Dec 27 j 12:09	25° <b>≏</b> 16'37	46.96343 AU
max. Earth dist.	-9765 Dec 18 j 15:45	16° <b>≏</b> 21'11	45.57961 AU	retrograde	-9756 Apr 06 j 13:53	26° <b>ჲ</b> 50'03	
retrograde	-9764 Mar 28 j 18:49	17° <b>≏</b> 56'58		min. Earth dist.	-9756 Jun 26 j 15:25	25° <b>≏</b> 49'48	45.12110 AU
min. Earth dist.	-9764 Jun 17 j 11:12	16° <b>≙</b> 55'45	43.74173 AU	opposition	-9756 Jun 29 j 01:01	25° <b>≏</b> 46'55	-16°32'05
opposition	-9764 Jun 20 j 05:01	16° <b>≙</b> 52'24	-15°30'20	direct	-9756 Sep 17 j 14:11	24° <b>≏</b> 45'22	
direct	-9764 Sep 08 j 11:05	15° <b>≏</b> 49'36					
evening set	-9764 Dec 14 j 08:46	17° <b>≏</b> 22'20		conjunction	-9756 Dec 25 j 05:26	26° <b>≏</b> 18'13	-15°53'26
				minimum elong	-9756 Dec 25 j 05:18	26° <b>≏</b> 18'13	
conjunction	-9764 Dec 16 j 02:54	17° <b>≏</b> 25'00		max. Earth dist.	-9756 Dec 27 j 18:29		47.11798 AU
minimum elong	-9764 Dec 16 j 02:42	17° <b>≏</b> 24'59	14°54'37	retrograde	-9755 Apr 07 j 23:07	27° <b>♀</b> 55'12	
morning rise	-9764 Dec 17 j 20:42	17° <b>≏</b> 27'37		min. Earth dist.	-9755 Jun 27 j 23:40		45.27413 AU
max. Earth dist.	-9764 Dec 19 j 01:21		45.76283 AU	opposition	-9755 Jun 30 j 08:49	26° <b>£</b> 52'13	-16°38'08
retrograde	-9763 Mar 30 j 02:01	19° <b>₽</b> 04'49	42 02505 ATT	direct	-9755 Sep 18 j 21:35	25° <b>≏</b> 50'45	
min. Earth dist.	-9763 Jun 18 j 20:29		43.92505 AU		0755 D 26: 14:12	279 0 22117	15950112
opposition direct	-9763 Jun 21 j 14:06	18° <b>♀</b> 00'26 16° <b>♀</b> 57'46	-13 39 29	conjunction minimum elong	-9755 Dec 26 j 14:13 -9755 Dec 26 j 14:05	27° <b>£</b> 23'17 27° <b>£</b> 23'17	
direct	-9763 Sep 09 j 22:41	10 == 3 / 40		max. Earth dist.	-9755 Dec 29 j 02:29		47.26759 AU
conjunction	-9763 Dec 17 j 12:38	18° <b>≏</b> 32'49	-15°03'14	retrograde	-9754 Apr 09 j 08:18	27 <b>=</b> 20 37 28° <b>£</b> 59'55	47.20739 AU
minimum elong	-9763 Dec 17 j 12:28	18° <b>⊆</b> 32'48		min. Earth dist.	-9754 Jun 29 j 09:35		45.42244 AU
max. Earth dist.	-9763 Dec 20 j 09:33		45.94359 AU	opposition	-9754 Jul 01 j 16:22	27° <b>♀</b> 57'02	
retrograde	-9762 Mar 31 j 11:06	20° <b>£</b> 12'15	10.5 1505 110	direct	-9754 Sep 20 j 04:32	26° <b>♀</b> 55'39	10 .550
min. Earth dist.	-9762 Jun 20 j 06:04	19° <b>≏</b> 11'19	44.10606 AU		1 3		
opposition	-9762 Jun 22 j 23:00	19° <b>ჲ</b> 08'02	-15°48'12	conjunction	-9754 Dec 27 j 22:54	28° <b>≏</b> 27'54	-16°04'38
direct	-9762 Sep 11 j 08:14	18° <b>≏</b> 05'32		minimum elong	-9754 Dec 27 j 22:48	28° <b>≏</b> 27'53	16°04'51
				max. Earth dist.	-9754 Dec 30 j 09:59	28° <b>ჲ</b> 31′28	47.41295 AU
conjunction	-9762 Dec 18 j 22:22	19° <b>≏</b> 40'14	-15°11'32		-9753 Mar 22 j 05:02	$0^{\circ}$ M	
minimum elong	-9762 Dec 18 j 22:11	19° <b>≏</b> 40'13		retrograde	-9753 Apr 10 j 17:00	0°M04'09	
max. Earth dist.	-9762 Dec 21 j 19:30		46.12202 AU		-9753 Apr 30 j 04:00	30° <b>₹</b> Ω	
retrograde	-9761 Apr 01 j 18:36	21° <b>≏</b> 19'18		min. Earth dist.	-9753 Jun 30 j 17:14		45.56664 AU
min. Earth dist.	-9761 Jun 21 j 16:12		44.28441 AU	opposition	-9753 Jul 02 j 23:41	29° <b>₽</b> 01'23	-16°49'11
opposition	-9761 Jun 24 j 07:46	20° <b>£</b> 15'16	-15°56'29	direct	-9753 Sep 21 j 11:58	28° <b>≏</b> 00'05	
direct	-9761 Sep 12 j 18:40	19° <b>≏</b> 12'57		agniumation	0752 Dag 20 : 07:05	29° <b>₽</b> 32'01	16900!44
conjunction	-9761 Dec 20 j 07:42	20° <b>₽</b> 47'19	15010126	conjunction minimum elong	-9753 Dec 29 j 07:05 -9753 Dec 29 j 06:58	29° <b>⊆</b> 32'01	16°09'58
minimum elong	-9761 Dec 20 j 07:33	20° <b>⊆</b> 47'18		max. Earth dist.	-9753 Dec 27 j 00:38		47.55446 AU
max. Earth dist.	-9761 Dec 23 j 03:08		46.29779 AU	max. Earth dist.	-9752 Jan 17 j 20:39	0° <b>™</b>	17.33 110 110
retrograde	-9760 Apr 02 j 06:02	22° <b>₽</b> 26'01	10.25775110	retrograde	-9752 Apr 11 j 00:30	1°ML07'56	
min. Earth dist.	-9760 Jun 22 j 00:45		44.45991 AU	min. Earth dist.	-9752 Jul 01 j 01:51		45.70746 AU
opposition	-9760 Jun 24 j 16:18	21° <b>≏</b> 22'12	-16°04'21	opposition	-9752 Jul 03 j 06:58	0°M05'16	-16°54'10
direct	-9760 Sep 13 j 01:07	20° <b>₽</b> 20'03		••	-9752 Jul 07 j 17:29	30° <b>Ŗ</b> Ω	
				direct	-9752 Sep 21 j 19:51	29° <b>≙</b> 04'03	
conjunction	-9760 Dec 20 j 17:01	21° <b>≙</b> 54'06	-15°26'57		-9752 Dec 04 j 07:23	$0^{\circ}$ M	
minimum elong	-9760 Dec 20 j 16:52	21° <b>≏</b> 54'06	15°27'06				
max. Earth dist.	-9760 Dec 23 j 12:00		46.47040 AU	conjunction	-9752 Dec 29 j 15:24	0° <b>M</b> 35′42	
retrograde	-9759 Apr 03 j 17:44	23° <b>≏</b> 32'28		minimum elong	-9752 Dec 29 j 15:19	0° <b>M</b> 35'42	
min. Earth dist.	-9759 Jun 23 j 11:14		44.63199 AU	max. Earth dist.	-9751 Jan 01 j 00:54		47.69294 AU
opposition	-9759 Jun 26 j 00:44	22° <b>≏</b> 28'50	-16°11'50	retrograde	-9751 Apr 12 j 04:19	2°MJ11'17	
direct	-9759 Sep 14 j 07:08	21° <b>≏</b> 26'51		min. Earth dist.	-9751 Jul 02 j 09:54		45.84523 AU
i <i>e</i>	0750 D 22:02:02	220 0 0000	1,502,410.5	opposition	-9751 Jul 04 j 13:58	1°M08'44	-16°58'46
conjunction	-9759 Dec 22 j 02:22	23° <b>£</b> 00'37		direct	-9751 Sep 23 j 06:18	0° <b>™</b> 07'36	
minimum elong max. Earth dist.	-9759 Dec 22 j 02:14 -9759 Dec 24 j 20:20	23° <b>₽</b> 00'36	15°34'16 46.63940 AU	conjunction	0751 Dec. 20 : 22:20	1°M38'58	16010150
retrograde	-9759 Dec 24 j 20:20 -9758 Apr 05 j 01:11	24° <b>£</b> 38'38	70.0 <i>37</i> 40 AU	conjunction minimum elong	-9751 Dec 30 j 23:28 -9751 Dec 30 j 23:21	1°M38'58	
15110B1UUC	7,50 ripi 00 j 01.11	2. —3030			7,51 Dec 50 j 25.21	1 1103030	10 17 04

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9750 in astronomical counting style is the year 9751 BCE in historical counting style. -9750 Jan 02 j 06:58 1°ML42'19 47.82867 AU opposition -9742 Jul 14 i 00:04 10°M27'35 -17°25'01 max. Earth dist. -9750 Apr 13 j 11:33 3°M14'15 -9742 Oct 02 j 18:11 9°M27'20 retrograde direct -9750 Jul 03 j 17:03 min. Earth dist. 2°M14'22 45.98035 AU 2°M11'49 -17°03'01 -9741 Jan 09 j 20:20 -9750 Jul 05 j 20:54 10°M56'48 -16°43'36 opposition conjunction -9750 Sep 24 j 14:02 -9741 Jan 09 j 20:17 10°M56'48 16°43'57 direct 1°M10'47 minimum elong -9741 Jan 11 j 17:11 max. Earth dist. 10°M59'26 48.88878 AU -9749 Jan 01 j 07:29 conjunction 2°M41'54 -16°22'51 retrograde -9741 Apr 23 j 02:06 12°M29'43 -9749 Jan 01 j 07:24 -9741 Jul 13 j 13:48 minimum elong 2°ML41'54 16°23'07 min. Earth dist. 11°M30'21 47.02573 AU -9749 Jan 03 j 14:50 max. Earth dist. 2°M45'13 47.96166 AU opposition -9741 Jul 15 j 05:48 11°M28'25 -17°26'24 retrograde -9749 Apr 14 j 20:18  $4^{\circ}$ ML16'53direct -9741 Oct 04 j 03:26  $10^{\circ}$ ML28'13 min. Earth dist. -9749 Jul 05 j 01:42 3°M17'02 46.11264 AU -9740 Jan 11 j 03:21 opposition -9749 Jul 07 j 03:41 3°M14'34 -17°06'54 conjunction 11°M57'29 -16°44'53 -9749 Sep 25 j 19:56 -9740 Jan 11 j 03:20 direct 2°M13'39 minimum elong 11°M57'29 16°45'13 max. Earth dist. -9740 Jan 12 j 22:00 11°**M**59'59 48.98450 AU conjunction -9748 Jan 02 j 15:22 3°M44'32 -16°26'32 retrograde -9740 Apr 23 j 06:49 13°M30'10 minimum elong -9748 Jan 02 j 15:16 3°M44'32 16°26'47 min. Earth dist. -9740 Jul 13 j 20:07 12°M30'52 47.11998 AU max. Earth dist. -9748 Jan 04 j 21:32 3°M47'46 48.09200 AU opposition -9740 Jul 15 j 11:30 12°M28'57 -17°27'29 retrograde -9748 Apr 15 j 04:22 5°M19'14 direct -9740 Oct 04 j 11:06 11°ML28'49 min. Earth dist. -9748 Jul 05 j 08:19 4°M19'32 46.24199 AU opposition -9748 Jul 07 j 10:17 4°M17'04 -17°10'26 conjunction -9739 Jan 11 j 10:16 12°ML57'53 -16°45'51 direct -9748 Sep 26 j 01:41 3°M16'16 minimum elong -9739 Jan 11 j 10:13 12°M57'53 16°46'11 max. Earth dist. -9739 Jan 13 i 04:44 13°ML00'22 49.07688 AU conjunction -9747 Jan 02 i 22:57 4°M46'56 -16°29'52 retrograde -9739 Apr 24 i 13:23 14°MJ30'21 minimum elong -9747 Jan 02 i 22:53 4°M46'56 16°30'09 min. Earth dist. -9739 Jul 15 i 03:40 13°M31'02 47.21099 AU max. Earth dist. -9747 Jan 05 i 03:36 4°ML50'04 48.21914 AU -9739 Jul 16 i 17:12 13°M29'12 -17°28'14 opposition -9747 Apr 16 j 11:42 6°M21'22 -9739 Oct 05 j 17:20 12°M29'08 retrograde direct -9747 Jul 06 j 16:43 5°M21'43 46.36796 AU min. Earth dist. -9747 Jul 08 j 16:56 -9738 Jan 12 j 17:16 13°ML58'02 -16°46'30 5°M-19'21 -17°13'37 conjunction opposition -9747 Sep 27 j 08:53 -9738 Jan 12 j 17:15 direct 4°M18'40 13°M58'02 16°46'50 minimum elong -9738 Jan 14 j 10:20 14°ML00'26 49.16641 AU max. Earth dist. 5°M49'08 -16°32'53 -9746 Jan 04 j 06:50 -9738 Mar 02 j 05:16 conjunction 15°M -9738 Apr 25 j 21:35 minimum elong -9746 Jan 04 j 06:46 5°ML49'07 16°33'10 15°M30'16 retrograde -9746 Jan 06 j 11:12 max. Earth dist. 5°M52'14 48.34263 AU -9738 Jun 20 j 03:52 15°RM 14°ML31'03 47.29915 AU -9746 Apr 17 j 15:50 7°M23'18 -9738 Jul 16 j 08:59 retrograde min. Earth dist. -9746 Jul 08 j 00:25 -9738 Jul 17 j 22:33 min. Earth dist. 6°M23'44 46.48976 AU opposition 14°M29'14 -17°28'41 -9746 Jul 09 j 23:14 -9738 Oct 06 j 20:51 opposition 6°M21'26 -17°16'30 direct 13°M29'14 -9746 Sep 28 j 18:36 direct 5°**™**20'52 conjunction -9737 Jan 14 j 00:04 14°M57'58 -16°46'51 conjunction -9745 Jan 05 j 14:32 6°M51'08 -16°35'36 minimum elong -9737 Jan 14 j 00:02 14°ML57'58 16°47'12 minimum elong -9745 Jan 05 j 14:28 6°ML51'08 16°35'54 -9737 Jan 15 j 10:58 15°M max. Earth dist. -9745 Jan 07 j 16:21 6°M54'05 48.46173 AU max. Earth dist. -9737 Jan 15 j 15:42 15°M00'16 49.25309 AU -9745 Apr 18 j 23:16 8°M25'04 -9737 Apr 27 j 04:38 16°M30'00 retrograde retrograde -9745 Jul 09 j 07:36 7°M25'36 46.60696 AU min. Earth dist. -9737 Jul 17 j 16:15 15°M30'48 47.38455 AU min. Earth dist. -9745 Jul 11 j 05:37 7°ML23'21 -17°19'04 -9737 Jul 19 j 04:06 15°M29'04 -17°28'48 opposition opposition -9745 Sep 30 j 01:09 6°M22'52 -9737 Aug 14 j 06:50 direct 15°RM direct -9737 Oct 08 i 01:56 14°M29'09 -9744 Jan 06 i 22:03 conjunction 7°M52'56 -16°38'02 -9737 Dec 01 i 05:29 15°M -9744 Jan 06 j 22:00 minimum elong 7°M52'56 16°38'19 -9744 Jan 08 j 23:06 15°ML57'45 -16°46'53 max. Earth dist. 7°ML55'50 48.57589 AU conjunction -9736 Jan 15 i 06:46 retrograde -9744 Apr 19 i 06:29 9°M26'38 minimum elong -9736 Jan 15 i 06:46 15°ML57'45 16°47'15 -9744 Jul 09 j 16:17 8°ML27'10 46.71897 AU max. Earth dist. -9736 Jan 16 j 22:21 16°ML00'02 49.33703 AU min. Earth dist. -9744 Jul 11 j 11:58 8°M25'02 -17°21'20 retrograde -9736 Apr 27 j 08:06 17°M29'34 opposition direct -9744 Sep 30 j 07:45 7°M24'39 -9736 Jul 17 j 22:23 16°ML30'27 47.46685 AU min. Earth dist. opposition -9736 Jul 19 j 09:27 16°M28'45 -17°28'37 -9736 Oct 08 j 10:05 conjunction -9743 Jan 07 j 05:37 8°M54'30 -16°40'11 direct 15°M28'54 minimum elong -9743 Jan 07 j 05:33 8°ML54'30 16°40'29 max. Earth dist. -9743 Jan 09 j 04:55 8°ML57'18 48.68505 AU conjunction -9735 Jan 15 j 13:25 16°M57'23 -16°46'38 -9735 Jan 15 j 13:24 -9743 Apr 20 j 15:02 16°M57'23 16°47'00 retrograde 10°M27′57 minimum elong -9743 Jul 10 j 22:53 -9735 Jan 17 j 02:41 16°M59'32 49.41784 AU min. Earth dist. 9°M28'33 46.82587 AU max. Earth dist. -9743 Jul 12 j 17:59 -9735 Apr 28 j 13:44 opposition 9°M26'27 -17°23'19 retrograde 18°**™**29'01 -9743 Oct 01 j 12:45 -9735 Jul 19 j 04:24 direct 8°M26'08 min. Earth dist. 17°M29'58 47.54586 AU opposition -9735 Jul 20 j 14:39 17°M28'19 -17°28'08 conjunction -9742 Jan 08 j 12:59 9°M55'48 -16°42'02 direct -9735 Oct 09 j 16:26 16°M28'33 minimum elong -9742 Jan 08 j 12:56 9°M55'48 16°42'21

max. Earth dist.

min. Earth dist.

retrograde

-9742 Jan 10 j 10:20

-9742 Apr 21 j 22:56

-9742 Jul 12 j 06:56

9°**ጤ**58'28 48.78916 AU

10°M29'35 46.92799 AU

11°ML28'59

conjunction

minimum elong

max. Earth dist.

-9734 Jan 16 j 20:14

-9734 Jan 16 j 20:15

-9734 Jan 18 j 09:01

17°M56'54 -16°46'06

17°M56'54 16°46'30

17°M59'02 49.49491 AU

•			•	/ /	r 9735 BCE in historical c		e 13
retrograde	-9734 Apr 29 j 18:35	19°M28'23	in astronomical co	direct	-9726 Oct 18 j 18:47		
min. Earth dist.	-9734 Apr 29 j 18.55		47.62068 AU	direct	-9/20 Oct 18 j 18.4/	23 1161/3/	
opposition	-9734 Jul 20 j 11:35	18°M27'48		conjunction	-9725 Jan 26 j 06:09	26°M44'57	16920145
direct	-9734 Oct 10 j 23:29	17°M28'07	-1/2/22	minimum elong	-9725 Jan 26 j 06:14	26°M44'57	
direct	-9734 Oct 10 j 23.29	1/ 1162807		max. Earth dist.	-9725 Jan 27 j 05:02		49.97845 AU
conjunction	-9733 Jan 18 j 02:58	18° <b>M</b> .56'20	16045!10		-9725 May 08 j 21:08	28°M14'55	49.97843 AU
conjunction minimum elong	•	18°M56'20		retrograde	-9725 Jul 30 j 15:47	28 IL14 33 27°M14'56	17900145
max. Earth dist.	-9733 Jan 18 j 02:58 -9733 Jan 19 j 13:52		49.56763 AU	opposition min. Earth dist.	-9725 Jul 29 j 18:45		48.08200 AU
retrograde	-9733 May 01 j 02:23	20°M27'38	49.30703 AU	direct	-9725 Oct 20 j 00:42	26°M15'32	46.06200 AU
•			47.69076 AU	direct	-9/23 Oct 20 J 00.42	20 1161332	
min. Earth dist.	-9733 Jul 21 j 17:31 -9733 Jul 23 j 00:59	19°11628'40 19°11627'09		conjunction	0724 Ion 27: 12:19	270m 42140	16926126
opposition	·	19 IIC2709	-1 / 20 21	minimum elong	-9724 Jan 27 j 12:18 -9724 Jan 27 j 12:21	27°M42'48 27°M42'48	
direct	-9733 Oct 12 j 03:31	10 1162/31		max. Earth dist.	-9724 Jan 28 j 10:53		50.01338 AU
· · · · · · · · · · · ·	0722 I 10:00-26	100 <b>m</b> 55120	1.6944115		3	27 11.44 03 29°M12'40	30.01338 AU
conjunction	-9732 Jan 19 j 09:36	19°M55'38		retrograde	-9724 May 09 j 00:55		17905119
minimum elong	-9732 Jan 19 j 09:37	19°M55'38		opposition	-9724 Jul 30 j 20:23	28°M12'45	
max. Earth dist.	-9732 Jan 20 j 18:31		49.63529 AU	min. Earth dist.	-9724 Jul 30 j 01:10		48.11477 AU
retrograde	-9732 May 01 j 11:19	21°M26'46	47.75560 AVI	direct	-9724 Oct 20 j 07:13	27°M13'25	
min. Earth dist.	-9732 Jul 22 j 01:02		47.75568 AU		0722 1 27:10.20	200 <b>m</b> 40127	1.6022111
opposition	-9732 Jul 23 j 06:13	20°M26'21	-1/°25'04	conjunction	-9723 Jan 27 j 18:20	28°M40'37	
direct	-9732 Oct 12 j 06:22	19° <b>™</b> 26'47		minimum elong	-9723 Jan 27 j 18:24	28°M40'38	16°23'39
		<b>m</b>		max. Earth dist.	-9723 Jan 28 j 15:22		50.04516 AU
conjunction	-9731 Jan 19 j 16:15	20°M54'45			-9723 Apr 08 j 18:44	0° <b>∡</b> 7	
minimum elong	-9731 Jan 19 j 16:16	20°M54'46		retrograde	-9723 May 10 j 07:53	0° <b>√</b> 10′24	
max. Earth dist.	-9731 Jan 21 j 00:17		49.69777 AU		-9723 Jun 11 j 01:02	30°RM	
retrograde	-9731 May 02 j 15:15	22°M25'42		min. Earth dist.	-9723 Jul 31 j 05:57		48.14403 AU
min. Earth dist.	-9731 Jul 23 j 07:16		47.81511 AU	opposition	-9723 Aug 01 j 00:51	29° <b>™</b> 10'35	-17°01'35
opposition	-9731 Jul 24 j 11:17	21°M25'22	-17°23'32	direct	-9723 Oct 21 j 10:51	28°M11'18	
direct	-9731 Oct 13 j 13:52	20°M25'49					
				conjunction	-9722 Jan 29 j 00:28	29°M38'28	
conjunction	-9730 Jan 20 j 22:48	21°M53'40		minimum elong	-9722 Jan 29 j 00:32	29°M38'29	
minimum elong	-9730 Jan 20 j 22:49	21°M53'40		max. Earth dist.	-9722 Jan 29 j 19:43		50.07302 AU
max. Earth dist.	-9730 Jan 22 j 04:07	21°M55'21	49.75493 AU		-9722 Feb 13 j 22:43	0° <b>∡</b>	
retrograde	-9730 May 03 j 19:11	23°M24'25		retrograde	-9722 May 11 j 16:47	1° <b>≯</b> 08'10	
opposition	-9730 Jul 25 j 16:10	22°M24'09	-17°21'45	opposition	-9722 Aug 02 j 05:19	0° <b>∡</b> °08′26	-16°57'37
min. Earth dist.	-9730 Jul 24 j 13:30	22°M25'25	47.86950 AU	min. Earth dist.	-9722 Aug 01 j 12:40	0° <b>∡</b> 09'14	48.16917 AU
direct	-9730 Oct 14 j 20:52	21°M24'37			-9722 Aug 09 j 14:38	30°RM	
				direct	-9722 Oct 22 j 12:30	29°M09'11	
conjunction	-9729 Jan 22 j 05:21	22°M52'20	-16°39'36		-9721 Jan 02 j 18:54	0° <b>∡</b>	
minimum elong	-9729 Jan 22 j 05:24	22°M52'20	16°40'01				
max. Earth dist.	-9729 Jan 23 j 10:04	22°M53'59	49.80719 AU	conjunction	-9721 Jan 30 j 06:45	0° <b>∡</b> ³36′21	-16°15'35
retrograde	-9729 May 04 j 23:03	24°M22'55		minimum elong	-9721 Jan 30 j 06:50	0° <b>∡</b> ³36′21	16°16'04
opposition	-9729 Jul 26 j 21:07	23°M22'41	-17°19'42	max. Earth dist.	-9721 Jan 31 j 01:14	0° <b>∡</b> ³37'24	50.09653 AU
min. Earth dist.	-9729 Jul 25 j 20:28	23°M23'52	47.91918 AU	retrograde	-9721 May 12 j 21:44	2° <b>∡</b> ¹05'57	
direct	-9729 Oct 16 j 04:17	22°M23'11		opposition	-9721 Aug 03 j 09:48	1° <b>≯</b> 06'18	-16°53'24
				min. Earth dist.	-9721 Aug 02 j 18:13	1° <b>∡</b> °07′02	48.18947 AU
conjunction	-9728 Jan 23 j 11:33	23°M50'46	-16°37'33	direct	-9721 Oct 23 j 17:57	0° <b>∡</b> ¹07'05	
minimum elong	-9728 Jan 23 j 11:34	23°M50'46	16°37'59				
max. Earth dist.	-9728 Jan 24 j 14:31	23°M52'19	49.85523 AU	conjunction	-9720 Jan 31 j 12:40	1° <b>∡</b> ³34'13	-16°11'26
retrograde	-9728 May 05 j 05:55	25°M21'11		minimum elong	-9720 Jan 31 j 12:45	1° <b>∡</b> ³34'13	16°11'53
min. Earth dist.	-9728 Jul 26 j 01:25	24°M22'10	47.96488 AU	max. Earth dist.	-9720 Feb 01 j 04:28	1° <b>∡</b> ³35′07	50.11499 AU
opposition	-9728 Jul 27 j 01:51	24°M21'00	-17°17'23	retrograde	-9720 May 13 j 01:45	3° <b>∡</b> °03'44	
direct	-9728 Oct 16 j 08:13	23°M21'30		opposition	-9720 Aug 03 j 14:19	2° <b>∡</b> °04′08	-16°48'57
				min. Earth dist.	-9720 Aug 03 j 00:10	2° <b>≯</b> 04'48	48.20462 AU
conjunction	-9727 Jan 23 j 17:47	24°M48'59	-16°35'14	direct	-9720 Oct 24 j 00:02	1° <b>х</b> 04′56	
minimum elong	-9727 Jan 23 j 17:50	24°M48'59	16°35'39				
max. Earth dist.	-9727 Jan 24 j 19:16	24°M50'26	49.89947 AU	conjunction	-9719 Jan 31 j 18:54	2° <b>∡</b> ³32′02	-16°07'03
retrograde	-9727 May 06 j 12:35	26°M19'14		minimum elong	-9719 Jan 31 j 18:59	2° <b>∡</b> °32′02	16°07'32
min. Earth dist.	-9727 Jul 27 j 08:07	25°M20'11	48.00709 AU	max. Earth dist.	-9719 Feb 01 j 09:48	2° <b>∡</b> ³32'53	50.12809 AU
iiiii. Eartii tiist.	-9/2/Jul 2/J 08.0/		17014147	retrograde	-9719 May 14 j 03:57	4° <b>∡</b> 01'27	
opposition	-9727 Jul 28 j 06:33	25°M19'06	-1/-144/	C			
	•	25°M19'06 24°M19'38	-1/144/	opposition	-9719 Aug 04 j 18:44	3° <b>∡</b> *01'54	-16°44'16
opposition	-9727 Jul 28 j 06:33		-1/-144/	-			-16°44'16 48.21424 AU
opposition	-9727 Jul 28 j 06:33			opposition	-9719 Aug 04 j 18:44		
opposition direct	-9727 Jul 28 j 06:33 -9727 Oct 17 j 12:01	24°M19'38	-16°32'38	opposition min. Earth dist.	-9719 Aug 04 j 18:44 -9719 Aug 04 j 06:49	3° <b>₹</b> 02'28	
opposition direct conjunction	-9727 Jul 28 j 06:33 -9727 Oct 17 j 12:01 -9726 Jan 25 j 00:08	24°M19'38 25°M47'02 25°M47'02	-16°32'38	opposition min. Earth dist.	-9719 Aug 04 j 18:44 -9719 Aug 04 j 06:49	3° <b>₹</b> 02'28	48.21424 AU
opposition direct conjunction minimum elong	-9727 Jul 28 j 06:33 -9727 Oct 17 j 12:01 -9726 Jan 25 j 00:08 -9726 Jan 25 j 00:10	24°M19'38 25°M47'02 25°M47'02	-16°32'38 16°33'04	opposition min. Earth dist. direct	-9719 Aug 04 j 18:44 -9719 Aug 04 j 06:49 -9719 Oct 25 j 08:21	3° <b>尽</b> 02'28 2° <b>尽</b> 02'42	48.21424 AU -16°02'26
opposition direct conjunction minimum elong max. Earth dist.	-9727 Jul 28 j 06:33 -9727 Oct 17 j 12:01 -9726 Jan 25 j 00:08 -9726 Jan 25 j 00:10 -9726 Jan 26 j 01:15	24°M.19'38 25°M.47'02 25°M.47'02 25°M.48'28	-16°32'38 16°33'04 49.94051 AU	opposition min. Earth dist. direct conjunction	-9719 Aug 04 j 18:44 -9719 Aug 04 j 06:49 -9719 Oct 25 j 08:21 -9718 Feb 02 j 01:04	3° ₹ 02'28 2° ₹ 02'42 3° ₹ 29'45 3° ₹ 29'45	48.21424 AU -16°02'26
opposition direct conjunction minimum elong max. Earth dist. retrograde	-9727 Jul 28 j 06:33 -9727 Oct 17 j 12:01 -9726 Jan 25 j 00:08 -9726 Jan 25 j 00:10 -9726 Jan 26 j 01:15 -9726 May 07 j 16:29	24°M19'38 25°M47'02 25°M47'02 25°M48'28 27°M17'07 26°M17'04	-16°32'38 16°33'04 49.94051 AU	opposition min. Earth dist. direct conjunction minimum elong	-9719 Aug 04 j 18:44 -9719 Aug 04 j 06:49 -9719 Oct 25 j 08:21 -9718 Feb 02 j 01:04 -9718 Feb 02 j 01:09	3° ₹ 02'28 2° ₹ 02'42 3° ₹ 29'45 3° ₹ 29'45	48.21424 AU -16°02'26 16°02'55

•	omena of Pluto fron		•	/ *		, ,	C 14
		-			9719 BCE in historical co		
opposition	-9718 Aug 05 j 23:04	3° <b>∡</b> ′59′32		conjunction	-9709 Feb 11 j 05:59	12° <b>∡</b> 04'07	
min. Earth dist.	-9718 Aug 05 j 11:41		48.21869 AU	minimum elong	-9709 Feb 11 j 06:07	12° <b>∡</b> *04'07	
direct	-9718 Oct 26 j 12:32	3° <b>∡</b> 00'19		max. Earth dist.	-9709 Feb 11 j 07:17		50.03556 AU
				retrograde	-9709 May 24 j 06:08	13° <b>≯</b> 32'54	
conjunction	-9717 Feb 03 j 07:01	4° <b>∡</b> °27'19	-15°57'36	opposition	-9709 Aug 14 j 12:54	12° <b>҂</b> 33'35	
minimum elong	-9717 Feb 03 j 07:07	4° <b>∡</b> °27'19	15°58'06	min. Earth dist.	-9709 Aug 14 j 13:09	12° <b>₹</b> 33'34	48.09337 AU
max. Earth dist.	-9717 Feb 03 j 17:55	4° <b>∡</b> ¹27'56	50.13872 AU	direct	-9709 Nov 04 j 08:54	11° <b>₹</b> 34'16	
retrograde	-9717 May 16 j 17:09	5° <b>х</b> 56'32					
opposition	-9717 Aug 07 j 03:25	4° <b>∡</b> °57′01	-16°34'11	conjunction	-9708 Feb 12 j 11:56	13° <b>渘</b> '01'19	-15°02'33
min. Earth dist.	-9717 Aug 06 j 18:23	4° <b>∡</b> 757′26	48.21845 AU	minimum elong	-9708 Feb 12 j 12:04	13° <b>₰</b> 01'19	15°03'06
direct	-9717 Oct 27 j 15:15	3° <b>∡</b> ¹57'46		max. Earth dist.	-9708 Feb 12 j 11:08	13° <b>∡</b> *01'16	50.00609 AU
				retrograde	-9708 May 24 j 11:53	14° <b>₰</b> ³30'05	
conjunction	-9716 Feb 04 j 13:02	5° <b>х</b> 24'43	-15°52'31	opposition	-9708 Aug 14 j 17:01	13° <b>∡</b> ³30'48	-15°35'54
minimum elong	-9716 Feb 04 j 13:09	5° <b>∡</b> ¹24'44	15°53'00	min. Earth dist.	-9708 Aug 14 j 17:57	13° <b>∡</b> ³30'45	48.06020 AU
max. Earth dist.	-9716 Feb 04 j 23:23	5° <b>∡</b> ¹25'18	50.13727 AU	direct	-9708 Nov 04 j 13:12	12° <b>∡</b> 31'28	
retrograde	-9716 May 16 j 21:46	6° <b>х</b> 53′50		evening set	-9707 Feb 11 j 03:53	13° <b>∡</b> 56′25	
opposition	-9716 Aug 07 j 07:35		-16°28'46		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
min. Earth dist.	-9716 Aug 06 j 23:12		48.21413 AU	conjunction	-9707 Feb 12 j 17:55	13° <b>₹</b> '58'34	-14°55'13
direct	-9716 Oct 27 j 20:52	4° <b>×</b> 755'03	40.21413 AU	minimum elong	-9707 Feb 12 j 17:33	13° 🖈 58'35	
uncet	-9/10 Oct 2/j 20.32	4 🗡 55 05		max. Earth dist.	-9707 Feb 12 j 15:07		49.97136 AU
aaniumatian	-9715 Feb 04 j 18:48	60.701150	-15°47'10	morning rise	3	14°×700'44	49.9/130 AU
conjunction	,			•	-9707 Feb 14 j 08:15		
minimum elong	-9715 Feb 04 j 18:54	6° <b>∡</b> 121'58		retrograde	-9707 May 25 j 19:16	15° 🗷 27'20	1.500.011.1
max. Earth dist.	-9715 Feb 05 j 02:44		50.13207 AU	opposition	-9707 Aug 15 j 21:23	14° <b>₹</b> 28'04	
retrograde	-9715 May 18 j 02:03	7° <b>∡</b> ′50′58		min. Earth dist.	-9707 Aug 16 j 00:47		48.02169 AU
opposition	-9715 Aug 08 j 11:49		-16°23'05	direct	-9707 Nov 05 j 15:29	13° <b>≯</b> 28'43	
min. Earth dist.	-9715 Aug 08 j 04:29		48.20640 AU	evening set	-9706 Feb 11 j 08:51	14° <b>≯</b> 52'17	
direct	-9715 Oct 29 j 02:31	5° <b>₹</b> 52'10					
				conjunction	-9706 Feb 14 j 00:05	14° <b>₹</b> 55'51	-14°47'40
conjunction	-9714 Feb 06 j 00:48	7° <b>∡</b> 19'04	-15°41'34	minimum elong	-9706 Feb 14 j 00:13	14° <b>₹</b> 55'52	14°48'12
minimum elong	-9714 Feb 06 j 00:55	7° <b>∡</b> 19'04	15°42'04	max. Earth dist.	-9706 Feb 13 j 20:18	14° <b>₹</b> 55'39	49.93144 AU
max. Earth dist.	-9714 Feb 06 j 08:28	7° <b>∡</b> 19'30	50.12358 AU	morning rise	-9706 Feb 16 j 15:38	14° <b>₹</b> 59'27	
retrograde	-9714 May 19 j 04:30	8° <b>∡</b> ¹48'00		retrograde	-9706 May 27 j 00:10	16° <b>∡</b> °24'37	
opposition	-9714 Aug 09 j 15:59	7° <b>∡</b> ¹48'30	-16°17'08	opposition	-9706 Aug 17 j 01:30	15° <b>≮</b> 25′20	-15°20'14
min. Earth dist.	-9714 Aug 09 j 10:20	7° <b>∡</b> ¹48'46	48.19547 AU	min. Earth dist.	-9706 Aug 17 j 05:49	15° <b>₹</b> 25'08	47.97795 AU
direct	-9714 Oct 30 j 09:30	6° <b>∡</b> ¹49'11		direct	-9706 Nov 06 j 20:59	14° <b>₹</b> ¹25'56	
				evening set	-9705 Feb 11 j 20:42	15° <b>∡</b> ¹48'33	
conjunction	-9713 Feb 07 j 06:37	8° <b>∡</b> 16′03	-15°35'43	•	· ·		
minimum elong	-9713 Feb 07 j 06:43	8° <b>∡</b> 16'04	15°36'13	conjunction	-9705 Feb 15 j 06:01	15° <b>х</b> 53′09	-14°39'52
max. Earth dist.	-9713 Feb 07 j 12:45	8° <b>√</b> 16'24	50.11227 AU	minimum elong	-9705 Feb 15 j 06:10	15° <b>∡</b> 53′09	14°40'24
retrograde	-9713 May 20 j 09:23	9° <b>∡</b> 744'56		max. Earth dist.	-9705 Feb 14 j 23:32		49.88655 AU
opposition	-9713 Aug 10 j 20:09	8° <b>×</b> 745'28	-16°10'55	morning rise	-9705 Feb 18 j 15:44	15° <b>∡</b> 757'45	
min. Earth dist.	-9713 Aug 10 j 14:32		48.18176 AU	retrograde	-9705 May 28 j 05:00	17° <b>₹</b> '21'53	
direct	-9713 Oct 31 j 14:26	7° <b>∡</b> ¹46'08	10.10170110	opposition	-9705 Aug 18 j 05:44	16° <b>₹</b> 22'36	-15°12'03
uncet	7715 Oct 51 j 14.20	7 7 40 00		min. Earth dist.	-9705 Aug 18 j 11:26		47.92963 AU
conjunction	-9712 Feb 08 j 12:15	0° <b>√</b> 13'01	-15°29'35	direct	-9705 Nov 08 j 02:13	15° × 22'20	47.92903710
minimum elong	-9712 Feb 08 j 12:13		15°30'06	evening set	-9704 Feb 12 j 11:31	16° <b>×</b> 44'58	
max. Earth dist.	-9712 Feb 08 j 17:00		50.09808 AU	evening set	-97041°C0 12 j 11.51	10 × 44 36	
retrograde	-9712 May 20 j 17:02	10° <b>×</b> <sup>7</sup> 41'51	30.09808 AU	conjunction	-9704 Feb 16 j 11:55	16° <b>∡</b> 750'25	1.402.115.1
opposition	, ,		-16°04'25	·	·		
11	-9712 Aug 11 j 00:26			minimum elong	-9704 Feb 16 j 12:03		14°32'24
min. Earth dist.	-9712 Aug 10 j 20:42		48.16515 AU	max. Earth dist.	-9704 Feb 16 j 05:00		49.83726 AU
direct	-9712 Oct 31 j 16:43	8° <b>∡</b> 743′05		morning rise	-9704 Feb 20 j 12:39	16° <b>₹</b> 55'52	
				retrograde	-9704 May 28 j 07:29	18° <b>∡</b> 19'09	
conjunction	-9711 Feb 08 j 18:10	10° <b>∡</b> ¹09'59		opposition	-9704 Aug 18 j 09:59	17° <b>∡</b> 19'51	
minimum elong	-9711 Feb 08 j 18:17	10° <b>∡</b> ¹09'59		min. Earth dist.	-9704 Aug 18 j 17:30		47.87709 AU
max. Earth dist.	-9711 Feb 08 j 22:32		50.08099 AU	direct	-9704 Nov 08 j 09:35	16° <b>≯</b> 20′21	
retrograde	-9711 May 21 j 22:41	11° <b>∡</b> ³38'47		evening set	-9703 Feb 12 j 04:17	17° <b>∡</b> ¹41'28	
opposition	-9711 Aug 12 j 04:28	10° <b>∡</b> "39′23					
min. Earth dist.	-9711 Aug 12 j 01:24	10° <b>∡</b> ³39'32	48.14524 AU	conjunction	-9703 Feb 16 j 17:52	17° <b>∡</b> ¹47'40	-14°23'34
direct	-9711 Nov 01 j 20:40	9° <b>х</b> 40′03		minimum elong	-9703 Feb 16 j 18:02	17° <b>∡</b> ¹47'40	14°24'07
				max. Earth dist.	-9703 Feb 16 j 09:14	17° <b>∡</b> ¹47'10	49.78422 AU
conjunction	-9710 Feb 10 j 00:02	11° <b>×</b> 707'00	-15°16'33	morning rise	-9703 Feb 21 j 07:50	17° <b>∡</b> ¹53'53	
minimum elong	-9710 Feb 10 j 00:10	11° <b>₹</b> 07'01	15°17'05	retrograde	-9703 May 29 j 12:03	19° <b>∡</b> 16′24	
max. Earth dist.	-9710 Feb 10 j 02:00	11° <b>∡</b> °07'07	50.06037 AU	opposition	-9703 Aug 19 j 14:00	18° <b>∡</b> 17′06	-14°54'54
retrograde	-9710 May 23 j 04:04	12° <b>∡</b> ³35'47		min. Earth dist.	-9703 Aug 19 j 21:46	18° <b>∡</b> 16'44	47.82105 AU
opposition	-9710 Aug 13 j 08:39	11° <b>∡</b> ³36′26	-15°50'38	direct	-9703 Nov 09 j 14:50	17° <b>∡</b> 17'32	
• •							
min. Earth dist.	-9710 Aug 13 j 06:59	11° <b>∡</b> ³36'31	48.12161 AU	evening set	-9702 Feb 12 j 22:12	18° <b>≯</b> 38'03	

direct

-9710 Nov 03 j 01:09 10°**₰** 37'07

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9702 in astronomical counting style is the year 9703 BCE in historical counting style. -9702 Feb 17 i 23:53 18°**₹**'44'55 -14°15'02 direct -9696 Nov 15 i 21:45 24°**х** 00′42 conjunction -9702 Feb 18 i 00:01 18°**₹**44'56 14°15'35 evening set -9695 Feb 16 j 22:12 25°**х** 18′13 minimum elong -9702 Feb 17 j 13:39 18°**✗¹**44'20 49.72777 AU max. Earth dist. -9702 Feb 23 j 01:57 -9695 Feb 24 j 18:53 25°**₹**28'56 -13°08'13 18° 27 51'49 conjunction morning rise -9695 Feb 24 j 19:03 -9702 May 30 j 19:27 20°**х** 13'41 25° **2**8'56 13°08'47 retrograde minimum elong -9702 Aug 20 j 18:20 19°**∡**14'22 -14°45'57 -9695 Feb 23 j 22:30 opposition max. Earth dist. 25°**尽**27'46 49.23999 AU -9695 Mar 04 j 16:03 min. Earth dist. -9702 Aug 21 j 04:03 19°**✗**13'54 47.76188 AU morning rise 25°×739'40 26°**₹**58'07 direct -9702 Nov 10 j 17:33 18°**х** 14'46 retrograde -9695 Jun 06 j 11:16 19°**∡**34'44 evening set -9701 Feb 13 j 17:03 opposition -9695 Aug 27 j 00:57 25°**∡**'58'45 -13°35'52 min. Earth dist. -9695 Aug 27 j 19:19 25°**✗**'57'53 47.25031 AU 19°**х** 42′14 -14°06′15 conjunction -9701 Feb 19 j 05:49 direct -9695 Nov 17 j 01:53 24°×758'49 -9701 Feb 19 j 06:00 -9694 Feb 17 j 20:39 minimum elong 19°**х** 42′14 14°06′48 evening set 26°×716'01 -9701 Feb 18 j 19:22 19°**∡**′41'38 49.66845 AU -9694 Feb 25 j 04:17 max. Earth dist. max. Earth dist. 26°**✗**25'59 49.15186 AU morning rise -9701 Feb 24 j 18:59 19°**∡**¹49'46 retrograde -9701 Jun 01 j 02:16 21°\$\square\$11'01 conjunction -9694 Feb 26 j 01:29 26°**₹**'27'12 -12°57'43 opposition -9701 Aug 21 j 22:33 20° ₹11'42 -14°36'43 minimum elong -9694 Feb 26 j 01:40 26°**х** 27′12 12°58'17 min. Earth dist. -9701 Aug 22 j 08:37 20°**✗**11'13 47.69977 AU morning rise -9694 Mar 06 j 06:38 26°**х** 38′24 direct -9701 Nov 11 j 20:30 19°**х** 12′03 retrograde -9694 Jun 07 j 14:39 27°**∡** 56′27 evening set -9700 Feb 14 j 12:30 20°**х** 31'31 opposition -9694 Aug 28 j 05:39 26°**₹**57'02 -13°24'53 min. Earth dist. -9694 Aug 29 j 01:58 26° ₹ 56'04 47.15806 AU conjunction -9700 Feb 20 j 11:43 20°**∡**<sup>1</sup>39'37 -13°57'12 direct -9694 Nov 18 j 09:42 25°**₹**57'01 minimum elong -9700 Feb 20 i 11:52 20°×39'38 13°57'46 evening set -9693 Feb 18 i 19:17 27°**х** 13′53 max. Earth dist. -9700 Feb 19 i 23:02 20° ₹38'54 49.60632 AU max. Earth dist. -9693 Feb 26 i 08:29 27° ₹24'11 49.05864 AU morning rise -9700 Feb 26 i 11:25 20°**х** 47'44 retrograde -9700 Jun 01 j 08:34 22°**х** 08′27 conjunction -9693 Feb 27 i 07:48 27° **2**5'31 -12°46'59 opposition -9700 Aug 22 j 02:47 21°×709'08 -14°27'12 -9693 Feb 27 i 07:58 27°**×** 25'31 12°47'34 minimum elong -9700 Aug 22 j 13:59 21°**₹**08'36 47.63494 AU -9693 Mar 07 j 20:43 27°**₹**37'10 min. Earth dist. morning rise -9700 Nov 12 j 00:13 20°**₹**09'27 -9693 Jun 08 j 18:47 direct retrograde 28° ×7 54'50 -9699 Feb 14 j 08:38 21°×28'29 -9693 Aug 29 j 10:11 27°**₹**55'22 -13°13'39 evening set opposition 27°**₹**54'22 47.06096 AU -9693 Aug 30 j 07:03 min. Earth dist. 21°**∡**'37'09 -13°47'54 -9699 Feb 20 j 17:51 -9693 Nov 19 j 15:57 conjunction 26° × 55'14 direct -9699 Feb 20 j 18:02 -9692 Feb 19 j 18:05 28°**∡**11'47 21°**х** 37'09 13°48'28 minimum elong evening set -9699 Feb 20 j 04:49 max. Earth dist. 21°**∡** 36'25 49.54124 AU -9699 Feb 27 j 03:28 21°**х** 45'50 -9692 Feb 28 j 14:15 28°**₹**'23'51 -12°36'01 morning rise conjunction -9699 Jun 02 j 10:00 23°**尽** 06'02 -9692 Feb 28 j 14:26 retrograde minimum elong 28° **2**3'52 12°36'35 -9699 Aug 23 j 07:10 22°**₹**06'43 -14°17'26 -9692 Feb 27 j 13:11 28°**尽**22'26 48.96071 AU opposition max. Earth dist. -9699 Aug 23 j 19:58 -9692 Mar 08 j 10:49 min. Earth dist. 22°**∡**06'07 47.56677 AU morning rise 28°**⋌**³35'58 direct -9699 Nov 13 j 08:34 21°**х** 07'01 retrograde -9692 Jun 09 j 00:49 29°**х** 53′16 -9698 Feb 15 j 05:26 22°**₹**25'38 opposition -9692 Aug 29 j 14:50 28°**₹**53'43 -13°02'10 evening set max. Earth dist. -9698 Feb 21 j 09:10 22°**尽**34'00 49.47275 AU min. Earth dist. -9692 Aug 30 j 13:56 28°**✗**52'37 46.95954 AU direct -9692 Nov 19 j 20:37 27°**₹**53'29 -9698 Feb 22 j 00:01 22°**∡**34'50 -13°38'20 -9691 Feb 19 j 17:15 29°**₹**09'45 conjunction evening set -9698 Feb 22 j 00:10 22°**∡**³34'51 minimum elong 13°38'53 -9698 Feb 28 j 19:01 22°**∡**¹44'04 -9691 Feb 28 j 20:49 29°**∡**122'15 -12°24'47 morning rise conjunction -9698 Jun 03 j 14:36 24°**₹**03'48 -9691 Feb 28 j 20:59 29°**∡**¹22'16 12°25'22 retrograde minimum elong 23°**×**<sup>7</sup>04'30 -14°07'25 -9691 Feb 27 i 19:13 29°**≯**20'47 48.85885 AU opposition -9698 Aug 24 i 11:23 max. Earth dist. 29°**х** 34'47 min. Earth dist. -9698 Aug 25 i 00:43 23°**✗**03'51 47.49490 AU morning rise -9691 Mar 10 i 00:36 direct -9698 Nov 14 i 14:24 22°**₹**04'45 -9691 Mar 29 i 05:16 0°궁 -9697 Feb 16 i 02:34 evening set 23°×22'59 retrograde -9691 Jun 10 i 07:46 0°る51'45 -9691 Aug 23 j 23:44 30°R*X* -9697 Feb 23 i 06:16 23°×732'43 -13°28'32 -9691 Aug 30 j 19:29 29° \$\square\$ 52'08 -12° 50'25 conjunction opposition -9697 Feb 23 i 06:27 23°×732'43 13°29'06 min. Earth dist. -9691 Aug 31 j 19:05 29° \$751'00 46.85431 AU minimum elong -9697 Feb 22 j 13:41 23°**∡**731'46 49.40006 AU direct -9691 Nov 21 j 00:42 28°×751'47 max. Earth dist. -9690 Feb 14 i 21:55 0°궁 morning rise -9697 Mar 02 j 10:24 23°**∡**¹42'28 retrograde -9697 Jun 04 j 22:15 25°**х** 01′46 evening set -9690 Feb 20 j 16:40 0°る07'48 -9697 Aug 25 j 15:57 opposition 24°×702'27 -13°57'08 max. Earth dist. -9690 Feb 28 j 23:22 0°る19'08 48.75343 AU min. Earth dist. -9697 Aug 26 j 07:42 24°**✗**'01'42 47.41858 AU -9697 Nov 15 j 16:56 23°×02'40 -9690 Mar 02 j 03:18 0°る20'43 -12°13'18 direct conjunction -9696 Feb 17 j 00:08 24°**х¹**20′32 -9690 Mar 02 j 03:30 0°る20'44 12°13'52 evening set minimum elong -9690 Mar 11 j 14:23 0°る33'41 morning rise -9696 Feb 24 j 12:31 24°**₹**30'45 -13°18'29 -9690 Jun 11 j 15:13 1°る50'19 conjunction retrograde minimum elong -9696 Feb 24 j 12:41 24°**尽**30'45 13°19'02 -9690 Sep 01 j 00:12 0°る50'39 -12°38'23 opposition max. Earth dist. -9696 Feb 23 j 19:02 24°**尽**29'45 49.32269 AU min. Earth dist. -9690 Sep 02 j 01:04 0°る49'27 46.74594 AU morning rise -9696 Mar 03 j 01:12 24°**х** 41'01 -9690 Oct 22 j 21:46 30°R.**✓** retrograde -9696 Jun 05 j 04:14 25°**₹**59'53 direct -9690 Nov 22 j 04:22 29° 🗷 50'11 -9696 Aug 25 j 20:27 25°**∡**100'33 -13°46'37 -9690 Dec 22 j 13:36 0°정 opposition

min. Earth dist.

-9696 Aug 26 j 12:59

24°**₹**′59'46 47.33711 AU

evening set

-9689 Feb 21 j 16:13

1°る05'58

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 16 Attention, astronomical year style is used: The year -9689 in astronomical counting style is the year 9690 BCE in historical counting style.

Attention, astronomi	cal year style is used: The	year -9689	in astronomical cou	inting style is the year	9690 BCE in historical co	ounting style.	
max. Earth dist.	-9689 Mar 02 j 05:46	1° <b>る</b> 17'42	48.64502 AU	min. Earth dist.	-9683 Sep 08 j 20:51	7°₹45'34	45.89531 AU
				direct	-9683 Nov 28 j 21:51	6° <b>ප</b> 46'05	
conjunction	-9689 Mar 03 j 09:58	1° <b>る</b> 19'19	-12°01'33	evening set	-9682 Feb 26 j 20:42	8° <b>ට</b> 00'50	
minimum elong	-9689 Mar 03 j 10:09	1° <b>る</b> 19'20	12°02'08	max. Earth dist.	-9682 Mar 08 j 20:00	8° <b>ප</b> 14'40	47.79130 AU
morning rise	-9689 Mar 13 j 03:54	1° <b>る</b> 32'41					
retrograde	-9689 Jun 12 j 18:14	2° <b>る</b> 49'02		conjunction	-9682 Mar 10 j 10:53	8° <b>ප</b> 16'56	
opposition	-9689 Sep 02 j 05:07	1° <b>る</b> 49'19	-12°26'05	minimum elong	-9682 Mar 10 j 11:05	8° <b>る</b> 16'57	10°32'29
min. Earth dist.	-9689 Sep 03 j 07:13		46.63463 AU	morning rise	-9682 Mar 22 j 01:04	8° <b>ප</b> 33'03	
direct	-9689 Nov 23 j 12:10	0° <b>ප</b> 48'46		retrograde	-9682 Jun 19 j 13:51	9° <b>ප</b> 47'56	
evening set	-9688 Feb 22 j 15:58	2° <b>る</b> 04'20		opposition	-9682 Sep 08 j 17:20	8° <b>る</b> 47'50	
max. Earth dist.	-9688 Mar 02 j 10:44	2° <b>る</b> 16'23	48.53397 AU	min. Earth dist.	-9682 Sep 10 j 04:51	8° <b>පි</b> 46'06	45.75597 AU
				direct	-9682 Nov 30 j 04:17	7° <b>る</b> 46'37	
conjunction	-9688 Mar 03 j 16:25	2° <b>る</b> 18'06	-11°49'32	evening set	-9681 Feb 27 j 22:26	9° <b>ට</b> 01'13	
minimum elong	-9688 Mar 03 j 16:37	2° <b>る</b> 18'06	11°50'06	max. Earth dist.	-9681 Mar 10 j 02:41	9° <b>る</b> 15'23	47.65118 AU
morning rise	-9688 Mar 13 j 17:12	2° <b>る</b> 31'52					
retrograde	-9688 Jun 12 j 22:48	3° <b>る</b> 47'57		conjunction	-9681 Mar 11 j 18:22	9° <b>る</b> 17'42	
opposition	-9688 Sep 02 j 09:57	2° <b>る</b> 48'11	-12°13'29	minimum elong	-9681 Mar 11 j 18:34	9° <b>ට</b> 17'42	10°18'39
min. Earth dist.	-9688 Sep 03 j 12:17	2° <b>る</b> 46'55	46.52066 AU	morning rise	-9681 Mar 23 j 14:08	9° <b>ට</b> 34'11	
direct	-9688 Nov 23 j 18:52	1° <b>る</b> 47'34		retrograde	-9681 Jun 20 j 21:53	10° <b>ප්</b> 48'52	
evening set	-9687 Feb 22 j 16:00	3° <b>る</b> 02'57		opposition	-9681 Sep 09 j 22:52	9° <b>ප</b> 48'40	-10°37'47
				min. Earth dist.	-9681 Sep 11 j 10:54	9° <b>ට</b> 46'55	45.61199 AU
conjunction	-9687 Mar 04 j 23:14	3°る17'07	-11°37'15	direct	-9681 Dec 01 j 08:57	8° <b>ප</b> 47'18	
minimum elong	-9687 Mar 04 j 23:24	3° <b>る</b> 17'08	11°37'49	evening set	-9680 Feb 29 j 00:12	10° <b>ට</b> 01'48	
max. Earth dist.	-9687 Mar 03 j 16:07	3° <b>る</b> 15'19	48.42001 AU	max. Earth dist.	-9680 Mar 10 j 07:27	10° <b>ප</b> 16'10	47.50662 AU
morning rise	-9687 Mar 15 j 06:41	3° <b>ප</b> 31'18					
retrograde	-9687 Jun 14 j 06:17	4° <b>る</b> 47'09		conjunction	-9680 Mar 12 j 01:40	10°る18'38	-10°03'59
opposition	-9687 Sep 03 j 14:54	3° <b>ප</b> 47'21	-12°00'37	minimum elong	-9680 Mar 12 j 01:51	10°る18'39	10°04'34
min. Earth dist.	-9687 Sep 04 j 19:21	3° <b>ප</b> 45'58	46.40370 AU	morning rise	-9680 Mar 24 j 03:09	10° <b>る</b> 35'29	
direct	-9687 Nov 24 j 22:29	2° <b>る</b> 46'39		retrograde	-9680 Jun 21 j 07:32	11°る50'01	
evening set	-9686 Feb 23 j 16:28	4° <b>ට</b> 01'53		opposition	-9680 Sep 10 j 04:31	10° <b>ප</b> 49'41	-10°23'02
max. Earth dist.	-9686 Mar 04 j 22:33		48.30298 AU	min. Earth dist.	-9680 Sep 11 j 18:14		45.46398 AU
	,			direct	-9680 Dec 01 j 12:04	9° <b>ප</b> 48'09	
conjunction	-9686 Mar 06 j 06:12	4° <b>る</b> 16'26	-11°24'41	evening set	-9679 Mar 01 j 02:16	11° <b>ට</b> 02'34	
minimum elong	-9686 Mar 06 j 06:24	4° <b>ප</b> 16'27	11°25'16	max. Earth dist.	-9679 Mar 11 j 14:49	11° <b>ට</b> 17'16	47.35821 AU
morning rise	-9686 Mar 16 j 20:00	4° <b>ට</b> 31'02			, , , , , , , , , , , , , , , , , , ,		
retrograde	-9686 Jun 15 j 13:13	5° <b>ප්</b> 46'40		conjunction	-9679 Mar 13 j 09:22	11° <b>ට</b> 19'46	-9°49'38
opposition	-9686 Sep 04 j 19:57	4° <b>ට</b> 46'49	-11°47'28	minimum elong	-9679 Mar 13 j 09:34	11° <b>ට</b> 19'47	
min. Earth dist.	-9686 Sep 06 j 00:49		46.28326 AU	morning rise	-9679 Mar 25 j 16:06	11° <b>ට</b> 36'58	
direct	-9686 Nov 26 j 02:58	3° <b>ප්</b> 46'03		retrograde	-9679 Jun 22 j 12:41	12°る51'20	
evening set	-9685 Feb 24 j 17:03	5° <b>ට</b> 01'08		opposition	-9679 Sep 11 j 10:13	11° <b>ට</b> 50'53	-10°08'00
max. Earth dist.	-9685 Mar 06 j 02:55		48.18211 AU	min. Earth dist.	-9679 Sep 13 j 01:10		45.31235 AU
				direct	-9679 Dec 02 j 20:08	10° <b>ට</b> 49'11	
conjunction	-9685 Mar 07 j 13:00	5° <b>ප</b> 16'06	-11°11'52	evening set	-9678 Mar 02 j 04:43	12° <b>ට</b> 03'32	
minimum elong	-9685 Mar 07 j 13:11	5° <b>ਰ</b> 16'06		max. Earth dist.	-9678 Mar 12 j 20:43		47.20663 AU
morning rise	-9685 Mar 18 j 09:15	5° <b>ට</b> 31'05			, , , , ,		
retrograde	-9685 Jun 16 j 21:54	6° <b>ප</b> 46'31		conjunction	-9678 Mar 14 j 16:59	12° <b>ට</b> 21'05	-9°35'00
opposition	-9685 Sep 06 j 01:08	5°₹46'38	-11°34'04	minimum elong	-9678 Mar 14 j 17:09	12° <b>る</b> 21'05	
min. Earth dist.	-9685 Sep 07 j 07:43		46.15881 AU	morning rise	-9678 Mar 27 j 05:05	12° <b>ට</b> 38'38	, 505.
direct	-9685 Nov 27 j 06:47	4° <b>ට</b> 45'46	10.12001110	retrograde	-9678 Jun 23 j 17:26	13° <b>ප</b> 52'51	
evening set	-9684 Feb 25 j 17:55	6° <b>ට</b> 00'44		opposition	-9678 Sep 12 j 16:02	12°る52'17	-9°52'40
max. Earth dist.	-9684 Mar 06 j 09:32		48.05681 AU	min. Earth dist.	-9678 Sep 14 j 07:22		45.15788 AU
max. Earth dist.	7004 Wai 00 j 07.32	0 01403	40.03001710	direct	-9678 Dec 04 j 04:52	11°る50'25	43.13700710
conjunction	-9684 Mar 07 j 20:14	6° <b>ප</b> 16'06	-10°58'48	evening set	-9677 Mar 03 j 07:04	13°る04'43	
minimum elong	-9684 Mar 07 j 20:25	6°පි16'06		max. Earth dist.	-9677 Mar 14 j 03:16		47.05221 AU
morning rise	-9684 Mar 18 j 22:29	6°る31'28	10 39 23	max. Earth dist.	-9077 Iviai 14 j 03.10	13 01930	47.03221 AU
retrograde	-9684 Jun 17 j 02:38	7°る46'42		conjunction	-9677 Mar 16 j 00:36	13° <b>る</b> 22'37	0°20'05
opposition	-9684 Sep 06 j 06:24	6°る46'46	-11°20'23	minimum elong	-9677 Mar 16 j 00:48	13° <b>3</b> 22'37	
min. Earth dist.	-9684 Sep 07 j 14:46		46.02956 AU	morning rise	-9677 Mar 28 j 17:47	13°る40'30	7 20 37
direct	-9684 Nov 27 j 14:54	5°る45'48	10.02/30 AU	retrograde	-9677 Jun 24 j 23:17	13 84030 14° <b>8</b> 54'37	
evening set	-9683 Feb 25 j 19:15	7°る00'39		opposition	-9677 Sep 13 j 22:09	14 85437 13° <b>8</b> 53'56	-9°37'03
max. Earth dist.	-9683 Mar 07 j 14:28		47.92668 AU	min. Earth dist.	-9677 Sep 15 j 22.09		45.00083 AU
max. Darui dist.	7005 Mai 0/ J 14.20	, 51414	11.72000 AU	direct	-9677 Dec 05 j 12:01	13 <b>3</b> 51 54	15.00005 AU
conjunction	-9683 Mar 09 j 03:28	7° <b>る</b> 16'23	-10°45'28	evening set	-9676 Mar 03 j 09:52	12° <b>る</b> 31°33	
minimum elong	-9683 Mar 09 j 03:40	7°る16'24	10°46'02	max. Earth dist.	-9676 Mar 14 j 10:43		46.89553 AU
morning rise	-9683 Mar 20 j 11:49	7°る1624 7°る32'08	10 4002	max. Darth UISt.	-2010 Wai 14 J 10.43	14 02142	то.03333 AU
•		7°632'08 8° <b>る</b> 47'11		conjunction	0676 Mar 16:00.27	14° <b>る</b> 24'25	0°04!52
retrograde	-9683 Jun 18 j 08:08		11006227	conjunction	-9676 Mar 16 j 08:27	14°る24'25 14°る24'25	
opposition	-9683 Sep 07 j 11:47	7° <b>る</b> 47'11	-11 002/	minimum elong	-9676 Mar 16 j 08:38	14 02423	9 03 21

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9676 in astronomical counting style is the year 9677 BCE in historical counting style. -9676 Mar 29 i 06:34 14°る42'38 conjunction -9669 Mar 24 i 20:35 21°る48'46 -7°10'33 morning rise -9676 Jun 25 j 06:34 15°**ප**56'41 -9669 Mar 24 j 20:45 21°₹48'46 7°11'07 retrograde minimum elong -9676 Sep 14 j 04:07 14°る55'54 -9°21'07 -9669 Apr 08 j 01:33 22°る09'17 opposition morning rise 14°る53'52 44.84145 AU -9669 Jul 03 j 18:32 23°る23'16 min. Earth dist. -9676 Sep 15 j 21:12 retrograde -9676 Dec 05 j 17:51 -9669 Sep 22 j 03:44 22°る21'40 -7°21'16 direct 13°**る**53'43 opposition -9669 Sep 24 j 06:14 evening set -9675 Mar 04 j 13:01 15°**る**07'58 min. Earth dist. 22°る19'08 43.62780 AU -9669 Dec 13 j 16:08 max. Earth dist. -9675 Mar 15 j 16:38 15°る23'43 46.73642 AU direct 21°**る**18'22 evening set -9668 Mar 10 j 19:54 22°る33'08 conjunction -9675 Mar 17 j 16:27 15°**る**26'33 -8°49'23 max. Earth dist. -9668 Mar 22 j 20:12 22°る50'30 45.51833 AU minimum elong -9675 Mar 17 j 16:38 15°**る**26'34 8°49'58 morning rise -9675 Mar 30 j 19:34 15°る45'08 conjunction -9668 Mar 25 j 05:48 22°る54'00 -6°53'06 -9675 Jun 26 j 16:44 16°る59'06 -9668 Mar 25 j 05:57 retrograde minimum elong 22°**る**54'01 6°53'39 -9668 Apr 08 j 14:45 23°る14'50 opposition -9675 Sep 15 j 10:25 15°**る**58'13 -9°04'53 morning rise min. Earth dist. -9675 Sep 17 j 05:05 15°る56'06 44.67962 AU retrograde -9668 Jul 04 j 02:51 24°る28'51 direct -9675 Dec 06 j 21:56 14°る55'54 opposition -9668 Sep 22 j 11:01 23°る27'06 -7°02'57 evening set -9674 Mar 05 j 16:23 16°**ප**10'11 min. Earth dist. -9668 Sep 24 j 14:25 23°る24'30 43.43740 AU max. Earth dist. -9674 Mar 17 j 00:49 16°**ට**26'15 46.57457 AU direct -9668 Dec 14 j 01:15 22°る23'34 evening set -9667 Mar 12 j 01:32 23°る38'28 conjunction -9674 Mar 19 j 00:45 16°る29'06 -8°33'37 max. Earth dist. -9667 Mar 24 j 04:37 23°る56'04 45.32730 AU minimum elong -9674 Mar 19 j 00:55 16°る29'07 8°34'11 morning rise -9674 Apr 01 j 08:23 16°**ප්**48'01 conjunction -9667 Mar 26 j 15:21 23°**ප**59'40 -6°35'21 retrograde -9674 Jun 28 i 00:23 18°る01'57 minimum elong -9667 Mar 26 j 15:30 23°**る**59'40 6°35'55 opposition -9674 Sep 16 i 16:51 17°**ප**00'58 -8°48'21 morning rise -9667 Apr 10 j 03:52 24°る20'48 min. Earth dist. -9674 Sep 18 i 12:40 16°る58'47 44.51473 AU retrograde -9667 Jul 05 i 09:35 25°る34'52 -9674 Dec 08 j 05:23 15°**る**58'31 opposition -9667 Sep 23 j 18:45 24°る32'57 -6°44'20 direct -9673 Mar 06 j 20:13 17°る12'51 -9667 Sep 26 j 00:05 24°る30'14 43.24350 AU min. Earth dist. evening set -9673 Mar 18 j 07:08 17°る29'08 46.40952 AU -9667 Dec 15 j 11:19 23°**る**29'12 max. Earth dist. direct -9666 Mar 13 j 07:32 24°る44'14 evening set -9673 Mar 20 j 09:04 17°**ප**32'06 -8°17'33 -9666 Mar 25 j 13:28 25°る02'05 45.13321 AU conjunction max. Earth dist. -9673 Mar 20 j 09:15 17°る32'07 8°18'08 minimum elong -9673 Apr 02 j 21:24 -9666 Mar 28 j 00:53 25°る05'44 -6°17'19 17°**る**51'21 conjunction morning rise -9673 Jun 29 j 08:50 minimum elong -9666 Mar 28 j 01:03 25°る05'44 6°17'52 19°**る**05'16 retrograde -9666 Apr 11 j 16:56 25°₹27'10 -9673 Sep 17 j 23:23 18°**る**04'11 -8°31'31 opposition morning rise -9673 Sep 19 j 19:52 18°る01'58 44.34640 AU -9666 Jul 06 j 17:35 26°₹41'20 min. Earth dist. retrograde -9673 Dec 09 j 12:23 17°**る**01'35 -9666 Sep 25 j 02:31 25°₹39'14 -6°25'24 direct opposition -9672 Mar 07 j 00:09 18°**る**15'59 -9666 Sep 27 j 07:46 evening set min. Earth dist. 25°る36'31 43.04680 AU -9672 Mar 18 j 14:18 18°る32'30 46.24044 AU max. Earth dist. direct -9666 Dec 16 j 19:49 24°**る**35'16 evening set -9665 Mar 14 j 13:51 25°る50'28 conjunction -9672 Mar 20 j 17:37 18°る35'35 -8°01'13 max. Earth dist. -9665 Mar 26 j 21:17 26°る08'29 44.93644 AU -9672 Mar 20 j 17:47 18°**ප**35'36 8°01'46 minimum elong morning rise -9672 Apr 03 j 10:19 18°**る**55'10 conjunction -9665 Mar 29 j 10:35 26°**ට**12'16 -5°59'00 -9672 Jun 29 j 14:53 20°**る**09'05 -9665 Mar 29 j 10:44 26°る12'16 5°59'33 retrograde minimum elong -9672 Sep 18 j 06:17 19°る07'53 -8°14'23 -9665 Apr 13 j 06:03 26°る34'00 opposition morning rise -9672 Sep 20 j 05:04 19°る05'33 44.17374 AU -9665 Jul 08 j 04:37 27°る48'16 min. Earth dist. retrograde -9672 Dec 09 j 20:42 18°る05'08 -9665 Sep 26 j 10:36 26° ₹ 46'00 -6°06'09 direct opposition -9665 Sep 28 i 17:31 26°る43'12 42.84785 AU evening set -9671 Mar 08 i 04:40 19°る19'37 min. Earth dist. max. Earth dist. -9671 Mar 19 j 22:09 19°る36'23 46.06690 AU direct -9665 Dec 18 i 01:36 25°る41'50 evening set -9664 Mar 14 j 20:20 26°る57'13 -9671 Mar 22 i 02:29 19°る39'32 -7°44'36 conjunction max. Earth dist. -9664 Mar 27 j 07:23 27°る15'31 44.73753 AU -9671 Mar 22 i 02:40 19°る39'33 7°45'10 minimum elong -9671 Apr 04 j 23:25 19°る59'26 -9664 Mar 29 j 20:31 27°₹19'18 -5°40'22 morning rise conjunction -9671 Jun 30 j 22:59 21°る13'22 -9664 Mar 29 i 20:40 27° 중19'19 5°40'54 retrograde minimum elong -9671 Sep 19 j 13:09 20°る12'03 -7°56'59 -9664 Apr 13 j 19:03 27°る41'20 opposition morning rise -9664 Jul 08 j 15:37 min. Earth dist. -9671 Sep 21 j 12:30 20°る09'41 43.99639 AU retrograde 28°る55'44 direct -9671 Dec 11 j 03:50 19°**る**09'08 opposition -9664 Sep 26 j 18:53 27°る53'18 -5°46'34 -9664 Sep 29 j 02:18 evening set -9670 Mar 09 j 09:34 20°る23'41 min. Earth dist. 27°る50'28 42.64669 AU -9664 Dec 18 j 09:07 max. Earth dist. -9670 Mar 21 j 04:28 20°る40'37 45.88853 AU direct 26°る48'55 -9663 Mar 16 j 03:30 28°る04'32 evening set -9670 Mar 23 j 11:30 20°る43'56 -7°27'43 -9663 Mar 28 j 15:33 28°る23'00 44.53652 AU conjunction max. Earth dist. -9670 Mar 23 j 11:40 20°る43'57 7°28'16 minimum elong 21°**る**04'09 -9663 Mar 31 j 06:39 28°る26'55 -5°21'26 morning rise -9670 Apr 06 j 12:39 conjunction retrograde -9670 Jul 02 j 10:27 22°る18'06 minimum elong -9663 Mar 31 j 06:47 28°**る**26'55 5°21'58 opposition -9670 Sep 20 j 20:23 21°**ට**16'39 -7°39'16 morning rise -9663 Apr 15 j 08:22 28°る49'14 min. Earth dist. -9670 Sep 22 j 21:45 21°る14'11 43.81437 AU -9663 Jun 22 j 04:35 0°≈ direct -9670 Dec 12 j 07:49 20°る13'33 retrograde -9663 Jul 10 j 03:55 0°≈03'48 -9669 Mar 10 j 14:27 21°る28'12 -9663 Jul 27 j 22:15 30°Ŗる evening set -9669 Mar 22 j 13:08 21°정45'24 45.70552 AU -9663 Sep 28 j 03:14 29°る01'11 -5°26'40 max. Earth dist. opposition

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9663 in astronomical counting style is the year 9664 BCE in historical counting style. -9663 Sep 30 j 11:20 28°る58'19 42.44348 AU conjunction -9656 Apr 08 j 13:24 6°≈38'33 -3°00'29 min. Earth dist. 6°≈38'34 3°01'00 -9663 Dec 19 j 16:34 27°る56'36 -9656 Apr 08 j 13:29 direct minimum elong -9662 Mar 17 j 10:57 29°る12'29 -9656 Apr 24 j 07:13 7°≈02'43 evening set morning rise -9656 Jul 18 j 06:16 max. Earth dist. -9662 Mar 30 j 01:30 29°る31'11 44.33309 AU 8° 22 18' 58 retrograde -9656 Oct 05 j 22:08 opposition 7°≈14'57 -2°58'21 29°る35'10 -5°02'11 -9656 Oct 08 j 14:24 conjunction -9662 Apr 01 j 17:11 min. Earth dist. 7°≈11'33 40.92564 AU -9656 Dec 27 j 15:09 minimum elong -9662 Apr 01 j 17:20 29°**る**35'10 5°02'43 direct 6°≈08'35 morning rise -9662 Apr 16 j 21:36 29°**る**57'45 evening set -9655 Mar 25 j 04:00 7°≈26'47 -9662 Apr 18 j 10:37 0°≈ max. Earth dist. -9655 Apr 07 j 00:23 7°≈46'32 42.80837 AU retrograde -9662 Jul 11 j 11:46 1°≈12'30 opposition -9662 Sep 29 j 12:07 0°≈09'45 -5°06'27 conjunction -9655 Apr 10 j 01:45 7°≈51'18 -2°39'10 -9662 Oct 01 j 21:55 -9655 Apr 10 j 01:49 min. Earth dist. 0°≈06'46 42.23769 AU minimum elong 7°≈51'18 2°39'38 -9662 Oct 07 j 10:00 -9655 Apr 25 j 21:03 30°Ŗる morning rise 8°≈15'41 -9655 Jul 19 j 16:32 direct -9662 Dec 21 j 03:13 29°る04'57 retrograde 9°≈32'16 -9661 Mar 03 j 20:24 0°≈ opposition -9655 Oct 07 j 08:45 8°≈27'59 -2°35'52 evening set -9661 Mar 18 j 18:44 0°≈21'07 min. Earth dist. -9655 Oct 10 j 03:02 8°≈24'28 40.69449 AU max. Earth dist. -9661 Mar 31 j 11:10 0°**≈**40'01 44.12695 AU direct -9655 Dec 29 j 01:57 7°≈21'19 evening set -9654 Mar 26 j 15:06 8°≈39'55 conjunction -9661 Apr 03 j 03:42 0°≈44'04 -4°42'39 max. Earth dist. -9654 Apr 08 j 13:04 8°≈59'53 42.57665 AU minimum elong -9661 Apr 03 j 03:49 0°≈44'05 4°43'11 morning rise -9661 Apr 18 j 10:52 1°≈06'57 conjunction -9654 Apr 11 j 14:21 9°≈04'40 -2°17'32 retrograde -9661 Jul 12 j 20:00 2°≈21'54 minimum elong -9654 Apr 11 i 14:25 9°≈04'40 2°18'01 opposition -9661 Sep 30 j 21:02 1°≈18'59 -4°45'54 -9654 Apr 27 i 10:55 9°≈29'17 morning rise min. Earth dist. -9661 Oct 03 i 07:05 1°≈15'59 42.02889 AU retrograde -9654 Jul 21 i 04:14 10°≈46'12 -9661 Dec 22 j 14:10 0°≈13'59 -9654 Oct 08 i 19:43 9°≈41'40 -2°13'04 direct opposition -9660 Mar 19 j 03:08 1°≈30'26 -9654 Oct 11 j 14:01 9°≈38'08 40.46117 AU min. Earth dist. evening set -9660 Mar 31 j 19:59 1°≈49'28 43.91725 AU -9654 Dec 30 j 12:43 8°≈34'41 max. Earth dist. direct -9653 Mar 28 j 02:36 9°≈53'44 evening set -9660 Apr 03 j 14:40 10°≈13'47 42.34298 AU conjunction 1°≈53'40 -4°22'49 max. Earth dist. -9653 Apr 09 j 23:45 -9660 Apr 03 j 14:48 1°≈53'41 4°23'20 minimum elong -9660 Apr 19 j 00:21 -9653 Apr 13 j 02:55 2°≈16'49 conjunction 10°≈18'43 -1°55'36 morning rise -9660 Jul 13 j 07:27 minimum elong 3°≈32'01 -9653 Apr 13 j 02:59 10°≈18'43 1°56'04 retrograde -9660 Oct 01 j 06:16 -9653 Apr 29 j 00:44 2°**≈**28'54 -4°25'02 10°≈43'33 opposition morning rise -9660 Oct 03 j 18:32 -9653 Jul 22 j 19:11 12°≈00'52 min. Earth dist. 2°≈25'47 41.81639 AU retrograde -9653 Oct 10 j 06:58 direct -9660 Dec 22 j 21:17 1°**≈**23'40 opposition 10°≈56'03 -1°49'56 -9653 Oct 13 j 02:16 evening set -9659 Mar 20 j 12:01 2°≈40'26 min. Earth dist. 10°≈52'28 40.22639 AU max. Earth dist. -9659 Apr 02 j 06:58 2°≈59'41 43.70359 AU direct -9653 Dec 31 j 21:00 9°**≈**48'47 evening set -9652 Mar 28 j 14:38 11°≈08'19 conjunction -9659 Apr 05 j 02:05 3°≈03'57 -4°02'41 max. Earth dist. -9652 Apr 10 j 13:06 11°≈28'34 42.10788 AU -9659 Apr 05 j 02:12 3°≈03'57 4°03'11 minimum elong -9659 Apr 20 j 13:59 3°≈27'21 conjunction -9652 Apr 13 j 16:06 11°≈33'31 -1°33'23 morning rise -9659 Jul 14 j 18:21 4°≈42'48 -9652 Apr 13 j 16:09 11°≈33'31 1°33'52 retrograde minimum elong -9659 Oct 02 j 15:53 3°≈39'30 -4°03'51 -9652 Apr 29 j 14:39 11°≈58'34 opposition morning rise -9659 Oct 05 j 04:51 -9652 Jul 23 j 07:54 min. Earth dist. 3°≈36'19 41.59965 AU retrograde 13°≈16'18 -9659 Dec 24 j 06:43 -9652 Oct 10 j 18:29 direct 2°≈34'00 opposition 12°≈11'15 -1°26'29 -9652 Oct 13 i 14:37 evening set -9658 Mar 21 i 21:26 3°≈51'06 min. Earth dist. 12°≈07'36 39.99033 AU max. Earth dist. -9658 Apr 03 i 15:59 4°≈10'26 43.48562 AU direct -9651 Jan 01 i 08:59 11°≈03'41 evening set -9651 Mar 30 i 03:27 12°≈23'46 conjunction -9658 Apr 06 i 13:33 4°≈14'52 -3°42'15 max. Earth dist. -9651 Apr 12 j 01:26 12°≈44'07 41.87174 AU -9658 Apr 06 i 13:39 4°≈14'52 3°42'46 minimum elong -9658 Apr 22 j 03:42 4°≈38'32 -9651 Apr 15 i 05:32 12°≈49'10 -1°10'52 morning rise conjunction -9658 Jul 16 j 08:08 5°≈54'14 -9651 Apr 15 i 05:34 12°≈49'10 1°11'19 retrograde minimum elong -9658 Oct 04 j 01:43 4°≈50'42 -3°42'20 -9651 May 01 j 04:53 13°≈14'25 opposition morning rise 4°≈47'27 41.37879 AU -9651 Jul 24 j 21:35 min. Earth dist. -9658 Oct 06 j 16:04 retrograde 14°≈32'37 -9658 Dec 25 j 15:15 3°2244'57 opposition -9651 Oct 12 j 06:22 13°≈27'20 -1°02'42 direct -9657 Mar 23 j 07:08 5°≈02'23 min. Earth dist. -9651 Oct 15 j 02:32 13°≈23'39 39.75331 AU evening set max. Earth dist. -9657 Apr 05 j 03:09 5°≈21'55 43.26344 AU -9650 Jan 02 j 22:18 12°≈19'28 direct -9650 Mar 31 j 16:40 evening set 13°≈40'08 -9657 Apr 08 j 01:28 -9650 Apr 13 j 14:19 conjunction 5°≈26'25 -3°21'31 max. Earth dist. 14°≈00'36 41.63426 AU -9657 Apr 08 j 01:33 minimum elong 5°≈26'25 3°22'01 -9650 Apr 16 j 19:20 morning rise -9657 Apr 23 j 17:23 5°≈50'19 conjunction 14°≈05'45 -0°48'03 retrograde -9657 Jul 17 j 19:15 7°≈06'18 minimum elong -9650 Apr 16 j 19:21 14°**≈**05'45 0°48'31 opposition -9657 Oct 05 j 11:52 6°≈02'32 -3°20'30 morning rise -9650 May 02 j 18:58 14°≈31'12 min. Earth dist. -9657 Oct 08 j 03:55 5°≈59'10 41.15392 AU -9650 May 22 j 05:05 15°≈ -9657 Dec 27 j 03:14 4°≈56'29 retrograde -9650 Jul 26 j 10:27 15°≈49'55 -9656 Mar 23 j 17:17 -9650 Oct 01 j 15:21 15°R≈ evening set -9650 Oct 13 j 18:45 14°≈44'23 -0°38'37 max. Earth dist. -9656 Apr 05 j 13:42 6°≈33'56 43.03760 AU opposition

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9650 in astronomical counting style is the year 9651 BCE in historical counting style. opposition -9650 Oct 16 j 16:36 14°≈40'36 39.51497 AU -9644 Oct 21 i 05:08 22°**≈**48'41 1°52'30 min. Earth dist. -9649 Jan 04 j 11:03 -9644 Oct 24 j 07:43 22°≈44'31 38.03555 AU direct 13°≈36'15 min. Earth dist. -9649 Apr 02 j 06:33 -9643 Jan 11 j 19:51 14°≈57'32 direct 21° 238'33 evening set 23°≈04'13 -9649 Apr 03 j 20:13 -9643 Apr 10 j 08:18 15°≈ evening set max. Earth dist. max. Earth dist. -9649 Apr 15 j 04:23 -9643 Apr 22 j 19:02 15°≈18'09 41.39533 AU 23°≈24'59 39.90724 AU -9649 Apr 18 j 09:30 conjunction 15°≈23'20 -0°24'57 conjunction -9643 Apr 26 j 07:04 23°**≈**30'54 1°59'33 -9649 Apr 18 j 09:30 minimum elong 15°≈23'20 0°25'24 minimum elong -9643 Apr 26 j 07:00 23°**≈**30'54 1°59'09 -9649 May 04 j 09:21 morning rise 15°≈48'59 morning rise -9643 May 12 j 02:22 23°≈57'23 retrograde -9649 Jul 27 j 23:33 17°≈08'14 retrograde -9643 Aug 04 j 23:15 25°≈20'32 opposition -9649 Oct 15 j 07:20 16°≈02'29 -0°14'12 opposition -9643 Oct 22 j 20:27 24°**≈**12'59 2°18'43 -9643 Oct 26 j 00:44 min. Earth dist. -9649 Oct 18 j 05:04 15°≈58'41 39.27493 AU min. Earth dist. 24°≈08'42 37.78099 AU -9642 Jan 13 j 09:48 -9649 Dec 14 j 17:21 15°R≈ direct 23°≈02'27 direct -9648 Jan 05 j 23:43 14°≈54'03 evening set -9642 Apr 12 j 02:54 24°≈28'57 -9648 Jan 27 j 23:25 15°≈ max. Earth dist. -9642 Apr 24 j 12:29 24°≈49'47 39.65152 AU evening set -9648 Apr 02 j 21:07 16°≈16'00 max. Earth dist. -9648 Apr 15 j 16:53 16°≈36'37 41.15422 AU conjunction -9642 Apr 28 j 00:01 24°≈55'43 2°24'33 minimum elong -9642 Apr 27 j 23:56 24°≈55'43 2°24'10 conjunction -9648 Apr 18 j 24:00 16°≈41'59 -0°01'36 morning rise -9642 May 13 j 17:26 25°≈22'17 minimum elong -9648 Apr 18 j 24:00 16°≈41'59 0°02'03 retrograde -9642 Aug 06 j 14:58 26°≈46'13 behind sun begin -9648 Apr 18 j 17:29 16°≈41'34 opposition -9642 Oct 24 j 12:12 25°≈38'18 2°45'12 behind sun end -9648 Apr 19 i 06:30 16°≈42'24 min. Earth dist. -9642 Oct 27 i 16:17 25°≈34'00 37.52548 AU -9650 Jul 26 j 10:27 15°≈49'55 direct -9641 Jan 15 i 01:47 24°≈27'23 retrograde -9650 Jul 26 i 10:27 15°≈49'55 evening set -9641 Apr 13 i 22:25 25°≈54'45 direct -9648 May 04 j 23:51 17°≈07'49 max. Earth dist. -9641 Apr 26 j 04:20 26°≈15'31 39.39516 AU morning rise -9648 May 13 j 01:12 17°≈20'21 asc. node -9648 Jul 28 j 15:39 -9641 Apr 29 j 17:19 18°≈27'39 conjunction 26°\21'36 2°49'46 retrograde -9648 Oct 15 j 20:28 -9641 Apr 29 j 17:13 17°≈21'38 0°10'32 minimum elong 26°≈≈21'35 2°49'23 opposition -9641 May 15 j 08:46 min. Earth dist. -9648 Oct 18 j 19:55 17°≈17'44 39.03257 AU 26°≈48'13 morning rise -9647 Jan 06 j 09:55 retrograde -9641 Aug 08 j 10:45 16°≈12'55 28°≈12'58 direct -9641 Oct 26 j 04:18 -9647 Apr 04 j 12:22 17°≈35'32 27°≈04'42 3°11'56 evening set opposition -9647 Apr 17 j 08:00 -9641 Oct 29 j 08:57 max. Earth dist. 17°≈56'18 40.91037 AU min. Earth dist. 27°≈00'21 37.26992 AU -9640 Jan 16 j 14:51 direct 25°≈53'22 -9647 Apr 20 j 15:07 18°≈01'42 0°22'09 -9640 Apr 14 j 18:32 conjunction evening set 27°≈21'42 -9647 Apr 20 j 15:06 -9640 Apr 26 j 22:44 minimum elong 18°≈01'42 0°21'44 max. Earth dist. 27°≈42'30 39.13874 AU -9647 May 06 j 14:28 morning rise 18°**≈**27'41 -9647 Jul 30 j 07:52 -9640 Apr 30 j 11:13 retrograde 19°**≈**48′09 conjunction 27°≈48'35 3°15'12 -9647 Oct 17 j 10:03 18°≈41'51 0°35'34 minimum elong -9640 Apr 30 j 11:06 27°**≈**48'35 3°14'51 opposition -9647 Oct 20 j 10:22 18°≈37'53 38.78732 AU morning rise -9640 May 16 j 00:04 28°≈15'16 min. Earth dist. -9646 Jan 07 j 22:20 17°≈32'49 -9640 Aug 09 j 05:28 29°≈40'53 direct retrograde -9646 Apr 06 j 04:26 18°≈56'10 -9640 Oct 26 j 21:07 28°≈32'15 3°38'55 evening set opposition -9646 Apr 18 j 21:26 19°≈16'54 40.66361 AU -9640 Oct 30 j 02:25 28°≈27'51 37.01453 AU max. Earth dist. min. Earth dist. -9639 Jan 17 j 06:47 27°≈20'32 direct -9646 Apr 22 j 06:29 19°≈22'28 0°46'06 conjunction evening set -9639 Apr 16 j 15:44 28°≈49'53 -9646 Apr 22 j 06:27 19°**≈**22'28 minimum elong 0°45'41 max. Earth dist. -9639 Apr 28 j 16:25 29°≈10'37 38.88276 AU -9646 May 08 i 05:22 morning rise 19°≈48'36 -9639 May 02 i 05:29 retrograde -9646 Aug 01 i 01:39 21°≈09'42 conjunction 29°≈16'48 3°40'51 opposition -9646 Oct 19 i 00:01 20°≈03'07 1°00'55 minimum elong -9639 May 02 j 05:21 29°≈16'47 3°40'29 min. Earth dist. -9646 Oct 22 i 00:58 19°≈59'06 38.53931 AU morning rise -9639 May 17 i 15:41 29°≈43'29 direct -9645 Jan 09 i 10:35 18°≈53'44 -9639 May 27 j 13:40 0°**₩** -9645 Apr 07 j 20:51 20°≈17'49 -9639 Aug 11 j 01:19 1°\ 10'02 evening set retrograde max. Earth dist. -9645 Apr 20 j 12:25 20°≈38'37 40.41386 AU -9639 Oct 28 j 14:16 0°\mathbf{H}01'04 4°06'08 opposition -9639 Oct 29 j 08:59 30°R≈ conjunction -9645 Apr 23 j 22:13 20°≈44'17 1°10'19 min. Earth dist. -9639 Oct 31 j 19:04 29°≈56'40 36.75982 AU minimum elong -9645 Apr 23 j 22:11 20°≈44'16 1°09'54 direct -9638 Jan 18 j 23:52 28°≈48'58 -9645 May 09 j 20:05 21°≈10'32 -9638 Apr 06 j 22:35 0°**)**€ morning rise 0°**)** 19′23 -9645 Aug 02 j 16:18 22°**≈**32'18 evening set -9638 Apr 18 j 13:42 retrograde -9645 Oct 20 j 14:31 -9638 Apr 30 j 10:49 0° **★**40'03 38.62717 AU opposition 21°≈25'24 1°26'34 max. Earth dist. min. Earth dist. -9645 Oct 23 j 17:08 21°**≈**21'16 38.28852 AU -9638 May 04 j 00:25 0°\ 46'19 4°06'41 direct -9644 Jan 11 j 02:55 20°≈15'39 conjunction evening set -9644 Apr 08 j 14:12 21°≈40'31 minimum elong -9638 May 04 j 00:16 0°**)**46'18 4°06'21 max. Earth dist. -9644 Apr 21 j 04:01 22°≈01'20 40.16163 AU morning rise -9638 May 19 j 07:21 1°**)** 13'01 retrograde -9638 Aug 12 j 20:02 2°**)**40'33 conjunction -9644 Apr 24 j 14:25 22°≈07'05 1°34'49 opposition -9638 Oct 30 j 08:12 1°**X**31'15 4°33'33 min. Earth dist. minimum elong -9644 Apr 24 j 14:21 22°≈07'05 1°34'24 -9638 Nov 02 j 14:14 1° **★**26'45 36.50562 AU -9644 May 10 j 11:12 22°≈33'28 -9637 Jan 20 j 18:04 0° **)** 18'48 morning rise -9644 Aug 03 j 07:13 -9637 Apr 20 j 12:27 1°**X**50'19 retrograde 23°≈55'54 evening set

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 20 Attention, astronomical year style is used: The year -9637 in astronomical counting style is the year 9638 BCE in historical counting style.

Attention, astronomi	cal year style is used: Th	e year -9637 i	n astronomical cou	inting style is the year	9638 BCE in historical co	ounting style.	
max. Earth dist.	-9637 May 02 j 06:38	2° <b>升</b> 10′57	38.37197 AU	min. Earth dist.	-9631 Nov 13 j 15:54	12° <b>)</b> 40′02	34.71459 AU
				direct	-9630 Jan 31 j 10:25	11° <b>∺</b> 29'35	
conjunction	-9637 May 05 j 19:40	2° <b>升</b> 17'14	4°32'41	evening set	-9630 May 03 j 09:37	13° <b>)</b> 10′38	
minimum elong	-9637 May 05 j 19:30	2° <b>升</b> 17'14	4°32'21	max. Earth dist.	-9630 May 13 j 12:32	13° <b>)</b> €29'37	36.56746 AU
morning rise	-9637 May 20 j 23:08	2° <b>)</b> 43′55					
retrograde	-9637 Aug 14 j 14:56	4° <b>)</b> 12'31		conjunction	-9630 May 17 j 04:14	13° <b>)</b> ₹36′32	7°38'12
opposition	-9637 Nov 01 j 02:34	3° <b>)</b> €02'53	5°01'10	minimum elong	-9630 May 17 j 03:56	13° <b>∺</b> 36'31	7°37'59
min. Earth dist.	-9637 Nov 04 j 08:04		36.25158 AU	morning rise	-9630 May 30 j 19:14	14° <b>∺</b> 02'11	
direct	-9636 Jan 22 j 12:52	1° <b>¥</b> 50′03		retrograde	-9630 Aug 26 j 05:48	15° <b>)</b> 39'44	
evening set	-9636 Apr 21 j 12:25	3° <b>)</b> 22′47		opposition	-9630 Nov 12 j 05:32	14° <b>)</b> €27'24	
max. Earth dist.	-9636 May 03 j 01:09	3° <b>)</b> 43′12	38.11644 AU	min. Earth dist.	-9630 Nov 15 j 13:58	14° <b>)</b> 22′32	34.45853 AU
				direct	-9629 Feb 02 j 09:28	13° <b>米</b> 11′35	
conjunction	-9636 May 06 j 15:40	3° <b>)</b> 49′39		evening set	-9629 May 05 j 16:45	14° <b>) ₹</b> 54'14	
minimum elong	-9636 May 06 j 15:29	3° <b>)</b> 49′38	4°58'33	max. Earth dist.	-9629 May 15 j 11:41	15° <b>)</b> 12'46	36.30994 AU
morning rise	-9636 May 21 j 15:16	4° <b>∺</b> 16'17					
retrograde	-9636 Aug 15 j 12:03	5° <b>)</b> 46′00		conjunction	-9629 May 19 j 04:09	15° <b>米</b> 19′50	8°04'54
opposition	-9636 Nov 01 j 21:29	4° <b>)</b> (36′02	5°28'58	minimum elong	-9629 May 19 j 03:51	15° <b>)</b> 19'48	8°04'41
min. Earth dist.	-9636 Nov 05 j 04:23	4° <b>)</b> 31′26	35.99722 AU	morning rise	-9629 Jun 01 j 12:11	15° <b>)</b> 45′11	
direct	-9635 Jan 23 j 04:59	3° <b>)</b> 22′49		retrograde	-9629 Aug 28 j 06:31	17° <b>∺</b> 24'16	
evening set	-9635 Apr 23 j 13:22	4° <b>) €</b> 56'47		opposition	-9629 Nov 14 j 05:12	16° <b>∺</b> 11'30	8°46'53
max. Earth dist.	-9635 May 04 j 22:24	5° <b>升</b> 17′07	37.86018 AU	min. Earth dist.	-9629 Nov 17 j 14:07	16° <b>)</b> €06'34	34.20434 AU
				direct	-9628 Feb 04 j 06:26	14° <b>)</b> ₹55'13	
conjunction	-9635 May 08 j 12:24	5° <b>)</b> €23'35	5°25'10	evening set	-9628 May 07 j 01:08	16° <b>)</b> 39′33	
minimum elong	-9635 May 08 j 12:12	5° <b>)</b> €23'34	5°24'51	max. Earth dist.	-9628 May 16 j 13:55	16° <b>)</b> 57'46	36.05444 AU
morning rise	-9635 May 23 j 07:33	5° <b>¥</b> 50′09					
retrograde	-9635 Aug 17 j 08:38	7° <b>)</b> 21′02		conjunction	-9628 May 20 j 04:57	17° <b>)</b> 04'47	8°31'31
opposition	-9635 Nov 03 j 17:17	6° <b>)</b> 10′43	5°56'56	minimum elong	-9628 May 20 j 04:38	17° <b>)</b> €04'45	8°31'20
min. Earth dist.	-9635 Nov 07 j 00:25		35.74198 AU	morning rise	-9628 Jun 02 j 05:12	17° <b>¥</b> 29'47	
direct	-9634 Jan 24 j 23:51	4° <b>)</b> 57′07		retrograde	-9628 Aug 29 j 07:11	19° <b>)</b> 10′28	
evening set	-9634 Apr 25 j 15:21	6° <b>)</b> 32′23		opposition	-9628 Nov 15 j 05:37	17° <b>¥</b> 57'17	9°15'13
max. Earth dist.	-9634 May 06 j 18:01		37.60292 AU	min. Earth dist.	-9628 Nov 18 j 14:05		33.95256 AU
	,,,,,,	• /(		direct	-9627 Feb 05 j 05:03	16° <b>)</b> (40′33	
conjunction	-9634 May 10 j 09:27	6° <b>)</b> 59'05	5°51'37	evening set	-9627 May 09 j 10:58	18° <b>¥</b> 26'39	
minimum elong	-9634 May 10 j 09:14	6° <b>)</b> 59'04		max. Earth dist.	-9627 May 18 j 14:57		35.80173 AU
morning rise	-9634 May 25 j 00:01	7° <b>)</b> €25'32	0 0120	man. Bartin diot.	>02/ 1/14y 10 j 1 1.0/	10 /( 22	50.00175110
retrograde	-9634 Aug 19 j 08:55	8° <b>)</b> 57'38		conjunction	-9627 May 22 j 06:20	18° <b>¥</b> 51'28	8°58'01
opposition	-9634 Nov 05 j 13:37	7° <b>)</b> 46′57	6°25'03	minimum elong	-9627 May 22 j 05:59	18° <b>¥</b> 51'27	
min. Earth dist.	-9634 Nov 08 j 21:05		35.48591 AU	morning rise	-9627 Jun 03 j 22:32	19° <b>¥</b> 16'04	0 37 30
direct	-9633 Jan 26 j 17:52	6° <b>)</b> 32′56	33.40371710	retrograde	-9627 Aug 31 j 11:18	20° <b>¥</b> 58′28	
evening set	-9633 Apr 27 j 18:16	8° <b>\</b> 09'34		opposition	-9627 Nov 17 j 06:49	19° <b>)</b> 44'51	9°43'26
max. Earth dist.	-9633 May 08 j 15:57		37.34457 AU	min. Earth dist.	-9627 Nov 20 j 14:29		33.70399 AU
max. Larm dist.	-7033 Way 00 j 13.37	0 1(2)23	31.34431 AO	direct	-9626 Feb 07 j 02:55	18° <b>H</b> 27'40	33.70377 AC
conjunction	-9633 May 12 j 07:21	8° <b>₩</b> 36'07	6°18'10	evening set	-9626 May 11 j 21:44	20°\(\frac{15'39}{20'}\)	
minimum elong	-9633 May 12 j 07:27	8° <b>H</b> 36'06	6°17'53	max. Earth dist.	-9626 May 20 j 18:07		35.55208 AU
morning rise	-9633 May 26 j 16:35	9° <b>H</b> 02'25	0 17 33	max. Earth dist.	-9020 May 20 J 16.07	20 1 32 30	33.33206 AU
retrograde		10°\dagger 35'48		aaniumatian	0626 May 24 : 09:25	20° <b>∺</b> 40′00	9°24'23
Č	-9633 Aug 21 j 07:27	9° <b>H</b> 24'44	6°53'18	conjunction	-9626 May 24 j 08:25	20° <del>X</del> 39'58	9°24'13
opposition min. Earth dist.	-9633 Nov 07 j 10:37		35.22897 AU	minimum elong morning rise	-9626 May 24 j 08:03	20 <b>X</b> 39 38 21° <b>X</b> 04'08	9 24 13
	-9633 Nov 10 j 19:14	8° <b>H</b> 10'17	33.22897 AU	•	-9626 Jun 05 j 15:44	21 <b>X</b> 04 08 22° <b>X</b> 48'21	
direct	-9632 Jan 28 j 13:43	9° <b>\(\)</b> 48'19		retrograde	-9626 Sep 02 j 14:57 -9626 Nov 19 j 08:57		10011120
evening set	-9632 Apr 28 j 22:22		27.00560 AII	opposition	•	21° <b>)</b> 34'19	10°11'29
max. Earth dist.	-9632 May 09 j 13:53	10°π0/34	37.08560 AU	min. Earth dist.	-9626 Nov 22 j 16:48		33.45862 AU
	0.622.34 12:05.42	1001/14/42	6044140	direct	-9625 Feb 09 j 03:46	20° <b>)</b> 16'43	
conjunction	-9632 May 13 j 05:42	10° <b>)</b> 14'42	6°44'48	evening set	-9625 May 14 j 10:08	22° <b>₭</b> 06'38	
minimum elong	-9632 May 13 j 05:27	10° <b>)</b> 14'41	6°44'33	max. Earth dist.	-9625 May 22 j 21:37	22° <b>H</b> 23'23	35.30573 AU
morning rise	-9632 May 27 j 09:28	10° <b>)</b> (40′50					
retrograde	-9632 Aug 22 j 07:10	12° <b> ★</b> 15'32		conjunction	-9625 May 26 j 11:11	22° <b>₩</b> 30'28	9°50'32
opposition	-9632 Nov 08 j 08:10	11° <b>米</b> 04′03	7°21'38	minimum elong	-9625 May 26 j 10:49	22° <b>₭</b> 30′26	9°50'22
min. Earth dist.	-9632 Nov 11 j 16:19		34.97168 AU	morning rise	-9625 Jun 07 j 09:15	22° <b>)</b> 54'05	
direct	-9631 Jan 29 j 12:29	9° <b>)</b> (49'09		retrograde	-9625 Sep 04 j 21:17	24° <b>)</b> (40'10	
evening set	-9631 May 01 j 03:26	11° <b>)</b> €28'40		opposition	-9625 Nov 21 j 11:34	23° <b>¥</b> 25'45	10°39'19
max. Earth dist.	-9631 May 11 j 12:04	11° <b>∺</b> 47'55	36.82624 AU	min. Earth dist.	-9625 Nov 24 j 18:09		33.21653 AU
				direct	-9624 Feb 11 j 07:01	22° <b>)</b> €07'43	
conjunction	-9631 May 15 j 04:41	11° <b>¥</b> 54'50	7°11'30	evening set	-9624 May 15 j 23:48	23° <b>¥</b> 59'42	
minimum elong	-9631 May 15 j 04:25	11° <b>)</b> 54'49	7°11'15	max. Earth dist.	-9624 May 24 j 01:19	24° <b>)</b> 15′48	35.06221 AU
morning rise	-9631 May 29 j 02:17	12° <b>∺</b> 20'45					
retrograde	-9631 Aug 24 j 06:43	13° <b>¥</b> 56′50		conjunction	-9624 May 27 j 14:51	24° <b>∺</b> 22'57	10°16'27
opposition	-9631 Nov 10 j 06:31	12° <b>)</b> 44′56	7°50'03	minimum elong	-9624 May 27 j 14:27	24° <b>)</b> 22′55	10°16'20

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9624 in astronomical counting style is the year 9625 BCE in historical counting style. opposition -9624 Jun 08 j 02:53 24°**)** 45'59 -9618 Dec 05 i 08:12 7°Υ22'15 13°44'05 morning rise -9624 Sep 06 j 03:23 26°**¥**34′02 min. Earth dist. -9618 Dec 08 j 10:51 7°Υ17'23 31.59998 AU retrograde 25°**)** 19'12 11°06'54 -9624 Nov 22 j 15:20 -9617 Feb 24 j 16:02 6°**Y**01′06 direct opposition -9624 Nov 25 j 22:39 -9617 Jun 03 j 20:24 8°Y09'59 min. Earth dist. 25°\(\mathbf{H}\) 14'13 32.97726 AU evening set -9623 Feb 12 j 09:17 -9617 Jun 08 j 05:55 8°Υ19'26 33.43558 AU direct 24°**)** (00'46 max. Earth dist. evening set -9623 May 18 j 15:05 25°**)** 54'53 -9617 Jun 11 j 13:21 8°**Y**26'34 max. Earth dist. -9623 May 26 j 07:02 26°**₭**10'21 34.82135 AU conjunction 13°07'01  $8^{\circ}$ Y26'31-9617 Jun 11 j 12:55 minimum elong 13°07'01 8°**Y**43'00 -9617 Jun 19 j 04:26 conjunction -9623 May 29 j 19:11 26°**升** 17'28 10°42'05 morning rise -9617 Sep 21 j 11:02 10°**Y**47'35 minimum elong -9623 May 29 j 18:48 26°**升**17′26 10°41'59 retrograde -9617 Dec 07 j 18:01 morning rise -9623 Jun 09 j 20:27 26°**)**39'51 opposition 9°**Y**29'37 14°08'13 -9623 Sep 08 j 07:59 -9617 Dec 10 j 20:28 retrograde 28°**¥**29'57 min. Earth dist. 9°**Υ**24'44 31.38445 AU -9616 Feb 26 j 24:00 8°Y08'01 opposition -9623 Nov 24 j 19:56 27°**¥**14'43 11°34'12 direct min. Earth dist. -9623 Nov 28 j 01:55 27°**₭**09'47 32.74051 AU evening set -9616 Jun 06 j 00:04 10°**Y**19'48 direct -9622 Feb 14 j 13:46 25°\ 55'51 max. Earth dist. -9616 Jun 09 j 17:32 10°**Y**27'54 33.21988 AU evening set -9622 May 21 j 07:48 27°¥52'11 max. Earth dist. -9622 May 28 j 11:38 28°**₭**06'47 34.58285 AU conjunction -9616 Jun 12 j 22:54 10°Υ34'55 13°29'01 minimum elong -9616 Jun 12 j 22:27  $10^{\circ}$  $\Upsilon$ 34'53 13°29'03 conjunction -9622 Jun 01 j 00:20 28°\ 14'01 11°07'24 morning rise -9616 Jun 19 j 20:04 10°**Y**49'54 minimum elong -9622 May 31 j 23:55 28°**)** 13′59 11°07'20 retrograde -9616 Sep 22 j 23:38 12°Y57'22 morning rise -9622 Jun 11 j 14:17 28°**)**(35'40 opposition -9616 Dec 09 j 04:46 11°**Y**38'57 14°31'30 -9622 Jul 30 i 05:02  $0^{\circ}\Upsilon$ min. Earth dist. -9616 Dec 12 i 04:42 11°**Υ**34'12 31.17503 AU -9622 Sep 10 j 14:38 0°Y27'56 direct -9615 Feb 28 i 11:17 10°**Y**16′56 retrograde -9622 Oct 24 i 06:01 30°R**)**€ evening set -9615 Jun 09 i 06:10 12° Y 31'50 -9622 Nov 27 j 01:27 29°¥12'16 12°01'08 max. Earth dist. -9615 Jun 12 j 04:57 12°Υ38'18 33.01064 AU opposition -9622 Nov 30 j 07:42 29°**₭**07'17 32.50634 AU min. Earth dist. -9621 Feb 16 j 16:31 -9615 Jun 15 j 09:09 12°**Y**45'17 13°50'11 direct 27°**)** 52'58 conjunction -9621 May 24 j 02:02 29°**)** 51'35 -9615 Jun 15 j 08:43 12°**Y**45′15 13°50'14 minimum elong evening set -9621 May 28 j 04:15  $0^{\circ}\Upsilon$ -9615 Jun 21 j 10:41 12°Y58'36 morning rise 0°Υ05'26 34.34683 AU -9621 May 30 j 19:19 -9615 Sep 25 j 12:47 15°**Y**09'11 max. Earth dist. retrograde 13°**Υ**50'20 14°53'52 -9615 Dec 11 j 16:34 opposition 0°Υ12'36 11°32'21 -9621 Jun 03 j 06:15 -9615 Dec 14 j 15:41 conjunction min. Earth dist. 13°**Y**45'37 30.97253 AU -9614 Mar 02 j 20:50 12°**Y**27'55 -9621 Jun 03 j 05:50 0°Υ12'34 11°32'16 minimum elong direct -9621 Jun 13 j 07:51 0°**Y**33′24 -9614 Jun 12 j 15:48 14°**Y**46'13 morning rise evening set 14°Υ50'56 32.80874 AU -9621 Sep 12 j 20:47 2°Y27'55 -9614 Jun 14 j 18:59 retrograde max. Earth dist. 1°Y11'50 12°27'40 -9621 Nov 29 j 07:52 opposition 1°**Υ**′06'51 32.27461 AU -9621 Dec 02 j 13:21 -9614 Jun 17 j 20:14 14°**Υ**'57'43 14°10'25 min. Earth dist. conjunction -9620 Jan 26 j 12:34 30°**₹**₩ minimum elong -9614 Jun 17 j 19:47 14°**Υ**57'40 14°10'30 direct -9620 Feb 18 j 21:21 29°¥52'04 morning rise -9614 Jun 22 j 23:20 15°**Y**09'06 -9620 Mar 12 j 22:13  $0^{\circ}\Upsilon$ retrograde -9614 Sep 28 j 00:52 17°**Y**23′03 evening set -9620 May 25 j 22:01 1°Y53'05 opposition -9614 Dec 14 j 05:10 16°**Υ**03'49 15°15'13 max. Earth dist. -9620 Jun 01 j 01:39 2°Υ05'54 34.11348 AU min. Earth dist. -9614 Dec 17 j 01:38 15°**Y**59'14 30.77739 AU -9613 Mar 05 j 08:41 14° **Y**41'02 direct -9620 Jun 04 j 12:55 2°Y13'10 11°56'51 -9613 Jun 16 j 06:07 17° Y 03'08 conjunction evening set -9620 Jun 04 j 12:28 2°Y13'08 11°56'48 max. Earth dist. -9613 Jun 17 j 07:44 17°**Υ**05'32 32.61441 AU minimum elong -9620 Jun 14 j 01:32 2°Y33'03 morning rise 4°**Υ**29'55 -9613 Jun 20 i 07:55 17°**Υ**12'16 14°29'39 retrograde -9620 Sep 14 i 05:32 conjunction -9613 Jun 20 i 07:30 opposition -9620 Nov 30 j 14:58 3°Y13'21 12°53'44 minimum elong 17°**Y**12'14 14°29'45 17°**Y**21'17 min. Earth dist. -9620 Dec 03 i 19:51 3°**Y**08'24 32.04593 AU morning rise -9613 Jun 24 i 08:39 direct -9619 Feb 20 i 01:56 1°Y53'08 retrograde -9613 Sep 30 i 15:23 19°**Y**39′03 -9619 May 28 j 19:42 3°Y56'39 opposition -9613 Dec 16 i 18:43 18°**Υ**19'27 15°35'28 evening set max. Earth dist. -9619 Jun 03 j 10:51 4°Υ08'30 33.88327 AU min. Earth dist. -9613 Dec 19 j 13:44 18°Υ14'57 30.58980 AU direct -9612 Mar 06 j 18:50 16°**Y**56′21 4°Υ15'42 12°20'51 19°Y23'08 conjunction -9619 Jun 06 j 20:29 evening set -9612 Jun 19 j 06:27 -9619 Jun 06 j 20:03 19°**Y**22'30 32.42759 AU minimum elong 4°Υ15'39 12°20'48 max. Earth dist. -9612 Jun 18 j 23:38 4°**Υ**34'33 morning rise -9619 Jun 15 j 18:58 19°**Y**28′59 14°47'49 -9619 Sep 16 j 13:37 6°Y33'52 conjunction -9612 Jun 21 j 20:34 retrograde -9619 Dec 02 j 23:15 5°Υ16'50 13°19'14 -9612 Jun 21 j 20:08 19°**Y**28'57 14°47'57 opposition minimum elong 5°Υ11'53 31.82073 AU -9612 Jun 24 j 09:44 19° **Y**34'45 min. Earth dist. -9619 Dec 06 j 03:46 morning rise 3°Y56'09 -9612 Oct 02 j 05:23 21°Y57'12 direct -9618 Feb 22 j 08:35 retrograde 6°**Y**02'17 20°**Y**37'15 evening set -9618 May 31 j 19:04 opposition -9612 Dec 18 j 09:13 15°54'33 max. Earth dist. -9618 Jun 05 j 19:35 6°**Y**12'58 33.65709 AU min. Earth dist. -9612 Dec 21 j 02:21 20°**Y**32'52 30.40944 AU 19°**Y**13′51 direct -9611 Mar 09 j 07:00 conjunction -9618 Jun 09 j 04:26 6°**Υ**20'10 12°44'15 max. Earth dist. -9611 Jun 21 j 14:12 21°**Υ**41'26 32.24820 AU minimum elong -9618 Jun 09 j 03:59 6°**Y**20′07 12°44'15 -9618 Jun 17 j 11:52 6°Y37'53 -9611 Jun 24 j 09:51 21°**Y**'47'53 15°04'50 morning rise conjunction -9618 Sep 19 j 00:36 8°Y39'45 -9611 Jun 24 j 09:27 21°**Y**47'50 15°04'58 retrograde minimum elong

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9611 in astronomical counting style is the year 9612 BCE in historical counting style. 24°**Y**17'30 -9611 Oct 04 j 21:45 retrograde -9603 Oct 25 i 03:24 14°**8**03'17 retrograde opposition opposition -9611 Dec 21 j 00:43 22°\bar{9}57'13 16°12'21 -9602 Jan 10 j 09:48 12°**8**40'25 17°40'01 -9611 Dec 23 j 15:38 22°Υ′52'57 30.23639 AU min. Earth dist. -9602 Jan 12 j 04:37 12°**8**37'26 29.12715 AU min. Earth dist. -9610 Mar 11 j 19:25 21°Y33'32 -9602 Mar 31 j 16:30 11°**8**14'48 direct direct 24°**Υ**'02'40 32.07597 AU max. Earth dist. -9610 Jun 24 j 07:16 -9602 Jul 14 j 19:23 max. Earth dist. 13°**8**53'33 30.98875 AU -9602 Jul 16 j 14:07 24°**Y**'08'53 15°20'37 16°34'15 conjunction -9610 Jun 26 j 23:56 conjunction 13°**8**57'52 -9602 Jul 16 j 13:58 -9610 Jun 26 j 23:33 24°**Y**'08'50 minimum elong 15°20'48 minimum elong 13°**8**57'51 16°34'36 -9610 Oct 07 j 12:52 -9602 Aug 11 j 21:15 retrograde 26°**Y**39′52 15°8 opposition -9610 Dec 23 j 17:14 25°**Υ**19'15 16°28'51 retrograde -9602 Oct 28 j 00:48 16°**8**37'22 -9601 Jan 13 j 07:51 min. Earth dist. -9610 Dec 26 j 06:47 25°Υ15'04 30.07025 AU opposition 15°**8**14'17 17°42'49 23°Y55'17 -9601 Jan 14 j 23:23 direct -9609 Mar 14 j 09:22 min. Earth dist. 15°**8**11'31 29.03136 AU -9609 Jun 26 j 23:45 26°Υ25'48 31.91098 AU -9601 Jan 21 j 21:40 max. Earth dist. 15°₹**8** direct -9601 Apr 03 j 11:57 13°**8**48'33 conjunction -9609 Jun 29 j 14:44 26°**Y**31'53 15°35'08 -9601 Jun 09 j 00:12 15°8 minimum elong -9609 Jun 29 j 14:23 26°**Y**31'51 15°35'19 max. Earth dist. -9601 Jul 17 j 18:57 16°828'20 30.89829 AU retrograde -9609 Oct 10 j 07:09 29° **Y**04'12 opposition -9609 Dec 26 j 10:17 27°**Υ**43'14 16°43'56 conjunction -9601 Jul 19 j 08:59 16°**8**32'11 16°35'43 min. Earth dist. -9609 Dec 28 j 20:58 27°**Υ**39'14 29.91117 AU minimum elong -9601 Jul 19 j 08:52 16°**8**32'11 16°36'04 direct -9608 Mar 15 j 23:48 26°**Y**18′59 retrograde -9601 Oct 30 j 21:01 19°812'24 max. Earth dist. -9608 Jun 28 j 17:51 28°Υ′50'54 31.75314 AU opposition -9600 Jan 16 j 06:18 17°**8**49'08 17°43'36 min. Earth dist. -9600 Jan 17 i 18:34 17°**8**46'36 28.94674 AU conjunction -9608 Jul 01 i 06:23 28°Y56'48 15°48'18 direct -9600 Apr 05 i 09:15 16°**8**23'22 minimum elong -9608 Jul 01 i 06:02 28°**Y**56'46 15°48'31 max. Earth dist. -9600 Jul 19 j 16:37 19°803'52 30.81948 AU -9608 Jul 29 i 01:37 0°8 -9608 Oct 12 j 00:29 1°830'21 -9600 Jul 21 j 03:58 19°**8**07'28 16°35'17 retrograde conjunction -9608 Dec 28 j 04:31 0°809'04 16°57'31 -9600 Jul 21 j 03:55 19°**8**07'27 minimum elong 16°35'41 opposition -9608 Dec 30 j 14:05 0°**と**05'07 29.75922 AU -9600 Nov 01 j 19:29 21°848'19 min. Earth dist. retrograde -9607 Jan 02 j 16:59 -9599 Jan 18 j 05:15 20°**8**24'55 17°42'18 30°RΥ opposition 28°Y44'33 -9607 Mar 18 j 15:36 -9599 Jan 19 j 13:31 20°822'40 28.87344 AU direct min. Earth dist. -9607 May 27 j 12:40 -9599 Apr 08 j 05:50 0°8 direct 18°**8**59'07 -9607 Jul 01 j 12:35 max. Earth dist. 1°**8**17'46 31.60301 AU -9599 Jul 23 j 23:15 21°**8**43'36 16°32'56 conjunction -9599 Jul 23 j 23:14 -9607 Jul 03 j 22:26 1°**8**23'27 16°00'01 21°**8**43'35 16°33'20 conjunction minimum elong -9599 Jul 22 j 16:27 -9607 Jul 03 j 22:07 1°**8**23'25 21°**8**40'27 30.75205 AU minimum elong 16°00'14 max. Earth dist. -9607 Oct 14 j 20:06 3°**8**58'11 -9599 Nov 04 j 15:20 24°**8**25'00 retrograde retrograde -9607 Dec 30 j 23:24 -9598 Jan 21 j 04:48 23°**8**01'30 17°38'56 opposition 2°**8**36'33 17°09'32 opposition min. Earth dist. -9606 Jan 02 j 05:34 2°832'50 29.61489 AU min. Earth dist. -9598 Jan 22 j 10:15 22°859'26 28.81099 AU -9606 Mar 21 j 10:40 1°811'47 direct -9598 Apr 11 j 03:20 21°**8**35'44 direct max. Earth dist. -9606 Jul 04 j 07:34 3°**8**46'13 31.46089 AU conjunction -9598 Jul 26 j 18:44 24°**8**20'26 16°28'39 -9606 Jul 06 j 15:09 3°**8**51'42 16°10'13 -9598 Jul 26 j 18:45 24°**8**20'27 16°29'05 conjunction minimum elong -9606 Jul 06 j 14:52 3°**8**51'41 max. Earth dist. -9598 Jul 25 j 14:51 24°**8**17'35 30.69579 AU minimum elong 16°10'29 -9606 Oct 17 j 15:02 6°827'33 -9598 Nov 07 j 14:18 27°**8**02'17 retrograde retrograde -9605 Jan 02 j 19:01 5°805'35 17°19'53 -9597 Jan 24 j 04:20 25°**8**38'42 17°33'29 opposition opposition -9605 Jan 04 i 23:43 25°836'57 28.75920 AU min. Earth dist. 5°801'57 29.47881 AU min. Earth dist. -9597 Jan 25 i 05:31 -9605 Mar 24 i 03:49 direct 3°840'33 direct -9597 Apr 14 i 00:50 24°**8**12'58 -9605 Jul 07 j 04:18 max. Earth dist. 6°816'14 31.32770 AU -9597 Jul 29 i 14:28 conjunction 26°**8**57'50 16°22'27 -9605 Jul 09 i 08:18 6°821'24 16°18'49 minimum elong -9597 Jul 29 i 14:32 26°**8**57'50 16°22'54 conjunction -9605 Jul 09 i 08:03 6°821'22 16°19'06 max. Earth dist. -9597 Jul 28 j 14:35 26°855'23 30.65017 AU minimum elong -9605 Oct 20 j 10:44 8°**8**58'16 -9597 Nov 10 j 11:01 29°840'02 retrograde retrograde -9604 Jan 05 j 15:15 7°**8**35'59 17°28'28 -9596 Jan 27 j 04:23 28°**8**16'23 17°25'58 opposition opposition min. Earth dist. -9604 Jan 07 j 16:14 7°**8**32'35 29.35157 AU min. Earth dist. -9596 Jan 28 j 03:12 28°814'47 28.71759 AU -9604 Mar 25 j 23:58 6°810'43 direct -9596 Apr 15 j 21:53 26°**8**50'43 direct max. Earth dist. -9604 Jul 09 j 00:04 8°847'26 31.20398 AU conjunction -9596 Jul 31 j 10:10 29°**8**35'34 16°14'21 -9604 Jul 11 j 01:49 8°**8**52'24 16°25'44 -9596 Jul 31 j 10:16 29°**8**35'35 16°14'49 conjunction minimum elong -9604 Jul 11 j 01:36 8°**8**52'22 16°26'04 max. Earth dist. -9596 Jul 30 j 13:38 29°**8**33'28 30.61507 AU minimum elong -9604 Oct 22 j 08:05 11°**8**30'13 -9596 Aug 10 j 09:06  $0^{\circ}\Pi$ retrograde -9603 Jan 07 j 12:12 10°807'37 17°35'12 -9596 Nov 12 j 09:18 2°**Ⅱ**17'59 opposition retrograde min. Earth dist. -9603 Jan 09 j 10:48 10°**8**04'23 29.23412 AU opposition -9595 Jan 29 j 04:29 0°**Д**54'17 17°16'23 direct -9603 Mar 28 j 19:17 8°**8**42'09 min. Earth dist. -9595 Jan 29 j 22:50 0°**Д**53'00 28.68600 AU max. Earth dist. -9603 Jul 11 j 22:36 11°**8**20'02 31.09079 AU -9595 Mar 05 j 05:29 30°R₩ direct -9595 Apr 18 j 22:02 29°**8**28'42 -9603 Jul 13 j 19:54 11°**8**24'35 16°30'54 -9595 May 31 j 18:42  $0^{\circ}\Pi$ conjunction

-9603 Jul 13 j 19:43

minimum elong

11°**8**24'34 16°31'13

-	ical year style is used: Th		•	/ /		, ,	C 23
conjunction	-9595 Aug 03 j 06:00	•	16°04'22	min. Earth dist.	-9587 Feb 19 j 13:16		28.82053 AU
minimum elong	-9595 Aug 03 j 06:08	2° <b>П</b> 13'28		direct	-9587 May 10 j 13:14	20° <b>I</b> 17'28	20.02033 110
max. Earth dist.	-9595 Aug 02 j 12:55		30.59020 AU	evening set	-9587 Aug 17 j 03:45	22° <b>I</b> I42'02	
retrograde	-9595 Nov 15 j 06:37	4° <b>I</b> I55'58	30.37020 AC	evening set	-7567 Aug 17 J 05.45	22 11-72 02	
opposition	-9594 Feb 01 j 04:48	3° <b>П</b> 32'13	17004'47	conjunction	-9587 Aug 23 j 10:44	22° <b>∏</b> 57'13	13940'07
min. Earth dist.	-9594 Feb 01 j 20:37		28.66449 AU	minimum elong	-9587 Aug 23 j 11:06	22° <b>I</b> 57'15	13°40'41
direct	-9594 Apr 21 j 19:40	2° <b>П</b> 06'44	28.00449 AU	max. Earth dist.	-9587 Aug 23 j 24:00		30.79334 AU
direct	-9394 Apr 21 j 19.40	2 д00 44		morning rise	-9587 Aug 29 j 18:26	23° <b>I</b> I12'27	30.19334 AU
conjunction	-9594 Aug 06 j 01:39	4° <b>∏</b> 51'13	15052120	retrograde	-9587 Dec 06 j 02:16	25° <b>II</b> 36'45	
minimum elong	-9594 Aug 06 j 01:59	4° <b>Ⅲ</b> 51'14		opposition	-9586 Feb 22 j 22:12	23 <b>H</b> 3043 24° <b>H</b> 13'27	1.4022100
max. Earth dist.	-9594 Aug 05 j 12:26		30.57583 AU	min. Earth dist.	-9586 Feb 22 j 06:24		28.88976 AU
retrograde	-9594 Nov 18 j 04:25	7° <b>П</b> 33'43	30.37363 AU	direct	-9586 May 13 j 10:25	22° <b>I</b> I49'35	28.88970 AU
opposition	-9593 Feb 04 j 04:53	6° <b>П</b> 09'57	16°51'10	evening set	-9586 Aug 18 j 23:30	25° <b>Ⅱ</b> 11'09	
min. Earth dist.	-9593 Feb 04 j 16:16		28.65304 AU	evening set	-9380 Aug 18 J 23.30	23 11109	
direct	-9593 Apr 24 j 19:47	0° <b>П</b> 09°09 4° <b>П</b> 44'33	26.03304 AU	conjunction	-9586 Aug 26 j 03:33	25° <b>∏</b> 28′21	13°14'54
direct	-9393 Apr 24 j 19.47	4 Д44 33		-	-9586 Aug 26 j 03:57	25° <b>H</b> 28'23	13°14'34 13°15'28
agniumation	-9593 Aug 08 j 21:07	7° <b>Ⅱ</b> 28'40	15°38'47	minimum elong max. Earth dist.	-9586 Aug 26 j 21:20		30.87171 AU
conjunction minimum elong	• •	7° <b>Ⅲ</b> 28'40 7° <b>Ⅲ</b> 28'41				25° <b>I</b> I45'36	30.8/1/1 AU
U	-9593 Aug 08 j 21:20		15°39'17	morning rise	-9586 Sep 02 j 08:17	25°Щ45'36 28°Щ07'09	
max. Earth dist.	-9593 Aug 08 j 10:54		30.57189 AU	retrograde	-9586 Dec 08 j 19:30		12055122
retrograde	-9593 Nov 21 j 02:17	10° <b>Ⅱ</b> 11'02	1.602.512.4	opposition	-9585 Feb 25 j 19:37	26° <b>∏</b> 44'03	13°55'22
opposition	-9592 Feb 07 j 04:48	8° <b>Ⅱ</b> 47'14		min. Earth dist.	-9585 Feb 25 j 01:18		28.96980 AU
min. Earth dist.	-9592 Feb 07 j 13:18		28.65211 AU	direct	-9585 May 16 j 06:49	25° <b>Ⅱ</b> 20'30	
direct	-9592 Apr 26 j 18:34	7° <b>Ⅱ</b> 21'57		evening set	-9585 Aug 20 j 20:57	27° <b>Ⅱ</b> 39'13	
	0502 4 10:1621	100 Толол	15000116		0505 4 20:10:10	270T 50112	10040100
conjunction	-9592 Aug 10 j 16:24	10° <b>Ⅱ</b> 05'35		conjunction	-9585 Aug 28 j 19:49	27° <b>II</b> 58'12	
minimum elong	-9592 Aug 10 j 16:39	10° <b>Ⅱ</b> 05'37		minimum elong	-9585 Aug 28 j 20:12	27° <b>∏</b> 58'14	
max. Earth dist.	-9592 Aug 10 j 10:47		30.57901 AU	max. Earth dist.	-9585 Aug 29 j 16:30		30.96072 AU
retrograde	-9592 Nov 22 j 22:58	12° <b>Ⅱ</b> 47'42	1.01.010.1	morning rise	-9585 Sep 05 j 19:27	28° <b>Ⅱ</b> 17'14	
opposition	-9591 Feb 09 j 04:38	11° <b>Ⅲ</b> 23'53			-9585 Oct 26 j 02:33	0°©	
min. Earth dist.	-9591 Feb 09 j 08:53		28.66208 AU	retrograde	-9585 Dec 11 j 12:26	0°536'10	
direct	-9591 Apr 29 j 19:19	9° <b>Ⅱ</b> 58'46			-9584 Jan 29 j 07:21	30°RⅡ	
	0.501 1 10:11.06	100 T 11115	1.500.515.0	opposition	-9584 Feb 28 j 16:13	29° <b>Ⅱ</b> 13'18	
conjunction	-9591 Aug 13 j 11:06	12° <b>Ⅱ</b> 41'47	15°05'58	min. Earth dist.	-9584 Feb 27 j 17:25		29.06002 AU
minimum elong	-9591 Aug 13 j 11:22	12° <b>Ⅱ</b> 41'48		direct	-9584 May 18 j 03:26	27° <b>Ⅱ</b> 50′06	
max. Earth dist.	-9591 Aug 13 j 08:34		30.59757 AU		-9584 Aug 19 j 05:09	0°95	
retrograde	-9591 Nov 25 j 19:58	15° <b>Ⅱ</b> 23'33		evening set	-9584 Aug 21 j 19:23	0° <b>©</b> 06'06	
opposition	-9590 Feb 12 j 04:13	13° <b>Ⅱ</b> 59'46	15°58'34				
min. Earth dist.	-9590 Feb 12 j 04:41		28.68371 AU	conjunction	-9584 Aug 30 j 11:36	0°526'39	12°20'40
direct	-9590 May 02 j 16:51	12° <b>Ⅱ</b> 34'48		minimum elong	-9584 Aug 30 j 12:01	0°526'42	
evening set	-9590 Aug 13 j 16:33	15° <b>Ⅱ</b> 10′54		max. Earth dist.	-9584 Aug 31 j 11:55		31.05952 AU
				morning rise	-9584 Sep 08 j 04:42	0°547'18	
conjunction	-9590 Aug 16 j 05:44	15° <b>Ⅱ</b> 17'08	14°46'56	retrograde	-9584 Dec 13 j 04:17	3°503'45	
minimum elong	-9590 Aug 16 j 06:04	15° <b>Ⅱ</b> 17'10	14°47'28	min. Earth dist.	-9583 Mar 01 j 11:26		29.15983 AU
max. Earth dist.	-9590 Aug 16 j 08:16		30.62817 AU	opposition	-9583 Mar 02 j 12:33	1°5641'05	12°55'52
morning rise	-9590 Aug 18 j 19:34	15° <b>Ⅲ</b> 23'25		direct	-9583 May 20 j 21:51	0°518'15	
retrograde	-9590 Nov 28 j 16:02	17° <b>Ⅱ</b> 58'27	15005115	evening set	-9583 Aug 23 j 18:40	2° <b>©</b> 31'37	
opposition	-9589 Feb 15 j 03:14	16° <b>Ⅲ</b> 34'44	15°37'17		0500.0	20-5	11051155
min. Earth dist.	-9589 Feb 14 j 23:52		28.71721 AU	conjunction	-9583 Sep 02 j 02:48	2°953'36	
direct	-9589 May 05 j 17:16	15° <b>Ⅱ</b> 09'59		minimum elong	-9583 Sep 02 j 03:12	2°553'38	11°52'26
evening set	-9589 Aug 14 j 20:39	17° <b>Ⅱ</b> 41'29		max. Earth dist.	-9583 Sep 03 j 06:14		31.16771 AU
	0.500 4 10:00 40	150W51100	1.400 (11.0	morning rise	-9583 Sep 11 j 11:48	3°9515'41	
conjunction	-9589 Aug 18 j 23:48	17° <b>Ⅱ</b> 51'32	14°26'13	retrograde	-9583 Dec 15 j 20:24	5°529'44	
minimum elong	-9589 Aug 19 j 00:08	17° <b>Ⅱ</b> 51'34		min. Earth dist.	-9582 Mar 04 j 02:54		29.26860 AU
max. Earth dist.	-9589 Aug 19 j 05:11		30.67107 AU	opposition	-9582 Mar 05 j 08:01	4°907'18	12°24'24
morning rise	-9589 Aug 23 j 03:36	18° <b>Ⅱ</b> 01'39		direct	-9582 May 23 j 17:19	2°5544'48	
retrograde	-9589 Dec 01 j 12:50	20° <b>Ⅲ</b> 32′20	15014112	evening set	-9582 Aug 25 j 18:33	4° <b>©</b> 55'38	
opposition	-9588 Feb 18 j 01:58	19° <b>Ⅱ</b> 08'43			0.500.0	<b>50</b>	1100000
min. Earth dist.	-9588 Feb 17 j 18:05		28.76294 AU	conjunction	-9582 Sep 04 j 17:26	5°9518'54	
direct	-9588 May 07 j 15:04	17° <b>Ⅱ</b> 44'13		minimum elong	-9582 Sep 04 j 17:50	5°5018'56	11°22'38
evening set	-9588 Aug 15 j 10:12	20° <b>Ⅱ</b> 12'04		max. Earth dist.	-9582 Sep 05 j 23:31		31.28453 AU
	0.500	•••	1.4000	morning rise	-9582 Sep 14 j 17:24	5° <b>©</b> 42'16	
conjunction	-9588 Aug 20 j 17:31	20° <b>Ⅲ</b> 24'55	14°03'55	retrograde	-9582 Dec 18 j 11:34	7°954'01	20.20.002 : ==
minimum elong	-9588 Aug 20 j 17:53	20° <b>Ⅲ</b> 24'57	14°04'29	min. Earth dist.	-9581 Mar 06 j 19:16		29.38603 AU
max. Earth dist.	-9588 Aug 21 j 03:54		30.72622 AU	opposition	-9581 Mar 08 j 02:43	6°931'49	11°51'54
morning rise	-9588 Aug 26 j 01:29	20° <b>Ⅱ</b> 37'50		direct	-9581 May 26 j 11:11	5° <b>©</b> 09'39	
retrograde	-9588 Dec 03 j 06:25	23° <b>I</b> I05'08		evening set	-9581 Aug 27 j 18:51	7° <b>©</b> 18'01	
opposition	-9587 Feb 20 j 00:24	21° <b>Ⅱ</b> 41'39	14~49"28				

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9581 in astronomical counting style is the year 9582 BCE in historical counting style. -9581 Sep 07 i 07:28 7°542'26 10°51'22 direct -9574 Jun 12 j 02:50 21°9510'47 conjunction -9581 Sep 07 j 07:51 7°9542'28 evening set -9574 Sep 09 j 01:05 23°904'24 minimum elong 10°51'57 max. Earth dist. -9581 Sep 08 j 17:06 7°545'42 31.40991 AU -9581 Sep 17 j 21:01 -9574 Sep 22 j 12:18 8°906'58 23°**©**33'55 6°59'00 morning rise conjunction -9581 Dec 21 j 01:54 -9574 Sep 22 j 12:35 6°59'33 retrograde 10°9516'28 minimum elong 23°933'56 -9580 Mar 08 j 09:59 -9574 Sep 24 j 18:09 min. Earth dist. 8°956'49 29.51181 AU max. Earth dist. 23°**©**38'52 32.53183 AU -9574 Oct 06 j 01:17 opposition -9580 Mar 09 j 20:43 8°954'29 11°18'31 morning rise 24°903'35 direct -9580 May 28 j 06:07 7°532'40 retrograde -9573 Jan 05 j 09:54 25°959'45 24°543'25 30.64198 AU evening set -9580 Aug 28 j 19:19 9°538'39 min. Earth dist. -9573 Mar 24 j 20:06 opposition -9573 Mar 27 j 03:50 24°939'49 7°07'42 10°19'52 conjunction -9580 Sep 08 j 20:29 10°904'06 direct -9573 Jun 14 j 15:20 23°920'47 -9580 Sep 08 j 20:53 -9573 Sep 11 j 02:21 minimum elong 10°9504'08 10°20'27 evening set 25°512'41 -9580 Sep 10 j 08:21 max. Earth dist. 10°507'34 31.54359 AU morning rise -9580 Sep 19 j 22:57 10°9529'40 conjunction -9573 Sep 24 j 20:27 25°5642'34 6°24'22 retrograde -9580 Dec 22 j 16:25 12°937'02 minimum elong -9573 Sep 24 j 20:43 25°5642'35 6°24'55 min. Earth dist. -9579 Mar 11 j 00:11 11°517'47 29.64627 AU max. Earth dist. -9573 Sep 27 j 04:37 25°**©**47'41 32.72549 AU opposition -9579 Mar 12 j 14:03 11°9515'16 10°44'20 morning rise -9573 Oct 08 j 16:39 26°9512'37 direct -9579 May 30 j 22:09 9°953'46 retrograde -9572 Jan 07 j 17:59 28°907'14 evening set -9579 Aug 30 j 19:59 11°957'28 min. Earth dist. -9572 Mar 26 j 06:05 26°951'20 30.83668 AU opposition -9572 Mar 28 j 15:29 26°5947'39 6°30'35 conjunction -9579 Sep 11 j 09:02 12°523'50 9°47'40 direct -9572 Jun 16 j 01:27 25°\$29'06 minimum elong -9579 Sep 11 i 09:24 12°9523'52 9°48'15 evening set -9572 Sep 12 j 03:29 27°5519'19 max. Earth dist. -9579 Sep 13 i 00:54 12°9527'39 31.68595 AU -9579 Sep 22 i 23:12 12°950'20 conjunction -9572 Sep 26 i 03:58 27°549'30 5°49'38 morning rise -9579 Dec 25 j 04:53 14°955'36 -9572 Sep 26 j 04:13 27°**5**49'32 5°50'11 retrograde minimum elong -9578 Mar 13 j 13:52 13°536'45 29.78955 AU -9572 Sep 28 j 14:54 27°554'50 32.92571 AU min. Earth dist. max. Earth dist. -9578 Mar 15 j 06:24 13°934'04 10°09'26 -9572 Oct 10 j 06:24 28°919'52 morning rise opposition -9572 Dec 11 j 02:32 -9578 Jun 02 j 16:20 12°9012'56  $0^{\circ}\Omega$ direct -9578 Sep 01 j 20:54 -9571 Jan 09 j 01:32 14°9314'25 retrograde 0°**£**12′59 evening set -9571 Feb 07 j 21:09 30°R∽ -9578 Sep 13 j 20:39 14°5041'36 9°14'50 min. Earth dist. -9571 Mar 28 j 14:29 28°957'35 31.03750 AU conjunction 28°**©**53'47 -9578 Sep 13 j 21:01 14°9541'39 9°15'24 -9571 Mar 31 j 02:15 minimum elong opposition 5°53'26 -9578 Sep 15 j 14:30 14°9545'35 31.83721 AU -9571 Jun 18 j 11:50 27°935'40 max. Earth dist. direct -9578 Sep 25 j 21:55 -9571 Sep 14 j 04:57 morning rise 15°908'55 evening set 29°9524'18 -9578 Dec 27 j 18:56 retrograde 17°9512'11 -9577 Mar 16 j 01:35 -9571 Sep 28 j 10:53 29°954'43 5°14'53 min. Earth dist. 15°953'50 29.94208 AU conjunction 29°554'45 5°15'25 -9571 Sep 28 j 11:06 opposition -9577 Mar 17 j 21:55 15°950'55 9°33'55 minimum elong direct -9577 Jun 05 j 08:15 14°930'09 -9571 Sep 30 j 21:45  $0^{\circ}\Omega$ -9577 Sep 03 j 21:45 16°9529'33 max. Earth dist. -9571 Sep 30 j 23:03 0°**Ω**00'07 33.13141 AU evening set -9571 Oct 12 j 19:12  $0^{\circ}\Omega 25'20$ morning rise conjunction -9577 Sep 16 j 07:38 16°957'27 8°41'28 retrograde -9570 Jan 11 j 09:57 2°Ω17'00 -9577 Sep 16 j 07:59 16°957'28 8°42'01 -9570 Mar 30 j 22:24 1°Ω02'05 31.24385 AU minimum elong min. Earth dist. -9577 Sep 18 j 05:31 17°501'46 31.99754 AU -9570 Apr 02 j 12:12 0°**Ω**58'10 5°16'19 max. Earth dist. opposition -9577 Sep 28 j 18:56 17°525'28 -9570 May 15 j 13:26 30°Rூ morning rise -9577 Dec 30 j 04:59 19°9526'50 -9570 Jun 20 j 19:57 29°5540'29 retrograde direct min. Earth dist. -9576 Mar 17 j 14:13 18°508'54 30.10382 AU -9570 Jul 26 i 02:30  $0^{\circ}\Omega$ opposition -9576 Mar 19 j 12:40 18°905'52 8°57'53 evening set -9570 Sep 16 i 06:14 1°**Ω**27'36 direct -9576 Jun 06 i 23:35 16°9545'30 evening set -9576 Sep 04 i 22:53 18°9542'53 conjunction -9570 Sep 30 i 17:18 1°Ω58'12 4°40'09 minimum elong -9570 Sep 30 i 17:30 1°Ω58'13 4°40'41 -9576 Sep 17 j 17:52 19°511'24 8°07'38 -9570 Oct 03 j 08:12 2°Ω03'47 33.34194 AU conjunction max Earth dist -9576 Sep 17 j 18:12 19°9511'26 8°08'12 -9570 Oct 15 j 06:32 2°Ω28'59 minimum elong morning rise -9576 Sep 19 j 17:54 19°515'53 32.16709 AU -9569 Jan 13 j 16:28 4°Ω19'16 max. Earth dist. retrograde morning rise -9576 Sep 30 j 14:31 19°9540'03 min. Earth dist. -9569 Apr 02 j 06:21 3°**Ω**04'45 31.45472 AU 3°**Ω**00'46 4°39'18 retrograde -9576 Dec 31 j 15:50 21°539'36 opposition -9569 Apr 04 j 21:22 min. Earth dist. -9575 Mar 20 j 00:01 20°522'15 30.27481 AU direct -9569 Jun 23 j 06:45 1°**£**43′30 -9575 Mar 22 j 02:33 20°9518'57 8°21'27 evening set -9569 Sep 18 j 07:34 3°**Ω**29'10 opposition -9575 Jun 09 j 13:57 18°959'01 direct -9575 Sep 06 j 23:52 20°954'29 -9569 Oct 02 j 22:49 3°**Ω**59'52 4°05'32 evening set conjunction -9569 Oct 02 j 22:59 minimum elong 3°**Ω**59'53 4°06'03 -9575 Sep 20 j 03:22 conjunction 21°**©**23'32 7°33'27 max. Earth dist. -9569 Oct 05 j 14:16 4°**Ω**05'27 33.55661 AU minimum elong -9575 Sep 20 j 03:40 21°9523'34 7°34'01 morning rise -9569 Oct 17 j 16:36 4°**Ω**30'47 max. Earth dist. -9575 Sep 22 j 06:54 21°528'19 32.34535 AU retrograde -9568 Jan 16 j 00:30 6°**Ω**19'43 morning rise -9575 Oct 03 j 08:37 21°952'44 min. Earth dist. -9568 Apr 03 j 12:14 5°**Ω**05'39 31.66986 AU

retrograde

opposition

min. Earth dist.

-9574 Jan 03 j 01:00

-9574 Mar 22 j 11:28

-9574 Mar 24 j 15:46

23°950'34

22°533'39 30.45445 AU

22°530'15 7°44'41

opposition

evening set

direct

-9568 Apr 06 j 05:45

-9568 Jun 24 j 15:20

-9568 Sep 19 j 08:44

5°**Ω**01'33

3°**Ω**44'40

5°**Ω**28'57

4°02'27

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	ical year style is used: Th	-					05 17571 ATT
conjunction	-9568 Oct 04 j 03:50	5° <b>Ω</b> 59'42		max. Earth dist.	-9562 Oct 18 j 22:16	17°Ω26'51 3	55.1/5/1 AU
minimum elong	-9568 Oct 04 j 03:59	5° <b>Ω</b> 59'43		morning rise	-9562 Oct 31 j 04:29	17° <b>Ω</b> 50'58	
max. Earth dist.	-9568 Oct 06 j 21:54		33.77517 AU	retrograde	-9561 Jan 28 j 17:53	19° <b>Ω</b> 32'16	
morning rise	-9568 Oct 19 j 01:23	6° <b>Ω</b> 30'40		desc. node	-9561 Feb 09 j 07:31	19° <b>Ω</b> 30′23	
retrograde	-9567 Jan 17 j 04:23	8° <b>Ω</b> 18′20		min. Earth dist.	-9561 Apr 17 j 14:06	18° <b>Ω</b> 21'01 3	3.29900 AU
min. Earth dist.	-9567 Apr 05 j 19:22	7° <b>Ω</b> 04'36	31.88907 AU	opposition	-9561 Apr 20 j 18:36	18° <b>Ω</b> 16'24 -0	0°06'33
opposition	-9567 Apr 08 j 13:25	7° <b>Ω</b> 00′29	3°25'49	direct	-9561 Jul 09 j 05:49	17° <b>Ω</b> 02'14	
direct	-9567 Jun 26 j 23:38	5° <b>Ω</b> 43'59		evening set	-9561 Oct 02 j 13:22	18° <b>Ω</b> 38'36	
evening set	-9567 Sep 21 j 09:43	7° <b>Ω</b> 26'54		8.11	,		
e vennig set	207 Sep 21 j 02.13	, 002031		conjunction	-9561 Oct 17 j 19:42	19° <b>Ω</b> 08'28 -0	0°21'56
conjunction	-9567 Oct 06 i 08:00	7° <b>Ω</b> 57'39	2°56'49	minimum elong	-9561 Oct 17 j 19:42	19°Ω08'28 (	
,	,			Č	·		
minimum elong	-9567 Oct 06 j 08:07	7° <b>Ω</b> 57'40	2°57'19	max. Earth dist.	-9561 Oct 21 j 01:04	19° <b>Ω</b> 14'49 3	55.42331 AU
max. Earth dist.	-9567 Oct 09 j 03:02		33.99773 AU	morning rise	-9561 Nov 02 j 04:58	19° <b>Ω</b> 38'34	
morning rise	-9567 Oct 21 j 08:52	8° <b>Ω</b> 28'38		retrograde	-9560 Jan 30 j 18:11	21° <b>Ω</b> 19′03	
retrograde	-9566 Jan 19 j 07:59	10° <b>Ω</b> 15′03		min. Earth dist.	-9560 Apr 18 j 16:27	20° <b>Ω</b> 08′09 3	33.54814 AU
min. Earth dist.	-9566 Apr 07 j 23:24	9° <b>Ω</b> 01'46	32.11254 AU	opposition	-9560 Apr 21 j 21:07	20° <b>Ω</b> 03'33 -0	0°40'21
opposition	-9566 Apr 10 j 20:07	8° <b>Ω</b> 57'31	2°49'29	direct	-9560 Jul 10 j 09:25	18° <b>Ω</b> 49'48	
direct	-9566 Jun 29 j 08:25	7° <b>Ω</b> 41′23		evening set	-9560 Oct 03 j 13:40	20° <b>Ω</b> 25'19	
evening set	-9566 Sep 23 j 10:43	9° <b>Ω</b> 23'02		Č	,		
<b>3</b>	, , , , , , , , , , , , , , , , , , ,			conjunction	-9560 Oct 18 j 19:41	20° <b>Ω</b> 54'54 -(	0°53'34
conjunction	-9566 Oct 08 j 11:33	9° <b>Ω</b> 53'44	2°22'50	minimum elong	-9560 Oct 18 j 19:39	20°Ω54'54 (	
·	-	9° <b>Ω</b> 53'45		max. Earth dist.	•	$21^{\circ}\Omega01'14 3$	
minimum elong	-9566 Oct 08 j 11:39				-9560 Oct 22 j 01:15		53.0/301 AU
max. Earth dist.	-9566 Oct 11 j 08:39		34.22431 AU	morning rise	-9560 Nov 03 j 04:43	21° <b>Ω</b> 24'44	
morning rise	-9566 Oct 23 j 15:10	10° <b>Ω</b> 24'40		retrograde	-9559 Jan 31 j 19:31	23° <b>Ω</b> 04'26	
retrograde	-9565 Jan 21 j 10:14	12° <b>Ω</b> 09'55		min. Earth dist.	-9559 Apr 20 j 16:19	21° <b>Ω</b> 54'01 3	
min. Earth dist.	-9565 Apr 10 j 04:34	10° <b>Ω</b> 56′59	32.34055 AU	opposition	-9559 Apr 23 j 22:53	21° <b>Ω</b> 49'19 -1	1°13'37
opposition	-9565 Apr 13 j 02:02	10° <b>Ω</b> 52'41	2°13'27	direct	-9559 Jul 12 j 12:05	20° <b>Ω</b> 35'58	
direct	-9565 Jul 01 j 15:11	9° <b>Ω</b> 36′56		evening set	-9559 Oct 05 j 13:55	22° <b>Ω</b> 10'42	
evening set	-9565 Sep 25 j 11:27	11° <b>Ω</b> 17′22					
				conjunction	-9559 Oct 20 j 19:11	22° <b>Ω</b> 40'00 -1	1°24'45
conjunction	-9565 Oct 10 j 14:28	11° <b>Ω</b> 47'59	1°49'08	minimum elong	-9559 Oct 20 j 19:07	22° <b>Ω</b> 40'00	
minimum elong	-9565 Oct 10 j 14:32	11° <b>Ω</b> 47'59		max. Earth dist.	-9559 Oct 24 j 02:13	22°Ω46'24 3	
max. Earth dist.	-9565 Oct 13 j 13:18		34.45548 AU	morning rise	-9559 Nov 05 j 03:34	23°Ω09'33	55.72501 AU
			34.43346 AU	-	-		
morning rise	-9565 Oct 25 j 20:06	12° <b>Ω</b> 18'49		retrograde	-9558 Feb 02 j 18:38	24° <b>Ω</b> 48'31	
retrograde	-9564 Jan 23 j 11:39	14° <b>Ω</b> 02'59		min. Earth dist.	-9558 Apr 22 j 17:55	23° <b>Ω</b> 38′25 3	
min. Earth dist.	-9564 Apr 11 j 07:24		32.57329 AU	opposition	-9558 Apr 26 j 00:12	23° <b>Ω</b> 33'46 -1	1°46'19
opposition	-9564 Apr 14 j 07:12	12° <b>Ω</b> 46′04	1°37'48	direct	-9558 Jul 14 j 13:50	22° <b>Ω</b> 20'49	
direct	-9564 Jul 02 j 21:36	11° <b>Ω</b> 30'41		evening set	-9558 Oct 07 j 14:05	23° <b>Ω</b> 54'47	
evening set	-9564 Sep 26 j 12:06	13° <b>Ω</b> 10′00					
				conjunction	-9558 Oct 22 j 18:19	24° <b>Ω</b> 23'46 -1	1°55'24
conjunction	-9564 Oct 11 j 16:31	13° <b>Ω</b> 40′29	1°15'47	minimum elong	-9558 Oct 22 j 18:15	24° <b>Ω</b> 23'45 ∃	1°55'01
minimum elong	-9564 Oct 11 j 16:34	13° <b>Ω</b> 40′29	1°16'14	max. Earth dist.	-9558 Oct 26 j 01:55	24° <b>Ω</b> 30′09 3	
max. Earth dist.	-9564 Oct 14 j 16:37		34.69118 AU	morning rise	-9558 Nov 07 j 01:27	24° <b>Ω</b> 52'59	70.17005710
morning rise	-9564 Oct 26 j 23:56	13° <b>Ω1</b> 1'11	54.07110 AC	retrograde	-9557 Feb 04 j 15:35	26° <b>Ω</b> 31'16	
morning rise	-			min. Earth dist.	-		14 20671 AII
	-9564 Nov 22 j 19:59	15° <b>Ω</b>			-9557 Apr 24 j 17:08	25° <b>Ω</b> 21'34 3	
retrograde	-9563 Jan 24 j 13:51	15° <b>Ω</b> 54'20		opposition	-9557 Apr 28 j 00:37	25°Ω16'52 -2	2°18'27
	-9563 Apr 01 j 02:24	15°R <b>Ω</b>		direct	-9557 Jul 16 j 15:53	24° <b>Ω</b> 04'17	
min. Earth dist.	-9563 Apr 13 j 10:35		32.81095 AU	evening set	-9557 Oct 09 j 14:15	25° <b>Ω</b> 37'34	
opposition	-9563 Apr 16 j 11:50	14° <b>Ω</b> 37'45	1°02'33				
direct	-9563 Jul 05 j 00:53	13° <b>Ω</b> 22'46		conjunction	-9557 Oct 24 j 16:48	26° <b>Ω</b> 06'11 -2	2°25'33
evening set	-9563 Sep 28 j 12:36	15° <b>Ω</b> 01'01		minimum elong	-9557 Oct 24 j 16:42	26° <b>Ω</b> 06'11 2	2°25'11
	-9563 Sep 28 j 00:01	15° <b>Ω</b>		max. Earth dist.	-9557 Oct 28 j 00:28	26° <b>Ω</b> 12'32 3	6.43188 AU
				morning rise	-9557 Nov 08 j 22:34	26° <b>Ω</b> 35'04	
conjunction	-9563 Oct 13 j 18:17	15° <b>Ω</b> 31'20	0°42'48	retrograde	-9556 Feb 06 j 13:55	28° <b>Ω</b> 12'42	
minimum elong	-9563 Oct 13 j 18:18	15° <b>Ω</b> 31'20	0°43'15	min. Earth dist.	-9556 Apr 25 j 17:01	$27^{\circ}\Omega 03'19 3$	04 56000 ATT
· ·	-						
max. Earth dist.	-9563 Oct 16 j 20:51		34.93145 AU	opposition	-9556 Apr 29 j 00:46	26° <b>Ω</b> 58'38 -2	2 30 00
morning rise	-9563 Oct 29 j 02:41	16° <b>Ω</b> 01'52		direct	-9556 Jul 17 j 14:54	25° <b>Ω</b> 46′25	
retrograde	-9562 Jan 26 j 15:03	17° <b>Ω</b> 44'04		evening set	-9556 Oct 10 j 13:58	27° <b>Ω</b> 19′00	
min. Earth dist.	-9562 Apr 15 j 13:03		33.05297 AU				
opposition	-9562 Apr 18 j 15:29	16° <b>Ω</b> 27'50	0°27'46	conjunction	-9556 Oct 25 j 14:49	27° <b>Ω</b> 47'16 -2	2°55'10
direct	-9562 Jul 07 j 04:32	15° <b>Ω</b> 13'15		minimum elong	-9556 Oct 25 j 14:43	27° <b>Ω</b> 47'15 2	2°54'47
evening set	-9562 Sep 30 j 13:08	16° <b>Ω</b> 50'32		max. Earth dist.	-9556 Oct 28 j 23:48	27° <b>Ω</b> 53'40 3	6.68520 AU
J	1 3			morning rise	-9556 Nov 09 j 18:33	28° <b>Ω</b> 15'45	
				<i>5</i>	, , , , , , , , , , , , , , , , , , ,		
conjunction	-9562 Oct 15 i 19·16	17°Ω20'38	0°10'16	retrograde	-9555 Feb 07 i 10:44	29°Ω 52'47	
conjunction	-9562 Oct 15 j 19:16	17° <b>Ω</b> 20'38 17° <b>Ω</b> 20'38	0°10'16 0°10'42	retrograde min Earth dist	-9555 Feb 07 j 10:44 -9555 Apr 27 j 16:22	29° <b>Ω</b> 52'47 28° <b>Ω</b> 43'42 3	34 81499 ATT
minimum elong	-9562 Oct 15 j 19:17	17° <b>Ω</b> 20′38	0°10'16 0°10'42	min. Earth dist.	-9555 Apr 27 j 16:22	28° <b>Ω</b> 43'42 3	
·				-	-		

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 26 Attention, astronomical year style is used: The year -9555 in astronomical counting style is the year 9556 BCE in historical counting style.

Attention, astronomical year style is used: The year -9555 in astronomical counting style is the year 9556 BCE in historical counting style.							
evening set	-9555 Oct 12 j 13:48	28° <b>Ω</b> 59'05		max. Earth dist.	-9549 Nov 09 j 23:58	9° <b>™</b> 03'49	38.47306 AU
				morning rise	-9549 Nov 20 j 15:38	9° <b>m</b> ,22'47	
conjunction	-9555 Oct 27 j 12:17	29° <b>Ω</b> 26'57		retrograde	-9548 Feb 19 j 03:15	10° <b>m</b> 56'31	
minimum elong	-9555 Oct 27 j 12:10	29° <b>Ω</b> 26'56		min. Earth dist.	-9548 May 08 j 16:23		36.61511 AU
max. Earth dist.	-9555 Oct 30 j 20:47		36.93841 AU	opposition	-9548 May 12 j 03:29	9° <b>™</b> 44'50	-6°39'54
morning rise	-9555 Nov 11 j 13:55	29° <b>Ω</b> 55′03		direct	-9548 Jul 30 j 21:43	8° <b>m</b> 35'10	
	-9555 Nov 14 j 07:06	0° <b>m</b> )		evening set	-9548 Oct 24 j 07:03	10° <b>m</b> 03'50	
retrograde	-9554 Feb 09 j 09:44	1° <b>m</b> 31'29					
min. Earth dist.	-9554 Apr 29 j 13:57		35.06938 AU	conjunction	-9548 Nov 07 j 04:51	10° <b>m</b> 28'30	
opposition	-9554 May 02 j 22:51	0° mp 18'01	-3°51'18	minimum elong	-9548 Nov 07 j 04:39	10° m, 28'29	
Γ	-9554 May 15 j 23:01	30°R€		max. Earth dist.	-9548 Nov 10 j 17:24		38.73129 AU
direct	-9554 Jul 21 j 12:18	29° <b>Ω</b> 06′26		morning rise	-9548 Nov 21 j 05:24	10° Mp 53'22	
. ,	-9554 Sep 22 j 10:54	0°M)		retrograde	-9547 Feb 19 j 23:53	12° M) 26'46	26 07400 411
evening set	-9554 Oct 14 j 13:18	0° Mg 37'47		min. Earth dist. opposition	-9547 May 10 j 10:31 -9547 May 13 j 22:34	11° m) 15'24	36.87489 AU
conjunction	-9554 Oct 29 j 09:17	1° <b>m</b> 05'15	30521/13	direct	-9547 May 13 j 22.34 -9547 Aug 01 j 14:47	10° Mp 06'03	-/ 03 44
minimum elong	-9554 Oct 29 j 09:09	1° mp 05'14		evening set	-9547 Oct 26 j 05:42	10 m/00 03	
max. Earth dist.	-9554 Nov 01 j 19:24	•	37.19183 AU	evening set	-7547 OCI 20 j 05.42	11 111/3423	
morning rise	-9554 Nov 13 j 08:13	1° Mp 32'56	37.17103 AC	conjunction	-9547 Nov 08 j 22:52	11° <b>m</b> 58'34	-6°55'43
retrograde	-9553 Feb 11 j 06:45	3°M)08'48		minimum elong	-9547 Nov 08 j 22:39	11° <b>m</b> <sub>2</sub> 58'33	
min. Earth dist.	-9553 May 01 j 12:35	-	35.32427 AU	max. Earth dist.	-9547 Nov 12 j 12:31		38.98888 AU
opposition	-9553 May 04 j 21:03	1° m <sub>0</sub> 55'37		morning rise	-9547 Nov 12 j 12:31	12° m/ 04' 54' 12° m/ 22' 55	30.70000 710
direct	-9553 Jul 23 j 11:22	0° Mp 44'21	7 21 01	retrograde	-9546 Feb 21 j 18:46	13° <b>M</b> 56'03	
evening set	-9553 Oct 16 j 12:33	2° m/ 15'08		min. Earth dist.	-9546 May 12 j 06:13		37.13374 AU
evening see	7555 Get 10 j 12.55	2 11/15 00		opposition	-9546 May 15 j 17:05	12° m/44'58	
conjunction	-9553 Oct 31 j 05:34	2° Mp 42'10	-4°20'38	direct	-9546 Aug 03 j 09:04	11° <b>m</b> <sub>2</sub> 35'57	, 3000
minimum elong	-9553 Oct 31 j 05:25	2° m/42'09		evening set	-9546 Oct 28 j 04:17	13° <b>m</b> ) 04'02	
max. Earth dist.	-9553 Nov 03 j 15:33		37.44596 AU	evening sec	70 10 00t 20 j 0 1.17	13 140.02	
morning rise	-9553 Nov 15 j 01:31	3° m/09'25		conjunction	-9546 Nov 10 j 16:32	13° <b>m</b> 27'40	-7°19'29
retrograde	-9552 Feb 13 j 04:29	4° m) 44'46		minimum elong	-9546 Nov 10 j 16:19	13° <b>m</b> ) 27'39	
min. Earth dist.	-9552 May 02 j 08:28		35.58018 AU	max. Earth dist.	-9546 Nov 14 j 05:30		39.24522 AU
opposition	-9552 May 05 j 18:35	3°m/31'52		morning rise	-9546 Nov 24 j 07:13	13° m 51'29	
direct	-9552 Jul 24 j 09:14	2° m/20'54		retrograde	-9545 Feb 23 j 12:15	15° <b>m</b> ) 24'21	
evening set	-9552 Oct 17 j 11:47	3° m 51'11		min. Earth dist.	-9545 May 13 j 23:34	14° <b>m</b> ) 18'14	37.39098 AU
-	-			opposition	-9545 May 17 j 11:12	14° <b>m</b> 13'34	
conjunction	-9552 Nov 01 j 01:28	4° Mp 17'46	-4°47'59	direct	-9545 Aug 05 j 03:50	13° <b>m</b> 04'50	
minimum elong	-9552 Nov 01 j 01:19	4° <b>m</b> ) 17'45	4°47'39	evening set	-9545 Oct 30 j 02:40	14° <b>m</b> 32'40	
max. Earth dist.	-9552 Nov 04 j 12:33	4° Mp 24′08	37.70109 AU				
morning rise	-9552 Nov 15 j 18:13	4° <b>m</b> 44'34		conjunction	-9545 Nov 12 j 09:37	14° <b>m</b> 55'46	-7°42'41
retrograde	-9551 Feb 13 j 22:12	6° Mp 19′27		minimum elong	-9545 Nov 12 j 09:23	14° <b>m</b> 55'45	
min. Earth dist.	-9551 May 04 j 05:51	5° Mp 11'32	35.83743 AU	max. Earth dist.	-9545 Nov 15 j 22:24	15° <b>m</b> 01'57	39.49952 AU
opposition	-9551 May 07 j 15:39	5° <b>™</b> 06'50	-5°18'31	morning rise	-9545 Nov 25 j 19:09	15° <b>m</b> 19'04	
direct	-9551 Jul 26 j 07:28	3° Mp 56'12		retrograde	-9544 Feb 25 j 03:38	16° <b>m</b> 51'41	
evening set	-9551 Oct 19 j 10:45	5° Mp 26'01		min. Earth dist.	-9544 May 14 j 18:26	-	37.64618 AU
				opposition	-9544 May 18 j 05:06	15° <b>m</b> 41'10	-8°19'26
conjunction	-9551 Nov 02 j 21:03	5° m 52'08		direct	-9544 Aug 05 j 23:13	14° <b>m</b> 32'43	
minimum elong	-9551 Nov 02 j 20:53	5° m 52'07		evening set	-9544 Oct 31 j 00:58	16° Mp 00'18	
max. Earth dist.	-9551 Nov 06 j 08:57	-	37.95756 AU	. ,.	054431 12:02:20	1 (0 m, 2015)	0005110
morning rise	-9551 Nov 17 j 10:05	6° Mp 18'28		conjunction	-9544 Nov 13 j 02:39	16° My 22'52	
retrograde	-9550 Feb 15 j 14:50	7° Mp 52'55	26,00502 ATT	minimum elong	-9544 Nov 13 j 02:25	16° Mp 22'51	
min. Earth dist.	-9550 May 06 j 01:12		36.09583 AU	max. Earth dist.	-9544 Nov 16 j 15:42	-•	39.75166 AU
opposition	-9550 May 09 j 12:03	6° Mp 40'36	-5°46′18	morning rise	-9544 Nov 26 j 06:30	16° Mp 45'37	
direct	-9550 Jul 28 j 06:26	5° Mp 30'17		retrograde	-9543 Feb 25 j 17:39	18° Mp 18'01	27 00006 ATT
evening set	-9550 Oct 21 j 09:44	6° Mp 59′40		min. Earth dist.	-9543 May 16 j 11:54	-	37.89896 AU
agniumation	0550 Nov. 04 ; 16:00	7°m25'10	5940!52	opposition direct	-9543 May 19 j 22:20	17° Mp 07'45	-8 42 40
conjunction	-9550 Nov 04 j 16:00	7° Mp 25'19			-9543 Aug 07 j 18:54	15° M 59'33	
minimum elong max. Earth dist.	-9550 Nov 04 j 15:49 -9550 Nov 08 j 03:50	7° Mp 25'19	38.21492 AU	evening set	-9543 Nov 01 j 23:15	17° <b>m</b> 26'55	
morning rise	-9550 Nov 19 j 01:16	7° <b>m</b> )51'11	38.21492 AU	conjunction	-9543 Nov 14 j 19:07	17° <b>m</b> ) 48'57	8°27'21
retrograde	-9549 Feb 17 j 09:46	9° <b>m</b> <sub>25'15</sub>		minimum elong	-9543 Nov 14 j 18:53	17 my 48 57	
min. Earth dist.	-9549 May 07 j 20:39		36.35526 AU	max. Earth dist.	-9543 Nov 18 j 07:00	-•	40.00138 AU
opposition	-9549 May 11 j 07:59	8° mg 13'15		morning rise	-9543 Nov 27 j 17:22	17 mg 34 39 18° mg 11'08	10.00130 AU
direct	-9549 Jul 30 j 01:27	7° Mp 03'16	3 13 23	retrograde	-9542 Feb 27 j 10:36	19° <b>m</b> ) 43'19	
evening set	-9549 Oct 23 j 08:25	8° Mp 32'16		min. Earth dist.	-9542 May 18 j 04:44	-	38.14963 AU
				opposition	-9542 May 21 j 15:14	18° <b>m</b> <sub>2</sub> 37' 32' 18° <b>m</b> <sub>2</sub> 33' 19	
conjunction	-9549 Nov 06 j 10:43	8° <b>m</b> 57'26	-6°06'24	direct	-9542 Aug 09 j 10:53	17° <b>m</b> ) 25'21	•
minimum elong	-9549 Nov 06 j 10:31	8° <b>m</b> 57'25		evening set	-9542 Nov 03 j 21:12	18° <b>m</b> 52'31	
3	<i>y</i>			J	<i>j</i> –	3	

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9542 in astronomical counting style is the year 9543 BCE in historical counting style. -9542 Nov 16 i 11:16 19° m 13'59 -8°48'50 direct -9535 Aug 18 j 23:16 27° m 00'30 conjunction -9542 Nov 16 i 11:02 19° m 13'58 8°48'40 evening set -9535 Nov 15 j 04:04 28° m) 27'12 minimum elong max. Earth dist. -9542 Nov 20 j 00:01 19° Mp 20'03 40.24905 AU -9542 Nov 29 j 03:24 19° m 35'36 -9535 Nov 25 j 18:31 conjunction 28° mp 44'35 -11°03'10 morning rise -9541 Mar 01 j 01:41 21° Mp 07'37 -9535 Nov 25 j 18:16 28° m/44'34 11°03'04 retrograde minimum elong 20° m/02'19 38.39844 AU -9535 Nov 29 j 06:34 min. Earth dist. -9541 May 19 j 22:07 max. Earth dist. 28° m 50'20 41.95321 AU -9535 Dec 06 j 10:25 opposition -9541 May 23 j 07:34 19° m 57'50 -9°27'35 morning rise 29° m 02'04 0∘**⊽** direct -9541 Aug 11 j 04:00 18° m 50'07 -9534 Jan 15 j 10:06 evening set -9541 Nov 05 j 19:07 20° m 17'07 retrograde -9534 Mar 10 j 07:55 0°**ჲ**33'38 -9534 May 04 j 15:32 30°R M 20° m 38'01 -9°09'44 conjunction -9541 Nov 18 j 02:57 min. Earth dist. -9534 May 29 j 07:55 29° m 29'57 40.11250 AU -9541 Nov 18 j 02:42 -9534 Jun 01 j 15:43 minimum elong 20° m/38'00 9°09'35 opposition  $29^{\circ}$  **m**  $25'41 -11^{\circ}45'12$ -9541 Nov 21 j 14:43 max. Earth dist. 20° Mp 43'58 40.49527 AU direct -9534 Aug 20 j 12:34 28° m 19'47 morning rise -9541 Nov 30 j 12:50 20° m 59'04 evening set -9534 Nov 17 j 01:32 29° Mp 46'32 retrograde -9540 Mar 01 j 18:56 22° m/30'54 -9534 Nov 25 j 07:58 0∘**⊽** min. Earth dist. -9540 May 20 j 13:12 21° m 25'52 38.64614 AU conjunction opposition -9540 May 23 j 23:31 21° Mp 21'22 -9°49'04 -9534 Nov 27 j 08:17 0° 203'18 -11° 20'09 direct -9540 Aug 11 j 19:00 20° m 13'53 minimum elong -9534 Nov 27 j 08:03 0°**2**03'17 11°20'06 evening set -9540 Nov 06 j 16:46 21° m/40'45 max. Earth dist. -9534 Nov 30 j 19:15 0°**2**08'57 42.19034 AU morning rise -9534 Dec 07 j 16:14 0°**2**20′09 conjunction -9540 Nov 18 j 18:14 22° m 01'05 -9°30'04 retrograde -9533 Mar 11 j 22:35 1°**£**51'45 minimum elong -9540 Nov 18 i 18:00 22° m 01'04 9°29'55 min. Earth dist. -9533 May 30 j 21:14 0°**2**48'20 40.35002 AU max. Earth dist. -9540 Nov 22 i 06:42 22° 10 07'03 40.74044 AU opposition -9533 Jun 03 i 05:10 0° **△**44'04 -12°02'33 morning rise -9540 Nov 30 i 21:45 22° m 21'33 -9533 Jul 10 i 19:50 30°R M retrograde -9539 Mar 03 j 10:34 23° m 53'16 direct -9533 Aug 22 j 02:15 29° m 38'24 -9539 May 22 j 05:54 22° m/48'25 38.89303 AU -9533 Oct 02 j 12:13 0∘**⊽** min. Earth dist. -9539 May 25 j 15:13 22° m 43'58 -10°09'56 -9533 Nov 18 j 22:59 1°**2**05'14 evening set opposition -9539 Aug 13 j 10:37 21° m 36'44 direct -9539 Nov 08 j 14:26 23° m 03'31 -9533 Nov 28 j 21:44 1°**2**21'22 -11°36'38 conjunction evening set -9533 Nov 28 j 21:29 1°**2**21'21 11°36'34 minimum elong -9539 Nov 20 j 09:25 23° m 23'16 -9°49'49 -9533 Dec 02 j 07:54 conjunction max. Earth dist. 1°**£**26'57 42.42412 AU -9539 Nov 20 j 09:09 -9533 Dec 08 j 21:48 1°**≏**37'36 minimum elong 23° m 23'15 9°49'41 morning rise -9539 Nov 23 j 21:50 23° m/29'12 40.98501 AU max. Earth dist. -9532 Mar 12 j 11:12 3°**₽**09'15 retrograde 2°**2**05'58 40.58413 AU -9539 Dec 02 j 06:05 23° m 43'09 -9532 May 31 j 12:01 morning rise min. Earth dist. -9538 Mar 04 j 22:47 25° m 14'46 -9532 Jun 03 j 18:33 2°**2**01'48 -12°19'22 retrograde opposition 0°**£**56'22 -9538 May 23 j 20:19 24° Mp 10'11 39.13921 AU -9532 Aug 22 j 16:16 min. Earth dist. direct 24° m 05'44 -10°30'11 opposition -9538 May 27 j 06:13 evening set -9532 Nov 19 j 20:22 2°**£**23'16 direct -9538 Aug 15 j 04:08 22° m 58'45 -9538 Nov 10 j 12:01 24° m 25'29 conjunction -9532 Nov 29 j 11:06 2°**2**38'46 -11°52'37 evening set minimum elong -9532 Nov 29 j 10:52 2°**2**38'45 11°52'35 conjunction -9538 Nov 22 j 00:03 24° m/ 44'38 -10° 08'59 max. Earth dist. -9532 Dec 02 j 21:07 2°**2**44'18 42.65433 AU -9538 Nov 21 j 23:49 24° mp 44'37 10°08'52 -9532 Dec 09 j 02:48 2°**£**54'21 minimum elong morning rise -9538 Nov 25 j 11:54 24° m 50'30 41.22881 AU -9531 Mar 13 j 20:29 4°**£**26'05 max. Earth dist. retrograde -9538 Dec 03 j 13:59 25° m 03'56 -9531 Jun 02 j 01:49 3°**2**22'58 40.81426 AU morning rise min. Earth dist. -9537 Mar 06 j 12:12 26° m 35'30 -9531 Jun 05 j 07:33 3°**2**18'50 -12°35'40 retrograde opposition min. Earth dist. -9537 May 25 i 11:32 25° m 31'09 39.38475 AU direct -9531 Aug 24 i 08:33 2°**£**13'36 opposition -9537 May 28 j 21:09 25° m 26'44 -10°49'49 evening set -9531 Nov 21 j 17:57 3°**£**40'35 direct -9537 Aug 16 i 19:42 24° m 20'01 -9531 Dec 01 i 00:08 evening set -9537 Nov 12 i 09:13 25° m 46'42 conjunction 3°**£**55'27 -12°08'07 minimum elong -9531 Nov 30 i 23:53 3°**2**55'26 12°08'05 -9537 Nov 23 i 14:24 26° m 05'17 -10°27'36 max. Earth dist. -9531 Dec 04 i 08:10 4°**2**00'50 42.88061 AU conjunction -9537 Nov 23 i 14:09 26° m 05'16 10°27'29 -9531 Dec 10 j 07:21 4°**£**10′23 minimum elong morning rise -9537 Nov 27 j 03:12 26° mp 11'10 41.47181 AU -9530 Mar 15 j 09:11 5°**£**42'10 max. Earth dist. retrograde 4°**2**39'13 41.04071 AU morning rise -9537 Dec 04 j 21:05 26° m 23'58 min. Earth dist. -9530 Jun 03 j 14:50 27° m 55'32 retrograde -9536 Mar 07 j 01:10 opposition -9530 Jun 06 j 20:08 4°**2**35'08 -12°51'27 min. Earth dist. -9536 May 26 j 02:42 26° m 51'24 39.62911 AU direct -9530 Aug 25 j 21:09 3°**£**30'05 -9536 May 29 j 11:42 26° m/47'01 -11°08'51 evening set -9530 Nov 23 j 15:18 4°**£**57'09 opposition 25° m 40'35 direct -9536 Aug 17 j 10:57 -9536 Nov 13 j 06:43 -9530 Dec 02 j 12:54 5°**Ω**11'22 -12°23'08 evening set 27° m 07'16 conjunction -9530 Dec 02 j 12:40 minimum elong 5°**£**11'21 12°23'07 -9536 Nov 24 j 04:32 conjunction 27° m 25'15 -10°45'39 max. Earth dist. -9530 Dec 05 j 21:20 5°**£**16'44 43.10333 AU minimum elong -9536 Nov 24 j 04:18 27° m 25'14 10°45'33 morning rise -9530 Dec 11 j 11:20 5°**£**25'39 max. Earth dist. -9536 Nov 27 j 16:08 27° Mp 31'01 41.71350 AU retrograde -9529 Mar 16 j 21:12 6°**£**57'31 morning rise -9536 Dec 05 j 03:56 27° m 43'20 min. Earth dist. -9529 Jun 05 j 04:54 5°**♀**54'39 41.26373 AU retrograde -9535 Mar 08 j 17:04 29° m 14'54 opposition -9529 Jun 08 j 08:32 5°**£**50'39 -13°06'43 -9535 May 27 j 16:22 28° Mp 11'03 39.87197 AU -9529 Aug 27 j 09:38 4°**£**45'47 min. Earth dist. direct

-9535 May 31 j 01:48

opposition

28° m 06'40 -11°27'19

evening set

-9529 Nov 25 j 12:39

6° **2**12'58

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9529 in astronomical counting style is the year 9530 BCE in historical counting style. -9529 Dec 04 i 01:11 6° 226'31 -12°37'39 direct -9522 Sep 04 i 16:53 13°**♀**17'12 conjunction -9529 Dec 04 j 00:57 6°**2**26'30 12°37'38 evening set -9522 Dec 06 j 23:17 14°**£**46'19 minimum elong 6°**2**31'46 43.32306 AU max. Earth dist. -9529 Dec 07 j 08:20 -9522 Dec 12 j 09:54 14°**£**54'42 -14°05'45 -9529 Dec 12 j 14:26 6° <u>₽</u>40'07 conjunction morning rise -9522 Dec 12 j 09:41 14°**2**54'41 14°05'50 retrograde -9528 Mar 17 j 10:26 8° - 12'05 minimum elong 7°**2**09'24 41.48403 AU -9522 Dec 15 j 13:15 min. Earth dist. -9528 Jun 05 j 16:27 max. Earth dist. 14°**♀**59'32 44.79803 AU opposition -9528 Jun 08 j 20:33 7°**2**05'25 -13°21'27 morning rise -9522 Dec 17 j 20:31 15°**2**03'05 direct -9528 Aug 27 j 20:55 6°**₽**00'42 retrograde -9521 Mar 26 j 14:39 16°**△**36'50 evening set -9528 Nov 26 j 10:04 7°**₽**28'02 min. Earth dist. -9521 Jun 15 j 02:35 15°**£**35'16 42.96220 AU opposition -9521 Jun 18 j 01:26 15°**£**31'37 -14°50'32 conjunction -9528 Dec 04 j 13:20 7°**2**40'55 -12°51'40 direct -9521 Sep 06 j 05:22 14°**£**28'16 -9528 Dec 04 j 13:05 -9521 Dec 08 j 23:12 minimum elong 7°**2**40'54 12°51'41 evening set 15°**♀**57'52 -9528 Dec 07 j 20:13 max. Earth dist. 7°**♀**46'07 43.54022 AU morning rise -9528 Dec 12 j 17:19 7°**£**53'50 conjunction -9521 Dec 13 j 20:32 16° 205'22 -14° 16'32 retrograde -9527 Mar 18 j 22:29 9°**£**25'55 minimum elong -9521 Dec 13 j 20:20 16° 205'21 14° 16'37 min. Earth dist. -9527 Jun 07 j 05:39 8°**2**3'20 41.70209 AU max. Earth dist. -9521 Dec 16 j 22:10 16°**♀**10'05 44.99669 AU opposition -9527 Jun 10 j 08:19 8° 219'26 -13°35'41 morning rise -9521 Dec 18 j 17:55 16°**♀**12'53 direct -9527 Aug 29 j 09:11 7°**£**14'54 retrograde -9520 Mar 27 j 00:01 17°**£**47'05 evening set -9527 Nov 28 j 07:42 8°**-**42'25 min. Earth dist. -9520 Jun 15 j 14:11 16°**♀**45'38 43.16032 AU opposition -9520 Jun 18 j 11:40 16°**2**42'04 -15°01'24 conjunction -9527 Dec 06 j 01:23 8°**♀**54'36 -13°05'12 direct -9520 Sep 06 j 16:56 15°**£**38'54 minimum elong -9527 Dec 06 i 01:10 8°**2**54'35 13°05'13 evening set -9520 Dec 10 j 00:30 17°**♀**09'03 max. Earth dist. -9527 Dec 09 i 08:07 8°**2**59'47 43.75543 AU morning rise -9527 Dec 13 i 19:31 9°**2**06'49 conjunction -9520 Dec 14 i 07:21 17°**2**15'36 -14°26'55 -9526 Mar 20 j 07:46 10°**♀**39'04 -9520 Dec 14 i 07:09 17° **2**15'35 14°27'00 retrograde minimum elong -9526 Jun 08 j 17:09 9°**2**36'40 41.91807 AU max. Earth dist. -9520 Dec 17 j 08:44 17°**2**20'17 45.19086 AU min. Earth dist. -9526 Jun 11 j 19:43 9°**2**32'47 -13°49'23 -9520 Dec 18 j 14:04 morning rise 17°**£**22'09 opposition 8°**£**28'25 -9519 Mar 28 j 08:03 -9526 Aug 30 j 23:07 retrograde 18° £ 56'53 direct -9526 Nov 30 j 05:19 -9519 Jun 17 j 01:40 9° 256'10 min. Earth dist. 17°**£**55'31 43.35359 AU evening set -9519 Jun 19 j 21:29 17°**⊆**52'03 -15°11'52 opposition -9526 Dec 07 j 12:54 10°**2**07'39 -13°18'15 -9519 Sep 08 j 05:09 conjunction 16°**₽**49'02 direct -9526 Dec 07 j 12:40 -9519 Dec 12 j 03:44 10°**♀**07'38 13°18'17 18° 219'53 minimum elong evening set -9526 Dec 10 j 18:24 max. Earth dist. 10°**£**12'43 43.96862 AU 18°**£**25′20 -14°36′53 -9526 Dec 14 j 21:00 -9519 Dec 15 j 17:53 morning rise 10°**♀**19'09 conjunction -9525 Mar 21 j 18:38 -9519 Dec 15 j 17:42 retrograde 11°**♀**51'37 minimum elong 18°**≏**25'20 14°37'00 -9525 Jun 10 j 04:48 -9519 Dec 19 j 07:53 min. Earth dist. 10°**△**49'23 42.13219 AU morning rise 18°**♀**30'48 -9519 Dec 18 j 17:01 opposition -9525 Jun 13 j 06:59 10°**2**45'31 -14°02'35 max. Earth dist. 18°**♀**29'51 45.38031 AU direct -9525 Sep 01 j 10:36 9°**£**41'22 retrograde -9518 Mar 29 j 19:16 20°**♀**06'11 -9525 Dec 02 j 03:08 11°**♀**09'23 min. Earth dist. -9518 Jun 18 j 11:43 19°**£**04'58 43.54225 AU evening set opposition -9518 Jun 21 j 07:10 19°**2**01'31 -15°21'54 conjunction -9525 Dec 09 j 00:25 11°**2**20'07 -13°30'49 direct -9518 Sep 09 j 14:03 17°**£**58'39 -9525 Dec 09 j 00:13 11°**2**20'06 13°30'51 -9518 Dec 14 j 09:56 19°**♀**30'23 minimum elong evening set -9525 Dec 12 j 06:30 11°**º**25'12 44.17994 AU max. Earth dist. -9525 Dec 15 j 22:02 11°**≏**30'53 -9518 Dec 17 j 04:02 19°**2**34'33 -14°46'29 morning rise conjunction -9524 Mar 22 j 04:12 -9518 Dec 17 j 03:51 19°**2**34'32 14°46'36 retrograde 13°**♀**03'37 minimum elong min. Earth dist. -9524 Jun 10 j 16:57 12°**2**01'31 42.34412 AU morning rise -9518 Dec 19 i 21:54 19°**♀**38'43 opposition -9524 Jun 13 i 17:57 11°**£**57'44 -14°15'17 max. Earth dist. -9518 Dec 20 i 02:48 19°**2**39'01 45.56521 AU direct -9524 Sep 01 i 22:59 10°**£**53'47 retrograde -9517 Mar 31 i 06:16 21°**♀**14'58 evening set -9524 Dec 03 j 01:21 12°**£**22'06 min. Earth dist. -9517 Jun 19 j 23:12 20° **2**13'47 43.72659 AU -9517 Jun 22 j 16:37 20°**£**10'27 -15°31'32 opposition -9524 Dec 09 j 11:40 12°**2**32'05 -13°42'54 -9517 Sep 10 j 22:37 19°**♀**07'43 conjunction direct -9524 Dec 09 j 11:26 12°**△**32'04 13°42'58 -9517 Dec 17 j 00:57 20°**£**40′53 minimum elong evening set -9524 Dec 12 j 16:06 12°**♀**37'03 44.38903 AU max. Earth dist. morning rise -9524 Dec 15 j 22:13 12°**-**42′06 conjunction -9517 Dec 18 j 14:07 20°**£**43'13 -14°55'39 retrograde -9523 Mar 23 j 17:34 14°**£**15'07 minimum elong -9517 Dec 18 j 13:57 20°**-**43′12 14°55'49 min. Earth dist. -9523 Jun 12 j 03:33 13°**£**13'14 42.55354 AU morning rise -9517 Dec 20 j 02:59 20°**-**45'32 -9523 Jun 15 j 04:41 13° 209'28 -14°27'29 max. Earth dist. -9517 Dec 21 j 11:43 20°**£**47'36 45.74633 AU opposition 12°**♀**05'42 -9516 Mar 31 j 16:55 22°**£**23'11 direct -9523 Sep 03 j 07:40 retrograde -9523 Dec 04 j 23:58 -9516 Jun 20 j 08:23 21°**£**22'08 43.90732 AU evening set 13°**₽**34'24 min. Earth dist. -9516 Jun 23 j 01:41 opposition 21°**△**18'49 -15°40'44 -9523 Dec 10 j 22:50 -9516 Sep 11 j 07:16 conjunction 13°**£**43'36 -13°54'33 direct 20°**£**16'12 minimum elong -9523 Dec 10 j 22:38 13°**≏**43'36 13°54'37 max. Earth dist. -9523 Dec 14 j 03:05 13°**♀**48'31 44.59520 AU conjunction -9516 Dec 18 j 23:53 21°**£**51'20 -15°04'26 morning rise -9523 Dec 16 j 21:54 13°**£**52'49 minimum elong -9516 Dec 18 j 23:42 21°**≏**51'19 15°04'35 retrograde -9522 Mar 25 j 05:31 15°**2**26′11 max. Earth dist. -9516 Dec 21 j 20:14 21°**⊆**55'37 45.92408 AU -9522 Jun 13 j 16:01 14°**£**24'25 42.75979 AU -9515 Apr 02 j 01:09 23°**♀**30'53 min. Earth dist. retrograde

-9522 Jun 16 j 15:10

opposition

14°**£**20'45 -14°39'14

min. Earth dist.

-9515 Jun 21 j 18:45

22°**£**29'54 44.08508 AU

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9515 in astronomical counting style is the year 9516 BCE in historical counting style. -9515 Jun 24 i 10:44 22° \alpha 26'40 -15°49'30 retrograde -9507 Apr 10 j 17:33 2°M17'43 opposition -9515 Sep 12 j 17:27 21°**£**24'10 min. Earth dist. -9507 Jun 30 j 20:30 1°ML17'32 45.40142 AU direct opposition -9507 Jul 03 j 04:00 1°ML14'46 -16°45'00 -9515 Dec 20 j 09:39 22°**2**58'55 -15°12'48 -9507 Sep 21 j 17:52 direct 0°M-13'23 conjunction 22°**♀**58'55 15°12'58 -9515 Dec 20 j 09:29 minimum elong -9515 Dec 23 j 06:09 -9507 Dec 29 j 09:47 1°M45'39 -16°05'43 max. Earth dist. 23°**೨**03'12 46.09911 AU conjunction -9514 Apr 03 j 05:58 -9507 Dec 29 j 09:39 retrograde 24°**£**38'04 minimum elong 1°M45'38 16°05'57 min. Earth dist. -9514 Jun 23 j 04:12 23°**△**37'12 44.26008 AU max. Earth dist. -9507 Dec 31 j 21:03 1°M49'15 47.39264 AU opposition -9514 Jun 25 j 19:20 23°**£**34'00 -15°57'51 retrograde -9506 Apr 12 j 03:35 3°M21'59 direct -9514 Sep 14 j 06:09 22°**₽**31'38 min. Earth dist. -9506 Jul 02 j 04:15 2°M21'55 45.54722 AU opposition -9506 Jul 04 j 11:21 2°M19'11 -16°50'18 -9514 Dec 21 j 19:03 24°**£**06'02 -15°20'45 -9506 Sep 22 j 23:50 conjunction direct 1°M17'53 -9514 Dec 21 j 18:53 minimum elong 24°**2**06'02 15°20'54 max. Earth dist. -9514 Dec 24 j 13:40 24°**♀**10'11 46.27172 AU conjunction -9506 Dec 30 j 18:12 2°M49'52 -16°10'46 retrograde -9513 Apr 04 j 15:14 25°**£**44'48 minimum elong -9506 Dec 30 j 18:06 2°ML49'52 16°11'02 min. Earth dist. -9513 Jun 24 j 12:49 24°**♀**44'04 44.43280 AU max. Earth dist. -9505 Jan 02 j 04:06 2°M53'22 47.53521 AU opposition -9513 Jun 27 j 03:56 24°**△**40'53 -16°05'46 retrograde -9505 Apr 13 j 12:01 4°M25'52 direct -9513 Sep 15 j 14:47 23°**♀**38'40 min. Earth dist. -9505 Jul 03 j 13:42 3°M25'48 45.68848 AU opposition -9505 Jul 05 j 18:44 3°M23'11 -16°55'15 conjunction -9513 Dec 23 j 04:13 25°**2**12'44 -15°28'17 direct -9505 Sep 24 j 06:36 2°M21'57 minimum elong -9513 Dec 23 j 04:04 25°**2**12'43 15°28'28 max. Earth dist. -9513 Dec 25 i 23:05 25°**2**16'52 46.44197 AU conjunction -9504 Jan 01 i 02:26 3°ML53'39 -16°15'29 retrograde -9512 Apr 05 i 00:43 26°**♀**51'08 minimum elong -9504 Jan 01 i 02:20 3°M53'39 16°15'44 min. Earth dist. -9512 Jun 24 i 23:06 25°**2**50'28 44.60300 AU max. Earth dist. -9504 Jan 03 i 11:52 3°ML57'07 47.67361 AU -9512 Jun 27 i 12:25 25°**£**47'23 -16°13'16 retrograde -9504 Apr 13 j 16:42 5°M29'19 opposition -9512 Sep 15 j 22:50 24°**£**45'19 -9504 Jul 03 j 21:32 4°ML29'19 45.82561 AU direct min. Earth dist. -9504 Jul 06 j 01:50 4°M26'44 -16°59'52 opposition -9512 Dec 23 j 13:27 26°**2**19'03 -15°35'26 -9504 Sep 24 j 17:09 3°M25'36 direct conjunction -9512 Dec 23 j 13:19 26°**№**19'02 15°35'37 minimum elong 26°**2**3'06 46.60978 AU -9512 Dec 26 j 07:07 -9503 Jan 01 j 10:33 4°ML57'01 -16°19'52 max. Earth dist. conjunction -9511 Apr 06 j 10:41 -9503 Jan 01 j 10:28 27°**£**57'05 minimum elong 4°ML57'01 16°20'08 retrograde -9511 Jun 26 j 07:06 -9503 Jan 03 j 17:51 min. Earth dist. 26°**♀**56'35 44.77043 AU max. Earth dist. 5°ML00'21 47.80825 AU -9503 Apr 14 j 23:03 -9511 Jun 28 j 20:29 26°**£**53'31 -16°20'21 6°M<sub>2</sub>32'22 opposition retrograde -9503 Jul 05 j 05:12 -9511 Sep 17 j 06:00 25°**♀**51'35 5°M32'27 45.95938 AU direct min. Earth dist. -9503 Jul 07 j 08:41 5°M29'54 -17°04'07 opposition -9511 Dec 24 j 22:29 27°**£**25'02 -15°42'12 -9503 Sep 26 j 01:38 4°M28'51 conjunction direct -9511 Dec 24 j 22:20 27°**2**25'01 15°42'24 minimum elong max. Earth dist. -9511 Dec 27 j 14:53 27°**2**28'59 46.77451 AU conjunction -9502 Jan 02 j 18:39 6°ML00'01 -16°23'54 retrograde -9510 Apr 07 j 20:21 29°**≙**02'42 minimum elong -9502 Jan 02 j 18:33 6°ML00'01 16°24'10 min. Earth dist. -9510 Jun 27 j 16:58 28°**♀**02'18 44.93463 AU max. Earth dist. -9502 Jan 05 j 01:58 6°M03'20 47.93972 AU opposition -9510 Jun 30 j 04:38 27°**£**59'19 -16°27'03 retrograde -9502 Apr 16 j 05:19 7°M35'04 -9510 Sep 18 j 13:45 26°**♀**57'32 min. Earth dist. -9502 Jul 06 j 13:43 6°M35'11 46.09006 AU direct -9502 Jul 08 j 15:32 6°ML32'43 -17°08'01 opposition -9510 Dec 26 j 07:25 28°**2**30'41 -15°48'35 direct -9502 Sep 27 j 09:58 5°M31'47 conjunction -9510 Dec 26 j 07:18 28°**△**30'41 15°48'48 minimum elong -9510 Dec 28 i 23:33 -9501 Jan 04 i 02:23 7°ML02'41 -16°27'35 max. Earth dist. 28°**2**34'37 46.93577 AU conjunction -9501 Jan 04 i 02:18 -9509 Mar 13 i 02:25 0°M minimum elong 7°M02'41 16°27'52 -9501 Jan 06 i 08:13 retrograde -9509 Apr 09 i 02:12 0°ML08'02 max. Earth dist. 7°ML05'54 48.06845 AU -9509 May 06 i 06:54 30°R<u>Ω</u> retrograde -9501 Apr 17 j 14:09 8°M37'27 min. Earth dist. -9509 Jun 29 i 01:54 29°**2**07'44 45.09482 AU min. Earth dist. -9501 Jul 07 i 20:12 7°ML37'42 46.21805 AU -9509 Jul 01 i 12:30 29°**£**04'48 -16°33'23 opposition -9501 Jul 09 j 22:10 7°M235'15 -17°11'33 opposition direct -9509 Sep 20 j 00:30 28°**₽**03'10 direct -9501 Sep 28 j 15:17 6°MJ34'24 -9500 Jan 05 j 10:04 conjunction -9509 Dec 27 j 16:14 29°**£**36'01 -15°54'38 conjunction 8°M05'06 -16°30'55 -9500 Jan 05 j 10:00 minimum elong -9509 Dec 27 j 16:05 29°**2**36'01 15°54'51 minimum elong 8°ML05'05 16°31'12 -9500 Jan 07 j 14:58 max. Earth dist. -9509 Dec 30 j 06:02 29°**♀**39'48 47.09284 AU max. Earth dist. 8°M08'15 48.19450 AU -9508 Jan 13 j 04:28 0°M retrograde -9500 Apr 17 j 23:19 9°M39'35 -9508 Apr 09 j 10:01 min. Earth dist. -9500 Jul 08 j 04:31 8°M39'53 46.34336 AU retrograde 1°ML13'02 -9508 Jun 29 j 10:35 0°M12'51 45.25065 AU -9500 Jul 10 j 04:46 8°M37'31 -17°14'43 min. Earth dist. opposition -9508 Jul 01 j 20:17  $0^{\circ}$ ML09'58  $-16^{\circ}$ 39'22 -9500 Sep 28 j 20:23 opposition direct 7°M36'48 30°R2 -9508 Jul 10 j 05:08 29°**₽**08'27 direct -9508 Sep 20 j 08:51 conjunction -9499 Jan 05 j 17:51 9°M07'17 -16°33'55 -9508 Nov 29 j 00:09 0°M minimum elong -9499 Jan 05 j 17:47 9°M07'17 16°34'14 max. Earth dist. -9499 Jan 07 j 22:21 9°**ጤ**10'24 48.31792 AU conjunction -9508 Dec 28 j 01:05 0°M41'01 -16°00'20 retrograde -9499 Apr 19 j 05:13 10°M41'31 minimum elong -9508 Dec 28 j 00:59 0°ML41'01 16°00'34 -9499 Jul 09 j 11:33 9°M41'56 46.46562 AU min. Earth dist. max. Earth dist. -9508 Dec 30 j 14:26 0°M44'46 47.24520 AU -9499 Jul 11 j 11:10 9°M39'36 -17°17'34 opposition

•		n -9900 tillough -9390 le year -9499 in astronomica			
direct	-9499 Sep 30 j 04:22	8°M39'00	min. Earth dist.	-9491 Jul 17 j 21:51	17°ML51'00 47.28394 AU
direct	-9499 Sep 30 J 04.22	0 IIG3900		-9491 Jul 17 j 21:31	17°ML49'11 -17°29'22
:	0400 I 07: 01:22	100% 00110 16026125	opposition	3	
conjunction minimum elong	-9498 Jan 07 j 01:23	10°ML09'18 -16°36'35	direct	-9491 Oct 08 j 11:51	16°M49'12
Č	-9498 Jan 07 j 01:20	10°M.09'18 16°36'54	т	0400 1 15:11 20	100 <b>M</b> 1750 1604720
max. Earth dist.	-9498 Jan 09 j 03:49	10°M12'18 48.43810 AU	J	-9490 Jan 15 j 11:38	18°M 17'58 -16°47'30
retrograde	-9498 Apr 20 j 11:45	11°M43'18	minimum elong	-9490 Jan 15 j 11:38	18°M17'58 16°47'54
min. Earth dist.	-9498 Jul 10 j 18:52	10°ML43'49 46.58452 AU		-9490 Jan 17 j 03:06	18°M20'15 49.23631 AU
opposition	-9498 Jul 12 j 17:27	10°M41'32 -17°20'04	retrograde	-9490 Apr 28 j 14:57	19°M50'03
direct	-9498 Oct 01 j 11:23	9° <b>M</b> 41'04	min. Earth dist.	-9490 Jul 19 j 05:21	18°M 50'47 47.36640 AU
	04071 00:00.00	110 <b>W</b> 11110 16020176	opposition	-9490 Jul 20 j 16:33	18°ML49'05 -17°29'31
conjunction	-9497 Jan 08 j 09:00	11°M11'10 -16°38'56	direct	-9490 Oct 09 j 16:16	17° <b>M</b> 49'08
minimum elong	-9497 Jan 08 j 08:56	11°ML11'10 16°39'16	· .	0.400 % 46:40.00	10070 15144 16045104
max. Earth dist.	-9497 Jan 10 j 11:11	11°ML14'09 48.55461 AU	3	-9489 Jan 16 j 18:29	19°M17'44 -16°47'34
retrograde	-9497 Apr 21 j 16:15	12° <b>M</b> .44'57	minimum elong	-9489 Jan 16 j 18:28	19° <b>M</b> .17'44 16°47'57
min. Earth dist.	-9497 Jul 12 j 03:04	11°M45'31 46.69930 AU		-9489 Jan 18 j 09:19	19°M19'59 49.31724 AU
opposition	-9497 Jul 13 j 23:43	11°M43'20 -17°22'15	retrograde	-9489 Apr 29 j 21:37	20°M49'35
direct	-9497 Oct 02 j 20:28	10°M42'58	min. Earth dist.	-9489 Jul 20 j 11:00	19°M50'23 47.44575 AU
			opposition	-9489 Jul 21 j 21:54	19°M48'42 -17°29'22
conjunction	-9496 Jan 09 j 16:25	12°M12'54 -16°41'00	direct	-9489 Oct 10 j 21:22	18°M48'48
minimum elong	-9496 Jan 09 j 16:23	12°M12'54 16°41'20			
max. Earth dist.	-9496 Jan 11 j 16:26	12°M15'44 48.66684 AU	•	-9488 Jan 18 j 01:01	20°M17'15 -16°47'21
retrograde	-9496 Apr 22 j 01:25	13°M46'27	minimum elong	-9488 Jan 18 j 01:01	20°Ml17'15 16°47'45
min. Earth dist.	-9496 Jul 12 j 09:44	12°M47'07 46.80939 AU	J max. Earth dist.	-9488 Jan 19 j 13:55	20°ML19'24 49.39518 AU
opposition	-9496 Jul 14 j 05:52	12°M44'58 -17°24'09	retrograde	-9488 Apr 30 j 03:44	21°M48'55
direct	-9496 Oct 03 j 01:11	11° <b>M</b> 44'42	min. Earth dist.	-9488 Jul 20 j 17:32	20°M49'44 47.52219 AU
			opposition	-9488 Jul 22 j 03:17	20°M48'07 -17°28'54
conjunction	-9495 Jan 09 j 23:57	13°M14'27 -16°42'47	direct	-9488 Oct 11 j 03:05	19° <b>M</b> 48'17
minimum elong	-9495 Jan 09 j 23:53	13°M14'27 16°43'07			
max. Earth dist.	-9495 Jan 11 j 22:29	13°ML17'11 48.77398 AU	J conjunction	-9487 Jan 18 j 07:48	21°M16'35 -16°46'49
retrograde	-9495 Apr 23 j 10:37	14° <b>M</b> 47'46	minimum elong	-9487 Jan 18 j 07:49	21°ML16'35 16°47'12
min. Earth dist.	-9495 Jul 13 j 18:21	13°ML48'26 46.91425 AU	J max. Earth dist.	-9487 Jan 19 j 20:34	21°ML18'43 49.47014 AU
opposition	-9495 Jul 15 j 11:58	13°ML46'25 -17°25'46	retrograde	-9487 May 01 j 06:09	22°M48'04
direct	-9495 Oct 04 j 04:51	12°M46'13	min. Earth dist.	-9487 Jul 22 j 00:11	21°ML48'55 47.59537 AU
			opposition	-9487 Jul 23 j 08:26	21°ML47'22 -17°28'08
conjunction	-9494 Jan 11 j 07:28	14°ML15'47 -16°44'17	direct	-9487 Oct 12 j 11:50	20°M47'36
minimum elong	-9494 Jan 11 j 07:27	14°ML15'47 16°44'38		,	
max. Earth dist.	-9494 Jan 13 j 04:52	14°ML18'27 48.87593 AU	J conjunction	-9486 Jan 19 j 14:25	22°M15'47 -16°46'00
	-9494 Feb 12 j 23:18	15° <b>M</b> ₊	minimum elong	-9486 Jan 19 j 14:26	22°M15'48 16°46'25
retrograde	-9494 Apr 24 j 15:57	15°ML48'50	max. Earth dist.	-9486 Jan 21 j 01:10	22°M17'48 49.54189 AU
C	-9494 Jul 06 j 00:39	15°RM	retrograde	-9486 May 02 j 12:45	23°M47'06
min. Earth dist.	-9494 Jul 15 j 01:09	14°ML49'34 47.01369 AU	Č	-9486 Jul 23 j 05:43	22°M48'03 47.66512 AU
opposition	-9494 Jul 16 j 17:55	14°ML47'35 -17°27'06	opposition	-9486 Jul 24 i 13:34	22°M46'31 -17°27'05
direct	-9494 Oct 05 j 13:08	13°M47'27	direct	-9486 Oct 13 j 17:01	21°M46'49
	-9494 Dec 31 j 13:52	15°M		,	
	, ,, , = or or j		conjunction	-9485 Jan 20 j 20:51	23°M14'54 -16°44'55
conjunction	-9493 Jan 12 j 14:31	15°M16'49 -16°45'31	minimum elong	-9485 Jan 20 j 20:53	23°M14'55 16°45'19
minimum elong	-9493 Jan 12 j 14:28	15°M16'49 16°45'52	max. Earth dist.	-9485 Jan 22 j 06:37	23°M16'51 49.60980 AU
max. Earth dist.	-9493 Jan 14 j 09:21	15°ML19'20 48.97261 AU		-9485 May 03 j 20:59	24°M46'04
retrograde	-9493 Apr 25 j 20:58	16°M49'38	opposition	-9485 Jul 25 j 18:46	23°M45'35 -17°25'45
min. Earth dist.	-9493 Jul 16 j 08:29	15°M,50'21 47.10816 AU		-9485 Jul 24 j 13:12	23°M47'01 47.73078 AU
opposition	-9493 Jul 17 j 23:49	15°M48'27 -17°28'09	direct	-9485 Oct 14 j 20:11	22°M45'58
оррозиюн	-9493 Sep 04 j 07:36	15°RM	uncet	7405 Oct 14 j 20.11	22 110-13 30
direct	-9493 Oct 06 j 20:53	14°M48'22	conjunction	-9484 Jan 22 j 03:32	24°M13'58 -16°43'33
direct	-9493 Nov 08 j 05:02	15°M	minimum elong	-9484 Jan 22 j 03:33	24°ML13'58 16°43'59
	-9493 NOV 08 J 03.02	13 114	max. Earth dist.	-9484 Jan 23 j 12:08	24°M15'50 49.67347 AU
conjunction	-9492 Jan 13 j 21:43	16°M17'32 -16°46'28	retrograde	-9484 May 04 j 02:41	25°M44'58
minimum elong		16°M17'32 -16°46'50	•	-9484 Jul 25 j 23:41	24°M44'36 -17°24'09
_	-9492 Jan 13 j 21:43		opposition	-	
max. Earth dist.	-9492 Jan 15 j 16:18	16°ML20'02 49.06454 AU		-9484 Jul 24 j 18:54	24°M45'58 47.79168 AU
retrograde	-9492 Apr 26 j 00:31	17°M50'06	direct	-9484 Oct 15 j 01:52	23°M45'02
min. Earth dist.	-9492 Jul 16 j 16:03	16°M.50'48 47.19800 AU		0402 1 22:10.00	0.50M 10157 17041157
opposition	-9492 Jul 18 j 05:29	16°M48'59 -17°28'54	conjunction	-9483 Jan 22 j 10:08	25°M12'56 -16°41'57
direct	-9492 Oct 07 j 05:51	15° <b>M</b> 48'57	minimum elong	-9483 Jan 22 j 10:11	25°M12'56 16°42'22
	0401 * 44104	170W 17155 150:	max. Earth dist.	-9483 Jan 23 j 16:05	25°M14'39 49.73209 AU
conjunction	-9491 Jan 14 j 04:46	17°M17'55 -16°47'08	retrograde	-9483 May 05 j 08:27	26°M43'47
minimum elong	-9491 Jan 14 j 04:44	17° <b>M</b> .17'54 16°47'30	min. Earth dist.	-9483 Jul 26 j 01:47	25°M44'47 47.84744 AU
max. Earth dist.	-9491 Jan 15 j 21:14	17°M20'16 49.15232 AU	* *	-9483 Jul 27 j 04:47	25°M43'30 -17°22'18
retrograde	-9491 Apr 27 j 07:06	18°ML50'14	direct	-9483 Oct 16 j 07:46	24°M43'59

•			•	* *	r 9483 BCE in historical c		E 31
conjunction	-9482 Jan 23 j 16:45	16 year -9482 1 26°M11'48		direct	-9475 Oct 24 j 04:07	2° <b>₹</b> 29'31	
minimum elong	-9482 Jan 23 j 16:46	26°M11'48		direct	-9473 Oct 24 J 04.07	2 8.2931	
max. Earth dist.	-9482 Jan 24 j 22:04		49.78540 AU	conjunction	-9474 Jan 31 j 18:09	3° <b>.7</b> 156'30	-16°15'58
retrograde	-9482 May 06 j 11:11	20 IL 13 29 27° IL 42'29	49.76340 AU	minimum elong	-9474 Jan 31 j 18:14		16°16'27
min. Earth dist.	-9482 Jul 27 j 08:38		47.89768 AU	max. Earth dist.	-9474 Feb 01 j 12:59		50.06274 AU
opposition	-9482 Jul 28 j 09:43	26°M42'17		retrograde	-9474 May 14 j 07:46	5° <b>x</b> 26'16	30.00274 AU
direct	-9482 Oct 17 j 16:18	25°M42'48	-17 2013	opposition	-9474 Aug 04 j 22:28	4° <b>₹</b> 26'30	-16°53'47
direct	-7402 Oct 17 j 10.10	23 11042 40		min. Earth dist.	-9474 Aug 04 j 05:56		48.15632 AU
conjunction	-9481 Jan 24 j 23:09	27°M10'30	-16°38'00	direct	-9474 Oct 25 j 07:45	3° <b>₹</b> 27'12	48.13032 AU
minimum elong	-9481 Jan 24 j 23:13	27°M10'30		direct	-)+/+ Oct 25 j 07.+5	3 7 2/12	
max. Earth dist.	-9481 Jan 26 j 02:01		49.83354 AU	conjunction	-9473 Feb 02 j 00:05	4° <b>∡</b> ′54'19	16011144
retrograde	-9481 May 07 j 16:48	28°M41'03	49.83334 AU	minimum elong	-9473 Feb 02 j 00:09	4° <b>х</b> 54'19	
opposition	-9481 Jul 29 j 14:31	27°M40'53	17017152	max. Earth dist.	-9473 Feb 02 j 16:41		50.08271 AU
min. Earth dist.	-9481 Jul 28 j 14:02		47.94294 AU	retrograde	-9473 May 15 j 14:23	6° <b>₹</b> 23'50	30.06271 AU
direct	-9481 Oct 18 j 21:48	26°M41'26	47.94294 AU	opposition	-9473 Aug 06 j 02:53	5° <b>x</b> 23' 30'	16940!15
direct	-9461 Oct 16 J 21.46	20 11641 20		min. Earth dist.	-9473 Aug 00 j 02:33		48.17366 AU
conjunction	-9480 Jan 26 j 05:27	28°M09'01	16025120	direct	-9473 Oct 26 j 11:36	4° <b>₹</b> 24'53	46.17300 AU
3				direct	-94/3 Oct 20 J 11.30	4 X · 24 33	
minimum elong	-9480 Jan 26 j 05:29	28°M09'01		:	0472 E-L 02 : 06.11	50. <b>7</b> 51150	-16°07'16
max. Earth dist.	-9480 Jan 27 j 07:00		49.87679 AU	conjunction	-9472 Feb 03 j 06:11		
retrograde	-9480 May 07 j 23:44	29°M39'25	17015115	minimum elong	-9472 Feb 03 j 06:17		16°07'45
opposition	-9480 Jul 29 j 19:22	28°M39'18		max. Earth dist.	-9472 Feb 03 j 22:25		50.09857 AU
min. Earth dist.	-9480 Jul 28 j 21:12		47.98355 AU	retrograde	-9472 May 15 j 16:54	7° <b>∡</b> 1'25	1.604.4100
direct	-9480 Oct 19 j 02:01	27°M39'52		opposition	-9472 Aug 06 j 07:20	6° <b>₹</b> 21'47	
	0.450 x 0.000 11.50	200 <b>W</b> 07121	1.0000100	min. Earth dist.	-9472 Aug 05 j 18:15		48.18633 AU
conjunction	-9479 Jan 26 j 11:50	29°M07'21		direct	-9472 Oct 26 j 19:26	5° <b>∡</b> ¹22'32	
minimum elong	-9479 Jan 26 j 11:55	29°M07'21	16°33'31			co = 1010 c	
max. Earth dist.	-9479 Jan 27 j 12:29		49.91584 AU	conjunction	-9471 Feb 03 j 12:18		-16°02'34
	-9479 Mar 08 j 10:02	0° <b>∡</b> 7		minimum elong	-9471 Feb 03 j 12:22	6° <b>₹</b> 149'36	
retrograde	-9479 May 09 j 06:46	0° <b>∡</b> ³37'34		max. Earth dist.	-9471 Feb 04 j 01:53		50.10960 AU
	-9479 Jul 10 j 21:26	30°RM		retrograde	-9471 May 16 j 21:36	8° <b>∡</b> 18'58	
opposition	-9479 Jul 30 j 23:53	29° <b>™</b> 37'30		opposition	-9471 Aug 07 j 11:38		-16°39'26
min. Earth dist.	-9479 Jul 30 j 02:13		48.02013 AU	min. Earth dist.	-9471 Aug 06 j 23:23		48.19397 AU
direct	-9479 Oct 20 j 05:38	28°M38'05		direct	-9471 Oct 28 j 00:53	6° <b>∡</b> 720′08	
	-9478 Jan 23 j 17:59	0° <b>∡</b> ¹					
				conjunction	-9470 Feb 04 j 18:26		-15°57'38
conjunction	-9478 Jan 27 j 17:59		-16°30'11	minimum elong	-9470 Feb 04 j 18:33	7° <b>∡</b> 747'11	
minimum elong	-9478 Jan 27 j 18:02	0° <b>∡</b> 05'29	16°30'38	max. Earth dist.	-9470 Feb 05 j 06:33		50.11533 AU
max. Earth dist.	-9478 Jan 28 j 16:28	0° <b>∡</b> 06'45	49.95114 AU	retrograde	-9470 May 18 j 03:00	9° <b>∡</b> 16′28	
retrograde	-9478 May 10 j 13:00	1° <b>∡</b> 35'32		opposition	-9470 Aug 08 j 16:09	8° <b>∡</b> 16'54	
min. Earth dist.	-9478 Jul 31 j 08:14		48.05338 AU	min. Earth dist.	-9470 Aug 08 j 06:22		48.19623 AU
opposition	-9478 Aug 01 j 04:33	0° <b>∡</b> 35'32	-17°09'14	direct	-9470 Oct 29 j 06:00	7° <b>∡</b> 17'40	
	-9478 Sep 03 j 08:32	30°RM					
direct	-9478 Oct 21 j 09:59	29° <b>™</b> 36′07		conjunction	-9469 Feb 06 j 00:23	8° <b>,₹</b> 44'39	
	-9478 Dec 08 j 05:35	0°⊀		minimum elong	-9469 Feb 06 j 00:28	8° <b>х</b> ⁴44'39	15°52'58
				max. Earth dist.	-9469 Feb 06 j 11:15	8° <b>∡</b> ¹45'16	50.11592 AU
conjunction	-9477 Jan 29 j 00:00	1° <b>∡</b> 03′26	-16°27'03	retrograde	-9469 May 19 j 09:34	10° <b>∡</b> 13'51	
minimum elong	-9477 Jan 29 j 00:05		16°27'31	opposition	-9469 Aug 09 j 20:27	9° <b>∤</b> 14'19	-16°28'42
max. Earth dist.	-9477 Jan 29 j 22:27	1° <b>₹</b> 04'42	49.98332 AU	min. Earth dist.	-9469 Aug 09 j 11:20	9° <b>∡</b> 14'45	48.19331 AU
retrograde	-9477 May 11 j 14:11	2° <b>∡</b> ³33′22		direct	-9469 Oct 30 j 09:43	8° <b>∡</b> 15'04	
opposition	-9477 Aug 02 j 09:09	1° <b>∡</b> ³33′24	-17°05'47				
min. Earth dist.	-9477 Aug 01 j 14:03	1° <b>∡</b> ³34'19	48.08350 AU	conjunction	-9468 Feb 07 j 06:21	9° <b>∡</b> ′42′01	-15°47'04
direct	-9477 Oct 22 j 18:25	0° <b>∡</b> ³34′00		minimum elong	-9468 Feb 07 j 06:28	9° <b>∡</b> ¹42'02	15°47'35
				max. Earth dist.	-9468 Feb 07 j 14:43	9° <b>х</b> 42′30	50.11148 AU
conjunction	-9476 Jan 30 j 06:02	2° <b>∡</b> °01'14	-16°23'38	retrograde	-9468 May 19 j 16:23	11° <b>∡</b> 11'07	
minimum elong	-9476 Jan 30 j 06:06	2° <b>∡</b> °01'15	16°24'05	opposition	-9468 Aug 10 j 00:41	10° <b>∡</b> 11'36	-16°22'59
max. Earth dist.	-9476 Jan 31 j 02:33	2° <b>∡</b> 02'25	50.01271 AU	min. Earth dist.	-9468 Aug 09 j 17:25	10° <b>∡</b> 11'57	48.18575 AU
retrograde	-9476 May 11 j 18:26	3° <b>∡</b> °31′04		direct	-9468 Oct 30 j 12:59	9° <b>∡</b> 12'19	
opposition	-9476 Aug 02 j 13:33	2° <b>҂</b> 31′09	-17°02'04				
min. Earth dist.	-9476 Aug 01 j 18:43	2° <b>х</b> ³32′03	48.11088 AU	conjunction	-9467 Feb 07 j 12:28	10° <b>∡</b> "39′15	-15°41'26
direct	-9476 Oct 23 j 00:43	1° <b>∡</b> ³31'47		minimum elong	-9467 Feb 07 j 12:35	10° <b>∡</b> "39′16	15°41'57
				max. Earth dist.	-9467 Feb 07 j 20:22	10° <b>∡</b> "39′42	50.10266 AU
conjunction	-9475 Jan 30 j 12:08	2° <b>∡</b> ′58'58	-16°19'56	retrograde	-9467 May 20 j 18:41	12° <b>∡</b> °08′16	
minimum elong	-9475 Jan 30 j 12:12	2° <b>≯</b> 58'58	16°20'25	opposition	-9467 Aug 11 j 04:57	11° <b>∡</b> °08'46	-16°17'00
max. Earth dist.	-9475 Jan 31 j 07:48	3° <b>₰</b> 00'05	50.03921 AU	min. Earth dist.	-9467 Aug 10 j 23:04	11° <b>₹</b> ′09′03	48.17391 AU
retrograde	-9475 May 13 j 01:45	4° <b>∡</b> °28'41		direct	-9467 Oct 31 j 20:22	10° <b>∡</b> °09′27	
opposition	-9475 Aug 03 j 18:08	3° <b>∡</b> 128'51	-16°58'04				
min. Earth dist.	-9475 Aug 03 j 01:20	3° <b>х</b> 29′39	48.13526 AU	conjunction	-9466 Feb 08 j 18:16	11° <b>∡</b> ³36′23	-15°35'33

-	nical year style is used: Th		•	/ /		, ,	ge 32
minimum elong	-9466 Feb 08 j 18:23	e year -9466∶ 11° <b>√</b> 36'23		conjunction	-9458 Feb 16 j 17:47	:ounting style 14'24 <b>آج</b> 19°	
max. Earth dist.	-9466 Feb 09 j 00:06		50.08999 AU	minimum elong	-9458 Feb 16 j 17:55	19° <b>х</b> *14′24	
retrograde	-9466 May 21 j 22:05	13° <b>x</b> 05'19	30.08999 AU	max. Earth dist.	-9458 Feb 16 j 12:03		49.86596 AU
opposition	-9466 Aug 12 j 09:05	13 <b>✗</b> 05 19 12° <b>✗</b> 05 '50	-16°10′46	morning rise	-9458 Feb 20 j 04:33	19° <b>х</b> 14°05 19° <b>х</b> 19′05	49.80390 AU
min. Earth dist.	-9466 Aug 12 j 03:43		48.15857 AU	retrograde	-9458 May 29 j 20:55	19 <b>₹</b> 1903 20° <b>₹</b> 43'17	
direct	-9466 Nov 02 j 02:41	12 <b>x</b> 00 03	40.13037 AU	opposition	-9458 Aug 19 j 19:00	19° <b>х</b> 44'03	15011!29
direct	-9400 NOV 02 J 02.41	11 🗴 00 30		min. Earth dist.	-9458 Aug 20 j 00:30		47.90954 AU
conjunction	-9465 Feb 10 j 00:08	12° <b>∡</b> '33'25	-15°20'25	direct	-9458 Nov 09 j 11:52	18° <b>×</b> 4347	47.90934 AU
minimum elong	-9465 Feb 10 j 00:15	12 × 33 23 12° × 33'26		evening set	-9457 Feb 13 j 22:36	20° <b>₹</b> 06'31	
max. Earth dist.	-9465 Feb 10 j 05:03		50.07393 AU	evening set	-943/ FC0 13 J 22.30	20 🗴 00 31	
retrograde	-9465 May 23 j 04:04	14° × 02'20	30.07393 AO	conjunction	-9457 Feb 17 j 23:58	20° <b>₹</b> 12'01	14031115
opposition	-9465 Aug 13 j 13:20	13° <b>₹</b> 02 20	-16°04'15	minimum elong	-9457 Feb 18 j 00:08	20° × 12'02	
min. Earth dist.	-9465 Aug 13 j 09:54		48.14005 AU	max. Earth dist.	-9457 Feb 17 j 17:32		49.81746 AU
direct	-9465 Nov 03 j 06:44	12°× 03'01	40.14003 AO	morning rise	-9457 Feb 22 j 01:42	20° 🖈 17'32	47.01740 AC
direct	-2403 NOV 03 J 00.44	12 × 03 31		retrograde	-9457 May 31 j 00:20	20 × 17 32 21° × 40'54	
conjunction	-9464 Feb 11 j 06:00	13° <b>∡</b> ³30′27	-15°23'00	opposition	-9457 Aug 20 j 23:17	20° <b>х</b> 41'38	-15°02'58
minimum elong	-9464 Feb 11 j 06:08	13° <b>∡</b> 30′27 13° <b>∡</b> 30′27		min. Earth dist.	-9457 Aug 20 j 25:17		47.85710 AU
max. Earth dist.	-9464 Feb 11 j 10:05		50.05502 AU	direct	-9457 Nov 10 j 18:34	19° 🖈 42'12	47.03710 AC
retrograde	-9464 May 23 j 10:22	14° <b>x</b> 50'41	30.03302 AO	evening set	-9456 Feb 14 j 15:28	21°× 03'21	
opposition	-9464 Aug 13 j 17:30	13° <b>x</b> 59'53	-15°57'28	evening set	-7430100 14 j 13.20	21 × 03 21	
min. Earth dist.	-9464 Aug 13 j 14:12		48.11852 AU	conjunction	-9456 Feb 19 j 05:58	21° <b>₹</b> '09'36	-14°22'56
direct	-9464 Nov 03 j 09:38	13° <b>₹</b> 00'02	46.11632 AU	minimum elong	-9456 Feb 19 j 06:07	21°×709'37	
direct	-9404 NOV 03 J 09.38	13 × 00 32		max. Earth dist.	-9456 Feb 18 j 21:03		49.76387 AU
conjunction	-9463 Feb 11 j 11:51	14° <b>∡</b> ¹27'31	15016121	morning rise	-9456 Feb 23 j 20:52	21° <b>x</b> 15'52	49.70387 AU
minimum elong	-9463 Feb 11 j 11:59	14 <b>x</b> 2/31 14° <b>x</b> 27'31		retrograde	-9456 May 31 j 02:48	21° 🖈 13'32 22° 🖈 38'28	
max. Earth dist.	-9463 Feb 11 j 13:51		50.03307 AU	opposition	-9456 Aug 21 j 03:31	21°× 30'20	14054115
retrograde	-9463 May 24 j 16:56	15° <b>x</b> 56'21	30.03307 AU	min. Earth dist.	-9456 Aug 21 j 11:30		47.79980 AU
opposition	-9463 Aug 14 j 21:41	13 <b>x</b> 36 21 14° <b>x</b> 56'58	15050126	direct	-9456 Nov 11 j 01:52	21 × 3646 20° × 39'40	47.79980 AU
min. Earth dist.	-9463 Aug 14 j 19:59		48.09403 AU	evening set	-9455 Feb 14 j 09:36	20 <b>x</b> 39 40 22° <b>x</b> 00'12	
direct	-9463 Nov 04 j 13:09	13° <b>x</b> 57'02	46.09403 AO	evening set	-9433 FC0 14 J 09.30	22 🗴 00 12	
direct	-9403 NOV 04 J 13.09	13 * 3/3/		conjunction	-9455 Feb 19 j 12:07	22° <b>₹</b> 07'08	1.401.4123
conjunction	-9462 Feb 12 j 17:51	15° <b>∡</b> '24'39	15000'25	minimum elong	-9455 Feb 19 j 12:17	22° <b>x</b> '07'08 22° <b>x</b> '07'09	
minimum elong	-9462 Feb 12 j 17:59	15° <b>×</b> 24'40		max. Earth dist.	-9455 Feb 19 j 01:55		49.70548 AU
max. Earth dist.	-9462 Feb 12 j 19:43		50.00806 AU	morning rise	-9455 Feb 24 i 15:03	22° 🖈 14'05	47.70540 AC
retrograde	-9462 May 25 j 19:29	16° × 24 43	30.00000 AC	retrograde	-9455 Jun 01 i 06:50	23°×736'00	
opposition	-9462 Aug 16 j 01:57	15° <b>х</b> 54'08	-15°43'07	opposition	-9455 Aug 22 j 07:48	22° <b>₹</b> 36'41	-14°45'16
min. Earth dist.	-9462 Aug 16 j 01:30		48.06613 AU	min. Earth dist.	-9455 Aug 22 j 17:59		47.73805 AU
direct	-9462 Nov 05 j 20:24	14° <b>×</b> 54'49	10.00013710	direct	-9455 Nov 12 i 08:09	21° <b>×</b> <sup>3</sup> 37'05	17.75005 110
ancet	71021107 05 j 20.21	11 7 51 15		evening set	-9454 Feb 15 j 04:38	22° <b>х</b> 57'03	
conjunction	-9461 Feb 13 j 23:34	16° <b>∡</b> ¹21'55	-15°02'15	evening sec	71311 <b>c</b> 0 13 j 01.30	22 7 37 03	
minimum elong	-9461 Feb 13 j 23:43	16° <b>₹</b> 21'55		conjunction	-9454 Feb 20 j 18:12	23° <b>҂</b> 04'36	-14°05'35
max. Earth dist.	-9461 Feb 13 j 23:13		49.97954 AU	minimum elong	-9454 Feb 20 j 18:21	23° <b>х</b> 04'37	
retrograde	-9461 May 27 j 00:07	17° <b>х</b> 50'45	1,5,5,7,01.110	max. Earth dist.	-9454 Feb 20 i 06:59		49.64318 AU
opposition	-9461 Aug 17 j 06:07	16° <b>∡</b> 751'27	-15°35'33	morning rise	-9454 Feb 26 j 08:07	23° <b>₹</b> 12'11	
min. Earth dist.	-9461 Aug 17 j 06:19		48.03444 AU	retrograde	-9454 Jun 02 j 13:07	24° <b>∡</b> ³33'28	
direct	-9461 Nov 07 j 01:46	15° <b>₹</b> ′52'08		opposition	-9454 Aug 23 j 12:02	23° <b>∡</b> ³34′07	-14°36'02
evening set	-9460 Feb 13 j 14:02	17° <b>∡</b> 17'04		min. Earth dist.	-9454 Aug 23 j 22:23		47.67259 AU
Z .	. ,			direct	-9454 Nov 13 j 11:36	22° <b>∡</b> ³34′26	-
conjunction	-9460 Feb 15 j 05:38	17° <b>∡</b> 19'18	-14°54'50	evening set	-9453 Feb 16 j 00:02	23° <b>₹</b> 53'53	
minimum elong	-9460 Feb 15 j 05:46	17° <b>∡</b> 19'18	14°55'23	max. Earth dist.	-9453 Feb 21 j 10:47	24° <b>∡</b> *01'17	49.57735 AU
max. Earth dist.	-9460 Feb 15 j 04:00	17° <b>∡</b> 19'12	49.94672 AU		,		
morning rise	-9460 Feb 16 j 21:32	17° <b>∡</b> ¹21'33		conjunction	-9453 Feb 22 j 00:00	24° <b>∡</b> 02'02	-13°56'33
retrograde	-9460 May 27 j 05:20	18° <b>∡</b> ¹48'10		minimum elong	-9453 Feb 22 j 00:11	24° <b>∡</b> 02'02	
opposition	-9460 Aug 17 j 10:22	17° <b>∡</b> ¹48'55	-15°27'45	morning rise	-9453 Feb 28 i 00:27	24° <b>∡</b> 10'12	
min. Earth dist.	-9460 Aug 17 j 13:06		47.99810 AU	retrograde	-9453 Jun 03 j 20:01	25° <b>∡</b> ³30'55	
direct	-9460 Nov 07 j 06:47	16° <b>∡</b> ¹49'35		opposition	-9453 Aug 24 j 16:24	24° <b>∡</b> ³31'31	-14°26'32
evening set	-9459 Feb 12 j 19:24	18° <b>∡</b> 13′10		min. Earth dist.	-9453 Aug 25 j 04:27		47.60395 AU
-	·			direct	-9453 Nov 14 j 14:44	23° <b>∡</b> ³31'47	
conjunction	-9459 Feb 15 j 11:49	18° <b>∡</b> 16'49	-14°47'12	evening set	-9452 Feb 16 j 20:18	24° <b>₹</b> ′50'45	
minimum elong	-9459 Feb 15 j 11:59	18° <b>∡</b> 16'49	14°47'44	-	·		
max. Earth dist.	-9459 Feb 15 j 08:51	18° <b>∡</b> 16'39	49.90908 AU	conjunction	-9452 Feb 23 j 06:11	24° <b>₹</b> 59'27	-13°47'14
morning rise	-9459 Feb 18 j 04:36	18° <b>∡</b> "20′29		minimum elong	-9452 Feb 23 j 06:21	24° <b>₹</b> 59'28	13°47'47
retrograde	-9459 May 28 j 12:31	19° <b>∡</b> ⁴45'42		max. Earth dist.	-9452 Feb 22 j 16:51	24° <b>₹</b> 58'42	49.50853 AU
opposition	-9459 Aug 18 j 14:38	18° <b>∡</b> ¹46'27	-15°19'43	morning rise	-9452 Feb 29 j 16:27	25° <b>∡</b> '08'11	
min. Earth dist.	-9459 Aug 18 j 18:05	18° <b>∡</b> ¹46′18	47.95654 AU	retrograde	-9452 Jun 03 j 23:48	26° <b>₹</b> 28'21	
direct	-9459 Nov 08 j 09:59	17° <b>∡</b> °47′06		opposition	-9452 Aug 24 j 20:39	25° <b>∡</b> ¹28'56	-14°16'46
evening set	-9458 Feb 13 j 07:22	19° <b>∡</b> *09'45		min. Earth dist.	-9452 Aug 25 j 09:39	25° <b>∡</b> ¹28'19	47.53229 AU

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 33 Attention, astronomical year style is used: The year -9452 in astronomical counting style is the year 9453 BCE in historical counting style.

Attention, astronomical year style is used: The year -9452 in astronomical counting style is the year 9453 BCE in historical counting style.							
direct	-9452 Nov 14 j 21:11	24° <b>₹</b> 29'08		max. Earth dist.	-9445 Mar 01 j 02:11	1° <b>る</b> 43'50	48.92898 AU
evening set	-9451 Feb 16 j 17:06	25° <b>∡</b> 147'41					
				conjunction	-9445 Mar 02 j 02:23	1° <b>る</b> 45'13	
conjunction	-9451 Feb 23 j 12:17	25° <b>₹</b> 56'56	-13°37'40	minimum elong	-9445 Mar 02 j 02:33	1° <b>る</b> 45'14	12°35'32
minimum elong	-9451 Feb 23 j 12:27	25° <b>₹</b> 56'56		morning rise	-9445 Mar 10 j 23:38	1° <b>る</b> 57'22	
max. Earth dist.	-9451 Feb 22 j 20:50		49.43692 AU	retrograde	-9445 Jun 11 j 13:22	3° <b>る</b> 14'45	
morning rise	-9451 Mar 02 j 07:58	26° <b>₹</b> 06'11		opposition	-9445 Sep 01 j 04:26	2° <b>る</b> 15'13	
retrograde	-9451 Jun 05 j 04:28	27° <b>₹</b> 25'52		min. Earth dist.	-9445 Sep 02 j 03:07		46.92803 AU
opposition	-9451 Aug 26 j 01:00	26° <b>≯</b> 26'27		direct	-9445 Nov 22 j 10:05	1° <b>る</b> 15'00	
min. Earth dist.	-9451 Aug 26 j 14:29		47.45787 AU	evening set	-9444 Feb 22 j 04:49	2° <b>る</b> 31'19	
direct	-9451 Nov 16 j 02:55	25° <b>≯</b> 26'35		max. Earth dist.	-9444 Mar 01 j 07:32	2°₹42'24	48.82762 AU
evening set	-9450 Feb 17 j 14:05	26° <b>≯</b> 44'44				_	
				conjunction	-9444 Mar 02 j 09:02	2° <b>る</b> 43'52	
conjunction	-9450 Feb 24 j 18:23	26° <b>≯</b> 54'30		minimum elong	-9444 Mar 02 j 09:14	2° <b>る</b> 43'53	12°24'15
minimum elong	-9450 Feb 24 j 18:34	26° <b>≯</b> 54'31		morning rise	-9444 Mar 11 j 13:35	2° <b>る</b> 56'27	
max. Earth dist.	-9450 Feb 24 j 02:08		49.36232 AU	retrograde	-9444 Jun 11 j 20:13	4° <b>る</b> 13'30	
morning rise	-9450 Mar 03 j 23:06	27° <b>∡</b> *04'17 −		opposition	-9444 Sep 01 j 09:00	3° <b>る</b> 13'54	
retrograde	-9450 Jun 06 j 08:42	28° <b>₹</b> 23'32		min. Earth dist.	-9444 Sep 02 j 08:11		46.82276 AU
opposition	-9450 Aug 27 j 05:29	27° <b>∡</b> ¹24'05		direct	-9444 Nov 22 j 14:01	2° <b>る</b> 13'35	
min. Earth dist.	-9450 Aug 27 j 20:58		47.38033 AU	evening set	-9443 Feb 22 j 04:17	3° <b>ට</b> 29'39	
direct	-9450 Nov 17 j 08:43	26° <b>₹</b> 24'11		max. Earth dist.	-9443 Mar 02 j 11:48	3° <b>℃</b> 41'02	48.72165 AU
evening set	-9449 Feb 18 j 11:41	27° <b>х</b> 41'59					
max. Earth dist.	-9449 Feb 25 j 07:26	27° <b>×</b> ′51'16	49.28460 AU	conjunction	-9443 Mar 03 j 15:40	3°る42'37	
	0440 71 46:00 26	250 7504 4	12015145	minimum elong	-9443 Mar 03 j 15:51	3°₹42'38	12°12'43
conjunction	-9449 Feb 26 j 00:36	27° <b>₹</b> 52'14		morning rise	-9443 Mar 13 j 03:28	3° <b>る</b> 55'38	
minimum elong	-9449 Feb 26 j 00:47	27° 🖈 52'15	13°18'20	retrograde	-9443 Jun 13 j 03:57	5°る12'22	10005110
morning rise	-9449 Mar 05 j 13:55	28° <b>₹</b> 02'32		opposition	-9443 Sep 02 j 13:51		-12°37'10
retrograde	-9449 Jun 07 j 14:58	29° 🖈 21'22	12045150	min. Earth dist.	-9443 Sep 03 j 15:03		46.71333 AU
opposition	-9449 Aug 28 j 09:47	28° 🖈 21'55		direct	-9443 Nov 23 j 17:00	3°₹12'16	
min. Earth dist.	-9449 Aug 29 j 01:40		47.29928 AU	evening set	-9442 Feb 23 j 03:49	4° <b>る</b> 28'05	
direct	-9449 Nov 18 j 12:46	27° 🖈 21'58			0442.14 04:22.16	40741120	12000121
evening set	-9448 Feb 19 j 09:36	28° 🗷 39'26	40 20205 ATT	conjunction	-9442 Mar 04 j 22:16	4°る41'29	
max. Earth dist.	-9448 Feb 26 j 11:18	28° <b>×</b> '49'04	49.20295 AU	minimum elong	-9442 Mar 04 j 22:28	4°る41'29	48.61178 AU
. ,.	0440 F 1 27 : 06 54	200 750111	12007124	max. Earth dist.	-9442 Mar 03 j 18:12	4°る39'52 4°る54'55	48.611/8 AU
conjunction	-9448 Feb 27 j 06:54			morning rise	-9442 Mar 14 j 16:54		
minimum elong	-9448 Feb 27 j 07:05	28° ₹ 50′12 29° ₹ 00′58	13-0/38	retrograde	-9442 Jun 14 j 09:02	6°る11'20	1292450
morning rise	-9448 Mar 06 j 04:43	29° <b>メ</b> ・00'38		opposition	-9442 Sep 03 j 18:41		-12°24'50 46.60020 AU
	-9448 Apr 25 j 17:08 -9448 Jun 07 j 23:53	0°る19'24		min. Earth dist.	-9442 Sep 04 j 20:45 -9442 Nov 24 j 23:41		
retrograde	·			direct	•	4°る11'03	
	-9448 Jul 21 j 07:48	30°₹ <b>₹</b>	12925100	evening set max. Earth dist.	-9441 Feb 24 j 03:42	5° <b>る</b> 26'39	48.49865 AU
opposition min. Earth dist.	-9448 Aug 28 j 14:22 -9448 Aug 29 j 08:15	29°×19'57	47.21403 AU	max. Earm dist.	-9441 Mar 04 j 22:38	3 03843	46.49603 AU
	-9448 Nov 18 j 14:41	29 <b>x</b> ·1900 28° <b>x</b> ¹19'58	47.21403 AU	aomiumation	0441 Mar 06 : 04:50	5° <b>る</b> 40'28	11040!10
direct evening set	-9447 Feb 19 j 07:59	28 <b>x</b> ·1938 29° <b>x</b> <sup>7</sup> 37'08		conjunction minimum elong	-9441 Mar 06 j 04:50 -9441 Mar 06 j 05:00		11°48'52
evening set	-944/ Feb 19 J 07.39	29 <b>X</b> 3/06		morning rise	-9441 Mar 16 j 06:20	5°る54'18	11 46 32
conjunction	-9447 Feb 27 j 13:28	29° <b>∡</b> ¹48'21	12056140	retrograde	-9441 Jun 15 j 14:03	7°る10'25	
minimum elong	-9447 Feb 27 j 13:38	29° <b>х</b> 48'22		opposition	-9441 Sep 04 j 23:26		-12°12'12
max. Earth dist.	-9447 Feb 26 j 17:16		49.11671 AU	min. Earth dist.	-9441 Sep 04 j 23.20 -9441 Sep 06 j 02:06		46.48413 AU
morning rise	-9447 Mar 07 j 19:15	29° 🖈 47 12 29° 🖈 59'36	49.110/1 AU	direct	-9441 Nov 26 j 06:20	5°る09'58	40.46413 AU
morning risc	-9447 Mar 08 j 02:22	0°る		evening set	-9440 Feb 25 j 03:42	5 00938 6°る25'22	
retrograde	-9447 Mai 08 j 02.22 -9447 Jun 09 j 04:58	0 3 1° <b>3</b> 17'40		max. Earth dist.	-9440 Feb 23 j 03.42 -9440 Mar 05 j 04:42		48.38260 AU
opposition	-9447 Aug 29 j 18:57		-13°23'56	max. Earth dist.	-9440 Iviai 03 j 04.42	0 03/48	48.38200 AU
min. Earth dist.	-9447 Aug 29 j 18.37 -9447 Aug 30 j 14:18		47.12381 AU	conjunction	-9440 Mar 06 j 11:37	6° <b>る</b> 39'35	11035'50
iiiii. Eartii dist.	-9447 Sep 14 j 20:09	0 01/1/ 30°R.∡7	47.12381 AU	minimum elong	-9440 Mar 06 j 11:49	6° <b>る</b> 39'36	
direct	-9447 Sep 14 j 20:09 -9447 Nov 19 j 20:42	29° <b>₹</b> 18'09		morning rise	-9440 Mar 16 j 19:45	6°る53'49	11 30 34
direct	-9446 Jan 23 j 22:23	29 <b>メ</b> ・1809		retrograde	-9440 Mai 10 j 19:43	8°る09'42	
avaning sat	-9446 Feb 20 j 06:45	0° <b>ろ</b> 35'02		opposition	-9440 Sep 05 j 04:32		-11°59'18
evening set	-9440 Feb 20 J 00.43	0 033 02					
conjugation	0446 Eab 20 : 10.55	0° <b>る</b> 46'42	12046101	min. Earth dist.	-9440 Sep 06 j 09:02 -9440 Nov 26 j 13:27	7°る08'26 6°る09'04	46.36524 AU
conjunction	-9446 Feb 28 j 19:55		-12°46'01 12°46'34	direct	•	6°09'04 7° <b>3</b> 24'17	
minimum elong	-9446 Feb 28 j 20:07		12°46'34 49.02547 AU	evening set	-9439 Feb 25 j 04:07		18 26200 ATT
max. Earth dist.	-9446 Feb 27 j 21:09		49.0234 / AU	max. Earth dist.	-9439 Mar 06 j 10:43	1 03/03	48.26399 AU
morning rise	-9446 Mar 09 j 09:35	0°る58'24 2°る16'07		aaniumati	0/20 Mar 07: 10 27	70=20054	11000100
retrograde	-9446 Jun 10 j 09:23		-13°12'37	conjunction	-9439 Mar 07 j 18:27	7°る38'54	
opposition	-9446 Aug 30 j 23:37			minimum elong	-9439 Mar 07 j 18:39	7°る38'54 7°る53'31	11°23'57
min. Earth dist.	-9446 Aug 31 j 19:59		47.02853 AU	morning rise	-9439 Mar 18 j 08:57		
direct	-9446 Nov 21 j 02:57	0°る16'30		retrograde	-9439 Jun 16 j 23:54	9° <b>る</b> 09'10	11046107
evening set	-9445 Feb 21 j 05:28	1° <b>る</b> 33'06		opposition	-9439 Sep 06 j 09:29	8° <b>る</b> 09'15	-11 <sup>-</sup> 46 <sup>0</sup> 0/

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9439 in astronomical counting style is the year 9440 BCE in historical counting style. morning rise min. Earth dist. -9439 Sep 07 i 13:58 8°る07'52 46.24377 AU -9432 Mar 27 j 05:13 14°る59'21 -9439 Nov 27 j 18:58 7°る08'23 -9432 Jun 24 j 01:24 16°**ප**13'46 direct retrograde -9438 Feb 26 j 04:39 8°**중**23'27 opposition -9432 Sep 13 j 00:01 15°る13'20 -10°06'03 evening set -9438 Mar 07 j 15:33 max. Earth dist. 8°る36'30 48.14271 AU -9432 Sep 14 j 14:23 min. Earth dist. 15°る11'26 45.28699 AU -9432 Dec 04 j 09:44 direct 14°**ප**11'38 -9438 Mar 09 j 01:19 8°る38'27 -11°10'31 conjunction evening set -9431 Mar 03 j 16:36 15°る26'00 -9438 Mar 09 j 01:30 -9431 Mar 14 j 09:08 minimum elong 8°**る**38'28 11°11'06 max. Earth dist. 15°る40'59 47.18132 AU morning rise -9438 Mar 19 j 22:15 8°る53'29 retrograde -9438 Jun 18 j 09:43 10°る08'54 conjunction -9431 Mar 16 j 05:31 15°る43'36 -9°33'05 opposition -9438 Sep 07 j 14:42 9°**ප්**08'56 -11°32'38 minimum elong -9431 Mar 16 j 05:43 15°る43'37 9°33'40 min. Earth dist. -9438 Sep 08 j 20:54 9°る07'28 46.11962 AU morning rise -9431 Mar 28 j 18:22 16°**ප**01'12 -9431 Jun 25 j 09:08 direct -9438 Nov 28 j 20:51 8°**る**07'59 retrograde 17°**る**15'29 -9431 Sep 14 j 05:53 evening set -9437 Feb 27 j 05:19 9°**る**22'54 opposition 16°る14'55 -9°50'40 max. Earth dist. -9437 Mar 08 j 22:31 9°る36'21 48.01855 AU min. Earth dist. -9431 Sep 15 j 21:20 16°る12'58 45.13190 AU direct -9431 Dec 05 j 16:14 15°る13'04 conjunction -9437 Mar 10 j 08:18 9°る38'18 -10°57'22 evening set -9430 Mar 04 j 19:13 16°る27'23 minimum elong -9437 Mar 10 j 08:30 9°**る**38'19 10°57'56 max. Earth dist. -9430 Mar 15 j 16:16 16°る42'40 47.02572 AU morning rise -9437 Mar 21 j 11:16 9°**る**53'43 retrograde -9437 Jun 19 j 16:57 11°る08'57 conjunction -9430 Mar 17 j 13:28 16°る45'20 -9°18'07 opposition -9437 Sep 08 j 19:57 10°**ට**08'55 -11°18'53 minimum elong -9430 Mar 17 j 13:39 16°る45'20 9°18'41 min. Earth dist. -9437 Sep 10 j 03:08 10°る07'24 45.99214 AU morning rise -9430 Mar 30 j 07:19 17°る03'16 direct -9437 Nov 30 i 01:56 9°る07'53 retrograde -9430 Jun 26 i 14:32 18°る17'26 evening set -9436 Feb 28 i 06:35 10°る22'41 opposition -9430 Sep 15 i 12:01 17°る16'45 -9°35'00 max. Earth dist. -9436 Mar 09 j 03:20 10°る36'22 47.89081 AU min. Earth dist. -9430 Sep 17 i 05:19 17°る14'42 44.97307 AU direct -9430 Dec 07 j 00:25 16°る14'43 -9436 Mar 10 j 15:28 10°る38'28 -10°43'58 -9429 Mar 05 j 22:03 17°る29'00 conjunction evening set -9436 Mar 10 j 15:39 10°る38'29 10°44'33 -9429 Mar 16 j 23:03 17°る44'33 46.86681 AU max. Earth dist. minimum elong -9436 Mar 22 j 00:33 10°る54'16 morning rise -9436 Jun 19 j 23:40 12°**る**09'19 -9429 Mar 18 j 21:17 17°る47'17 -9°02'53 conjunction retrograde opposition -9436 Sep 09 j 01:11 11°る09'14 -11°04'51 -9429 Mar 18 j 21:29 17°る47'18 9°03'27 minimum elong -9436 Sep 10 j 09:29 -9429 Mar 31 j 20:10 min. Earth dist. 11°る07'40 45.86083 AU 18°**る**05'35 morning rise -9429 Jun 27 j 20:23 -9436 Nov 30 j 07:39 10°**る**08'06 19°**る**19'39 direct retrograde -9429 Sep 16 j 18:07 -9435 Feb 28 j 08:03 11°**る**22'49 18°る18'50 -9°19'02 evening set opposition -9435 Mar 10 j 09:36 11°る36'47 47.75868 AU -9429 Sep 18 j 11:30 18°る16'47 44.81112 AU max. Earth dist. min. Earth dist. -9429 Dec 08 j 07:57 direct 17°**る**16'39 11°る38'58 -10°30'18 -9435 Mar 11 j 22:58 -9428 Mar 06 j 01:15 conjunction evening set 18°**る**30'55 -9428 Mar 17 j 05:13 minimum elong -9435 Mar 11 j 23:10 11°る38'59 10°30'52 max. Earth dist. 18°る46'41 46.70483 AU morning rise -9435 Mar 23 j 13:50 11°**る**55'08 retrograde -9435 Jun 21 j 03:20 13°**る**10'01 conjunction -9428 Mar 19 j 05:23 18°る49'33 -8°47'22 -9435 Sep 10 j 06:51 12°る09'52 -10°50'33 minimum elong -9428 Mar 19 j 05:34 18°る49'33 8°47'54 opposition min. Earth dist. -9435 Sep 11 j 17:19 12°る08'11 45.72484 AU morning rise -9428 Apr 01 j 09:09 19°**る**08'10 -9435 Dec 01 j 16:39 11°**る**08'37 -9428 Jun 28 j 05:35 20°る22'11 direct retrograde -9434 Mar 01 j 09:45 12°る23'14 -9428 Sep 17 j 00:25 19°る21'15 -9°02'45 evening set opposition max. Earth dist. -9434 Mar 11 j 15:34 12°る37'29 47.62181 AU min. Earth dist. -9428 Sep 18 j 19:37 19°る19'06 44.64643 AU -9428 Dec 08 j 12:24 18°る18'54 direct 12°る39'45 -10°16'23 conjunction -9434 Mar 13 i 06:20 evening set -9427 Mar 07 i 04:43 19°る33'11 minimum elong -9434 Mar 13 i 06:31 12°る39'46 10°16'57 max. Earth dist. -9427 Mar 18 i 13:36 19°る49'17 46.54031 AU morning rise -9434 Mar 25 i 02:51 12°**る**56'17 retrograde -9434 Jun 22 i 09:27 14°る11'01 conjunction -9427 Mar 20 j 13:43 19°る52'09 -8°31'33 minimum elong -9434 Sep 11 i 12:27 13°る10'47 -10°35'59 -9427 Mar 20 i 13:54 19°**ප**52'10 8°32'07 opposition min. Earth dist. -9434 Sep 12 j 23:27 13°る09'04 45.58386 AU -9427 Apr 02 j 22:02 20°**ප**11'07 morning rise -9434 Dec 02 j 23:12 12°る09'24 -9427 Jun 29 j 14:33 21°る25'05 direct retrograde -9433 Mar 02 j 11:45 13°る23'55 -9427 Sep 18 j 06:57 20°**ප**24'02 -8°46'11 evening set opposition max. Earth dist. -9433 Mar 12 j 20:41 13°る38'24 47.47978 AU min. Earth dist. -9427 Sep 20 j 02:36 20°る21'52 44.47917 AU -9427 Dec 09 j 17:53 direct 19°る21'33 conjunction -9433 Mar 14 j 13:56 13°る40'48 -10°02'13 evening set -9426 Mar 08 j 08:23 20°る35'52 -9433 Mar 14 j 14:08 13°る40'49 10°02'47 max. Earth dist. -9426 Mar 19 j 19:42 20°る52'11 46.37329 AU minimum elong 13°**る**57'42 -9433 Mar 26 j 16:07 morning rise -9433 Jun 23 j 18:09 15°**る**12'17 -9426 Mar 21 j 21:51 20°る55'10 -8°15'27 retrograde conjunction 14°る11'57 -10°21'09 20°る55'11 8°16'00 opposition -9433 Sep 12 j 18:10 minimum elong -9426 Mar 21 j 22:02 21°る14'28 min. Earth dist. -9433 Sep 14 j 07:31 14°る10'07 45.43787 AU morning rise -9426 Apr 04 j 10:53 -9433 Dec 04 j 02:51 13°**る**10'25 retrograde -9426 Jun 30 j 24:00 22°**る**28'25 direct evening set -9432 Mar 02 j 14:01 14°**る**24'51 opposition -9426 Sep 19 j 13:32 21°**ට**27'16 -8°29'18 max. Earth dist. -9432 Mar 13 j 03:51 14°る39'38 47.33286 AU min. Earth dist. -9426 Sep 21 j 10:04 21°る25'03 44.30945 AU direct -9426 Dec 10 j 23:21 20°る24'38 -9432 Mar 14 j 21:47 14°る42'06 -9°47'47 -9425 Mar 09 j 12:20 21°る39'02 conjunction evening set -9432 Mar 14 j 21:58 14°る42'06 9°48'21 max. Earth dist. -9425 Mar 21 j 03:43 21°る55'38 46.20348 AU minimum elong

Attention, astronomical year style is used: The year -9425 in astronomical counting style is the year 9426 BCE in historical counting style.							
conjunction	-9425 Mar 23 j 06:28	21° <b>ප</b> 58'41		min. Earth dist.	-9419 Sep 28 j 22:21		43.01179 AU
minimum elong	-9425 Mar 23 j 06:39	21° <b>ප</b> 58'41	7°59'38	direct	-9419 Dec 18 j 08:10	27° <b>る</b> 59'52	
morning rise	-9425 Apr 05 j 23:47	22° <b>ප</b> 18'18		evening set	-9418 Mar 16 j 02:28	29° <b>る</b> 15'07	
retrograde	-9425 Jul 02 j 05:20	23° <b>る</b> 32'15		max. Earth dist.	-9418 Mar 28 j 10:17	29° <b>る</b> 33'09	44.90040 AU
opposition	-9425 Sep 20 j 20:17	22° <b>ට</b> 31'01	-8°12'07		· ·		
min. Earth dist.	-9425 Sep 22 j 18:33	22° <b>පි</b> 28'42	44.13668 AU	conjunction	-9418 Mar 30 j 23:48	29° <b>る</b> 36'57	-5°56'22
direct	-9425 Dec 12 j 09:18	21° <b>ට</b> 28'14		minimum elong	-9418 Mar 30 j 23:57	29° <b>る</b> 36'58	5°56'54
evening set	-9424 Mar 09 j 16:51	22° <b>る</b> 42'43		morning rise	-9418 Apr 14 j 19:48	29° <b>る</b> 58'45	
max. Earth dist.	-9424 Mar 21 j 11:12	22° <b>る</b> 59'34	46.03048 AU		-9418 Apr 15 j 16:43	0° <b>≈</b>	
				retrograde	-9418 Jul 09 j 18:00	1°≈13′05	
conjunction	-9424 Mar 23 j 15:14	23° <b>පි</b> 02'42	-7°42'23	opposition	-9418 Sep 28 j 01:02	0° <b>≈</b> 10'46	-6°03'23
minimum elong	-9424 Mar 23 j 15:25	23° <b>る</b> 02'43	7°42'56	min. Earth dist.	-9418 Sep 30 j 08:29	0° <b>≈</b> 07'56	42.81011 AU
morning rise	-9424 Apr 06 j 12:53	23° <b>る</b> 22'39			-9418 Oct 06 j 20:41	30°Ŗ₹	
retrograde	-9424 Jul 02 j 12:17	24° <b>පි</b> 36'37		direct	-9418 Dec 19 j 17:01	29° <b>る</b> 06'34	
opposition	-9424 Sep 21 j 03:10	23° <b>ප</b> 35'17	-7°54'38		-9417 Mar 01 j 14:48	0° <b>≈</b>	
min. Earth dist.	-9424 Sep 23 j 01:50	23° <b>る</b> 32'57	43.96035 AU	evening set	-9417 Mar 17 j 09:10	0° <b>≈</b> 21'58	
direct	-9424 Dec 12 j 17:49	22° <b>ප</b> 32'21		max. Earth dist.	-9417 Mar 29 j 20:15	0° <b>≈</b> 40'17	44.69846 AU
evening set	-9423 Mar 10 j 21:38	23° <b>ප්</b> 46'57					
max. Earth dist.	-9423 Mar 22 j 18:03	24° <b>පි</b> 03'58	45.85336 AU	conjunction	-9417 Apr 01 j 09:51	0° <b>≈</b> 44'07	-5°37'41
				minimum elong	-9417 Apr 01 j 09:59	0° <b>≈</b> 44'07	5°38'12
conjunction	-9423 Mar 25 j 00:12	24° <b>ප</b> 07'15	-7°25'25	morning rise	-9417 Apr 16 j 08:57	1° <b>≈</b> 06'11	
minimum elong	-9423 Mar 25 j 00:22	24° <b>පි</b> 07'15	7°25'58	retrograde	-9417 Jul 11 j 03:42	2° <b>≈</b> 20'38	
morning rise	-9423 Apr 08 j 01:58	24° <b>පි</b> 27'31		opposition	-9417 Sep 29 j 09:10	1° <b>≈</b> 18′07	-5°43'45
retrograde	-9423 Jul 03 j 21:50	25° <b>ප්</b> 41'33		min. Earth dist.	-9417 Oct 01 j 16:50	1°≈15'15	42.60570 AU
opposition	-9423 Sep 22 j 10:25	24° <b>පි</b> 40'05	-7°36'50	direct	-9417 Dec 21 j 00:31	0° <b>≈</b> 13'39	
min. Earth dist.	-9423 Sep 24 j 11:27	24° <b>ට</b> 37'37	43.77977 AU	evening set	-9416 Mar 17 j 16:23	1° <b>≈</b> 29'16	
direct	-9423 Dec 13 j 23:01	23° <b>පි</b> 36'59		max. Earth dist.	-9416 Mar 30 j 04:19	1° <b>≈</b> 47'44	44.49402 AU
evening set	-9422 Mar 12 j 02:45	24° <b>ප</b> 51'41					
max. Earth dist.	-9422 Mar 24 j 02:43		45.67183 AU	conjunction	-9416 Apr 01 j 20:02	1° <b>≈</b> 51'41	-5°18'42
	,			minimum elong	-9416 Apr 01 j 20:11	1° <b>≈</b> 51'42	
conjunction	-9422 Mar 26 j 09:27	25° <b>ට</b> 12'18	-7°08'10	morning rise	-9416 Apr 16 j 22:18	2° <b>≈</b> 14'03	
minimum elong	-9422 Mar 26 j 09:38	25° <b>ප</b> 12'19		retrograde	-9416 Jul 11 j 15:29	3° <b>≈</b> 28'38	
morning rise	-9422 Apr 09 j 15:03	25° <b>ට</b> 32'54		opposition	-9416 Sep 29 j 17:40	2° <b>≈</b> 25'55	-5°23'48
retrograde	-9422 Jul 05 j 07:07	26° <b>පි</b> 46'58		min. Earth dist.	-9416 Oct 02 j 02:31		42.39919 AU
opposition	-9422 Sep 23 j 17:47	25° <b>ප්</b> 45'23	-7°18'45	direct	-9416 Dec 21 j 06:44	1° <b>≈</b> 21'13	
min. Earth dist.	-9422 Sep 25 j 19:31		43.59452 AU	evening set	-9415 Mar 18 j 23:46	2° <b>≈</b> 37'03	
direct	-9422 Dec 15 j 06:24	24° <b>පි</b> 42'06		max. Earth dist.	-9415 Mar 31 j 14:43		44.28748 AU
evening set	-9421 Mar 13 j 08:11	25°₹56'55			, ,		
max. Earth dist.	-9421 Mar 25 j 09:15		45.48558 AU	conjunction	-9415 Apr 03 j 06:30	2° <b>≈</b> 59'46	-4°59'25
	, j .,	-, -, -,		minimum elong	-9415 Apr 03 j 06:38	2°≈59'46	4°59'55
conjunction	-9421 Mar 27 j 18:40	26° <b>ප</b> 17'51	-6°50'39	morning rise	-9415 Apr 18 j 11:24	3° <b>≈</b> 22'24	
minimum elong	-9421 Mar 27 j 18:50	26° <b>ට</b> 17'51		retrograde	-9415 Jul 13 j 01:12	4° <b>≈</b> 37'09	
morning rise	-9421 Apr 11 j 04:16	26° <b>පි</b> 38'44	0 0111	opposition	-9415 Oct 01 j 02:28	3° <b>≈</b> 34'14	-5°03'31
retrograde	-9421 Jul 06 j 18:49	27° <b>ප්</b> 52'52		min. Earth dist.	-9415 Oct 03 j 12:15		42.19071 AU
opposition	-9421 Sep 25 j 01:19	26°පි51'07	-7°00'22	direct	-9415 Dec 22 j 16:59	2° <b>≈</b> 29'18	.2.19071110
min. Earth dist.	-9421 Sep 27 j 04:35		43.40463 AU	evening set	-9414 Mar 20 j 07:43	3°≈45'24	
direct	-9421 Dec 16 j 12:27	25° <b>ප්</b> 47'37	15.10105710	max. Earth dist.	-9414 Apr 02 j 00:05		44.07925 AU
evening set	-9420 Mar 13 j 13:59	27° <b>る</b> 02'35		max. Earth dist.	71111pi 02 j 00.03	1,4,011)	11.07,723.110
max. Earth dist.	-9420 Mar 25 j 18:09		45.29457 AU	conjunction	-9414 Apr 04 j 17:05	4° <b>≈</b> 08'24	-4°39'49
max. Darm dist.	7 120 Mai 23 j 10.07	27 02010	15.27 157 110	minimum elong	-9414 Apr 04 j 17:12	4°≈08'24	
conjunction	-9420 Mar 28 j 04:22	27° <b>る</b> 23'49	-6°32'50	morning rise	-9414 Apr 04 j 17.12 -9414 Apr 20 j 00:46	4°≈31'18	7 7021
minimum elong	-9420 Mar 28 j 04:32	27° පි23'50		retrograde	-9414 Jul 14 j 11:20	5°≈46'15	
morning rise	-9420 Mar 28 j 04:32	27° <b>る</b> 45'01	0 33 22	opposition	-9414 Oct 02 j 11:20	4°≈43'09	1°12'55
-	-9420 Apr 11 j 17.27 -9420 Jul 07 j 03:26	27 <b>3</b> 4301 28° <b>る</b> 59'12		min. Earth dist.	-9414 Oct 04 j 21:12		41.98058 AU
retrograde	-9420 Sep 25 j 09:02	28 <b>3</b> 3912 27° <b>る</b> 57'16	6041141	direct	•	4 ≈40 09 3°≈37'59	41.98038 AU
opposition min. Earth dist.					-9414 Dec 24 j 03:21	3 ≈3739 4°≈54'24	
	-9420 Sep 27 j 14:10	27 <b>3</b> 3433 26° <b>る</b> 53'33	43.21014 AU	evening set	-9413 Mar 21 j 15:54		42 96000 ATT
direct	-9420 Dec 16 j 22:03 -9419 Mar 14 j 20:12	28° <b>ろ</b> 08'39		max. Earth dist.	-9413 Apr 03 j 09:47	J <b>~</b> 13 29	43.86900 AU
evening set	•		45 00020 ATT	agniumation	0412 Amm 06:02:57	500017140	1910156
max. Earth dist.	-9419 Mar 27 j 02:16	20 02031	45.09938 AU	conjunction	-9413 Apr 06 j 03:57	5°≈17'40	
aominm-ti	0410 M 20 : 14 07	200=20112	601.414.5	minimum elong	-9413 Apr 06 j 04:04	5°≈17'40	4°20'25
conjunction	-9419 Mar 29 j 14:05	28° <b>る</b> 30'12		morning rise	-9413 Apr 21 j 14:05	5°≈40'51	
minimum elong	-9419 Mar 29 j 14:14	28°る30'12	0~13.1/	retrograde	-9413 Jul 15 j 20:58	6°≈56'01	4001150
morning rise	-9419 Apr 13 j 06:46	28° <b>る</b> 51'42		opposition	-9413 Oct 03 j 20:37	5°≈52'45	
. 1	-9419 Jun 15 j 22:04	0° <b>≈</b>		min. Earth dist.	-9413 Oct 06 j 08:27		41.76829 AU
retrograde	-9419 Jul 08 j 10:15	0°≈05'56		direct	-9413 Dec 25 j 12:54	4° <b>≈</b> 47'22	
*.*	-9419 Jul 31 j 00:43	30°Rる	6020111	evening set	-9412 Mar 22 j 00:44	6°≈04'06	10 (5:00 : *=
opposition	-9419 Sep 26 j 16:53	29° <b>る</b> 03'49	-6~22'41	max. Earth dist.	-9412 Apr 03 j 20:43	6~≈23′25	43.65638 AU

Planetary Phenomena of Pluto from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, Attention, astronomical year style is used: The year -9412 in astronomical counting style is the year 9413 BCE in historical counting style. -9412 Apr 06 i 15:13 6°≈27'38 -3°59'43 min. Earth dist. -9406 Oct 14 i 17:00 14°≈17'10 40.18946 AU conjunction minimum elong -9412 Apr 06 j 15:19 6°≈27'39 4°00'14 -9405 Jan 02 j 11:36 direct 13°≈13'31 -9412 Apr 22 j 03:37 -9405 Mar 31 j 03:59 6°≈51'05 14°≈33'10 morning rise evening set -9412 Jul 16 j 07:03 -9405 Apr 13 j 02:47 8°≈06'31 max. Earth dist. 14°≈53'27 42.07047 AU retrograde -9412 Oct 04 j 06:01 opposition 7°≈03'05 -4°00'43 -9412 Oct 06 j 18:03 6°**≈**59'57 41.55330 AU -9405 Apr 16 j 05:44 min. Earth dist. conjunction 14°≈58'24 -1°29'57 -9405 Apr 16 j 05:47 direct -9412 Dec 25 j 22:39 5°≈57'29 minimum elong 14°≈58'25 1°30'24 -9405 Apr 17 j 05:49 evening set -9411 Mar 23 j 10:09 7°≈14'33 15°≈ max. Earth dist. -9411 Apr 05 j 05:53 7°≈33'58 43.44066 AU morning rise -9405 May 02 j 04:35 15°≈23'31 -9405 Jul 25 j 21:34 retrograde 16°≈41'23 conjunction -9411 Apr 08 j 02:42 7°≈38'22 -3°39'13 opposition -9405 Oct 13 j 09:01 15°≈36'19 -1°22'51 -9411 Apr 08 j 02:48 -9405 Oct 16 j 05:02 minimum elong 7°≈38'22 3°39'42 min. Earth dist. 15°≈32'39 39.95201 AU -9411 Apr 23 j 17:18 morning rise 8°≈02'04 -9405 Nov 12 j 02:19 15°R≈ retrograde -9411 Jul 17 j 20:59 9°**≈**17'48 direct -9404 Jan 03 j 23:15 14°≈28'44 opposition -9411 Oct 05 j 15:53 8°≈14'10 -3°39'08 -9404 Feb 25 j 02:54 15°≈ min. Earth dist. -9411 Oct 08 j 05:37 8°≈10'57 41.33511 AU evening set -9404 Mar 31 j 16:54 15°≈48'54 direct -9411 Dec 27 j 05:24 7°≈08'20 max. Earth dist. -9404 Apr 13 j 14:34 16°≈09'15 41.83260 AU evening set -9410 Mar 24 j 19:43 8°≈25'48 max. Earth dist. -9410 Apr 06 j 17:25 8°≈45'26 43.22132 AU conjunction -9404 Apr 16 j 19:11 16°≈14'21 -1°07'22 minimum elong -9404 Apr 16 j 19:13 16°≈14'21 conjunction -9410 Apr 09 j 14:27 8°≈49'52 -3°18'25 morning rise -9404 May 02 j 18:48 16°≈39'39 minimum elong -9410 Apr 09 j 14:33 8°≈49'52 3°18'55 retrograde -9404 Jul 26 i 13:43 17°≈57'58 -9410 Apr 25 i 06:48 9°≈13'49 opposition -9404 Oct 13 i 20:53 16°≈52'38 -0°59'01 morning rise retrograde -9410 Jul 19 i 09:19 10°≈29'52 min. Earth dist. -9404 Oct 16 i 17:23 16°≈48'56 39.71324 AU -9410 Oct 07 i 02:07 9°≈26'01 -3°17'14 -9403 Jan 04 j 10:08 15°≈44'44 opposition direct -9410 Oct 09 j 17:05 -9403 Apr 02 j 06:13 17°≈05'29 min. Earth dist. 9°≈22'43 41.11307 AU evening set -9410 Dec 28 j 15:25 8°≈19'56 -9403 Apr 15 j 04:17 max. Earth dist. 17°≈25'59 41.59341 AU direct evening set -9409 Mar 26 j 06:05 9°≈37'48 9°≈57'32 42.99814 AU -9403 Apr 18 j 09:07 max. Earth dist. -9409 Apr 08 j 03:25 conjunction 17°≈31'07 -0°44'30 -9403 Apr 18 j 09:08 minimum elong 17°**≈**31'07 0°44'56 -9409 Apr 11 j 02:30 -9403 May 04 j 08:56 17°≈56'36 conjunction 10°≈02'07 -2°57'19 morning rise -9403 Jul 28 j 03:47 -9409 Apr 11 j 02:35 10°≈02'07 19°≈15'25 minimum elong 2°57'48 retrograde -9409 Apr 26 j 20:44 -9403 Oct 15 j 09:23 10°≈26'19 18°≈09'49 -0°34'51 morning rise opposition -9409 Jul 20 j 22:01 -9403 Oct 18 j 07:08 retrograde 11°≈42'40 min. Earth dist. 18°≈06'02 39.47343 AU -9409 Oct 08 j 12:20 -9402 Jan 05 j 22:57 opposition 10°≈38'37 -2°55'00 direct 17°≈01'37 -9409 Oct 11 j 04:04 min. Earth dist. 10°≈35'16 40.88725 AU evening set -9402 Apr 03 j 20:02 18°≈22'57 -9402 Apr 16 j 17:52 direct -9409 Dec 30 j 01:50 9°**≈**32'15 max. Earth dist. 18°≈43'35 41.35341 AU -9408 Mar 26 j 16:53 10°≈50'32 evening set max. Earth dist. -9408 Apr 08 j 14:31 11°≈10'24 42.77095 AU conjunction -9402 Apr 19 j 23:05 18°≈48'47 -0°21'21 minimum elong -9402 Apr 19 j 23:06 18°≈48'47 0°21'47 -9408 Apr 11 j 15:01 11°≈15'06 -2°35'55 morning rise -9402 May 05 j 23:11 19°≈14'27 conjunction -9408 Apr 11 j 15:06 11°≈15'07 2°36'25 -9402 Jul 29 j 15:54 20°≈33'48 minimum elong retrograde -9408 Apr 27 j 10:38 11°≈39'32 -9402 Oct 16 j 22:02 19°≈27'56 -0°10'23 morning rise opposition -9408 Jul 21 j 07:55 -9402 Oct 19 j 19:24 19°≈24'09 39.23286 AU retrograde 12°≈56'14 min. Earth dist. 18°≈19′26 -9408 Oct 08 j 23:11 -9401 Jan 07 j 13:23 opposition 11°≈51'57 -2°32'27 direct min. Earth dist. -9408 Oct 11 i 16:56 11°≈48'28 40.65764 AU asc. node -9401 Mar 19 i 14:43 19°≈15'56 direct -9408 Dec 30 i 14:53 10°≈45'18 evening set -9401 Apr 05 i 10:39 19°≈41'25 evening set -9407 Mar 28 i 04:08 12°≈04'01 max. Earth dist. -9401 Apr 18 i 06:59 20°≈02'06 41.11236 AU max. Earth dist. -9407 Apr 10 j 02:34 12°≈24'02 42.54029 AU -9401 Apr 21 j 13:41 20°≈07'26 0°02'10 conjunction -9407 Apr 13 i 03:38 12°≈28'49 -2°14'14 -9401 Apr 21 j 13:41 20°≈07'26 0°01'45 conjunction minimum elong -9407 Apr 13 i 03:42 12°≈28'49 2°14'42 -9401 Apr 21 j 07:10 20°≈07'02 minimum elong behind sun begin -9407 Apr 29 j 00:35 -9401 Apr 21 j 20:12 morning rise 12°253'29 behind sun end 20°≈07'51 -9407 Jul 22 j 18:34 retrograde 14°≈10'32 morning rise -9401 May 07 j 13:38 20°≈33'17 -9401 Jul 31 j 05:26 opposition -9407 Oct 10 j 10:07 13°≈06'00 -2°09'34 retrograde 21°≈53'12 min. Earth dist. -9407 Oct 13 j 03:58 13°≈02'30 40.42481 AU opposition -9401 Oct 18 j 11:04 20°≈47'05 0°14'24 -9406 Jan 01 j 02:54 11°≈59'03 min. Earth dist. -9401 Oct 21 j 10:07 20°≈43'11 38.99126 AU direct -9406 Mar 29 j 15:54 -9400 Jan 09 j 01:38 19°≈38'16 evening set 13°≈18'13 direct -9406 Apr 11 j 13:25 -9400 Apr 06 j 01:58 21°≈00'56 max. Earth dist. 13°≈38'19 42.30654 AU evening set -9400 Apr 18 j 22:25 max. Earth dist. 21°≈21'46 40.87002 AU -9406 Apr 14 j 16:31 conjunction 13°≈43'15 -1°52'14 minimum elong -9406 Apr 14 j 16:34 13°**≈**43'15 1°52'43 conjunction -9400 Apr 22 j 04:48 21°**≈**27'08 0°25'51 morning rise -9406 Apr 30 j 14:36 14°≈08'08 minimum elong -9400 Apr 22 j 04:47 21°**≈**27'08 0°25'27 -9406 Jun 08 j 09:08 15°≈ morning rise -9400 May 08 j 04:18 21°≈53'08 retrograde -9406 Jul 24 j 08:12 15°≈25'35 retrograde -9400 Jul 31 j 19:57 23°≈13'40 -9406 Sep 09 j 00:24 -9400 Oct 19 j 00:38 22°**≈**07'18 15°R≈ opposition 0°39'30

-9400 Oct 21 j 23:52

min. Earth dist.

22°≈03'23 38.74809 AU

-9406 Oct 11 j 21:23

14°≈20'47 -1°46'23

opposition

Attention, astronomical year style is used: The year -9399 in astronomical counting style is the year 9400 BCE in historical counting style.

direct	-9399 Jan	09 j 13:53	20° <b>≈</b> 58'11
evening set	-9399 Apr	07 j 18:01	22° <b>≈</b> 21'35

max. Earth dist. -9399 Apr 20 j 11:47 22°≈42'23 40.62571 AU

conjunction -9399 Apr 23 j 20:06 22°≈47'55 0°49'51 minimum elong -9399 Apr 23 j 20:04 22°≈47'55 0°49'27

morning rise -9399 May 09 j 19:03 23°≈14'05 retrograde -9399 Aug 02 j 13:34 24°≈35'16

opposition -9399 Oct 20 j 14:38 23°≈28'37 1°04'54 min. Earth dist. -9399 Oct 23 j 15:04 23°≈24'37 38.50290 AU