

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 1

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| superior conj       | -3400 Jan 15 j 08:15 | 29°♁15'07 | -1°13'18   | min. Earth dist.    | -3398 Jun 03 j 02:38 | 12°♂32'09 | 0.28588 AU |
| minimum elong       | -3400 Jan 14 j 22:59 | 28°♁46'21 | 1°13'12    | morning rise        | -3398 Jun 08 j 16:48 | 9°♂13'21  |            |
|                     | -3400 Jan 15 j 22:44 | 0°♂       |            | direct              | -3398 Jun 24 j 05:36 | 4°♂36'42  |            |
| max. Earth dist.    | -3400 Jan 19 j 08:41 | 4°♂14'07  | 1.72455 AU | greatest brilliancy | -3398 Jul 05 j 09:03 | 6°♂50'03  | -4.8m      |
|                     | -3400 Feb 09 j 04:23 | 0°♂       |            |                     | -3398 Aug 06 j 21:42 | 0°♂       |            |
| evening rise        | -3400 Feb 23 j 09:14 | 17°♂30'28 |            | morning max el      | -3398 Aug 13 j 00:28 | 5°♂53'34  | 46°25'49   |
| greatest brilliancy | -3400 Feb 29 j 01:52 | 24°♂30'37 | -3.9m      |                     | -3398 Sep 04 j 18:49 | 0°♂       |            |
|                     | -3400 Mar 04 j 13:07 | 0°♂       |            | asc. node           | -3398 Sep 14 j 20:35 | 11°♂25'23 |            |
|                     | -3400 Mar 29 j 01:30 | 0°♂       |            |                     | -3398 Sep 30 j 16:37 | 0°♂       |            |
| asc. node           | -3400 Mar 30 j 00:51 | 1°♂11'12  |            |                     | -3398 Oct 25 j 10:54 | 0°♂       |            |
|                     | -3400 Apr 22 j 18:18 | 0°♂       |            |                     | -3398 Nov 18 j 18:17 | 0°♂       |            |
|                     | -3400 May 17 j 16:36 | 0°♂       |            |                     | -3398 Dec 12 j 23:04 | 0°♂       |            |
|                     | -3400 Jun 11 j 22:48 | 0°♂       |            | desc. node          | -3397 Jan 04 j 15:39 | 28°♂05'06 |            |
|                     | -3400 Jul 07 j 18:27 | 0°♂       |            |                     | -3397 Jan 06 j 04:51 | 0°♂       |            |
| desc. node          | -3400 Jul 19 j 18:58 | 13°♂35'55 |            |                     | -3397 Jan 30 j 12:31 | 0°♂       |            |
|                     | -3400 Aug 03 j 17:39 | 0°♂       |            | morning set         | -3397 Feb 17 j 19:54 | 22°♂31'46 |            |
| evening max el      | -3400 Aug 19 j 21:30 | 16°♂44'55 | 47°13'14   |                     | -3397 Feb 23 j 21:42 | 0°♂       |            |
|                     | -3400 Sep 03 j 00:10 | 0°♂       |            |                     | -3397 Mar 20 j 07:49 | 0°♂       |            |
| greatest brilliancy | -3400 Sep 29 j 22:38 | 17°♂41'10 | -4.9m      |                     |                      |           |            |
| retrograde          | -3400 Oct 09 j 09:19 | 19°♂22'43 |            | superior conj       | -3397 Mar 27 j 05:48 | 8°♂29'30  | -1°04'23   |
| evening set         | -3400 Oct 24 j 06:32 | 14°♂59'44 |            | minimum elong       | -3397 Mar 27 j 14:31 | 8°♂56'14  | 1°04'09    |
| inferior conj       | -3400 Oct 29 j 22:39 | 11°♂38'16 | -2°44'32   | max. Earth dist.    | -3397 Mar 27 j 05:48 | 8°♂29'30  | 1.73657 AU |
| minimum elong       | -3400 Oct 30 j 04:37 | 11°♂29'06 | 2°42'42    |                     | -3397 Apr 13 j 18:24 | 0°♂       |            |
| min. Earth dist.    | -3400 Oct 29 j 18:20 | 11°♂44'53 | 0.26367 AU | asc. node           | -3397 Apr 27 j 13:04 | 16°♂54'40 |            |
| morning rise        | -3400 Nov 05 j 02:55 | 8°♂01'21  |            | evening rise        | -3397 May 02 j 12:14 | 23°♂00'17 |            |
| asc. node           | -3400 Nov 09 j 17:23 | 5°♂53'52  |            |                     | -3397 May 08 j 05:03 | 0°♂       |            |
| direct              | -3400 Nov 19 j 03:58 | 4°♂03'42  |            |                     | -3397 Jun 01 j 15:38 | 0°♂       |            |
| greatest brilliancy | -3400 Nov 29 j 03:07 | 5°♂57'00  | -4.9m      |                     | -3397 Jun 26 j 02:41 | 0°♂       |            |
|                     | -3399 Jan 01 j 13:11 | 0°♂       |            |                     | -3397 Jul 20 j 15:40 | 0°♂       |            |
| morning max el      | -3399 Jan 08 j 05:27 | 6°♂29'22  | 46°31'37   |                     | -3397 Aug 14 j 09:01 | 0°♂       |            |
|                     | -3399 Jan 30 j 15:15 | 0°♂       |            | desc. node          | -3397 Aug 17 j 07:05 | 3°♂31'18  |            |
|                     | -3399 Feb 26 j 09:27 | 0°♂       |            |                     | -3397 Sep 08 j 10:38 | 0°♂       |            |
| desc. node          | -3399 Mar 01 j 13:17 | 3°♂37'17  |            |                     | -3397 Oct 04 j 04:48 | 0°♂       |            |
|                     | -3399 Mar 24 j 06:36 | 0°♂       |            |                     | -3397 Oct 31 j 16:37 | 0°♂       |            |
|                     | -3399 Apr 18 j 15:52 | 0°♂       |            | evening max el      | -3397 Oct 31 j 21:39 | 0°♂12'54  | 47°23'56   |
|                     | -3399 May 13 j 16:17 | 0°♂       |            |                     | -3397 Dec 06 j 18:51 | 0°♂       |            |
|                     | -3399 Jun 07 j 08:43 | 0°♂       |            | asc. node           | -3397 Dec 08 j 04:57 | 0°♂42'51  |            |
| asc. node           | -3399 Jun 22 j 11:07 | 18°♂32'42 |            | greatest brilliancy | -3397 Dec 11 j 06:19 | 2°♂03'33  | -4.9m      |
|                     | -3399 Jul 01 j 17:38 | 0°♂       |            | retrograde          | -3397 Dec 22 j 01:04 | 4°♂17'45  |            |
| morning set         | -3399 Jul 05 j 16:34 | 4°♂54'11  |            |                     | -3396 Jan 05 j 12:44 | 30°♂♁     |            |
|                     | -3399 Jul 25 j 20:03 | 0°♂       |            | evening set         | -3396 Jan 07 j 07:58 | 28°♂57'56 |            |
| max. Earth dist.    | -3399 Aug 08 j 11:20 | 17°♂05'09 | 1.71570 AU | min. Earth dist.    | -3396 Jan 11 j 00:57 | 26°♂40'28 | 0.28019 AU |
|                     |                      |           |            | inferior conj       | -3396 Jan 12 j 01:45 | 26°♂01'06 | 7°10'26    |
| superior conj       | -3399 Aug 11 j 21:48 | 21°♂24'02 | 1°23'08    | minimum elong       | -3396 Jan 11 j 17:16 | 26°♂14'35 | 7°08'58    |
| minimum elong       | -3399 Aug 11 j 18:58 | 21°♂15'09 | 1°23'14    | morning rise        | -3396 Jan 16 j 03:06 | 23°♂29'50 |            |
|                     | -3399 Aug 18 j 18:03 | 0°♂       |            | direct              | -3396 Feb 01 j 22:22 | 17°♂58'09 |            |
|                     | -3399 Sep 11 j 14:16 | 0°♂       |            | greatest brilliancy | -3396 Feb 10 j 17:12 | 19°♂24'43 | -4.8m      |
| evening rise        | -3399 Sep 20 j 03:32 | 10°♂45'33 |            |                     | -3396 Feb 29 j 19:53 | 0°♂       |            |
|                     | -3399 Oct 05 j 11:04 | 0°♂       |            | morning max el      | -3396 Mar 21 j 21:25 | 18°♂10'28 | 45°55'36   |
| desc. node          | -3399 Oct 12 j 05:30 | 8°♂29'25  |            | desc. node          | -3396 Mar 29 j 00:48 | 25°♂09'43 |            |
|                     | -3399 Oct 29 j 10:02 | 0°♂       |            |                     | -3396 Apr 02 j 19:31 | 0°♂       |            |
|                     | -3399 Nov 22 j 12:18 | 0°♂       |            |                     | -3396 Apr 30 j 17:39 | 0°♂       |            |
|                     | -3399 Dec 16 j 19:48 | 0°♂       |            |                     | -3396 May 27 j 00:49 | 0°♂       |            |
|                     | -3398 Jan 10 j 12:40 | 0°♂       |            |                     | -3396 Jun 21 j 10:21 | 0°♂       |            |
| asc. node           | -3398 Feb 02 j 02:33 | 26°♂42'10 |            |                     | -3396 Jul 16 j 04:32 | 0°♂       |            |
|                     | -3398 Feb 04 j 22:48 | 0°♂       |            | asc. node           | -3396 Jul 19 j 23:10 | 4°♂37'52  |            |
|                     | -3398 Mar 03 j 18:31 | 0°♂       |            |                     | -3396 Aug 09 j 11:08 | 0°♂       |            |
| evening max el      | -3398 Mar 24 j 23:39 | 21°♂37'22 | 45°09'10   |                     | -3396 Sep 02 j 09:51 | 0°♂       |            |
|                     | -3398 Apr 03 j 03:14 | 0°♂       |            | greatest brilliancy | -3396 Sep 08 j 13:40 | 7°♂45'27  | -3.9m      |
| greatest brilliancy | -3398 May 01 j 15:21 | 18°♂50'30 | -4.7m      | morning set         | -3396 Sep 15 j 08:39 | 16°♂19'18 |            |
| retrograde          | -3398 May 12 j 05:41 | 20°♂50'54 |            |                     | -3396 Sep 26 j 04:41 | 0°♂       |            |
| desc. node          | -3398 May 24 j 21:42 | 17°♂45'13 |            |                     | -3396 Oct 19 j 23:02 | 0°♂       |            |
| evening set         | -3398 May 27 j 03:01 | 16°♂38'18 |            |                     |                      |           |            |
| inferior conj       | -3398 Jun 02 j 14:42 | 12°♂50'32 | -2°01'08   | superior conj       | -3396 Oct 26 j 01:31 | 7°♂41'31  | 0°31'20    |
| minimum elong       | -3398 Jun 02 j 10:17 | 12°♂57'18 | 1°59'48    | minimum elong       | -3396 Oct 26 j 09:30 | 8°♂06'40  | 0°30'57    |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 2

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| max. Earth dist.    | -3396 Oct 29 j 13:53 | 12°♊07'11 | 1.70978 AU | direct              | -3393 Apr 13 j 11:59 | 25°♊49'50 |            |
| desc. node          | -3396 Nov 08 j 17:37 | 24°♊53'45 |            | greatest brilliancy | -3393 Apr 23 j 14:46 | 27°♊40'10 | -4.7m      |
|                     | -3396 Nov 12 j 19:09 | 0°♊       |            | desc. node          | -3393 Apr 26 j 12:09 | 28°♊47'49 |            |
|                     | -3396 Dec 06 j 18:05 | 0°♊       |            |                     | -3393 Apr 29 j 02:25 | 0°♊       |            |
| evening rise        | -3396 Dec 07 j 13:37 | 1°♊00'59  |            | morning max el      | -3393 Jun 01 j 08:48 | 25°♊39'17 | 45°51'40   |
|                     | -3396 Dec 30 j 20:26 | 0°♊       |            |                     | -3393 Jun 05 j 20:09 | 0°♊       |            |
|                     | -3395 Jan 24 j 03:17 | 0°♊       |            |                     | -3393 Jul 04 j 05:26 | 0°♊       |            |
|                     | -3395 Feb 17 j 16:48 | 0°♊       |            |                     | -3393 Jul 30 j 08:21 | 0°♊       |            |
| asc. node           | -3395 Mar 01 j 14:45 | 14°♊23'03 |            | asc. node           | -3393 Aug 17 j 11:01 | 21°♊39'27 |            |
|                     | -3395 Mar 14 j 16:18 | 0°♊       |            |                     | -3393 Aug 24 j 07:40 | 0°♊       |            |
|                     | -3395 Apr 09 j 06:50 | 0°♊       |            |                     | -3393 Sep 17 j 14:50 | 0°♊       |            |
|                     | -3395 May 05 j 22:17 | 0°♊       |            |                     | -3393 Oct 11 j 13:36 | 0°♊       |            |
|                     | -3395 Jun 03 j 20:10 | 0°♊       |            |                     | -3393 Nov 04 j 09:48 | 0°♊       |            |
| evening max el      | -3395 Jun 04 j 17:24 | 0°♊51'00  | 45°44'59   |                     | -3393 Nov 28 j 07:06 | 0°♊       |            |
| desc. node          | -3395 Jun 21 j 09:23 | 15°♊36'40 |            | morning set         | -3393 Dec 02 j 03:59 | 4°♊50'59  |            |
| greatest brilliancy | -3395 Jul 14 j 10:10 | 29°♊22'52 | -4.8m      | desc. node          | -3393 Dec 07 j 05:43 | 11°♊11'54 |            |
|                     | -3395 Jul 16 j 12:32 | 0°♊       |            |                     | -3393 Dec 22 j 07:02 | 0°♊       |            |
| retrograde          | -3395 Jul 23 j 20:49 | 0°♊59'19  |            |                     |                      |           |            |
|                     | -3395 Jul 30 j 22:58 | 30°♊      |            | superior conj       | -3392 Jan 12 j 20:29 | 26°♊49'41 | -1°11'27   |
| evening set         | -3395 Aug 10 j 15:18 | 25°♊07'52 |            | minimum elong       | -3392 Jan 12 j 10:42 | 26°♊19'20 | 1°11'19    |
| inferior conj       | -3395 Aug 13 j 18:09 | 23°♊15'41 | -8°51'20   |                     | -3392 Jan 15 j 09:49 | 0°♊       |            |
| minimum elong       | -3395 Aug 13 j 15:44 | 23°♊19'21 | 8°51'07    | max. Earth dist.    | -3392 Jan 16 j 22:31 | 1°♊53'52  | 1.72395 AU |
| min. Earth dist.    | -3395 Aug 14 j 03:49 | 23°♊01'01 | 0.27356 AU |                     | -3392 Feb 08 j 15:25 | 0°♊       |            |
| morning rise        | -3395 Aug 16 j 16:03 | 21°♊30'37 |            | evening rise        | -3392 Feb 21 j 00:26 | 15°♊15'34 |            |
| direct              | -3395 Sep 03 j 16:22 | 15°♊26'20 |            | greatest brilliancy | -3392 Feb 26 j 14:49 | 22°♊09'01 | -3.9m      |
| greatest brilliancy | -3395 Sep 14 j 12:28 | 17°♊38'36 | -4.9m      |                     | -3392 Mar 04 j 00:09 | 0°♊       |            |
|                     | -3395 Oct 04 j 04:08 | 0°♊       |            |                     | -3392 Mar 28 j 12:41 | 0°♊       |            |
| asc. node           | -3395 Oct 12 j 08:00 | 7°♊06'07  |            | asc. node           | -3392 Mar 29 j 02:55 | 0°♊43'21  |            |
| morning max el      | -3395 Oct 24 j 11:54 | 18°♊58'38 | 46°52'41   |                     | -3392 Apr 22 j 05:50 | 0°♊       |            |
|                     | -3395 Nov 03 j 22:18 | 0°♊       |            |                     | -3392 May 17 j 04:46 | 0°♊       |            |
|                     | -3395 Nov 30 j 10:09 | 0°♊       |            |                     | -3392 Jun 11 j 12:01 | 0°♊       |            |
|                     | -3395 Dec 25 j 18:30 | 0°♊       |            |                     | -3392 Jul 07 j 09:33 | 0°♊       |            |
|                     | -3394 Jan 19 j 17:53 | 0°♊       |            | desc. node          | -3392 Jul 18 j 21:11 | 12°♊56'09 |            |
| desc. node          | -3394 Feb 01 j 03:39 | 14°♊58'04 |            |                     | -3392 Aug 03 j 12:46 | 0°♊       |            |
|                     | -3394 Feb 13 j 14:09 | 0°♊       |            | evening max el      | -3392 Aug 17 j 09:47 | 14°♊17'27 | 47°10'57   |
|                     | -3394 Mar 10 j 08:35 | 0°♊       |            |                     | -3392 Sep 03 j 09:40 | 0°♊       |            |
|                     | -3394 Apr 04 j 01:01 | 0°♊       |            | greatest brilliancy | -3392 Sep 27 j 12:48 | 15°♊13'08 | -4.9m      |
| morning set         | -3394 Apr 27 j 05:50 | 28°♊19'02 |            | retrograde          | -3392 Oct 06 j 21:16 | 16°♊53'10 |            |
|                     | -3394 Apr 28 j 14:51 | 0°♊       |            | evening set         | -3392 Oct 21 j 21:07 | 12°♊27'16 |            |
|                     | -3394 May 23 j 01:29 | 0°♊       |            | inferior conj       | -3392 Oct 27 j 11:02 | 9°♊09'30  | -3°07'39   |
| asc. node           | -3394 May 25 j 01:10 | 2°♊26'48  |            | minimum elong       | -3392 Oct 27 j 17:46 | 8°♊59'11  | 3°05'37    |
| max. Earth dist.    | -3394 May 29 j 12:22 | 7°♊57'01  | 1.73272 AU | min. Earth dist.    | -3392 Oct 27 j 08:25 | 9°♊13'31  | 0.26360 AU |
|                     |                      |           |            | morning rise        | -3392 Nov 02 j 14:29 | 5°♊33'48  |            |
| superior conj       | -3394 Jun 02 j 03:01 | 12°♊24'12 | 0°18'52    | asc. node           | -3392 Nov 08 j 19:22 | 2°♊51'37  |            |
| minimum elong       | -3394 Jun 01 j 23:22 | 12°♊12'55 | 0°18'46    | direct              | -3392 Nov 16 j 15:50 | 1°♊34'47  |            |
|                     | -3394 Jun 16 j 08:36 | 0°♊       |            | greatest brilliancy | -3392 Nov 26 j 17:33 | 3°♊30'26  | -4.9m      |
| evening rise        | -3394 Jul 07 j 21:32 | 26°♊43'53 |            |                     | -3391 Jan 01 j 14:56 | 0°♊       |            |
|                     | -3394 Jul 10 j 12:36 | 0°♊       |            | morning max el      | -3391 Jan 05 j 18:53 | 4°♊05'27  | 46°32'56   |
|                     | -3394 Aug 03 j 14:49 | 0°♊       |            |                     | -3391 Jan 30 j 08:25 | 0°♊       |            |
|                     | -3394 Aug 27 j 17:11 | 0°♊       |            |                     | -3391 Feb 25 j 23:38 | 0°♊       |            |
| desc. node          | -3394 Sep 13 j 19:20 | 21°♊12'47 |            | desc. node          | -3391 Feb 28 j 15:23 | 3°♊03'09  |            |
|                     | -3394 Sep 20 j 21:40 | 0°♊       |            |                     | -3391 Mar 23 j 19:17 | 0°♊       |            |
|                     | -3394 Oct 15 j 06:14 | 0°♊       |            |                     | -3391 Apr 18 j 03:42 | 0°♊       |            |
|                     | -3394 Nov 08 j 22:14 | 0°♊       |            |                     | -3391 May 13 j 03:36 | 0°♊       |            |
|                     | -3394 Dec 04 j 05:32 | 0°♊       |            |                     | -3391 Jun 06 j 19:44 | 0°♊       |            |
|                     | -3394 Dec 31 j 01:03 | 0°♊       |            | asc. node           | -3391 Jun 21 j 13:18 | 18°♊05'49 |            |
| asc. node           | -3393 Jan 04 j 16:47 | 4°♊53'26  |            |                     | -3391 Jul 01 j 04:31 | 0°♊       |            |
| evening max el      | -3393 Jan 10 j 21:24 | 11°♊11'22 | 46°04'27   | morning set         | -3391 Jul 03 j 09:39 | 2°♊44'35  |            |
|                     | -3393 Jan 31 j 22:10 | 0°♊       |            |                     | -3391 Jul 25 j 06:56 | 0°♊       |            |
| greatest brilliancy | -3393 Feb 18 j 13:20 | 10°♊27'41 | -4.8m      | max. Earth dist.    | -3391 Aug 06 j 01:27 | 14°♊44'31 | 1.71627 AU |
| retrograde          | -3393 Mar 01 j 07:46 | 12°♊35'11 |            |                     |                      |           |            |
| evening set         | -3393 Mar 18 j 09:19 | 6°♊59'27  |            | superior conj       | -3391 Aug 09 j 12:58 | 19°♊06'36 | 1°22'33    |
| inferior conj       | -3393 Mar 22 j 18:39 | 4°♊15'08  | 6°46'43    | minimum elong       | -3391 Aug 09 j 09:24 | 18°♊55'22 | 1°22'38    |
| minimum elong       | -3393 Mar 23 j 03:09 | 4°♊01'36  | 6°45'17    |                     | -3391 Aug 18 j 05:01 | 0°♊       |            |
| min. Earth dist.    | -3393 Mar 23 j 02:54 | 4°♊02'00  | 0.29296 AU |                     | -3391 Sep 11 j 01:21 | 0°♊       |            |
| morning rise        | -3393 Mar 27 j 21:02 | 1°♊05'29  |            | evening rise        | -3391 Sep 17 j 14:37 | 8°♊14'33  |            |
|                     | -3393 Mar 29 j 19:32 | 30°♊      |            |                     | -3391 Oct 04 j 22:17 | 0°♊       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |  |                      |                      |                      |
|---------------------|----------------------|----------------------|--|----------------------|----------------------|----------------------|
| desc. node          | -3391 Oct 11 j 07:31 | 8°♌00'30             |  | -3388 Apr 30 j 08:04 | 0°♐                  |                      |
|                     | -3391 Oct 28 j 21:22 | 0°♌                  |  | -3388 May 26 j 13:29 | 0°♑                  |                      |
|                     | -3391 Nov 21 j 23:49 | 0°♐                  |  | -3388 Jun 20 j 22:08 | 0°♒                  |                      |
|                     | -3391 Dec 16 j 07:38 | 0°♑                  |  | -3388 Jul 15 j 15:51 | 0°♓                  |                      |
|                     | -3390 Jan 10 j 01:08 | 0°♒                  |  | asc. node            | -3388 Jul 19 j 01:21 | 4°♓09'59             |
| asc. node           | -3390 Feb 01 j 04:41 | 26°♒09'06            |  | -3388 Aug 08 j 22:13 | 0°♈                  |                      |
|                     | -3390 Feb 04 j 12:33 | 0°♐                  |  | -3388 Sep 01 j 20:52 | 0°♐                  |                      |
|                     | -3390 Mar 03 j 11:20 | 0°♑                  |  | greatest brilliancy  | -3388 Sep 07 j 14:52 | 7°♐14'38 -3.9m       |
| evening max el      | -3390 Mar 22 j 15:42 | 19°♑28'00 45°09'39   |  | morning set          | -3388 Sep 12 j 21:05 | 13°♐52'30            |
|                     | -3390 Apr 03 j 07:24 | 0°♒                  |  | -3388 Sep 25 j 15:40 | 0°♑                  |                      |
| greatest brilliancy | -3390 Apr 29 j 05:40 | 16°♒39'30 -4.7m      |  | -3388 Oct 19 j 10:03 | 0°♌                  |                      |
| retrograde          | -3390 May 09 j 21:49 | 18°♒41'14            |  |                      |                      |                      |
| desc. node          | -3390 May 23 j 23:47 | 14°♒52'55            |  | superior conj        | -3388 Oct 23 j 10:38 | 5°♌04'21 0°35'01     |
| evening set         | -3390 May 24 j 18:35 | 14°♒28'21            |  | minimum elong        | -3388 Oct 23 j 19:21 | 5°♌31'48 0°34'37     |
| inferior conj       | -3390 May 31 j 06:25 | 10°♒39'58 -1°41'20   |  | max. Earth dist.     | -3388 Oct 26 j 20:19 | 9°♌21'34 1.70956 AU  |
| minimum elong       | -3390 May 31 j 02:42 | 10°♒45'40 1°40'11    |  | desc. node           | -3388 Nov 07 j 19:44 | 24°♌25'41            |
| min. Earth dist.    | -3390 May 31 j 18:21 | 10°♒21'35 0.28626 AU |  | -3388 Nov 12 j 06:12 | 0°♌                  |                      |
| morning rise        | -3390 Jun 06 j 10:11 | 7°♒00'41             |  | evening rise         | -3388 Dec 04 j 23:12 | 28°♌26'26            |
| direct              | -3390 Jun 21 j 22:10 | 2°♒25'28             |  | -3388 Dec 06 j 05:10 | 0°♐                  |                      |
| greatest brilliancy | -3390 Jul 03 j 00:51 | 4°♒38'36 -4.8m       |  | -3388 Dec 30 j 07:33 | 0°♑                  |                      |
|                     | -3390 Aug 06 j 21:55 | 0°♓                  |  | -3387 Jan 23 j 14:30 | 0°♒                  |                      |
| morning max el      | -3390 Aug 10 j 16:46 | 3°♓40'50 46°24'22    |  | -3387 Feb 17 j 04:17 | 0°♐                  |                      |
|                     | -3390 Sep 04 j 11:13 | 0°♈                  |  | asc. node            | -3387 Feb 28 j 16:50 | 13°♐54'05            |
| asc. node           | -3390 Sep 13 j 22:39 | 10°♈47'31            |  | -3387 Mar 14 j 04:24 | 0°♑                  |                      |
|                     | -3390 Sep 30 j 06:31 | 0°♐                  |  | -3387 Apr 08 j 20:11 | 0°♒                  |                      |
|                     | -3390 Oct 24 j 23:39 | 0°♑                  |  | -3387 May 05 j 14:19 | 0°♓                  |                      |
|                     | -3390 Nov 18 j 06:23 | 0°♌                  |  | evening max el       | -3387 Jun 02 j 07:09 | 28°♓33'01 45°42'15   |
|                     | -3389 Dec 12 j 10:42 | 0°♌                  |  | -3387 Jun 03 j 19:43 | 0°♈                  |                      |
| desc. node          | -3389 Jan 03 j 17:53 | 27°♌37'07            |  | desc. node           | -3387 Jun 20 j 11:37 | 14°♈29'42            |
|                     | -3389 Jan 05 j 16:08 | 0°♐                  |  | greatest brilliancy  | -3387 Jul 11 j 22:17 | 27°♈00'54 -4.8m      |
|                     | -3389 Jan 29 j 23:32 | 0°♑                  |  | retrograde           | -3387 Jul 21 j 08:50 | 28°♈37'20            |
| morning set         | -3389 Feb 15 j 11:00 | 20°♑17'10            |  | evening set          | -3387 Aug 08 j 01:45 | 22°♈49'50            |
|                     | -3389 Feb 23 j 08:31 | 0°♒                  |  | inferior conj        | -3387 Aug 11 j 07:20 | 20°♈53'34 -8°47'42   |
|                     | -3389 Mar 19 j 18:32 | 0°♐                  |  | minimum elong        | -3387 Aug 11 j 04:00 | 20°♈58'37 8°47'26    |
|                     |                      |                      |  | min. Earth dist.     | -3387 Aug 11 j 16:59 | 20°♈38'54 0.27403 AU |
| superior conj       | -3389 Mar 24 j 23:39 | 6°♐24'07 -1°06'20    |  | morning rise         | -3387 Aug 14 j 06:07 | 19°♈06'59            |
| minimum elong       | -3389 Mar 25 j 08:16 | 6°♐50'35 1°06'09     |  | direct               | -3387 Sep 01 j 06:01 | 13°♈03'27            |
| max. Earth dist.    | -3389 Mar 25 j 04:18 | 6°♐38'24 1.73643 AU  |  | greatest brilliancy  | -3387 Sep 12 j 02:50 | 15°♈15'42 -4.9m      |
|                     | -3389 Apr 13 j 05:05 | 0°♑                  |  | -3387 Oct 04 j 14:59 | 0°♐                  |                      |
| asc. node           | -3389 Apr 26 j 15:08 | 16°♑28'06            |  | asc. node            | -3387 Oct 11 j 10:05 | 6°♐05'28             |
| evening rise        | -3389 Apr 30 j 07:31 | 20°♑59'16            |  | morning max el       | -3387 Oct 22 j 00:06 | 16°♐29'27 46°52'24   |
|                     | -3389 May 07 j 15:49 | 0°♒                  |  | -3387 Nov 03 j 17:19 | 0°♑                  |                      |
|                     | -3389 Jun 01 j 02:38 | 0°♓                  |  | -3387 Nov 30 j 01:16 | 0°♌                  |                      |
|                     | -3389 Jun 25 j 14:04 | 0°♈                  |  | -3387 Dec 25 j 07:54 | 0°♌                  |                      |
|                     | -3389 Jul 20 j 03:37 | 0°♐                  |  | -3386 Jan 19 j 06:18 | 0°♐                  |                      |
|                     | -3389 Aug 13 j 21:46 | 0°♑                  |  | desc. node           | -3386 Jan 31 j 05:42 | 14°♐27'55            |
| desc. node          | -3389 Aug 16 j 09:11 | 2°♑58'51             |  | -3386 Feb 13 j 01:53 | 0°♑                  |                      |
|                     | -3389 Sep 08 j 00:38 | 0°♌                  |  | -3386 Mar 09 j 19:51 | 0°♒                  |                      |
|                     | -3389 Oct 03 j 21:07 | 0°♌                  |  | -3386 Apr 03 j 11:56 | 0°♐                  |                      |
| evening max el      | -3389 Oct 29 j 14:23 | 27°♌56'43 47°25'36   |  | morning set          | -3386 Apr 25 j 00:51 | 26°♐17'34            |
|                     | -3389 Oct 31 j 14:54 | 0°♐                  |  | -3386 Apr 28 j 01:34 | 0°♑                  |                      |
| asc. node           | -3389 Dec 07 j 07:14 | 29°♐04'21            |  | -3386 May 22 j 12:09 | 0°♒                  |                      |
| greatest brilliancy | -3389 Dec 08 j 22:03 | 29°♐44'59 -4.9m      |  | asc. node            | -3386 May 24 j 03:25 | 2°♒00'52             |
|                     | -3389 Dec 09 j 13:41 | 0°♑                  |  | max. Earth dist.     | -3386 May 27 j 08:03 | 5°♒56'52 1.73316 AU  |
| retrograde          | -3389 Dec 19 j 17:23 | 1°♑59'19             |  |                      |                      |                      |
|                     | -3389 Dec 29 j 10:17 | 30°♒♐                |  | superior conj        | -3386 May 30 j 22:02 | 10°♒21'55 0°15'52    |
| evening set         | -3388 Jan 04 j 20:20 | 26°♐44'34            |  | minimum elong        | -3386 May 30 j 18:57 | 10°♒12'22 0°15'49    |
| min. Earth dist.    | -3388 Jan 08 j 15:15 | 24°♐24'16 0.27939 AU |  | behind sun begin     | -3386 May 30 j 18:11 | 10°♒10'02            |
| inferior conj       | -3388 Jan 09 j 16:58 | 23°♐43'29 6°59'27    |  | behind sun end       | -3386 May 30 j 19:42 | 10°♒14'43            |
| minimum elong       | -3388 Jan 09 j 08:10 | 23°♐57'27 6°57'51    |  | -3386 Jun 15 j 19:20 | 0°♓                  |                      |
| morning rise        | -3388 Jan 13 j 20:38 | 21°♐09'02            |  | evening rise         | -3386 Jul 05 j 15:37 | 24°♓37'10            |
| direct              | -3388 Jan 30 j 13:19 | 15°♐42'02            |  | -3386 Jul 09 j 23:30 | 0°♈                  |                      |
| greatest brilliancy | -3388 Feb 08 j 06:43 | 17°♐07'52 -4.8m      |  | -3386 Aug 03 j 01:57 | 0°♐                  |                      |
|                     | -3388 Mar 01 j 09:11 | 0°♑                  |  | -3386 Aug 27 j 04:38 | 0°♑                  |                      |
| morning max el      | -3388 Mar 19 j 12:59 | 15°♑58'58 45°56'23   |  | desc. node           | -3386 Sep 12 j 21:20 | 20°♑42'42            |
| desc. node          | -3388 Mar 28 j 02:52 | 24°♑25'00            |  | -3386 Sep 20 j 09:30 | 0°♌                  |                      |
|                     | -3388 Apr 02 j 14:05 | 0°♒                  |  | -3386 Oct 14 j 18:36 | 0°♌                  |                      |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |  |                     |                      |           |            |  |
|---------------------|----------------------|-----------|------------|--|---------------------|----------------------|-----------|------------|--|
|                     | -3386 Nov 08 j 11:25 | 0°♊       |            |  |                     | -3383 Mar 23 j 07:58 | 0°♊       |            |  |
|                     | -3386 Dec 03 j 20:15 | 0°♋       |            |  |                     | -3383 Apr 17 j 15:35 | 0°♋       |            |  |
|                     | -3386 Dec 30 j 19:38 | 0°♌       |            |  |                     | -3383 May 12 j 14:59 | 0°♌       |            |  |
| asc. node           | -3385 Jan 03 j 18:57 | 4°♌08'07  |            |  |                     | -3383 Jun 06 j 06:50 | 0°♍       |            |  |
| evening max el      | -3385 Jan 08 j 11:35 | 8°♌53'39  | 46°07'22   |  | asc. node           | -3383 Jun 20 j 15:30 | 17°♍38'41 |            |  |
|                     | -3385 Feb 01 j 12:33 | 0°♎       |            |  |                     | -3383 Jun 30 j 15:28 | 0°♎       |            |  |
| greatest brilliancy | -3385 Feb 16 j 06:48 | 8°♎20'12  | -4.8m      |  | morning set         | -3383 Jul 01 j 03:06 | 0°♎36'00  |            |  |
| retrograde          | -3385 Feb 27 j 00:24 | 10°♎27'45 |            |  |                     | -3383 Jul 24 j 17:52 | 0°♏       |            |  |
| evening set         | -3385 Mar 16 j 04:38 | 4°♎48'08  |            |  | max. Earth dist.    | -3383 Aug 03 j 15:51 | 12°♏24'48 | 1.71682 AU |  |
| inferior conj       | -3385 Mar 20 j 11:40 | 2°♎07'20  | 6°57'17    |  |                     |                      |           |            |  |
| minimum elong       | -3385 Mar 20 j 19:54 | 1°♎54'12  | 6°55'59    |  | superior conj       | -3383 Aug 07 j 04:29 | 16°♏50'10 | 1°21'49    |  |
| min. Earth dist.    | -3385 Mar 20 j 19:24 | 1°♎54'59  | 0.29290 AU |  | minimum elong       | -3383 Aug 07 j 00:13 | 16°♏36'47 | 1°21'54    |  |
|                     | -3385 Mar 23 j 20:28 | 30°♏      |            |  |                     | -3383 Aug 17 j 16:02 | 0°♐       |            |  |
| morning rise        | -3385 Mar 25 j 11:11 | 29°♏01'40 |            |  |                     | -3383 Sep 10 j 12:32 | 0°♑       |            |  |
| direct              | -3385 Apr 11 j 04:02 | 23°♏42'02 |            |  | evening rise        | -3383 Sep 15 j 01:57 | 5°♑44'00  |            |  |
| greatest brilliancy | -3385 Apr 21 j 06:44 | 25°♏32'00 | -4.7m      |  |                     | -3383 Oct 04 j 09:39 | 0°♒       |            |  |
| desc. node          | -3385 Apr 25 j 14:16 | 27°♏17'37 |            |  | desc. node          | -3383 Oct 10 j 09:39 | 7°♒31'26  |            |  |
|                     | -3385 Apr 30 j 17:26 | 0°♓       |            |  |                     | -3383 Oct 28 j 08:55 | 0°♓       |            |  |
| morning max el      | -3385 May 30 j 00:17 | 23°♓28'36 | 45°51'12   |  |                     | -3383 Nov 21 j 11:34 | 0°♊       |            |  |
|                     | -3385 Jun 05 j 16:23 | 0°♊       |            |  |                     | -3383 Dec 15 j 19:45 | 0°♋       |            |  |
|                     | -3385 Jul 03 j 20:26 | 0°♌       |            |  |                     | -3382 Jan 09 j 13:53 | 0°♌       |            |  |
|                     | -3385 Jul 29 j 21:26 | 0°♍       |            |  | asc. node           | -3382 Jan 31 j 06:46 | 25°♌35'02 |            |  |
| asc. node           | -3385 Aug 16 j 13:05 | 21°♍08'17 |            |  |                     | -3382 Feb 04 j 02:39 | 0°♎       |            |  |
|                     | -3385 Aug 23 j 19:51 | 0°♏       |            |  |                     | -3382 Mar 03 j 04:45 | 0°♏       |            |  |
|                     | -3385 Sep 17 j 02:34 | 0°♐       |            |  | evening max el      | -3382 Mar 20 j 08:06 | 17°♏18'48 | 45°10'12   |  |
|                     | -3385 Oct 11 j 01:05 | 0°♑       |            |  |                     | -3382 Apr 03 j 13:53 | 0°♍       |            |  |
|                     | -3385 Nov 03 j 21:07 | 0°♒       |            |  | greatest brilliancy | -3382 Apr 26 j 20:32 | 14°♍28'31 | -4.7m      |  |
|                     | -3385 Nov 27 j 18:18 | 0°♓       |            |  | retrograde          | -3382 May 07 j 13:46 | 16°♍30'43 |            |  |
| morning set         | -3385 Nov 29 j 13:32 | 2°♓15'29  |            |  | evening set         | -3382 May 22 j 10:21 | 12°♍17'40 |            |  |
| desc. node          | -3385 Dec 06 j 07:56 | 10°♓43'59 |            |  | desc. node          | -3382 May 23 j 02:03 | 11°♍56'24 |            |  |
|                     | -3385 Dec 21 j 18:07 | 0°♊       |            |  | inferior conj       | -3382 May 28 j 22:05 | 8°♍28'45  | -1°21'25   |  |
|                     |                      |           |            |  | minimum elong       | -3382 May 28 j 19:06 | 8°♍33'22  | 1°20'29    |  |
| superior conj       | -3384 Jan 10 j 08:25 | 24°♊23'38 | -1°09'26   |  | min. Earth dist.    | -3382 May 29 j 10:01 | 8°♍10'22  | 0.28661 AU |  |
| minimum elong       | -3384 Jan 09 j 22:12 | 23°♊51'53 | 1°09'17    |  | morning rise        | -3382 Jun 04 j 03:19 | 4°♍47'22  |            |  |
| max. Earth dist.    | -3384 Jan 14 j 10:52 | 29°♊29'11 | 1.72337 AU |  | direct              | -3382 Jun 19 j 14:50 | 0°♍13'45  |            |  |
|                     | -3384 Jan 14 j 20:48 | 0°♋       |            |  | greatest brilliancy | -3382 Jun 30 j 16:04 | 2°♍25'50  | -4.8m      |  |
|                     | -3384 Feb 08 j 02:21 | 0°♌       |            |  |                     | -3382 Aug 06 j 21:16 | 0°♍       |            |  |
| evening rise        | -3384 Feb 18 j 15:33 | 13°♌00'32 |            |  | morning max el      | -3382 Aug 08 j 08:37 | 1°♍26'36  | 46°23'02   |  |
| greatest brilliancy | -3384 Feb 23 j 22:58 | 19°♌32'42 | -3.9m      |  |                     | -3382 Sep 04 j 03:30 | 0°♎       |            |  |
|                     | -3384 Mar 03 j 11:08 | 0°♎       |            |  | asc. node           | -3382 Sep 13 j 00:49 | 10°♎09'49 |            |  |
|                     | -3384 Mar 27 j 23:51 | 0°♏       |            |  |                     | -3382 Sep 29 j 20:27 | 0°♐       |            |  |
| asc. node           | -3384 Mar 28 j 05:02 | 0°♏15'46  |            |  |                     | -3382 Oct 24 j 12:31 | 0°♑       |            |  |
|                     | -3384 Apr 21 j 17:21 | 0°♍       |            |  |                     | -3382 Nov 17 j 18:39 | 0°♒       |            |  |
|                     | -3384 May 16 j 16:55 | 0°♎       |            |  |                     | -3382 Dec 11 j 22:33 | 0°♓       |            |  |
|                     | -3384 Jun 11 j 01:15 | 0°♏       |            |  | desc. node          | -3381 Jan 02 j 19:55 | 27°♓07'34 |            |  |
|                     | -3384 Jul 07 j 00:48 | 0°♐       |            |  |                     | -3381 Jan 05 j 03:41 | 0°♊       |            |  |
| desc. node          | -3384 Jul 17 j 23:13 | 12°♐15'37 |            |  |                     | -3381 Jan 29 j 10:50 | 0°♋       |            |  |
|                     | -3384 Aug 03 j 08:25 | 0°♑       |            |  | morning set         | -3381 Feb 13 j 01:36 | 18°♋00'02 |            |  |
| evening max el      | -3384 Aug 14 j 22:13 | 11°♑50'29 | 47°08'26   |  |                     | -3381 Feb 22 j 19:39 | 0°♌       |            |  |
|                     | -3384 Sep 03 j 22:33 | 0°♒       |            |  |                     | -3381 Mar 19 j 05:32 | 0°♍       |            |  |
| greatest brilliancy | -3384 Sep 25 j 02:02 | 12°♒43'18 | -4.9m      |  |                     |                      |           |            |  |
| retrograde          | -3384 Oct 04 j 09:24 | 14°♒22'35 |            |  | superior conj       | -3381 Mar 22 j 17:06 | 4°♎16'35  | -1°08'14   |  |
| evening set         | -3384 Oct 19 j 11:34 | 9°♒53'15  |            |  | minimum elong       | -3381 Mar 23 j 01:35 | 4°♎42'38  | 1°08'04    |  |
| inferior conj       | -3384 Oct 24 j 23:06 | 6°♒39'21  | -3°30'35   |  | max. Earth dist.    | -3381 Mar 23 j 03:40 | 4°♎49'03  | 1.73623 AU |  |
| minimum elong       | -3384 Oct 25 j 06:34 | 6°♒27'57  | 3°28'22    |  |                     | -3381 Apr 12 j 16:03 | 0°♏       |            |  |
| min. Earth dist.    | -3384 Oct 24 j 21:53 | 6°♒41'12  | 0.26360 AU |  | asc. node           | -3381 Apr 25 j 17:20 | 16°♏01'02 |            |  |
| morning rise        | -3384 Oct 31 j 01:33 | 3°♒05'28  |            |  | evening rise        | -3381 Apr 28 j 02:34 | 18°♏56'36 |            |  |
| asc. node           | -3384 Nov 07 j 21:40 | 29°♒53'35 |            |  |                     | -3381 May 07 j 02:53 | 0°♍       |            |  |
|                     | -3384 Nov 07 j 12:09 | 30°♒      |            |  |                     | -3381 May 31 j 13:57 | 0°♎       |            |  |
| direct              | -3384 Nov 14 j 03:56 | 29°♒04'27 |            |  |                     | -3381 Jun 25 j 01:48 | 0°♏       |            |  |
|                     | -3384 Nov 21 j 00:52 | 0°♒       |            |  |                     | -3381 Jul 19 j 15:54 | 0°♐       |            |  |
| greatest brilliancy | -3384 Nov 24 j 07:23 | 1°♒02'10  | -4.9m      |  |                     | -3381 Aug 13 j 10:50 | 0°♑       |            |  |
|                     | -3383 Jan 01 j 15:36 | 0°♓       |            |  | desc. node          | -3381 Aug 15 j 11:15 | 2°♑25'30  |            |  |
| morning max el      | -3383 Jan 03 j 08:55 | 1°♓42'28  | 46°34'19   |  |                     | -3381 Sep 07 j 14:59 | 0°♒       |            |  |
|                     | -3383 Jan 30 j 01:20 | 0°♊       |            |  |                     | -3381 Oct 03 j 13:56 | 0°♓       |            |  |
|                     | -3383 Feb 25 j 13:44 | 0°♋       |            |  | evening max el      | -3381 Oct 27 j 06:40 | 25°♓38'31 | 47°26'57   |  |
| desc. node          | -3383 Feb 27 j 17:28 | 2°♋29'02  |            |  |                     | -3381 Oct 31 j 14:24 | 0°♌       |            |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 5

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| asc. node           | -3381 Dec 06 j 09:20 | 27°♂20'44 |            | max. Earth dist.    | -3378 May 25 j 05:00 | 3°♂59'46  | 1.73358 AU |
| greatest brilliancy | -3381 Dec 06 j 14:02 | 27°♂25'23 | -4.9m      |                     |                      |           |            |
| retrograde          | -3381 Dec 17 j 09:06 | 29°♂39'03 |            | superior conj       | -3378 May 28 j 16:54 | 8°♂18'14  | 0°12'52    |
| evening set         | -3380 Jan 02 j 08:33 | 24°♂29'36 |            | minimum elong       | -3378 May 28 j 14:22 | 8°♂10'28  | 0°12'48    |
| min. Earth dist.    | -3380 Jan 06 j 05:43 | 22°♂05'56 | 0.27862 AU | behind sun begin    | -3378 May 28 j 01:14 | 7°♂30'00  |            |
| inferior conj       | -3380 Jan 07 j 08:00 | 21°♂24'13 | 6°47'41    | behind sun end      | -3378 May 29 j 03:30 | 8°♂50'57  |            |
| minimum elong       | -3380 Jan 06 j 22:58 | 21°♂38'34 | 6°45'56    |                     | -3378 Jun 15 j 06:22 | 0°♂       |            |
| morning rise        | -3380 Jan 11 j 14:04 | 18°♂46'15 |            | evening rise        | -3378 Jul 03 j 09:42 | 22°♂29'41 |            |
| direct              | -3380 Jan 28 j 04:03 | 13°♂24'18 |            |                     | -3378 Jul 09 j 10:41 | 0°♂       |            |
| greatest brilliancy | -3380 Feb 05 j 20:31 | 14°♂49'30 | -4.8m      |                     | -3378 Aug 02 j 13:24 | 0°♂       |            |
|                     | -3380 Mar 01 j 19:44 | 0°♂       |            |                     | -3378 Aug 26 j 16:25 | 0°♂       |            |
| morning max el      | -3380 Mar 17 j 03:33 | 13°♂43'32 | 45°57'10   | desc. node          | -3378 Sep 11 j 23:30 | 20°♂12'02 |            |
| desc. node          | -3380 Mar 27 j 05:01 | 23°♂39'56 |            |                     | -3378 Sep 19 j 21:42 | 0°♂       |            |
|                     | -3380 Apr 02 j 08:39 | 0°♂       |            |                     | -3378 Oct 14 j 07:20 | 0°♂       |            |
|                     | -3380 Apr 29 j 22:42 | 0°♂       |            |                     | -3378 Nov 08 j 00:57 | 0°♂       |            |
|                     | -3380 May 26 j 02:25 | 0°♂       |            |                     | -3378 Dec 03 j 11:21 | 0°♂       |            |
|                     | -3380 Jun 20 j 10:13 | 0°♂       |            |                     | -3378 Dec 30 j 14:52 | 0°♂       |            |
|                     | -3380 Jul 15 j 03:29 | 0°♂       |            | asc. node           | -3377 Jan 02 j 20:59 | 3°♂21'28  |            |
| asc. node           | -3380 Jul 18 j 03:19 | 3°♂40'24  |            | evening max el      | -3377 Jan 06 j 01:57 | 6°♂35'57  | 46°10'25   |
|                     | -3380 Aug 08 j 09:38 | 0°♂       |            |                     | -3377 Feb 02 j 08:09 | 0°♂       |            |
|                     | -3380 Sep 01 j 08:11 | 0°♂       |            | greatest brilliancy | -3377 Feb 13 j 23:40 | 6°♂11'46  | -4.8m      |
| greatest brilliancy | -3380 Sep 06 j 14:41 | 6°♂38'24  | -3.9m      | retrograde          | -3377 Feb 24 j 17:37 | 8°♂20'16  |            |
| morning set         | -3380 Sep 10 j 09:45 | 11°♂25'30 |            | evening set         | -3377 Mar 13 j 23:59 | 2°♂36'37  |            |
|                     | -3380 Sep 25 j 02:57 | 0°♂       |            | inferior conj       | -3377 Mar 18 j 04:49 | 29°♂59'13 | 7°07'16    |
|                     | -3380 Oct 18 j 21:19 | 0°♂       |            | minimum elong       | -3377 Mar 18 j 12:45 | 29°♂46'35 | 7°06'05    |
|                     |                      |           |            |                     | -3377 Mar 18 j 04:20 | 30°♂      |            |
| superior conj       | -3380 Oct 20 j 20:16 | 2°♂27'58  | 0°38'35    | min. Earth dist.    | -3377 Mar 18 j 11:45 | 29°♂48'12 | 0.29287 AU |
| minimum elong       | -3380 Oct 21 j 05:38 | 2°♂57'28  | 0°38'11    | morning rise        | -3377 Mar 23 j 01:32 | 26°♂57'47 |            |
| max. Earth dist.    | -3380 Oct 24 j 00:24 | 6°♂27'47  | 1.70932 AU | direct              | -3377 Apr 08 j 20:23 | 21°♂33'53 |            |
| desc. node          | -3380 Nov 06 j 21:55 | 23°♂57'04 |            | greatest brilliancy | -3377 Apr 18 j 22:47 | 23°♂23'39 | -4.7m      |
|                     | -3380 Nov 11 j 17:29 | 0°♂       |            | desc. node          | -3377 Apr 24 j 16:29 | 25°♂50'10 |            |
| evening rise        | -3380 Dec 02 j 08:58 | 25°♂51'34 |            |                     | -3377 May 01 j 20:56 | 0°♂       |            |
|                     | -3380 Dec 05 j 16:30 | 0°♂       |            | morning max el      | -3377 May 27 j 16:44 | 21°♂19'34 | 45°50'41   |
|                     | -3380 Dec 29 j 18:56 | 0°♂       |            |                     | -3377 Jun 05 j 12:18 | 0°♂       |            |
|                     | -3379 Jan 23 j 02:02 | 0°♂       |            |                     | -3377 Jul 03 j 11:32 | 0°♂       |            |
|                     | -3379 Feb 16 j 16:08 | 0°♂       |            |                     | -3377 Jul 29 j 10:40 | 0°♂       |            |
| asc. node           | -3379 Feb 27 j 18:55 | 13°♂23'59 |            | asc. node           | -3377 Aug 15 j 15:17 | 20°♂36'53 |            |
|                     | -3379 Mar 13 j 16:55 | 0°♂       |            |                     | -3377 Aug 23 j 08:12 | 0°♂       |            |
|                     | -3379 Apr 08 j 10:02 | 0°♂       |            |                     | -3377 Sep 16 j 14:27 | 0°♂       |            |
|                     | -3379 May 05 j 07:02 | 0°♂       |            |                     | -3377 Oct 10 j 12:44 | 0°♂       |            |
| evening max el      | -3379 May 30 j 19:58 | 26°♂11'45 | 45°39'40   |                     | -3377 Nov 03 j 08:39 | 0°♂       |            |
|                     | -3379 Jun 03 j 20:53 | 0°♂       |            | morning set         | -3377 Nov 26 j 23:09 | 29°♂39'30 |            |
| desc. node          | -3379 Jun 19 j 13:38 | 13°♂19'21 |            |                     | -3377 Nov 27 j 05:42 | 0°♂       |            |
| greatest brilliancy | -3379 Jul 09 j 10:25 | 24°♂37'57 | -4.8m      | desc. node          | -3377 Dec 05 j 09:55 | 10°♂14'38 |            |
| retrograde          | -3379 Jul 18 j 20:56 | 26°♂14'41 |            |                     | -3377 Dec 21 j 05:23 | 0°♂       |            |
| evening set         | -3379 Aug 05 j 11:48 | 20°♂31'17 |            |                     |                      |           |            |
| inferior conj       | -3379 Aug 08 j 20:30 | 18°♂30'32 | -8°43'10   | superior conj       | -3376 Jan 07 j 20:25 | 21°♂57'06 | -1°07'18   |
| minimum elong       | -3379 Aug 08 j 16:17 | 18°♂36'56 | 8°42'48    | minimum elong       | -3376 Jan 07 j 09:49 | 21°♂24'07 | 1°07'06    |
| min. Earth dist.    | -3379 Aug 09 j 06:18 | 18°♂15'38 | 0.27451 AU | max. Earth dist.    | -3376 Jan 11 j 22:31 | 27°♂01'45 | 1.72275 AU |
| morning rise        | -3379 Aug 11 j 20:35 | 16°♂41'57 |            |                     | -3376 Jan 14 j 07:57 | 0°♂       |            |
| direct              | -3379 Aug 29 j 19:20 | 10°♂39'21 |            |                     | -3376 Feb 07 j 13:26 | 0°♂       |            |
| greatest brilliancy | -3379 Sep 09 j 17:40 | 12°♂52'24 | -4.9m      | evening rise        | -3376 Feb 16 j 06:53 | 10°♂45'51 |            |
|                     | -3379 Oct 04 j 23:27 | 0°♂       |            | greatest brilliancy | -3376 Feb 21 j 07:30 | 16°♂57'11 | -3.9m      |
| asc. node           | -3379 Oct 10 j 12:17 | 5°♂05'25  |            |                     | -3376 Mar 02 j 22:15 | 0°♂       |            |
| morning max el      | -3379 Oct 19 j 12:31 | 13°♂59'45 | 46°52'22   | asc. node           | -3376 Mar 27 j 07:14 | 29°♂48'08 |            |
|                     | -3379 Nov 03 j 12:11 | 0°♂       |            |                     | -3376 Mar 27 j 11:08 | 0°♂       |            |
|                     | -3379 Nov 29 j 16:29 | 0°♂       |            |                     | -3376 Apr 21 j 05:01 | 0°♂       |            |
|                     | -3379 Dec 24 j 21:27 | 0°♂       |            |                     | -3376 May 16 j 05:15 | 0°♂       |            |
|                     | -3378 Jan 18 j 18:53 | 0°♂       |            |                     | -3376 Jun 10 j 14:46 | 0°♂       |            |
| desc. node          | -3378 Jan 30 j 07:45 | 13°♂57'10 |            |                     | -3376 Jul 06 j 16:26 | 0°♂       |            |
|                     | -3378 Feb 12 j 13:50 | 0°♂       |            | desc. node          | -3376 Jul 17 j 01:19 | 11°♂34'20 |            |
|                     | -3378 Mar 09 j 07:21 | 0°♂       |            |                     | -3376 Aug 03 j 04:51 | 0°♂       |            |
|                     | -3378 Apr 02 j 23:08 | 0°♂       |            | evening max el      | -3376 Aug 12 j 11:30 | 9°♂25'25  | 47°05'57   |
| morning set         | -3378 Apr 22 j 19:41 | 24°♂14'31 |            |                     | -3376 Sep 04 j 15:50 | 0°♂       |            |
|                     | -3378 Apr 27 j 12:36 | 0°♂       |            | greatest brilliancy | -3376 Sep 22 j 14:37 | 10°♂12'34 | -4.9m      |
|                     | -3378 May 21 j 23:08 | 0°♂       |            | retrograde          | -3376 Oct 01 j 21:59 | 11°♂51'38 |            |
| asc. node           | -3378 May 23 j 05:30 | 1°♂33'28  |            | evening set         | -3376 Oct 17 j 02:11 | 7°♂18'43  |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 6

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| inferior conj       | -3376 Oct 22 j 11:06 | 4°♌08'39  | -3°53'09   | superior conj       | -3373 Mar 20 j 10:35 | 2°♎09'33  | -1°10'03   |
| minimum elong       | -3376 Oct 22 j 19:14 | 3°♌56'16  | 3°50'46    | minimum elong       | -3373 Mar 20 j 18:52 | 2°♎34'59  | 1°09'53    |
| min. Earth dist.    | -3376 Oct 22 j 10:54 | 4°♌08'58  | 0.26364 AU | max. Earth dist.    | -3373 Mar 21 j 02:03 | 2°♎57'04  | 1.73595 AU |
| morning rise        | -3376 Oct 28 j 12:19 | 0°♌37'01  |            |                     | -3373 Apr 12 j 02:51 | 0°♎       |            |
|                     | -3376 Oct 29 j 16:54 | 30°♎      |            | asc. node           | -3373 Apr 24 j 19:25 | 15°♎34'10 |            |
| asc. node           | -3376 Nov 06 j 23:47 | 27°♎01'27 |            | evening rise        | -3373 Apr 25 j 21:43 | 16°♎54'50 |            |
| direct              | -3376 Nov 11 j 16:33 | 26°♎33'45 |            |                     | -3373 May 06 j 13:46 | 0°♏       |            |
| greatest brilliancy | -3376 Nov 21 j 20:38 | 28°♎32'41 | -4.9m      |                     | -3373 May 31 j 01:04 | 0°♐       |            |
|                     | -3376 Nov 25 j 07:08 | 0°♏       |            |                     | -3373 Jun 24 j 13:20 | 0°♑       |            |
| morning max el      | -3376 Dec 31 j 23:27 | 29°♏20'15 | 46°35'41   |                     | -3373 Jul 19 j 04:02 | 0°♒       |            |
|                     | -3375 Jan 01 j 15:19 | 0°♐       |            |                     | -3373 Aug 12 j 23:52 | 0°♓       |            |
|                     | -3375 Jan 29 j 18:02 | 0°♑       |            | desc. node          | -3373 Aug 14 j 13:24 | 1°♓52'35  |            |
|                     | -3375 Feb 25 j 03:45 | 0°♒       |            |                     | -3373 Sep 07 j 05:25 | 0°♏       |            |
| desc. node          | -3375 Feb 26 j 19:37 | 1°♒55'10  |            |                     | -3373 Oct 03 j 07:01 | 0°♐       |            |
|                     | -3375 Mar 22 j 20:35 | 0°♓       |            | evening max el      | -3373 Oct 24 j 21:54 | 23°♓17'35 | 47°28'13   |
|                     | -3375 Apr 17 j 03:24 | 0°♏       |            |                     | -3373 Oct 31 j 14:57 | 0°♑       |            |
|                     | -3375 May 12 j 02:20 | 0°♐       |            | greatest brilliancy | -3373 Dec 04 j 06:29 | 25°♑06'08 | -4.9m      |
|                     | -3375 Jun 05 j 17:56 | 0°♏       |            | asc. node           | -3373 Dec 05 j 11:21 | 25°♑33'03 |            |
| asc. node           | -3375 Jun 19 j 17:29 | 17°♏10'53 |            | retrograde          | -3373 Dec 15 j 00:11 | 27°♑18'23 |            |
| morning set         | -3375 Jun 28 j 20:38 | 28°♏27'40 |            | evening set         | -3373 Dec 30 j 20:39 | 22°♑14'19 |            |
|                     | -3375 Jun 30 j 02:28 | 0°♐       |            | min. Earth dist.    | -3372 Jan 03 j 20:25 | 19°♑46'49 | 0.27781 AU |
|                     | -3375 Jul 24 j 04:53 | 0°♑       |            | inferior conj       | -3372 Jan 04 j 22:53 | 19°♑04'48 | 6°35'09    |
| max. Earth dist.    | -3375 Aug 01 j 03:53 | 9°♑57'33  | 1.71739 AU | minimum elong       | -3372 Jan 04 j 13:39 | 19°♑19'27 | 6°33'16    |
|                     |                      |           |            | morning rise        | -3372 Jan 09 j 07:22 | 16°♑23'09 |            |
| superior conj       | -3375 Aug 04 j 20:02 | 14°♑33'46 | 1°20'58    | direct              | -3372 Jan 25 j 18:08 | 11°♑06'22 |            |
| minimum elong       | -3375 Aug 04 j 15:08 | 14°♑18'24 | 1°21'01    | greatest brilliancy | -3372 Feb 03 j 10:43 | 12°♑31'29 | -4.8m      |
|                     | -3375 Aug 17 j 03:08 | 0°♒       |            |                     | -3372 Mar 02 j 03:18 | 0°♓       |            |
|                     | -3375 Sep 09 j 23:46 | 0°♓       |            | morning max el      | -3372 Mar 14 j 17:09 | 11°♓26'09 | 45°58'07   |
| evening rise        | -3375 Sep 12 j 13:14 | 3°♓13'15  |            | desc. node          | -3372 Mar 26 j 07:10 | 22°♓56'05 |            |
|                     | -3375 Oct 03 j 21:02 | 0°♏       |            |                     | -3372 Apr 02 j 02:33 | 0°♏       |            |
| desc. node          | -3375 Oct 09 j 11:47 | 7°♏02'20  |            |                     | -3372 Apr 29 j 12:55 | 0°♎       |            |
|                     | -3375 Oct 27 j 20:28 | 0°♐       |            |                     | -3372 May 25 j 15:00 | 0°♏       |            |
|                     | -3375 Nov 20 j 23:22 | 0°♑       |            |                     | -3372 Jun 19 j 21:57 | 0°♏       |            |
|                     | -3375 Dec 15 j 07:54 | 0°♒       |            |                     | -3372 Jul 14 j 14:46 | 0°♐       |            |
|                     | -3374 Jan 09 j 02:42 | 0°♓       |            | asc. node           | -3372 Jul 17 j 05:34 | 3°♐12'46  |            |
| asc. node           | -3374 Jan 30 j 08:56 | 25°♓01'09 |            |                     | -3372 Aug 07 j 20:44 | 0°♑       |            |
|                     | -3374 Feb 03 j 16:51 | 0°♏       |            |                     | -3372 Aug 31 j 19:13 | 0°♒       |            |
|                     | -3374 Mar 02 j 22:25 | 0°♐       |            | greatest brilliancy | -3372 Sep 05 j 11:24 | 5°♒53'15  | -3.9m      |
| evening max el      | -3374 Mar 18 j 00:36 | 15°♐10'16 | 45°10'54   | morning set         | -3372 Sep 07 j 22:33 | 8°♒59'41  |            |
|                     | -3374 Apr 03 j 22:31 | 0°♏       |            |                     | -3372 Sep 24 j 14:00 | 0°♓       |            |
| greatest brilliancy | -3374 Apr 24 j 12:14 | 12°♏19'33 | -4.7m      |                     |                      |           |            |
| retrograde          | -3374 May 05 j 05:31 | 14°♏21'32 |            | superior conj       | -3372 Oct 18 j 05:45 | 29°♓51'38 | 0°42'05    |
| evening set         | -3374 May 20 j 02:35 | 10°♏08'14 |            | minimum elong       | -3372 Oct 18 j 15:41 | 0°♏22'57  | 0°41'40    |
| desc. node          | -3374 May 22 j 04:00 | 8°♏59'20  |            |                     | -3372 Oct 18 j 08:24 | 0°♏       |            |
| inferior conj       | -3374 May 26 j 14:06 | 6°♏19'02  | -1°01'43   | max. Earth dist.    | -3372 Oct 21 j 00:03 | 3°♏20'31  | 1.70917 AU |
| minimum elong       | -3374 May 26 j 11:50 | 6°♏22'32  | 1°00'58    | desc. node          | -3372 Nov 05 j 23:56 | 23°♏28'23 |            |
| min. Earth dist.    | -3374 May 27 j 02:09 | 6°♏00'24  | 0.28696 AU |                     | -3372 Nov 11 j 04:37 | 0°♐       |            |
| morning rise        | -3374 Jun 01 j 20:35 | 2°♏35'32  |            | evening rise        | -3372 Nov 29 j 18:08 | 23°♐15'22 |            |
|                     | -3374 Jun 07 j 08:41 | 30°♎      |            |                     | -3372 Dec 05 j 03:39 | 0°♑       |            |
| direct              | -3374 Jun 17 j 07:39 | 28°♎03'35 |            |                     | -3372 Dec 29 j 06:08 | 0°♒       |            |
|                     | -3374 Jun 27 j 16:01 | 0°♏       |            |                     | -3371 Jan 22 j 13:21 | 0°♓       |            |
| greatest brilliancy | -3374 Jun 28 j 07:32 | 0°♏14'18  | -4.8m      |                     | -3371 Feb 16 j 03:47 | 0°♏       |            |
| morning max el      | -3374 Aug 05 j 23:48 | 29°♏11'14 | 46°21'27   | asc. node           | -3371 Feb 26 j 21:07 | 12°♏54'49 |            |
|                     | -3374 Aug 06 j 19:33 | 0°♐       |            |                     | -3371 Mar 13 j 05:16 | 0°♏       |            |
|                     | -3374 Sep 03 j 19:28 | 0°♑       |            |                     | -3371 Apr 07 j 23:45 | 0°♏       |            |
| asc. node           | -3374 Sep 12 j 02:59 | 9°♑32'32  |            |                     | -3371 May 04 j 23:44 | 0°♐       |            |
|                     | -3374 Sep 29 j 10:15 | 0°♒       |            | evening max el      | -3371 May 28 j 08:47 | 23°♐51'57 | 45°37'24   |
|                     | -3374 Oct 24 j 01:16 | 0°♓       |            |                     | -3371 Jun 03 j 22:51 | 0°♑       |            |
|                     | -3374 Nov 17 j 06:47 | 0°♏       |            | desc. node          | -3371 Jun 18 j 15:45 | 12°♑08'44 |            |
|                     | -3374 Dec 11 j 10:17 | 0°♐       |            | greatest brilliancy | -3371 Jul 06 j 22:22 | 22°♑16'46 | -4.8m      |
| desc. node          | -3373 Jan 01 j 21:58 | 26°♐38'29 |            | retrograde          | -3371 Jul 16 j 09:46 | 23°♑54'33 |            |
|                     | -3373 Jan 04 j 15:07 | 0°♑       |            | evening set         | -3371 Aug 02 j 21:52 | 18°♑15'17 |            |
|                     | -3373 Jan 28 j 22:02 | 0°♒       |            | inferior conj       | -3371 Aug 06 j 09:58 | 16°♑09'47 | -8°37'45   |
| morning set         | -3373 Feb 10 j 16:03 | 15°♒42'41 |            | minimum elong       | -3371 Aug 06 j 04:55 | 16°♑17'26 | 8°37'16    |
|                     | -3373 Feb 22 j 06:39 | 0°♓       |            | min. Earth dist.    | -3371 Aug 06 j 19:42 | 15°♑55'00 | 0.27501 AU |
|                     | -3373 Mar 18 j 16:23 | 0°♏       |            | morning rise        | -3371 Aug 09 j 11:45 | 14°♑18'46 |            |
|                     |                      |           |            | direct              | -3371 Aug 27 j 08:56 | 8°♑17'29  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
| greatest brilliancy | -3371 Sep 07 j 08:44 | 10° $\text{☿}$ 31'34 | -4.9m      | evening rise        | -3368 Feb 13 j 21:35 | 8° $\approx$ 29'50   |            |
|                     | -3371 Oct 05 j 04:58 | 0° $\Omega$          |            | greatest brilliancy | -3368 Feb 19 j 07:48 | 15° $\approx$ 10'48  | -3.9m      |
| asc. node           | -3371 Oct 09 j 14:26 | 4° $\Omega$ 07'56    |            |                     | -3368 Mar 02 j 09:10 | 0° $\text{✠}$        |            |
| morning max el      | -3371 Oct 17 j 01:54 | 11° $\Omega$ 33'49   | 46°51'58   | asc. node           | -3368 Mar 26 j 09:15 | 29° $\text{✠}$ 20'29 |            |
|                     | -3371 Nov 03 j 06:14 | 0° $\text{♍}$        |            |                     | -3368 Mar 26 j 22:14 | 0° $\text{♍}$        |            |
|                     | -3371 Nov 29 j 07:17 | 0° $\Omega$          |            |                     | -3368 Apr 20 j 16:30 | 0° $\text{♄}$        |            |
|                     | -3371 Dec 24 j 10:43 | 0° $\text{♍}$        |            |                     | -3368 May 15 j 17:27 | 0° $\text{♀}$        |            |
|                     | -3370 Jan 18 j 07:13 | 0° $\text{♁}$        |            |                     | -3368 Jun 10 j 04:11 | 0° $\text{☿}$        |            |
| desc. node          | -3370 Jan 29 j 09:59 | 13° $\text{♁}$ 27'35 |            |                     | -3368 Jul 06 j 08:06 | 0° $\Omega$          |            |
|                     | -3370 Feb 12 j 01:32 | 0° $\text{♄}$        |            | desc. node          | -3368 Jul 16 j 03:32 | 10° $\Omega$ 53'38   |            |
|                     | -3370 Mar 08 j 18:35 | 0° $\approx$         |            |                     | -3368 Aug 03 j 01:39 | 0° $\text{♍}$        |            |
|                     | -3370 Apr 02 j 10:04 | 0° $\text{✠}$        |            | evening max el      | -3368 Aug 10 j 01:41 | 7° $\text{♍}$ 03'35  | 47°03'28   |
| morning set         | -3370 Apr 20 j 14:15 | 22° $\text{✠}$ 11'29 |            |                     | -3368 Sep 05 j 14:19 | 0° $\Omega$          |            |
|                     | -3370 Apr 26 j 23:22 | 0° $\text{♍}$        |            | greatest brilliancy | -3368 Sep 20 j 03:04 | 7° $\Omega$ 43'08    | -4.9m      |
|                     | -3370 May 21 j 09:51 | 0° $\text{♄}$        |            | retrograde          | -3368 Sep 29 j 10:44 | 9° $\Omega$ 21'52    |            |
| asc. node           | -3370 May 22 j 07:32 | 1° $\text{♄}$ 06'46  |            | evening set         | -3368 Oct 14 j 17:04 | 4° $\Omega$ 45'34    |            |
| max. Earth dist.    | -3370 May 23 j 03:08 | 2° $\text{♄}$ 07'07  | 1.73396 AU | inferior conj       | -3368 Oct 19 j 23:11 | 1° $\Omega$ 39'19    | -4°15'12   |
|                     |                      |                      |            | minimum elong       | -3368 Oct 20 j 07:55 | 1° $\Omega$ 26'01    | 4°12'41    |
| superior conj       | -3370 May 26 j 11:43 | 6° $\text{♄}$ 15'22  | 0°09'49    | min. Earth dist.    | -3368 Oct 19 j 23:45 | 1° $\Omega$ 38'28    | 0.26366 AU |
| minimum elong       | -3370 May 26 j 09:47 | 6° $\text{♄}$ 09'24  | 0°09'48    |                     | -3368 Oct 22 j 17:07 | 30° $\text{♍}$       |            |
| behind sun begin    | -3370 May 25 j 16:13 | 5° $\text{♄}$ 15'16  |            | morning rise        | -3368 Oct 25 j 22:52 | 28° $\text{♍}$ 10'08 |            |
| behind sun end      | -3370 May 27 j 03:21 | 7° $\text{♄}$ 03'32  |            | asc. node           | -3368 Nov 06 j 01:47 | 24° $\text{♍}$ 17'10 |            |
|                     | -3370 Jun 14 j 17:07 | 0° $\text{♀}$        |            | direct              | -3368 Nov 09 j 05:26 | 24° $\text{♍}$ 04'45 |            |
| evening rise        | -3370 Jul 01 j 04:05 | 20° $\text{♀}$ 24'08 |            | greatest brilliancy | -3368 Nov 19 j 09:22 | 26° $\text{♍}$ 03'56 | -4.9m      |
|                     | -3370 Jul 08 j 21:34 | 0° $\text{☿}$        |            |                     | -3368 Nov 27 j 11:03 | 0° $\Omega$          |            |
|                     | -3370 Aug 02 j 00:29 | 0° $\Omega$          |            | morning max el      | -3368 Dec 29 j 13:38 | 26° $\Omega$ 58'13   | 46°36'47   |
|                     | -3370 Aug 26 j 03:49 | 0° $\text{♍}$        |            |                     | -3367 Jan 01 j 13:35 | 0° $\text{♍}$        |            |
| desc. node          | -3370 Sep 11 j 01:38 | 19° $\text{♍}$ 42'30 |            |                     | -3367 Jan 29 j 10:07 | 0° $\text{♁}$        |            |
|                     | -3370 Sep 19 j 09:32 | 0° $\Omega$          |            |                     | -3367 Feb 24 j 17:25 | 0° $\text{♄}$        |            |
|                     | -3370 Oct 13 j 19:45 | 0° $\text{♍}$        |            | desc. node          | -3367 Feb 25 j 21:43 | 1° $\text{♄}$ 21'57  |            |
|                     | -3370 Nov 07 j 14:16 | 0° $\text{♁}$        |            |                     | -3367 Mar 22 j 08:59 | 0° $\approx$         |            |
|                     | -3370 Dec 03 j 02:25 | 0° $\text{♄}$        |            |                     | -3367 Apr 16 j 15:03 | 0° $\text{✠}$        |            |
|                     | -3370 Dec 30 j 10:31 | 0° $\approx$         |            |                     | -3367 May 11 j 13:32 | 0° $\text{♍}$        |            |
| asc. node           | -3369 Jan 01 j 23:13 | 2° $\approx$ 35'02   |            |                     | -3367 Jun 05 j 04:51 | 0° $\text{♄}$        |            |
| evening max el      | -3369 Jan 03 j 17:01 | 4° $\approx$ 20'14   | 46°13'29   | asc. node           | -3367 Jun 18 j 19:41 | 16° $\text{♄}$ 44'10 |            |
|                     | -3369 Feb 03 j 11:04 | 0° $\text{✠}$        |            | morning set         | -3367 Jun 26 j 13:58 | 26° $\text{♄}$ 19'21 |            |
| greatest brilliancy | -3369 Feb 11 j 15:58 | 4° $\text{✠}$ 02'31  | -4.8m      |                     | -3367 Jun 29 j 13:17 | 0° $\text{♀}$        |            |
| retrograde          | -3369 Feb 22 j 11:07 | 6° $\text{✠}$ 12'21  |            |                     | -3367 Jul 23 j 15:43 | 0° $\text{☿}$        |            |
| evening set         | -3369 Mar 11 j 19:02 | 0° $\text{✠}$ 24'42  |            | max. Earth dist.    | -3367 Jul 29 j 14:12 | 7° $\text{☿}$ 25'36  | 1.71798 AU |
|                     | -3369 Mar 12 j 11:18 | 30° $\text{♍}$       |            |                     |                      |                      |            |
| inferior conj       | -3369 Mar 15 j 21:40 | 27° $\approx$ 50'39  | 7°16'47    | superior conj       | -3367 Aug 02 j 11:39 | 12° $\text{☿}$ 18'10 | 1°19'59    |
| minimum elong       | -3369 Mar 16 j 05:16 | 27° $\approx$ 38'34  | 7°15'42    | minimum elong       | -3367 Aug 02 j 06:08 | 12° $\text{☿}$ 00'54 | 1°20'01    |
| min. Earth dist.    | -3369 Mar 16 j 03:26 | 27° $\approx$ 41'29  | 0.29279 AU |                     | -3367 Aug 16 j 14:05 | 0° $\Omega$          |            |
| morning rise        | -3369 Mar 20 j 15:34 | 24° $\approx$ 53'36  |            |                     | -3367 Sep 09 j 10:51 | 0° $\text{♍}$        |            |
| direct              | -3369 Apr 06 j 12:43 | 19° $\approx$ 25'25  |            | evening rise        | -3367 Sep 10 j 00:45 | 0° $\text{♍}$ 43'42  |            |
| greatest brilliancy | -3369 Apr 16 j 13:54 | 21° $\approx$ 14'28  | -4.7m      |                     | -3367 Oct 03 j 08:15 | 0° $\Omega$          |            |
| desc. node          | -3369 Apr 23 j 18:30 | 24° $\approx$ 25'34  |            | desc. node          | -3367 Oct 08 j 13:47 | 6° $\Omega$ 33'20    |            |
|                     | -3369 May 02 j 16:52 | 0° $\text{✠}$        |            |                     | -3367 Oct 27 j 07:50 | 0° $\text{♍}$        |            |
| morning max el      | -3369 May 25 j 09:42 | 19° $\text{✠}$ 12'33 | 45°50'14   |                     | -3367 Nov 20 j 10:56 | 0° $\text{♁}$        |            |
|                     | -3369 Jun 05 j 07:22 | 0° $\text{♍}$        |            |                     | -3367 Dec 14 j 19:50 | 0° $\text{♄}$        |            |
|                     | -3369 Jul 03 j 02:09 | 0° $\text{♄}$        |            |                     | -3366 Jan 08 j 15:20 | 0° $\approx$         |            |
|                     | -3369 Jul 28 j 23:31 | 0° $\text{♀}$        |            | asc. node           | -3366 Jan 29 j 11:04 | 24° $\approx$ 27'37  |            |
| asc. node           | -3369 Aug 14 j 17:24 | 20° $\text{♀}$ 06'22 |            |                     | -3366 Feb 03 j 06:59 | 0° $\text{✠}$        |            |
|                     | -3369 Aug 22 j 20:10 | 0° $\text{☿}$        |            |                     | -3366 Mar 02 j 16:22 | 0° $\text{♍}$        |            |
|                     | -3369 Sep 16 j 01:58 | 0° $\Omega$          |            | evening max el      | -3366 Mar 15 j 16:29 | 13° $\text{♍}$ 00'16 | 45°11'29   |
|                     | -3369 Oct 10 j 00:01 | 0° $\text{♍}$        |            |                     | -3366 Apr 04 j 10:17 | 0° $\text{♄}$        |            |
|                     | -3369 Nov 02 j 19:47 | 0° $\Omega$          |            | greatest brilliancy | -3366 Apr 22 j 04:24 | 10° $\text{♄}$ 10'51 | -4.7m      |
| morning set         | -3369 Nov 24 j 09:00 | 27° $\Omega$ 05'12   |            | retrograde          | -3366 May 02 j 20:45 | 12° $\text{♄}$ 12'05 |            |
|                     | -3369 Nov 26 j 16:45 | 0° $\text{♍}$        |            | evening set         | -3366 May 17 j 18:51 | 7° $\text{♄}$ 58'15  |            |
| desc. node          | -3369 Dec 04 j 12:01 | 9° $\text{♍}$ 46'44  |            | desc. node          | -3366 May 21 j 06:09 | 5° $\text{♄}$ 59'17  |            |
|                     | -3369 Dec 20 j 16:21 | 0° $\text{♁}$        |            | inferior conj       | -3366 May 24 j 06:01 | 4° $\text{♄}$ 09'09  | -0°41'46   |
|                     |                      |                      |            | minimum elong       | -3366 May 24 j 04:28 | 4° $\text{♄}$ 11'32  | 0°41'16    |
| superior conj       | -3368 Jan 05 j 07:57 | 19° $\text{♁}$ 29'46 | -1°04'59   | min. Earth dist.    | -3366 May 24 j 18:34 | 3° $\text{♄}$ 49'41  | 0.28731 AU |
| minimum elong       | -3368 Jan 04 j 21:02 | 18° $\text{♁}$ 55'49 | 1°04'47    | morning rise        | -3366 May 30 j 13:33 | 0° $\text{♄}$ 23'36  |            |
| max. Earth dist.    | -3368 Jan 09 j 10:24 | 24° $\text{♁}$ 35'43 | 1.72222 AU |                     | -3366 May 31 j 07:07 | 30° $\text{♍}$       |            |
|                     | -3368 Jan 13 j 18:50 | 0° $\text{♄}$        |            | direct              | -3366 Jun 14 j 23:49 | 25° $\text{♍}$ 53'09 |            |
|                     | -3368 Feb 07 j 00:18 | 0° $\approx$         |            | greatest brilliancy | -3366 Jun 25 j 23:16 | 28° $\text{♍}$ 02'55 | -4.8m      |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|--|
|                     | -3366 Jun 30 j 10:08 | 0°♄       |            |                     |  | -3363 Feb 15 j 15:33 | 0°♁       |            |  |
| morning max el      | -3366 Aug 03 j 14:07 | 26°♄53'51 | 46°20'00   | asc. node           |  | -3363 Feb 25 j 23:10 | 12°♁25'00 |            |  |
|                     | -3366 Aug 06 j 16:59 | 0°♂       |            |                     |  | -3363 Mar 12 j 17:44 | 0°♁       |            |  |
|                     | -3366 Sep 03 j 11:09 | 0°♄       |            |                     |  | -3363 Apr 07 j 13:41 | 0°♄       |            |  |
| asc. node           | -3366 Sep 11 j 05:04 | 8°♄55'31  |            |                     |  | -3363 May 04 j 16:56 | 0°♂       |            |  |
|                     | -3366 Sep 28 j 23:51 | 0°♂       |            | evening max el      |  | -3363 May 25 j 22:18 | 21°♂33'26 | 45°35'01   |  |
|                     | -3366 Oct 23 j 13:52 | 0°♁       |            |                     |  | -3363 Jun 04 j 02:40 | 0°♄       |            |  |
|                     | -3366 Nov 16 j 18:48 | 0°♂       |            | desc. node          |  | -3363 Jun 17 j 17:58 | 10°♄55'19 |            |  |
|                     | -3366 Dec 10 j 21:53 | 0°♂       |            | greatest brilliancy |  | -3363 Jul 04 j 09:37 | 19°♄54'01 | -4.8m      |  |
| desc. node          | -3365 Jan 01 j 00:11 | 26°♂10'14 |            | retrograde          |  | -3363 Jul 13 j 22:57 | 21°♄33'26 |            |  |
|                     | -3365 Jan 04 j 02:24 | 0°♁       |            | evening set         |  | -3363 Jul 31 j 07:30 | 15°♄58'32 |            |  |
|                     | -3365 Jan 28 j 09:05 | 0°♄       |            | inferior conj       |  | -3363 Aug 03 j 23:17 | 13°♄47'55 | -8°31'15   |  |
| morning set         | -3365 Feb 08 j 06:37 | 13°♄26'06 |            | minimum elong       |  | -3363 Aug 03 j 17:28 | 13°♄56'43 | 8°30'38    |  |
|                     | -3365 Feb 21 j 17:31 | 0°♁       |            | min. Earth dist.    |  | -3363 Aug 04 j 08:46 | 13°♄33'34 | 0.27553 AU |  |
|                     |                      |           |            | morning rise        |  | -3363 Aug 07 j 03:12 | 11°♄53'55 |            |  |
| superior conj       | -3365 Mar 18 j 04:07 | 0°♁02'58  | -1°11'45   | direct              |  | -3363 Aug 24 j 22:57 | 5°♄54'29  |            |  |
| minimum elong       | -3365 Mar 18 j 12:09 | 0°♁27'37  | 1°11'37    | greatest brilliancy |  | -3363 Sep 04 j 23:21 | 8°♄09'19  | -4.9m      |  |
|                     | -3365 Mar 18 j 03:09 | 0°♁       |            |                     |  | -3363 Oct 05 j 09:02 | 0°♂       |            |  |
| max. Earth dist.    | -3365 Mar 18 j 23:13 | 1°♁01'35  | 1.73572 AU | asc. node           |  | -3363 Oct 08 j 16:29 | 3°♂10'36  |            |  |
|                     | -3365 Apr 11 j 13:38 | 0°♁       |            | morning max el      |  | -3363 Oct 14 j 16:11 | 9°♂09'30  | 46°51'38   |  |
| evening rise        | -3365 Apr 23 j 16:43 | 14°♁52'37 |            |                     |  | -3363 Nov 03 j 00:11 | 0°♁       |            |  |
| asc. node           | -3365 Apr 23 j 21:28 | 15°♁07'12 |            |                     |  | -3363 Nov 28 j 22:10 | 0°♂       |            |  |
|                     | -3365 May 06 j 00:41 | 0°♄       |            |                     |  | -3363 Dec 24 j 00:06 | 0°♂       |            |  |
|                     | -3365 May 30 j 12:15 | 0°♂       |            |                     |  | -3362 Jan 17 j 19:43 | 0°♁       |            |  |
|                     | -3365 Jun 24 j 00:56 | 0°♄       |            | desc. node          |  | -3362 Jan 28 j 11:59 | 12°♁56'41 |            |  |
|                     | -3365 Jul 18 j 16:16 | 0°♂       |            |                     |  | -3362 Feb 11 j 13:24 | 0°♄       |            |  |
|                     | -3365 Aug 12 j 13:00 | 0°♁       |            |                     |  | -3362 Mar 08 j 06:00 | 0°♁       |            |  |
| desc. node          | -3365 Aug 13 j 15:28 | 1°♁19'15  |            |                     |  | -3362 Apr 01 j 21:10 | 0°♁       |            |  |
|                     | -3365 Sep 06 j 20:01 | 0°♂       |            | morning set         |  | -3362 Apr 18 j 09:10 | 20°♁08'59 |            |  |
|                     | -3365 Oct 03 j 00:29 | 0°♂       |            |                     |  | -3362 Apr 26 j 10:18 | 0°♁       |            |  |
| evening max el      | -3365 Oct 22 j 12:20 | 20°♂54'29 | 47°29'26   |                     |  | -3362 May 20 j 20:44 | 0°♄       |            |  |
|                     | -3365 Oct 31 j 16:47 | 0°♁       |            | max. Earth dist.    |  | -3362 May 21 j 03:16 | 0°♄20'06  | 1.73434 AU |  |
| greatest brilliancy | -3365 Dec 01 j 23:21 | 22°♁47'07 | -4.9m      | asc. node           |  | -3362 May 21 j 09:46 | 0°♄40'05  |            |  |
| asc. node           | -3365 Dec 04 j 13:39 | 23°♁41'27 |            |                     |  |                      |           |            |  |
| retrograde          | -3365 Dec 12 j 15:05 | 24°♁57'48 |            | superior conj       |  | -3362 May 24 j 06:51 | 4°♄12'52  | 0°06'48    |  |
| evening set         | -3365 Dec 28 j 08:49 | 19°♁58'50 |            | minimum elong       |  | -3362 May 24 j 05:30 | 4°♄08'42  | 0°06'48    |  |
| min. Earth dist.    | -3364 Jan 01 j 11:28 | 17°♁27'20 | 0.27698 AU | behind sun begin    |  | -3362 May 23 j 09:21 | 3°♄06'37  |            |  |
| inferior conj       | -3364 Jan 02 j 13:48 | 16°♁45'31 | 6°21'47    | behind sun end      |  | -3362 May 25 j 01:40 | 5°♄10'48  |            |  |
| minimum elong       | -3364 Jan 02 j 04:27 | 17°♁00'23 | 6°19'48    |                     |  | -3362 Jun 14 j 04:05 | 0°♂       |            |  |
| morning rise        | -3364 Jan 07 j 00:46 | 14°♁00'12 |            | evening rise        |  | -3362 Jun 28 j 22:44 | 18°♂18'46 |            |  |
| direct              | -3364 Jan 23 j 07:45 | 8°♁48'26  |            |                     |  | -3362 Jul 08 j 08:43 | 0°♄       |            |  |
| greatest brilliancy | -3364 Feb 01 j 01:23 | 10°♁14'06 | -4.8m      |                     |  | -3362 Aug 01 j 11:55 | 0°♂       |            |  |
|                     | -3364 Mar 02 j 08:31 | 0°♄       |            |                     |  | -3362 Aug 25 j 15:37 | 0°♁       |            |  |
| morning max el      | -3364 Mar 12 j 06:35 | 9°♄08'23  | 45°59'10   | desc. node          |  | -3362 Sep 10 j 03:38 | 19°♁11'24 |            |  |
| desc. node          | -3364 Mar 25 j 09:12 | 22°♄12'48 |            |                     |  | -3362 Sep 18 j 21:46 | 0°♂       |            |  |
|                     | -3364 Apr 01 j 19:58 | 0°♁       |            |                     |  | -3362 Oct 13 j 08:34 | 0°♂       |            |  |
|                     | -3364 Apr 29 j 02:59 | 0°♁       |            |                     |  | -3362 Nov 07 j 04:01 | 0°♁       |            |  |
|                     | -3364 May 25 j 03:35 | 0°♁       |            |                     |  | -3362 Dec 02 j 18:00 | 0°♄       |            |  |
|                     | -3364 Jun 19 j 09:46 | 0°♄       |            |                     |  | -3362 Dec 30 j 07:06 | 0°♁       |            |  |
|                     | -3364 Jul 14 j 02:13 | 0°♂       |            | asc. node           |  | -3361 Jan 01 j 01:19 | 1°♁46'40  |            |  |
| asc. node           | -3364 Jul 16 j 07:41 | 2°♂44'13  |            | evening max el      |  | -3361 Jan 01 j 09:07 | 2°♁06'14  | 46°16'39   |  |
|                     | -3364 Aug 07 j 07:59 | 0°♄       |            |                     |  | -3361 Feb 05 j 02:31 | 0°♁       |            |  |
|                     | -3364 Aug 31 j 06:23 | 0°♂       |            | greatest brilliancy |  | -3361 Feb 09 j 08:25 | 1°♁52'50  | -4.8m      |  |
| greatest brilliancy | -3364 Sep 04 j 07:12 | 5°♂04'52  | -3.9m      | retrograde          |  | -3361 Feb 20 j 04:54 | 4°♁03'46  |            |  |
| morning set         | -3364 Sep 05 j 11:20 | 6°♂33'28  |            |                     |  | -3361 Mar 06 j 11:15 | 30°♁      |            |  |
|                     | -3364 Sep 24 j 01:10 | 0°♁       |            | evening set         |  | -3361 Mar 09 j 14:10 | 28°♁12'31 |            |  |
|                     |                      |           |            | inferior conj       |  | -3361 Mar 13 j 14:40 | 25°♁41'34 | 7°25'38    |  |
| superior conj       | -3364 Oct 15 j 15:14 | 27°♁14'56 | 0°45'30    | minimum elong       |  | -3361 Mar 13 j 21:53 | 25°♁30'04 | 7°24'40    |  |
| minimum elong       | -3364 Oct 16 j 01:39 | 27°♁47'44 | 0°45'04    | min. Earth dist.    |  | -3361 Mar 13 j 19:00 | 25°♁34'41 | 0.29264 AU |  |
|                     | -3364 Oct 17 j 19:36 | 0°♂       |            | morning rise        |  | -3361 Mar 18 j 05:44 | 22°♁48'52 |            |  |
| max. Earth dist.    | -3364 Oct 18 j 00:53 | 0°♂16'38  | 1.70907 AU | direct              |  | -3361 Apr 04 j 05:36 | 17°♁16'41 |            |  |
| desc. node          | -3364 Nov 05 j 02:01 | 22°♂59'37 |            | greatest brilliancy |  | -3361 Apr 14 j 04:31 | 19°♁04'17 | -4.7m      |  |
|                     | -3364 Nov 10 j 15:53 | 0°♂       |            | desc. node          |  | -3361 Apr 22 j 20:37 | 23°♁03'20 |            |  |
| evening rise        | -3364 Nov 27 j 03:17 | 20°♂38'40 |            |                     |  | -3361 May 03 j 07:57 | 0°♁       |            |  |
|                     | -3364 Dec 04 j 14:57 | 0°♁       |            | morning max el      |  | -3361 May 23 j 03:01 | 17°♁05'59 | 45°49'50   |  |
|                     | -3364 Dec 28 j 17:28 | 0°♄       |            |                     |  | -3361 Jun 05 j 02:08 | 0°♁       |            |  |
|                     | -3363 Jan 22 j 00:48 | 0°♁       |            |                     |  | -3361 Jul 02 j 16:48 | 0°♄       |            |  |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3361 Jul 28 j 12:32 | 0°♐       |            | asc. node           | -3358 Jan 28 j 13:07 | 23°♊52'29 |            |
| asc. node           | -3361 Aug 13 j 19:27 | 19°♐34'51 |            |                     | -3358 Feb 02 j 21:40 | 0°♋       |            |
|                     | -3361 Aug 22 j 08:25 | 0°♌       |            |                     | -3358 Mar 02 j 11:10 | 0°♌       |            |
|                     | -3361 Sep 15 j 13:49 | 0°♍       |            | evening max el      | -3358 Mar 13 j 07:32 | 10°♌47'17 | 45°12'19   |
|                     | -3361 Oct 09 j 11:41 | 0°♎       |            |                     | -3358 Apr 05 j 02:30 | 0°♏       |            |
|                     | -3361 Nov 02 j 07:21 | 0°♏       |            | greatest brilliancy | -3358 Apr 19 j 20:46 | 8°♏01'49  | -4.7m      |
| morning set         | -3361 Nov 21 j 18:38 | 24°♏28'54 |            | retrograde          | -3358 Apr 30 j 12:05 | 10°♏02'35 |            |
|                     | -3361 Nov 26 j 04:11 | 0°♐       |            | evening set         | -3358 May 15 j 11:25 | 5°♏47'41  |            |
| desc. node          | -3361 Dec 03 j 14:14 | 9°♐17'56  |            | desc. node          | -3358 May 20 j 08:23 | 2°♏57'31  |            |
|                     | -3361 Dec 20 j 03:40 | 0°♑       |            | inferior conj       | -3358 May 21 j 22:07 | 1°♏59'11  | -0°21'57   |
|                     |                      |           |            | minimum elong       | -3358 May 21 j 21:19 | 2°♏00'26  | 0°21'39    |
| superior conj       | -3360 Jan 02 j 19:05 | 17°♑00'02 | -1°02'32   | min. Earth dist.    | -3358 May 22 j 11:27 | 1°♏38'29  | 0.28764 AU |
| minimum elong       | -3360 Jan 02 j 07:58 | 16°♑25'27 | 1°02'18    |                     | -3358 May 25 j 03:37 | 30°♑♌     |            |
| max. Earth dist.    | -3360 Jan 07 j 00:33 | 22°♑15'35 | 1.72165 AU | morning rise        | -3358 May 28 j 06:34 | 28°♑11'49 |            |
|                     | -3360 Jan 13 j 06:04 | 0°♒       |            | direct              | -3358 Jun 12 j 15:39 | 23°♑42'27 |            |
|                     | -3360 Feb 06 j 11:30 | 0°♓       |            | greatest brilliancy | -3358 Jun 23 j 15:45 | 25°♑52'08 | -4.8m      |
| evening rise        | -3360 Feb 11 j 12:14 | 6°♓12'28  |            |                     | -3358 Jul 02 j 02:58 | 0°♒       |            |
| greatest brilliancy | -3360 Feb 18 j 04:32 | 14°♓26'17 | -3.9m      | morning max el      | -3358 Aug 01 j 04:31 | 24°♒36'24 | 46°18'46   |
|                     | -3360 Mar 01 j 20:25 | 0°♈       |            |                     | -3358 Aug 06 j 13:51 | 0°♒       |            |
| asc. node           | -3360 Mar 25 j 11:23 | 28°♈52'11 |            |                     | -3358 Sep 03 j 02:43 | 0°♌       |            |
|                     | -3360 Mar 26 j 09:40 | 0°♉       |            | asc. node           | -3358 Sep 10 j 07:13 | 8°♌18'39  |            |
|                     | -3360 Apr 20 j 04:19 | 0°♊       |            |                     | -3358 Sep 28 j 13:29 | 0°♍       |            |
|                     | -3360 May 15 j 05:58 | 0°♋       |            |                     | -3358 Oct 23 j 02:34 | 0°♎       |            |
|                     | -3360 Jun 09 j 17:57 | 0°♌       |            |                     | -3358 Nov 16 j 06:58 | 0°♏       |            |
|                     | -3360 Jul 06 j 00:14 | 0°♍       |            |                     | -3358 Dec 10 j 09:43 | 0°♐       |            |
| desc. node          | -3360 Jul 15 j 05:33 | 10°♍11'15 |            | desc. node          | -3358 Dec 31 j 02:12 | 25°♐40'31 |            |
|                     | -3360 Aug 02 j 23:32 | 0°♎       |            |                     | -3357 Jan 03 j 13:59 | 0°♑       |            |
| evening max el      | -3360 Aug 07 j 15:49 | 4°♎40'48  | 47°00'34   |                     | -3357 Jan 27 j 20:26 | 0°♒       |            |
|                     | -3360 Sep 06 j 22:04 | 0°♏       |            | morning set         | -3357 Feb 05 j 20:29 | 11°♒06'17 |            |
| greatest brilliancy | -3360 Sep 17 j 15:43 | 5°♏12'36  | -4.9m      |                     | -3357 Feb 21 j 04:40 | 0°♓       |            |
| retrograde          | -3360 Sep 26 j 22:55 | 6°♏50'14  |            |                     |                      |           |            |
| evening set         | -3360 Oct 12 j 07:58 | 2°♏10'39  |            | superior conj       | -3357 Mar 15 j 21:14 | 27°♓54'14 | -1°13'21   |
|                     | -3360 Oct 16 j 01:07 | 30°♑♎     |            | minimum elong       | -3357 Mar 16 j 04:58 | 28°♓17'59 | 1°13'15    |
| inferior conj       | -3360 Oct 17 j 11:08 | 29°♑08'18 | -4°36'45   | max. Earth dist.    | -3357 Mar 16 j 18:30 | 28°♓59'33 | 1.73543 AU |
| minimum elong       | -3360 Oct 17 j 20:24 | 28°♑54'10 | 4°34'08    |                     | -3357 Mar 17 j 14:11 | 0°♈       |            |
| min. Earth dist.    | -3360 Oct 17 j 12:45 | 29°♑05'50 | 0.26375 AU |                     | -3357 Apr 11 j 00:38 | 0°♉       |            |
| morning rise        | -3360 Oct 23 j 08:57 | 25°♑41'37 |            | evening rise        | -3357 Apr 21 j 11:29 | 12°♑49'07 |            |
| asc. node           | -3360 Nov 05 j 04:05 | 21°♑37'05 |            | asc. node           | -3357 Apr 22 j 23:41 | 14°♑40'07 |            |
| direct              | -3360 Nov 06 j 18:05 | 21°♑33'58 |            |                     | -3357 May 05 j 11:48 | 0°♊       |            |
| greatest brilliancy | -3360 Nov 16 j 22:21 | 23°♑33'27 | -4.9m      |                     | -3357 May 29 j 23:39 | 0°♋       |            |
|                     | -3360 Nov 28 j 22:20 | 0°♌       |            |                     | -3357 Jun 23 j 12:44 | 0°♌       |            |
| morning max el      | -3360 Dec 27 j 02:56 | 24°♌32'09 | 46°37'58   |                     | -3357 Jul 18 j 04:39 | 0°♍       |            |
|                     | -3359 Jan 01 j 11:37 | 0°♎       |            |                     | -3357 Aug 12 j 02:17 | 0°♎       |            |
|                     | -3359 Jan 29 j 02:25 | 0°♏       |            | desc. node          | -3357 Aug 12 j 17:33 | 0°♎45'38  |            |
|                     | -3359 Feb 24 j 07:21 | 0°♐       |            |                     | -3357 Sep 06 j 10:48 | 0°♏       |            |
| desc. node          | -3359 Feb 24 j 23:48 | 0°♑47'46  |            |                     | -3357 Oct 02 j 18:18 | 0°♐       |            |
|                     | -3359 Mar 21 j 21:40 | 0°♒       |            | evening max el      | -3357 Oct 20 j 02:15 | 18°♐30'00 | 47°30'26   |
|                     | -3359 Apr 16 j 02:59 | 0°♈       |            |                     | -3357 Oct 31 j 20:07 | 0°♑       |            |
|                     | -3359 May 11 j 00:59 | 0°♉       |            | greatest brilliancy | -3357 Nov 29 j 15:44 | 20°♑26'48 | -4.9m      |
|                     | -3359 Jun 04 j 16:03 | 0°♊       |            | asc. node           | -3357 Dec 03 j 15:42 | 21°♑44'38 |            |
| asc. node           | -3359 Jun 17 j 21:50 | 16°♊16'32 |            | retrograde          | -3357 Dec 10 j 05:54 | 22°♑36'29 |            |
| morning set         | -3359 Jun 24 j 07:53 | 24°♊12'06 |            | evening set         | -3357 Dec 25 j 20:52 | 17°♑42'04 |            |
|                     | -3359 Jun 29 j 00:20 | 0°♋       |            | min. Earth dist.    | -3357 Dec 30 j 02:27 | 15°♑06'42 | 0.27625 AU |
|                     | -3359 Jul 23 j 02:47 | 0°♌       |            | inferior conj       | -3357 Dec 31 j 04:36 | 14°♑25'15 | 6°07'37    |
| max. Earth dist.    | -3359 Jul 27 j 02:10 | 4°♌58'12  | 1.71858 AU | minimum elong       | -3357 Dec 30 j 19:10 | 14°♑40'13 | 6°05'31    |
|                     |                      |           |            | morning rise        | -3356 Jan 04 j 18:08 | 11°♑36'18 |            |
| superior conj       | -3359 Jul 31 j 03:58 | 10°♌04'17 | 1°18'53    | direct              | -3356 Jan 20 j 21:03 | 6°♑29'11  |            |
| minimum elong       | -3359 Jul 30 j 21:54 | 9°♌45'16  | 1°18'54    | greatest brilliancy | -3356 Jan 29 j 16:19 | 7°♑55'56  | -4.8m      |
|                     | -3359 Aug 16 j 01:15 | 0°♍       |            |                     | -3356 Mar 02 j 12:18 | 0°♒       |            |
| evening rise        | -3359 Sep 07 j 12:57 | 28°♍15'35 |            | morning max el      | -3356 Mar 09 j 20:48 | 6°♒51'31  | 46°00'14   |
|                     | -3359 Sep 08 j 22:10 | 0°♎       |            | desc. node          | -3356 Mar 24 j 11:24 | 21°♒29'38 |            |
|                     | -3359 Oct 02 j 19:45 | 0°♏       |            |                     | -3356 Apr 01 j 13:17 | 0°♓       |            |
| desc. node          | -3359 Oct 07 j 15:57 | 6°♏03'54  |            |                     | -3356 Apr 28 j 17:06 | 0°♈       |            |
|                     | -3359 Oct 26 j 19:33 | 0°♐       |            |                     | -3356 May 24 j 16:13 | 0°♉       |            |
|                     | -3359 Nov 19 j 22:55 | 0°♑       |            |                     | -3356 Jun 18 j 21:38 | 0°♊       |            |
|                     | -3359 Dec 14 j 08:14 | 0°♒       |            |                     | -3356 Jul 13 j 13:41 | 0°♋       |            |
|                     | -3358 Jan 08 j 04:28 | 0°♓       |            | asc. node           | -3356 Jul 15 j 09:41 | 2°♋15'13  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3356 Aug 06 j 19:14 | 0°☿       |            | greatest brilliancy | -3353 Feb 07 j 01:02 | 29°☿44'12 | -4.8m      |
|                     | -3356 Aug 30 j 17:34 | 0°♌       |            |                     | -3353 Feb 07 j 18:00 | 0°♋       |            |
| greatest brilliancy | -3356 Sep 03 j 05:30 | 4°♌24'15  | -3.9m      | retrograde          | -3353 Feb 17 j 22:26 | 1°♋55'44  |            |
| morning set         | -3356 Sep 03 j 00:33 | 4°♌08'41  |            |                     | -3353 Feb 27 j 15:29 | 30°♋      |            |
|                     | -3356 Sep 23 j 12:19 | 0°♍       |            | evening set         | -3353 Mar 07 j 09:10 | 26°☿01'17 |            |
|                     |                      |           |            | inferior conj       | -3353 Mar 11 j 07:38 | 23°☿33'07 | 7°33'52    |
| superior conj       | -3356 Oct 13 j 01:16 | 24°♍39'56 | 0°48'45    | minimum elong       | -3353 Mar 11 j 14:25 | 23°☿22'18 | 7°33'01    |
| minimum elong       | -3356 Oct 13 j 12:03 | 25°♍13'57 | 0°48'20    | min. Earth dist.    | -3353 Mar 11 j 10:27 | 23°☿28'37 | 0.29251 AU |
| max. Earth dist.    | -3356 Oct 15 j 05:52 | 27°♍25'50 | 1.70897 AU | morning rise        | -3353 Mar 15 j 19:50 | 20°☿44'36 |            |
|                     | -3356 Oct 17 j 06:47 | 0°♎       |            | direct              | -3353 Apr 01 j 22:43 | 15°☿08'43 |            |
| desc. node          | -3356 Nov 04 j 04:13 | 22°♎31'22 |            | greatest brilliancy | -3353 Apr 11 j 18:49 | 16°☿54'17 | -4.7m      |
|                     | -3356 Nov 10 j 03:05 | 0°♏       |            | desc. node          | -3353 Apr 21 j 22:51 | 21°☿44'21 |            |
| evening rise        | -3356 Nov 24 j 12:48 | 18°♏03'17 |            |                     | -3353 May 03 j 18:59 | 0°♋       |            |
|                     | -3356 Dec 04 j 02:11 | 0°♐       |            | morning max el      | -3353 May 20 j 19:56 | 14°♋58'57 | 45°49'19   |
|                     | -3356 Dec 28 j 04:47 | 0°♑       |            |                     | -3353 Jun 04 j 20:16 | 0°♐       |            |
|                     | -3355 Jan 21 j 12:17 | 0°☿       |            |                     | -3353 Jul 02 j 07:07 | 0°♑       |            |
|                     | -3355 Feb 15 j 03:26 | 0°♋       |            |                     | -3353 Jul 28 j 01:16 | 0°♒       |            |
| asc. node           | -3355 Feb 25 j 01:17 | 11°♋55'04 |            | asc. node           | -3353 Aug 12 j 21:41 | 19°♒04'38 |            |
|                     | -3355 Mar 12 j 06:22 | 0°♐       |            |                     | -3353 Aug 21 j 20:22 | 0°☿       |            |
|                     | -3355 Apr 07 j 03:51 | 0°♑       |            |                     | -3353 Sep 15 j 01:23 | 0°♌       |            |
|                     | -3355 May 04 j 10:33 | 0°♒       |            |                     | -3353 Oct 08 j 23:02 | 0°♍       |            |
| evening max el      | -3355 May 23 j 12:42 | 19°♒17'14 | 45°32'53   |                     | -3353 Nov 01 j 18:34 | 0°♎       |            |
|                     | -3355 Jun 04 j 08:20 | 0°☿       |            | morning set         | -3353 Nov 19 j 04:18 | 21°♎53'38 |            |
| desc. node          | -3355 Jun 16 j 19:58 | 9°☿39'27  |            |                     | -3353 Nov 25 j 15:18 | 0°♏       |            |
| greatest brilliancy | -3355 Jul 01 j 20:30 | 17°☿31'25 | -4.8m      | desc. node          | -3353 Dec 02 j 16:12 | 8°♏49'20  |            |
| retrograde          | -3355 Jul 11 j 12:30 | 19°☿12'48 |            |                     | -3353 Dec 19 j 14:40 | 0°♐       |            |
| evening set         | -3355 Jul 28 j 17:06 | 13°☿42'34 |            |                     |                      |           |            |
| inferior conj       | -3355 Aug 01 j 12:40 | 11°☿26'30 | -8°23'59   | superior conj       | -3353 Dec 31 j 06:13 | 14°♐31'09 | -0°59'58   |
| minimum elong       | -3355 Aug 01 j 06:07 | 11°☿36'24 | 8°23'14    | minimum elong       | -3353 Dec 30 j 19:00 | 13°♐56'12 | 0°59'41    |
| min. Earth dist.    | -3355 Aug 01 j 21:31 | 11°☿13'05 | 0.27600 AU | max. Earth dist.    | -3352 Jan 04 j 15:49 | 19°♐59'46 | 1.72104 AU |
| morning rise        | -3355 Aug 04 j 18:55 | 9°☿29'12  |            |                     | -3352 Jan 12 j 16:59 | 0°♑       |            |
| direct              | -3355 Aug 22 j 13:33 | 3°☿32'13  |            |                     | -3352 Feb 05 j 22:22 | 0°☿       |            |
| greatest brilliancy | -3355 Sep 02 j 13:23 | 5°☿46'56  | -4.9m      | evening rise        | -3352 Feb 09 j 02:53 | 3°☿56'08  |            |
|                     | -3355 Oct 05 j 11:21 | 0°♌       |            | greatest brilliancy | -3352 Feb 17 j 05:28 | 13°☿55'45 | -3.9m      |
| asc. node           | -3355 Oct 07 j 18:44 | 2°♌15'16  |            |                     | -3352 Mar 01 j 07:20 | 0°♋       |            |
| morning max el      | -3355 Oct 12 j 07:15 | 6°♌47'49  | 46°51'18   | asc. node           | -3352 Mar 24 j 13:36 | 28°♋25'11 |            |
|                     | -3355 Nov 02 j 17:35 | 0°♍       |            |                     | -3352 Mar 25 j 20:47 | 0°♐       |            |
|                     | -3355 Nov 28 j 12:40 | 0°♎       |            |                     | -3352 Apr 19 j 15:51 | 0°♑       |            |
|                     | -3355 Dec 23 j 13:12 | 0°♏       |            |                     | -3352 May 14 j 18:16 | 0°♒       |            |
|                     | -3354 Jan 17 j 07:57 | 0°♐       |            |                     | -3352 Jun 09 j 07:36 | 0°☿       |            |
| desc. node          | -3354 Jan 27 j 14:06 | 12°♐26'50 |            |                     | -3352 Jul 05 j 16:25 | 0°♌       |            |
|                     | -3354 Feb 11 j 01:03 | 0°♑       |            | desc. node          | -3352 Jul 14 j 07:40 | 9°♌29'21  |            |
|                     | -3354 Mar 07 j 17:15 | 0°☿       |            |                     | -3352 Aug 02 j 21:57 | 0°♍       |            |
|                     | -3354 Apr 01 j 08:11 | 0°♋       |            | evening max el      | -3352 Aug 05 j 05:19 | 2°♍17'18  | 46°57'44   |
| morning set         | -3354 Apr 16 j 03:48 | 18°♋05'51 |            |                     | -3352 Sep 08 j 19:29 | 0°♎       |            |
|                     | -3354 Apr 25 j 21:10 | 0°♐       |            | greatest brilliancy | -3352 Sep 15 j 04:55 | 2°♎43'52  | -4.9m      |
| max. Earth dist.    | -3354 May 19 j 02:16 | 28°♐29'54 | 1.73466 AU | retrograde          | -3352 Sep 24 j 10:33 | 4°♎19'45  |            |
| asc. node           | -3354 May 20 j 11:51 | 0°♑13'15  |            |                     | -3352 Oct 09 j 06:12 | 30°♋      |            |
|                     | -3354 May 20 j 07:33 | 0°♑       |            | evening set         | -3352 Oct 09 j 23:00 | 29°♍36'49 |            |
|                     |                      |           |            | inferior conj       | -3352 Oct 14 j 23:08 | 26°♍38'38 | -4°57'39   |
| superior conj       | -3354 May 22 j 01:39 | 2°♑09'37  | 0°03'44    | minimum elong       | -3352 Oct 15 j 08:51 | 26°♍23'48 | 4°55'00    |
| minimum elong       | -3354 May 22 j 00:54 | 2°♑07'18  | 0°03'46    | min. Earth dist.    | -3352 Oct 15 j 02:02 | 26°♍34'12 | 0.26385 AU |
| behind sun begin    | -3354 May 21 j 03:19 | 1°♑00'50  |            | morning rise        | -3352 Oct 20 j 18:45 | 23°♍14'35 |            |
| behind sun end      | -3354 May 22 j 22:29 | 3°♑13'46  |            | direct              | -3352 Nov 04 j 06:17 | 19°♍04'23 |            |
|                     | -3354 Jun 13 j 14:56 | 0°♒       |            | asc. node           | -3352 Nov 04 j 06:12 | 19°♍04'23 |            |
| evening rise        | -3354 Jun 26 j 17:09 | 16°♒13'06 |            | greatest brilliancy | -3352 Nov 14 j 11:53 | 21°♍04'40 | -4.9m      |
|                     | -3354 Jul 07 j 19:43 | 0°☿       |            |                     | -3352 Nov 29 j 22:57 | 0°♎       |            |
|                     | -3354 Jul 31 j 23:12 | 0°♌       |            | morning max el      | -3352 Dec 24 j 15:26 | 22°♎04'56 | 46°39'06   |
|                     | -3354 Aug 25 j 03:15 | 0°♍       |            |                     | -3351 Jan 01 j 08:27 | 0°♏       |            |
| desc. node          | -3354 Sep 09 j 05:48 | 18°♍41'24 |            |                     | -3351 Jan 28 j 18:02 | 0°♐       |            |
|                     | -3354 Sep 18 j 09:51 | 0°♎       |            |                     | -3351 Feb 23 j 20:46 | 0°♑       |            |
|                     | -3354 Oct 12 j 21:15 | 0°♏       |            | desc. node          | -3351 Feb 24 j 01:57 | 0°♑15'05  |            |
|                     | -3354 Nov 06 j 19:30 | 0°♐       |            |                     | -3351 Mar 21 j 09:53 | 0°☿       |            |
|                     | -3354 Dec 02 j 09:37 | 0°♑       |            |                     | -3351 Apr 15 j 14:29 | 0°♋       |            |
| evening max el      | -3354 Dec 30 j 01:45 | 29°♑54'21 | 46°19'44   |                     | -3351 May 10 j 12:04 | 0°♐       |            |
|                     | -3354 Dec 30 j 04:00 | 0°☿       |            |                     | -3351 Jun 04 j 02:53 | 0°♑       |            |
| asc. node           | -3354 Dec 31 j 03:24 | 0°☿58'26  |            | asc. node           | -3351 Jun 16 j 23:51 | 15°♑49'27 |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| morning set         | -3351 Jun 22 j 01:37 | 22°♄05'12 |            | greatest brilliancy | -3349 Nov 27 j 07:33 | 18°♄05'49 | -4.9m      |
|                     | -3351 Jun 28 j 11:07 | 0°♄       |            | asc. node           | -3349 Dec 02 j 17:46 | 19°♄43'18 |            |
|                     | -3351 Jul 22 j 13:36 | 0°♄       |            | retrograde          | -3349 Dec 07 j 21:00 | 20°♄15'13 |            |
| max. Earth dist.    | -3351 Jul 24 j 15:02 | 2°♄34'32  | 1.71922 AU | evening set         | -3349 Dec 23 j 08:51 | 15°♄24'55 |            |
|                     |                      |           |            | min. Earth dist.    | -3349 Dec 27 j 17:05 | 12°♄46'15 | 0.27549 AU |
| superior conj       | -3351 Jul 28 j 20:05 | 7°♄50'35  | 1°17'39    | inferior conj       | -3349 Dec 28 j 19:14 | 12°♄04'56 | 5°52'43    |
| minimum elong       | -3351 Jul 28 j 13:31 | 7°♄30'01  | 1°17'39    | minimum elong       | -3349 Dec 28 j 09:47 | 12°♄19'52 | 5°50'30    |
|                     | -3351 Aug 15 j 12:10 | 0°♄       |            | morning rise        | -3348 Jan 02 j 11:23 | 9°♄12'32  |            |
| evening rise        | -3351 Sep 05 j 01:00 | 25°♄48'03 |            | direct              | -3348 Jan 18 j 10:24 | 4°♄09'49  |            |
|                     | -3351 Sep 08 j 09:13 | 0°♄       |            | greatest brilliancy | -3348 Jan 27 j 06:48 | 5°♄37'40  | -4.8m      |
|                     | -3351 Oct 02 j 06:57 | 0°♄       |            |                     | -3348 Mar 02 j 14:13 | 0°♄       |            |
| desc. node          | -3351 Oct 06 j 18:05 | 5°♄35'23  |            | morning max el      | -3348 Mar 07 j 11:50 | 4°♄37'18  | 46°01'21   |
|                     | -3351 Oct 26 j 06:57 | 0°♄       |            | desc. node          | -3348 Mar 23 j 13:32 | 20°♄47'39 |            |
|                     | -3351 Nov 19 j 10:36 | 0°♄       |            |                     | -3348 Apr 01 j 05:58 | 0°♄       |            |
|                     | -3351 Dec 13 j 20:19 | 0°♄       |            |                     | -3348 Apr 28 j 06:49 | 0°♄       |            |
|                     | -3350 Jan 07 j 17:19 | 0°♄       |            |                     | -3348 May 24 j 04:33 | 0°♄       |            |
| asc. node           | -3350 Jan 27 j 15:20 | 23°♄18'39 |            |                     | -3348 Jun 18 j 09:15 | 0°♄       |            |
|                     | -3350 Feb 02 j 12:08 | 0°♄       |            |                     | -3348 Jul 13 j 00:54 | 0°♄       |            |
|                     | -3350 Mar 02 j 06:01 | 0°♄       |            | asc. node           | -3348 Jul 14 j 11:57 | 1°♄47'42  |            |
| evening max el      | -3350 Mar 10 j 22:07 | 8°♄34'24  | 45°13'19   |                     | -3348 Aug 06 j 06:17 | 0°♄       |            |
|                     | -3350 Apr 05 j 23:32 | 0°♄       |            |                     | -3348 Aug 30 j 04:34 | 0°♄       |            |
| greatest brilliancy | -3350 Apr 17 j 12:36 | 5°♄53'32  | -4.7m      | morning set         | -3348 Aug 31 j 13:54 | 1°♄44'53  |            |
| retrograde          | -3350 Apr 28 j 03:39 | 7°♄54'44  |            |                     | -3348 Sep 22 j 23:21 | 0°♄       |            |
| evening set         | -3350 May 13 j 04:10 | 3°♄38'10  |            |                     |                      |           |            |
| desc. node          | -3350 May 19 j 10:20 | 29°♄56'43 |            | superior conj       | -3348 Oct 10 j 11:03 | 22°♄04'23 | 0°51'55    |
|                     | -3350 May 19 j 08:13 | 30°♄      |            | minimum elong       | -3348 Oct 10 j 22:07 | 22°♄39'17 | 0°51'31    |
| inferior conj       | -3350 May 19 j 14:17 | 29°♄50'35 | -0°02'18   | max. Earth dist.    | -3348 Oct 12 j 12:04 | 24°♄39'01 | 1.70894 AU |
| minimum elong       | -3350 May 19 j 14:12 | 29°♄50'43 | 0°02'12    |                     | -3348 Oct 16 j 17:54 | 0°♄       |            |
| transit middle      | -3350 May 19 j 14:12 | 29°♄50'43 | 0°02'12    | desc. node          | -3348 Nov 03 j 06:13 | 22°♄02'36 |            |
| transit begin       | -3350 May 19 j 10:10 | 29°♄56'59 |            |                     | -3348 Nov 09 j 14:15 | 0°♄       |            |
| transit end         | -3350 May 19 j 18:15 | 29°♄44'26 |            | evening rise        | -3348 Nov 21 j 21:45 | 15°♄26'09 |            |
| min. Earth dist.    | -3350 May 20 j 04:18 | 29°♄28'49 | 0.28801 AU |                     | -3348 Dec 03 j 13:23 | 0°♄       |            |
| morning rise        | -3350 May 25 j 23:31 | 26°♄01'48 |            |                     | -3348 Dec 27 j 16:01 | 0°♄       |            |
| direct              | -3350 Jun 10 j 07:30 | 21°♄32'55 |            |                     | -3347 Jan 20 j 23:42 | 0°♄       |            |
| greatest brilliancy | -3350 Jun 21 j 08:43 | 23°♄43'14 | -4.8m      |                     | -3347 Feb 14 j 15:13 | 0°♄       |            |
|                     | -3350 Jul 03 j 06:42 | 0°♄       |            | asc. node           | -3347 Feb 24 j 03:29 | 11°♄25'42 |            |
| morning max el      | -3350 Jul 29 j 19:29 | 22°♄21'18 | 46°17'24   |                     | -3347 Mar 11 j 18:57 | 0°♄       |            |
|                     | -3350 Aug 06 j 09:45 | 0°♄       |            |                     | -3347 Apr 06 j 18:01 | 0°♄       |            |
|                     | -3350 Sep 02 j 17:52 | 0°♄       |            |                     | -3347 May 04 j 04:23 | 0°♄       |            |
| asc. node           | -3350 Sep 09 j 09:24 | 7°♄42'42  |            | evening max el      | -3347 May 21 j 04:01 | 17°♄03'52 | 45°30'50   |
|                     | -3350 Sep 28 j 02:49 | 0°♄       |            |                     | -3347 Jun 04 j 15:55 | 0°♄       |            |
|                     | -3350 Oct 22 j 14:59 | 0°♄       |            | desc. node          | -3347 Jun 15 j 22:07 | 8°♄22'13  |            |
|                     | -3350 Nov 15 j 18:50 | 0°♄       |            | greatest brilliancy | -3347 Jun 29 j 07:42 | 15°♄10'26 | -4.8m      |
|                     | -3350 Dec 09 j 21:13 | 0°♄       |            | retrograde          | -3347 Jul 09 j 02:12 | 16°♄53'22 |            |
| desc. node          | -3350 Dec 30 j 04:18 | 25°♄12'02 |            | evening set         | -3347 Jul 26 j 02:53 | 11°♄28'16 |            |
|                     | -3349 Jan 03 j 01:13 | 0°♄       |            | inferior conj       | -3347 Jul 30 j 02:16 | 9°♄06'27  | -8°15'57   |
|                     | -3349 Jan 27 j 07:27 | 0°♄       |            | minimum elong       | -3347 Jul 29 j 19:03 | 9°♄17'23  | 8°15'03    |
| morning set         | -3349 Feb 03 j 10:11 | 8°♄46'49  |            | min. Earth dist.    | -3347 Jul 30 j 10:25 | 8°♄54'07  | 0.27647 AU |
|                     | -3349 Feb 20 j 15:30 | 0°♄       |            | morning rise        | -3347 Aug 02 j 11:02 | 7°♄05'27  |            |
|                     |                      |           |            | direct              | -3347 Aug 20 j 04:36 | 1°♄11'34  |            |
| superior conj       | -3349 Mar 13 j 14:24 | 25°♄46'36 | -1°14'52   | greatest brilliancy | -3347 Aug 31 j 03:10 | 3°♄25'18  | -4.9m      |
| minimum elong       | -3349 Mar 13 j 21:47 | 26°♄09'18 | 1°14'47    |                     | -3347 Oct 05 j 12:10 | 0°♄       |            |
| max. Earth dist.    | -3349 Mar 14 j 12:37 | 26°♄54'52 | 1.73513 AU | asc. node           | -3347 Oct 06 j 20:50 | 1°♄21'06  |            |
|                     | -3349 Mar 17 j 00:54 | 0°♄       |            | morning max el      | -3347 Oct 09 j 21:53 | 4°♄25'31  | 46°50'36   |
|                     | -3349 Apr 10 j 11:20 | 0°♄       |            |                     | -3347 Nov 02 j 10:37 | 0°♄       |            |
| evening rise        | -3349 Apr 19 j 06:23 | 10°♄47'01 |            |                     | -3347 Nov 28 j 03:05 | 0°♄       |            |
| asc. node           | -3349 Apr 22 j 01:45 | 14°♄13'31 |            |                     | -3347 Dec 23 j 02:17 | 0°♄       |            |
|                     | -3349 May 04 j 22:37 | 0°♄       |            |                     | -3346 Jan 16 j 20:13 | 0°♄       |            |
|                     | -3349 May 29 j 10:44 | 0°♄       |            | desc. node          | -3346 Jan 26 j 16:18 | 11°♄57'01 |            |
|                     | -3349 Jun 23 j 00:16 | 0°♄       |            |                     | -3346 Feb 10 j 12:44 | 0°♄       |            |
|                     | -3349 Jul 17 j 16:51 | 0°♄       |            |                     | -3346 Mar 07 j 04:31 | 0°♄       |            |
| desc. node          | -3349 Aug 11 j 19:43 | 0°♄12'37  |            |                     | -3346 Mar 31 j 19:10 | 0°♄       |            |
|                     | -3349 Aug 11 j 15:29 | 0°♄       |            | morning set         | -3346 Apr 13 j 22:24 | 16°♄02'45 |            |
|                     | -3349 Sep 06 j 01:39 | 0°♄       |            |                     | -3346 Apr 25 j 08:00 | 0°♄       |            |
|                     | -3349 Oct 02 j 12:27 | 0°♄       |            | max. Earth dist.    | -3346 May 17 j 00:07 | 26°♄36'15 | 1.73495 AU |
| evening max el      | -3349 Oct 17 j 16:36 | 16°♄06'57 | 47°31'31   |                     |                      |           |            |
|                     | -3349 Nov 01 j 01:05 | 0°♄       |            | superior conj       | -3346 May 19 j 20:34 | 0°♄06'51  | 0°00'40    |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 12

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                   |            |                     |                      |                                   |            |
|---------------------|----------------------|-----------------------------------|------------|---------------------|----------------------|-----------------------------------|------------|
| minimum elong       | -3346 May 19 j 20:26 | 0° $\text{8}^{\circ}06'27''$      | 0°00'42    | min. Earth dist.    | -3344 Oct 12 j 15:40 | 24° $\text{11}^{\circ}02'15''$    | 0.26398 AU |
| behind sun begin    | -3346 May 18 j 22:27 | 28° $\text{19}^{\circ}58'45''$    |            | morning rise        | -3344 Oct 18 j 04:27 | 20° $\text{11}^{\circ}47'55''$    |            |
| behind sun end      | -3346 May 20 j 18:26 | 1° $\text{8}^{\circ}14'10''$      |            | direct              | -3344 Nov 01 j 18:08 | 16° $\text{11}^{\circ}34'30''$    |            |
| asc. node           | -3346 May 19 j 13:53 | 29° $\text{19}^{\circ}46'16''$    |            | asc. node           | -3344 Nov 03 j 08:12 | 16° $\text{11}^{\circ}37'33''$    |            |
|                     | -3346 May 19 j 18:21 | 0° $\text{8}^{\circ}$             |            | greatest brilliancy | -3344 Nov 12 j 01:57 | 18° $\text{11}^{\circ}36'20''$    | -4.9m      |
|                     | -3346 Jun 13 j 01:48 | 0° $\text{11}^{\circ}$            |            |                     | -3344 Nov 30 j 17:16 | 0° $\text{11}^{\circ}$            |            |
| evening rise        | -3346 Jun 24 j 11:51 | 14° $\text{11}^{\circ}08'21''$    |            | morning max el      | -3344 Dec 22 j 03:39 | 19° $\text{11}^{\circ}36'19''$    | 46°40'16   |
|                     | -3346 Jul 07 j 06:45 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Jan 01 j 04:47 | 0° $\text{11}^{\circ}$            |            |
|                     | -3346 Jul 31 j 10:29 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Jan 28 j 09:41 | 0° $\text{11}^{\circ}$            |            |
|                     | -3346 Aug 24 j 14:54 | 0° $\text{11}^{\circ}$            |            | desc. node          | -3343 Feb 23 j 04:02 | 29° $\text{11}^{\circ}41'31''$    |            |
| desc. node          | -3346 Sep 08 j 07:55 | 18° $\text{11}^{\circ}11'13''$    |            |                     | -3343 Feb 23 j 10:22 | 0° $\text{11}^{\circ}$            |            |
|                     | -3346 Sep 17 j 21:58 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Mar 20 j 22:22 | 0° $\text{11}^{\circ}$            |            |
|                     | -3346 Oct 12 j 10:00 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Apr 15 j 02:17 | 0° $\text{11}^{\circ}$            |            |
|                     | -3346 Nov 06 j 07:25 | 0° $\text{11}^{\circ}$            |            |                     | -3343 May 09 j 23:25 | 0° $\text{11}^{\circ}$            |            |
|                     | -3346 Dec 02 j 01:26 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Jun 03 j 14:00 | 0° $\text{11}^{\circ}$            |            |
| evening max el      | -3346 Dec 27 j 18:05 | 27° $\text{11}^{\circ}34'04''$    | 46°22'43   | asc. node           | -3343 Jun 16 j 02:04 | 15° $\text{11}^{\circ}22'11''$    |            |
| asc. node           | -3346 Dec 30 j 05:38 | 0° $\text{11}^{\circ}08'57''$     |            | morning set         | -3343 Jun 19 j 19:21 | 19° $\text{11}^{\circ}57'36''$    |            |
|                     | -3346 Dec 30 j 02:00 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Jun 27 j 22:08 | 0° $\text{11}^{\circ}$            |            |
| greatest brilliancy | -3345 Feb 04 j 18:19 | 27° $\text{11}^{\circ}35'15''$    | -4.8m      |                     | -3343 Jul 22 j 00:39 | 0° $\text{11}^{\circ}$            |            |
| retrograde          | -3345 Feb 15 j 15:32 | 29° $\text{11}^{\circ}46'27''$    |            | max. Earth dist.    | -3343 Jul 22 j 06:59 | 0° $\text{11}^{\circ}19'47''$     | 1.71987 AU |
| evening set         | -3345 Mar 05 j 04:01 | 23° $\text{11}^{\circ}49'17''$    |            |                     |                      |                                   |            |
| inferior conj       | -3345 Mar 09 j 00:31 | 21° $\text{11}^{\circ}23'44''$    | 7°41'36    | superior conj       | -3343 Jul 26 j 12:19 | 5° $\text{11}^{\circ}36'34''$     | 1°16'19    |
| minimum elong       | -3345 Mar 09 j 06:49 | 21° $\text{11}^{\circ}13'40''$    | 7°40'52    | minimum elong       | -3343 Jul 26 j 05:17 | 5° $\text{11}^{\circ}14'34''$     | 1°16'17    |
| min. Earth dist.    | -3345 Mar 09 j 02:02 | 21° $\text{11}^{\circ}21'19''$    | 0.29228 AU |                     | -3343 Aug 14 j 23:21 | 0° $\text{11}^{\circ}$            |            |
| morning rise        | -3345 Mar 13 j 09:50 | 18° $\text{11}^{\circ}39'17''$    |            | evening rise        | -3343 Sep 02 j 13:27 | 23° $\text{11}^{\circ}20'57''$    |            |
| direct              | -3345 Mar 30 j 15:30 | 13° $\text{11}^{\circ}00'01''$    |            |                     | -3343 Sep 07 j 20:33 | 0° $\text{11}^{\circ}$            |            |
| greatest brilliancy | -3345 Apr 09 j 09:09 | 14° $\text{11}^{\circ}43'31''$    | -4.7m      |                     | -3343 Oct 01 j 18:27 | 0° $\text{11}^{\circ}$            |            |
| desc. node          | -3345 Apr 21 j 00:51 | 20° $\text{11}^{\circ}26'48''$    |            | desc. node          | -3343 Oct 05 j 20:04 | 5° $\text{11}^{\circ}05'31''$     |            |
|                     | -3345 May 04 j 03:18 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Oct 25 j 18:39 | 0° $\text{11}^{\circ}$            |            |
| morning max el      | -3345 May 18 j 11:53 | 12° $\text{11}^{\circ}49'12''$    | 45°48'52   |                     | -3343 Nov 18 j 22:33 | 0° $\text{11}^{\circ}$            |            |
|                     | -3345 Jun 04 j 14:06 | 0° $\text{11}^{\circ}$            |            |                     | -3343 Dec 13 j 08:41 | 0° $\text{11}^{\circ}$            |            |
|                     | -3345 Jul 01 j 21:23 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Jan 07 j 06:28 | 0° $\text{11}^{\circ}$            |            |
|                     | -3345 Jul 27 j 14:02 | 0° $\text{11}^{\circ}$            |            | asc. node           | -3342 Jan 26 j 17:26 | 22° $\text{11}^{\circ}43'31''$    |            |
| asc. node           | -3345 Aug 11 j 23:46 | 18° $\text{11}^{\circ}33'41''$    |            |                     | -3342 Feb 02 j 03:03 | 0° $\text{11}^{\circ}$            |            |
|                     | -3345 Aug 21 j 08:23 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Mar 02 j 01:47 | 0° $\text{11}^{\circ}$            |            |
|                     | -3345 Sep 14 j 13:01 | 0° $\text{11}^{\circ}$            |            | evening max el      | -3342 Mar 08 j 12:57 | 6° $\text{11}^{\circ}21'08''$     | 45°14'21   |
|                     | -3345 Oct 08 j 10:29 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Apr 07 j 05:27 | 0° $\text{11}^{\circ}$            |            |
|                     | -3345 Nov 01 j 05:54 | 0° $\text{11}^{\circ}$            |            | greatest brilliancy | -3342 Apr 15 j 04:03 | 3° $\text{11}^{\circ}43'47''$     | -4.7m      |
| morning set         | -3345 Nov 16 j 14:15 | 19° $\text{11}^{\circ}18'49''$    |            | retrograde          | -3342 Apr 25 j 19:47 | 5° $\text{11}^{\circ}46'03''$     |            |
|                     | -3345 Nov 25 j 02:32 | 0° $\text{11}^{\circ}$            |            | evening set         | -3342 May 10 j 21:07 | 1° $\text{11}^{\circ}27'31''$     |            |
| desc. node          | -3345 Dec 01 j 18:20 | 8° $\text{11}^{\circ}20'52''$     |            |                     | -3342 May 13 j 11:08 | 30° $\text{11}^{\circ}49'00''$    |            |
|                     | -3345 Dec 19 j 01:51 | 0° $\text{11}^{\circ}$            |            | inferior conj       | -3342 May 17 j 06:30 | 27° $\text{11}^{\circ}40'59''$    | 0°17'24    |
|                     |                      |                                   |            | minimum elong       | -3342 May 17 j 07:08 | 27° $\text{11}^{\circ}39'59''$    | 0°17'16    |
| superior conj       | -3345 Dec 28 j 17:11 | 12° $\text{11}^{\circ}40'01'08''$ | -0°57'14   | min. Earth dist.    | -3342 May 17 j 20:55 | 27° $\text{11}^{\circ}18'37''$    | 0.28837 AU |
| minimum elong       | -3345 Dec 28 j 05:57 | 11° $\text{11}^{\circ}42'6'07''$  | 0°56'57    | desc. node          | -3342 May 18 j 12:30 | 26° $\text{11}^{\circ}45'30''$    |            |
| max. Earth dist.    | -3344 Jan 02 j 06:34 | 17° $\text{11}^{\circ}41'35''$    | 1.72048 AU | morning rise        | -3342 May 23 j 16:27 | 23° $\text{11}^{\circ}45'11'17''$ |            |
|                     | -3344 Jan 12 j 04:07 | 0° $\text{11}^{\circ}$            |            | direct              | -3342 Jun 07 j 23:40 | 19° $\text{11}^{\circ}42'22'29''$ |            |
|                     | -3344 Feb 05 j 09:29 | 0° $\text{11}^{\circ}$            |            | greatest brilliancy | -3342 Jun 19 j 01:33 | 21° $\text{11}^{\circ}43'33'30''$ | -4.7m      |
| evening rise        | -3344 Feb 06 j 17:04 | 1° $\text{11}^{\circ}37'30''$     |            |                     | -3342 Jul 04 j 03:25 | 0° $\text{11}^{\circ}$            |            |
| greatest brilliancy | -3344 Feb 16 j 15:34 | 13° $\text{11}^{\circ}45'23'38''$ | -3.9m      | morning max el      | -3342 Jul 27 j 11:20 | 20° $\text{11}^{\circ}48'07'45''$ | 46°16'04   |
|                     | -3344 Feb 29 j 18:30 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Aug 06 j 05:24 | 0° $\text{11}^{\circ}$            |            |
| asc. node           | -3344 Mar 23 j 15:36 | 27° $\text{11}^{\circ}45'56'49''$ |            |                     | -3342 Sep 02 j 09:05 | 0° $\text{11}^{\circ}$            |            |
|                     | -3344 Mar 25 j 08:08 | 0° $\text{11}^{\circ}$            |            | asc. node           | -3342 Sep 08 j 11:28 | 7° $\text{11}^{\circ}40'55'58''$  |            |
|                     | -3344 Apr 19 j 03:39 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Sep 27 j 16:18 | 0° $\text{11}^{\circ}$            |            |
|                     | -3344 May 14 j 06:52 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Oct 22 j 03:36 | 0° $\text{11}^{\circ}$            |            |
|                     | -3344 Jun 08 j 21:36 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Nov 15 j 06:57 | 0° $\text{11}^{\circ}$            |            |
|                     | -3344 Jul 05 j 09:07 | 0° $\text{11}^{\circ}$            |            |                     | -3342 Dec 09 j 09:00 | 0° $\text{11}^{\circ}$            |            |
| desc. node          | -3344 Jul 13 j 09:52 | 8° $\text{11}^{\circ}46'27''$     |            | desc. node          | -3342 Dec 29 j 06:29 | 24° $\text{11}^{\circ}43'02''$    |            |
| evening max el      | -3344 Aug 02 j 17:57 | 29° $\text{11}^{\circ}45'11'09''$ | 46°54'48   |                     | -3341 Jan 02 j 12:43 | 0° $\text{11}^{\circ}$            |            |
|                     | -3344 Aug 02 j 21:33 | 0° $\text{11}^{\circ}$            |            |                     | -3341 Jan 26 j 18:43 | 0° $\text{11}^{\circ}$            |            |
|                     | -3344 Sep 12 j 00:40 | 0° $\text{11}^{\circ}$            |            | morning set         | -3341 Jan 31 j 23:56 | 6° $\text{11}^{\circ}32'6'32''$   |            |
| greatest brilliancy | -3344 Sep 12 j 18:32 | 0° $\text{11}^{\circ}15'17''$     | -4.9m      |                     | -3341 Feb 20 j 02:35 | 0° $\text{11}^{\circ}$            |            |
| retrograde          | -3344 Sep 21 j 21:52 | 1° $\text{11}^{\circ}49'18''$     |            |                     |                      |                                   |            |
|                     | -3344 Oct 01 j 09:50 | 30° $\text{11}^{\circ}49'00''$    |            | superior conj       | -3341 Mar 11 j 07:34 | 23° $\text{11}^{\circ}38'03''$    | -1°16'16   |
| evening set         | -3344 Oct 07 j 14:12 | 27° $\text{11}^{\circ}40'23'38''$ |            | minimum elong       | -3341 Mar 11 j 14:33 | 23° $\text{11}^{\circ}35'9'32''$  | 1°16'12    |
| inferior conj       | -3344 Oct 12 j 11:16 | 24° $\text{11}^{\circ}40'58'58''$ | -5°17'53   | max. Earth dist.    | -3341 Mar 12 j 07:39 | 24° $\text{11}^{\circ}32'02''$    | 1.73487 AU |
| minimum elong       | -3344 Oct 12 j 21:22 | 23° $\text{11}^{\circ}40'53'34''$ | 5°15'13    |                     | -3341 Mar 16 j 11:53 | 0° $\text{11}^{\circ}$            |            |

|                     |                      |                          |            |                     |                      |                          |            |  |
|---------------------|----------------------|--------------------------|------------|---------------------|----------------------|--------------------------|------------|--|
|                     | -3341 Apr 09 j 22:21 | 0° $\Upsilon$            |            |                     | -3339 Oct 05 j 12:07 | 0° $\Omega$              |            |  |
| evening rise        | -3341 Apr 17 j 01:15 | 8° $\Upsilon$ 43'54      |            | morning max el      | -3339 Oct 07 j 11:25 | 1° $\Omega$ 59'50        | 46°49'55   |  |
| asc. node           | -3341 Apr 21 j 03:50 | 13° $\Upsilon$ 45'59     |            |                     | -3339 Nov 02 j 03:31 | 0° $\mathfrak{M}$        |            |  |
|                     | -3341 May 04 j 09:47 | 0° $\mathcal{C}$         |            |                     | -3339 Nov 27 j 17:29 | 0° $\Omega$              |            |  |
|                     | -3341 May 28 j 22:10 | 0° $\Pi$                 |            |                     | -3339 Dec 22 j 15:26 | 0° $\mathfrak{M}$        |            |  |
|                     | -3341 Jun 22 j 12:09 | 0° $\mathfrak{C}$        |            |                     | -3338 Jan 16 j 08:34 | 0° $\mathcal{C}$         |            |  |
|                     | -3341 Jul 17 j 05:24 | 0° $\Omega$              |            | desc. node          | -3338 Jan 25 j 18:18 | 11° $\mathcal{C}$ 26'13  |            |  |
| desc. node          | -3341 Aug 10 j 21:46 | 29° $\Omega$ 38'15       |            |                     | -3338 Feb 10 j 00:32 | 0° $\mathfrak{C}$        |            |  |
|                     | -3341 Aug 11 j 05:04 | 0° $\mathfrak{M}$        |            |                     | -3338 Mar 06 j 15:55 | 0° $\approx$             |            |  |
|                     | -3341 Sep 05 j 16:59 | 0° $\Omega$              |            |                     | -3338 Mar 31 j 06:17 | 0° $\mathcal{C}$         |            |  |
|                     | -3341 Oct 02 j 07:24 | 0° $\mathfrak{M}$        |            | morning set         | -3338 Apr 11 j 17:03 | 13° $\mathcal{C}$ 59'22  |            |  |
| evening max el      | -3341 Oct 15 j 07:48 | 13° $\mathfrak{M}$ 45'09 | 47°32'22   |                     | -3338 Apr 24 j 18:57 | 0° $\Upsilon$            |            |  |
|                     | -3341 Nov 01 j 08:40 | 0° $\mathcal{C}$         |            | max. Earth dist.    | -3338 May 14 j 21:10 | 24° $\Upsilon$ 39'53     | 1.73523 AU |  |
| greatest brilliancy | -3341 Nov 24 j 22:43 | 15° $\mathcal{C}$ 42'33  | -4.9m      |                     |                      |                          |            |  |
| asc. node           | -3341 Dec 01 j 20:04 | 17° $\mathcal{C}$ 35'39  |            | superior conj       | -3338 May 17 j 15:40 | 28° $\Upsilon$ 04'22     | -0°02'26   |  |
| retrograde          | -3341 Dec 05 j 12:17 | 17° $\mathcal{C}$ 52'13  |            | minimum elong       | -3338 May 17 j 16:06 | 28° $\Upsilon$ 05'44     | 0°02'20    |  |
| evening set         | -3341 Dec 20 j 20:43 | 13° $\mathcal{C}$ 05'53  |            | behind sun begin    | -3338 May 16 j 18:13 | 26° $\Upsilon$ 58'26     |            |  |
| min. Earth dist.    | -3341 Dec 25 j 07:17 | 10° $\mathcal{C}$ 24'17  | 0.27472 AU | behind sun end      | -3338 May 18 j 13:59 | 29° $\Upsilon$ 13'03     |            |  |
| inferior conj       | -3341 Dec 26 j 09:37 | 9° $\mathcal{C}$ 42'49   | 5°36'52    | asc. node           | -3338 May 18 j 16:07 | 29° $\Upsilon$ 19'38     |            |  |
| minimum elong       | -3341 Dec 26 j 00:14 | 9° $\mathcal{C}$ 57'35   | 5°34'37    |                     | -3338 May 19 j 05:14 | 0° $\mathcal{C}$         |            |  |
| morning rise        | -3341 Dec 31 j 04:27 | 6° $\mathcal{C}$ 47'04   |            |                     | -3338 Jun 12 j 12:46 | 0° $\Pi$                 |            |  |
| direct              | -3340 Jan 16 j 00:09 | 1° $\mathcal{C}$ 48'50   |            | evening rise        | -3338 Jun 22 j 06:40 | 12° $\Pi$ 03'40          |            |  |
| greatest brilliancy | -3340 Jan 24 j 20:38 | 3° $\mathcal{C}$ 17'19   | -4.8m      |                     | -3338 Jul 06 j 17:55 | 0° $\mathfrak{C}$        |            |  |
|                     | -3340 Mar 02 j 15:09 | 0° $\mathfrak{C}$        |            |                     | -3338 Jul 30 j 21:57 | 0° $\Omega$              |            |  |
| morning max el      | -3340 Mar 05 j 03:15 | 2° $\mathfrak{C}$ 23'12  | 46°02'33   |                     | -3338 Aug 24 j 02:44 | 0° $\mathfrak{M}$        |            |  |
| desc. node          | -3340 Mar 22 j 15:34 | 20° $\mathfrak{C}$ 05'12 |            | desc. node          | -3338 Sep 07 j 09:55 | 17° $\mathfrak{M}$ 40'06 |            |  |
|                     | -3340 Mar 31 j 22:36 | 0° $\approx$             |            |                     | -3338 Sep 17 j 10:17 | 0° $\Omega$              |            |  |
|                     | -3340 Apr 27 j 20:40 | 0° $\mathcal{C}$         |            |                     | -3338 Oct 11 j 22:57 | 0° $\mathfrak{M}$        |            |  |
|                     | -3340 May 23 j 17:06 | 0° $\Upsilon$            |            |                     | -3338 Nov 05 j 21:27 | 0° $\mathcal{C}$         |            |  |
|                     | -3340 Jun 17 j 21:07 | 0° $\mathcal{C}$         |            |                     | -3338 Dec 01 j 17:42 | 0° $\mathfrak{C}$        |            |  |
|                     | -3340 Jul 12 j 12:24 | 0° $\Pi$                 |            | evening max el      | -3338 Dec 25 j 09:22 | 25° $\mathfrak{C}$ 23'59 | 46°25'42   |  |
| asc. node           | -3340 Jul 13 j 14:02 | 1° $\Pi$ 18'50           |            | asc. node           | -3338 Dec 29 j 07:43 | 29° $\mathfrak{C}$ 18'00 |            |  |
|                     | -3340 Aug 05 j 17:36 | 0° $\mathfrak{C}$        |            |                     | -3338 Dec 30 j 00:59 | 0° $\approx$             |            |  |
| morning set         | -3340 Aug 29 j 03:21 | 29° $\mathfrak{C}$ 20'49 |            | greatest brilliancy | -3337 Feb 02 j 12:00 | 25° $\approx$ 26'15      | -4.8m      |  |
|                     | -3340 Aug 29 j 15:48 | 0° $\Omega$              |            | retrograde          | -3337 Feb 13 j 08:09 | 27° $\approx$ 36'43      |            |  |
|                     | -3340 Sep 22 j 10:37 | 0° $\mathfrak{M}$        |            | evening set         | -3337 Mar 02 j 22:40 | 21° $\approx$ 37'05      |            |  |
|                     |                      |                          |            | inferior conj       | -3337 Mar 06 j 17:22 | 19° $\approx$ 14'02      | 7°48'40    |  |
| superior conj       | -3340 Oct 07 j 21:01 | 19° $\mathfrak{M}$ 28'46 | 0°54'58    | minimum elong       | -3337 Mar 06 j 23:10 | 19° $\approx$ 04'46      | 7°48'03    |  |
| minimum elong       | -3340 Oct 08 j 08:14 | 20° $\mathfrak{M}$ 04'10 | 0°54'35    | min. Earth dist.    | -3337 Mar 06 j 17:54 | 19° $\approx$ 13'11      | 0.29204 AU |  |
| max. Earth dist.    | -3340 Oct 09 j 19:35 | 21° $\mathfrak{M}$ 55'40 | 1.70892 AU | morning rise        | -3337 Mar 10 j 23:50 | 16° $\approx$ 33'31      |            |  |
|                     | -3340 Oct 16 j 05:12 | 0° $\Omega$              |            | direct              | -3337 Mar 28 j 07:48 | 10° $\approx$ 50'55      |            |  |
| desc. node          | -3340 Nov 02 j 08:20 | 21° $\Omega$ 33'35       |            | greatest brilliancy | -3337 Apr 06 j 24:00 | 12° $\approx$ 32'56      | -4.7m      |  |
|                     | -3340 Nov 09 j 01:37 | 0° $\mathfrak{M}$        |            | desc. node          | -3337 Apr 20 j 03:01 | 19° $\approx$ 11'33      |            |  |
| evening rise        | -3340 Nov 19 j 06:39 | 12° $\mathfrak{M}$ 48'08 |            |                     | -3337 May 04 j 09:20 | 0° $\mathcal{C}$         |            |  |
|                     | -3340 Dec 03 j 00:48 | 0° $\mathcal{C}$         |            | morning max el      | -3337 May 16 j 02:57 | 10° $\mathcal{C}$ 37'13  | 45°48'37   |  |
|                     | -3340 Dec 27 j 03:31 | 0° $\mathfrak{C}$        |            |                     | -3337 Jun 04 j 07:32 | 0° $\Upsilon$            |            |  |
|                     | -3339 Jan 20 j 11:21 | 0° $\approx$             |            |                     | -3337 Jul 01 j 11:28 | 0° $\mathcal{C}$         |            |  |
|                     | -3339 Feb 14 j 03:15 | 0° $\mathcal{C}$         |            |                     | -3337 Jul 27 j 02:42 | 0° $\Pi$                 |            |  |
| asc. node           | -3339 Feb 23 j 05:31 | 10° $\mathcal{C}$ 55'09  |            | asc. node           | -3337 Aug 11 j 01:50 | 18° $\Pi$ 02'51          |            |  |
|                     | -3339 Mar 11 j 07:47 | 0° $\Upsilon$            |            |                     | -3337 Aug 20 j 20:22 | 0° $\mathfrak{C}$        |            |  |
|                     | -3339 Apr 06 j 08:31 | 0° $\mathcal{C}$         |            |                     | -3337 Sep 14 j 00:40 | 0° $\Omega$              |            |  |
|                     | -3339 May 03 j 22:53 | 0° $\Pi$                 |            |                     | -3337 Oct 07 j 21:58 | 0° $\mathfrak{M}$        |            |  |
| evening max el      | -3339 May 18 j 19:14 | 14° $\Pi$ 49'42          | 45°28'39   |                     | -3337 Oct 31 j 17:16 | 0° $\Omega$              |            |  |
|                     | -3339 Jun 05 j 02:39 | 0° $\mathfrak{C}$        |            | morning set         | -3337 Nov 13 j 23:49 | 16° $\Omega$ 42'31       |            |  |
| desc. node          | -3339 Jun 15 j 00:18 | 7° $\mathfrak{C}$ 01'39  |            |                     | -3337 Nov 24 j 13:48 | 0° $\mathfrak{M}$        |            |  |
| greatest brilliancy | -3339 Jun 26 j 19:26 | 12° $\mathfrak{C}$ 49'20 | -4.8m      | desc. node          | -3337 Nov 30 j 20:31 | 7° $\mathfrak{M}$ 52'28  |            |  |
| retrograde          | -3339 Jul 06 j 15:25 | 14° $\mathfrak{C}$ 33'01 |            |                     | -3337 Dec 18 j 13:00 | 0° $\mathcal{C}$         |            |  |
| evening set         | -3339 Jul 23 j 12:34 | 9° $\mathfrak{C}$ 13'29  |            |                     |                      |                          |            |  |
| inferior conj       | -3339 Jul 27 j 15:51 | 6° $\mathfrak{C}$ 45'45  | -8°07'03   | superior conj       | -3337 Dec 26 j 03:45 | 9° $\mathcal{C}$ 29'51   | -0°54'22   |  |
| minimum elong       | -3339 Jul 27 j 08:03 | 6° $\mathfrak{C}$ 57'36  | 8°05'59    | minimum elong       | -3337 Dec 25 j 16:36 | 8° $\mathcal{C}$ 55'06   | 0°54'04    |  |
| min. Earth dist.    | -3339 Jul 27 j 23:34 | 6° $\mathfrak{C}$ 34'03  | 0.27691 AU | max. Earth dist.    | -3337 Dec 30 j 19:58 | 15° $\mathcal{C}$ 19'18  | 1.71986 AU |  |
| morning rise        | -3339 Jul 31 j 03:19 | 4° $\mathfrak{C}$ 40'35  |            |                     | -3336 Jan 11 j 15:13 | 0° $\mathfrak{C}$        |            |  |
|                     | -3339 Aug 10 j 04:47 | 30° $\mathfrak{R}$ $\Pi$ |            | evening rise        | -3336 Feb 04 j 06:57 | 29° $\mathfrak{C}$ 17'57 |            |  |
| direct              | -3339 Aug 17 j 19:23 | 28° $\Pi$ 50'18          |            |                     | -3336 Feb 04 j 20:34 | 0° $\approx$             |            |  |
|                     | -3339 Aug 25 j 14:48 | 0° $\mathfrak{C}$        |            | greatest brilliancy | -3336 Feb 16 j 10:40 | 14° $\approx$ 17'19      | -3.9m      |  |
| greatest brilliancy | -3339 Aug 28 j 17:00 | 1° $\mathfrak{C}$ 02'55  | -4.9m      |                     | -3336 Feb 29 j 05:39 | 0° $\mathcal{C}$         |            |  |
| asc. node           | -3339 Oct 05 j 22:56 | 0° $\Omega$ 27'14        |            | asc. node           | -3336 Mar 22 j 17:44 | 27° $\mathcal{C}$ 28'52  |            |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 14

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |            |                     |                      |           |            |  |
|---------------------|----------------------|-----------|------------|------------|---------------------|----------------------|-----------|------------|--|
|                     | -3336 Mar 24 j 19:29 | 0°♄       |            |            |                     | -3334 Oct 21 j 15:50 | 0°♍       |            |  |
|                     | -3336 Apr 18 j 15:25 | 0°♊       |            |            |                     | -3334 Nov 14 j 18:43 | 0°♋       |            |  |
|                     | -3336 May 13 j 19:26 | 0°♈       |            |            |                     | -3334 Dec 08 j 20:29 | 0°♌       |            |  |
|                     | -3336 Jun 08 j 11:36 | 0°♎       |            | desc. node |                     | -3334 Dec 28 j 08:28 | 24°♍14'10 |            |  |
|                     | -3336 Jul 05 j 01:58 | 0°♏       |            |            |                     | -3333 Jan 01 j 23:58 | 0°♌       |            |  |
| desc. node          | -3336 Jul 12 j 11:53 | 8°♏03'01  |            |            |                     | -3333 Jan 26 j 05:45 | 0°♍       |            |  |
| evening max el      | -3336 Jul 31 j 05:28 | 27°♏22'48 | 46°51'46   |            | morning set         | -3333 Jan 29 j 13:05 | 4°♍04'59  |            |  |
|                     | -3336 Aug 02 j 22:05 | 0°♍       |            |            |                     | -3333 Feb 19 j 13:26 | 0°♎       |            |  |
| greatest brilliancy | -3336 Sep 10 j 07:44 | 27°♍46'14 | -4.9m      |            |                     |                      |           |            |  |
| retrograde          | -3336 Sep 19 j 08:59 | 29°♍18'52 |            |            | superior conj       | -3333 Mar 09 j 00:10 | 21°♎28'26 | -1°17'34   |  |
| evening set         | -3336 Oct 05 j 05:17 | 24°♍27'47 |            |            | minimum elong       | -3333 Mar 09 j 06:43 | 21°♎48'35 | 1°17'32    |  |
| inferior conj       | -3336 Oct 09 j 23:13 | 21°♍38'57 | -5°37'30   |            | max. Earth dist.    | -3333 Mar 10 j 03:43 | 22°♎53'09 | 1.73457 AU |  |
| minimum elong       | -3336 Oct 10 j 09:37 | 21°♍23'07 | 5°34'50    |            |                     | -3333 Mar 15 j 22:37 | 0°♏       |            |  |
| min. Earth dist.    | -3336 Oct 10 j 05:07 | 21°♍29'57 | 0.26421 AU |            |                     | -3333 Apr 09 j 09:06 | 0°♄       |            |  |
| morning rise        | -3336 Oct 15 j 13:46 | 18°♍21'26 |            |            | evening rise        | -3333 Apr 14 j 19:47 | 6°♄40'37  |            |  |
| direct              | -3336 Oct 30 j 05:51 | 14°♍03'53 |            |            | asc. node           | -3333 Apr 20 j 06:01 | 13°♄19'38 |            |  |
| asc. node           | -3336 Nov 02 j 10:30 | 14°♍16'09 |            |            |                     | -3333 May 03 j 20:41 | 0°♊       |            |  |
| greatest brilliancy | -3336 Nov 09 j 16:12 | 16°♍07'56 | -4.9m      |            |                     | -3333 May 28 j 09:22 | 0°♈       |            |  |
|                     | -3336 Dec 01 j 07:07 | 0°♋       |            |            |                     | -3333 Jun 21 j 23:48 | 0°♎       |            |  |
| morning max el      | -3336 Dec 19 j 16:15 | 17°♋08'21 | 46°41'30   |            |                     | -3333 Jul 16 j 17:44 | 0°♏       |            |  |
|                     | -3335 Jan 01 j 00:33 | 0°♌       |            |            | desc. node          | -3333 Aug 09 j 23:51 | 29°♏04'47 |            |  |
|                     | -3335 Jan 28 j 01:03 | 0°♌       |            |            |                     | -3333 Aug 10 j 18:26 | 0°♍       |            |  |
| desc. node          | -3335 Feb 22 j 06:07 | 29°♌08'27 |            |            |                     | -3333 Sep 05 j 08:06 | 0°♋       |            |  |
|                     | -3335 Feb 22 j 23:45 | 0°♍       |            |            |                     | -3333 Oct 02 j 02:20 | 0°♌       |            |  |
|                     | -3335 Mar 20 j 10:39 | 0°♎       |            |            | evening max el      | -3333 Oct 12 j 23:41 | 11°♌26'30 | 47°33'07   |  |
|                     | -3335 Apr 14 j 13:53 | 0°♏       |            |            |                     | -3333 Nov 01 j 18:14 | 0°♌       |            |  |
|                     | -3335 May 09 j 10:35 | 0°♄       |            |            | greatest brilliancy | -3333 Nov 22 j 13:32 | 13°♌20'11 | -4.9m      |  |
|                     | -3335 Jun 03 j 00:56 | 0°♊       |            |            | asc. node           | -3333 Nov 30 j 22:04 | 15°♌23'58 |            |  |
| asc. node           | -3335 Jun 15 j 04:10 | 14°♊55'05 |            |            | retrograde          | -3333 Dec 03 j 03:44 | 15°♌30'09 |            |  |
| morning set         | -3335 Jun 17 j 13:19 | 17°♊51'21 |            |            | evening set         | -3333 Dec 18 j 08:46 | 10°♌47'47 |            |  |
|                     | -3335 Jun 27 j 08:59 | 0°♈       |            |            | min. Earth dist.    | -3333 Dec 22 j 21:18 | 8°♌03'29  | 0.27397 AU |  |
| max. Earth dist.    | -3335 Jul 20 j 00:54 | 28°♈11'52 | 1.72047 AU |            | inferior conj       | -3333 Dec 23 j 23:58 | 7°♌21'34  | 5°20'23    |  |
|                     | -3335 Jul 21 j 11:31 | 0°♎       |            |            | minimum elong       | -3333 Dec 23 j 14:44 | 7°♌36'06  | 5°18'04    |  |
|                     |                      |           |            |            | morning rise        | -3333 Dec 28 j 21:29 | 4°♌22'31  |            |  |
| superior conj       | -3335 Jul 24 j 04:54 | 3°♎24'20  | 1°14'51    |            |                     | -3332 Jan 08 j 14:06 | 30°♌      |            |  |
| minimum elong       | -3335 Jul 23 j 21:26 | 3°♎01'01  | 1°14'48    |            | direct              | -3332 Jan 13 j 14:21 | 29°♌28'56 |            |  |
|                     | -3335 Aug 14 j 10:18 | 0°♏       |            |            |                     | -3332 Jan 18 j 17:53 | 0°♌       |            |  |
| evening rise        | -3335 Aug 31 j 02:25 | 20°♏56'14 |            |            | greatest brilliancy | -3332 Jan 22 j 10:12 | 0°♌57'26  | -4.8m      |  |
|                     | -3335 Sep 07 j 07:39 | 0°♍       |            |            |                     | -3332 Mar 02 j 14:36 | 0°♍       |            |  |
|                     | -3335 Oct 01 j 05:44 | 0°♋       |            |            | morning max el      | -3332 Mar 02 j 18:41 | 0°♍09'48  | 46°03'34   |  |
| desc. node          | -3335 Oct 04 j 22:14 | 4°♋36'52  |            |            | desc. node          | -3332 Mar 21 j 17:44 | 19°♍24'19 |            |  |
|                     | -3335 Oct 25 j 06:11 | 0°♌       |            |            |                     | -3332 Mar 31 j 14:40 | 0°♎       |            |  |
|                     | -3335 Nov 18 j 10:23 | 0°♌       |            |            |                     | -3332 Apr 27 j 10:06 | 0°♏       |            |  |
|                     | -3335 Dec 12 j 20:57 | 0°♍       |            |            |                     | -3332 May 23 j 05:17 | 0°♄       |            |  |
|                     | -3334 Jan 06 j 19:33 | 0°♎       |            |            |                     | -3332 Jun 17 j 08:38 | 0°♊       |            |  |
| asc. node           | -3334 Jan 25 j 19:30 | 22°♎08'26 |            |            |                     | -3332 Jul 11 j 23:34 | 0°♈       |            |  |
|                     | -3334 Feb 01 j 18:00 | 0°♏       |            |            | asc. node           | -3332 Jul 12 j 16:02 | 0°♈50'39  |            |  |
|                     | -3334 Mar 01 j 21:58 | 0°♄       |            |            |                     | -3332 Aug 05 j 04:36 | 0°♎       |            |  |
| evening max el      | -3334 Mar 06 j 04:11 | 4°♄09'26  | 45°15'39   |            | morning set         | -3332 Aug 26 j 16:59 | 26°♎58'16 |            |  |
|                     | -3334 Apr 09 j 00:52 | 0°♊       |            |            |                     | -3332 Aug 29 j 02:45 | 0°♏       |            |  |
| greatest brilliancy | -3334 Apr 12 j 19:07 | 1°♊34'17  | -4.7m      |            |                     | -3332 Sep 21 j 21:34 | 0°♍       |            |  |
| retrograde          | -3334 Apr 23 j 12:20 | 3°♊37'48  |            |            |                     |                      |           |            |  |
|                     | -3334 May 07 j 05:25 | 30°♌      |            |            | superior conj       | -3332 Oct 05 j 07:28 | 16°♌55'45 | 0°57'52    |  |
| evening set         | -3334 May 08 j 14:11 | 29°♌17'13 |            |            | minimum elong       | -3332 Oct 05 j 18:44 | 17°♌31'17 | 0°57'29    |  |
| inferior conj       | -3334 May 14 j 22:36 | 25°♌31'44 | 0°37'07    |            | max. Earth dist.    | -3332 Oct 07 j 00:52 | 19°♌06'18 | 1.70884 AU |  |
| minimum elong       | -3334 May 14 j 23:58 | 25°♌29'37 | 0°36'45    |            |                     | -3332 Oct 15 j 16:12 | 0°♋       |            |  |
| min. Earth dist.    | -3334 May 15 j 13:06 | 25°♌09'15 | 0.28872 AU |            | desc. node          | -3332 Nov 01 j 10:30 | 21°♋05'53 |            |  |
| desc. node          | -3334 May 17 j 14:42 | 23°♌52'57 |            |            |                     | -3332 Nov 08 j 12:37 | 0°♌       |            |  |
| morning rise        | -3334 May 21 j 09:07 | 21°♌41'26 |            |            | evening rise        | -3332 Nov 16 j 15:50 | 10°♌12'04 |            |  |
| direct              | -3334 Jun 05 j 16:10 | 17°♌12'29 |            |            |                     | -3332 Dec 02 j 11:50 | 0°♌       |            |  |
| greatest brilliancy | -3334 Jun 16 j 17:45 | 19°♌23'39 | -4.7m      |            |                     | -3332 Dec 26 j 14:38 | 0°♍       |            |  |
|                     | -3334 Jul 04 j 18:34 | 0°♊       |            |            |                     | -3331 Jan 19 j 22:41 | 0°♎       |            |  |
| morning max el      | -3334 Jul 25 j 03:53 | 17°♊56'53 | 46°14'52   |            |                     | -3331 Feb 13 j 15:01 | 0°♏       |            |  |
|                     | -3334 Aug 06 j 00:12 | 0°♈       |            |            | asc. node           | -3331 Feb 22 j 07:38 | 10°♏25'42 |            |  |
|                     | -3334 Sep 01 j 23:47 | 0°♎       |            |            |                     | -3331 Mar 10 j 20:24 | 0°♄       |            |  |
| asc. node           | -3334 Sep 07 j 13:36 | 6°♎30'32  |            |            |                     | -3331 Apr 05 j 22:54 | 0°♊       |            |  |
|                     | -3334 Sep 27 j 05:21 | 0°♏       |            |            |                     | -3331 May 03 j 17:32 | 0°♈       |            |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 15

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                           |            |                     |  |                      |                                  |            |
|---------------------|----------------------|---------------------------|------------|---------------------|--|----------------------|----------------------------------|------------|
| evening max el      | -3331 May 16 j 09:49 | 12° $\Pi$ 34'54           | 45°26'36   |                     |  | -3329 Oct 31 j 04:29 | 0° $\underline{\text{a}}$        |            |
|                     | -3331 Jun 05 j 16:25 | 0° $\text{☾}$             |            | morning set         |  | -3329 Nov 11 j 09:24 | 14° $\underline{\text{a}}$ 06'30 |            |
| desc. node          | -3331 Jun 14 j 02:17 | 5° $\text{☾}$ 39'08       |            |                     |  | -3329 Nov 24 j 00:56 | 0° $\mathbb{M}$                  |            |
| greatest brilliancy | -3331 Jun 24 j 07:58 | 10° $\text{☾}$ 30'19      | -4.8m      | desc. node          |  | -3329 Nov 29 j 22:29 | 7° $\mathbb{M}$ 23'46            |            |
| retrograde          | -3331 Jul 04 j 04:15 | 12° $\text{☾}$ 14'08      |            |                     |  | -3329 Dec 18 j 00:04 | 0° $\text{✗}$                    |            |
| evening set         | -3331 Jul 20 j 22:22 | 7° $\text{☾}$ 00'11       |            |                     |  |                      |                                  |            |
| inferior conj       | -3331 Jul 25 j 05:35 | 4° $\text{☾}$ 26'34       | -7°57'19   | superior conj       |  | -3329 Dec 23 j 14:18 | 6° $\text{✗}$ 58'44              | -0°51'24   |
| minimum elong       | -3331 Jul 24 j 21:14 | 4° $\text{☾}$ 39'17       | 7°56'06    | minimum elong       |  | -3329 Dec 23 j 03:20 | 6° $\text{✗}$ 24'31              | 0°51'04    |
| min. Earth dist.    | -3331 Jul 25 j 13:13 | 4° $\text{☾}$ 14'58       | 0.27736 AU | max. Earth dist.    |  | -3329 Dec 28 j 06:18 | 12° $\text{✗}$ 47'42             | 1.71922 AU |
| morning rise        | -3331 Jul 28 j 19:52 | 2° $\text{☾}$ 16'57       |            |                     |  | -3328 Jan 11 j 02:11 | 0° $\text{☾}$                    |            |
|                     | -3331 Aug 02 j 00:21 | 30° $\text{☾}$            |            | evening rise        |  | -3328 Feb 01 j 20:53 | 26° $\text{☾}$ 58'57             |            |
| direct              | -3331 Aug 15 j 09:46 | 26° $\Pi$ 30'22           |            |                     |  | -3328 Feb 04 j 07:30 | 0° $\approx$                     |            |
| greatest brilliancy | -3331 Aug 26 j 07:27 | 28° $\Pi$ 42'22           | -4.9m      | greatest brilliancy |  | -3328 Feb 16 j 14:20 | 15° $\approx$ 08'47              | -3.9m      |
|                     | -3331 Aug 29 j 07:36 | 0° $\text{☾}$             |            |                     |  | -3328 Feb 28 j 16:37 | 0° $\text{✗}$                    |            |
| morning max el      | -3331 Oct 05 j 00:16 | 29° $\text{☾}$ 33'14      | 46°49'18   | asc. node           |  | -3328 Mar 21 j 19:57 | 27° $\text{✗}$ 01'39             |            |
| asc. node           | -3331 Oct 05 j 01:08 | 29° $\text{☾}$ 35'26      |            |                     |  | -3328 Mar 24 j 06:41 | 0° $\text{☾}$                    |            |
|                     | -3331 Oct 05 j 10:45 | 0° $\Omega$               |            |                     |  | -3328 Apr 18 j 03:06 | 0° $\text{✗}$                    |            |
|                     | -3331 Nov 01 j 19:49 | 0° $\mathbb{M}$           |            |                     |  | -3328 May 13 j 08:00 | 0° $\Pi$                         |            |
|                     | -3331 Nov 27 j 07:27 | 0° $\underline{\text{a}}$ |            |                     |  | -3328 Jun 08 j 01:43 | 0° $\text{☾}$                    |            |
|                     | -3331 Dec 22 j 04:09 | 0° $\mathbb{M}$           |            |                     |  | -3328 Jul 04 j 19:08 | 0° $\Omega$                      |            |
|                     | -3330 Jan 15 j 20:30 | 0° $\text{✗}$             |            | desc. node          |  | -3328 Jul 11 j 14:01 | 7° $\Omega$ 19'16                |            |
| desc. node          | -3330 Jan 24 j 20:24 | 10° $\text{✗}$ 56'56      |            | evening max el      |  | -3328 Jul 28 j 17:14 | 24° $\Omega$ 55'23               | 46°48'48   |
|                     | -3330 Feb 09 j 11:56 | 0° $\text{☾}$             |            |                     |  | -3328 Aug 02 j 23:49 | 0° $\mathbb{M}$                  |            |
|                     | -3330 Mar 06 j 02:58 | 0° $\approx$              |            | greatest brilliancy |  | -3328 Sep 07 j 20:24 | 25° $\mathbb{M}$ 16'56           | -4.9m      |
|                     | -3330 Mar 30 j 17:06 | 0° $\text{✗}$             |            | retrograde          |  | -3328 Sep 16 j 20:38 | 26° $\mathbb{M}$ 49'01           |            |
| morning set         | -3330 Apr 09 j 11:36 | 11° $\text{✗}$ 56'34      |            | evening set         |  | -3328 Oct 02 j 20:27 | 21° $\mathbb{M}$ 53'04           |            |
|                     | -3330 Apr 24 j 05:38 | 0° $\text{☾}$             |            | inferior conj       |  | -3328 Oct 07 j 11:11 | 19° $\mathbb{M}$ 09'10           | -5°56'13   |
| max. Earth dist.    | -3330 May 12 j 16:52 | 22° $\text{☾}$ 40'11      | 1.73551 AU | minimum elong       |  | -3328 Oct 07 j 21:49 | 18° $\mathbb{M}$ 53'01           | 5°53'36    |
|                     |                      |                           |            | min. Earth dist.    |  | -3328 Oct 07 j 18:14 | 18° $\mathbb{M}$ 58'28           | 0.26447 AU |
| superior conj       | -3330 May 15 j 10:39 | 26° $\text{☾}$ 02'24      | -0°05'28   | morning rise        |  | -3328 Oct 12 j 22:57 | 15° $\mathbb{M}$ 55'46           |            |
| minimum elong       | -3330 May 15 j 11:43 | 26° $\text{☾}$ 05'40      | 0°05'22    | direct              |  | -3328 Oct 27 j 17:57 | 11° $\mathbb{M}$ 33'27           |            |
| behind sun begin    | -3330 May 14 j 14:46 | 25° $\text{☾}$ 01'17      |            | asc. node           |  | -3328 Nov 01 j 12:34 | 12° $\mathbb{M}$ 00'40           |            |
| behind sun end      | -3330 May 16 j 08:39 | 27° $\text{☾}$ 10'04      |            | greatest brilliancy |  | -3328 Nov 07 j 06:06 | 13° $\mathbb{M}$ 39'24           | -4.9m      |
| asc. node           | -3330 May 17 j 18:11 | 28° $\text{☾}$ 53'12      |            |                     |  | -3328 Dec 01 j 17:26 | 0° $\underline{\text{a}}$        |            |
|                     | -3330 May 18 j 15:53 | 0° $\text{✗}$             |            | morning max el      |  | -3328 Dec 17 j 05:52 | 14° $\underline{\text{a}}$ 42'52 | 46°42'40   |
|                     | -3330 Jun 11 j 23:30 | 0° $\Pi$                  |            |                     |  | -3328 Dec 31 j 19:45 | 0° $\mathbb{M}$                  |            |
| evening rise        | -3330 Jun 20 j 01:26 | 9° $\Pi$ 59'45            |            |                     |  | -3327 Jan 27 j 16:13 | 0° $\text{✗}$                    |            |
|                     | -3330 Jul 06 j 04:50 | 0° $\text{☾}$             |            | desc. node          |  | -3327 Feb 21 j 08:16 | 28° $\text{✗}$ 35'42             |            |
|                     | -3330 Jul 30 j 09:11 | 0° $\Omega$               |            |                     |  | -3327 Feb 22 j 13:02 | 0° $\text{☾}$                    |            |
|                     | -3330 Aug 23 j 14:23 | 0° $\mathbb{M}$           |            |                     |  | -3327 Mar 19 j 22:51 | 0° $\approx$                     |            |
| desc. node          | -3330 Sep 06 j 12:06 | 17° $\mathbb{M}$ 10'09    |            |                     |  | -3327 Apr 14 j 01:24 | 0° $\text{✗}$                    |            |
|                     | -3330 Sep 16 j 22:25 | 0° $\underline{\text{a}}$ |            |                     |  | -3327 May 08 j 21:43 | 0° $\text{☾}$                    |            |
|                     | -3330 Oct 11 j 11:46 | 0° $\mathbb{M}$           |            |                     |  | -3327 Jun 02 j 11:51 | 0° $\text{✗}$                    |            |
|                     | -3330 Nov 05 j 11:23 | 0° $\text{✗}$             |            | asc. node           |  | -3327 Jun 14 j 06:13 | 14° $\text{✗}$ 27'50             |            |
|                     | -3330 Dec 01 j 09:58 | 0° $\text{☾}$             |            | morning set         |  | -3327 Jun 15 j 07:34 | 15° $\text{☾}$ 46'00             |            |
| evening max el      | -3330 Dec 22 j 23:54 | 23° $\text{☾}$ 06'09      | 46°28'50   |                     |  | -3327 Jun 26 j 19:52 | 0° $\Pi$                         |            |
| asc. node           | -3330 Dec 28 j 09:47 | 28° $\text{☾}$ 27'05      |            | max. Earth dist.    |  | -3327 Jul 17 j 18:09 | 26° $\Pi$ 01'46                  | 1.72110 AU |
|                     | -3330 Dec 30 j 00:33 | 0° $\approx$              |            |                     |  | -3327 Jul 20 j 22:28 | 0° $\text{☾}$                    |            |
| greatest brilliancy | -3329 Jan 31 j 05:47 | 23° $\approx$ 18'31       | -4.8m      |                     |  |                      |                                  |            |
| retrograde          | -3329 Feb 11 j 00:49 | 25° $\approx$ 28'37       |            | superior conj       |  | -3327 Jul 21 j 21:35 | 1° $\text{☾}$ 12'15              | 1°13'17    |
| evening set         | -3329 Feb 28 j 17:19 | 19° $\approx$ 26'33       |            | minimum elong       |  | -3327 Jul 21 j 13:47 | 0° $\text{☾}$ 47'52              | 1°13'13    |
| inferior conj       | -3329 Mar 04 j 10:27 | 17° $\approx$ 05'52       | 7°54'59    |                     |  | -3327 Aug 13 j 21:21 | 0° $\Omega$                      |            |
| minimum elong       | -3329 Mar 04 j 15:41 | 16° $\approx$ 57'29       | 7°54'28    | evening rise        |  | -3327 Aug 28 j 15:28 | 18° $\Omega$ 31'28               |            |
| min. Earth dist.    | -3329 Mar 04 j 10:04 | 17° $\approx$ 06'28       | 0.29179 AU |                     |  | -3327 Sep 06 j 18:52 | 0° $\mathbb{M}$                  |            |
| morning rise        | -3329 Mar 08 j 14:13 | 14° $\approx$ 29'11       |            |                     |  | -3327 Sep 30 j 17:09 | 0° $\underline{\text{a}}$        |            |
| direct              | -3329 Mar 25 j 23:55 | 8° $\approx$ 43'12        |            | desc. node          |  | -3327 Oct 04 j 00:21 | 4° $\underline{\text{a}}$ 07'41  |            |
| greatest brilliancy | -3329 Apr 04 j 15:32 | 10° $\approx$ 24'22       | -4.7m      |                     |  | -3327 Oct 24 j 17:50 | 0° $\mathbb{M}$                  |            |
| desc. node          | -3329 Apr 19 j 05:11 | 17° $\approx$ 59'30       |            |                     |  | -3327 Nov 17 j 22:21 | 0° $\text{✗}$                    |            |
|                     | -3329 May 04 j 13:02 | 0° $\text{✗}$             |            |                     |  | -3327 Dec 12 j 09:24 | 0° $\text{☾}$                    |            |
| morning max el      | -3329 May 13 j 18:07 | 8° $\text{✗}$ 26'08       | 45°48'19   |                     |  | -3326 Jan 06 j 08:53 | 0° $\approx$                     |            |
|                     | -3329 Jun 04 j 00:22 | 0° $\text{☾}$             |            | asc. node           |  | -3326 Jan 24 j 21:42 | 21° $\approx$ 33'04              |            |
|                     | -3329 Jul 01 j 01:15 | 0° $\text{✗}$             |            |                     |  | -3326 Feb 01 j 09:17 | 0° $\text{✗}$                    |            |
|                     | -3329 Jul 26 j 15:09 | 0° $\Pi$                  |            |                     |  | -3326 Mar 01 j 18:57 | 0° $\text{☾}$                    |            |
| asc. node           | -3329 Aug 10 j 04:03 | 17° $\Pi$ 32'56           |            | evening max el      |  | -3326 Mar 03 j 20:31 | 2° $\text{☾}$ 00'07              | 45°17'07   |
|                     | -3329 Aug 20 j 08:10 | 0° $\text{☾}$             |            | greatest brilliancy |  | -3326 Apr 10 j 10:37 | 29° $\text{☾}$ 25'37             | -4.7m      |
|                     | -3329 Sep 13 j 12:09 | 0° $\Omega$               |            |                     |  | -3326 Apr 12 j 02:50 | 0° $\text{✗}$                    |            |
|                     | -3329 Oct 07 j 09:17 | 0° $\mathbb{M}$           |            | retrograde          |  | -3326 Apr 21 j 05:13 | 1° $\text{✗}$ 30'00              |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 16

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                   |            |                     |                      |                                   |            |
|---------------------|----------------------|-----------------------------------|------------|---------------------|----------------------|-----------------------------------|------------|
|                     | -3326 Apr 29 j 22:17 | 30° $\kappa$ $\Upsilon$           |            | superior conj       | -3324 Oct 02 j 18:06 | 14° $\mathfrak{M}$ 22'11          | 1°00'37    |
| evening set         | -3326 May 06 j 07:42 | 27° $\Upsilon$ 07'31              |            | minimum elong       | -3324 Oct 03 j 05:19 | 14° $\mathfrak{M}$ 57'35          | 1°00'17    |
| inferior conj       | -3326 May 12 j 14:59 | 23° $\Upsilon$ 23'04              | 0°56'27    | max. Earth dist.    | -3324 Oct 04 j 03:06 | 16° $\mathfrak{M}$ 06'17          | 1.70889 AU |
| minimum elong       | -3326 May 12 j 17:02 | 23° $\Upsilon$ 19'52              | 0°55'54    |                     | -3324 Oct 15 j 03:33 | 0° $\mathfrak{A}$                 |            |
| min. Earth dist.    | -3326 May 13 j 05:15 | 23° $\Upsilon$ 00'55              | 0.28905 AU | desc. node          | -3324 Oct 31 j 12:30 | 20° $\mathfrak{A}$ 36'20          |            |
| desc. node          | -3326 May 16 j 16:39 | 20° $\Upsilon$ 53'52              |            |                     | -3324 Nov 08 j 00:03 | 0° $\mathfrak{M}$                 |            |
| morning rise        | -3326 May 19 j 01:53 | 19° $\Upsilon$ 32'19              |            | evening rise        | -3324 Nov 14 j 00:29 | 7° $\mathfrak{M}$ 32'51           |            |
| direct              | -3326 Jun 03 j 09:15 | 15° $\Upsilon$ 03'21              |            |                     | -3324 Dec 01 j 23:19 | 0° $\mathfrak{X}$                 |            |
| greatest brilliancy | -3326 Jun 14 j 09:23 | 17° $\Upsilon$ 13'36              | -4.7m      |                     | -3324 Dec 26 j 02:12 | 0° $\mathfrak{Z}$                 |            |
|                     | -3326 Jul 05 j 05:51 | 0° $\mathfrak{B}$                 |            |                     | -3323 Jan 19 j 10:28 | 0° $\approx$                      |            |
| morning max el      | -3326 Jul 22 j 20:37 | 15° $\mathfrak{B}$ 46'26          | 46°13'24   |                     | -3323 Feb 13 j 03:15 | 0° $\mathfrak{H}$                 |            |
|                     | -3326 Aug 05 j 18:40 | 0° $\mathfrak{I}$                 |            | asc. node           | -3323 Feb 21 j 09:50 | 9° $\mathfrak{H}$ 55'01           |            |
|                     | -3326 Sep 01 j 14:32 | 0° $\mathfrak{E}$                 |            |                     | -3323 Mar 10 j 09:33 | 0° $\Upsilon$                     |            |
| asc. node           | -3326 Sep 06 j 15:47 | 5° $\mathfrak{E}$ 54'50           |            |                     | -3323 Apr 05 j 13:54 | 0° $\mathfrak{B}$                 |            |
|                     | -3326 Sep 26 j 18:35 | 0° $\mathfrak{Q}$                 |            |                     | -3323 May 03 j 13:11 | 0° $\mathfrak{I}$                 |            |
|                     | -3326 Oct 21 j 04:18 | 0° $\mathfrak{M}$                 |            | evening max el      | -3323 May 13 j 23:48 | 10° $\mathfrak{I}$ 17'39          | 45°24'44   |
|                     | -3326 Nov 14 j 06:44 | 0° $\mathfrak{A}$                 |            |                     | -3323 Jun 06 j 11:20 | 0° $\mathfrak{E}$                 |            |
|                     | -3326 Dec 08 j 08:11 | 0° $\mathfrak{M}$                 |            | desc. node          | -3323 Jun 13 j 04:29 | 4° $\mathfrak{E}$ 13'24           |            |
| desc. node          | -3326 Dec 27 j 10:37 | 23° $\mathfrak{M}$ 45'08          |            | greatest brilliancy | -3323 Jun 21 j 21:04 | 8° $\mathfrak{E}$ 11'24           | -4.8m      |
|                     | -3325 Jan 01 j 11:25 | 0° $\mathfrak{X}$                 |            | retrograde          | -3323 Jul 01 j 17:11 | 9° $\mathfrak{E}$ 55'20           |            |
|                     | -3325 Jan 25 j 17:00 | 0° $\mathfrak{Z}$                 |            | evening set         | -3323 Jul 18 j 08:22 | 4° $\mathfrak{E}$ 46'44           |            |
| morning set         | -3325 Jan 27 j 02:02 | 1° $\mathfrak{Z}$ 42'05           |            | inferior conj       | -3323 Jul 22 j 19:34 | 2° $\mathfrak{E}$ 07'29           | -7°46'56   |
|                     | -3325 Feb 19 j 00:31 | 0° $\approx$                      |            | minimum elong       | -3323 Jul 22 j 10:42 | 2° $\mathfrak{E}$ 20'59           | 7°45'33    |
|                     |                      |                                   |            | min. Earth dist.    | -3323 Jul 23 j 03:23 | 1° $\mathfrak{E}$ 55'33           | 0.27777 AU |
| superior conj       | -3325 Mar 06 j 16:42 | 19° $\approx$ 17'45               | -1°18'46   |                     | -3323 Jul 26 j 08:14 | 30° $\mathfrak{R}$ $\mathfrak{I}$ |            |
| minimum elong       | -3325 Mar 06 j 22:47 | 19° $\approx$ 36'26               | 1°18'45    | morning rise        | -3323 Jul 26 j 12:43 | 29° $\mathfrak{I}$ 53'25          |            |
| max. Earth dist.    | -3325 Mar 08 j 00:42 | 20° $\approx$ 56'09               | 1.73423 AU | direct              | -3323 Aug 12 j 23:52 | 24° $\mathfrak{I}$ 10'25          |            |
|                     | -3325 Mar 15 j 09:38 | 0° $\mathfrak{H}$                 |            | greatest brilliancy | -3323 Aug 23 j 22:35 | 26° $\mathfrak{I}$ 22'36          | -4.9m      |
|                     | -3325 Apr 08 j 20:06 | 0° $\Upsilon$                     |            |                     | -3323 Aug 31 j 08:29 | 0° $\mathfrak{E}$                 |            |
| evening rise        | -3325 Apr 12 j 14:24 | 4° $\Upsilon$ 36'50               |            | morning max el      | -3323 Oct 02 j 12:47 | 27° $\mathfrak{E}$ 05'15          | 46°48'34   |
| asc. node           | -3325 Apr 19 j 08:05 | 12° $\Upsilon$ 52'10              |            | asc. node           | -3323 Oct 04 j 03:15 | 28° $\mathfrak{E}$ 43'44          |            |
|                     | -3325 May 03 j 07:48 | 0° $\mathfrak{B}$                 |            |                     | -3323 Oct 05 j 08:45 | 0° $\mathfrak{Q}$                 |            |
|                     | -3325 May 27 j 20:46 | 0° $\mathfrak{I}$                 |            |                     | -3323 Nov 01 j 12:09 | 0° $\mathfrak{M}$                 |            |
|                     | -3325 Jun 21 j 11:40 | 0° $\mathfrak{E}$                 |            |                     | -3323 Nov 26 j 21:39 | 0° $\mathfrak{A}$                 |            |
|                     | -3325 Jul 16 j 06:20 | 0° $\mathfrak{Q}$                 |            |                     | -3323 Dec 21 j 17:13 | 0° $\mathfrak{M}$                 |            |
| desc. node          | -3325 Aug 09 j 02:01 | 28° $\mathfrak{Q}$ 30'32          |            |                     | -3322 Jan 15 j 08:51 | 0° $\mathfrak{X}$                 |            |
|                     | -3325 Aug 10 j 08:11 | 0° $\mathfrak{M}$                 |            | desc. node          | -3322 Jan 23 j 22:36 | 10° $\mathfrak{X}$ 26'35          |            |
|                     | -3325 Sep 04 j 23:49 | 0° $\mathfrak{A}$                 |            |                     | -3322 Feb 08 j 23:47 | 0° $\mathfrak{Z}$                 |            |
|                     | -3325 Oct 01 j 22:17 | 0° $\mathfrak{M}$                 |            |                     | -3322 Mar 05 j 14:26 | 0° $\approx$                      |            |
| evening max el      | -3325 Oct 10 j 15:48 | 9° $\mathfrak{M}$ 07'02           | 47°33'34   |                     | -3322 Mar 30 j 04:19 | 0° $\mathfrak{H}$                 |            |
|                     | -3325 Nov 02 j 07:52 | 0° $\mathfrak{X}$                 |            | morning set         | -3322 Apr 07 j 05:46 | 9° $\mathfrak{H}$ 51'17           |            |
| greatest brilliancy | -3325 Nov 20 j 04:41 | 10° $\mathfrak{X}$ 56'27          | -4.9m      |                     | -3322 Apr 23 j 16:43 | 0° $\Upsilon$                     |            |
| asc. node           | -3325 Nov 30 j 00:10 | 13° $\mathfrak{X}$ 05'02          |            | max. Earth dist.    | -3322 May 10 j 12:44 | 20° $\Upsilon$ 39'49              | 1.73579 AU |
| retrograde          | -3325 Nov 30 j 18:53 | 13° $\mathfrak{X}$ 05'47          |            |                     |                      |                                   |            |
| evening set         | -3325 Dec 15 j 20:49 | 8° $\mathfrak{X}$ 27'37           |            | superior conj       | -3322 May 13 j 05:32 | 23° $\Upsilon$ 59'00              | -0°08'30   |
| min. Earth dist.    | -3325 Dec 20 j 11:22 | 5° $\mathfrak{X}$ 40'22           | 0.27321 AU | minimum elong       | -3322 May 13 j 07:12 | 24° $\Upsilon$ 04'05              | 0°08'23    |
| inferior conj       | -3325 Dec 21 j 14:06 | 4° $\mathfrak{X}$ 58'21           | 5°03'12    | behind sun begin    | -3322 May 12 j 12:17 | 23° $\Upsilon$ 05'56              |            |
| minimum elong       | -3325 Dec 21 j 05:04 | 5° $\mathfrak{X}$ 12'32           | 5°00'50    | behind sun end      | -3322 May 14 j 02:07 | 25° $\Upsilon$ 02'16              |            |
| morning rise        | -3325 Dec 26 j 14:14 | 1° $\mathfrak{X}$ 55'51           |            | asc. node           | -3322 May 16 j 20:15 | 28° $\Upsilon$ 25'36              |            |
|                     | -3325 Dec 30 j 06:52 | 30° $\mathfrak{R}$ $\mathfrak{M}$ |            |                     | -3322 May 18 j 02:56 | 0° $\mathfrak{B}$                 |            |
| direct              | -3324 Jan 11 j 04:21 | 27° $\mathfrak{M}$ 07'16          |            |                     | -3322 Jun 11 j 10:37 | 0° $\mathfrak{I}$                 |            |
| greatest brilliancy | -3324 Jan 19 j 23:37 | 28° $\mathfrak{M}$ 35'33          | -4.8m      | evening rise        | -3322 Jun 17 j 20:20 | 7° $\mathfrak{I}$ 55'10           |            |
|                     | -3324 Jan 23 j 17:03 | 0° $\mathfrak{X}$                 |            |                     | -3322 Jul 05 j 16:09 | 0° $\mathfrak{E}$                 |            |
| morning max el      | -3324 Feb 29 j 09:08 | 27° $\mathfrak{X}$ 52'43          | 46°04'37   |                     | -3322 Jul 29 j 20:46 | 0° $\mathfrak{Q}$                 |            |
|                     | -3324 Mar 02 j 13:33 | 0° $\mathfrak{Z}$                 |            |                     | -3322 Aug 23 j 02:19 | 0° $\mathfrak{M}$                 |            |
| desc. node          | -3324 Mar 20 j 19:53 | 18° $\mathfrak{Z}$ 42'47          |            | desc. node          | -3322 Sep 05 j 14:13 | 16° $\mathfrak{M}$ 39'10          |            |
|                     | -3324 Mar 31 j 06:51 | 0° $\approx$                      |            |                     | -3322 Sep 16 j 10:49 | 0° $\mathfrak{A}$                 |            |
|                     | -3324 Apr 26 j 23:48 | 0° $\mathfrak{H}$                 |            |                     | -3322 Oct 11 j 00:53 | 0° $\mathfrak{M}$                 |            |
|                     | -3324 May 22 j 17:45 | 0° $\Upsilon$                     |            |                     | -3322 Nov 05 j 01:44 | 0° $\mathfrak{X}$                 |            |
|                     | -3324 Jun 16 j 20:25 | 0° $\mathfrak{B}$                 |            |                     | -3322 Dec 01 j 02:56 | 0° $\mathfrak{Z}$                 |            |
|                     | -3324 Jul 11 j 10:59 | 0° $\mathfrak{I}$                 |            | evening max el      | -3322 Dec 20 j 13:58 | 20° $\mathfrak{Z}$ 45'37          | 46°31'48   |
| asc. node           | -3324 Jul 11 j 18:19 | 0° $\mathfrak{I}$ 22'32           |            | asc. node           | -3322 Dec 27 j 12:03 | 27° $\mathfrak{Z}$ 34'05          |            |
|                     | -3324 Aug 04 j 15:50 | 0° $\mathfrak{E}$                 |            |                     | -3322 Dec 30 j 01:57 | 0° $\approx$                      |            |
| morning set         | -3324 Aug 24 j 06:58 | 24° $\mathfrak{E}$ 36'02          |            | greatest brilliancy | -3321 Jan 28 j 23:02 | 21° $\approx$ 07'53               | -4.8m      |
|                     | -3324 Aug 28 j 13:58 | 0° $\mathfrak{Q}$                 |            | retrograde          | -3321 Feb 08 j 17:31 | 23° $\approx$ 18'09               |            |
|                     | -3324 Sep 21 j 08:51 | 0° $\mathfrak{M}$                 |            | evening set         | -3321 Feb 26 j 11:27 | 17° $\approx$ 13'45               |            |
|                     |                      |                                   |            | inferior conj       | -3321 Mar 02 j 03:14 | 14° $\approx$ 55'14               | 8°00'40    |



## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 17

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                |            |                     |                      |                                |            |
|---------------------|----------------------|--------------------------------|------------|---------------------|----------------------|--------------------------------|------------|
| minimum elong       | -3321 Mar 02 j 07:52 | 14° $\approx$ 47'48            | 8°00'15    | evening rise        | -3319 Aug 26 j 04:34 | 16° $\Omega$ 06'38             |            |
| min. Earth dist.    | -3321 Mar 02 j 01:56 | 14° $\approx$ 57'18            | 0.29153 AU |                     | -3319 Sep 06 j 06:10 | 0° $\mathbb{M}$                |            |
| morning rise        | -3321 Mar 06 j 04:25 | 12° $\approx$ 22'25            |            |                     | -3319 Sep 30 j 04:39 | 0° $\underline{\Omega}$        |            |
| direct              | -3321 Mar 23 j 15:31 | 6° $\approx$ 32'55             |            | desc. node          | -3319 Oct 03 j 02:21 | 3° $\underline{\Omega}$ 37'58  |            |
| greatest brilliancy | -3321 Apr 02 j 06:56 | 8° $\approx$ 13'44             | -4.7m      |                     | -3319 Oct 24 j 05:32 | 0° $\mathbb{M}$                |            |
| desc. node          | -3321 Apr 18 j 07:12 | 16° $\approx$ 47'30            |            |                     | -3319 Nov 17 j 10:19 | 0° $\mathcal{Z}$               |            |
|                     | -3321 May 04 j 15:48 | 0° $\mathcal{H}$               |            |                     | -3319 Dec 11 j 21:48 | 0° $\mathcal{Z}$               |            |
| morning max el      | -3321 May 11 j 09:37 | 6° $\mathcal{H}$ 14'30         | 45°48'11   |                     | -3318 Jan 05 j 22:12 | 0° $\approx$                   |            |
|                     | -3321 Jun 03 j 17:19 | 0° $\mathcal{Y}$               |            | asc. node           | -3318 Jan 23 j 23:49 | 20° $\approx$ 57'29            |            |
|                     | -3321 Jun 30 j 15:17 | 0° $\mathcal{B}$               |            |                     | -3318 Feb 01 j 00:42 | 0° $\mathcal{H}$               |            |
|                     | -3321 Jul 26 j 03:52 | 0° $\mathbb{I}$                |            | evening max el      | -3318 Mar 01 j 13:11 | 29° $\mathcal{H}$ 51'35        | 45°18'23   |
| asc. node           | -3321 Aug 09 j 06:08 | 17° $\mathbb{I}$ 01'49         |            |                     | -3318 Mar 01 j 16:41 | 0° $\mathcal{Y}$               |            |
|                     | -3321 Aug 19 j 20:14 | 0° $\mathcal{E}$               |            | greatest brilliancy | -3318 Apr 08 j 02:33 | 27° $\mathcal{Y}$ 17'10        | -4.7m      |
|                     | -3321 Sep 12 j 23:52 | 0° $\Omega$                    |            | retrograde          | -3318 Apr 18 j 21:37 | 29° $\mathcal{Y}$ 21'34        |            |
|                     | -3321 Oct 06 j 20:47 | 0° $\mathbb{M}$                |            | evening set         | -3318 May 04 j 01:16 | 24° $\mathcal{Y}$ 57'20        |            |
|                     | -3321 Oct 30 j 15:51 | 0° $\underline{\Omega}$        |            | inferior conj       | -3318 May 10 j 07:15 | 21° $\mathcal{Y}$ 14'00        | 1°15'46    |
| morning set         | -3321 Nov 08 j 19:29 | 11° $\underline{\Omega}$ 31'30 |            | minimum elong       | -3318 May 10 j 10:00 | 21° $\mathcal{Y}$ 09'44        | 1°15'02    |
|                     | -3321 Nov 23 j 12:14 | 0° $\mathbb{M}$                |            | min. Earth dist.    | -3318 May 10 j 21:25 | 20° $\mathcal{Y}$ 51'59        | 0.28937 AU |
| desc. node          | -3321 Nov 29 j 00:39 | 6° $\mathbb{M}$ 55'12          |            | desc. node          | -3318 May 15 j 18:51 | 17° $\mathcal{Y}$ 55'24        |            |
|                     | -3321 Dec 17 j 11:19 | 0° $\mathcal{Z}$               |            | morning rise        | -3318 May 16 j 18:19 | 17° $\mathcal{Y}$ 22'46        |            |
|                     |                      |                                |            | direct              | -3318 Jun 01 j 02:17 | 12° $\mathcal{Y}$ 53'54        |            |
| superior conj       | -3321 Dec 21 j 00:50 | 4° $\mathcal{Z}$ 26'54         | -0°48'18   | greatest brilliancy | -3318 Jun 12 j 00:36 | 15° $\mathcal{Y}$ 02'38        | -4.7m      |
| minimum elong       | -3321 Dec 20 j 14:07 | 3° $\mathcal{Z}$ 53'29         | 0°47'58    |                     | -3318 Jul 05 j 14:19 | 0° $\mathcal{B}$               |            |
| max. Earth dist.    | -3321 Dec 25 j 15:10 | 10° $\mathcal{Z}$ 10'51        | 1.71868 AU | morning max el      | -3318 Jul 20 j 12:42 | 13° $\mathcal{B}$ 34'26        | 46°11'58   |
|                     | -3320 Jan 10 j 13:24 | 0° $\mathcal{Z}$               |            |                     | -3318 Aug 05 j 12:43 | 0° $\mathbb{I}$                |            |
| evening rise        | -3320 Jan 30 j 10:33 | 24° $\mathcal{Z}$ 38'17        |            |                     | -3318 Sep 01 j 05:04 | 0° $\mathcal{E}$               |            |
|                     | -3320 Feb 03 j 18:43 | 0° $\approx$                   |            | asc. node           | -3318 Sep 05 j 17:52 | 5° $\mathcal{E}$ 19'10         |            |
| greatest brilliancy | -3320 Feb 20 j 06:30 | 20° $\approx$ 19'03            | -3.9m      |                     | -3318 Sep 26 j 07:39 | 0° $\Omega$                    |            |
|                     | -3320 Feb 28 j 03:54 | 0° $\mathcal{H}$               |            |                     | -3318 Oct 20 j 16:37 | 0° $\mathbb{M}$                |            |
| asc. node           | -3320 Mar 20 j 21:57 | 26° $\mathcal{H}$ 32'50        |            |                     | -3318 Nov 13 j 18:37 | 0° $\underline{\Omega}$        |            |
|                     | -3320 Mar 23 j 18:12 | 0° $\mathcal{Y}$               |            |                     | -3318 Dec 07 j 19:45 | 0° $\mathbb{M}$                |            |
|                     | -3320 Apr 17 j 15:08 | 0° $\mathcal{B}$               |            | desc. node          | -3318 Dec 26 j 12:47 | 23° $\mathbb{M}$ 16'41         |            |
|                     | -3320 May 12 j 20:56 | 0° $\mathbb{I}$                |            |                     | -3318 Dec 31 j 22:42 | 0° $\mathcal{Z}$               |            |
|                     | -3320 Jun 07 j 16:16 | 0° $\mathcal{E}$               |            | morning set         | -3317 Jan 24 j 15:16 | 29° $\mathcal{Z}$ 20'31        |            |
|                     | -3320 Jul 04 j 12:58 | 0° $\Omega$                    |            |                     | -3317 Jan 25 j 04:02 | 0° $\mathcal{Z}$               |            |
| desc. node          | -3320 Jul 10 j 16:12 | 6° $\Omega$ 34'20              |            |                     | -3317 Feb 18 j 11:23 | 0° $\approx$                   |            |
| evening max el      | -3320 Jul 26 j 05:54 | 22° $\Omega$ 29'46             | 46°45'55   |                     |                      |                                |            |
|                     | -3320 Aug 03 j 03:19 | 0° $\mathbb{M}$                |            | superior conj       | -3317 Mar 04 j 09:24 | 17° $\approx$ 08'10            | -1°19'50   |
| greatest brilliancy | -3320 Sep 05 j 08:33 | 22° $\mathbb{M}$ 46'52         | -4.9m      | minimum elong       | -3317 Mar 04 j 14:56 | 17° $\approx$ 25'12            | 1°19'50    |
| retrograde          | -3320 Sep 14 j 09:02 | 24° $\mathbb{M}$ 19'00         |            | max. Earth dist.    | -3317 Mar 05 j 23:06 | 19° $\approx$ 04'09            | 1.73390 AU |
| evening set         | -3320 Sep 30 j 11:45 | 19° $\mathbb{M}$ 18'08         |            |                     | -3317 Mar 14 j 20:25 | 0° $\mathcal{H}$               |            |
| inferior conj       | -3320 Oct 04 j 23:11 | 16° $\mathbb{M}$ 39'09         | -6°14'18   |                     | -3317 Apr 08 j 06:56 | 0° $\mathcal{Y}$               |            |
| minimum elong       | -3320 Oct 05 j 09:58 | 16° $\mathbb{M}$ 22'50         | 6°11'45    | evening rise        | -3317 Apr 10 j 09:02 | 2° $\mathcal{Y}$ 33'35         |            |
| min. Earth dist.    | -3320 Oct 05 j 06:57 | 16° $\mathbb{M}$ 27'24         | 0.26470 AU | asc. node           | -3317 Apr 18 j 10:11 | 12° $\mathcal{Y}$ 25'21        |            |
| morning rise        | -3320 Oct 10 j 07:57 | 13° $\mathbb{M}$ 30'20         |            |                     | -3317 May 02 j 18:48 | 0° $\mathcal{B}$               |            |
| direct              | -3320 Oct 25 j 06:30 | 9° $\mathbb{M}$ 03'04          |            |                     | -3317 May 27 j 08:04 | 0° $\mathbb{I}$                |            |
| asc. node           | -3320 Oct 31 j 14:38 | 9° $\mathbb{M}$ 50'41          |            |                     | -3317 Jun 20 j 23:27 | 0° $\mathcal{E}$               |            |
| greatest brilliancy | -3320 Nov 04 j 19:18 | 11° $\mathbb{M}$ 10'06         | -4.9m      |                     | -3317 Jul 15 j 18:52 | 0° $\Omega$                    |            |
|                     | -3320 Dec 02 j 01:00 | 0° $\underline{\Omega}$        |            | desc. node          | -3317 Aug 08 j 04:03 | 27° $\Omega$ 56'08             |            |
| morning max el      | -3320 Dec 14 j 20:16 | 12° $\underline{\Omega}$ 19'27 | 46°43'48   |                     | -3317 Aug 09 j 21:54 | 0° $\mathbb{M}$                |            |
|                     | -3320 Dec 31 j 14:26 | 0° $\mathbb{M}$                |            |                     | -3317 Sep 04 j 15:35 | 0° $\underline{\Omega}$        |            |
|                     | -3319 Jan 27 j 07:13 | 0° $\mathcal{Z}$               |            |                     | -3317 Oct 01 j 18:37 | 0° $\mathbb{M}$                |            |
| desc. node          | -3319 Feb 20 j 10:21 | 28° $\mathcal{Z}$ 02'43        |            | evening max el      | -3317 Oct 08 j 07:22 | 6° $\mathbb{M}$ 46'38          | 47°33'53   |
|                     | -3319 Feb 22 j 02:18 | 0° $\mathcal{Z}$               |            |                     | -3317 Nov 03 j 01:39 | 0° $\mathcal{Z}$               |            |
|                     | -3319 Mar 19 j 11:08 | 0° $\approx$                   |            | greatest brilliancy | -3317 Nov 17 j 20:28 | 8° $\mathcal{Z}$ 33'54         | -4.9m      |
|                     | -3319 Apr 13 j 13:04 | 0° $\mathcal{H}$               |            | retrograde          | -3317 Nov 28 j 09:32 | 10° $\mathcal{Z}$ 41'42        |            |
|                     | -3319 May 08 j 08:59 | 0° $\mathcal{Y}$               |            | asc. node           | -3317 Nov 29 j 02:27 | 10° $\mathcal{Z}$ 41'05        |            |
|                     | -3319 Jun 01 j 22:55 | 0° $\mathcal{B}$               |            | evening set         | -3317 Dec 13 j 08:59 | 6° $\mathcal{Z}$ 07'45         |            |
| morning set         | -3319 Jun 13 j 01:36 | 13° $\mathcal{B}$ 39'41        |            | min. Earth dist.    | -3317 Dec 18 j 01:50 | 3° $\mathcal{Z}$ 17'10         | 0.27241 AU |
| asc. node           | -3319 Jun 13 j 08:26 | 14° $\mathcal{B}$ 00'46        |            | inferior conj       | -3317 Dec 19 j 04:12 | 2° $\mathcal{Z}$ 35'43         | 4°45'17    |
|                     | -3319 Jun 26 j 06:52 | 0° $\mathbb{I}$                |            | minimum elong       | -3317 Dec 18 j 19:28 | 2° $\mathcal{Z}$ 49'28         | 4°42'56    |
| max. Earth dist.    | -3319 Jul 15 j 09:58 | 23° $\mathbb{I}$ 47'02         | 1.72170 AU |                     | -3317 Dec 23 j 09:47 | 30° $\mathcal{R}$ $\mathbb{M}$ |            |
|                     |                      |                                |            | morning rise        | -3317 Dec 24 j 06:52 | 29° $\mathbb{M}$ 29'39         |            |
| superior conj       | -3319 Jul 19 j 14:08 | 28° $\mathbb{I}$ 59'32         | 1°11'36    | direct              | -3316 Jan 08 j 17:57 | 24° $\mathbb{M}$ 46'13         |            |
| minimum elong       | -3319 Jul 19 j 06:03 | 28° $\mathbb{I}$ 34'16         | 1°11'31    | greatest brilliancy | -3316 Jan 17 j 13:28 | 26° $\mathbb{M}$ 14'37         | -4.8m      |
|                     | -3319 Jul 20 j 09:30 | 0° $\mathcal{E}$               |            |                     | -3316 Jan 26 j 00:40 | 0° $\mathcal{Z}$               |            |
|                     | -3319 Aug 13 j 08:30 | 0° $\Omega$                    |            | morning max el      | -3316 Feb 26 j 22:42 | 25° $\mathcal{Z}$ 34'21        | 46°05'51   |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3316 Mar 02 j 11:11 | 0°𐤆       |            |                     | -3314 Aug 22 j 13:59 | 0°𐤍       |            |
| desc. node          | -3316 Mar 19 j 21:54 | 18°𐤑02'28 |            | desc. node          | -3314 Sep 04 j 16:13 | 16°𐤒08'35 |            |
|                     | -3316 Mar 30 j 22:22 | 0°𐤔       |            |                     | -3314 Sep 15 j 23:01 | 0°𐤏       |            |
|                     | -3316 Apr 26 j 13:01 | 0°𐤕       |            |                     | -3314 Oct 10 j 13:50 | 0°𐤓       |            |
|                     | -3316 May 22 j 05:51 | 0°𐤖       |            |                     | -3314 Nov 04 j 15:57 | 0°𐤗       |            |
|                     | -3316 Jun 16 j 07:55 | 0°𐤘       |            |                     | -3314 Nov 30 j 19:53 | 0°𐤙       |            |
| asc. node           | -3316 Jul 10 j 20:24 | 29°𐤛54'34 |            | evening max el      | -3314 Dec 18 j 04:38 | 18°𐤙27'33 | 46°34'57   |
|                     | -3316 Jul 10 j 22:10 | 0°𐤚       |            | asc. node           | -3314 Dec 26 j 14:05 | 26°𐤙40'38 |            |
|                     | -3316 Aug 04 j 02:52 | 0°𐤛       |            |                     | -3314 Dec 30 j 04:16 | 0°𐤔       |            |
| morning set         | -3316 Aug 21 j 20:47 | 22°𐤛14'01 |            | greatest brilliancy | -3313 Jan 26 j 15:47 | 18°𐤔57'42 | -4.8m      |
|                     | -3316 Aug 28 j 00:57 | 0°𐤟       |            | retrograde          | -3313 Feb 06 j 10:44 | 21°𐤔08'55 |            |
|                     | -3316 Sep 20 j 19:52 | 0°𐤞       |            | evening set         | -3313 Feb 24 j 05:27 | 15°𐤔02'12 |            |
|                     |                      |           |            | inferior conj       | -3313 Feb 27 j 20:02 | 12°𐤔45'42 | 8°05'45    |
| superior conj       | -3316 Sep 30 j 04:42 | 11°𐤞49'26 | 1°03'15    | minimum elong       | -3313 Feb 28 j 00:04 | 12°𐤔39'15 | 8°05'25    |
| minimum elong       | -3316 Sep 30 j 15:47 | 12°𐤞24'26 | 1°02'56    | min. Earth dist.    | -3313 Feb 27 j 17:36 | 12°𐤔49'36 | 0.29124 AU |
| max. Earth dist.    | -3316 Oct 01 j 04:05 | 13°𐤞03'12 | 1.70896 AU | morning rise        | -3313 Mar 03 j 18:50 | 10°𐤔16'41 |            |
|                     | -3316 Oct 14 j 14:38 | 0°𐤏       |            | direct              | -3313 Mar 21 j 07:17 | 4°𐤔23'45  |            |
| desc. node          | -3316 Oct 30 j 14:39 | 20°𐤏08'13 |            | greatest brilliancy | -3313 Mar 30 j 22:06 | 6°𐤔04'12  | -4.7m      |
|                     | -3316 Nov 07 j 11:11 | 0°𐤓       |            | desc. node          | -3313 Apr 17 j 09:23 | 15°𐤔39'03 |            |
| evening rise        | -3316 Nov 11 j 09:02 | 4°𐤓54'17  |            |                     | -3313 May 04 j 16:34 | 0°𐤕       |            |
|                     | -3316 Dec 01 j 10:30 | 0°𐤗       |            | morning max el      | -3313 May 09 j 02:08 | 4°𐤕06'45  | 45°48'14   |
|                     | -3316 Dec 25 j 13:30 | 0°𐤙       |            |                     | -3313 Jun 03 j 09:25 | 0°𐤖       |            |
|                     | -3315 Jan 18 j 21:57 | 0°𐤔       |            |                     | -3313 Jun 30 j 04:40 | 0°𐤘       |            |
|                     | -3315 Feb 12 j 15:09 | 0°𐤕       |            |                     | -3313 Jul 25 j 16:04 | 0°𐤚       |            |
| asc. node           | -3315 Feb 20 j 11:53 | 9°𐤕25'02  |            | asc. node           | -3313 Aug 08 j 08:13 | 16°𐤚32'06 |            |
|                     | -3315 Mar 09 j 22:19 | 0°𐤖       |            |                     | -3313 Aug 19 j 07:52 | 0°𐤛       |            |
|                     | -3315 Apr 05 j 04:36 | 0°𐤘       |            |                     | -3313 Sep 12 j 11:14 | 0°𐤟       |            |
|                     | -3315 May 03 j 08:52 | 0°𐤚       |            |                     | -3313 Oct 06 j 08:01 | 0°𐤞       |            |
| evening max el      | -3315 May 11 j 13:21 | 8°𐤚00'46  | 45°22'51   |                     | -3313 Oct 30 j 03:00 | 0°𐤏       |            |
|                     | -3315 Jun 07 j 12:08 | 0°𐤛       |            | morning set         | -3313 Nov 06 j 05:12 | 8°𐤏55'58  |            |
| desc. node          | -3315 Jun 12 j 06:37 | 2°𐤛45'44  |            |                     | -3313 Nov 22 j 23:18 | 0°𐤓       |            |
| greatest brilliancy | -3315 Jun 19 j 09:44 | 5°𐤛53'11  | -4.7m      | desc. node          | -3313 Nov 28 j 02:49 | 6°𐤓27'21  |            |
| retrograde          | -3315 Jun 29 j 06:17 | 7°𐤛37'53  |            |                     | -3313 Dec 16 j 22:19 | 0°𐤗       |            |
| evening set         | -3315 Jul 15 j 18:22 | 2°𐤛34'08  |            |                     |                      |           |            |
| inferior conj       | -3315 Jul 20 j 09:33 | 29°𐤚49'27 | -7°35'42   | superior conj       | -3313 Dec 18 j 10:46 | 1°𐤗53'50  | -0°45'03   |
| minimum elong       | -3315 Jul 20 j 00:15 | 0°𐤙03'35  | 7°34'09    | minimum elong       | -3313 Dec 18 j 00:24 | 1°𐤗21'29  | 0°44'44    |
|                     | -3315 Jul 20 j 02:37 | 30°𐤕𐤚     |            | max. Earth dist.    | -3313 Dec 22 j 23:50 | 7°𐤗34'07  | 1.71811 AU |
| min. Earth dist.    | -3315 Jul 20 j 17:40 | 29°𐤚37'05 | 0.27826 AU |                     | -3312 Jan 10 j 00:21 | 0°𐤙       |            |
| morning rise        | -3315 Jul 24 j 05:47 | 27°𐤚30'51 |            | evening rise        | -3312 Jan 27 j 23:57 | 22°𐤙17'40 |            |
| direct              | -3315 Aug 10 j 13:53 | 21°𐤚51'13 |            | greatest brilliancy | -3312 Feb 01 j 03:47 | 27°𐤙26'07 | -3.9m      |
| greatest brilliancy | -3315 Aug 21 j 14:18 | 24°𐤚04'26 | -4.9m      |                     | -3312 Feb 03 j 05:37 | 0°𐤔       |            |
|                     | -3315 Sep 01 j 16:52 | 0°𐤛       |            |                     | -3312 Feb 27 j 14:53 | 0°𐤕       |            |
| morning max el      | -3315 Sep 30 j 02:03 | 24°𐤛39'57 | 46°47'54   | asc. node           | -3312 Mar 20 j 00:06 | 26°𐤕05'23 |            |
| asc. node           | -3315 Oct 03 j 05:21 | 27°𐤛53'32 |            |                     | -3312 Mar 23 j 05:26 | 0°𐤖       |            |
|                     | -3315 Oct 05 j 05:44 | 0°𐤟       |            |                     | -3312 Apr 17 j 02:51 | 0°𐤘       |            |
|                     | -3315 Nov 01 j 03:57 | 0°𐤞       |            |                     | -3312 May 12 j 09:33 | 0°𐤚       |            |
|                     | -3315 Nov 26 j 11:23 | 0°𐤏       |            |                     | -3312 Jun 07 j 06:31 | 0°𐤛       |            |
|                     | -3315 Dec 21 j 05:51 | 0°𐤓       |            |                     | -3312 Jul 04 j 06:40 | 0°𐤟       |            |
|                     | -3314 Jan 14 j 20:47 | 0°𐤗       |            | desc. node          | -3312 Jul 09 j 18:13 | 5°𐤟49'41  |            |
| desc. node          | -3314 Jan 23 j 00:36 | 9°𐤗56'51  |            | evening max el      | -3312 Jul 23 j 19:28 | 20°𐤟07'54 | 46°42'52   |
|                     | -3314 Feb 08 j 11:13 | 0°𐤙       |            |                     | -3312 Aug 03 j 07:56 | 0°𐤞       |            |
|                     | -3314 Mar 05 j 01:31 | 0°𐤔       |            | greatest brilliancy | -3312 Sep 02 j 20:05 | 20°𐤞17'26 | -4.9m      |
|                     | -3314 Mar 29 j 15:07 | 0°𐤕       |            | retrograde          | -3312 Sep 11 j 21:23 | 21°𐤞49'42 |            |
| morning set         | -3314 Apr 05 j 00:13 | 7°𐤕48'04  |            | evening set         | -3312 Sep 28 j 03:03 | 16°𐤞43'57 |            |
|                     | -3314 Apr 23 j 03:21 | 0°𐤖       |            | inferior conj       | -3312 Oct 02 j 11:06 | 14°𐤞09'45 | -6°31'35   |
| max. Earth dist.    | -3314 May 08 j 10:55 | 18°𐤖47'56 | 1.73604 AU | minimum elong       | -3312 Oct 02 j 21:56 | 13°𐤞53'21 | 6°29'07    |
|                     |                      |           |            | min. Earth dist.    | -3312 Oct 02 j 19:21 | 13°𐤞57'17 | 0.26504 AU |
| superior conj       | -3314 May 11 j 00:48 | 21°𐤖58'07 | -0°11'31   | morning rise        | -3312 Oct 07 j 16:40 | 11°𐤞05'37 |            |
| minimum elong       | -3314 May 11 j 03:02 | 22°𐤖05'00 | 0°11'21    | direct              | -3312 Oct 22 j 19:33 | 6°𐤞33'18  |            |
| behind sun begin    | -3314 May 10 j 11:30 | 21°𐤖17'13 |            | asc. node           | -3312 Oct 30 j 16:55 | 7°𐤞46'28  |            |
| behind sun end      | -3314 May 11 j 18:35 | 22°𐤖52'47 |            | greatest brilliancy | -3312 Nov 02 j 08:10 | 8°𐤞40'39  | -4.9m      |
| asc. node           | -3314 May 15 j 22:30 | 27°𐤖59'57 |            |                     | -3312 Dec 02 j 06:18 | 0°𐤏       |            |
|                     | -3314 May 17 j 13:32 | 0°𐤘       |            | morning max el      | -3312 Dec 12 j 10:46 | 9°𐤏56'20  | 46°44'45   |
|                     | -3314 Jun 10 j 21:19 | 0°𐤚       |            |                     | -3312 Dec 31 j 08:37 | 0°𐤓       |            |
| evening rise        | -3314 Jun 15 j 15:39 | 5°𐤚53'17  |            |                     | -3311 Jan 26 j 21:55 | 0°𐤗       |            |
|                     | -3314 Jul 05 j 03:04 | 0°𐤛       |            | desc. node          | -3311 Feb 19 j 12:26 | 27°𐤗30'23 |            |
|                     | -3314 Jul 29 j 08:01 | 0°𐤟       |            |                     | -3311 Feb 21 j 15:19 | 0°𐤙       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3311 Mar 18 j 23:08 | 0°♊       |            | greatest brilliancy | -3309 Nov 15 j 12:33 | 6°♊11'34  | -4.9m      |
|                     | -3311 Apr 13 j 00:27 | 0°♋       |            | retrograde          | -3309 Nov 25 j 23:35 | 8°♊17'24  |            |
|                     | -3311 May 07 j 20:00 | 0°♌       |            | asc. node           | -3309 Nov 28 j 04:27 | 8°♊11'20  |            |
|                     | -3311 Jun 01 j 09:44 | 0°♍       |            | evening set         | -3309 Dec 10 j 21:14 | 3°♊47'14  |            |
| morning set         | -3311 Jun 10 j 20:01 | 11°♋35'26 |            | min. Earth dist.    | -3309 Dec 15 j 16:40 | 0°♊53'06  | 0.27171 AU |
| asc. node           | -3311 Jun 12 j 10:30 | 13°♋33'59 |            | inferior conj       | -3309 Dec 16 j 18:15 | 0°♊12'50  | 4°26'41    |
|                     | -3311 Jun 25 j 17:37 | 0°♎       |            | minimum elong       | -3309 Dec 16 j 09:52 | 0°♊26'02  | 4°24'22    |
| max. Earth dist.    | -3311 Jul 13 j 00:48 | 21°♎30'08 | 1.72227 AU |                     | -3309 Dec 17 j 02:25 | 30°♋♌     |            |
|                     |                      |           |            | morning rise        | -3309 Dec 21 j 23:23 | 27°♌03'11 |            |
| superior conj       | -3311 Jul 17 j 07:17 | 26°♎49'39 | 1°09'51    | direct              | -3308 Jan 06 j 07:02 | 22°♌24'34 |            |
| minimum elong       | -3311 Jul 16 j 22:57 | 26°♎23'39 | 1°09'44    | greatest brilliancy | -3308 Jan 15 j 04:02 | 23°♌53'49 | -4.8m      |
|                     | -3311 Jul 19 j 20:16 | 0°♏       |            |                     | -3308 Jan 27 j 12:59 | 0°♊       |            |
|                     | -3311 Aug 12 j 19:22 | 0°♐       |            | morning max el      | -3308 Feb 24 j 11:51 | 23°♊14'02 | 46°06'59   |
| evening rise        | -3311 Aug 23 j 18:19 | 13°♐44'46 |            |                     | -3308 Mar 02 j 08:19 | 0°♑       |            |
|                     | -3311 Sep 05 j 17:13 | 0°♒       |            | desc. node          | -3308 Mar 19 j 00:06 | 17°♑22'20 |            |
|                     | -3311 Sep 29 j 15:56 | 0°♓       |            |                     | -3308 Mar 30 j 13:56 | 0°♊       |            |
| desc. node          | -3311 Oct 02 j 04:32 | 3°♓09'26  |            |                     | -3308 Apr 26 j 02:22 | 0°♋       |            |
|                     | -3311 Oct 23 j 17:06 | 0°♈       |            |                     | -3308 May 21 j 18:05 | 0°♌       |            |
|                     | -3311 Nov 16 j 22:13 | 0°♉       |            |                     | -3308 Jun 15 j 19:32 | 0°♍       |            |
|                     | -3311 Dec 11 j 10:13 | 0°♊       |            | asc. node           | -3308 Jul 09 j 22:24 | 29°♋26'04 |            |
|                     | -3310 Jan 05 j 11:36 | 0°♋       |            |                     | -3308 Jul 10 j 09:26 | 0°♎       |            |
| asc. node           | -3310 Jan 23 j 01:53 | 20°♋21'31 |            |                     | -3308 Aug 03 j 14:00 | 0°♏       |            |
|                     | -3310 Jan 31 j 16:20 | 0°♌       |            | morning set         | -3308 Aug 19 j 10:46 | 19°♏52'13 |            |
| evening max el      | -3310 Feb 27 j 05:25 | 27°♌42'04 | 45°19'53   |                     | -3308 Aug 27 j 12:04 | 0°♐       |            |
|                     | -3310 Mar 01 j 15:14 | 0°♍       |            |                     | -3308 Sep 20 j 07:01 | 0°♑       |            |
| greatest brilliancy | -3310 Apr 05 j 19:11 | 25°♍09'55 | -4.7m      |                     |                      |           |            |
| retrograde          | -3310 Apr 16 j 13:37 | 27°♍13'41 |            | superior conj       | -3308 Sep 27 j 15:45 | 9°♑17'41  | 1°05'44    |
| evening set         | -3310 May 01 j 19:04 | 22°♍47'35 |            | minimum elong       | -3308 Sep 28 j 02:37 | 9°♑51'58  | 1°05'26    |
| inferior conj       | -3310 May 07 j 23:38 | 19°♍05'38 | 1°34'58    | max. Earth dist.    | -3308 Sep 28 j 06:01 | 10°♑02'44 | 1.70904 AU |
| minimum elong       | -3310 May 08 j 03:02 | 19°♍00'19 | 1°34'02    |                     | -3308 Oct 14 j 01:49 | 0°♓       |            |
| min. Earth dist.    | -3310 May 08 j 13:57 | 18°♍43'19 | 0.28964 AU | desc. node          | -3308 Oct 29 j 16:47 | 19°♓39'43 |            |
| morning rise        | -3310 May 14 j 10:38 | 15°♍13'57 |            |                     | -3308 Nov 06 j 22:24 | 0°♈       |            |
| desc. node          | -3310 May 14 j 21:02 | 14°♍59'54 |            | evening rise        | -3308 Nov 08 j 18:00 | 2°♈16'41  |            |
| direct              | -3310 May 29 j 19:07 | 10°♍45'11 |            |                     | -3308 Nov 30 j 21:47 | 0°♉       |            |
| greatest brilliancy | -3310 Jun 09 j 16:06 | 12°♍52'28 | -4.7m      |                     | -3308 Dec 25 j 00:54 | 0°♊       |            |
|                     | -3310 Jul 05 j 20:12 | 0°♋       |            |                     | -3307 Jan 18 j 09:37 | 0°♋       |            |
| morning max el      | -3310 Jul 18 j 04:06 | 11°♋21'20 | 46°10'41   |                     | -3307 Feb 12 j 03:19 | 0°♌       |            |
|                     | -3310 Aug 05 j 06:10 | 0°♎       |            | asc. node           | -3307 Feb 19 j 14:00 | 8°♌54'26  |            |
|                     | -3310 Aug 31 j 19:15 | 0°♏       |            |                     | -3307 Mar 09 j 11:28 | 0°♍       |            |
| asc. node           | -3310 Sep 04 j 20:00 | 4°♏44'31  |            |                     | -3307 Apr 04 j 19:51 | 0°♎       |            |
|                     | -3310 Sep 25 j 20:27 | 0°♐       |            |                     | -3307 May 03 j 05:35 | 0°♎       |            |
|                     | -3310 Oct 20 j 04:43 | 0°♑       |            | evening max el      | -3307 May 09 j 03:03 | 5°♎43'31  | 45°21'15   |
|                     | -3310 Nov 13 j 06:21 | 0°♒       |            |                     | -3307 Jun 08 j 23:37 | 0°♏       |            |
|                     | -3310 Dec 07 j 07:13 | 0°♓       |            | desc. node          | -3307 Jun 11 j 08:38 | 1°♏14'00  |            |
| desc. node          | -3310 Dec 25 j 14:45 | 22°♎47'42 |            | greatest brilliancy | -3307 Jun 16 j 21:51 | 3°♏33'40  | -4.7m      |
|                     | -3310 Dec 31 j 09:59 | 0°♊       |            | retrograde          | -3307 Jun 26 j 19:54 | 5°♏19'57  |            |
| morning set         | -3309 Jan 22 j 03:50 | 26°♊56'43 |            | evening set         | -3307 Jul 13 j 04:25 | 0°♑20'38  |            |
|                     | -3309 Jan 24 j 15:07 | 0°♋       |            |                     | -3307 Jul 13 j 19:03 | 30°♋♌     |            |
|                     | -3309 Feb 17 j 22:20 | 0°♌       |            | inferior conj       | -3307 Jul 17 j 23:31 | 27°♎30'43 | -7°23'41   |
|                     |                      |           |            | minimum elong       | -3307 Jul 17 j 13:52 | 27°♎45'22 | 7°21'59    |
| superior conj       | -3309 Mar 02 j 01:28 | 14°♌56'24 | -1°20'48   | min. Earth dist.    | -3307 Jul 18 j 07:39 | 27°♎18'21 | 0.27872 AU |
| minimum elong       | -3309 Mar 02 j 06:25 | 15°♌11'36 | 1°20'49    | morning rise        | -3307 Jul 21 j 22:55 | 25°♎07'38 |            |
| max. Earth dist.    | -3309 Mar 03 j 19:59 | 17°♌07'13 | 1.73350 AU | direct              | -3307 Aug 08 j 04:13 | 19°♎31'19 |            |
|                     | -3309 Mar 14 j 07:17 | 0°♋       |            | greatest brilliancy | -3307 Aug 19 j 05:46 | 21°♎45'35 | -4.9m      |
|                     | -3309 Apr 07 j 17:49 | 0°♌       |            |                     | -3307 Sep 02 j 16:28 | 0°♏       |            |
| evening rise        | -3309 Apr 08 j 03:08 | 0°♍28'33  |            | morning max el      | -3307 Sep 27 j 16:19 | 22°♏16'48 | 46°47'12   |
| asc. node           | -3309 Apr 17 j 12:22 | 11°♍58'37 |            | asc. node           | -3307 Oct 02 j 07:34 | 27°♏03'53 |            |
|                     | -3309 May 02 j 05:50 | 0°♎       |            |                     | -3307 Oct 05 j 02:16 | 0°♐       |            |
|                     | -3309 May 26 j 19:25 | 0°♎       |            |                     | -3307 Oct 31 j 19:44 | 0°♑       |            |
|                     | -3309 Jun 20 j 11:18 | 0°♏       |            |                     | -3307 Nov 26 j 01:13 | 0°♒       |            |
|                     | -3309 Jul 15 j 07:30 | 0°♐       |            |                     | -3307 Dec 20 j 18:37 | 0°♓       |            |
| desc. node          | -3309 Aug 07 j 06:10 | 27°♐21'48 |            |                     | -3306 Jan 14 j 08:52 | 0°♊       |            |
|                     | -3309 Aug 09 j 11:43 | 0°♑       |            | desc. node          | -3306 Jan 22 j 02:43 | 9°♊26'58  |            |
|                     | -3309 Sep 04 j 07:32 | 0°♒       |            |                     | -3306 Feb 07 j 22:50 | 0°♋       |            |
|                     | -3309 Oct 01 j 15:31 | 0°♓       |            |                     | -3306 Mar 04 j 12:49 | 0°♌       |            |
| evening max el      | -3309 Oct 05 j 21:55 | 4°♓23'49  | 47°34'01   |                     | -3306 Mar 29 j 02:13 | 0°♍       |            |
|                     | -3309 Nov 04 j 01:32 | 0°♊       |            | morning set         | -3306 Apr 02 j 18:18 | 5°♋42'46  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3306 Apr 22 j 14:19 | 0°♿       |            | inferior conj       | -3304 Sep 29 j 22:59 | 11°♎39'16 | -6°47'59   |
| max. Earth dist.    | -3306 May 06 j 09:27 | 16°♿56'03 | 1.73629 AU | minimum elong       | -3304 Sep 30 j 09:47 | 11°♎22'55 | 6°45'39    |
|                     |                      |           |            | min. Earth dist.    | -3304 Sep 30 j 07:39 | 11°♎26'09 | 0.26533 AU |
| superior conj       | -3306 May 08 j 19:38 | 19°♿54'50 | -0°14'32   | morning rise        | -3304 Oct 05 j 01:04 | 8°♎39'57  |            |
| minimum elong       | -3306 May 08 j 22:27 | 20°♿03'30 | 0°14'21    | direct              | -3304 Oct 20 j 08:34 | 4°♎02'43  |            |
| behind sun begin    | -3306 May 08 j 13:08 | 19°♿34'50 |            | asc. node           | -3304 Oct 29 j 18:57 | 5°♎46'04  |            |
| behind sun end      | -3306 May 09 j 07:47 | 20°♿32'10 |            | greatest brilliancy | -3304 Oct 30 j 20:47 | 6°♎09'51  | -4.9m      |
| asc. node           | -3306 May 15 j 00:30 | 27°♿32'27 |            |                     | -3304 Dec 02 j 10:09 | 0°♎       |            |
|                     | -3306 May 17 j 00:29 | 0°♿       |            | morning max el      | -3304 Dec 10 j 00:27 | 7°♎30'11  | 46°45'35   |
|                     | -3306 Jun 10 j 08:21 | 0°♿       |            |                     | -3304 Dec 31 j 02:41 | 0°♎       |            |
| evening rise        | -3306 Jun 13 j 10:37 | 3°♿49'24  |            |                     | -3303 Jan 26 j 12:46 | 0°♎       |            |
|                     | -3306 Jul 04 j 14:19 | 0°♿       |            | desc. node          | -3303 Feb 18 j 14:34 | 26°♎57'27 |            |
|                     | -3306 Jul 28 j 19:35 | 0°♿       |            |                     | -3303 Feb 21 j 04:32 | 0°♿       |            |
|                     | -3306 Aug 22 j 01:58 | 0°♿       |            |                     | -3303 Mar 18 j 11:23 | 0°♿       |            |
| desc. node          | -3306 Sep 03 j 18:24 | 15°♎37'33 |            |                     | -3303 Apr 12 j 12:05 | 0°♿       |            |
|                     | -3306 Sep 15 j 11:33 | 0°♎       |            |                     | -3303 May 07 j 07:17 | 0°♿       |            |
|                     | -3306 Oct 10 j 03:10 | 0°♎       |            |                     | -3303 May 31 j 20:51 | 0°♿       |            |
|                     | -3306 Nov 04 j 06:37 | 0°♎       |            | morning set         | -3303 Jun 08 j 14:26 | 9°♎30'20  |            |
|                     | -3306 Nov 30 j 13:29 | 0°♿       |            | asc. node           | -3303 Jun 11 j 12:34 | 13°♎06'16 |            |
| evening max el      | -3306 Dec 15 j 20:21 | 16°♿11'18 | 46°38'11   |                     | -3303 Jun 25 j 04:41 | 0°♿       |            |
| asc. node           | -3306 Dec 25 j 16:13 | 25°♿45'33 |            | max. Earth dist.    | -3303 Jul 10 j 14:24 | 19°♿08'26 | 1.72293 AU |
|                     | -3306 Dec 30 j 08:33 | 0°♿       |            |                     |                      |           |            |
| greatest brilliancy | -3305 Jan 24 j 07:56 | 16°♿46'02 | -4.8m      | superior conj       | -3303 Jul 15 j 00:22 | 24°♿38'36 | 1°07'58    |
| retrograde          | -3305 Feb 04 j 04:14 | 18°♿58'43 |            | minimum elong       | -3303 Jul 14 j 15:50 | 24°♿12'01 | 1°07'51    |
| evening set         | -3305 Feb 21 j 23:10 | 12°♿50'06 |            |                     | -3303 Jul 19 j 07:24 | 0°♿       |            |
| inferior conj       | -3305 Feb 25 j 12:48 | 10°♿35'09 | 8°10'02    |                     | -3303 Aug 12 j 06:37 | 0°♿       |            |
| minimum elong       | -3305 Feb 25 j 16:12 | 10°♿29'42 | 8°09'46    | evening rise        | -3303 Aug 21 j 07:57 | 11°♿21'20 |            |
| min. Earth dist.    | -3305 Feb 25 j 08:49 | 10°♿41'30 | 0.29093 AU |                     | -3303 Sep 05 j 04:38 | 0°♿       |            |
| morning rise        | -3305 Mar 01 j 09:24 | 8°♿09'41  |            |                     | -3303 Sep 29 j 03:35 | 0°♎       |            |
| direct              | -3305 Mar 18 j 23:29 | 2°♿13'42  |            | desc. node          | -3303 Oct 01 j 06:37 | 2°♎39'31  |            |
| greatest brilliancy | -3305 Mar 28 j 12:40 | 3°♿53'11  | -4.7m      |                     | -3303 Oct 23 j 04:59 | 0°♎       |            |
| desc. node          | -3305 Apr 16 j 11:32 | 14°♿31'32 |            |                     | -3303 Nov 16 j 10:25 | 0°♎       |            |
|                     | -3305 May 04 j 16:36 | 0°♿       |            |                     | -3303 Dec 10 j 22:57 | 0°♿       |            |
| morning max el      | -3305 May 06 j 19:17 | 1°♿59'34  | 45°48'04   |                     | -3302 Jan 05 j 01:22 | 0°♿       |            |
|                     | -3305 Jun 03 j 01:42 | 0°♿       |            | asc. node           | -3302 Jan 22 j 04:04 | 19°♿44'51 |            |
|                     | -3305 Jun 29 j 18:24 | 0°♿       |            |                     | -3302 Jan 31 j 08:30 | 0°♿       |            |
|                     | -3305 Jul 25 j 04:38 | 0°♿       |            | evening max el      | -3302 Feb 24 j 21:04 | 25°♿30'17 | 45°21'29   |
| asc. node           | -3305 Aug 07 j 10:25 | 16°♿01'36 |            |                     | -3302 Mar 01 j 15:05 | 0°♿       |            |
|                     | -3305 Aug 18 j 19:51 | 0°♿       |            | greatest brilliancy | -3302 Apr 03 j 12:11 | 23°♿02'40 | -4.7m      |
|                     | -3305 Sep 11 j 22:54 | 0°♿       |            | retrograde          | -3302 Apr 14 j 05:29 | 25°♿05'45 |            |
|                     | -3305 Oct 05 j 19:32 | 0°♿       |            | evening set         | -3302 Apr 29 j 13:06 | 20°♿37'27 |            |
|                     | -3305 Oct 29 j 14:25 | 0°♎       |            | inferior conj       | -3302 May 05 j 16:12 | 16°♿57'15 | 1°53'47    |
| morning set         | -3305 Nov 03 j 15:01 | 6°♎19'49  |            | minimum elong       | -3302 May 05 j 20:14 | 16°♿50'56 | 1°52'41    |
|                     | -3305 Nov 22 j 10:40 | 0°♎       |            | min. Earth dist.    | -3302 May 06 j 06:52 | 16°♿34'19 | 0.28992 AU |
| desc. node          | -3305 Nov 27 j 04:45 | 5°♎57'50  |            | morning rise        | -3302 May 12 j 02:57 | 13°♿05'17 |            |
|                     |                      |           |            | desc. node          | -3302 May 13 j 22:58 | 12°♿07'33 |            |
| superior conj       | -3305 Dec 15 j 20:34 | 29°♎19'11 | -0°41'42   | direct              | -3302 May 27 j 11:36 | 8°♿36'22  |            |
| minimum elong       | -3305 Dec 15 j 10:40 | 28°♎48'16 | 0°41'23    | greatest brilliancy | -3302 Jun 07 j 08:13 | 10°♿42'48 | -4.7m      |
|                     | -3305 Dec 16 j 09:38 | 0°♎       |            |                     | -3302 Jul 06 j 00:22 | 0°♿       |            |
| max. Earth dist.    | -3305 Dec 20 j 09:49 | 5°♎00'19  | 1.71755 AU | morning max el      | -3302 Jul 15 j 18:50 | 9°♎06'03  | 46°09'17   |
|                     | -3304 Jan 09 j 11:36 | 0°♿       |            |                     | -3302 Aug 04 j 23:30 | 0°♿       |            |
| evening rise        | -3304 Jan 25 j 13:18 | 19°♿55'51 |            |                     | -3302 Aug 31 j 09:35 | 0°♿       |            |
| greatest brilliancy | -3304 Jan 30 j 04:43 | 25°♿40'16 | -3.9m      | asc. node           | -3302 Sep 03 j 22:09 | 4°♿09'14  |            |
|                     | -3304 Feb 02 j 16:50 | 0°♿       |            |                     | -3302 Sep 25 j 09:30 | 0°♿       |            |
|                     | -3304 Feb 27 j 02:10 | 0°♿       |            |                     | -3302 Oct 19 j 17:06 | 0°♿       |            |
| asc. node           | -3304 Mar 19 j 02:17 | 25°♿37'05 |            |                     | -3302 Nov 12 j 18:20 | 0°♎       |            |
|                     | -3304 Mar 22 j 16:59 | 0°♿       |            |                     | -3302 Dec 06 j 18:54 | 0°♎       |            |
|                     | -3304 Apr 16 j 14:58 | 0°♿       |            | desc. node          | -3302 Dec 24 j 16:55 | 22°♎18'44 |            |
|                     | -3304 May 11 j 22:39 | 0°♿       |            |                     | -3302 Dec 30 j 21:25 | 0°♎       |            |
|                     | -3304 Jun 06 j 21:24 | 0°♿       |            | morning set         | -3301 Jan 19 j 16:12 | 24°♎31'39 |            |
|                     | -3304 Jul 04 j 01:19 | 0°♿       |            |                     | -3301 Jan 24 j 02:21 | 0°♿       |            |
| desc. node          | -3304 Jul 08 j 20:22 | 5°♎03'16  |            |                     | -3301 Feb 17 j 09:25 | 0°♿       |            |
| evening max el      | -3304 Jul 21 j 09:37 | 17°♎46'09 | 46°39'47   |                     |                      |           |            |
|                     | -3304 Aug 03 j 15:15 | 0°♿       |            | superior conj       | -3301 Feb 27 j 17:32 | 12°♿44'08 | -1°21'38   |
| greatest brilliancy | -3304 Aug 31 j 07:41 | 17°♎47'01 | -4.9m      | minimum elong       | -3301 Feb 27 j 21:52 | 12°♿57'26 | 1°21'41    |
| retrograde          | -3304 Sep 09 j 09:24 | 19°♎19'03 |            | max. Earth dist.    | -3301 Mar 01 j 15:21 | 15°♿05'08 | 1.73309 AU |
| evening set         | -3304 Sep 25 j 18:23 | 14°♎08'45 |            |                     | -3301 Mar 13 j 18:18 | 0°♿       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                            |            |                     |  |                      |                       |            |  |
|---------------------|----------------------|----------------------------|------------|---------------------|--|----------------------|-----------------------|------------|--|
| evening rise        | -3301 Apr 05 j 21:17 | 28° $\text{H}$ 23'12       |            |                     |  | -3299 Sep 03 j 09:30 | 0° $\text{G}$         |            |  |
|                     | -3301 Apr 07 j 04:51 | 0° $\text{Y}$              |            | morning max el      |  | -3299 Sep 25 j 07:19 | 19° $\text{G}$ 56'30  | 46°46'20   |  |
| asc. node           | -3301 Apr 16 j 14:23 | 11° $\text{Y}$ 30'55       |            | asc. node           |  | -3299 Oct 01 j 09:38 | 26° $\text{G}$ 15'20  |            |  |
|                     | -3301 May 01 j 17:00 | 0° $\text{B}$              |            |                     |  | -3299 Oct 04 j 21:56 | 0° $\text{Q}$         |            |  |
|                     | -3301 May 26 j 06:53 | 0° $\text{II}$             |            |                     |  | -3299 Oct 31 j 11:07 | 0° $\text{M}$         |            |  |
|                     | -3301 Jun 19 j 23:18 | 0° $\text{G}$              |            |                     |  | -3299 Nov 25 j 14:50 | 0° $\text{U}$         |            |  |
|                     | -3301 Jul 14 j 20:19 | 0° $\text{Q}$              |            |                     |  | -3299 Dec 20 j 07:16 | 0° $\text{M}$         |            |  |
| desc. node          | -3301 Aug 06 j 08:18 | 26° $\text{Q}$ 46'51       |            |                     |  | -3298 Jan 13 j 20:53 | 0° $\text{J}$         |            |  |
|                     | -3301 Aug 09 j 01:52 | 0° $\text{M}$              |            | desc. node          |  | -3298 Jan 21 j 04:54 | 8° $\text{J}$ 57'28   |            |  |
|                     | -3301 Sep 03 j 24:00 | 0° $\text{U}$              |            |                     |  | -3298 Feb 07 j 10:23 | 0° $\text{Z}$         |            |  |
|                     | -3301 Oct 01 j 13:31 | 0° $\text{M}$              |            |                     |  | -3298 Mar 04 j 00:00 | 0° $\text{A}$         |            |  |
| evening max el      | -3301 Oct 03 j 11:38 | 1° $\text{M}$ 57'53        | 47°33'58   |                     |  | -3298 Mar 28 j 13:08 | 0° $\text{H}$         |            |  |
|                     | -3301 Nov 05 j 11:41 | 0° $\text{J}$              |            | morning set         |  | -3298 Mar 31 j 12:13 | 3° $\text{H}$ 37'23   |            |  |
| greatest brilliancy | -3301 Nov 13 j 04:36 | 3° $\text{J}$ 47'38        | -4.9m      |                     |  | -3298 Apr 22 j 01:06 | 0° $\text{Y}$         |            |  |
| retrograde          | -3301 Nov 23 j 13:18 | 5° $\text{J}$ 51'34        |            | max. Earth dist.    |  | -3298 May 04 j 09:10 | 15° $\text{Y}$ 08'25  | 1.73649 AU |  |
| asc. node           | -3301 Nov 27 j 06:33 | 5° $\text{J}$ 34'14        |            |                     |  |                      |                       |            |  |
| evening set         | -3301 Dec 08 j 09:20 | 1° $\text{J}$ 24'42        |            | superior conj       |  | -3298 May 06 j 14:28 | 17° $\text{Y}$ 52'08  | -0°17'31   |  |
|                     | -3301 Dec 10 j 19:24 | 30° $\text{K}$ $\text{M}$  |            | minimum elong       |  | -3298 May 06 j 17:52 | 18° $\text{Y}$ 02'33  | 0°17'20    |  |
| min. Earth dist.    | -3301 Dec 13 j 07:28 | 28° $\text{M}$ 27'09       | 0.27098 AU | asc. node           |  | -3298 May 14 j 02:36 | 27° $\text{Y}$ 05'47  |            |  |
| inferior conj       | -3301 Dec 14 j 08:03 | 27° $\text{M}$ 48'31       | 4°07'27    |                     |  | -3298 May 16 j 11:15 | 0° $\text{B}$         |            |  |
| minimum elong       | -3301 Dec 14 j 00:04 | 28° $\text{M}$ 01'05       | 4°05'10    |                     |  | -3298 Jun 09 j 19:14 | 0° $\text{II}$        |            |  |
| morning rise        | -3301 Dec 19 j 15:35 | 24° $\text{M}$ 35'30       |            | evening rise        |  | -3298 Jun 11 j 05:51 | 1° $\text{II}$ 46'54  |            |  |
| direct              | -3300 Jan 03 j 19:28 | 20° $\text{M}$ 01'18       |            |                     |  | -3298 Jul 04 j 01:25 | 0° $\text{G}$         |            |  |
| greatest brilliancy | -3300 Jan 12 j 18:46 | 21° $\text{M}$ 32'09       | -4.8m      |                     |  | -3298 Jul 28 j 06:58 | 0° $\text{Q}$         |            |  |
|                     | -3300 Jan 28 j 15:05 | 0° $\text{J}$              |            |                     |  | -3298 Aug 21 j 13:44 | 0° $\text{M}$         |            |  |
| morning max el      | -3300 Feb 22 j 01:01 | 20° $\text{J}$ 53'15       | 46°08'19   | desc. node          |  | -3298 Sep 02 j 20:29 | 15° $\text{M}$ 06'57  |            |  |
|                     | -3300 Mar 02 j 04:51 | 0° $\text{Z}$              |            |                     |  | -3298 Sep 14 j 23:51 | 0° $\text{U}$         |            |  |
| desc. node          | -3300 Mar 18 j 02:13 | 16° $\text{Z}$ 42'20       |            |                     |  | -3298 Oct 09 j 16:18 | 0° $\text{M}$         |            |  |
|                     | -3300 Mar 30 j 05:18 | 0° $\text{A}$              |            |                     |  | -3298 Nov 03 j 21:11 | 0° $\text{J}$         |            |  |
|                     | -3300 Apr 25 j 15:38 | 0° $\text{H}$              |            |                     |  | -3298 Nov 30 j 07:16 | 0° $\text{Z}$         |            |  |
|                     | -3300 May 21 j 06:16 | 0° $\text{Y}$              |            | evening max el      |  | -3298 Dec 13 j 12:50 | 13° $\text{Z}$ 57'18  | 46°41'08   |  |
|                     | -3300 Jun 15 j 07:06 | 0° $\text{B}$              |            | asc. node           |  | -3298 Dec 24 j 18:25 | 24° $\text{Z}$ 49'53  |            |  |
| asc. node           | -3300 Jul 09 j 00:40 | 28° $\text{B}$ 58'25       |            |                     |  | -3298 Dec 30 j 14:40 | 0° $\text{A}$         |            |  |
|                     | -3300 Jul 09 j 20:40 | 0° $\text{II}$             |            | greatest brilliancy |  | -3297 Jan 22 j 00:09 | 14° $\text{A}$ 34'25  | -4.8m      |  |
|                     | -3300 Aug 03 j 01:06 | 0° $\text{G}$              |            | retrograde          |  | -3297 Feb 01 j 21:43 | 16° $\text{A}$ 48'07  |            |  |
| morning set         | -3300 Aug 17 j 01:11 | 17° $\text{G}$ 31'55       |            | evening set         |  | -3297 Feb 19 j 16:35 | 10° $\text{A}$ 38'15  |            |  |
|                     | -3300 Aug 26 j 23:10 | 0° $\text{Q}$              |            | inferior conj       |  | -3297 Feb 23 j 05:26 | 8° $\text{A}$ 24'24   | 8°13'42    |  |
|                     | -3300 Sep 19 j 18:11 | 0° $\text{M}$              |            | minimum elong       |  | -3297 Feb 23 j 08:11 | 8° $\text{A}$ 20'02   | 8°13'30    |  |
|                     |                      |                            |            | min. Earth dist.    |  | -3297 Feb 22 j 23:46 | 8° $\text{A}$ 33'28   | 0.29056 AU |  |
| superior conj       | -3300 Sep 25 j 02:55 | 6° $\text{M}$ 46'14        | 1°08'03    | morning rise        |  | -3297 Feb 26 j 23:59 | 6° $\text{A}$ 02'13   |            |  |
| minimum elong       | -3300 Sep 25 j 13:29 | 7° $\text{M}$ 19'32        | 1°07'48    | direct              |  | -3297 Mar 16 j 15:58 | 0° $\text{A}$ 03'45   |            |  |
| max. Earth dist.    | -3300 Sep 25 j 11:00 | 7° $\text{M}$ 11'44        | 1.70924 AU | greatest brilliancy |  | -3297 Mar 26 j 02:42 | 1° $\text{A}$ 41'43   | -4.7m      |  |
|                     | -3300 Oct 13 j 13:04 | 0° $\text{U}$              |            | desc. node          |  | -3297 Apr 15 j 13:32 | 13° $\text{A}$ 25'58  |            |  |
| desc. node          | -3300 Oct 28 j 18:46 | 19° $\text{U}$ 10'31       |            | morning max el      |  | -3297 May 04 j 12:11 | 29° $\text{A}$ 52'30  | 45°47'59   |  |
| evening rise        | -3300 Nov 06 j 02:39 | 29° $\text{U}$ 37'50       |            |                     |  | -3297 May 04 j 15:20 | 0° $\text{H}$         |            |  |
|                     | -3300 Nov 06 j 09:43 | 0° $\text{M}$              |            |                     |  | -3297 Jun 02 j 17:23 | 0° $\text{Y}$         |            |  |
|                     | -3300 Nov 30 j 09:10 | 0° $\text{J}$              |            |                     |  | -3297 Jun 29 j 07:42 | 0° $\text{B}$         |            |  |
|                     | -3300 Dec 24 j 12:23 | 0° $\text{Z}$              |            |                     |  | -3297 Jul 24 j 16:51 | 0° $\text{II}$        |            |  |
|                     | -3299 Jan 17 j 21:19 | 0° $\text{A}$              |            | asc. node           |  | -3297 Aug 06 j 12:29 | 15° $\text{II}$ 31'45 |            |  |
|                     | -3299 Feb 11 j 15:29 | 0° $\text{H}$              |            |                     |  | -3297 Aug 18 j 07:30 | 0° $\text{G}$         |            |  |
| asc. node           | -3299 Feb 18 j 16:09 | 8° $\text{H}$ 23'53        |            |                     |  | -3297 Sep 11 j 10:15 | 0° $\text{Q}$         |            |  |
|                     | -3299 Mar 09 j 00:39 | 0° $\text{Y}$              |            |                     |  | -3297 Oct 05 j 06:42 | 0° $\text{M}$         |            |  |
|                     | -3299 Apr 04 j 11:12 | 0° $\text{B}$              |            |                     |  | -3297 Oct 29 j 01:30 | 0° $\text{U}$         |            |  |
|                     | -3299 May 03 j 02:53 | 0° $\text{II}$             |            | morning set         |  | -3297 Nov 01 j 01:27 | 3° $\text{U}$ 46'39   |            |  |
| evening max el      | -3299 May 06 j 17:44 | 3° $\text{II}$ 29'11       | 45°19'49   |                     |  | -3297 Nov 21 j 21:41 | 0° $\text{M}$         |            |  |
| desc. node          | -3299 Jun 10 j 10:49 | 29° $\text{II}$ 40'09      |            | desc. node          |  | -3297 Nov 26 j 06:57 | 5° $\text{M}$ 30'16   |            |  |
|                     | -3299 Jun 11 j 04:44 | 0° $\text{G}$              |            |                     |  |                      |                       |            |  |
| greatest brilliancy | -3299 Jun 14 j 09:43 | 1° $\text{G}$ 15'01        | -4.7m      | superior conj       |  | -3297 Dec 13 j 06:31 | 26° $\text{M}$ 46'01  | -0°38'16   |  |
| retrograde          | -3299 Jun 24 j 10:12 | 3° $\text{G}$ 03'19        |            | minimum elong       |  | -3297 Dec 12 j 21:11 | 26° $\text{M}$ 16'51  | 0°37'57    |  |
|                     | -3299 Jul 07 j 00:09 | 30° $\text{K}$ $\text{II}$ |            |                     |  | -3297 Dec 15 j 20:36 | 0° $\text{J}$         |            |  |
| evening set         | -3299 Jul 10 j 14:50 | 28° $\text{II}$ 08'22      |            | max. Earth dist.    |  | -3297 Dec 17 j 22:47 | 2° $\text{J}$ 36'44   | 1.71704 AU |  |
| inferior conj       | -3299 Jul 15 j 13:41 | 25° $\text{II}$ 13'16      | -7°11'01   |                     |  | -3296 Jan 08 j 22:32 | 0° $\text{Z}$         |            |  |
| minimum elong       | -3299 Jul 15 j 03:45 | 25° $\text{II}$ 28'19      | 7°09'11    | evening rise        |  | -3296 Jan 23 j 02:30 | 17° $\text{Z}$ 34'21  |            |  |
| min. Earth dist.    | -3299 Jul 15 j 21:29 | 25° $\text{II}$ 01'26      | 0.27916 AU | greatest brilliancy |  | -3296 Jan 30 j 04:21 | 26° $\text{Z}$ 19'30  | -3.9m      |  |
| morning rise        | -3299 Jul 19 j 16:18 | 22° $\text{II}$ 45'45      |            |                     |  | -3296 Feb 02 j 03:46 | 0° $\text{A}$         |            |  |
| direct              | -3299 Aug 05 j 19:21 | 17° $\text{II}$ 12'58      |            |                     |  | -3296 Feb 26 j 13:13 | 0° $\text{H}$         |            |  |
| greatest brilliancy | -3299 Aug 16 j 20:49 | 19° $\text{II}$ 27'35      | -4.8m      | asc. node           |  | -3296 Mar 18 j 04:17 | 25° $\text{H}$ 08'57  |            |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 22

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|
|                     | -3296 Mar 22 j 04:18 | 0°♿       |            |                     |  | -3294 Dec 06 j 06:16 | 0°♌       |            |
|                     | -3296 Apr 16 j 02:49 | 0°♄       |            | desc. node          |  | -3294 Dec 23 j 19:03 | 21°♌50'39 |            |
|                     | -3296 May 11 j 11:30 | 0°♊       |            |                     |  | -3294 Dec 30 j 08:32 | 0°♈       |            |
|                     | -3296 Jun 06 j 12:05 | 0°♊       |            | morning set         |  | -3293 Jan 17 j 04:33 | 22°♈07'26 |            |
|                     | -3296 Jul 03 j 20:02 | 0°♋       |            |                     |  | -3293 Jan 23 j 13:16 | 0°♈       |            |
| desc. node          | -3296 Jul 07 j 22:32 | 4°♋17'22  |            |                     |  | -3293 Feb 16 j 20:11 | 0°♏       |            |
| evening max el      | -3296 Jul 18 j 23:17 | 15°♋24'23 | 46°36'35   |                     |  |                      |           |            |
|                     | -3296 Aug 04 j 00:34 | 0°♎       |            | superior conj       |  | -3293 Feb 25 j 09:44 | 10°♏33'15 | -1°22'21   |
| greatest brilliancy | -3296 Aug 28 j 19:53 | 15°♎18'47 | -4.9m      | minimum elong       |  | -3293 Feb 25 j 13:23 | 10°♏44'31 | 1°22'25    |
| retrograde          | -3296 Sep 06 j 21:03 | 16°♎49'54 |            | max. Earth dist.    |  | -3293 Feb 27 j 09:48 | 13°♏01'15 | 1.73267 AU |
| evening set         | -3296 Sep 23 j 09:49 | 11°♎35'19 |            |                     |  | -3293 Mar 13 j 05:00 | 0°♏       |            |
| inferior conj       | -3296 Sep 27 j 11:01 | 9°♎10'31  | -7°03'29   | evening rise        |  | -3293 Apr 03 j 15:31 | 26°♏19'04 |            |
| minimum elong       | -3296 Sep 27 j 21:39 | 8°♎54'23  | 7°01'19    |                     |  | -3293 Apr 06 j 15:36 | 0°♿       |            |
| min. Earth dist.    | -3296 Sep 27 j 20:19 | 8°♎56'24  | 0.26563 AU | asc. node           |  | -3293 Apr 15 j 16:32 | 11°♿04'29 |            |
| morning rise        | -3296 Oct 02 j 09:22 | 6°♎16'06  |            |                     |  | -3293 May 01 j 03:55 | 0°♄       |            |
| direct              | -3296 Oct 17 j 21:15 | 1°♎33'47  |            |                     |  | -3293 May 25 j 18:08 | 0°♊       |            |
| greatest brilliancy | -3296 Oct 28 j 09:53 | 3°♎41'00  | -4.9m      |                     |  | -3293 Jun 19 j 11:06 | 0°♊       |            |
| asc. node           | -3296 Oct 28 j 21:02 | 3°♎51'56  |            |                     |  | -3293 Jul 14 j 08:57 | 0°♋       |            |
|                     | -3296 Dec 02 j 11:56 | 0°♌       |            | desc. node          |  | -3293 Aug 05 j 10:21 | 26°♋12'16 |            |
| morning max el      | -3296 Dec 07 j 13:10 | 5°♌02'44  | 46°46'31   |                     |  | -3293 Aug 08 j 15:50 | 0°♎       |            |
|                     | -3296 Dec 30 j 19:53 | 0°♌       |            |                     |  | -3293 Sep 03 j 16:25 | 0°♌       |            |
|                     | -3295 Jan 26 j 03:00 | 0°♈       |            | evening max el      |  | -3293 Oct 01 j 01:08 | 29°♌32'28 | 47°33'53   |
| desc. node          | -3295 Feb 17 j 16:39 | 26°♈25'46 |            |                     |  | -3293 Oct 01 j 12:00 | 0°♌       |            |
|                     | -3295 Feb 20 j 17:16 | 0°♈       |            |                     |  | -3293 Nov 07 j 14:15 | 0°♈       |            |
|                     | -3295 Mar 17 j 23:14 | 0°♏       |            | greatest brilliancy |  | -3293 Nov 10 j 20:07 | 1°♈23'41  | -4.9m      |
|                     | -3295 Apr 11 j 23:23 | 0°♏       |            | retrograde          |  | -3293 Nov 21 j 03:08 | 3°♈26'31  |            |
|                     | -3295 May 06 j 18:14 | 0°♿       |            | asc. node           |  | -3293 Nov 26 j 08:51 | 2°♈52'00  |            |
|                     | -3295 May 31 j 07:37 | 0°♄       |            |                     |  | -3293 Dec 04 j 02:05 | 30°♏      |            |
| morning set         | -3295 Jun 06 j 08:48 | 7°♄26'11  |            | evening set         |  | -3293 Dec 05 j 21:34 | 29°♏02'12 |            |
| asc. node           | -3295 Jun 10 j 14:47 | 12°♄40'08 |            | min. Earth dist.    |  | -3293 Dec 10 j 22:06 | 26°♏01'49 | 0.27031 AU |
|                     | -3295 Jun 24 j 15:23 | 0°♊       |            | inferior conj       |  | -3293 Dec 11 j 21:49 | 25°♏24'40 | 3°47'31    |
| max. Earth dist.    | -3295 Jul 08 j 05:56 | 16°♊54'04 | 1.72357 AU | minimum elong       |  | -3293 Dec 11 j 14:18 | 25°♏36'27 | 3°45'18    |
|                     |                      |           |            | morning rise        |  | -3293 Dec 17 j 07:45 | 22°♏08'34 |            |
| superior conj       | -3295 Jul 12 j 17:35 | 22°♊29'14 | 1°06'00    | direct              |  | -3292 Jan 01 j 08:01 | 17°♏38'14 |            |
| minimum elong       | -3295 Jul 12 j 08:55 | 22°♊02'16 | 1°05'52    | greatest brilliancy |  | -3292 Jan 10 j 09:25 | 19°♏10'54 | -4.8m      |
|                     | -3295 Jul 18 j 18:08 | 0°♊       |            |                     |  | -3292 Jan 29 j 09:59 | 0°♈       |            |
|                     | -3295 Aug 11 j 17:30 | 0°♋       |            | morning max el      |  | -3292 Feb 19 j 15:04 | 18°♈35'10 | 46°09'46   |
| evening rise        | -3295 Aug 18 j 21:57 | 9°♋00'25  |            |                     |  | -3292 Mar 02 j 00:29 | 0°♈       |            |
|                     | -3295 Sep 04 j 15:44 | 0°♎       |            | desc. node          |  | -3292 Mar 17 j 04:15 | 16°♈03'18 |            |
|                     | -3295 Sep 28 j 14:53 | 0°♌       |            |                     |  | -3292 Mar 29 j 20:12 | 0°♏       |            |
| desc. node          | -3295 Sep 30 j 08:37 | 2°♌10'23  |            |                     |  | -3292 Apr 25 j 04:34 | 0°♏       |            |
|                     | -3295 Oct 22 j 16:32 | 0°♌       |            |                     |  | -3292 May 20 j 18:11 | 0°♿       |            |
|                     | -3295 Nov 15 j 22:16 | 0°♈       |            |                     |  | -3292 Jun 14 j 18:29 | 0°♄       |            |
|                     | -3295 Dec 10 j 11:19 | 0°♈       |            | asc. node           |  | -3292 Jul 08 j 02:44 | 28°♄30'35 |            |
|                     | -3294 Jan 04 j 14:48 | 0°♏       |            |                     |  | -3292 Jul 09 j 07:46 | 0°♊       |            |
| asc. node           | -3294 Jan 21 j 06:10 | 19°♏08'57 |            |                     |  | -3292 Aug 02 j 12:05 | 0°♊       |            |
|                     | -3294 Jan 31 j 00:28 | 0°♏       |            | morning set         |  | -3292 Aug 14 j 15:40 | 15°♏12'21 |            |
| evening max el      | -3294 Feb 22 j 11:48 | 23°♏17'21 | 45°23'01   |                     |  | -3292 Aug 26 j 10:08 | 0°♋       |            |
|                     | -3294 Mar 01 j 15:36 | 0°♿       |            |                     |  | -3292 Sep 19 j 05:11 | 0°♎       |            |
| greatest brilliancy | -3294 Apr 01 j 05:04 | 20°♿56'08 | -4.7m      |                     |  |                      |           |            |
| retrograde          | -3294 Apr 11 j 21:24 | 22°♿58'59 |            | superior conj       |  | -3292 Sep 22 j 14:11 | 4°♎15'32  | 1°10'14    |
| evening set         | -3294 Apr 27 j 07:14 | 18°♿27'59 |            | minimum elong       |  | -3292 Sep 23 j 00:20 | 4°♎47'36  | 1°10'01    |
| inferior conj       | -3294 May 03 j 08:49 | 14°♿49'53 | 2°12'23    | max. Earth dist.    |  | -3292 Sep 22 j 18:57 | 4°♎30'34  | 1.70941 AU |
| minimum elong       | -3294 May 03 j 13:27 | 14°♿42'37 | 2°11'08    |                     |  | -3292 Oct 13 j 00:08 | 0°♌       |            |
| min. Earth dist.    | -3294 May 03 j 23:58 | 14°♿26'10 | 0.29022 AU | desc. node          |  | -3292 Oct 27 j 20:57 | 18°♌42'23 |            |
| morning rise        | -3294 May 09 j 19:10 | 10°♿57'57 |            | evening rise        |  | -3292 Nov 03 j 11:21 | 26°♌59'39 |            |
| desc. node          | -3294 May 13 j 01:12 | 9°♿19'08  |            |                     |  | -3292 Nov 05 j 20:52 | 0°♌       |            |
| direct              | -3294 May 25 j 03:46 | 6°♿28'23  |            |                     |  | -3292 Nov 29 j 20:25 | 0°♈       |            |
| greatest brilliancy | -3294 Jun 05 j 00:58 | 8°♿34'49  | -4.7m      |                     |  | -3292 Dec 23 j 23:47 | 0°♈       |            |
|                     | -3294 Jul 06 j 02:31 | 0°♄       |            |                     |  | -3291 Jan 17 j 08:58 | 0°♏       |            |
| morning max el      | -3294 Jul 13 j 09:44 | 6°♄52'09  | 46°08'03   |                     |  | -3291 Feb 11 j 03:38 | 0°♏       |            |
|                     | -3294 Aug 04 j 16:08 | 0°♊       |            | asc. node           |  | -3291 Feb 17 j 18:13 | 7°♏53'16  |            |
|                     | -3294 Aug 30 j 23:25 | 0°♊       |            |                     |  | -3291 Mar 08 j 13:49 | 0°♿       |            |
| asc. node           | -3294 Sep 03 j 00:14 | 3°♊35'03  |            |                     |  | -3291 Apr 04 j 02:41 | 0°♄       |            |
|                     | -3294 Sep 24 j 22:07 | 0°♋       |            |                     |  | -3291 May 03 j 00:53 | 0°♊       |            |
|                     | -3294 Oct 19 j 05:06 | 0°♎       |            | evening max el      |  | -3291 May 04 j 09:06 | 1°♎16'58  | 45°18'23   |
|                     | -3294 Nov 12 j 05:58 | 0°♌       |            | desc. node          |  | -3291 Jun 09 j 12:57 | 28°♊03'00 |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 23

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                     |            |                     |  |                      |                                     |            |
|---------------------|----------------------|-------------------------------------|------------|---------------------|--|----------------------|-------------------------------------|------------|
| greatest brilliancy | -3291 Jun 11 j 21:28 | 28° $\Pi$ 56'37                     | -4.7m      |                     |  | -3289 Nov 21 j 09:00 | 0° $\mathbb{M}$                     |            |
|                     | -3291 Jun 15 j 12:41 | 0° $\mathfrak{D}$                   |            | desc. node          |  | -3289 Nov 25 j 09:05 | 5° $\mathbb{M}$ 01'33               |            |
| retrograde          | -3291 Jun 22 j 00:35 | 0° $\mathfrak{D}$ 46'41             |            |                     |  |                      |                                     |            |
|                     | -3291 Jun 28 j 07:38 | 30° $\mathbb{R}\Pi$                 |            | superior conj       |  | -3289 Dec 10 j 15:56 | 24° $\mathbb{M}$ 10'15              | -0°34'42   |
| evening set         | -3291 Jul 08 j 01:23 | 25° $\Pi$ 56'12                     |            | minimum elong       |  | -3289 Dec 10 j 07:16 | 23° $\mathbb{M}$ 43'09              | 0°34'25    |
| inferior conj       | -3291 Jul 13 j 03:49 | 22° $\Pi$ 55'48                     | -6°57'44   |                     |  | -3289 Dec 15 j 07:51 | 0° $\mathfrak{A}$                   |            |
| minimum elong       | -3291 Jul 12 j 17:41 | 23° $\Pi$ 11'11                     | 6°55'45    | max. Earth dist.    |  | -3289 Dec 15 j 11:56 | 0° $\mathfrak{A}$ 12'44             | 1.71647 AU |
| min. Earth dist.    | -3291 Jul 13 j 11:05 | 22° $\Pi$ 44'46                     | 0.27961 AU |                     |  | -3288 Jan 08 j 09:43 | 0° $\mathfrak{Z}$                   |            |
| morning rise        | -3291 Jul 17 j 09:39 | 20° $\Pi$ 23'44                     |            | evening rise        |  | -3288 Jan 20 j 15:14 | 15° $\mathfrak{Z}$ 10'31            |            |
| direct              | -3291 Aug 03 j 10:48 | 14° $\Pi$ 54'47                     |            |                     |  | -3288 Feb 01 j 14:57 | 0° $\approx$                        |            |
| greatest brilliancy | -3291 Aug 14 j 11:17 | 17° $\Pi$ 08'50                     | -4.8m      |                     |  | -3288 Feb 26 j 00:31 | 0° $\mathfrak{H}$                   |            |
|                     | -3291 Sep 03 j 22:21 | 0° $\mathfrak{D}$                   |            | asc. node           |  | -3288 Mar 17 j 06:28 | 24° $\mathfrak{H}$ 40'30            |            |
| morning max el      | -3291 Sep 22 j 22:24 | 17° $\mathfrak{D}$ 36'27            | 46°45'24   |                     |  | -3288 Mar 21 j 15:55 | 0° $\mathcal{Y}$                    |            |
| asc. node           | -3291 Sep 30 j 11:46 | 25° $\mathfrak{D}$ 27'37            |            |                     |  | -3288 Apr 15 j 15:01 | 0° $\mathfrak{B}$                   |            |
|                     | -3291 Oct 04 j 17:08 | 0° $\Omega$                         |            |                     |  | -3288 May 11 j 00:43 | 0° $\Pi$                            |            |
|                     | -3291 Oct 31 j 02:20 | 0° $\mathbb{M}$                     |            |                     |  | -3288 Jun 06 j 03:13 | 0° $\mathfrak{D}$                   |            |
|                     | -3291 Nov 25 j 04:20 | 0° $\underline{\mathfrak{A}}$       |            |                     |  | -3288 Jul 03 j 15:30 | 0° $\Omega$                         |            |
|                     | -3291 Dec 19 j 19:49 | 0° $\mathbb{M}$                     |            | desc. node          |  | -3288 Jul 07 j 00:34 | 3° $\Omega$ 29'51                   |            |
|                     | -3290 Jan 13 j 08:50 | 0° $\mathfrak{A}$                   |            | evening max el      |  | -3288 Jul 16 j 11:51 | 12° $\Omega$ 59'28                  | 46°33'22   |
| desc. node          | -3290 Jan 20 j 06:54 | 8° $\mathfrak{A}$ 27'31             |            |                     |  | -3288 Aug 04 j 13:19 | 0° $\mathbb{M}$                     |            |
|                     | -3290 Feb 06 j 21:55 | 0° $\mathfrak{Z}$                   |            | greatest brilliancy |  | -3288 Aug 26 j 08:25 | 12° $\mathbb{M}$ 50'28              | -4.9m      |
|                     | -3290 Mar 03 j 11:12 | 0° $\approx$                        |            | retrograde          |  | -3288 Sep 04 j 08:12 | 14° $\mathbb{M}$ 20'23              |            |
|                     | -3290 Mar 28 j 00:06 | 0° $\mathfrak{H}$                   |            | evening set         |  | -3288 Sep 21 j 01:16 | 9° $\mathbb{M}$ 01'21               |            |
| morning set         | -3290 Mar 29 j 06:11 | 1° $\mathfrak{H}$ 32'01             |            | inferior conj       |  | -3288 Sep 24 j 23:07 | 6° $\mathbb{M}$ 41'20               | -7°18'07   |
|                     | -3290 Apr 21 j 11:55 | 0° $\mathcal{Y}$                    |            | minimum elong       |  | -3288 Sep 25 j 09:31 | 6° $\mathbb{M}$ 25'32               | 7°16'05    |
| max. Earth dist.    | -3290 May 02 j 09:03 | 13° $\mathcal{Y}$ 21'08             | 1.73664 AU | min. Earth dist.    |  | -3288 Sep 25 j 09:17 | 6° $\mathbb{M}$ 25'53               | 0.26599 AU |
|                     |                      |                                     |            | morning rise        |  | -3288 Sep 29 j 17:36 | 3° $\mathbb{M}$ 51'59               |            |
| superior conj       | -3290 May 04 j 09:26 | 15° $\mathcal{Y}$ 49'44             | -0°20'30   |                     |  | -3288 Oct 08 j 15:50 | 30° $\mathbb{R}\Omega$              |            |
| minimum elong       | -3290 May 04 j 13:23 | 16° $\mathcal{Y}$ 01'51             | 0°20'17    | direct              |  | -3288 Oct 15 j 09:33 | 29° $\Omega$ 04'03                  |            |
| asc. node           | -3290 May 13 j 04:50 | 26° $\mathcal{Y}$ 39'28             |            |                     |  | -3288 Oct 22 j 07:17 | 0° $\mathbb{M}$                     |            |
|                     | -3290 May 15 j 22:02 | 0° $\mathfrak{B}$                   |            | greatest brilliancy |  | -3288 Oct 25 j 23:41 | 1° $\mathbb{M}$ 12'04               | -4.9m      |
| evening rise        | -3290 Jun 09 j 01:13 | 29° $\mathfrak{B}$ 44'45            |            | asc. node           |  | -3288 Oct 27 j 23:20 | 2° $\mathbb{M}$ 01'41               |            |
|                     | -3290 Jun 09 j 06:09 | 0° $\Pi$                            |            |                     |  | -3288 Dec 02 j 12:55 | 0° $\underline{\mathfrak{A}}$       |            |
|                     | -3290 Jul 03 j 12:34 | 0° $\mathfrak{D}$                   |            | morning max el      |  | -3288 Dec 05 j 01:10 | 2° $\underline{\mathfrak{A}}$ 31'58 | 46°47'19   |
|                     | -3290 Jul 27 j 18:28 | 0° $\Omega$                         |            |                     |  | -3288 Dec 30 j 13:12 | 0° $\mathbb{M}$                     |            |
|                     | -3290 Aug 21 j 01:40 | 0° $\mathbb{M}$                     |            |                     |  | -3287 Jan 25 j 17:30 | 0° $\mathfrak{A}$                   |            |
| desc. node          | -3290 Sep 01 j 22:31 | 14° $\mathbb{M}$ 35'41              |            | desc. node          |  | -3287 Feb 16 j 18:45 | 25° $\mathfrak{A}$ 53'05            |            |
|                     | -3290 Sep 14 j 12:23 | 0° $\underline{\mathfrak{A}}$       |            |                     |  | -3287 Feb 20 j 06:17 | 0° $\mathfrak{Z}$                   |            |
|                     | -3290 Oct 09 j 05:42 | 0° $\mathbb{M}$                     |            |                     |  | -3287 Mar 17 j 11:23 | 0° $\approx$                        |            |
|                     | -3290 Nov 03 j 12:06 | 0° $\mathfrak{A}$                   |            |                     |  | -3287 Apr 11 j 10:59 | 0° $\mathfrak{H}$                   |            |
|                     | -3290 Nov 30 j 01:37 | 0° $\mathfrak{Z}$                   |            |                     |  | -3287 May 06 j 05:31 | 0° $\mathcal{Y}$                    |            |
| evening max el      | -3290 Dec 11 j 05:16 | 11° $\mathfrak{Z}$ 42'34            | 46°44'07   |                     |  | -3287 May 30 j 18:44 | 0° $\mathfrak{B}$                   |            |
| asc. node           | -3290 Dec 23 j 20:29 | 23° $\mathfrak{Z}$ 52'19            |            | morning set         |  | -3287 Jun 04 j 03:14 | 5° $\mathfrak{B}$ 21'07             |            |
|                     | -3290 Dec 30 j 23:26 | 0° $\approx$                        |            | asc. node           |  | -3287 Jun 09 j 16:51 | 12° $\mathfrak{B}$ 12'22            |            |
| greatest brilliancy | -3289 Jan 19 j 16:45 | 12° $\approx$ 22'36                 | -4.8m      |                     |  | -3287 Jun 24 j 02:26 | 0° $\Pi$                            |            |
| retrograde          | -3289 Jan 30 j 14:52 | 14° $\approx$ 36'34                 |            | max. Earth dist.    |  | -3287 Jul 05 j 23:19 | 14° $\Pi$ 44'25                     | 1.72417 AU |
| evening set         | -3289 Feb 17 j 09:42 | 8° $\approx$ 26'02                  |            |                     |  |                      |                                     |            |
| inferior conj       | -3289 Feb 20 j 21:59 | 6° $\approx$ 12'50                  | 8°16'46    | superior conj       |  | -3287 Jul 10 j 11:03 | 20° $\Pi$ 19'43                     | 1°03'58    |
| minimum elong       | -3289 Feb 21 j 00:03 | 6° $\approx$ 09'32                  | 8°16'36    | minimum elong       |  | -3287 Jul 10 j 02:18 | 19° $\Pi$ 52'28                     | 1°03'48    |
| min. Earth dist.    | -3289 Feb 20 j 14:41 | 6° $\approx$ 24'29                  | 0.29016 AU |                     |  | -3287 Jul 18 j 05:13 | 0° $\mathfrak{D}$                   |            |
| morning rise        | -3289 Feb 24 j 14:38 | 3° $\approx$ 53'28                  |            |                     |  | -3287 Aug 11 j 04:42 | 0° $\Omega$                         |            |
|                     | -3289 Mar 04 j 02:04 | 30° $\mathbb{R}\mathfrak{Z}$        |            | evening rise        |  | -3287 Aug 16 j 12:28 | 6° $\Omega$ 40'16                   |            |
| direct              | -3289 Mar 14 j 08:31 | 27° $\mathfrak{Z}$ 53'06            |            |                     |  | -3287 Sep 04 j 03:06 | 0° $\mathbb{M}$                     |            |
| greatest brilliancy | -3289 Mar 23 j 16:33 | 29° $\mathfrak{Z}$ 29'12            | -4.7m      |                     |  | -3287 Sep 28 j 02:30 | 0° $\underline{\mathfrak{A}}$       |            |
|                     | -3289 Mar 25 j 03:43 | 0° $\approx$                        |            | desc. node          |  | -3287 Sep 29 j 10:50 | 1° $\underline{\mathfrak{A}}$ 40'57 |            |
| desc. node          | -3289 Apr 14 j 15:45 | 12° $\approx$ 21'53                 |            |                     |  | -3287 Oct 22 j 04:26 | 0° $\mathbb{M}$                     |            |
| morning max el      | -3289 May 02 j 04:18 | 27° $\approx$ 42'56                 | 45°47'59   |                     |  | -3287 Nov 15 j 10:32 | 0° $\mathfrak{A}$                   |            |
|                     | -3289 May 04 j 13:25 | 0° $\mathfrak{H}$                   |            |                     |  | -3287 Dec 10 j 00:11 | 0° $\mathfrak{Z}$                   |            |
|                     | -3289 Jun 02 j 09:02 | 0° $\mathcal{Y}$                    |            |                     |  | -3286 Jan 04 j 04:51 | 0° $\approx$                        |            |
|                     | -3289 Jun 28 j 21:04 | 0° $\mathfrak{B}$                   |            | asc. node           |  | -3286 Jan 20 j 08:16 | 18° $\approx$ 31'22                 |            |
|                     | -3289 Jul 24 j 05:10 | 0° $\Pi$                            |            |                     |  | -3286 Jan 30 j 17:15 | 0° $\mathfrak{H}$                   |            |
| asc. node           | -3289 Aug 05 j 14:35 | 15° $\Pi$ 01'37                     |            | evening max el      |  | -3286 Feb 20 j 02:00 | 21° $\mathfrak{H}$ 01'43            | 45°24'50   |
|                     | -3289 Aug 17 j 19:17 | 0° $\mathfrak{D}$                   |            |                     |  | -3286 Mar 01 j 18:05 | 0° $\mathcal{Y}$                    |            |
|                     | -3289 Sep 10 j 21:47 | 0° $\Omega$                         |            | greatest brilliancy |  | -3286 Mar 29 j 21:25 | 18° $\mathcal{Y}$ 47'40             | -4.7m      |
|                     | -3289 Oct 04 j 18:07 | 0° $\mathbb{M}$                     |            | retrograde          |  | -3286 Apr 09 j 13:40 | 20° $\mathcal{Y}$ 51'03             |            |
|                     | -3289 Oct 28 j 12:51 | 0° $\underline{\mathfrak{A}}$       |            | evening set         |  | -3286 Apr 25 j 01:25 | 16° $\mathcal{Y}$ 16'52             |            |
| morning set         | -3289 Oct 29 j 11:30 | 1° $\underline{\mathfrak{A}}$ 11'23 |            | inferior conj       |  | -3286 May 01 j 01:22 | 12° $\mathcal{Y}$ 41'07             | 2°30'50    |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 24

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                  |            |                     |  |                      |                                  |            |
|---------------------|----------------------|----------------------------------|------------|---------------------|--|----------------------|----------------------------------|------------|
| minimum elong       | -3286 May 01 j 06:35 | 12° $\Upsilon$ 32'56             | 2°29'25    |                     |  | -3284 Oct 12 j 11:27 | 0° $\underline{\text{B}}$        |            |
| min. Earth dist.    | -3286 May 01 j 16:51 | 12° $\Upsilon$ 16'52             | 0.29052 AU | desc. node          |  | -3284 Oct 26 j 23:03 | 18° $\underline{\text{B}}$ 13'19 |            |
| morning rise        | -3286 May 07 j 11:13 | 8° $\Upsilon$ 49'41              |            | evening rise        |  | -3284 Oct 31 j 20:13 | 24° $\underline{\text{B}}$ 21'14 |            |
| desc. node          | -3286 May 12 j 03:20 | 6° $\Upsilon$ 33'11              |            |                     |  | -3284 Nov 05 j 08:13 | 0° $\mathbb{M}$                  |            |
| direct              | -3286 May 22 j 19:53 | 4° $\Upsilon$ 18'51              |            |                     |  | -3284 Nov 29 j 07:51 | 0° $\text{Z}$                    |            |
| greatest brilliancy | -3286 Jun 02 j 17:48 | 6° $\Upsilon$ 25'45              | -4.7m      |                     |  | -3284 Dec 23 j 11:21 | 0° $\text{Z}$                    |            |
|                     | -3286 Jul 06 j 03:52 | 0° $\text{B}$                    |            |                     |  | -3283 Jan 16 j 20:47 | 0° $\approx$                     |            |
| morning max el      | -3286 Jul 11 j 01:23 | 4° $\text{B}$ 39'01              | 46°06'57   |                     |  | -3283 Feb 10 j 15:58 | 0° $\text{H}$                    |            |
|                     | -3286 Aug 04 j 08:53 | 0° $\mathbb{I}$                  |            | asc. node           |  | -3283 Feb 16 j 20:22 | 7° $\text{H}$ 22'15              |            |
|                     | -3286 Aug 30 j 13:29 | 0° $\text{E}$                    |            |                     |  | -3283 Mar 08 j 03:16 | 0° $\Upsilon$                    |            |
| asc. node           | -3286 Sep 02 j 02:23 | 3° $\text{E}$ 00'15              |            |                     |  | -3283 Apr 03 j 18:38 | 0° $\text{B}$                    |            |
|                     | -3286 Sep 24 j 10:59 | 0° $\Omega$                      |            | evening max el      |  | -3283 May 02 j 00:57 | 29° $\text{B}$ 05'20             | 45°17'01   |
|                     | -3286 Oct 18 j 17:22 | 0° $\mathbb{M}$                  |            |                     |  | -3283 May 03 j 00:03 | 0° $\mathbb{I}$                  |            |
|                     | -3286 Nov 11 j 17:52 | 0° $\underline{\text{B}}$        |            | desc. node          |  | -3283 Jun 08 j 14:57 | 26° $\mathbb{I}$ 21'49           |            |
|                     | -3286 Dec 05 j 17:55 | 0° $\mathbb{M}$                  |            | greatest brilliancy |  | -3283 Jun 09 j 10:02 | 26° $\mathbb{I}$ 38'54           | -4.7m      |
| desc. node          | -3286 Dec 22 j 21:02 | 21° $\mathbb{M}$ 21'06           |            | retrograde          |  | -3283 Jun 19 j 14:52 | 28° $\mathbb{I}$ 29'50           |            |
|                     | -3286 Dec 29 j 19:58 | 0° $\text{Z}$                    |            | evening set         |  | -3283 Jul 05 j 12:17 | 23° $\mathbb{I}$ 43'58           |            |
| morning set         | -3285 Jan 14 j 16:31 | 19° $\text{Z}$ 40'42             |            | inferior conj       |  | -3283 Jul 10 j 18:06 | 20° $\mathbb{I}$ 38'24           | -6°43'51   |
|                     | -3285 Jan 23 j 00:32 | 0° $\text{Z}$                    |            | minimum elong       |  | -3283 Jul 10 j 07:51 | 20° $\mathbb{I}$ 53'59           | 6°41'45    |
|                     | -3285 Feb 16 j 07:20 | 0° $\approx$                     |            | min. Earth dist.    |  | -3283 Jul 11 j 00:59 | 20° $\mathbb{I}$ 27'55           | 0.28003 AU |
|                     |                      |                                  |            | morning rise        |  | -3283 Jul 15 j 03:06 | 18° $\mathbb{I}$ 01'36           |            |
| superior conj       | -3285 Feb 23 j 01:29 | 8° $\approx$ 19'44               | -1°22'57   | direct              |  | -3283 Aug 01 j 02:18 | 12° $\mathbb{I}$ 36'49           |            |
| minimum elong       | -3285 Feb 23 j 04:26 | 8° $\approx$ 28'48               | 1°23'01    | greatest brilliancy |  | -3283 Aug 12 j 01:31 | 14° $\mathbb{I}$ 49'37           | -4.8m      |
| max. Earth dist.    | -3285 Feb 25 j 02:31 | 10° $\approx$ 50'43              | 1.73225 AU |                     |  | -3283 Sep 04 j 08:04 | 0° $\text{E}$                    |            |
|                     | -3285 Mar 12 j 16:05 | 0° $\text{H}$                    |            | morning max el      |  | -3283 Sep 20 j 12:56 | 15° $\text{E}$ 14'41             | 46°44'19   |
| evening rise        | -3285 Apr 01 j 09:22 | 24° $\text{H}$ 12'41             |            | asc. node           |  | -3283 Sep 29 j 14:00 | 24° $\text{E}$ 40'26             |            |
|                     | -3285 Apr 06 j 02:43 | 0° $\Upsilon$                    |            |                     |  | -3283 Oct 04 j 11:59 | 0° $\Omega$                      |            |
| asc. node           | -3285 Apr 14 j 18:43 | 10° $\Upsilon$ 36'58             |            |                     |  | -3283 Oct 30 j 17:30 | 0° $\mathbb{M}$                  |            |
|                     | -3285 Apr 30 j 15:12 | 0° $\text{B}$                    |            |                     |  | -3283 Nov 24 j 17:51 | 0° $\underline{\text{B}}$        |            |
|                     | -3285 May 25 j 05:46 | 0° $\mathbb{I}$                  |            |                     |  | -3283 Dec 19 j 08:24 | 0° $\mathbb{M}$                  |            |
|                     | -3285 Jun 18 j 23:19 | 0° $\text{E}$                    |            |                     |  | -3282 Jan 12 j 20:48 | 0° $\text{Z}$                    |            |
|                     | -3285 Jul 13 j 22:03 | 0° $\Omega$                      |            | desc. node          |  | -3282 Jan 19 j 09:03 | 7° $\text{Z}$ 57'56              |            |
| desc. node          | -3285 Aug 04 j 12:28 | 25° $\Omega$ 36'34               |            |                     |  | -3282 Feb 06 j 09:26 | 0° $\text{Z}$                    |            |
|                     | -3285 Aug 08 j 06:19 | 0° $\mathbb{M}$                  |            |                     |  | -3282 Mar 02 j 22:24 | 0° $\approx$                     |            |
|                     | -3285 Sep 03 j 09:27 | 0° $\underline{\text{B}}$        |            | morning set         |  | -3282 Mar 27 j 00:15 | 29° $\approx$ 26'53              |            |
| evening max el      | -3285 Sep 28 j 15:16 | 27° $\underline{\text{B}}$ 08'04 | 47°33'51   |                     |  | -3282 Mar 27 j 11:04 | 0° $\text{H}$                    |            |
|                     | -3285 Oct 01 j 11:41 | 0° $\mathbb{M}$                  |            |                     |  | -3282 Apr 20 j 22:47 | 0° $\Upsilon$                    |            |
| greatest brilliancy | -3285 Nov 08 j 11:03 | 28° $\mathbb{M}$ 58'32           | -4.9m      | max. Earth dist.    |  | -3282 Apr 30 j 07:33 | 11° $\Upsilon$ 29'29             | 1.73679 AU |
|                     | -3285 Nov 11 j 13:42 | 0° $\text{Z}$                    |            |                     |  |                      |                                  |            |
| retrograde          | -3285 Nov 18 j 17:28 | 1° $\text{Z}$ 01'08              |            | superior conj       |  | -3282 May 02 j 04:25 | 13° $\Upsilon$ 47'14             | -0°23'27   |
| asc. node           | -3285 Nov 25 j 10:49 | 0° $\text{Z}$ 04'01              |            | minimum elong       |  | -3282 May 02 j 08:53 | 14° $\Upsilon$ 00'58             | 0°23'12    |
|                     | -3285 Nov 25 j 16:24 | 30° $\mathbb{R}$ $\mathbb{M}$    |            | asc. node           |  | -3282 May 12 j 06:51 | 26° $\Upsilon$ 12'11             |            |
| evening set         | -3285 Dec 03 j 10:03 | 26° $\mathbb{M}$ 38'52           |            |                     |  | -3282 May 15 j 08:55 | 0° $\text{B}$                    |            |
| min. Earth dist.    | -3285 Dec 08 j 12:27 | 23° $\mathbb{M}$ 36'21           | 0.26968 AU | evening rise        |  | -3282 Jun 06 j 20:29 | 27° $\text{B}$ 42'10             |            |
| inferior conj       | -3285 Dec 09 j 11:36 | 23° $\mathbb{M}$ 00'12           | 3°27'04    |                     |  | -3282 Jun 08 j 17:09 | 0° $\mathbb{I}$                  |            |
| minimum elong       | -3285 Dec 09 j 04:37 | 23° $\mathbb{M}$ 11'07           | 3°24'58    |                     |  | -3282 Jul 02 j 23:47 | 0° $\text{E}$                    |            |
| morning rise        | -3285 Dec 14 j 23:54 | 19° $\mathbb{M}$ 41'25           |            |                     |  | -3282 Jul 27 j 06:00 | 0° $\Omega$                      |            |
| direct              | -3285 Dec 29 j 21:08 | 15° $\mathbb{M}$ 14'36           |            |                     |  | -3282 Aug 20 j 13:40 | 0° $\mathbb{M}$                  |            |
| greatest brilliancy | -3284 Jan 07 j 23:41 | 16° $\mathbb{M}$ 48'41           | -4.8m      | desc. node          |  | -3282 Sep 01 j 00:42 | 14° $\mathbb{M}$ 04'36           |            |
|                     | -3284 Jan 30 j 00:23 | 0° $\text{Z}$                    |            |                     |  | -3282 Sep 14 j 01:02 | 0° $\underline{\text{B}}$        |            |
| morning max el      | -3284 Feb 17 j 06:01 | 16° $\text{Z}$ 18'25             | 46°11'02   |                     |  | -3282 Oct 08 j 19:16 | 0° $\mathbb{M}$                  |            |
|                     | -3284 Mar 01 j 19:53 | 0° $\text{Z}$                    |            |                     |  | -3282 Nov 03 j 03:15 | 0° $\text{Z}$                    |            |
| desc. node          | -3284 Mar 16 j 06:27 | 15° $\text{Z}$ 24'14             |            |                     |  | -3282 Nov 29 j 20:26 | 0° $\text{Z}$                    |            |
|                     | -3284 Mar 29 j 11:16 | 0° $\approx$                     |            | evening max el      |  | -3282 Dec 08 j 21:18 | 9° $\text{Z}$ 26'34              | 46°47'06   |
|                     | -3284 Apr 24 j 17:46 | 0° $\text{H}$                    |            | asc. node           |  | -3282 Dec 22 j 22:37 | 22° $\text{Z}$ 53'49             |            |
|                     | -3284 May 20 j 06:23 | 0° $\Upsilon$                    |            |                     |  | -3282 Dec 31 j 11:10 | 0° $\approx$                     |            |
|                     | -3284 Jun 14 j 06:07 | 0° $\text{B}$                    |            | greatest brilliancy |  | -3281 Jan 17 j 10:06 | 10° $\approx$ 11'57              | -4.8m      |
| asc. node           | -3284 Jul 07 j 04:47 | 28° $\text{B}$ 02'00             |            | retrograde          |  | -3281 Jan 28 j 07:49 | 12° $\approx$ 25'27              |            |
|                     | -3284 Jul 08 j 19:07 | 0° $\mathbb{I}$                  |            | evening set         |  | -3281 Feb 15 j 02:43 | 6° $\approx$ 14'59               |            |
|                     | -3284 Aug 01 j 23:19 | 0° $\text{E}$                    |            | inferior conj       |  | -3281 Feb 18 j 14:41 | 4° $\approx$ 02'00               | 8°19'05    |
| morning set         | -3284 Aug 12 j 06:12 | 12° $\text{E}$ 52'15             |            | minimum elong       |  | -3281 Feb 18 j 16:03 | 3° $\approx$ 59'47               | 8°18'57    |
|                     | -3284 Aug 25 j 21:22 | 0° $\Omega$                      |            | min. Earth dist.    |  | -3281 Feb 18 j 06:00 | 4° $\approx$ 15'53               | 0.28970 AU |
|                     | -3284 Sep 18 j 16:28 | 0° $\mathbb{M}$                  |            | morning rise        |  | -3281 Feb 22 j 05:40 | 1° $\approx$ 44'59               |            |
|                     |                      |                                  |            |                     |  | -3281 Feb 25 j 05:53 | 30° $\mathbb{R}$ $\text{Z}$      |            |
| superior conj       | -3284 Sep 20 j 01:39 | 1° $\mathbb{M}$ 44'39            | 1°12'16    | direct              |  | -3281 Mar 12 j 00:49 | 25° $\text{Z}$ 43'21             |            |
| minimum elong       | -3284 Sep 20 j 11:20 | 2° $\mathbb{M}$ 15'12            | 1°12'04    | greatest brilliancy |  | -3281 Mar 21 j 06:46 | 27° $\text{Z}$ 17'39             | -4.7m      |
| max. Earth dist.    | -3284 Sep 20 j 02:21 | 1° $\mathbb{M}$ 46'53            | 1.70957 AU |                     |  | -3281 Mar 27 j 18:10 | 0° $\approx$                     |            |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                               |            |                      |                        |                                   |
|---------------------|----------------------|-------------------------------|------------|----------------------|------------------------|-----------------------------------|
| desc. node          | -3281 Apr 13 j 17:52 | 11° $\approx$ 19'51           |            | -3279 Oct 21 j 16:07 | 0° $\mathbb{M}$        |                                   |
| morning max el      | -3281 Apr 29 j 19:38 | 25° $\approx$ 31'52           | 45°47'56   | -3279 Nov 14 j 22:35 | 0° $\mathbb{A}$        |                                   |
|                     | -3281 May 04 j 10:31 | 0° $\mathbb{H}$               |            | -3279 Dec 09 j 12:52 | 0° $\mathbb{Z}$        |                                   |
|                     | -3281 Jun 02 j 00:21 | 0° $\mathbb{Y}$               |            | -3278 Jan 03 j 18:45 | 0° $\approx$           |                                   |
|                     | -3281 Jun 28 j 10:17 | 0° $\mathbb{B}$               |            | -3278 Jan 19 j 10:27 | 17° $\approx$ 54'33    |                                   |
| asc. node           | -3281 Jul 23 j 17:23 | 0° $\mathbb{I}$               |            | -3278 Jan 30 j 10:04 | 0° $\mathbb{H}$        |                                   |
|                     | -3281 Aug 04 j 16:48 | 14° $\mathbb{I}$ 32'03        |            | -3278 Feb 17 j 16:56 | 18° $\mathbb{H}$ 48'44 | 45°26'51                          |
|                     | -3281 Aug 17 j 07:00 | 0° $\mathbb{D}$               |            | -3278 Mar 01 j 21:43 | 0° $\mathbb{Y}$        |                                   |
|                     | -3281 Sep 10 j 09:13 | 0° $\mathbb{Q}$               |            | -3278 Mar 27 j 13:27 | 16° $\mathbb{Y}$ 40'07 | -4.7m                             |
| morning set         | -3281 Oct 04 j 05:24 | 0° $\mathbb{P}$               |            | -3278 Apr 07 j 06:39 | 18° $\mathbb{Y}$ 44'36 |                                   |
|                     | -3281 Oct 26 j 21:31 | 28° $\mathbb{P}$ 36'13        |            | -3278 Apr 22 j 19:51 | 14° $\mathbb{Y}$ 07'07 |                                   |
|                     | -3281 Oct 28 j 00:06 | 0° $\mathbb{L}$               |            | -3278 Apr 28 j 18:02 | 10° $\mathbb{Y}$ 33'47 | 2°48'57                           |
|                     | -3281 Nov 20 j 20:13 | 0° $\mathbb{M}$               |            | -3278 Apr 28 j 23:49 | 10° $\mathbb{Y}$ 24'44 | 2°47'24                           |
| desc. node          | -3281 Nov 24 j 11:03 | 4° $\mathbb{M}$ 32'33         |            | -3278 Apr 29 j 09:31 | 10° $\mathbb{Y}$ 09'35 | 0.29079 AU                        |
| superior conj       | -3281 Dec 08 j 01:18 | 21° $\mathbb{M}$ 34'31        | -0°31'03   | -3278 May 05 j 03:17 | 6° $\mathbb{Y}$ 43'20  |                                   |
|                     | -3281 Dec 07 j 17:22 | 21° $\mathbb{M}$ 09'43        | 0°30'47    | -3278 May 11 j 05:18 | 3° $\mathbb{Y}$ 53'18  |                                   |
|                     | -3281 Dec 12 j 22:40 | 27° $\mathbb{M}$ 41'29        | 1.71590 AU | -3278 May 20 j 12:23 | 2° $\mathbb{Y}$ 10'58  |                                   |
|                     | -3281 Dec 14 j 19:01 | 0° $\mathbb{A}$               |            | -3278 May 31 j 10:12 | 4° $\mathbb{Y}$ 17'58  | -4.7m                             |
| evening rise        | -3280 Jan 07 j 20:49 | 0° $\mathbb{Z}$               |            | -3278 Jul 06 j 03:25 | 0° $\mathbb{B}$        |                                   |
|                     | -3280 Jan 18 j 03:52 | 12° $\mathbb{Z}$ 46'34        |            | -3278 Jul 08 j 17:57 | 2° $\mathbb{B}$ 29'45  | 46°05'46                          |
|                     | -3280 Feb 01 j 02:01 | 0° $\approx$                  |            | -3278 Aug 04 j 00:52 | 0° $\mathbb{I}$        |                                   |
|                     | -3280 Feb 25 j 11:41 | 0° $\mathbb{H}$               |            | -3278 Aug 30 j 03:04 | 0° $\mathbb{D}$        |                                   |
| asc. node           | -3280 Mar 16 j 08:39 | 24° $\mathbb{H}$ 12'39        |            | -3278 Sep 01 j 04:33 | 2° $\mathbb{D}$ 26'44  |                                   |
|                     | -3280 Mar 21 j 03:21 | 0° $\mathbb{Y}$               |            | -3278 Sep 23 j 23:30 | 0° $\mathbb{Q}$        |                                   |
|                     | -3280 Apr 15 j 03:02 | 0° $\mathbb{B}$               |            | -3278 Oct 18 j 05:20 | 0° $\mathbb{P}$        |                                   |
|                     | -3280 May 10 j 13:48 | 0° $\mathbb{I}$               |            | -3278 Nov 11 j 05:29 | 0° $\mathbb{L}$        |                                   |
| desc. node          | -3280 Jun 05 j 18:22 | 0° $\mathbb{D}$               |            | -3278 Dec 05 j 05:16 | 0° $\mathbb{M}$        |                                   |
|                     | -3280 Jul 03 j 11:22 | 0° $\mathbb{Q}$               |            | -3278 Dec 21 j 23:13 | 20° $\mathbb{M}$ 53'01 |                                   |
|                     | -3280 Jul 06 j 02:42 | 2° $\mathbb{Q}$ 42'18         |            | -3278 Dec 29 j 07:07 | 0° $\mathbb{A}$        |                                   |
|                     | -3280 Jul 13 j 23:43 | 10° $\mathbb{Q}$ 33'21        | 46°30'07   | -3277 Jan 12 j 04:04 | 17° $\mathbb{A}$ 13'29 |                                   |
| evening max el      | -3280 Aug 05 j 05:59 | 0° $\mathbb{P}$               |            | -3277 Jan 22 j 11:30 | 0° $\mathbb{Z}$        |                                   |
| greatest brilliancy | -3280 Aug 23 j 21:06 | 10° $\mathbb{P}$ 22'55        | -4.9m      | -3277 Feb 15 j 18:11 | 0° $\approx$           |                                   |
| retrograde          | -3280 Sep 01 j 19:21 | 11° $\mathbb{P}$ 51'50        |            |                      |                        |                                   |
| evening set         | -3280 Sep 18 j 16:41 | 6° $\mathbb{P}$ 28'05         |            | superior conj        | -3277 Feb 20 j 16:56   | 6° $\approx$ 06'07 -1°23'24       |
| inferior conj       | -3280 Sep 22 j 11:17 | 4° $\mathbb{P}$ 12'56         | -7°31'39   | minimum elong        | -3277 Feb 20 j 19:09   | 6° $\approx$ 12'57 1°23'30        |
| minimum elong       | -3280 Sep 22 j 21:22 | 3° $\mathbb{P}$ 57'37         | 7°29'49    | max. Earth dist.     | -3277 Feb 22 j 19:19   | 8° $\approx$ 41'21 1.73183 AU     |
| min. Earth dist.    | -3280 Sep 22 j 22:23 | 3° $\mathbb{P}$ 56'04         | 0.26639 AU |                      | -3277 Mar 12 j 02:52   | 0° $\mathbb{H}$                   |
| morning rise        | -3280 Sep 27 j 01:50 | 1° $\mathbb{P}$ 28'59         |            | evening rise         | -3277 Mar 30 j 03:10   | 22° $\mathbb{H}$ 07'03            |
| direct              | -3280 Sep 29 j 20:30 | 30° $\mathbb{R}$ $\mathbb{Q}$ |            |                      | -3277 Apr 05 j 13:31   | 0° $\mathbb{Y}$                   |
|                     | -3280 Oct 12 j 21:37 | 26° $\mathbb{Q}$ 34'52        |            | asc. node            | -3277 Apr 13 j 20:44   | 10° $\mathbb{Y}$ 09'55            |
|                     | -3280 Oct 23 j 13:48 | 28° $\mathbb{Q}$ 44'20        | -4.9m      |                      | -3277 Apr 30 j 02:09   | 0° $\mathbb{B}$                   |
|                     | -3280 Oct 26 j 11:59 | 0° $\mathbb{P}$               |            |                      | -3277 May 24 j 17:03   | 0° $\mathbb{I}$                   |
| asc. node           | -3280 Oct 27 j 01:21 | 0° $\mathbb{P}$ 16'05         |            |                      | -3277 Jun 18 j 11:10   | 0° $\mathbb{D}$                   |
| morning max el      | -3280 Dec 02 j 13:28 | 0° $\mathbb{L}$ 02'24         | 46°48'06   | desc. node           | -3277 Jul 13 j 10:48   | 0° $\mathbb{Q}$                   |
| desc. node          | -3280 Dec 02 j 12:31 | 0° $\mathbb{L}$               |            |                      | -3277 Aug 03 j 14:37   | 25° $\mathbb{Q}$ 02'02            |
|                     | -3280 Dec 30 j 05:58 | 0° $\mathbb{M}$               |            |                      | -3277 Aug 07 j 20:33   | 0° $\mathbb{P}$                   |
|                     | -3279 Jan 25 j 07:37 | 0° $\mathbb{A}$               |            |                      | -3277 Sep 03 j 02:29   | 0° $\mathbb{L}$                   |
|                     | -3279 Feb 15 j 20:54 | 25° $\mathbb{A}$ 21'18        |            | evening max el       | -3277 Sep 26 j 06:08   | 24° $\mathbb{L}$ 46'13 47°33'26   |
| morning set         | -3279 Feb 19 j 19:01 | 0° $\mathbb{Z}$               |            |                      | -3277 Oct 01 j 12:14   | 0° $\mathbb{M}$                   |
|                     | -3279 Mar 16 j 23:15 | 0° $\approx$                  |            | greatest brilliancy  | -3277 Nov 06 j 01:19   | 26° $\mathbb{M}$ 32'15 -4.9m      |
|                     | -3279 Apr 10 j 22:18 | 0° $\mathbb{H}$               |            | retrograde           | -3277 Nov 16 j 07:50   | 28° $\mathbb{M}$ 34'42            |
|                     | -3279 May 05 j 16:29 | 0° $\mathbb{Y}$               |            | asc. node            | -3277 Nov 24 j 12:59   | 27° $\mathbb{M}$ 09'14            |
| asc. node           | -3279 May 30 j 05:31 | 0° $\mathbb{B}$               |            | evening set          | -3277 Nov 30 j 22:19   | 24° $\mathbb{M}$ 14'26            |
|                     | -3279 Jun 01 j 21:57 | 3° $\mathbb{B}$ 17'57         |            | min. Earth dist.     | -3277 Dec 06 j 02:12   | 21° $\mathbb{M}$ 10'02 0.26906 AU |
|                     | -3279 Jun 08 j 18:56 | 11° $\mathbb{B}$ 45'41        |            | inferior conj        | -3277 Dec 07 j 00:55   | 20° $\mathbb{M}$ 34'40 3°05'51    |
|                     | -3279 Jun 23 j 13:11 | 0° $\mathbb{I}$               |            | minimum elong        | -3277 Dec 06 j 18:31   | 20° $\mathbb{M}$ 44'39 3°03'53    |
| max. Earth dist.    | -3279 Jul 03 j 18:43 | 12° $\mathbb{I}$ 41'59        | 1.72482 AU | morning rise         | -3277 Dec 12 j 15:31   | 17° $\mathbb{M}$ 13'25            |
| superior conj       | -3279 Jul 08 j 04:41 | 18° $\mathbb{I}$ 11'34        | 1°01'50    | direct               | -3277 Dec 27 j 10:16   | 12° $\mathbb{M}$ 50'08            |
|                     | -3279 Jul 07 j 19:53 | 17° $\mathbb{I}$ 44'11        | 1°01'39    | greatest brilliancy  | -3276 Jan 05 j 13:04   | 14° $\mathbb{M}$ 25'00 -4.8m      |
|                     | -3279 Jul 17 j 16:02 | 0° $\mathbb{D}$               |            |                      | -3276 Jan 30 j 11:04   | 0° $\mathbb{A}$                   |
|                     | -3279 Aug 10 j 15:41 | 0° $\mathbb{Q}$               |            | morning max el       | -3276 Feb 14 j 20:52   | 14° $\mathbb{A}$ 01'48 46°12'20   |
| evening rise        | -3279 Aug 14 j 03:08 | 4° $\mathbb{Q}$ 21'24         |            |                      | -3276 Mar 01 j 14:32   | 0° $\mathbb{Z}$                   |
|                     | -3279 Sep 03 j 14:18 | 0° $\mathbb{P}$               |            | desc. node           | -3276 Mar 15 j 08:33   | 14° $\mathbb{Z}$ 46'00            |
|                     | -3279 Sep 27 j 13:56 | 0° $\mathbb{L}$               |            |                      | -3276 Mar 29 j 01:51   | 0° $\approx$                      |
|                     | -3279 Sep 28 j 12:53 | 1° $\mathbb{L}$ 11'40         |            |                      | -3276 Apr 24 j 06:33   | 0° $\mathbb{H}$                   |
| desc. node          |                      |                               |            |                      | -3276 May 19 j 18:12   | 0° $\mathbb{Y}$                   |
|                     |                      |                               |            |                      | -3276 Jun 13 j 17:23   | 0° $\mathbb{B}$                   |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 26

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
| asc. node           | -3276 Jul 06 j 07:01 | 27° $\text{♄}$ 35'03 |            | retrograde          | -3273 Jan 26 j 00:06 | 10° $\text{♊}$ 13'24 |            |
|                     | -3276 Jul 08 j 06:05 | 0° $\text{♈}$        |            | evening set         | -3273 Feb 12 j 19:08 | 4° $\text{♊}$ 03'31  |            |
|                     | -3276 Aug 01 j 10:10 | 0° $\text{♎}$        |            | inferior conj       | -3273 Feb 16 j 07:07 | 1° $\text{♊}$ 50'19  | 8°20'35    |
| morning set         | -3276 Aug 09 j 21:15 | 10° $\text{♎}$ 35'05 |            | minimum elong       | -3273 Feb 16 j 07:47 | 1° $\text{♊}$ 49'16  | 8°20'30    |
|                     | -3276 Aug 25 j 08:14 | 0° $\text{♏}$        |            | min. Earth dist.    | -3273 Feb 15 j 21:26 | 2° $\text{♊}$ 05'52  | 0.28924 AU |
|                     |                      |                      |            |                     | -3273 Feb 19 j 04:39 | 30° $\text{♋}$       |            |
| superior conj       | -3276 Sep 17 j 13:35 | 29° $\text{♏}$ 16'26 | 1°14'07    | morning rise        | -3273 Feb 19 j 20:41 | 29° $\text{♋}$ 35'16 |            |
| minimum elong       | -3276 Sep 17 j 22:41 | 29° $\text{♏}$ 45'10 | 1°13'58    | direct              | -3273 Mar 09 j 16:21 | 23° $\text{♋}$ 32'34 |            |
| max. Earth dist.    | -3276 Sep 17 j 09:23 | 29° $\text{♏}$ 03'14 | 1.70980 AU | greatest brilliancy | -3273 Mar 18 j 21:25 | 25° $\text{♋}$ 05'48 | -4.7m      |
|                     | -3276 Sep 18 j 03:24 | 0° $\text{♌}$        |            |                     | -3273 Mar 29 j 09:28 | 0° $\text{♌}$        |            |
|                     | -3276 Oct 11 j 22:28 | 0° $\text{♍}$        |            | desc. node          | -3273 Apr 12 j 19:53 | 10° $\text{♌}$ 18'47 |            |
| desc. node          | -3276 Oct 26 j 01:03 | 17° $\text{♍}$ 44'44 |            | morning max el      | -3273 Apr 27 j 10:09 | 23° $\text{♌}$ 18'34 | 45°48'02   |
| evening rise        | -3276 Oct 29 j 04:57 | 21° $\text{♍}$ 43'06 |            |                     | -3273 May 04 j 06:58 | 0° $\text{♎}$        |            |
|                     | -3276 Nov 04 j 19:21 | 0° $\text{♎}$        |            |                     | -3273 Jun 01 j 15:26 | 0° $\text{♏}$        |            |
|                     | -3276 Nov 28 j 19:05 | 0° $\text{♐}$        |            |                     | -3273 Jun 27 j 23:21 | 0° $\text{♐}$        |            |
|                     | -3276 Dec 22 j 22:44 | 0° $\text{♑}$        |            |                     | -3273 Jul 23 j 05:29 | 0° $\text{♒}$        |            |
|                     | -3275 Jan 16 j 08:25 | 0° $\text{♋}$        |            | asc. node           | -3273 Aug 03 j 18:50 | 14° $\text{♒}$ 02'11 |            |
|                     | -3275 Feb 10 j 04:10 | 0° $\text{♌}$        |            |                     | -3273 Aug 16 j 18:36 | 0° $\text{♓}$        |            |
| asc. node           | -3275 Feb 15 j 22:31 | 6° $\text{♌}$ 51'49  |            |                     | -3273 Sep 09 j 20:32 | 0° $\text{♑}$        |            |
|                     | -3275 Mar 07 j 16:38 | 0° $\text{♏}$        |            |                     | -3273 Oct 03 j 16:36 | 0° $\text{♐}$        |            |
|                     | -3275 Apr 03 j 10:37 | 0° $\text{♐}$        |            | morning set         | -3273 Oct 24 j 08:03 | 26° $\text{♐}$ 02'59 |            |
| evening max el      | -3275 Apr 29 j 16:34 | 26° $\text{♐}$ 53'49 | 45°15'45   |                     | -3273 Oct 27 j 11:13 | 0° $\text{♑}$        |            |
|                     | -3275 May 03 j 00:00 | 0° $\text{♒}$        |            | desc. node          | -3273 Nov 20 j 07:16 | 0° $\text{♒}$        |            |
| greatest brilliancy | -3275 Jun 06 j 23:26 | 24° $\text{♒}$ 23'08 | -4.7m      |                     | -3273 Nov 23 j 13:15 | 4° $\text{♒}$ 04'48  |            |
| desc. node          | -3275 Jun 07 j 17:11 | 24° $\text{♒}$ 38'03 |            |                     |                      |                      |            |
| retrograde          | -3275 Jun 17 j 04:41 | 26° $\text{♒}$ 14'09 |            | superior conj       | -3273 Dec 05 j 10:59 | 19° $\text{♒}$ 00'13 | -0°27'22   |
| evening set         | -3275 Jul 02 j 23:27 | 21° $\text{♒}$ 32'53 |            | minimum elong       | -3273 Dec 05 j 03:52 | 18° $\text{♒}$ 37'57 | 0°27'08    |
| inferior conj       | -3275 Jul 08 j 08:30 | 18° $\text{♒}$ 22'29 | -6°29'21   | max. Earth dist.    | -3273 Dec 10 j 07:54 | 25° $\text{♒}$ 05'53 | 1.71537 AU |
| minimum elong       | -3275 Jul 07 j 22:12 | 18° $\text{♒}$ 38'11 | 6°27'10    |                     | -3273 Dec 14 j 06:01 | 0° $\text{♓}$        |            |
| min. Earth dist.    | -3275 Jul 08 j 15:25 | 18° $\text{♒}$ 11'56 | 0.28039 AU |                     | -3272 Jan 07 j 07:48 | 0° $\text{♑}$        |            |
| morning rise        | -3275 Jul 12 j 20:36 | 15° $\text{♒}$ 40'51 |            | evening rise        | -3272 Jan 15 j 16:25 | 10° $\text{♑}$ 22'34 |            |
| direct              | -3275 Jul 29 j 17:29 | 10° $\text{♒}$ 20'22 |            |                     | -3272 Jan 31 j 13:03 | 0° $\text{♋}$        |            |
| greatest brilliancy | -3275 Aug 09 j 16:03 | 12° $\text{♒}$ 32'05 | -4.8m      |                     | -3272 Feb 24 j 22:51 | 0° $\text{♌}$        |            |
|                     | -3275 Sep 04 j 14:39 | 0° $\text{♎}$        |            | asc. node           | -3272 Mar 15 j 10:37 | 23° $\text{♌}$ 44'02 |            |
| morning max el      | -3275 Sep 18 j 02:28 | 12° $\text{♎}$ 51'46 | 46°43'16   |                     | -3272 Mar 20 j 14:51 | 0° $\text{♏}$        |            |
| asc. node           | -3275 Sep 28 j 16:02 | 23° $\text{♎}$ 54'42 |            |                     | -3272 Apr 14 j 15:09 | 0° $\text{♐}$        |            |
|                     | -3275 Oct 04 j 05:56 | 0° $\text{♏}$        |            |                     | -3272 May 10 j 03:03 | 0° $\text{♑}$        |            |
|                     | -3275 Oct 30 j 08:06 | 0° $\text{♐}$        |            |                     | -3272 Jun 05 j 09:48 | 0° $\text{♒}$        |            |
|                     | -3275 Nov 24 j 06:59 | 0° $\text{♑}$        |            |                     | -3272 Jul 03 j 07:58 | 0° $\text{♓}$        |            |
|                     | -3275 Dec 18 j 20:44 | 0° $\text{♒}$        |            | desc. node          | -3272 Jul 05 j 04:51 | 1° $\text{♓}$ 53'48  |            |
|                     | -3274 Jan 12 j 08:36 | 0° $\text{♓}$        |            | evening max el      | -3272 Jul 11 j 11:12 | 8° $\text{♓}$ 06'17  | 46°26'58   |
| desc. node          | -3274 Jan 18 j 11:12 | 7° $\text{♓}$ 28'47  |            |                     | -3272 Aug 06 j 04:28 | 0° $\text{♑}$        |            |
|                     | -3274 Feb 05 j 20:50 | 0° $\text{♑}$        |            | greatest brilliancy | -3272 Aug 21 j 09:21 | 7° $\text{♑}$ 54'39  | -4.9m      |
|                     | -3274 Mar 02 j 09:28 | 0° $\text{♒}$        |            | retrograde          | -3272 Aug 30 j 06:49 | 9° $\text{♑}$ 23'12  |            |
| morning set         | -3274 Mar 24 j 17:45 | 27° $\text{♒}$ 20'25 |            | evening set         | -3272 Sep 16 j 07:53 | 3° $\text{♑}$ 54'28  |            |
|                     | -3274 Mar 26 j 21:54 | 0° $\text{♋}$        |            | inferior conj       | -3272 Sep 19 j 23:19 | 1° $\text{♑}$ 44'11  | -7°44'16   |
|                     | -3274 Apr 20 j 09:30 | 0° $\text{♌}$        |            | minimum elong       | -3272 Sep 20 j 09:00 | 1° $\text{♑}$ 29'30  | 7°42'38    |
| max. Earth dist.    | -3274 Apr 28 j 04:39 | 9° $\text{♌}$ 34'03  | 1.73691 AU | min. Earth dist.    | -3272 Sep 20 j 11:13 | 1° $\text{♑}$ 26'09  | 0.26678 AU |
|                     |                      |                      |            |                     | -3272 Sep 22 j 20:38 | 30° $\text{♒}$       |            |
| superior conj       | -3274 Apr 29 j 23:04 | 11° $\text{♌}$ 44'13 | -0°26'22   | morning rise        | -3272 Sep 24 j 09:53 | 29° $\text{♒}$ 06'01 |            |
| minimum elong       | -3274 Apr 30 j 04:03 | 11° $\text{♌}$ 59'31 | 0°26'07    | direct              | -3272 Oct 10 j 09:41 | 24° $\text{♒}$ 05'11 |            |
| asc. node           | -3274 May 11 j 08:57 | 25° $\text{♌}$ 45'40 |            | greatest brilliancy | -3272 Oct 21 j 03:43 | 26° $\text{♒}$ 16'20 | -4.9m      |
|                     | -3274 May 14 j 19:39 | 0° $\text{♐}$        |            | asc. node           | -3272 Oct 26 j 03:27 | 28° $\text{♒}$ 34'30 |            |
| evening rise        | -3274 Jun 04 j 15:37 | 25° $\text{♐}$ 39'39 |            |                     | -3272 Oct 28 j 16:17 | 0° $\text{♑}$        |            |
|                     | -3274 Jun 08 j 04:01 | 0° $\text{♒}$        |            | morning max el      | -3272 Nov 30 j 02:38 | 27° $\text{♑}$ 35'10 | 46°49'07   |
|                     | -3274 Jul 02 j 10:52 | 0° $\text{♓}$        |            |                     | -3272 Dec 02 j 11:05 | 0° $\text{♑}$        |            |
|                     | -3274 Jul 26 j 17:24 | 0° $\text{♑}$        |            |                     | -3272 Dec 29 j 22:20 | 0° $\text{♒}$        |            |
|                     | -3274 Aug 20 j 01:29 | 0° $\text{♓}$        |            |                     | -3271 Jan 24 j 21:33 | 0° $\text{♓}$        |            |
| desc. node          | -3274 Aug 31 j 02:46 | 13° $\text{♓}$ 33'55 |            | desc. node          | -3271 Feb 14 j 22:57 | 24° $\text{♓}$ 49'30 |            |
|                     | -3274 Sep 13 j 13:28 | 0° $\text{♑}$        |            |                     | -3271 Feb 19 j 07:39 | 0° $\text{♑}$        |            |
|                     | -3274 Oct 08 j 08:38 | 0° $\text{♒}$        |            |                     | -3271 Mar 16 j 11:07 | 0° $\text{♓}$        |            |
|                     | -3274 Nov 02 j 18:19 | 0° $\text{♓}$        |            |                     | -3271 Apr 10 j 09:42 | 0° $\text{♑}$        |            |
|                     | -3274 Nov 29 j 15:34 | 0° $\text{♑}$        |            |                     | -3271 May 05 j 03:35 | 0° $\text{♒}$        |            |
| evening max el      | -3274 Dec 06 j 12:14 | 7° $\text{♑}$ 07'58  | 46°49'46   |                     | -3271 May 29 j 16:27 | 0° $\text{♓}$        |            |
| asc. node           | -3274 Dec 22 j 00:49 | 21° $\text{♑}$ 54'16 |            | morning set         | -3271 May 30 j 16:23 | 1° $\text{♓}$ 13'29  |            |
|                     | -3273 Jan 01 j 02:58 | 0° $\text{♋}$        |            | asc. node           | -3271 Jun 07 j 21:08 | 11° $\text{♓}$ 18'52 |            |
| greatest brilliancy | -3273 Jan 15 j 03:41 | 8° $\text{♋}$ 00'52  | -4.8m      |                     | -3271 Jun 23 j 00:04 | 0° $\text{♒}$        |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                      |            |                     |                      |                                      |            |
|---------------------|----------------------|--------------------------------------|------------|---------------------|----------------------|--------------------------------------|------------|
| max. Earth dist.    | -3271 Jul 01 j 14:35 | 10° $\Pi$ 40'37                      | 1.72542 AU | direct              | -3269 Dec 24 j 23:33 | 10° $\mathbb{M}$ 24'43               |            |
|                     |                      |                                      |            | greatest brilliancy | -3268 Jan 03 j 02:15 | 11° $\mathbb{M}$ 59'51               | -4.9m      |
| superior conj       | -3271 Jul 05 j 22:02 | 16° $\Pi$ 02'13                      | 0°59'36    |                     | -3268 Jan 30 j 19:16 | 0° $\mathcal{A}$                     |            |
| minimum elong       | -3271 Jul 05 j 13:15 | 15° $\Pi$ 34'53                      | 0°59'25    | morning max el      | -3268 Feb 12 j 11:27 | 11° $\mathcal{A}$ 43'40              | 46°13'45   |
|                     | -3271 Jul 17 j 03:00 | 0° $\mathfrak{D}$                    |            |                     | -3268 Mar 01 j 08:58 | 0° $\mathfrak{Z}$                    |            |
|                     | -3271 Aug 10 j 02:48 | 0° $\Omega$                          |            | desc. node          | -3268 Mar 14 j 10:35 | 14° $\mathfrak{Z}$ 07'19             |            |
| evening rise        | -3271 Aug 11 j 17:50 | 2° $\Omega$ 02'12                    |            |                     | -3268 Mar 28 j 16:29 | 0° $\approx$                         |            |
|                     | -3271 Sep 03 j 01:38 | 0° $\mathbb{M}$                      |            |                     | -3268 Apr 23 j 19:28 | 0° $\mathcal{H}$                     |            |
|                     | -3271 Sep 27 j 01:31 | 0° $\underline{\mathfrak{A}}$        |            |                     | -3268 May 19 j 06:13 | 0° $\mathcal{Y}$                     |            |
| desc. node          | -3271 Sep 27 j 14:54 | 0° $\underline{\mathfrak{A}}$ 41'47  |            |                     | -3268 Jun 13 j 04:54 | 0° $\mathcal{B}$                     |            |
|                     | -3271 Oct 21 j 03:58 | 0° $\mathbb{M}$                      |            | asc. node           | -3268 Jul 05 j 09:04 | 27° $\mathcal{B}$ 06'30              |            |
|                     | -3271 Nov 14 j 10:47 | 0° $\mathcal{A}$                     |            |                     | -3268 Jul 07 j 17:23 | 0° $\Pi$                             |            |
|                     | -3271 Dec 09 j 01:40 | 0° $\mathfrak{Z}$                    |            |                     | -3268 Jul 31 j 21:24 | 0° $\mathfrak{D}$                    |            |
|                     | -3270 Jan 03 j 08:49 | 0° $\approx$                         |            | morning set         | -3268 Aug 07 j 12:11 | 8° $\mathfrak{D}$ 16'26              |            |
| asc. node           | -3270 Jan 18 j 12:32 | 17° $\approx$ 17'06                  |            |                     | -3268 Aug 24 j 19:28 | 0° $\Omega$                          |            |
|                     | -3270 Jan 30 j 03:15 | 0° $\mathcal{H}$                     |            | max. Earth dist.    | -3268 Sep 14 j 12:59 | 26° $\Omega$ 07'40                   | 1.71003 AU |
| evening max el      | -3270 Feb 15 j 08:40 | 16° $\mathcal{H}$ 37'32              | 45°28'49   |                     |                      |                                      |            |
|                     | -3270 Mar 02 j 03:24 | 0° $\mathcal{Y}$                     |            | superior conj       | -3268 Sep 15 j 01:31 | 26° $\Omega$ 47'12                   | 1°15'49    |
| greatest brilliancy | -3270 Mar 25 j 05:10 | 14° $\mathcal{Y}$ 31'47              | -4.7m      | minimum elong       | -3268 Sep 15 j 10:00 | 27° $\Omega$ 13'57                   | 1°15'42    |
| retrograde          | -3270 Apr 04 j 23:49 | 16° $\mathcal{Y}$ 37'25              |            |                     | -3268 Sep 17 j 14:40 | 0° $\mathbb{M}$                      |            |
| evening set         | -3270 Apr 20 j 14:23 | 11° $\mathcal{Y}$ 56'38              |            |                     | -3268 Oct 11 j 09:49 | 0° $\underline{\mathfrak{A}}$        |            |
| inferior conj       | -3270 Apr 26 j 10:40 | 8° $\mathcal{Y}$ 25'38               | 3°06'46    | desc. node          | -3268 Oct 25 j 03:14 | 17° $\underline{\mathfrak{A}}$ 15'44 |            |
| minimum elong       | -3270 Apr 26 j 16:59 | 8° $\mathcal{Y}$ 15'47               | 3°05'07    | evening rise        | -3268 Oct 26 j 13:32 | 19° $\underline{\mathfrak{A}}$ 03'27 |            |
| min. Earth dist.    | -3270 Apr 27 j 01:51 | 8° $\mathcal{Y}$ 01'54               | 0.29109 AU |                     | -3268 Nov 04 j 06:47 | 0° $\mathbb{M}$                      |            |
| morning rise        | -3270 May 02 j 19:10 | 4° $\mathcal{Y}$ 36'21               |            |                     | -3268 Nov 28 j 06:38 | 0° $\mathcal{A}$                     |            |
| desc. node          | -3270 May 10 j 07:33 | 1° $\mathcal{Y}$ 16'41               |            |                     | -3268 Dec 22 j 10:26 | 0° $\mathfrak{Z}$                    |            |
| direct              | -3270 May 18 j 05:19 | 0° $\mathcal{Y}$ 02'18               |            |                     | -3267 Jan 15 j 20:23 | 0° $\approx$                         |            |
| greatest brilliancy | -3270 May 29 j 02:05 | 2° $\mathcal{Y}$ 08'45               | -4.7m      |                     | -3267 Feb 09 j 16:41 | 0° $\mathcal{H}$                     |            |
|                     | -3270 Jul 06 j 02:21 | 0° $\mathcal{B}$                     |            | asc. node           | -3267 Feb 15 j 00:33 | 6° $\mathcal{H}$ 20'06               |            |
| morning max el      | -3270 Jul 06 j 11:09 | 0° $\mathcal{B}$ 21'15               | 46°04'33   |                     | -3267 Mar 07 j 06:21 | 0° $\mathcal{Y}$                     |            |
|                     | -3270 Aug 03 j 16:54 | 0° $\Pi$                             |            |                     | -3267 Apr 03 j 03:07 | 0° $\mathcal{B}$                     |            |
|                     | -3270 Aug 29 j 16:48 | 0° $\mathfrak{D}$                    |            | evening max el      | -3267 Apr 27 j 07:34 | 24° $\mathcal{B}$ 40'21              | 45°14'31   |
| asc. node           | -3270 Aug 31 j 06:37 | 1° $\mathfrak{D}$ 52'23              |            |                     | -3267 May 03 j 01:22 | 0° $\Pi$                             |            |
|                     | -3270 Sep 23 j 12:11 | 0° $\Omega$                          |            | greatest brilliancy | -3267 Jun 04 j 13:13 | 22° $\Pi$ 07'30                      | -4.7m      |
|                     | -3270 Oct 17 j 17:28 | 0° $\mathbb{M}$                      |            | desc. node          | -3267 Jun 06 j 19:15 | 22° $\Pi$ 49'53                      |            |
|                     | -3270 Nov 10 j 17:17 | 0° $\underline{\mathfrak{A}}$        |            | retrograde          | -3267 Jun 14 j 18:12 | 23° $\Pi$ 58'30                      |            |
|                     | -3270 Dec 04 j 16:49 | 0° $\mathbb{M}$                      |            | evening set         | -3267 Jun 30 j 10:55 | 19° $\Pi$ 21'18                      |            |
| desc. node          | -3270 Dec 21 j 01:19 | 20° $\mathbb{M}$ 24'04               |            | inferior conj       | -3267 Jul 05 j 23:06 | 16° $\Pi$ 06'25                      | -6°14'20   |
|                     | -3270 Dec 28 j 18:26 | 0° $\mathcal{A}$                     |            | minimum elong       | -3267 Jul 05 j 12:48 | 16° $\Pi$ 22'10                      | 6°12'03    |
| morning set         | -3269 Jan 09 j 15:49 | 14° $\mathcal{A}$ 46'11              |            | min. Earth dist.    | -3267 Jul 06 j 06:23 | 15° $\Pi$ 55'18                      | 0.28083 AU |
|                     | -3269 Jan 21 j 22:39 | 0° $\mathfrak{Z}$                    |            | morning rise        | -3267 Jul 10 j 14:15 | 13° $\Pi$ 20'01                      |            |
|                     | -3269 Feb 15 j 05:11 | 0° $\approx$                         |            | direct              | -3267 Jul 27 j 08:26 | 8° $\Pi$ 03'28                       |            |
|                     |                      |                                      |            | greatest brilliancy | -3267 Aug 07 j 07:33 | 10° $\Pi$ 14'57                      | -4.8m      |
| superior conj       | -3269 Feb 18 j 08:32 | 3° $\approx$ 52'24                   | -1°23'44   |                     | -3267 Sep 04 j 19:41 | 0° $\mathfrak{D}$                    |            |
| minimum elong       | -3269 Feb 18 j 10:00 | 3° $\approx$ 56'54                   | 1°23'50    | morning max el      | -3267 Sep 15 j 15:39 | 10° $\mathfrak{D}$ 26'44             | 46°42'08   |
| max. Earth dist.    | -3269 Feb 20 j 14:21 | 6° $\approx$ 38'19                   | 1.73139 AU | asc. node           | -3267 Sep 27 j 18:11 | 23° $\mathfrak{D}$ 08'37             |            |
|                     | -3269 Mar 11 j 13:49 | 0° $\mathcal{H}$                     |            |                     | -3267 Oct 03 j 23:57 | 0° $\Omega$                          |            |
| evening rise        | -3269 Mar 27 j 21:09 | 20° $\mathcal{H}$ 01'25              |            |                     | -3267 Oct 29 j 22:58 | 0° $\mathbb{M}$                      |            |
|                     | -3269 Apr 05 j 00:31 | 0° $\mathcal{Y}$                     |            |                     | -3267 Nov 23 j 20:25 | 0° $\underline{\mathfrak{A}}$        |            |
| asc. node           | -3269 Apr 12 j 22:53 | 9° $\mathcal{Y}$ 42'40               |            |                     | -3267 Dec 18 j 09:21 | 0° $\mathbb{M}$                      |            |
|                     | -3269 Apr 29 j 13:21 | 0° $\mathcal{B}$                     |            |                     | -3266 Jan 11 j 20:40 | 0° $\mathcal{A}$                     |            |
|                     | -3269 May 24 j 04:39 | 0° $\Pi$                             |            | desc. node          | -3266 Jan 17 j 13:12 | 6° $\mathcal{A}$ 58'22               |            |
|                     | -3269 Jun 17 j 23:24 | 0° $\mathfrak{D}$                    |            |                     | -3266 Feb 05 j 08:29 | 0° $\mathfrak{Z}$                    |            |
|                     | -3269 Jul 12 j 23:59 | 0° $\Omega$                          |            |                     | -3266 Mar 01 j 20:47 | 0° $\approx$                         |            |
| desc. node          | -3269 Aug 02 j 16:38 | 24° $\Omega$ 25'53                   |            | morning set         | -3266 Mar 22 j 11:23 | 25° $\approx$ 13'27                  |            |
|                     | -3269 Aug 07 j 11:17 | 0° $\mathbb{M}$                      |            |                     | -3266 Mar 26 j 09:00 | 0° $\mathcal{H}$                     |            |
|                     | -3269 Sep 02 j 20:12 | 0° $\underline{\mathfrak{A}}$        |            |                     | -3266 Apr 19 j 20:28 | 0° $\mathcal{Y}$                     |            |
| evening max el      | -3269 Sep 23 j 21:39 | 22° $\underline{\mathfrak{A}}$ 25'09 | 47°32'55   | max. Earth dist.    | -3266 Apr 26 j 01:17 | 7° $\mathcal{Y}$ 36'27               | 1.73698 AU |
|                     | -3269 Oct 01 j 14:26 | 0° $\mathbb{M}$                      |            |                     |                      |                                      |            |
| greatest brilliancy | -3269 Nov 03 j 15:38 | 24° $\mathbb{M}$ 05'06               | -4.9m      | superior conj       | -3266 Apr 27 j 18:04 | 9° $\mathcal{Y}$ 41'36               | -0°29'14   |
| retrograde          | -3269 Nov 13 j 22:12 | 26° $\mathbb{M}$ 06'58               |            | minimum elong       | -3266 Apr 27 j 23:32 | 9° $\mathcal{Y}$ 58'24               | 0°28'59    |
| asc. node           | -3269 Nov 23 j 15:13 | 24° $\mathbb{M}$ 07'54               |            | asc. node           | -3266 May 10 j 11:10 | 25° $\mathcal{Y}$ 18'45              |            |
| evening set         | -3269 Nov 28 j 10:48 | 21° $\mathbb{M}$ 48'46               |            |                     | -3266 May 14 j 06:37 | 0° $\mathcal{B}$                     |            |
| min. Earth dist.    | -3269 Dec 03 j 15:58 | 18° $\mathbb{M}$ 42'30               | 0.26842 AU | evening rise        | -3266 Jun 02 j 11:10 | 23° $\mathcal{B}$ 37'51              |            |
| inferior conj       | -3269 Dec 04 j 14:09 | 18° $\mathbb{M}$ 07'59               | 2°44'11    |                     | -3266 Jun 07 j 15:06 | 0° $\Pi$                             |            |
| minimum elong       | -3269 Dec 04 j 08:24 | 18° $\mathbb{M}$ 16'56               | 2°42'22    |                     | -3266 Jul 01 j 22:12 | 0° $\mathfrak{D}$                    |            |
| morning rise        | -3269 Dec 10 j 06:55 | 14° $\mathbb{M}$ 44'16               |            |                     | -3266 Jul 26 j 05:05 | 0° $\Omega$                          |            |

|                     |                      |           |            |                     |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|--|
|                     | -3266 Aug 19 j 13:42 | 0°♐       |            |                     | -3263 Jan 24 j 11:37 | 0°♏       |            |  |
| desc. node          | -3266 Aug 30 j 04:48 | 13°♐01'55 |            | desc. node          | -3263 Feb 14 j 01:04 | 24°♏17'18 |            |  |
|                     | -3266 Sep 13 j 02:21 | 0°♑       |            |                     | -3263 Feb 18 j 20:26 | 0°♎       |            |  |
|                     | -3266 Oct 07 j 22:32 | 0°♒       |            |                     | -3263 Mar 15 j 23:06 | 0°♍       |            |  |
|                     | -3266 Nov 02 j 10:00 | 0°♌       |            |                     | -3263 Apr 09 j 21:10 | 0°♋       |            |  |
|                     | -3266 Nov 29 j 11:39 | 0°♉       |            |                     | -3263 May 04 j 14:45 | 0°♊       |            |  |
| evening max el      | -3266 Dec 04 j 02:32 | 4°♈46'32  | 46°52'40   | morning set         | -3263 May 28 j 11:05 | 29°♊09'48 |            |  |
| asc. node           | -3266 Dec 21 j 02:51 | 20°♈51'58 |            |                     | -3263 May 29 j 03:26 | 0°♏       |            |  |
|                     | -3265 Jan 02 j 00:53 | 0°♍       |            | asc. node           | -3263 Jun 06 j 23:10 | 10°♏51'19 |            |  |
| greatest brilliancy | -3265 Jan 12 j 21:12 | 5°♍48'37  | -4.8m      |                     | -3263 Jun 22 j 11:00 | 0°♐       |            |  |
| retrograde          | -3265 Jan 23 j 16:23 | 8°♍00'40  |            | max. Earth dist.    | -3263 Jun 29 j 09:54 | 8°♐37'31  | 1.72596 AU |  |
| evening set         | -3265 Feb 10 j 11:18 | 1°♍51'31  |            |                     |                      |           |            |  |
|                     | -3265 Feb 13 j 09:51 | 30°♓      |            | superior conj       | -3263 Jul 03 j 15:52 | 13°♐54'19 | 0°57'19    |  |
| inferior conj       | -3265 Feb 13 j 23:38 | 29°♓37'53 | 8°21'31    | minimum elong       | -3263 Jul 03 j 07:09 | 13°♐27'13 | 0°57'06    |  |
| minimum elong       | -3265 Feb 13 j 23:33 | 29°♓38'01 | 8°21'25    |                     | -3263 Jul 16 j 13:58 | 0°♑       |            |  |
| min. Earth dist.    | -3265 Feb 13 j 13:03 | 29°♓54'51 | 0.28875 AU | evening rise        | -3263 Aug 09 j 09:13 | 29°♑45'20 |            |  |
| morning rise        | -3265 Feb 17 j 12:00 | 27°♓24'33 |            |                     | -3263 Aug 09 j 13:54 | 0°♒       |            |  |
| direct              | -3265 Mar 07 j 07:34 | 21°♓20'53 |            |                     | -3263 Sep 02 j 12:56 | 0°♑       |            |  |
| greatest brilliancy | -3265 Mar 16 j 12:32 | 22°♓53'45 | -4.7m      | desc. node          | -3263 Sep 26 j 17:07 | 0°♑12'42  |            |  |
|                     | -3265 Mar 30 j 13:16 | 0°♒       |            |                     | -3263 Sep 26 j 13:03 | 0°♑       |            |  |
| desc. node          | -3265 Apr 11 j 22:08 | 9°♒19'03  |            |                     | -3263 Oct 20 j 15:48 | 0°♒       |            |  |
| morning max el      | -3265 Apr 25 j 01:06 | 21°♒05'41 | 45°48'22   |                     | -3263 Nov 13 j 23:03 | 0°♌       |            |  |
|                     | -3265 May 04 j 03:00 | 0°♋       |            |                     | -3263 Dec 08 j 14:39 | 0°♈       |            |  |
|                     | -3265 Jun 01 j 06:30 | 0°♊       |            |                     | -3262 Jan 02 j 23:11 | 0°♍       |            |  |
|                     | -3265 Jun 27 j 12:29 | 0°♏       |            | asc. node           | -3262 Jan 17 j 14:38 | 16°♍38'53 |            |  |
|                     | -3265 Jul 22 j 17:41 | 0°♐       |            |                     | -3262 Jan 29 j 20:59 | 0°♋       |            |  |
| asc. node           | -3265 Aug 02 j 20:57 | 13°♐32'13 |            | evening max el      | -3262 Feb 13 j 01:07 | 14°♋27'30 | 45°30'58   |  |
|                     | -3265 Aug 16 j 06:19 | 0°♑       |            |                     | -3262 Mar 02 j 11:37 | 0°♊       |            |  |
|                     | -3265 Sep 09 j 08:02 | 0°♒       |            | greatest brilliancy | -3262 Mar 22 j 21:13 | 12°♊23'37 | -4.7m      |  |
|                     | -3265 Oct 03 j 04:01 | 0°♑       |            | retrograde          | -3262 Apr 02 j 16:50 | 14°♊29'51 |            |  |
| morning set         | -3265 Oct 21 j 18:20 | 23°♑28'02 |            | evening set         | -3262 Apr 18 j 09:03 | 9°♊45'58  |            |  |
|                     | -3265 Oct 26 j 22:37 | 0°♑       |            | inferior conj       | -3262 Apr 24 j 03:18 | 6°♊17'19  | 3°24'20    |  |
|                     | -3265 Nov 19 j 18:39 | 0°♒       |            | minimum elong       | -3262 Apr 24 j 10:04 | 6°♊06'43  | 3°22'35    |  |
| desc. node          | -3265 Nov 22 j 15:22 | 3°♒35'44  |            | min. Earth dist.    | -3262 Apr 24 j 18:00 | 5°♊54'19  | 0.29132 AU |  |
|                     |                      |           |            | morning rise        | -3262 Apr 30 j 10:49 | 2°♊29'21  |            |  |
| superior conj       | -3265 Dec 02 j 20:04 | 16°♒22'56 | -0°23'34   |                     | -3262 May 05 j 14:40 | 30°♓♋     |            |  |
| minimum elong       | -3265 Dec 02 j 13:50 | 16°♒03'24 | 0°23'21    | desc. node          | -3262 May 09 j 09:39 | 28°♋44'31 |            |  |
| max. Earth dist.    | -3265 Dec 07 j 12:49 | 22°♒15'45 | 1.71484 AU | direct              | -3262 May 15 j 22:29 | 27°♋53'43 |            |  |
|                     | -3265 Dec 13 j 17:20 | 0°♌       |            | greatest brilliancy | -3262 May 26 j 17:21 | 29°♋58'51 | -4.7m      |  |
|                     | -3264 Jan 06 j 19:03 | 0°♈       |            |                     | -3262 May 26 j 18:36 | 0°♊       |            |  |
| evening rise        | -3264 Jan 13 j 04:27 | 7°♈56'07  |            | morning max el      | -3262 Jul 04 j 04:08 | 28°♊12'34 | 46°03'24   |  |
|                     | -3264 Jan 31 j 00:19 | 0°♍       |            |                     | -3262 Jul 06 j 00:18 | 0°♏       |            |  |
|                     | -3264 Feb 24 j 10:16 | 0°♋       |            |                     | -3262 Aug 03 j 08:35 | 0°♐       |            |  |
| asc. node           | -3264 Mar 14 j 12:48 | 23°♋15'24 |            |                     | -3262 Aug 29 j 06:17 | 0°♑       |            |  |
|                     | -3264 Mar 20 j 02:35 | 0°♊       |            | asc. node           | -3262 Aug 30 j 08:46 | 1°♑18'50  |            |  |
|                     | -3264 Apr 14 j 03:30 | 0°♏       |            |                     | -3262 Sep 23 j 00:39 | 0°♒       |            |  |
|                     | -3264 May 09 j 16:33 | 0°♐       |            |                     | -3262 Oct 17 j 05:24 | 0°♑       |            |  |
|                     | -3264 Jun 05 j 01:32 | 0°♑       |            |                     | -3262 Nov 10 j 04:53 | 0°♑       |            |  |
|                     | -3264 Jul 03 j 05:15 | 0°♒       |            |                     | -3262 Dec 04 j 04:12 | 0°♒       |            |  |
| desc. node          | -3264 Jul 04 j 06:54 | 1°♒04'17  |            | desc. node          | -3262 Dec 20 j 03:19 | 19°♒55'09 |            |  |
| evening max el      | -3264 Jul 08 j 23:39 | 5°♒42'01  | 46°23'57   |                     | -3262 Dec 28 j 05:39 | 0°♌       |            |  |
|                     | -3264 Aug 07 j 10:59 | 0°♑       |            | morning set         | -3261 Jan 07 j 03:14 | 12°♌18'02 |            |  |
| greatest brilliancy | -3264 Aug 18 j 20:56 | 5°♑26'27  | -4.9m      |                     | -3261 Jan 21 j 09:44 | 0°♈       |            |  |
| retrograde          | -3264 Aug 27 j 18:58 | 6°♑55'28  |            |                     | -3261 Feb 14 j 16:09 | 0°♍       |            |  |
| evening set         | -3264 Sep 13 j 23:08 | 1°♑21'42  |            |                     |                      |           |            |  |
|                     | -3264 Sep 16 j 06:25 | 30°♓♒     |            | superior conj       | -3261 Feb 15 j 23:30 | 1°♍36'44  | -1°23'56   |  |
| inferior conj       | -3264 Sep 17 j 11:34 | 29°♒16'01 | -7°55'49   | minimum elong       | -3261 Feb 16 j 00:10 | 1°♍38'46  | 1°24'02    |  |
| minimum elong       | -3264 Sep 17 j 20:47 | 29°♒02'05 | 7°54'22    | max. Earth dist.    | -3261 Feb 18 j 09:35 | 4°♍35'50  | 1.73096 AU |  |
| min. Earth dist.    | -3264 Sep 17 j 23:47 | 28°♒57'32 | 0.26726 AU |                     | -3261 Mar 11 j 00:43 | 0°♋       |            |  |
| morning rise        | -3264 Sep 21 j 18:11 | 26°♒43'44 |            | evening rise        | -3261 Mar 25 j 14:31 | 17°♋54'03 |            |  |
| direct              | -3264 Oct 07 j 22:37 | 21°♒36'05 |            |                     | -3261 Apr 04 j 11:27 | 0°♊       |            |  |
| greatest brilliancy | -3264 Oct 18 j 17:29 | 23°♒48'22 | -4.9m      | asc. node           | -3261 Apr 12 j 01:02 | 9°♊15'38  |            |  |
| asc. node           | -3264 Oct 25 j 05:43 | 26°♒57'01 |            |                     | -3261 Apr 29 j 00:29 | 0°♏       |            |  |
|                     | -3264 Oct 30 j 02:50 | 0°♑       |            |                     | -3261 May 23 j 16:10 | 0°♐       |            |  |
| morning max el      | -3264 Nov 27 j 16:59 | 25°♑10'18 | 46°49'45   |                     | -3261 Jun 17 j 11:33 | 0°♑       |            |  |
|                     | -3264 Dec 02 j 09:03 | 0°♑       |            |                     | -3261 Jul 12 j 13:06 | 0°♒       |            |  |
|                     | -3264 Dec 29 j 14:43 | 0°♒       |            | desc. node          | -3261 Aug 01 j 18:46 | 23°♒50'24 |            |  |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|
|                     | -3261 Aug 07 j 01:58 | 0°♐       |            |                     |  | -3258 Mar 25 j 19:44 | 0°♐       |            |
|                     | -3261 Sep 02 j 14:00 | 0°♑       |            |                     |  | -3258 Apr 19 j 07:08 | 0°♑       |            |
| evening max el      | -3261 Sep 21 j 13:16 | 20°♑05'19 | 47°32'20   | max. Earth dist.    |  | -3258 Apr 23 j 21:28 | 5°♑38'26  | 1.73712 AU |
|                     | -3261 Oct 01 j 17:38 | 0°♒       |            |                     |  |                      |           |            |
| greatest brilliancy | -3261 Nov 01 j 06:30 | 21°♒40'02 | -4.9m      | superior conj       |  | -3258 Apr 25 j 12:56 | 7°♑39'32  | -0°32'05   |
| retrograde          | -3261 Nov 11 j 12:20 | 23°♒40'31 |            | minimum elong       |  | -3258 Apr 25 j 18:52 | 7°♑57'44  | 0°31'48    |
| asc. node           | -3261 Nov 22 j 17:11 | 21°♒03'28 |            | asc. node           |  | -3258 May 09 j 13:11 | 24°♑52'06 |            |
| evening set         | -3261 Nov 25 j 23:41 | 19°♒24'24 |            |                     |  | -3258 May 13 j 17:19 | 0°♒       |            |
| min. Earth dist.    | -3261 Dec 01 j 06:11 | 16°♒16'07 | 0.26782 AU | evening rise        |  | -3258 May 31 j 06:30 | 21°♒36'21 |            |
| inferior conj       | -3261 Dec 02 j 03:34 | 15°♒42'51 | 2°22'12    |                     |  | -3258 Jun 07 j 01:56 | 0°♒       |            |
| minimum elong       | -3261 Dec 01 j 22:31 | 15°♒50'42 | 2°20'35    |                     |  | -3258 Jul 01 j 09:15 | 0°♒       |            |
| morning rise        | -3261 Dec 07 j 22:17 | 12°♒16'36 |            |                     |  | -3258 Jul 25 j 16:30 | 0°♒       |            |
| direct              | -3261 Dec 22 j 12:53 | 8°♒00'53  |            |                     |  | -3258 Aug 19 j 01:36 | 0°♒       |            |
| greatest brilliancy | -3261 Dec 31 j 16:00 | 9°♒36'24  | -4.9m      | desc. node          |  | -3258 Aug 29 j 07:00 | 12°♒31'25 |            |
|                     | -3260 Jan 31 j 00:45 | 0°♒       |            |                     |  | -3258 Sep 12 j 14:58 | 0°♒       |            |
| morning max el      | -3260 Feb 10 j 01:18 | 9°♒24'20  | 46°14'52   |                     |  | -3258 Oct 07 j 12:10 | 0°♒       |            |
|                     | -3260 Mar 01 j 02:44 | 0°♒       |            |                     |  | -3258 Nov 02 j 01:31 | 0°♒       |            |
| desc. node          | -3260 Mar 13 j 12:47 | 13°♒30'01 |            |                     |  | -3258 Nov 29 j 07:56 | 0°♒       |            |
|                     | -3260 Mar 28 j 06:48 | 0°♒       |            | evening max el      |  | -3258 Dec 01 j 17:03 | 2°♒26'43  | 46°55'36   |
|                     | -3260 Apr 23 j 08:10 | 0°♒       |            | asc. node           |  | -3258 Dec 20 j 05:02 | 19°♒49'43 |            |
|                     | -3260 May 18 j 18:01 | 0°♑       |            |                     |  | -3257 Jan 03 j 06:22 | 0°♒       |            |
|                     | -3260 Jun 12 j 16:12 | 0°♒       |            | greatest brilliancy |  | -3257 Jan 10 j 14:11 | 3°♒36'52  | -4.8m      |
| asc. node           | -3260 Jul 04 j 11:08 | 26°♒38'48 |            | retrograde          |  | -3257 Jan 21 j 09:03 | 5°♒49'18  |            |
|                     | -3260 Jul 07 j 04:26 | 0°♒       |            |                     |  | -3257 Feb 07 j 14:49 | 30°♒      |            |
|                     | -3260 Jul 31 j 08:21 | 0°♒       |            | evening set         |  | -3257 Feb 08 j 03:11 | 29°♒41'05 |            |
| morning set         | -3260 Aug 05 j 03:08 | 5°♒58'47  |            | min. Earth dist.    |  | -3257 Feb 11 j 04:34 | 27°♒45'15 | 0.28825 AU |
|                     | -3260 Aug 24 j 06:25 | 0°♒       |            | inferior conj       |  | -3257 Feb 11 j 16:09 | 27°♒26'40 | 8°21'35    |
| max. Earth dist.    | -3260 Sep 11 j 14:45 | 23°♒07'15 | 1.71029 AU | minimum elong       |  | -3257 Feb 11 j 15:21 | 27°♒27'57 | 8°21'28    |
|                     |                      |           |            | morning rise        |  | -3257 Feb 15 j 03:45 | 25°♒14'39 |            |
| superior conj       | -3260 Sep 12 j 13:49 | 24°♒19'58 | 1°17'22    | direct              |  | -3257 Mar 04 j 22:42 | 19°♒10'20 |            |
| minimum elong       | -3260 Sep 12 j 21:38 | 24°♒44'36 | 1°17'17    | greatest brilliancy |  | -3257 Mar 14 j 03:38 | 20°♒43'05 | -4.7m      |
|                     | -3260 Sep 17 j 01:40 | 0°♒       |            |                     |  | -3257 Mar 31 j 08:52 | 0°♒       |            |
|                     | -3260 Oct 10 j 20:53 | 0°♒       |            | desc. node          |  | -3257 Apr 11 j 00:12 | 8°♒21'37  |            |
| evening rise        | -3260 Oct 23 j 22:25 | 16°♒25'41 |            | morning max el      |  | -3257 Apr 22 j 16:50 | 18°♒55'48 | 45°48'36   |
| desc. node          | -3260 Oct 24 j 05:20 | 16°♒47'25 |            |                     |  | -3257 May 03 j 22:02 | 0°♒       |            |
|                     | -3260 Nov 03 j 17:55 | 0°♒       |            |                     |  | -3257 May 31 j 21:04 | 0°♑       |            |
|                     | -3260 Nov 27 j 17:51 | 0°♒       |            |                     |  | -3257 Jun 27 j 01:17 | 0°♒       |            |
|                     | -3260 Dec 21 j 21:47 | 0°♒       |            |                     |  | -3257 Jul 22 j 05:37 | 0°♒       |            |
|                     | -3259 Jan 15 j 08:02 | 0°♒       |            | asc. node           |  | -3257 Aug 01 j 23:10 | 13°♒03'19 |            |
|                     | -3259 Feb 09 j 04:57 | 0°♒       |            |                     |  | -3257 Aug 15 j 17:46 | 0°♒       |            |
| asc. node           | -3259 Feb 14 j 02:43 | 5°♒49'37  |            |                     |  | -3257 Sep 08 j 19:15 | 0°♒       |            |
|                     | -3259 Mar 06 j 19:57 | 0°♑       |            |                     |  | -3257 Oct 02 j 15:08 | 0°♒       |            |
|                     | -3259 Apr 02 j 19:43 | 0°♒       |            | morning set         |  | -3257 Oct 19 j 04:43 | 20°♒54'24 |            |
| evening max el      | -3259 Apr 24 j 21:48 | 22°♒25'34 | 45°13'22   |                     |  | -3257 Oct 26 j 09:41 | 0°♒       |            |
|                     | -3259 May 03 j 03:58 | 0°♒       |            |                     |  | -3257 Nov 19 j 05:41 | 0°♒       |            |
| greatest brilliancy | -3259 Jun 02 j 02:58 | 19°♒52'19 | -4.7m      | desc. node          |  | -3257 Nov 21 j 17:20 | 3°♒07'18  |            |
| desc. node          | -3259 Jun 05 j 21:17 | 20°♒58'03 |            |                     |  |                      |           |            |
| retrograde          | -3259 Jun 12 j 07:50 | 21°♒43'41 |            | superior conj       |  | -3257 Nov 30 j 05:05 | 13°♒46'18 | -0°19'42   |
| evening set         | -3259 Jun 27 j 22:28 | 17°♒10'00 |            | minimum elong       |  | -3257 Nov 29 j 23:47 | 13°♒29'42 | 0°19'31    |
| inferior conj       | -3259 Jul 03 j 13:40 | 13°♒51'10 | -5°58'46   | max. Earth dist.    |  | -3257 Dec 04 j 17:53 | 19°♒27'02 | 1.71435 AU |
| minimum elong       | -3259 Jul 03 j 03:26 | 14°♒06'49 | 5°56'25    |                     |  | -3257 Dec 13 j 04:20 | 0°♒       |            |
| min. Earth dist.    | -3259 Jul 03 j 21:30 | 13°♒39'11 | 0.28124 AU |                     |  | -3256 Jan 06 j 06:01 | 0°♒       |            |
| morning rise        | -3259 Jul 08 j 07:52 | 11°♒00'09 |            | evening rise        |  | -3256 Jan 10 j 16:32 | 5°♒30'42  |            |
| direct              | -3259 Jul 24 j 22:59 | 5°♒47'13  |            |                     |  | -3256 Jan 30 j 11:18 | 0°♒       |            |
| greatest brilliancy | -3259 Aug 04 j 23:35 | 7°♒59'27  | -4.8m      |                     |  | -3256 Feb 23 j 21:21 | 0°♒       |            |
|                     | -3259 Sep 04 j 22:35 | 0°♒       |            | asc. node           |  | -3256 Mar 13 j 14:59 | 22°♒47'47 |            |
| morning max el      | -3259 Sep 13 j 04:49 | 8°♒02'47  | 46°41'06   |                     |  | -3256 Mar 19 j 14:00 | 0°♑       |            |
| asc. node           | -3259 Sep 26 j 20:24 | 22°♒24'23 |            |                     |  | -3256 Apr 13 j 15:34 | 0°♒       |            |
|                     | -3259 Oct 03 j 17:12 | 0°♒       |            |                     |  | -3256 May 09 j 05:51 | 0°♒       |            |
|                     | -3259 Oct 29 j 13:19 | 0°♒       |            |                     |  | -3256 Jun 04 j 17:18 | 0°♒       |            |
|                     | -3259 Nov 23 j 09:25 | 0°♒       |            | desc. node          |  | -3256 Jul 03 j 09:03 | 0°♒14'32  |            |
|                     | -3259 Dec 17 j 21:33 | 0°♒       |            |                     |  | -3256 Jul 03 j 03:11 | 0°♒       |            |
|                     | -3258 Jan 11 j 08:19 | 0°♒       |            | evening max el      |  | -3256 Jul 06 j 13:03 | 3°♒20'35  | 46°20'48   |
| desc. node          | -3258 Jan 16 j 15:22 | 6°♒29'39  |            |                     |  | -3256 Aug 09 j 07:05 | 0°♒       |            |
|                     | -3258 Feb 04 j 19:42 | 0°♒       |            | greatest brilliancy |  | -3256 Aug 16 j 07:50 | 2°♒57'51  | -4.9m      |
|                     | -3258 Mar 01 j 07:42 | 0°♒       |            | retrograde          |  | -3256 Aug 25 j 07:18 | 4°♒27'44  |            |
| morning set         | -3258 Mar 20 j 04:55 | 23°♒07'15 |            |                     |  | -3256 Sep 09 j 11:49 | 30°♒      |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| evening set         | -3256 Sep 11 j 14:09 | 28°Ω49'13 |            | minimum elong       | -3253 Feb 13 j 14:15 | 29°Σ20'22 | 1°24'06    |
| inferior conj       | -3256 Sep 14 j 23:38 | 26°Ω47'54 | -8°06'30   |                     | -3253 Feb 14 j 03:05 | 0°≈       |            |
| minimum elong       | -3256 Sep 15 j 08:19 | 26°Ω34'47 | 8°05'14    | max. Earth dist.    | -3253 Feb 16 j 05:51 | 2°≈36'36  | 1.73049 AU |
| min. Earth dist.    | -3256 Sep 15 j 11:50 | 26°Ω29'29 | 0.26771 AU |                     | -3253 Mar 10 j 11:36 | 0°✕       |            |
| morning rise        | -3256 Sep 19 j 02:16 | 24°Ω21'35 |            | evening rise        | -3253 Mar 23 j 07:58 | 15°✕46'52 |            |
| direct              | -3256 Oct 05 j 11:53 | 19°Ω07'22 |            |                     | -3253 Apr 03 j 22:23 | 0°Υ       |            |
| greatest brilliancy | -3256 Oct 16 j 06:26 | 21°Ω19'53 | -4.9m      | asc. node           | -3253 Apr 11 j 03:04 | 8°Υ48'13  |            |
| asc. node           | -3256 Oct 24 j 07:43 | 25°Ω23'11 |            |                     | -3253 Apr 28 j 11:37 | 0°♁       |            |
|                     | -3256 Oct 31 j 03:17 | 0°♐       |            |                     | -3253 May 23 j 03:41 | 0°♐       |            |
| morning max el      | -3256 Nov 25 j 07:30 | 22°♐46'40 | 46°50'22   |                     | -3253 Jun 16 j 23:42 | 0°♑       |            |
|                     | -3256 Dec 02 j 05:57 | 0°♑       |            |                     | -3253 Jul 12 j 02:16 | 0°Ω       |            |
|                     | -3256 Dec 29 j 06:32 | 0°♒       |            | desc. node          | -3253 Jul 31 j 20:56 | 23°Ω14'45 |            |
|                     | -3255 Jan 24 j 01:15 | 0°♑       |            |                     | -3253 Aug 06 j 16:51 | 0°♐       |            |
| desc. node          | -3255 Feb 13 j 03:12 | 23°♑46'05 |            |                     | -3253 Sep 02 j 08:22 | 0°♑       |            |
|                     | -3255 Feb 18 j 08:53 | 0°Σ       |            | evening max el      | -3253 Sep 19 j 03:57 | 17°♑42'24 | 47°31'18   |
|                     | -3255 Mar 15 j 10:48 | 0°≈       |            |                     | -3253 Oct 01 j 22:56 | 0°♒       |            |
|                     | -3255 Apr 09 j 08:23 | 0°✕       |            | greatest brilliancy | -3253 Oct 29 j 21:43 | 19°♒13'50 | -4.9m      |
|                     | -3255 May 04 j 01:39 | 0°Υ       |            | retrograde          | -3253 Nov 09 j 01:32 | 21°♒12'08 |            |
| morning set         | -3255 May 26 j 06:01 | 27°Υ07'34 |            | asc. node           | -3253 Nov 21 j 19:23 | 17°♒51'53 |            |
|                     | -3255 May 28 j 14:11 | 0°♁       |            | evening set         | -3253 Nov 23 j 12:27 | 16°♒57'55 |            |
| asc. node           | -3255 Jun 06 j 01:18 | 10°♁24'51 |            | min. Earth dist.    | -3253 Nov 28 j 20:36 | 13°♒47'18 | 0.26724 AU |
|                     | -3255 Jun 21 j 21:43 | 0°♐       |            | inferior conj       | -3253 Nov 29 j 16:41 | 13°♒16'02 | 1°59'33    |
| max. Earth dist.    | -3255 Jun 27 j 04:09 | 6°♐31'53  | 1.72656 AU | minimum elong       | -3253 Nov 29 j 12:23 | 13°♒22'43 | 1°58'09    |
|                     |                      |           |            | morning rise        | -3253 Dec 05 j 13:12 | 9°♒47'16  |            |
| superior conj       | -3255 Jul 01 j 09:45 | 11°♐47'16 | 0°54'57    | direct              | -3253 Dec 20 j 01:28 | 5°♒35'13  |            |
| minimum elong       | -3255 Jul 01 j 01:09 | 11°♐20'33 | 0°54'43    | greatest brilliancy | -3253 Dec 29 j 06:07 | 7°♒11'48  | -4.9m      |
|                     | -3255 Jul 16 j 00:48 | 0°♑       |            |                     | -3252 Jan 31 j 04:42 | 0°♑       |            |
| evening rise        | -3255 Aug 07 j 00:30 | 27°♑28'31 |            | morning max el      | -3252 Feb 07 j 14:01 | 7°♑01'21  | 46°16'14   |
|                     | -3255 Aug 09 j 00:55 | 0°Ω       |            |                     | -3252 Feb 29 j 20:16 | 0°Σ       |            |
|                     | -3255 Sep 02 j 00:10 | 0°♐       |            | desc. node          | -3252 Mar 12 j 14:53 | 12°Σ52'23 |            |
| desc. node          | -3255 Sep 25 j 19:09 | 29°♐43'16 |            |                     | -3252 Mar 27 j 21:03 | 0°≈       |            |
|                     | -3255 Sep 26 j 00:31 | 0°♑       |            |                     | -3252 Apr 22 j 20:52 | 0°✕       |            |
|                     | -3255 Oct 20 j 03:34 | 0°♒       |            |                     | -3252 May 18 j 05:52 | 0°Υ       |            |
|                     | -3255 Nov 13 j 11:14 | 0°♑       |            |                     | -3252 Jun 12 j 03:35 | 0°♁       |            |
|                     | -3255 Dec 08 j 03:34 | 0°Σ       |            | asc. node           | -3252 Jul 03 j 13:23 | 26°♁11'20 |            |
|                     | -3254 Jan 02 j 13:31 | 0°≈       |            |                     | -3252 Jul 06 j 15:34 | 0°♐       |            |
| asc. node           | -3254 Jan 16 j 16:50 | 16°≈01'05 |            |                     | -3252 Jul 30 j 19:24 | 0°♑       |            |
|                     | -3254 Jan 29 j 14:56 | 0°✕       |            | morning set         | -3252 Aug 02 j 18:38 | 3°♑42'35  |            |
| evening max el      | -3254 Feb 10 j 17:47 | 12°✕18'26 | 45°33'06   |                     | -3252 Aug 23 j 17:28 | 0°Ω       |            |
|                     | -3254 Mar 02 j 22:28 | 0°Υ       |            | max. Earth dist.    | -3252 Sep 08 j 19:45 | 20°Ω16'42 | 1.71065 AU |
| greatest brilliancy | -3254 Mar 20 j 14:00 | 10°Υ16'59 | -4.7m      |                     |                      |           |            |
| retrograde          | -3254 Mar 31 j 09:39 | 12°Υ23'03 |            | superior conj       | -3252 Sep 10 j 02:33 | 21°Ω53'49 | 1°18'45    |
| evening set         | -3254 Apr 16 j 03:58 | 7°Υ36'14  |            | minimum elong       | -3252 Sep 10 j 09:38 | 22°Ω16'09 | 1°18'41    |
| inferior conj       | -3254 Apr 21 j 20:04 | 4°Υ09'59  | 3°41'35    |                     | -3252 Sep 16 j 12:48 | 0°♐       |            |
| minimum elong       | -3254 Apr 22 j 03:17 | 3°Υ58'40  | 3°39'44    |                     | -3252 Oct 10 j 08:07 | 0°♑       |            |
| min. Earth dist.    | -3254 Apr 22 j 10:22 | 3°Υ47'34  | 0.29151 AU | evening rise        | -3252 Oct 21 j 07:21 | 13°♑47'27 |            |
| morning rise        | -3254 Apr 28 j 02:25 | 0°Υ23'20  |            | desc. node          | -3252 Oct 23 j 07:21 | 16°♑18'11 |            |
|                     | -3254 Apr 28 j 19:31 | 30°♒✕     |            |                     | -3252 Nov 03 j 05:18 | 0°♒       |            |
| desc. node          | -3254 May 08 j 11:38 | 26°♒17'57 |            |                     | -3252 Nov 27 j 05:22 | 0°♑       |            |
| direct              | -3254 May 13 j 15:49 | 25°♒46'16 |            |                     | -3252 Dec 21 j 09:27 | 0°Σ       |            |
| greatest brilliancy | -3254 May 24 j 08:31 | 27°♒49'36 | -4.7m      |                     | -3251 Jan 14 j 20:00 | 0°≈       |            |
|                     | -3254 May 29 j 08:31 | 0°Υ       |            |                     | -3251 Feb 08 j 17:33 | 0°✕       |            |
| morning max el      | -3254 Jul 01 j 20:17 | 26°Υ02'33 | 46°02'09   | asc. node           | -3251 Feb 13 j 04:52 | 5°♒18'11  |            |
|                     | -3254 Jul 05 j 21:15 | 0°♁       |            |                     | -3251 Mar 06 j 09:54 | 0°Υ       |            |
|                     | -3254 Aug 02 j 23:55 | 0°♐       |            |                     | -3251 Apr 02 j 12:53 | 0°♁       |            |
|                     | -3254 Aug 28 j 19:38 | 0°♑       |            | evening max el      | -3251 Apr 22 j 11:54 | 20°♁10'10 | 45°12'28   |
| asc. node           | -3254 Aug 29 j 10:55 | 0°♑45'36  |            |                     | -3251 May 03 j 08:26 | 0°♐       |            |
|                     | -3254 Sep 22 j 13:06 | 0°Ω       |            | greatest brilliancy | -3251 May 30 j 16:28 | 17°♐36'52 | -4.7m      |
|                     | -3254 Oct 16 j 17:22 | 0°♐       |            | desc. node          | -3251 Jun 04 j 23:31 | 19°♐02'04 |            |
|                     | -3254 Nov 09 j 16:32 | 0°♑       |            | retrograde          | -3251 Jun 09 j 22:06 | 19°♐29'21 |            |
|                     | -3254 Dec 03 j 15:36 | 0°♒       |            | evening set         | -3251 Jun 25 j 10:25 | 14°♐58'34 |            |
| desc. node          | -3254 Dec 19 j 05:31 | 19°♒26'50 |            | inferior conj       | -3251 Jul 01 j 04:28 | 11°♐36'08 | -5°42'39   |
|                     | -3254 Dec 27 j 16:51 | 0°♑       |            | minimum elong       | -3251 Jun 30 j 18:21 | 11°♐51'34 | 5°40'15    |
| morning set         | -3253 Jan 04 j 14:24 | 9°♑49'09  |            | min. Earth dist.    | -3251 Jul 01 j 12:41 | 11°♐23'35 | 0.28165 AU |
|                     | -3253 Jan 20 j 20:47 | 0°Σ       |            | morning rise        | -3251 Jul 06 j 01:42 | 8°♐40'50  |            |
|                     |                      |           |            | direct              | -3251 Jul 22 j 13:50 | 3°♐31'08  |            |
| superior conj       | -3253 Feb 13 j 14:24 | 29°Σ20'51 | -1°23'59   | greatest brilliancy | -3251 Aug 02 j 15:55 | 5°♐44'30  | -4.8m      |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3251 Sep 05 j 00:08 | 0°☾       |            | evening rise        | -3248 Jan 08 j 04:41 | 3°☾04'35  |            |
| morning max el      | -3251 Sep 10 j 18:53 | 5°☾40'58  | 46°40'06   |                     | -3248 Jan 29 j 22:35 | 0°≈       |            |
| asc. node           | -3251 Sep 25 j 22:26 | 21°☾39'52 |            |                     | -3248 Feb 23 j 08:49 | 0°✕       |            |
|                     | -3251 Oct 03 j 10:15 | 0°♏       |            | asc. node           | -3248 Mar 12 j 16:58 | 22°✕18'25 |            |
|                     | -3251 Oct 29 j 03:42 | 0°♐       |            |                     | -3248 Mar 19 j 01:48 | 0°♑       |            |
|                     | -3251 Nov 22 j 22:33 | 0°♑       |            |                     | -3248 Apr 13 j 04:03 | 0°♒       |            |
|                     | -3251 Dec 17 j 09:59 | 0°♒       |            |                     | -3248 May 08 j 19:36 | 0°♓       |            |
|                     | -3250 Jan 10 j 20:16 | 0°♓       |            |                     | -3248 Jun 04 j 09:39 | 0°☾       |            |
| desc. node          | -3250 Jan 15 j 17:29 | 5°♓59'46  |            | desc. node          | -3248 Jul 02 j 11:11 | 29°☾23'04 |            |
|                     | -3250 Feb 04 j 07:16 | 0°♓       |            |                     | -3248 Jul 03 j 02:19 | 0°♏       |            |
| morning set         | -3250 Feb 28 j 18:58 | 0°≈       |            | evening max el      | -3248 Jul 04 j 03:01 | 0°♏59'58  | 46°17'41   |
|                     | -3250 Mar 17 j 22:04 | 20°≈58'47 |            |                     | -3248 Aug 12 j 08:47 | 0°♐       |            |
|                     | -3250 Mar 25 j 06:46 | 0°✕       |            | greatest brilliancy | -3248 Aug 13 j 18:41 | 0°♐29'00  | -4.9m      |
|                     | -3250 Apr 18 j 18:05 | 0°♑       |            | retrograde          | -3248 Aug 22 j 19:38 | 1°♐59'33  |            |
| max. Earth dist.    | -3250 Apr 21 j 18:55 | 3°♑43'27  | 1.73720 AU |                     | -3248 Sep 01 j 19:08 | 30°♐♏     |            |
|                     |                      |           |            | evening set         | -3248 Sep 09 j 05:10 | 26°♏16'50 |            |
| superior conj       | -3250 Apr 23 j 07:39 | 5°♑36'09  | -0°34'54   | inferior conj       | -3248 Sep 12 j 11:50 | 24°♏19'26 | -8°16'07   |
| minimum elong       | -3250 Apr 23 j 14:01 | 5°♑55'42  | 0°34'36    | minimum elong       | -3248 Sep 12 j 19:54 | 24°♏07'14 | 8°15'02    |
| asc. node           | -3250 May 08 j 15:18 | 24°♑24'59 |            | min. Earth dist.    | -3248 Sep 12 j 23:50 | 24°♏01'18 | 0.26816 AU |
|                     | -3250 May 13 j 04:17 | 0°♒       |            | morning rise        | -3248 Sep 16 j 10:29 | 21°♏58'51 |            |
| evening rise        | -3250 May 29 j 01:59 | 19°♒34'29 |            | direct              | -3248 Oct 03 j 01:30 | 16°♏38'28 |            |
|                     | -3250 Jun 06 j 13:02 | 0°♓       |            | greatest brilliancy | -3248 Oct 13 j 19:11 | 18°♏50'30 | -4.9m      |
|                     | -3250 Jun 30 j 20:36 | 0°☾       |            | asc. node           | -3248 Oct 23 j 09:54 | 23°♏52'11 |            |
|                     | -3250 Jul 25 j 04:13 | 0°♏       |            |                     | -3248 Oct 31 j 21:41 | 0°♐       |            |
|                     | -3250 Aug 18 j 13:49 | 0°♐       |            | morning max el      | -3248 Nov 22 j 21:35 | 20°♐21'06 | 46°50'59   |
| desc. node          | -3250 Aug 28 j 09:02 | 11°♐59'37 |            |                     | -3248 Dec 02 j 02:27 | 0°♑       |            |
|                     | -3250 Sep 12 j 03:52 | 0°♑       |            |                     | -3248 Dec 28 j 22:20 | 0°♒       |            |
|                     | -3250 Oct 07 j 02:09 | 0°♒       |            |                     | -3247 Jan 23 j 15:01 | 0°♓       |            |
|                     | -3250 Nov 01 j 17:31 | 0°♓       |            | desc. node          | -3247 Feb 12 j 05:16 | 23°♓13'59 |            |
|                     | -3250 Nov 29 j 05:15 | 0°♓       |            |                     | -3247 Feb 17 j 21:31 | 0°♓       |            |
| evening max el      | -3250 Nov 29 j 08:09 | 0°♓07'23  | 46°58'18   |                     | -3247 Mar 14 j 22:44 | 0°≈       |            |
| asc. node           | -3250 Dec 19 j 07:13 | 18°♓44'35 |            |                     | -3247 Apr 08 j 19:52 | 0°✕       |            |
|                     | -3249 Jan 05 j 03:09 | 0°≈       |            |                     | -3247 May 03 j 12:51 | 0°♑       |            |
| greatest brilliancy | -3249 Jan 08 j 06:24 | 1°≈22'25  | -4.8m      | morning set         | -3247 May 24 j 00:51 | 25°♑04'13 |            |
| retrograde          | -3249 Jan 19 j 01:56 | 3°≈35'54  |            |                     | -3247 May 28 j 01:13 | 0°♒       |            |
|                     | -3249 Feb 01 j 08:41 | 30°♐♓     |            | asc. node           | -3247 Jun 05 j 03:30 | 9°♒57'39  |            |
| evening set         | -3249 Feb 05 j 18:30 | 27°♓28'59 |            |                     | -3247 Jun 21 j 08:43 | 0°♓       |            |
| inferior conj       | -3249 Feb 09 j 08:27 | 25°♓13'18 | 8°20'47    | max. Earth dist.    | -3247 Jun 24 j 21:18 | 4°♓22'03  | 1.72712 AU |
| minimum elong       | -3249 Feb 09 j 06:56 | 25°♓15'45 | 8°20'40    |                     |                      |           |            |
| min. Earth dist.    | -3249 Feb 08 j 19:35 | 25°♓33'53 | 0.28775 AU | superior conj       | -3247 Jun 29 j 03:39 | 9°♓39'36  | 0°52'29    |
| morning rise        | -3249 Feb 12 j 19:35 | 23°♓02'14 |            | minimum elong       | -3247 Jun 28 j 19:13 | 9°♓13'24  | 0°52'17    |
| direct              | -3249 Mar 02 j 14:01 | 16°♓57'39 |            |                     | -3247 Jul 15 j 11:52 | 0°☾       |            |
| greatest brilliancy | -3249 Mar 11 j 18:18 | 18°♓30'10 | -4.7m      | evening rise        | -3247 Aug 04 j 15:58 | 25°☾11'38 |            |
|                     | -3249 Apr 01 j 00:14 | 0°≈       |            |                     | -3247 Aug 08 j 12:09 | 0°♏       |            |
| desc. node          | -3249 Apr 10 j 02:15 | 7°≈23'56  |            |                     | -3247 Sep 01 j 11:39 | 0°♐       |            |
| morning max el      | -3249 Apr 20 j 09:10 | 16°≈46'05 | 45°48'57   | desc. node          | -3247 Sep 24 j 21:11 | 29°♐13'03 |            |
|                     | -3249 May 03 j 17:01 | 0°✕       |            |                     | -3247 Sep 25 j 12:16 | 0°♑       |            |
|                     | -3249 May 31 j 11:49 | 0°♑       |            |                     | -3247 Oct 19 j 15:37 | 0°♒       |            |
|                     | -3249 Jun 26 j 14:18 | 0°♒       |            |                     | -3247 Nov 12 j 23:44 | 0°♓       |            |
|                     | -3249 Jul 21 j 17:46 | 0°♓       |            |                     | -3247 Dec 07 j 16:47 | 0°♓       |            |
| asc. node           | -3249 Aug 01 j 01:11 | 12°♓33'01 |            |                     | -3246 Jan 02 j 04:13 | 0°≈       |            |
|                     | -3249 Aug 15 j 05:29 | 0°☾       |            | asc. node           | -3246 Jan 15 j 18:56 | 15°≈22'08 |            |
| greatest brilliancy | -3249 Sep 04 j 02:50 | 24°☾46'51 | -3.9m      |                     | -3246 Jan 29 j 09:32 | 0°✕       |            |
|                     | -3249 Sep 08 j 06:45 | 0°♏       |            | evening max el      | -3246 Feb 08 j 09:39 | 10°✕06'40 | 45°35'13   |
|                     | -3249 Oct 02 j 02:32 | 0°♐       |            |                     | -3246 Mar 03 j 13:24 | 0°♑       |            |
| morning set         | -3249 Oct 16 j 15:38 | 18°♐21'33 |            | greatest brilliancy | -3246 Mar 18 j 07:17 | 8°♑10'19  | -4.7m      |
|                     | -3249 Oct 25 j 21:02 | 0°♑       |            | retrograde          | -3246 Mar 29 j 02:06 | 10°♑15'42 |            |
|                     | -3249 Nov 18 j 16:59 | 0°♒       |            | evening set         | -3246 Apr 13 j 22:59 | 5°♑25'49  |            |
| desc. node          | -3249 Nov 20 j 19:33 | 2°♒38'48  |            | inferior conj       | -3246 Apr 19 j 12:55 | 2°♑02'09  | 3°58'24    |
|                     |                      |           |            | minimum elong       | -3246 Apr 19 j 20:31 | 1°♑50'12  | 3°56'30    |
| superior conj       | -3249 Nov 27 j 14:20 | 11°♒09'31 | -0°15'48   | min. Earth dist.    | -3246 Apr 20 j 03:02 | 1°♑39'56  | 0.29171 AU |
| minimum elong       | -3249 Nov 27 j 10:02 | 10°♒56'01 | 0°15'41    |                     | -3246 Apr 22 j 19:22 | 30°♐♐     |            |
| behind sun begin    | -3249 Nov 27 j 02:18 | 10°♒31'45 |            | morning rise        | -3246 Apr 25 j 17:53 | 28°✕16'53 |            |
| behind sun end      | -3249 Nov 27 j 17:47 | 11°♒20'17 |            | desc. node          | -3246 May 07 j 13:54 | 23°✕55'07 |            |
| max. Earth dist.    | -3249 Dec 02 j 02:36 | 16°♒48'45 | 1.71389 AU | direct              | -3246 May 11 j 08:49 | 23°✕38'17 |            |
|                     | -3249 Dec 12 j 15:35 | 0°♓       |            | greatest brilliancy | -3246 May 22 j 00:09 | 25°✕40'08 | -4.7m      |
|                     | -3248 Jan 05 j 17:15 | 0°♓       |            |                     | -3246 May 30 j 23:42 | 0°♑       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
| morning max el      | -3246 Jun 29 j 11:40 | 23° $\Upsilon$ 49'55 | 46°01'00   | asc. node           | -3243 Feb 12 j 06:54 | 4° $\text{H}$ 46'28  |            |
|                     | -3246 Jul 05 j 17:48 | 0° $\text{B}$        |            |                     | -3243 Mar 05 j 23:56 | 0° $\Upsilon$        |            |
|                     | -3246 Aug 02 j 15:15 | 0° $\Pi$             |            |                     | -3243 Apr 02 j 06:18 | 0° $\text{B}$        |            |
|                     | -3246 Aug 28 j 09:03 | 0° $\text{E}$        |            | evening max el      | -3243 Apr 20 j 02:22 | 17° $\text{B}$ 56'09 | 45°11'44   |
| asc. node           | -3246 Aug 28 j 13:00 | 0° $\text{E}$ 11'49  |            |                     | -3243 May 03 j 14:42 | 0° $\Pi$             |            |
|                     | -3246 Sep 22 j 01:37 | 0° $\Omega$          |            | greatest brilliancy | -3243 May 28 j 05:21 | 15° $\Pi$ 21'17      | -4.7m      |
|                     | -3246 Oct 16 j 05:23 | 0° $\text{M}$        |            | desc. node          | -3243 Jun 04 j 01:34 | 17° $\Pi$ 01'54      |            |
|                     | -3246 Nov 09 j 04:16 | 0° $\text{A}$        |            | retrograde          | -3243 Jun 07 j 12:52 | 17° $\Pi$ 15'32      |            |
|                     | -3246 Dec 03 j 03:07 | 0° $\text{M}$        |            | evening set         | -3243 Jun 22 j 22:32 | 12° $\Pi$ 47'19      |            |
| desc. node          | -3246 Dec 18 j 07:35 | 18° $\text{M}$ 57'41 |            | inferior conj       | -3243 Jun 28 j 19:12 | 9° $\Pi$ 21'24       | -5°26'02   |
|                     | -3246 Dec 27 j 04:13 | 0° $\text{A}$        |            | minimum elong       | -3243 Jun 28 j 09:17 | 9° $\Pi$ 36'31       | 5°23'37    |
| morning set         | -3245 Jan 02 j 01:31 | 7° $\text{A}$ 19'27  |            | min. Earth dist.    | -3243 Jun 29 j 03:27 | 9° $\Pi$ 08'48       | 0.28209 AU |
|                     | -3245 Jan 20 j 07:58 | 0° $\text{B}$        |            | morning rise        | -3243 Jul 03 j 19:27 | 6° $\Pi$ 22'00       |            |
|                     |                      |                      |            | direct              | -3243 Jul 20 j 05:07 | 1° $\Pi$ 15'22       |            |
| superior conj       | -3245 Feb 11 j 05:17 | 27° $\text{B}$ 04'31 | -1°23'55   | greatest brilliancy | -3243 Jul 31 j 07:46 | 3° $\Pi$ 29'28       | -4.8m      |
| minimum elong       | -3245 Feb 11 j 04:19 | 27° $\text{B}$ 01'32 | 1°24'01    |                     | -3243 Sep 05 j 00:25 | 0° $\text{E}$        |            |
|                     | -3245 Feb 13 j 14:08 | 0° $\approx$         |            | morning max el      | -3243 Sep 08 j 09:57 | 3° $\text{E}$ 22'01  | 46°38'58   |
| max. Earth dist.    | -3245 Feb 14 j 01:39 | 0° $\approx$ 35'30   | 1.72997 AU | asc. node           | -3243 Sep 25 j 00:36 | 20° $\text{E}$ 56'20 |            |
|                     | -3245 Mar 09 j 22:35 | 0° $\text{H}$        |            |                     | -3243 Oct 03 j 02:57 | 0° $\Omega$          |            |
| evening rise        | -3245 Mar 21 j 01:21 | 13° $\text{H}$ 39'12 |            |                     | -3243 Oct 28 j 17:53 | 0° $\text{M}$        |            |
|                     | -3245 Apr 03 j 09:25 | 0° $\Upsilon$        |            |                     | -3243 Nov 22 j 11:31 | 0° $\text{A}$        |            |
| asc. node           | -3245 Apr 10 j 05:15 | 8° $\Upsilon$ 21'01  |            |                     | -3243 Dec 16 j 22:14 | 0° $\text{M}$        |            |
|                     | -3245 Apr 27 j 22:53 | 0° $\text{B}$        |            |                     | -3242 Jan 10 j 08:00 | 0° $\text{A}$        |            |
|                     | -3245 May 22 j 15:23 | 0° $\Pi$             |            | desc. node          | -3242 Jan 14 j 19:30 | 5° $\text{A}$ 30'09  |            |
|                     | -3245 Jun 16 j 12:03 | 0° $\text{E}$        |            |                     | -3242 Feb 03 j 18:38 | 0° $\text{B}$        |            |
|                     | -3245 Jul 11 j 15:39 | 0° $\Omega$          |            |                     | -3242 Feb 28 j 06:03 | 0° $\approx$         |            |
| desc. node          | -3245 Jul 30 j 22:57 | 22° $\Omega$ 38'05   |            | morning set         | -3242 Mar 15 j 15:00 | 18° $\approx$ 50'04  |            |
|                     | -3245 Aug 06 j 08:01 | 0° $\text{M}$        |            |                     | -3242 Mar 24 j 17:40 | 0° $\text{H}$        |            |
|                     | -3245 Sep 02 j 03:14 | 0° $\text{A}$        |            |                     | -3242 Apr 18 j 04:52 | 0° $\Upsilon$        |            |
| evening max el      | -3245 Sep 16 j 17:23 | 15° $\text{A}$ 16'14 | 47°30'14   | max. Earth dist.    | -3242 Apr 19 j 17:25 | 1° $\Upsilon$ 52'09  | 1.73725 AU |
|                     | -3245 Oct 02 j 06:26 | 0° $\text{M}$        |            |                     |                      |                      |            |
| greatest brilliancy | -3245 Oct 27 j 13:01 | 16° $\text{M}$ 47'24 | -4.9m      | superior conj       | -3242 Apr 21 j 02:18 | 3° $\Upsilon$ 33'02  | -0°37'40   |
| retrograde          | -3245 Nov 06 j 14:15 | 18° $\text{M}$ 43'28 |            | minimum elong       | -3242 Apr 21 j 09:06 | 3° $\Upsilon$ 53'52  | 0°37'22    |
| asc. node           | -3245 Nov 20 j 21:36 | 14° $\text{M}$ 35'31 |            | asc. node           | -3242 May 07 j 17:31 | 23° $\Upsilon$ 58'38 |            |
| evening set         | -3245 Nov 21 j 01:18 | 14° $\text{M}$ 30'29 |            |                     | -3242 May 12 j 15:05 | 0° $\text{B}$        |            |
| min. Earth dist.    | -3245 Nov 26 j 11:09 | 11° $\text{M}$ 17'41 | 0.26673 AU | evening rise        | -3242 May 26 j 21:31 | 17° $\text{B}$ 33'32 |            |
| inferior conj       | -3245 Nov 27 j 05:43 | 10° $\text{M}$ 48'49 | 1°36'37    |                     | -3242 Jun 05 j 23:56 | 0° $\Pi$             |            |
| minimum elong       | -3245 Nov 27 j 02:13 | 10° $\text{M}$ 54'16 | 1°35'26    |                     | -3242 Jun 30 j 07:45 | 0° $\text{E}$        |            |
| morning rise        | -3245 Dec 03 j 03:52 | 7° $\text{M}$ 17'44  |            |                     | -3242 Jul 24 j 15:46 | 0° $\Omega$          |            |
| direct              | -3245 Dec 17 j 13:33 | 3° $\text{M}$ 08'48  |            |                     | -3242 Aug 18 j 01:55 | 0° $\text{M}$        |            |
| greatest brilliancy | -3245 Dec 26 j 20:41 | 4° $\text{M}$ 47'09  | -4.9m      | desc. node          | -3242 Aug 27 j 11:06 | 11° $\text{M}$ 28'15 |            |
|                     | -3244 Jan 31 j 07:11 | 0° $\text{A}$        |            |                     | -3242 Sep 11 j 16:43 | 0° $\text{A}$        |            |
| morning max el      | -3244 Feb 05 j 02:39 | 4° $\text{A}$ 37'31  | 46°17'42   |                     | -3242 Oct 06 j 16:08 | 0° $\text{M}$        |            |
|                     | -3244 Feb 29 j 13:30 | 0° $\text{B}$        |            |                     | -3242 Nov 01 j 09:39 | 0° $\text{A}$        |            |
| desc. node          | -3244 Mar 11 j 16:54 | 12° $\text{B}$ 14'40 |            | evening max el      | -3242 Nov 27 j 00:01 | 27° $\text{A}$ 50'22 | 47°01'07   |
|                     | -3244 Mar 27 j 11:10 | 0° $\approx$         |            |                     | -3242 Nov 29 j 03:11 | 0° $\text{B}$        |            |
|                     | -3244 Apr 22 j 09:29 | 0° $\text{H}$        |            | asc. node           | -3242 Dec 18 j 09:14 | 17° $\text{B}$ 37'50 |            |
|                     | -3244 May 17 j 17:40 | 0° $\Upsilon$        |            | greatest brilliancy | -3241 Jan 05 j 22:08 | 29° $\text{B}$ 07'41 | -4.8m      |
|                     | -3244 Jun 11 j 14:57 | 0° $\text{B}$        |            |                     | -3241 Jan 08 j 09:06 | 0° $\approx$         |            |
| asc. node           | -3244 Jul 02 j 15:24 | 25° $\text{B}$ 43'10 |            | retrograde          | -3241 Jan 16 j 18:57 | 1° $\approx$ 22'30   |            |
|                     | -3244 Jul 06 j 02:43 | 0° $\Pi$             |            |                     | -3241 Jan 24 j 21:26 | 30° $\text{R}$ 3     |            |
|                     | -3244 Jul 30 j 06:29 | 0° $\text{E}$        |            | evening set         | -3241 Feb 03 j 09:25 | 25° $\text{B}$ 17'20 |            |
| morning set         | -3244 Jul 31 j 09:59 | 1° $\text{E}$ 25'55  |            | min. Earth dist.    | -3241 Feb 06 j 10:05 | 23° $\text{B}$ 23'05 | 0.28720 AU |
|                     | -3244 Aug 23 j 04:33 | 0° $\Omega$          |            | inferior conj       | -3241 Feb 07 j 00:35 | 22° $\text{B}$ 59'55 | 8°19'23    |
| max. Earth dist.    | -3244 Sep 06 j 03:09 | 17° $\Omega$ 33'42   | 1.71100 AU | minimum elong       | -3241 Feb 06 j 22:20 | 23° $\text{B}$ 03'31 | 8°19'12    |
|                     |                      |                      |            | morning rise        | -3241 Feb 10 j 11:30 | 20° $\text{B}$ 49'26 |            |
| superior conj       | -3244 Sep 07 j 15:11 | 19° $\Omega$ 27'18   | 1°19'58    | direct              | -3241 Feb 28 j 05:44 | 14° $\text{B}$ 45'10 |            |
| minimum elong       | -3244 Sep 07 j 21:30 | 19° $\Omega$ 47'12   | 1°19'57    | greatest brilliancy | -3241 Mar 09 j 08:12 | 16° $\text{B}$ 16'49 | -4.7m      |
|                     | -3244 Sep 15 j 23:55 | 0° $\text{M}$        |            |                     | -3241 Apr 01 j 11:28 | 0° $\approx$         |            |
|                     | -3244 Oct 09 j 19:20 | 0° $\text{A}$        |            | desc. node          | -3241 Apr 09 j 04:30 | 6° $\approx$ 28'32   |            |
| evening rise        | -3244 Oct 18 j 16:15 | 11° $\text{A}$ 09'18 |            | morning max el      | -3241 Apr 18 j 01:45 | 14° $\approx$ 37'42  | 45°49'19   |
| desc. node          | -3244 Oct 22 j 09:32 | 15° $\text{A}$ 49'40 |            |                     | -3241 May 03 j 11:16 | 0° $\text{H}$        |            |
|                     | -3244 Nov 02 j 16:38 | 0° $\text{M}$        |            |                     | -3241 May 31 j 02:08 | 0° $\Upsilon$        |            |
|                     | -3244 Nov 26 j 16:48 | 0° $\text{A}$        |            |                     | -3241 Jun 26 j 02:57 | 0° $\text{B}$        |            |
|                     | -3244 Dec 20 j 21:04 | 0° $\text{B}$        |            |                     | -3241 Jul 21 j 05:35 | 0° $\Pi$             |            |
|                     | -3243 Jan 14 j 07:56 | 0° $\approx$         |            | asc. node           | -3241 Jul 31 j 03:19 | 12° $\Pi$ 03'59      |            |
|                     | -3243 Feb 08 j 06:10 | 0° $\text{H}$        |            |                     | -3241 Aug 14 j 16:53 | 0° $\text{E}$        |            |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |                      |            |  |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|----------------------|------------|--|
|                     | -3241 Sep 07 j 17:57 | 0°♌       |            |                     |                      | -3238 Mar 04 j 09:13 | 0°♑        |  |
| greatest brilliancy | -3241 Sep 08 j 21:40 | 1°♌26'59  | -3.9m      | greatest brilliancy | -3238 Mar 16 j 00:46 | 6°♑04'17             | -4.7m      |  |
|                     | -3241 Oct 01 j 13:41 | 0°♍       |            | retrograde          | -3238 Mar 26 j 18:19 | 8°♑08'57             |            |  |
| morning set         | -3241 Oct 14 j 02:25 | 15°♍49'05 |            | evening set         | -3238 Apr 11 j 17:59 | 3°♑15'42             |            |  |
|                     | -3241 Oct 25 j 08:09 | 0°♎       |            | inferior conj       | -3238 Apr 17 j 05:44 | 29°♋54'57            | 4°14'49    |  |
|                     | -3241 Nov 18 j 04:04 | 0°♏       |            | minimum elong       | -3238 Apr 17 j 13:40 | 29°♋42'26            | 4°12'53    |  |
| desc. node          | -3241 Nov 19 j 21:39 | 2°♏10'34  |            |                     | -3238 Apr 17 j 02:32 | 30°♋♋                |            |  |
|                     |                      |           |            | min. Earth dist.    | -3238 Apr 17 j 19:53 | 29°♋32'39            | 0.29189 AU |  |
| superior conj       | -3241 Nov 24 j 23:05 | 8°♏31'37  | -0°11'50   | morning rise        | -3238 Apr 23 j 09:08 | 26°♋11'17            |            |  |
| minimum elong       | -3241 Nov 24 j 19:50 | 8°♏21'25  | 0°11'45    | desc. node          | -3238 May 06 j 15:57 | 21°♋37'26            |            |  |
| behind sun begin    | -3241 Nov 24 j 00:43 | 7°♏21'29  |            | direct              | -3238 May 09 j 01:14 | 21°♋30'48            |            |  |
| behind sun end      | -3241 Nov 25 j 14:56 | 9°♏21'21  |            | greatest brilliancy | -3238 May 19 j 16:12 | 23°♋31'48            | -4.7m      |  |
| max. Earth dist.    | -3241 Nov 29 j 12:10 | 14°♏13'39 | 1.71343 AU |                     | -3238 Jun 01 j 02:43 | 0°♑                  |            |  |
|                     | -3241 Dec 12 j 02:37 | 0°♐       |            | morning max el      | -3238 Jun 27 j 02:32 | 21°♑36'47            | 45°59'55   |  |
|                     | -3240 Jan 05 j 04:16 | 0°♑       |            |                     | -3238 Jul 05 j 13:26 | 0°♒                  |            |  |
| evening rise        | -3240 Jan 05 j 16:14 | 0°♑37'11  |            |                     | -3238 Aug 02 j 06:07 | 0°♓                  |            |  |
|                     | -3240 Jan 29 j 09:38 | 0°♒       |            | asc. node           | -3238 Aug 27 j 15:08 | 29°♓39'10            |            |  |
|                     | -3240 Feb 22 j 20:02 | 0°♓       |            |                     | -3238 Aug 27 j 22:06 | 0°♓                  |            |  |
| asc. node           | -3240 Mar 11 j 19:10 | 21°♓50'30 |            |                     | -3238 Sep 21 j 13:47 | 0°♌                  |            |  |
|                     | -3240 Mar 18 j 13:23 | 0°♑       |            |                     | -3238 Oct 15 j 17:04 | 0°♍                  |            |  |
|                     | -3240 Apr 12 j 16:19 | 0°♒       |            |                     | -3238 Nov 08 j 15:38 | 0°♎                  |            |  |
|                     | -3240 May 08 j 09:13 | 0°♓       |            |                     | -3238 Dec 02 j 14:18 | 0°♏                  |            |  |
|                     | -3240 Jun 04 j 01:58 | 0°♓       |            | desc. node          | -3238 Dec 17 j 09:36 | 18°♏29'22            |            |  |
| evening max el      | -3240 Jul 01 j 16:57 | 28°♓40'27 | 46°14'37   |                     | -3238 Dec 26 j 15:15 | 0°♐                  |            |  |
| desc. node          | -3240 Jul 01 j 13:14 | 28°♓31'28 |            | morning set         | -3238 Dec 30 j 12:32 | 4°♐50'15             |            |  |
|                     | -3240 Jul 03 j 02:02 | 0°♌       |            |                     | -3237 Jan 19 j 18:53 | 0°♑                  |            |  |
| greatest brilliancy | -3240 Aug 11 j 05:57 | 28°♌02'18 | -4.9m      |                     |                      |                      |            |  |
| retrograde          | -3240 Aug 20 j 07:38 | 29°♌32'54 |            | superior conj       | -3237 Feb 08 j 19:52 | 24°♑48'00            | -1°23'42   |  |
| evening set         | -3240 Sep 06 j 20:03 | 23°♌46'39 |            | minimum elong       | -3237 Feb 08 j 18:04 | 24°♑42'25            | 1°23'47    |  |
| inferior conj       | -3240 Sep 10 j 00:09 | 21°♌52'44 | -8°24'41   | max. Earth dist.    | -3237 Feb 11 j 19:10 | 28°♑28'06            | 1.72946 AU |  |
| minimum elong       | -3240 Sep 10 j 07:32 | 21°♌41'34 | 8°23'47    |                     | -3237 Feb 13 j 00:57 | 0°♒                  |            |  |
| min. Earth dist.    | -3240 Sep 10 j 12:01 | 21°♌34'47 | 0.26861 AU |                     | -3237 Mar 09 j 09:20 | 0°♓                  |            |  |
| morning rise        | -3240 Sep 13 j 18:54 | 19°♌37'35 |            | evening rise        | -3237 Mar 18 j 18:17 | 11°♓30'48            |            |  |
| direct              | -3240 Sep 30 j 14:54 | 14°♌11'23 |            |                     | -3237 Apr 02 j 20:15 | 0°♑                  |            |  |
| greatest brilliancy | -3240 Oct 11 j 08:07 | 16°♌22'42 | -4.9m      | asc. node           | -3237 Apr 09 j 07:22 | 7°♑54'14             |            |  |
| asc. node           | -3240 Oct 22 j 12:07 | 22°♌25'35 |            |                     | -3237 Apr 27 j 09:56 | 0°♒                  |            |  |
|                     | -3240 Nov 01 j 10:58 | 0°♍       |            |                     | -3237 May 22 j 02:52 | 0°♓                  |            |  |
| morning max el      | -3240 Nov 20 j 10:40 | 17°♍53'47 | 46°51'19   |                     | -3237 Jun 16 j 00:15 | 0°♓                  |            |  |
|                     | -3240 Dec 01 j 22:02 | 0°♎       |            |                     | -3237 Jul 11 j 04:57 | 0°♌                  |            |  |
|                     | -3240 Dec 28 j 13:41 | 0°♏       |            | desc. node          | -3237 Jul 30 j 01:04 | 22°♌02'01            |            |  |
|                     | -3239 Jan 23 j 04:27 | 0°♐       |            |                     | -3237 Aug 05 j 23:12 | 0°♍                  |            |  |
| desc. node          | -3239 Feb 11 j 07:23 | 22°♐42'52 |            |                     | -3237 Sep 01 j 22:23 | 0°♎                  |            |  |
|                     | -3239 Feb 17 j 09:51 | 0°♑       |            | evening max el      | -3237 Sep 14 j 06:12 | 12°♎49'19            | 47°29'12   |  |
|                     | -3239 Mar 14 j 10:22 | 0°♒       |            |                     | -3237 Oct 02 j 16:09 | 0°♏                  |            |  |
|                     | -3239 Apr 08 j 07:02 | 0°♓       |            | greatest brilliancy | -3237 Oct 25 j 04:15 | 14°♏21'47            | -4.9m      |  |
|                     | -3239 May 02 j 23:44 | 0°♑       |            | retrograde          | -3237 Nov 04 j 03:10 | 16°♏16'08            |            |  |
| morning set         | -3239 May 21 j 19:33 | 23°♑01'24 |            | evening set         | -3237 Nov 18 j 14:23 | 12°♏03'42            |            |  |
|                     | -3239 May 27 j 11:57 | 0°♒       |            | asc. node           | -3237 Nov 19 j 23:33 | 11°♏17'18            |            |  |
| asc. node           | -3239 Jun 04 j 05:30 | 9°♒30'46  |            | min. Earth dist.    | -3237 Nov 24 j 01:45 | 8°♏49'16             | 0.26624 AU |  |
|                     | -3239 Jun 20 j 19:26 | 0°♓       |            | inferior conj       | -3237 Nov 24 j 18:50 | 8°♏22'45             | 1°13'30    |  |
| max. Earth dist.    | -3239 Jun 22 j 13:50 | 2°♓11'19  | 1.72767 AU | minimum elong       | -3237 Nov 24 j 16:08 | 8°♏26'56             | 1°12'34    |  |
|                     |                      |           |            | morning rise        | -3237 Nov 30 j 18:29 | 4°♏49'47             |            |  |
| superior conj       | -3239 Jun 26 j 21:41 | 7°♓33'16  | 0°49'59    | direct              | -3237 Dec 15 j 01:35 | 0°♏43'19             |            |  |
| minimum elong       | -3239 Jun 26 j 13:27 | 7°♓07'45  | 0°49'46    | greatest brilliancy | -3237 Dec 24 j 11:22 | 2°♏23'49             | -4.9m      |  |
|                     | -3239 Jul 14 j 22:40 | 0°♓       |            |                     | -3236 Jan 31 j 07:53 | 0°♐                  |            |  |
| evening rise        | -3239 Aug 02 j 07:47 | 22°♓56'54 |            | morning max el      | -3236 Feb 02 j 15:53 | 2°♐15'58             | 46°19'06   |  |
|                     | -3239 Aug 07 j 23:06 | 0°♌       |            |                     | -3236 Feb 29 j 06:06 | 0°♑                  |            |  |
|                     | -3239 Aug 31 j 22:47 | 0°♍       |            | desc. node          | -3236 Mar 10 j 19:08 | 11°♑38'31            |            |  |
| desc. node          | -3239 Sep 23 j 23:24 | 28°♍44'30 |            |                     | -3236 Mar 27 j 00:57 | 0°♒                  |            |  |
|                     | -3239 Sep 24 j 23:39 | 0°♎       |            |                     | -3236 Apr 21 j 21:53 | 0°♓                  |            |  |
|                     | -3239 Oct 19 j 03:21 | 0°♏       |            |                     | -3236 May 17 j 05:18 | 0°♑                  |            |  |
|                     | -3239 Nov 12 j 11:57 | 0°♐       |            |                     | -3236 Jun 11 j 02:09 | 0°♒                  |            |  |
|                     | -3239 Dec 07 j 05:48 | 0°♑       |            | asc. node           | -3236 Jul 01 j 17:30 | 25°♒15'43            |            |  |
|                     | -3238 Jan 01 j 18:50 | 0°♒       |            |                     | -3236 Jul 05 j 13:42 | 0°♓                  |            |  |
| asc. node           | -3238 Jan 14 j 21:00 | 14°♒43'22 |            | morning set         | -3236 Jul 29 j 01:25 | 29°♓10'08            |            |  |
|                     | -3238 Jan 29 j 04:22 | 0°♓       |            |                     | -3236 Jul 29 j 17:23 | 0°♓                  |            |  |
| evening max el      | -3238 Feb 06 j 00:33 | 7°♓52'58  | 45°37'28   |                     | -3236 Aug 22 j 15:29 | 0°♌                  |            |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 34

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| max. Earth dist.    | -3236 Sep 03 j 12:58 | 14°Ω58'43 | 1.71139 AU | minimum elong       | -3233 Feb 04 j 13:49 | 20°☾51'04 | 8°17'01    |
|                     |                      |           |            | morning rise        | -3233 Feb 08 j 03:46 | 18°☾35'57 |            |
| superior conj       | -3236 Sep 05 j 03:58 | 17°Ω01'39 | 1°21'02    | direct              | -3233 Feb 25 j 21:43 | 12°☾32'54 |            |
| minimum elong       | -3236 Sep 05 j 09:30 | 17°Ω19'04 | 1°21'03    | greatest brilliancy | -3233 Mar 06 j 21:41 | 14°☾02'59 | -4.7m      |
|                     | -3236 Sep 15 j 10:57 | 0°♍       |            |                     | -3233 Apr 01 j 19:41 | 0°≈       |            |
|                     | -3236 Oct 09 j 06:28 | 0°♌       |            | desc. node          | -3233 Apr 08 j 06:32 | 5°≈33'53  |            |
| evening rise        | -3236 Oct 16 j 01:24 | 8°♌32'14  |            | morning max el      | -3233 Apr 15 j 17:59 | 12°≈28'29 | 45°49'37   |
| desc. node          | -3236 Oct 21 j 11:35 | 15°♌21'05 |            |                     | -3233 May 03 j 05:05 | 0°♋       |            |
|                     | -3236 Nov 02 j 03:51 | 0°♍       |            |                     | -3233 May 30 j 16:22 | 0°♍       |            |
|                     | -3236 Nov 26 j 04:06 | 0°♌       |            |                     | -3233 Jun 25 j 15:40 | 0°♋       |            |
|                     | -3236 Dec 20 j 08:31 | 0°☾       |            |                     | -3233 Jul 20 j 17:32 | 0°♌       |            |
|                     | -3235 Jan 13 j 19:43 | 0°≈       |            | asc. node           | -3233 Jul 30 j 05:30 | 11°♌34'37 |            |
|                     | -3235 Feb 07 j 18:40 | 0°♋       |            |                     | -3233 Aug 14 j 04:26 | 0°☾       |            |
| asc. node           | -3235 Feb 11 j 09:05 | 4°♋15'34  |            |                     | -3233 Sep 07 j 05:19 | 0°Ω       |            |
|                     | -3235 Mar 05 j 13:57 | 0°♍       |            | greatest brilliancy | -3233 Sep 11 j 04:36 | 4°Ω59'13  | -3.9m      |
|                     | -3235 Apr 01 j 24:00 | 0°♋       |            |                     | -3233 Oct 01 j 00:58 | 0°♍       |            |
| evening max el      | -3235 Apr 17 j 17:53 | 15°♋44'59 | 45°11'04   | morning set         | -3233 Oct 11 j 13:18 | 13°♍16'24 |            |
|                     | -3235 May 03 j 23:19 | 0°♌       |            |                     | -3233 Oct 24 j 19:26 | 0°♌       |            |
| greatest brilliancy | -3235 May 25 j 18:20 | 13°♌06'21 | -4.7m      |                     | -3233 Nov 17 j 15:19 | 0°♍       |            |
| desc. node          | -3235 Jun 03 j 03:38 | 14°♌57'33 |            | desc. node          | -3233 Nov 18 j 23:37 | 1°♌41'25  |            |
| retrograde          | -3235 Jun 05 j 04:06 | 15°♌02'12 |            |                     |                      |           |            |
| evening set         | -3235 Jun 20 j 11:03 | 10°♌36'32 |            | superior conj       | -3233 Nov 22 j 07:48 | 5°♌53'04  | -0°07'50   |
| inferior conj       | -3235 Jun 26 j 10:04 | 7°♌07'11  | -5°09'03   | minimum elong       | -3233 Nov 22 j 05:38 | 5°♌46'16  | 0°07'47    |
| minimum elong       | -3235 Jun 26 j 00:25 | 7°♌21'55  | 5°06'37    | behind sun begin    | -3233 Nov 21 j 05:32 | 4°♌30'37  |            |
| min. Earth dist.    | -3235 Jun 26 j 18:08 | 6°♌54'52  | 0.28251 AU | behind sun end      | -3233 Nov 23 j 05:44 | 7°♌01'54  |            |
| morning rise        | -3235 Jul 01 j 13:15 | 4°♌03'49  |            | max. Earth dist.    | -3233 Nov 26 j 22:27 | 11°♌40'08 | 1.71299 AU |
|                     | -3235 Jul 10 j 19:35 | 30°♋♋     |            |                     | -3233 Dec 11 j 13:52 | 0°♌       |            |
| direct              | -3235 Jul 17 j 20:57 | 29°♋00'22 |            | evening rise        | -3232 Jan 03 j 03:38 | 28°♌08'33 |            |
|                     | -3235 Jul 25 j 03:45 | 0°♌       |            |                     | -3232 Jan 04 j 15:30 | 0°☾       |            |
| greatest brilliancy | -3235 Jul 28 j 23:03 | 1°♌14'19  | -4.8m      |                     | -3232 Jan 28 j 20:55 | 0°≈       |            |
|                     | -3235 Sep 04 j 23:33 | 0°☾       |            |                     | -3232 Feb 22 j 07:26 | 0°♋       |            |
| morning max el      | -3235 Sep 06 j 01:31 | 1°☾04'52  | 46°37'42   | asc. node           | -3232 Mar 10 j 21:19 | 21°♋21'51 |            |
| asc. node           | -3235 Sep 24 j 02:48 | 20°☾13'34 |            |                     | -3232 Mar 18 j 01:08 | 0°♍       |            |
|                     | -3235 Oct 02 j 19:18 | 0°Ω       |            |                     | -3232 Apr 12 j 04:48 | 0°♋       |            |
|                     | -3235 Oct 28 j 07:54 | 0°♍       |            |                     | -3232 May 07 j 23:06 | 0°♌       |            |
|                     | -3235 Nov 22 j 00:25 | 0°♌       |            |                     | -3232 Jun 03 j 18:49 | 0°☾       |            |
|                     | -3235 Dec 16 j 10:26 | 0°♍       |            | evening max el      | -3232 Jun 29 j 06:13 | 26°☾18'32 | 46°11'20   |
|                     | -3234 Jan 09 j 19:41 | 0°♌       |            | desc. node          | -3232 Jun 30 j 15:24 | 27°☾38'16 |            |
| desc. node          | -3234 Jan 13 j 21:40 | 5°♌01'06  |            |                     | -3232 Jul 03 j 03:15 | 0°Ω       |            |
|                     | -3234 Feb 03 j 05:55 | 0°☾       |            | greatest brilliancy | -3232 Aug 08 j 17:52 | 25°Ω35'27 | -4.8m      |
|                     | -3234 Feb 27 j 17:03 | 0°≈       |            | retrograde          | -3232 Aug 17 j 19:10 | 27°Ω05'28 |            |
| morning set         | -3234 Mar 13 j 08:09 | 16°≈42'10 |            | evening set         | -3232 Sep 04 j 10:40 | 21°Ω16'09 |            |
|                     | -3234 Mar 24 j 04:30 | 0°♋       |            | inferior conj       | -3232 Sep 07 j 12:31 | 19°Ω25'23 | -8°32'15   |
| max. Earth dist.    | -3234 Apr 17 j 17:10 | 0°♍04'41  | 1.73731 AU | minimum elong       | -3232 Sep 07 j 19:08 | 19°Ω15'21 | 8°31'32    |
|                     | -3234 Apr 17 j 15:39 | 0°♍       |            | min. Earth dist.    | -3232 Sep 08 j 00:36 | 19°Ω07'04 | 0.26907 AU |
|                     |                      |           |            | morning rise        | -3232 Sep 11 j 03:27 | 17°Ω15'26 |            |
| superior conj       | -3234 Apr 18 j 21:04 | 1°♍30'15  | -0°40'23   | direct              | -3232 Sep 28 j 03:42 | 11°Ω43'26 |            |
| minimum elong       | -3234 Apr 19 j 04:14 | 1°♍52'15  | 0°40'05    | greatest brilliancy | -3232 Oct 08 j 21:35 | 13°Ω54'37 | -4.9m      |
| asc. node           | -3234 May 06 j 19:30 | 23°♍31'36 |            | asc. node           | -3232 Oct 21 j 14:06 | 21°Ω00'30 |            |
|                     | -3234 May 12 j 01:53 | 0°♋       |            |                     | -3232 Nov 01 j 21:17 | 0°♍       |            |
| evening rise        | -3234 May 24 j 17:05 | 15°♋32'32 |            | morning max el      | -3232 Nov 17 j 22:54 | 15°♍23'14 | 46°51'42   |
|                     | -3234 Jun 05 j 10:54 | 0°♌       |            |                     | -3232 Dec 01 j 17:22 | 0°♌       |            |
|                     | -3234 Jun 29 j 18:59 | 0°☾       |            |                     | -3232 Dec 28 j 05:07 | 0°♍       |            |
|                     | -3234 Jul 24 j 03:24 | 0°Ω       |            |                     | -3231 Jan 22 j 18:04 | 0°♌       |            |
|                     | -3234 Aug 17 j 14:07 | 0°♍       |            | desc. node          | -3231 Feb 10 j 09:30 | 22°♌10'59 |            |
| desc. node          | -3234 Aug 26 j 13:17 | 10°♍56'58 |            |                     | -3231 Feb 16 j 22:25 | 0°☾       |            |
|                     | -3234 Sep 11 j 05:42 | 0°♌       |            |                     | -3231 Mar 13 j 22:16 | 0°≈       |            |
|                     | -3234 Oct 06 j 06:20 | 0°♍       |            |                     | -3231 Apr 07 j 18:28 | 0°♋       |            |
|                     | -3234 Nov 01 j 02:09 | 0°♌       |            |                     | -3231 May 02 j 10:50 | 0°♍       |            |
| evening max el      | -3234 Nov 24 j 16:39 | 25°♌34'52 | 47°03'49   | morning set         | -3231 May 19 j 14:36 | 20°♍58'59 |            |
|                     | -3234 Nov 29 j 02:08 | 0°☾       |            |                     | -3231 May 26 j 22:55 | 0°♋       |            |
| asc. node           | -3234 Dec 17 j 11:26 | 16°☾29'19 |            | asc. node           | -3231 Jun 03 j 07:39 | 9°♋03'39  |            |
| greatest brilliancy | -3233 Jan 03 j 14:20 | 26°☾53'13 | -4.8m      |                     | -3231 Jun 20 j 06:23 | 0°♌       |            |
| retrograde          | -3233 Jan 14 j 12:08 | 29°☾08'42 |            | max. Earth dist.    | -3231 Jun 20 j 08:23 | 0°♌06'12  | 1.72827 AU |
| evening set         | -3233 Feb 01 j 00:12 | 23°☾06'03 |            |                     |                      |           |            |
| min. Earth dist.    | -3233 Feb 04 j 00:35 | 21°☾12'12 | 0.28657 AU | superior conj       | -3231 Jun 24 j 16:05 | 5°♌27'28  | 0°47'27    |
| inferior conj       | -3233 Feb 04 j 16:45 | 20°☾46'23 | 8°17'15    | minimum elong       | -3231 Jun 24 j 08:05 | 5°♌02'42  | 0°47'13    |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3231 Jul 14 j 09:44 | 0°☾       |            | greatest brilliancy | -3229 Dec 22 j 01:35 | 29°☾57'57 | -4.9m      |
| evening rise        | -3231 Jul 30 j 23:59 | 20°☾42'34 |            |                     | -3229 Dec 22 j 03:56 | 0°☾       |            |
|                     | -3231 Aug 07 j 10:23 | 0°♊       |            | morning max el      | -3228 Jan 31 j 05:53 | 29°♊54'42 | 46°20'35   |
|                     | -3231 Aug 31 j 10:18 | 0°♊       |            |                     | -3228 Jan 31 j 08:02 | 0°♊       |            |
| desc. node          | -3231 Sep 23 j 01:25 | 28°♊14'10 |            |                     | -3228 Feb 28 j 22:51 | 0°♊       |            |
|                     | -3231 Sep 24 j 11:26 | 0°♊       |            | desc. node          | -3228 Mar 09 j 21:13 | 11°♊01'02 |            |
|                     | -3231 Oct 18 j 15:29 | 0°♊       |            |                     | -3228 Mar 26 j 14:59 | 0°♊       |            |
|                     | -3231 Nov 12 j 00:35 | 0°♊       |            |                     | -3228 Apr 21 j 10:33 | 0°♊       |            |
|                     | -3231 Dec 06 j 19:15 | 0°♊       |            |                     | -3228 May 16 j 17:13 | 0°♊       |            |
|                     | -3230 Jan 01 j 10:01 | 0°♊       |            |                     | -3228 Jun 10 j 13:38 | 0°♊       |            |
| asc. node           | -3230 Jan 13 j 23:12 | 14°♊03'24 |            | asc. node           | -3228 Jun 30 j 19:43 | 24°♊47'51 |            |
|                     | -3230 Jan 29 j 00:10 | 0°♊       |            |                     | -3228 Jul 05 j 00:58 | 0°♊       |            |
| evening max el      | -3230 Feb 03 j 14:55 | 5°♊36'44  | 45°39'51   | morning set         | -3228 Jul 26 j 17:26 | 26°♊55'32 |            |
|                     | -3230 Mar 05 j 13:15 | 0°♊       |            |                     | -3228 Jul 29 j 04:32 | 0°♊       |            |
| greatest brilliancy | -3230 Mar 13 j 18:07 | 3°♊57'03  | -4.7m      |                     | -3228 Aug 22 j 02:38 | 0°♊       |            |
| retrograde          | -3230 Mar 24 j 10:48 | 6°♊01'37  |            | max. Earth dist.    | -3228 Sep 01 j 00:21 | 12°♊28'08 | 1.71176 AU |
| evening set         | -3230 Apr 09 j 13:08 | 1°♊04'36  |            |                     |                      |           |            |
|                     | -3230 Apr 11 j 09:06 | 30°♊      |            | superior conj       | -3228 Sep 02 j 17:21 | 14°♊37'18 | 1°21'56    |
| inferior conj       | -3230 Apr 14 j 22:39 | 27°♊47'03 | 4°30'56    | minimum elong       | -3228 Sep 02 j 22:03 | 14°♊52'07 | 1°21'58    |
| minimum elong       | -3230 Apr 15 j 06:54 | 27°♊34'03 | 4°28'58    |                     | -3228 Sep 14 j 22:10 | 0°♊       |            |
| min. Earth dist.    | -3230 Apr 15 j 12:52 | 27°♊24'37 | 0.29205 AU |                     | -3228 Oct 08 j 17:49 | 0°♊       |            |
| morning rise        | -3230 Apr 21 j 00:23 | 24°♊05'23 |            | evening rise        | -3228 Oct 13 j 10:52 | 5°♊55'26  |            |
| desc. node          | -3230 May 05 j 17:59 | 19°♊23'38 |            | desc. node          | -3228 Oct 20 j 13:38 | 14°♊51'44 |            |
| direct              | -3230 May 06 j 17:23 | 19°♊22'32 |            |                     | -3228 Nov 01 j 15:20 | 0°♊       |            |
| greatest brilliancy | -3230 May 17 j 08:35 | 21°♊23'18 | -4.7m      |                     | -3228 Nov 25 j 15:44 | 0°♊       |            |
|                     | -3230 Jun 01 j 22:49 | 0°♊       |            |                     | -3228 Dec 19 j 20:20 | 0°♊       |            |
| morning max el      | -3230 Jun 24 j 17:59 | 19°♊24'29 | 45°59'02   |                     | -3227 Jan 13 j 07:54 | 0°♊       |            |
|                     | -3230 Jul 05 j 08:45 | 0°♊       |            |                     | -3227 Feb 07 j 07:36 | 0°♊       |            |
|                     | -3230 Aug 01 j 21:04 | 0°♊       |            | asc. node           | -3227 Feb 10 j 11:12 | 3°♊43'15  |            |
| asc. node           | -3230 Aug 26 j 17:17 | 29°♊05'47 |            |                     | -3227 Mar 05 j 04:29 | 0°♊       |            |
|                     | -3230 Aug 27 j 11:22 | 0°♊       |            |                     | -3227 Apr 01 j 18:31 | 0°♊       |            |
|                     | -3230 Sep 21 j 02:16 | 0°♊       |            | evening max el      | -3227 Apr 15 j 10:01 | 13°♊34'24 | 45°10'31   |
|                     | -3230 Oct 15 j 05:07 | 0°♊       |            |                     | -3227 May 04 j 11:30 | 0°♊       |            |
|                     | -3230 Nov 08 j 03:25 | 0°♊       |            | greatest brilliancy | -3227 May 23 j 07:38 | 10°♊51'04 | -4.7m      |
|                     | -3230 Dec 02 j 01:54 | 0°♊       |            | desc. node          | -3227 Jun 02 j 05:52 | 12°♊47'33 |            |
| desc. node          | -3230 Dec 16 j 11:49 | 18°♊00'27 |            | retrograde          | -3227 Jun 02 j 19:10 | 12°♊47'54 |            |
|                     | -3230 Dec 26 j 02:41 | 0°♊       |            | evening set         | -3227 Jun 17 j 23:46 | 8°♊24'55  |            |
| morning set         | -3230 Dec 27 j 23:01 | 2°♊18'01  |            | inferior conj       | -3227 Jun 24 j 00:53 | 4°♊52'15  | -4°51'36   |
|                     | -3229 Jan 19 j 06:10 | 0°♊       |            | minimum elong       | -3227 Jun 23 j 15:33 | 5°♊06'30  | 4°49'11    |
|                     |                      |           |            | min. Earth dist.    | -3227 Jun 24 j 08:49 | 4°♊40'09  | 0.28287 AU |
| superior conj       | -3229 Feb 06 j 10:07 | 22°♊29'10 | -1°23'20   | morning rise        | -3227 Jun 29 j 06:53 | 1°♊44'51  |            |
| minimum elong       | -3229 Feb 06 j 07:27 | 22°♊20'56 | 1°23'25    |                     | -3227 Jul 02 j 14:53 | 30°♊      |            |
| max. Earth dist.    | -3229 Feb 09 j 10:45 | 26°♊13'31 | 1.72894 AU | direct              | -3227 Jul 15 j 12:53 | 26°♊44'52 |            |
|                     | -3229 Feb 12 j 12:07 | 0°♊       |            | greatest brilliancy | -3227 Jul 26 j 13:42 | 28°♊57'50 | -4.8m      |
|                     | -3229 Mar 08 j 20:29 | 0°♊       |            |                     | -3227 Jul 29 j 01:10 | 0°♊       |            |
| evening rise        | -3229 Mar 16 j 11:07 | 9°♊20'51  |            | morning max el      | -3227 Sep 03 j 16:51 | 28°♊46'56 | 46°36'34   |
|                     | -3229 Apr 02 j 07:28 | 0°♊       |            |                     | -3227 Sep 04 j 21:54 | 0°♊       |            |
| asc. node           | -3229 Apr 08 j 09:24 | 7°♊26'05  |            | asc. node           | -3227 Sep 23 j 04:49 | 19°♊30'32 |            |
|                     | -3229 Apr 26 j 21:23 | 0°♊       |            |                     | -3227 Oct 02 j 11:28 | 0°♊       |            |
|                     | -3229 May 21 j 14:44 | 0°♊       |            |                     | -3227 Oct 27 j 21:52 | 0°♊       |            |
|                     | -3229 Jun 15 j 12:46 | 0°♊       |            |                     | -3227 Nov 21 j 13:19 | 0°♊       |            |
|                     | -3229 Jul 10 j 18:35 | 0°♊       |            |                     | -3227 Dec 15 j 22:42 | 0°♊       |            |
| desc. node          | -3229 Jul 29 j 03:14 | 21°♊25'02 |            |                     | -3226 Jan 09 j 07:31 | 0°♊       |            |
|                     | -3229 Aug 05 j 14:50 | 0°♊       |            | desc. node          | -3226 Jan 12 j 23:47 | 4°♊31'26  |            |
|                     | -3229 Sep 01 j 18:25 | 0°♊       |            |                     | -3226 Feb 02 j 17:24 | 0°♊       |            |
| evening max el      | -3229 Sep 11 j 19:10 | 10°♊21'55 | 47°27'52   |                     | -3226 Feb 27 j 04:16 | 0°♊       |            |
|                     | -3229 Oct 03 j 05:49 | 0°♊       |            | morning set         | -3226 Mar 11 j 00:45 | 14°♊31'53 |            |
| greatest brilliancy | -3229 Oct 22 j 18:45 | 11°♊53'29 | -4.9m      |                     | -3226 Mar 23 j 15:32 | 0°♊       |            |
| retrograde          | -3229 Nov 01 j 16:11 | 13°♊46'48 |            | max. Earth dist.    | -3226 Apr 15 j 16:45 | 28°♊16'10 | 1.73732 AU |
| evening set         | -3229 Nov 16 j 03:25 | 9°♊34'16  |            |                     |                      |           |            |
| asc. node           | -3229 Nov 19 j 01:47 | 7°♊53'31  |            | superior conj       | -3226 Apr 16 j 15:22 | 29°♊25'34 | -0°43'05   |
| min. Earth dist.    | -3229 Nov 21 j 15:54 | 6°♊18'45  | 0.26583 AU | minimum elong       | -3226 Apr 16 j 22:53 | 29°♊48'37 | 0°42'46    |
| inferior conj       | -3229 Nov 22 j 07:39 | 5°♊54'23  | 0°49'47    |                     | -3226 Apr 17 j 02:36 | 0°♊       |            |
| minimum elong       | -3229 Nov 22 j 05:49 | 5°♊57'14  | 0°49'08    | asc. node           | -3226 May 05 j 21:40 | 23°♊04'38 |            |
| morning rise        | -3229 Nov 28 j 08:45 | 2°♊19'58  |            |                     | -3226 May 11 j 12:52 | 0°♊       |            |
|                     | -3229 Dec 03 j 09:39 | 30°♊      |            | evening rise        | -3226 May 22 j 12:23 | 13°♊30'15 |            |
| direct              | -3229 Dec 12 j 13:45 | 28°♊15'23 |            |                     | -3226 Jun 04 j 22:01 | 0°♊       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|--|
|                     | -3226 Jun 29 j 06:23 | 0°☿       |            |                     |  | -3224 Dec 27 j 20:02 | 0°♍       |            |  |
|                     | -3226 Jul 23 j 15:11 | 0°♌       |            |                     |  | -3223 Jan 22 j 07:16 | 0°♊       |            |  |
|                     | -3226 Aug 17 j 02:27 | 0°♍       |            | desc. node          |  | -3223 Feb 09 j 11:35 | 21°♊40'03 |            |  |
| desc. node          | -3226 Aug 25 j 15:19 | 10°♍24'56 |            |                     |  | -3223 Feb 16 j 10:37 | 0°♊       |            |  |
|                     | -3226 Sep 10 j 18:46 | 0°♌       |            |                     |  | -3223 Mar 13 j 09:50 | 0°♌       |            |  |
|                     | -3226 Oct 05 j 20:36 | 0°♍       |            |                     |  | -3223 Apr 07 j 05:37 | 0°♋       |            |  |
|                     | -3226 Oct 31 j 18:51 | 0°♊       |            |                     |  | -3223 May 01 j 21:45 | 0°♎       |            |  |
| evening max el      | -3226 Nov 22 j 09:03 | 23°♊18'45 | 47°06'14   | morning set         |  | -3223 May 17 j 09:28 | 18°♎56'27 |            |  |
|                     | -3226 Nov 29 j 02:01 | 0°♊       |            |                     |  | -3223 May 26 j 09:41 | 0°♏       |            |  |
| asc. node           | -3226 Dec 16 j 13:35 | 15°♊18'44 |            | asc. node           |  | -3223 Jun 02 j 09:51 | 8°♏37'16  |            |  |
| greatest brilliancy | -3225 Jan 01 j 06:58 | 24°♊38'54 | -4.8m      | max. Earth dist.    |  | -3223 Jun 18 j 04:01 | 28°♏05'00 | 1.72884 AU |  |
| retrograde          | -3225 Jan 12 j 04:54 | 26°♊54'04 |            |                     |  | -3223 Jun 19 j 17:10 | 0°♏       |            |  |
| evening set         | -3225 Jan 29 j 14:37 | 20°♊54'40 |            |                     |  |                      |           |            |  |
| min. Earth dist.    | -3225 Feb 01 j 15:19 | 19°♊00'14 | 0.28598 AU | superior conj       |  | -3223 Jun 22 j 10:15 | 3°♏21'38  | 0°44'48    |  |
| inferior conj       | -3225 Feb 02 j 08:51 | 18°♊32'12 | 8°14'14    | minimum elong       |  | -3223 Jun 22 j 02:33 | 2°♏57'44  | 0°44'35    |  |
| minimum elong       | -3225 Feb 02 j 05:14 | 18°♊37'59 | 8°13'56    |                     |  | -3223 Jul 13 j 20:37 | 0°☿       |            |  |
| morning rise        | -3225 Feb 05 j 20:12 | 16°♊21'09 |            | evening rise        |  | -3223 Jul 28 j 16:09 | 18°☿28'56 |            |  |
| direct              | -3225 Feb 23 j 13:31 | 10°♊20'02 |            |                     |  | -3223 Aug 06 j 21:25 | 0°♌       |            |  |
| greatest brilliancy | -3225 Mar 04 j 11:28 | 11°♊48'35 | -4.7m      |                     |  | -3223 Aug 30 j 21:34 | 0°♍       |            |  |
|                     | -3225 Apr 02 j 01:50 | 0°♌       |            | desc. node          |  | -3223 Sep 22 j 03:29 | 27°♍44'38 |            |  |
| desc. node          | -3225 Apr 07 j 08:36 | 4°♌39'51  |            |                     |  | -3223 Sep 23 j 23:00 | 0°♌       |            |  |
| morning max el      | -3225 Apr 13 j 09:22 | 10°♌16'39 | 45°49'55   |                     |  | -3223 Oct 18 j 03:24 | 0°♍       |            |  |
|                     | -3225 May 02 j 22:41 | 0°♋       |            |                     |  | -3223 Nov 11 j 12:59 | 0°♊       |            |  |
|                     | -3225 May 30 j 06:32 | 0°♎       |            |                     |  | -3223 Dec 06 j 08:28 | 0°♊       |            |  |
|                     | -3225 Jun 25 j 04:20 | 0°♏       |            |                     |  | -3222 Jan 01 j 00:57 | 0°♌       |            |  |
|                     | -3225 Jul 20 j 05:26 | 0°♏       |            | asc. node           |  | -3222 Jan 13 j 01:18 | 13°♌24'01 |            |  |
| asc. node           | -3225 Jul 29 j 07:33 | 11°♏04'55 |            |                     |  | -3222 Jan 28 j 20:01 | 0°♋       |            |  |
|                     | -3225 Aug 13 j 15:57 | 0°☿       |            | evening max el      |  | -3222 Feb 01 j 05:22 | 3°♋22'03  | 45°42'21   |  |
|                     | -3225 Sep 06 j 16:40 | 0°♌       |            |                     |  | -3222 Mar 07 j 04:35 | 0°♎       |            |  |
| greatest brilliancy | -3225 Sep 12 j 13:48 | 7°♌23'30  | -3.9m      | greatest brilliancy |  | -3222 Mar 11 j 10:50 | 1°♎50'32  | -4.7m      |  |
|                     | -3225 Sep 30 j 12:13 | 0°♍       |            | retrograde          |  | -3222 Mar 22 j 03:47 | 3°♎55'54  |            |  |
| morning set         | -3225 Oct 09 j 00:30 | 10°♍44'53 |            |                     |  | -3222 Apr 05 j 08:54 | 30°♋      |            |  |
|                     | -3225 Oct 24 j 06:36 | 0°♌       |            | evening set         |  | -3222 Apr 07 j 08:25 | 28°♋54'44 |            |  |
|                     | -3225 Nov 17 j 02:26 | 0°♍       |            | inferior conj       |  | -3222 Apr 12 j 15:41 | 25°♋40'31 | 4°46'31    |  |
| desc. node          | -3225 Nov 18 j 01:52 | 1°♍13'33  |            | minimum elong       |  | -3222 Apr 13 j 00:11 | 25°♋27'06 | 4°44'31    |  |
|                     |                      |           |            | min. Earth dist.    |  | -3222 Apr 13 j 05:46 | 25°♋18'19 | 0.29225 AU |  |
| superior conj       | -3225 Nov 19 j 16:59 | 3°♍16'24  | -0°03'51   | morning rise        |  | -3222 Apr 18 j 15:41 | 22°♋01'13 |            |  |
| minimum elong       | -3225 Nov 19 j 15:54 | 3°♍12'59  | 0°03'52    | direct              |  | -3222 May 04 j 09:48 | 17°♋15'28 |            |  |
| behind sun begin    | -3225 Nov 18 j 13:25 | 1°♍49'48  |            | desc. node          |  | -3222 May 04 j 20:15 | 17°♋15'41 |            |  |
| behind sun end      | -3225 Nov 20 j 18:24 | 4°♍36'09  |            | greatest brilliancy |  | -3222 May 15 j 01:11 | 19°♋16'18 | -4.7m      |  |
| max. Earth dist.    | -3225 Nov 24 j 08:11 | 9°♍05'18  | 1.71251 AU |                     |  | -3222 Jun 02 j 13:20 | 0°♎       |            |  |
|                     | -3225 Dec 11 j 00:56 | 0°♊       |            | morning max el      |  | -3222 Jun 22 j 10:30 | 17°♎15'43 | 45°58'03   |  |
| evening rise        | -3225 Dec 31 j 15:13 | 25°♊40'52 |            |                     |  | -3222 Jul 05 j 03:17 | 0°♏       |            |  |
|                     | -3224 Jan 04 j 02:35 | 0°♊       |            |                     |  | -3222 Aug 01 j 11:34 | 0°♏       |            |  |
|                     | -3224 Jan 28 j 08:04 | 0°♌       |            | asc. node           |  | -3222 Aug 25 j 19:23 | 28°♏33'15 |            |  |
| asc. node           | -3224 Feb 21 j 18:46 | 0°♋       |            |                     |  | -3222 Aug 27 j 00:16 | 0°☿       |            |  |
|                     | -3224 Mar 09 j 23:19 | 20°♋52'55 |            |                     |  | -3222 Sep 20 j 14:23 | 0°♌       |            |  |
|                     | -3224 Mar 17 j 12:51 | 0°♎       |            |                     |  | -3222 Oct 14 j 16:48 | 0°♍       |            |  |
|                     | -3224 Apr 11 j 17:18 | 0°♏       |            |                     |  | -3222 Nov 07 j 14:51 | 0°♌       |            |  |
|                     | -3224 May 07 j 13:06 | 0°♏       |            |                     |  | -3222 Dec 01 j 13:09 | 0°♍       |            |  |
|                     | -3224 Jun 03 j 11:57 | 0°☿       |            | desc. node          |  | -3222 Dec 15 j 13:52 | 17°♍32'04 |            |  |
| evening max el      | -3224 Jun 26 j 18:29 | 23°☿54'35 | 46°08'09   | morning set         |  | -3222 Dec 25 j 09:29 | 29°♍46'41 |            |  |
| desc. node          | -3224 Jun 29 j 17:31 | 26°☿44'10 |            |                     |  | -3222 Dec 25 j 13:46 | 0°♊       |            |  |
|                     | -3224 Jul 03 j 05:45 | 0°♌       |            |                     |  | -3221 Jan 18 j 17:04 | 0°♊       |            |  |
| greatest brilliancy | -3224 Aug 06 j 06:07 | 23°♌09'22 | -4.8m      |                     |  |                      |           |            |  |
| retrograde          | -3224 Aug 15 j 06:25 | 24°♌38'43 |            | superior conj       |  | -3221 Feb 04 j 00:27 | 20°♊11'49 | -1°22'49   |  |
| evening set         | -3224 Sep 02 j 00:59 | 18°♌46'32 |            | minimum elong       |  | -3221 Feb 03 j 20:57 | 20°♊01'00 | 1°22'54    |  |
| inferior conj       | -3224 Sep 05 j 00:54 | 16°♌58'38 | -8°38'50   | max. Earth dist.    |  | -3221 Feb 07 j 01:36 | 23°♊57'52 | 1.72838 AU |  |
| minimum elong       | -3224 Sep 05 j 06:42 | 16°♌49'50 | 8°38'15    |                     |  | -3221 Feb 11 j 22:52 | 0°♌       |            |  |
| min. Earth dist.    | -3224 Sep 05 j 13:30 | 16°♌39'30 | 0.26954 AU |                     |  | -3221 Mar 08 j 07:11 | 0°♋       |            |  |
| morning rise        | -3224 Sep 08 j 12:14 | 14°♌53'43 |            | evening rise        |  | -3221 Mar 14 j 04:12 | 7°♋13'04  |            |  |
| direct              | -3224 Sep 25 j 16:10 | 9°♌15'44  |            |                     |  | -3221 Apr 01 j 18:16 | 0°♎       |            |  |
| greatest brilliancy | -3224 Oct 06 j 11:41 | 11°♌27'50 | -4.9m      | asc. node           |  | -3221 Apr 07 j 11:37 | 6°♎59'47  |            |  |
| asc. node           | -3224 Oct 20 j 16:20 | 19°♌38'58 |            |                     |  | -3221 Apr 26 j 08:26 | 0°♏       |            |  |
|                     | -3224 Nov 02 j 04:40 | 0°♍       |            |                     |  | -3221 May 21 j 02:14 | 0°♏       |            |  |
| morning max el      | -3224 Nov 15 j 11:06 | 12°♍53'05 | 46°52'19   |                     |  | -3221 May 15 j 01:01 | 0°☿       |            |  |
|                     | -3224 Dec 01 j 11:58 | 0°♌       |            |                     |  | -3221 Jul 10 j 08:02 | 0°♌       |            |  |

|                     |                      |           |            |  |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|--|---------------------|----------------------|-----------|------------|
| desc. node          | -3221 Jul 28 j 05:15 | 20°♊48'10 |            |  |                     | -3218 Jan 08 j 19:04 | 0°♏       |            |
|                     | -3221 Aug 05 j 06:25 | 0°♐       |            |  | desc. node          | -3218 Jan 12 j 01:49 | 4°♏02'16  |            |
|                     | -3221 Sep 01 j 14:44 | 0°♑       |            |  |                     | -3218 Feb 02 j 04:36 | 0°♐       |            |
| evening max el      | -3221 Sep 09 j 09:02 | 7°♑57'53  | 47°26'34   |  |                     | -3218 Feb 26 j 15:13 | 0°♑       |            |
|                     | -3221 Oct 03 j 23:24 | 0°♒       |            |  | morning set         | -3218 Mar 08 j 17:25 | 12°♑22'32 |            |
| greatest brilliancy | -3221 Oct 20 j 08:39 | 9°♒25'27  | -4.9m      |  |                     | -3218 Mar 23 j 02:19 | 0°♒       |            |
| retrograde          | -3221 Oct 30 j 05:40 | 11°♒18'16 |            |  | max. Earth dist.    | -3218 Apr 13 j 15:32 | 26°♒25'59 | 1.73725 AU |
| evening set         | -3221 Nov 13 j 16:36 | 7°♒05'22  |            |  |                     |                      |           |            |
| asc. node           | -3221 Nov 18 j 03:59 | 4°♒28'42  |            |  | superior conj       | -3218 Apr 14 j 09:58 | 27°♒22'34 | -0°45'41   |
| min. Earth dist.    | -3221 Nov 19 j 05:39 | 3°♒49'16  | 0.26544 AU |  | minimum elong       | -3218 Apr 14 j 17:47 | 27°♒46'33 | 0°45'23    |
| inferior conj       | -3221 Nov 19 j 20:21 | 3°♒26'37  | 0°25'53    |  |                     | -3218 Apr 16 j 13:17 | 0°♑       |            |
| minimum elong       | -3221 Nov 19 j 19:23 | 3°♒28'06  | 0°25'32    |  | asc. node           | -3218 May 04 j 23:51 | 22°♑38'34 |            |
| morning rise        | -3221 Nov 25 j 22:43 | 29°♑51'11 |            |  |                     | -3218 May 10 j 23:33 | 0°♑       |            |
|                     | -3221 Nov 25 j 16:11 | 30°♒♌     |            |  | evening rise        | -3218 May 20 j 08:01 | 11°♑29'58 |            |
| direct              | -3221 Dec 10 j 02:19 | 25°♑48'11 |            |  |                     | -3218 Jun 04 j 08:50 | 0°♒       |            |
| greatest brilliancy | -3221 Dec 19 j 15:13 | 27°♑32'13 | -4.9m      |  |                     | -3218 Jun 28 j 17:29 | 0°♑       |            |
|                     | -3221 Dec 25 j 08:10 | 0°♒       |            |  |                     | -3218 Jul 23 j 02:44 | 0°♑       |            |
| morning max el      | -3220 Jan 28 j 20:47 | 27°♒36'41 | 46°22'06   |  |                     | -3218 Aug 16 j 14:36 | 0°♐       |            |
|                     | -3220 Jan 31 j 06:42 | 0°♏       |            |  | desc. node          | -3218 Aug 24 j 17:25 | 9°♐53'34  |            |
|                     | -3220 Feb 28 j 14:51 | 0°♐       |            |  |                     | -3218 Sep 10 j 07:47 | 0°♑       |            |
| desc. node          | -3220 Mar 08 j 23:15 | 10°♐25'02 |            |  |                     | -3218 Oct 05 j 10:57 | 0°♒       |            |
|                     | -3220 Mar 26 j 04:25 | 0°♑       |            |  |                     | -3218 Oct 31 j 11:51 | 0°♏       |            |
|                     | -3220 Apr 20 j 22:41 | 0°♒       |            |  | evening max el      | -3218 Nov 20 j 00:46 | 21°♏00'39 | 47°08'38   |
|                     | -3220 May 16 j 04:39 | 0°♑       |            |  |                     | -3218 Nov 29 j 03:06 | 0°♐       |            |
| asc. node           | -3220 Jun 10 j 00:41 | 0°♑       |            |  | asc. node           | -3218 Dec 15 j 15:38 | 14°♐05'49 |            |
|                     | -3220 Jun 29 j 21:45 | 24°♑20'35 |            |  | greatest brilliancy | -3218 Dec 30 j 00:06 | 22°♐24'50 | -4.9m      |
|                     | -3220 Jul 04 j 11:50 | 0°♒       |            |  | retrograde          | -3217 Jan 09 j 21:03 | 24°♐39'01 |            |
| morning set         | -3220 Jul 24 j 09:29 | 24°♒42'10 |            |  | evening set         | -3217 Jan 27 j 04:40 | 18°♐43'28 |            |
|                     | -3220 Jul 28 j 15:22 | 0°♑       |            |  | min. Earth dist.    | -3217 Jan 30 j 06:17 | 16°♐47'33 | 0.28531 AU |
|                     | -3220 Aug 21 j 13:30 | 0°♑       |            |  | inferior conj       | -3217 Jan 31 j 00:49 | 16°♐17'54 | 8°10'31    |
| max. Earth dist.    | -3220 Aug 29 j 08:26 | 9°♑48'07  | 1.71216 AU |  | minimum elong       | -3217 Jan 30 j 20:31 | 16°♐24'47 | 8°10'08    |
|                     |                      |           |            |  | morning rise        | -3217 Feb 03 j 12:43 | 14°♐05'50 |            |
| superior conj       | -3220 Aug 31 j 06:42 | 12°♑13'45 | 1°22'41    |  | direct              | -3217 Feb 21 j 04:44 | 8°♐07'02  |            |
| minimum elong       | -3220 Aug 31 j 10:32 | 12°♑25'50 | 1°22'44    |  | greatest brilliancy | -3217 Mar 02 j 01:37 | 9°♐34'31  | -4.8m      |
|                     | -3220 Sep 14 j 09:08 | 0°♐       |            |  |                     | -3217 Apr 02 j 05:51 | 0°♑       |            |
|                     | -3220 Oct 08 j 04:53 | 0°♑       |            |  | desc. node          | -3217 Apr 06 j 10:52 | 3°♑47'40  |            |
| evening rise        | -3220 Oct 10 j 20:05 | 3°♑18'40  |            |  | morning max el      | -3217 Apr 10 j 23:58 | 8°♑03'12  | 45°50'25   |
| desc. node          | -3220 Oct 19 j 15:50 | 14°♑23'45 |            |  |                     | -3217 May 02 j 15:43 | 0°♒       |            |
|                     | -3220 Nov 01 j 02:31 | 0°♒       |            |  |                     | -3217 May 29 j 20:23 | 0°♑       |            |
|                     | -3220 Nov 25 j 03:02 | 0°♏       |            |  |                     | -3217 Jun 24 j 16:45 | 0°♑       |            |
|                     | -3220 Dec 19 j 07:51 | 0°♐       |            |  |                     | -3217 Jul 19 j 17:07 | 0°♒       |            |
|                     | -3219 Jan 12 j 19:48 | 0°♑       |            |  | asc. node           | -3217 Jul 28 j 09:41 | 10°♒36'10 |            |
|                     | -3219 Feb 06 j 20:16 | 0°♒       |            |  |                     | -3217 Aug 13 j 03:16 | 0°♑       |            |
| asc. node           | -3219 Feb 09 j 13:16 | 3°♒11'42  |            |  |                     | -3217 Sep 06 j 03:50 | 0°♑       |            |
|                     | -3219 Mar 04 j 18:46 | 0°♑       |            |  | greatest brilliancy | -3217 Sep 13 j 08:32 | 9°♑02'54  | -3.9m      |
|                     | -3219 Apr 01 j 12:58 | 0°♑       |            |  |                     | -3217 Sep 29 j 23:21 | 0°♐       |            |
| evening max el      | -3219 Apr 13 j 02:29 | 11°♑26'08 | 45°10'05   |  | morning set         | -3217 Oct 06 j 11:42 | 8°♐13'33  |            |
|                     | -3219 May 05 j 02:44 | 0°♒       |            |  |                     | -3217 Oct 23 j 17:45 | 0°♑       |            |
| greatest brilliancy | -3219 May 20 j 21:46 | 8°♒38'50  | -4.7m      |  |                     | -3217 Nov 16 j 13:35 | 0°♒       |            |
| retrograde          | -3219 May 31 j 10:01 | 10°♒35'57 |            |  |                     |                      |           |            |
| desc. node          | -3219 Jun 01 j 07:54 | 10°♒35'00 |            |  | superior conj       | -3217 Nov 17 j 01:46 | 0°♒38'16  | 0°00'13    |
| evening set         | -3219 Jun 15 j 13:05 | 6°♒15'31  |            |  | minimum elong       | -3217 Nov 17 j 01:47 | 0°♒38'20  | 0°00'10    |
| inferior conj       | -3219 Jun 21 j 16:04 | 2°♒39'48  | -4°33'53   |  | behind sun begin    | -3217 Nov 15 j 22:53 | 29°♑13'52 |            |
| minimum elong       | -3219 Jun 21 j 07:07 | 2°♒53'30  | 4°31'31    |  | behind sun end      | -3217 Nov 18 j 04:41 | 2°♒02'48  |            |
| min. Earth dist.    | -3219 Jun 22 j 00:01 | 2°♒27'37  | 0.28326 AU |  | desc. node          | -3217 Nov 17 j 03:57 | 0°♒45'10  |            |
|                     | -3219 Jun 26 j 02:26 | 30°♒♉     |            |  | max. Earth dist.    | -3217 Nov 21 j 13:04 | 6°♒15'03  | 1.71209 AU |
| morning rise        | -3219 Jun 27 j 00:43 | 29°♑28'19 |            |  |                     | -3217 Dec 10 j 12:04 | 0°♏       |            |
| direct              | -3219 Jul 13 j 05:04 | 24°♑31'50 |            |  | evening rise        | -3217 Dec 29 j 02:03 | 23°♏10'33 |            |
| greatest brilliancy | -3219 Jul 24 j 04:44 | 26°♑43'33 | -4.8m      |  |                     | -3216 Jan 03 j 13:43 | 0°♐       |            |
|                     | -3219 Jul 31 j 02:05 | 0°♒       |            |  |                     | -3216 Jan 27 j 19:15 | 0°♑       |            |
| morning max el      | -3219 Sep 01 j 07:40 | 26°♒28'46 | 46°35'06   |  |                     | -3216 Feb 21 j 06:07 | 0°♒       |            |
|                     | -3219 Sep 04 j 19:05 | 0°♑       |            |  | asc. node           | -3216 Mar 09 j 01:33 | 20°♒24'36 |            |
| asc. node           | -3219 Sep 22 j 07:02 | 18°♑49'11 |            |  |                     | -3216 Mar 17 j 00:37 | 0°♑       |            |
|                     | -3219 Oct 02 j 03:11 | 0°♑       |            |  |                     | -3216 Apr 11 j 05:52 | 0°♑       |            |
|                     | -3219 Oct 27 j 11:34 | 0°♐       |            |  |                     | -3216 May 07 j 03:12 | 0°♒       |            |
|                     | -3219 Nov 21 j 01:59 | 0°♑       |            |  |                     | -3216 Jun 03 j 05:20 | 0°♑       |            |
|                     | -3219 Dec 15 j 10:43 | 0°♒       |            |  | evening max el      | -3216 Jun 24 j 06:42 | 21°♑31'12 | 46°05'15   |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.




































































































































|                     |                      |                                   |            |                     |                      |                                   |            |
|---------------------|----------------------|-----------------------------------|------------|---------------------|----------------------|-----------------------------------|------------|
| desc. node          | -3216 Jun 28 j 19:35 | 25° $\mathfrak{D}$ 49'21          |            |                     | -3214 Dec 25 j 01:02 | 0° $\mathfrak{X}$                 |            |
|                     | -3216 Jul 03 j 09:33 | 0° $\mathfrak{Q}$                 |            |                     | -3213 Jan 18 j 04:14 | 0° $\mathfrak{Z}$                 |            |
| greatest brilliancy | -3216 Aug 03 j 18:14 | 20° $\mathfrak{Q}$ 44'31          | -4.8m      |                     |                      |                                   |            |
| retrograde          | -3216 Aug 12 j 18:11 | 22° $\mathfrak{Q}$ 13'57          |            | superior conj       | -3213 Feb 01 j 14:22 | 17° $\mathfrak{Z}$ 52'03          | -1°22'10   |
| evening set         | -3216 Aug 30 j 15:10 | 16° $\mathfrak{Q}$ 19'05          |            | minimum elong       | -3213 Feb 01 j 10:02 | 17° $\mathfrak{Z}$ 38'40          | 1°22'13    |
| inferior conj       | -3216 Sep 02 j 13:38 | 14° $\mathfrak{Q}$ 33'31          | -8°44'06   | max. Earth dist.    | -3213 Feb 04 j 16:17 | 21° $\mathfrak{Z}$ 40'35          | 1.72790 AU |
| minimum elong       | -3216 Sep 02 j 18:35 | 14° $\mathfrak{Q}$ 26'01          | 8°43'41    |                     | -3213 Feb 11 j 09:58 | 0° $\approx$                      |            |
| min. Earth dist.    | -3216 Sep 03 j 02:34 | 14° $\mathfrak{Q}$ 13'56          | 0.27005 AU |                     | -3213 Mar 07 j 18:16 | 0° $\mathfrak{H}$                 |            |
| morning rise        | -3216 Sep 05 j 21:49 | 12° $\mathfrak{Q}$ 33'17          |            | evening rise        | -3213 Mar 11 j 20:44 | 5° $\mathfrak{H}$ 02'27           |            |
| direct              | -3216 Sep 23 j 05:02 | 6° $\mathfrak{Q}$ 49'30           |            | greatest brilliancy | -3213 Mar 12 j 14:34 | 5° $\mathfrak{H}$ 57'13           | -3.9m      |
| greatest brilliancy | -3216 Oct 04 j 02:17 | 9° $\mathfrak{Q}$ 02'56           | -4.9m      |                     | -3213 Apr 01 j 05:26 | 0° $\mathfrak{Y}$                 |            |
| asc. node           | -3216 Oct 19 j 18:31 | 18° $\mathfrak{Q}$ 20'37          |            | asc. node           | -3213 Apr 06 j 13:43 | 6° $\mathfrak{Y}$ 32'01           |            |
|                     | -3216 Nov 02 j 09:44 | 0° $\mathfrak{P}$                 |            |                     | -3213 Apr 25 j 19:52 | 0° $\mathfrak{B}$                 |            |
| morning max el      | -3216 Nov 13 j 00:10 | 10° $\mathfrak{P}$ 25'12          | 46°52'34   |                     | -3213 May 20 j 14:07 | 0° $\mathfrak{I}$                 |            |
|                     | -3216 Dec 01 j 06:09 | 0° $\mathfrak{A}$                 |            |                     | -3213 Jun 14 j 13:40 | 0° $\mathfrak{D}$                 |            |
|                     | -3216 Dec 27 j 10:57 | 0° $\mathfrak{M}$                 |            |                     | -3213 Jul 09 j 21:56 | 0° $\mathfrak{Q}$                 |            |
|                     | -3215 Jan 21 j 20:35 | 0° $\mathfrak{X}$                 |            | desc. node          | -3213 Jul 27 j 07:24 | 20° $\mathfrak{Q}$ 10'28          |            |
| desc. node          | -3215 Feb 08 j 13:41 | 21° $\mathfrak{X}$ 08'39          |            |                     | -3213 Aug 04 j 22:33 | 0° $\mathfrak{P}$                 |            |
|                     | -3215 Feb 15 j 23:00 | 0° $\mathfrak{Z}$                 |            |                     | -3213 Sep 01 j 12:02 | 0° $\mathfrak{A}$                 |            |
|                     | -3215 Mar 12 j 21:33 | 0° $\approx$                      |            | evening max el      | -3213 Sep 06 j 23:58 | 5° $\mathfrak{A}$ 35'57           | 47°25'13   |
|                     | -3215 Apr 06 j 16:54 | 0° $\mathfrak{H}$                 |            |                     | -3213 Oct 04 j 23:23 | 0° $\mathfrak{M}$                 |            |
|                     | -3215 May 01 j 08:45 | 0° $\mathfrak{Y}$                 |            | greatest brilliancy | -3213 Oct 17 j 22:23 | 6° $\mathfrak{M}$ 56'49           | -4.9m      |
| morning set         | -3215 May 15 j 04:14 | 16° $\mathfrak{Y}$ 53'23          |            | retrograde          | -3213 Oct 27 j 19:25 | 8° $\mathfrak{M}$ 49'08           |            |
|                     | -3215 May 25 j 20:34 | 0° $\mathfrak{B}$                 |            | evening set         | -3213 Nov 11 j 06:05 | 4° $\mathfrak{M}$ 35'52           |            |
| asc. node           | -3215 Jun 01 j 11:51 | 8° $\mathfrak{B}$ 09'55           |            | inferior conj       | -3213 Nov 17 j 09:05 | 0° $\mathfrak{M}$ 58'20           | 0°02'01    |
| max. Earth dist.    | -3215 Jun 16 j 00:59 | 26° $\mathfrak{B}$ 07'38          | 1.72937 AU | minimum elong       | -3213 Nov 17 j 09:01 | 0° $\mathfrak{M}$ 58'27           | 0°01'55    |
|                     | -3215 Jun 19 j 04:03 | 0° $\mathfrak{I}$                 |            | transit middle      | -3213 Nov 17 j 09:01 | 0° $\mathfrak{M}$ 58'27           | 0°01'55    |
|                     |                      |                                   |            | transit begin       | -3213 Nov 17 j 04:59 | 1° $\mathfrak{M}$ 04'39           |            |
| superior conj       | -3215 Jun 20 j 04:35 | 1° $\mathfrak{I}$ 15'57           | 0°42'07    | transit end         | -3213 Nov 17 j 13:03 | 0° $\mathfrak{M}$ 52'15           |            |
| minimum elong       | -3215 Jun 19 j 21:11 | 0° $\mathfrak{I}$ 53'03           | 0°41'54    | min. Earth dist.    | -3213 Nov 16 j 19:18 | 1° $\mathfrak{M}$ 19'33           | 0.26506 AU |
|                     | -3215 Jul 13 j 07:36 | 0° $\mathfrak{D}$                 |            | asc. node           | -3213 Nov 17 j 05:57 | 1° $\mathfrak{M}$ 03'09           |            |
| evening rise        | -3215 Jul 26 j 08:49 | 16° $\mathfrak{D}$ 16'39          |            |                     | -3213 Nov 18 j 23:09 | 30° $\mathfrak{R}$ $\mathfrak{A}$ |            |
|                     | -3215 Aug 06 j 08:33 | 0° $\mathfrak{Q}$                 |            | morning rise        | -3213 Nov 23 j 12:32 | 27° $\mathfrak{A}$ 22'04          |            |
|                     | -3215 Aug 30 j 08:55 | 0° $\mathfrak{P}$                 |            | direct              | -3213 Dec 07 j 15:19 | 23° $\mathfrak{A}$ 20'43          |            |
| desc. node          | -3215 Sep 21 j 05:42 | 27° $\mathfrak{P}$ 15'26          |            | greatest brilliancy | -3213 Dec 17 j 04:30 | 25° $\mathfrak{A}$ 05'30          | -4.9m      |
|                     | -3215 Sep 23 j 10:38 | 0° $\mathfrak{A}$                 |            |                     | -3213 Dec 27 j 05:05 | 0° $\mathfrak{M}$                 |            |
|                     | -3215 Oct 17 j 15:26 | 0° $\mathfrak{M}$                 |            | morning max el      | -3212 Jan 26 j 11:30 | 25° $\mathfrak{M}$ 17'27          | 46°23'21   |
|                     | -3215 Nov 11 j 01:34 | 0° $\mathfrak{X}$                 |            |                     | -3212 Jan 31 j 04:45 | 0° $\mathfrak{X}$                 |            |
|                     | -3215 Dec 05 j 21:59 | 0° $\mathfrak{Z}$                 |            |                     | -3212 Feb 28 j 06:56 | 0° $\mathfrak{Z}$                 |            |
|                     | -3215 Dec 31 j 16:25 | 0° $\approx$                      |            | desc. node          | -3212 Mar 08 j 01:29 | 9° $\mathfrak{Z}$ 48'47           |            |
| asc. node           | -3214 Jan 12 j 03:25 | 12° $\approx$ 43'09               |            |                     | -3212 Mar 25 j 18:09 | 0° $\approx$                      |            |
|                     | -3214 Jan 28 j 17:02 | 0° $\mathfrak{H}$                 |            |                     | -3212 Apr 20 j 11:13 | 0° $\mathfrak{H}$                 |            |
| evening max el      | -3214 Jan 29 j 20:34 | 1° $\mathfrak{H}$ 07'58           | 45°44'56   |                     | -3212 May 15 j 16:30 | 0° $\mathfrak{Y}$                 |            |
| greatest brilliancy | -3214 Mar 09 j 02:56 | 29° $\mathfrak{H}$ 41'50          | -4.7m      |                     | -3212 Jun 09 j 12:08 | 0° $\mathfrak{B}$                 |            |
|                     | -3214 Mar 09 j 23:02 | 0° $\mathfrak{Y}$                 |            | asc. node           | -3212 Jun 28 j 23:53 | 23° $\mathfrak{B}$ 52'31          |            |
| retrograde          | -3214 Mar 19 j 21:01 | 1° $\mathfrak{Y}$ 48'28           |            |                     | -3212 Jul 03 j 23:03 | 0° $\mathfrak{I}$                 |            |
|                     | -3214 Mar 29 j 09:07 | 30° $\mathfrak{R}$ $\mathfrak{H}$ |            | morning set         | -3212 Jul 22 j 01:25 | 22° $\mathfrak{I}$ 27'31          |            |
| evening set         | -3214 Apr 05 j 03:33 | 26° $\mathfrak{H}$ 43'07          |            |                     | -3212 Jul 28 j 02:30 | 0° $\mathfrak{D}$                 |            |
| inferior conj       | -3214 Apr 10 j 08:30 | 23° $\mathfrak{H}$ 32'14          | 5°01'42    |                     | -3212 Aug 21 j 00:41 | 0° $\mathfrak{Q}$                 |            |
| minimum elong       | -3214 Apr 10 j 17:13 | 23° $\mathfrak{H}$ 18'30          | 4°59'44    | max. Earth dist.    | -3212 Aug 26 j 14:34 | 7° $\mathfrak{Q}$ 01'05           | 1.71258 AU |
| min. Earth dist.    | -3214 Apr 10 j 22:06 | 23° $\mathfrak{H}$ 10'47          | 0.29241 AU |                     |                      |                                   |            |
| morning rise        | -3214 Apr 16 j 06:38 | 19° $\mathfrak{H}$ 55'43          |            | superior conj       | -3212 Aug 28 j 20:12 | 9° $\mathfrak{Q}$ 49'50           | 1°23'16    |
| direct              | -3214 May 02 j 02:23 | 15° $\mathfrak{H}$ 06'51          |            | minimum elong       | -3212 Aug 28 j 23:10 | 9° $\mathfrak{Q}$ 59'11           | 1°23'21    |
| desc. node          | -3214 May 03 j 22:16 | 15° $\mathfrak{H}$ 10'41          |            |                     | -3212 Sep 13 j 20:25 | 0° $\mathfrak{P}$                 |            |
| greatest brilliancy | -3214 May 12 j 17:04 | 17° $\mathfrak{H}$ 07'24          | -4.7m      |                     | -3212 Oct 07 j 16:18 | 0° $\mathfrak{A}$                 |            |
|                     | -3214 Jun 03 j 00:38 | 0° $\mathfrak{Y}$                 |            | evening rise        | -3212 Oct 08 j 05:28 | 0° $\mathfrak{A}$ 41'25           |            |
| morning max el      | -3214 Jun 20 j 03:34 | 15° $\mathfrak{Y}$ 07'37          | 45°57'09   | desc. node          | -3212 Oct 18 j 17:52 | 13° $\mathfrak{A}$ 54'15          |            |
|                     | -3214 Jul 04 j 21:39 | 0° $\mathfrak{B}$                 |            |                     | -3212 Oct 31 j 14:01 | 0° $\mathfrak{M}$                 |            |
|                     | -3214 Aug 01 j 02:09 | 0° $\mathfrak{I}$                 |            |                     | -3212 Nov 24 j 14:39 | 0° $\mathfrak{X}$                 |            |
| asc. node           | -3214 Aug 24 j 21:32 | 28° $\mathfrak{I}$ 00'26          |            |                     | -3212 Dec 18 j 19:39 | 0° $\mathfrak{Z}$                 |            |
|                     | -3214 Aug 26 j 13:17 | 0° $\mathfrak{D}$                 |            |                     | -3211 Jan 12 j 08:00 | 0° $\approx$                      |            |
|                     | -3214 Sep 20 j 02:37 | 0° $\mathfrak{Q}$                 |            |                     | -3211 Feb 06 j 09:18 | 0° $\mathfrak{H}$                 |            |
|                     | -3214 Oct 14 j 04:36 | 0° $\mathfrak{P}$                 |            | asc. node           | -3211 Feb 08 j 15:27 | 2° $\mathfrak{H}$ 39'28           |            |
|                     | -3214 Nov 07 j 02:24 | 0° $\mathfrak{A}$                 |            |                     | -3211 Mar 04 j 09:36 | 0° $\mathfrak{Y}$                 |            |
|                     | -3214 Dec 01 j 00:32 | 0° $\mathfrak{M}$                 |            |                     | -3211 Apr 01 j 08:27 | 0° $\mathfrak{B}$                 |            |
| desc. node          | -3214 Dec 14 j 15:54 | 17° $\mathfrak{M}$ 03'08          |            | evening max el      | -3211 Apr 10 j 18:16 | 9° $\mathfrak{B}$ 14'46           | 45°09'33   |
| morning set         | -3214 Dec 22 j 20:02 | 27° $\mathfrak{M}$ 14'53          |            |                     | -3211 May 06 j 00:18 | 0° $\mathfrak{I}$                 |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 39

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                     |            |                     |                      |                     |            |
|---------------------|----------------------|---------------------|------------|---------------------|----------------------|---------------------|------------|
| greatest brilliancy | -3211 May 18 j 12:27 | 6° $\Pi$ 25'30      | -4.7m      | superior conj       | -3209 Nov 14 j 10:29 | 27° $\Omega$ 59'24  | 0°04'17    |
| retrograde          | -3211 May 29 j 00:17 | 8° $\Pi$ 22'20      |            | minimum elong       | -3209 Nov 14 j 11:39 | 28° $\Omega$ 03'03  | 0°04'11    |
| desc. node          | -3211 May 31 j 09:58 | 8° $\Pi$ 15'41      |            | behind sun begin    | -3209 Nov 13 j 09:16 | 26° $\Omega$ 40'10  |            |
| evening set         | -3211 Jun 13 j 02:26 | 4° $\Pi$ 04'14      |            | behind sun end      | -3209 Nov 15 j 14:01 | 29° $\Omega$ 25'55  |            |
| inferior conj       | -3211 Jun 19 j 07:09 | 0° $\Pi$ 25'51      | -4°15'46   | desc. node          | -3209 Nov 16 j 05:56 | 0° $\Pi$ 15'52      |            |
| minimum elong       | -3211 Jun 18 j 22:38 | 0° $\Pi$ 38'56      | 4°13'28    |                     | -3209 Nov 16 j 00:52 | 0° $\Pi$            |            |
| min. Earth dist.    | -3211 Jun 19 j 15:32 | 0° $\Pi$ 13'00      | 0.28362 AU | max. Earth dist.    | -3209 Nov 18 j 16:21 | 3° $\Pi$ 19'18      | 1.71169 AU |
|                     | -3211 Jun 19 j 24:00 | 30° $\kappa$ 8      |            |                     | -3209 Dec 09 j 23:22 | 0° $\chi$           |            |
| morning rise        | -3211 Jun 24 j 18:20 | 27° $\chi$ 10'20    |            | evening rise        | -3209 Dec 26 j 12:50 | 20° $\chi$ 39'35    |            |
| direct              | -3211 Jul 10 j 20:42 | 22° $\chi$ 17'17    |            |                     | -3208 Jan 03 j 01:02 | 0° $\Xi$            |            |
| greatest brilliancy | -3211 Jul 21 j 20:11 | 24° $\chi$ 28'20    | -4.8m      |                     | -3208 Jan 27 j 06:36 | 0° $\approx$        |            |
|                     | -3211 Aug 01 j 11:35 | 0° $\Pi$            |            |                     | -3208 Feb 20 j 17:38 | 0° $\chi$           |            |
| morning max el      | -3211 Aug 29 j 21:18 | 24° $\Pi$ 06'36     | 46°33'43   | asc. node           | -3208 Mar 08 j 03:39 | 19° $\chi$ 55'26    |            |
|                     | -3211 Sep 04 j 15:59 | 0° $\Xi$            |            |                     | -3208 Mar 16 j 12:31 | 0° $\Psi$           |            |
| asc. node           | -3211 Sep 21 j 09:13 | 18° $\Xi$ 07'15     |            |                     | -3208 Apr 10 j 18:37 | 0° $\chi$           |            |
|                     | -3211 Oct 01 j 18:59 | 0° $\Omega$         |            |                     | -3208 May 06 j 17:36 | 0° $\Pi$            |            |
|                     | -3211 Oct 27 j 01:26 | 0° $\Pi$            |            |                     | -3208 Jun 02 j 23:21 | 0° $\Xi$            |            |
|                     | -3211 Nov 20 j 14:52 | 0° $\Omega$         |            | evening max el      | -3208 Jun 21 j 19:00 | 19° $\Xi$ 07'32     | 46°02'12   |
|                     | -3211 Dec 14 j 22:59 | 0° $\Pi$            |            | desc. node          | -3208 Jun 27 j 21:44 | 24° $\Xi$ 52'43     |            |
|                     | -3210 Jan 08 j 06:52 | 0° $\chi$           |            |                     | -3208 Jul 03 j 15:38 | 0° $\Omega$         |            |
| desc. node          | -3210 Jan 11 j 03:59 | 3° $\chi$ 32'47     |            | greatest brilliancy | -3208 Aug 01 j 05:27 | 18° $\Omega$ 17'33  | -4.8m      |
|                     | -3210 Feb 01 j 16:03 | 0° $\Xi$            |            | retrograde          | -3208 Aug 10 j 06:17 | 19° $\Omega$ 47'54  |            |
|                     | -3210 Feb 26 j 02:25 | 0° $\approx$        |            | evening set         | -3208 Aug 28 j 04:41 | 13° $\Omega$ 50'42  |            |
| morning set         | -3210 Mar 06 j 10:02 | 10° $\approx$ 12'17 |            | inferior conj       | -3208 Aug 31 j 02:05 | 12° $\Omega$ 06'54  | -8°48'28   |
|                     | -3210 Mar 22 j 13:21 | 0° $\chi$           |            | minimum elong       | -3208 Aug 31 j 06:08 | 12° $\Omega$ 00'46  | 8°48'10    |
| max. Earth dist.    | -3210 Apr 11 j 13:03 | 24° $\chi$ 31'05    | 1.73722 AU | min. Earth dist.    | -3208 Aug 31 j 15:03 | 11° $\Omega$ 47'18  | 0.27057 AU |
|                     |                      |                     |            | morning rise        | -3208 Sep 03 j 07:25 | 10° $\Omega$ 11'02  |            |
| superior conj       | -3210 Apr 12 j 04:28 | 25° $\chi$ 18'23    | -0°48'15   | direct              | -3208 Sep 20 j 18:02 | 4° $\Omega$ 21'47   |            |
| minimum elong       | -3210 Apr 12 j 12:33 | 25° $\chi$ 43'11    | 0°47'57    | greatest brilliancy | -3208 Oct 01 j 16:21 | 6° $\Omega$ 36'24   | -4.9m      |
|                     | -3210 Apr 16 j 00:16 | 0° $\Psi$           |            | asc. node           | -3208 Oct 18 j 20:31 | 17° $\Omega$ 03'22  |            |
| asc. node           | -3210 May 04 j 01:50 | 22° $\Psi$ 10'55    |            |                     | -3208 Nov 02 j 13:20 | 0° $\Pi$            |            |
|                     | -3210 May 10 j 10:35 | 0° $\chi$           |            | morning max el      | -3208 Nov 10 j 13:55 | 7° $\Pi$ 58'35      | 46°52'57   |
| evening rise        | -3210 May 18 j 03:23 | 9° $\chi$ 27'51     |            |                     | -3208 Dec 01 j 00:05 | 0° $\Omega$         |            |
|                     | -3210 Jun 03 j 20:02 | 0° $\Pi$            |            |                     | -3208 Dec 27 j 01:45 | 0° $\Pi$            |            |
|                     | -3210 Jun 28 j 04:59 | 0° $\Xi$            |            |                     | -3207 Jan 21 j 09:52 | 0° $\chi$           |            |
|                     | -3210 Jul 22 j 14:40 | 0° $\Omega$         |            | desc. node          | -3207 Feb 07 j 15:50 | 20° $\chi$ 37'26    |            |
|                     | -3210 Aug 16 j 03:08 | 0° $\Pi$            |            |                     | -3207 Feb 15 j 11:20 | 0° $\Xi$            |            |
| desc. node          | -3210 Aug 23 j 19:35 | 9° $\Pi$ 21'20      |            |                     | -3207 Mar 12 j 09:17 | 0° $\approx$        |            |
|                     | -3210 Sep 09 j 21:10 | 0° $\Omega$         |            |                     | -3207 Apr 06 j 04:11 | 0° $\chi$           |            |
|                     | -3210 Oct 05 j 01:44 | 0° $\Pi$            |            |                     | -3207 Apr 30 j 19:45 | 0° $\Psi$           |            |
|                     | -3210 Oct 31 j 05:29 | 0° $\chi$           |            | morning set         | -3207 May 12 j 23:15 | 14° $\Psi$ 51'06    |            |
| evening max el      | -3210 Nov 17 j 15:34 | 18° $\chi$ 39'13    | 47°10'57   |                     | -3207 May 25 j 07:28 | 0° $\chi$           |            |
|                     | -3210 Nov 29 j 05:54 | 0° $\Xi$            |            | asc. node           | -3207 May 31 j 14:01 | 7° $\chi$ 43'10     |            |
| asc. node           | -3210 Dec 14 j 17:50 | 12° $\Xi$ 50'11     |            | max. Earth dist.    | -3207 Jun 13 j 23:10 | 24° $\chi$ 14'06    | 1.72991 AU |
| greatest brilliancy | -3210 Dec 27 j 17:26 | 20° $\Xi$ 09'53     | -4.9m      |                     |                      |                     |            |
| retrograde          | -3209 Jan 07 j 12:51 | 22° $\Xi$ 23'02     |            | superior conj       | -3207 Jun 17 j 23:03 | 29° $\chi$ 10'45    | 0°39'24    |
| evening set         | -3209 Jan 24 j 18:27 | 16° $\Xi$ 31'36     |            | minimum elong       | -3207 Jun 17 j 16:01 | 28° $\chi$ 48'58    | 0°39'11    |
| min. Earth dist.    | -3209 Jan 27 j 21:33 | 14° $\Xi$ 33'31     | 0.28462 AU |                     | -3207 Jun 18 j 14:57 | 0° $\Pi$            |            |
| inferior conj       | -3209 Jan 28 j 16:45 | 14° $\Xi$ 02'46     | 8°06'04    |                     | -3207 Jul 12 j 18:37 | 0° $\Xi$            |            |
| minimum elong       | -3209 Jan 28 j 11:47 | 14° $\Xi$ 10'43     | 8°05'33    | evening rise        | -3207 Jul 24 j 01:36 | 14° $\Xi$ 04'38     |            |
| morning rise        | -3209 Feb 01 j 05:29 | 11° $\Xi$ 49'19     |            |                     | -3207 Aug 05 j 19:46 | 0° $\Omega$         |            |
| direct              | -3209 Feb 18 j 19:25 | 5° $\Xi$ 53'04      |            |                     | -3207 Aug 29 j 20:23 | 0° $\Pi$            |            |
| greatest brilliancy | -3209 Feb 27 j 16:19 | 7° $\Xi$ 20'16      | -4.8m      | desc. node          | -3207 Sep 20 j 07:41 | 26° $\Pi$ 45'03     |            |
|                     | -3209 Apr 02 j 08:29 | 0° $\approx$        |            |                     | -3207 Sep 22 j 22:25 | 0° $\Omega$         |            |
| desc. node          | -3209 Apr 05 j 12:53 | 2° $\approx$ 55'25  |            |                     | -3207 Oct 17 j 03:35 | 0° $\Pi$            |            |
| morning max el      | -3209 Apr 08 j 14:12 | 5° $\approx$ 48'11  | 45°50'58   |                     | -3207 Nov 10 j 14:16 | 0° $\chi$           |            |
|                     | -3209 May 02 j 08:37 | 0° $\chi$           |            |                     | -3207 Dec 05 j 11:36 | 0° $\Xi$            |            |
|                     | -3209 May 29 j 10:20 | 0° $\Psi$           |            |                     | -3207 Dec 31 j 08:02 | 0° $\approx$        |            |
|                     | -3209 Jun 24 j 05:22 | 0° $\chi$           |            | asc. node           | -3206 Jan 11 j 05:36 | 12° $\approx$ 02'12 |            |
|                     | -3209 Jul 19 j 05:03 | 0° $\Pi$            |            | evening max el      | -3206 Jan 27 j 12:36 | 28° $\approx$ 56'07 | 45°47'38   |
| asc. node           | -3209 Jul 27 j 11:53 | 10° $\Pi$ 06'44     |            |                     | -3206 Jan 28 j 14:40 | 0° $\chi$           |            |
|                     | -3209 Aug 12 j 14:52 | 0° $\Xi$            |            | greatest brilliancy | -3206 Mar 06 j 19:04 | 27° $\chi$ 33'41    | -4.7m      |
|                     | -3209 Sep 05 j 15:16 | 0° $\Omega$         |            | retrograde          | -3206 Mar 17 j 14:34 | 29° $\chi$ 41'30    |            |
| greatest brilliancy | -3209 Sep 13 j 20:07 | 10° $\Omega$ 19'03  | -3.9m      | evening set         | -3206 Apr 02 j 22:54 | 24° $\chi$ 32'09    |            |
|                     | -3209 Sep 29 j 10:43 | 0° $\Pi$            |            | inferior conj       | -3206 Apr 08 j 01:25 | 21° $\chi$ 24'29    | 5°16'33    |
| morning set         | -3209 Oct 03 j 22:51 | 5° $\Pi$ 41'23      |            | minimum elong       | -3206 Apr 08 j 10:17 | 21° $\chi$ 10'29    | 5°14'36    |
|                     | -3209 Oct 23 j 05:03 | 0° $\Omega$         |            | min. Earth dist.    | -3206 Apr 08 j 14:11 | 21° $\chi$ 04'21    | 0.29253 AU |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |  |                     |                      |  |
|---------------------|----------------------|--|---------------------|----------------------|--|
| morning rise        | -3206 Apr 13 j 21:33 | 17°  50'57              | evening rise        | -3204 Oct 05 j 15:17 | 28°  06'30              |
| direct              | -3206 Apr 29 j 19:30 | 12°  59'01              |                     | -3204 Oct 07 j 03:23 | 0°                      |
| desc. node          | -3206 May 03 j 00:20 | 13°  10'44              | desc. node          | -3204 Oct 17 j 19:55 | 13°  25'43              |
| greatest brilliancy | -3206 May 10 j 08:24 | 14°  58'30 -4.7m        |                     | -3204 Oct 31 j 01:15 | 0°                      |
|                     | -3206 Jun 03 j 08:44 | 0°                      |                     | -3204 Nov 24 j 02:02 | 0°                      |
| morning max el      | -3206 Jun 17 j 20:55 | 13°  00'55 45°56'15     |                     | -3204 Dec 18 j 07:16 | 0°                      |
|                     | -3206 Jul 04 j 15:23 | 0°                      |                     | -3203 Jan 11 j 20:02 | 0°                      |
|                     | -3206 Jul 31 j 16:24 | 0°                      |                     | -3203 Feb 05 j 22:10 | 0°                      |
| asc. node           | -3206 Aug 23 j 23:39 | 27°  28'06              | asc. node           | -3203 Feb 07 j 17:32 | 2°  07'30               |
|                     | -3206 Aug 26 j 02:07 | 0°                      |                     | -3203 Mar 04 j 00:18 | 0°                      |
|                     | -3206 Sep 19 j 14:44 | 0°                      |                     | -3203 Apr 01 j 04:06 | 0°                      |
|                     | -3206 Oct 13 j 16:21 | 0°                      | evening max el      | -3203 Apr 08 j 09:13 | 7°  02'27 45°09'15      |
|                     | -3206 Nov 06 j 13:57 | 0°                      |                     | -3203 May 07 j 05:01 | 0°                      |
|                     | -3206 Nov 30 j 11:55 | 0°                      | greatest brilliancy | -3203 May 16 j 03:27 | 4°  14'02 -4.7m         |
| desc. node          | -3206 Dec 13 j 18:07 | 16°  13'45'56           | retrograde          | -3203 May 26 j 14:40 | 6°  10'43               |
| morning set         | -3206 Dec 20 j 06:15 | 24°  14'20'08           | desc. node          | -3203 May 30 j 12:11 | 5°  15'30'09            |
|                     | -3206 Dec 24 j 12:13 | 0°                      | evening set         | -3203 Jun 10 j 16:10 | 1°  15'41'18            |
|                     | -3205 Jan 17 j 15:15 | 0°                      |                     | -3203 Jun 14 j 00:36 | 30°                     |
| superior conj       | -3205 Jan 30 j 03:57 | 15°  31'35 -1°21'21     | inferior conj       | -3203 Jun 16 j 22:28 | 28°  13'46 -3°57'25     |
| minimum elong       | -3205 Jan 29 j 22:47 | 15°  15'36 1°21'24      | minimum elong       | -3203 Jun 16 j 14:25 | 28°  26'08 3°55'12      |
| max. Earth dist.    | -3205 Feb 02 j 09:09 | 19°  30'26 1.72737 AU   | min. Earth dist.    | -3203 Jun 17 j 07:30 | 27°  59'53 0.28398 AU   |
|                     | -3205 Feb 10 j 20:53 | 0°                      | morning rise        | -3203 Jun 22 j 12:04 | 24°  54'25              |
|                     | -3205 Mar 07 j 05:10 | 0°                      | direct              | -3203 Jul 08 j 12:04 | 20°  04'24              |
| evening rise        | -3205 Mar 09 j 13:14 | 2°  52'16               | greatest brilliancy | -3203 Jul 19 j 12:25 | 22°  15'36 -4.8m        |
| greatest brilliancy | -3205 Mar 11 j 03:14 | 4°  48'57 -3.9m         |                     | -3203 Aug 02 j 10:52 | 0°                      |
|                     | -3205 Mar 31 j 16:27 | 0°                      | morning max el      | -3203 Aug 27 j 10:45 | 21°  45'24 46°32'32     |
| asc. node           | -3205 Apr 05 j 15:44 | 6°  04'27               |                     | -3203 Sep 04 j 11:44 | 0°                      |
|                     | -3205 Apr 25 j 07:07 | 0°                      | asc. node           | -3203 Sep 20 j 11:12 | 17°  26'31              |
|                     | -3205 May 20 j 01:49 | 0°                     |                     | -3203 Oct 01 j 10:07 | 0°                     |
|                     | -3205 Jun 14 j 02:07 | 0°                    |                     | -3203 Oct 26 j 14:47 | 0°                    |
|                     | -3205 Jul 09 j 11:40 | 0°                    |                     | -3203 Nov 20 j 03:18 | 0°                    |
| desc. node          | -3205 Jul 26 j 09:33 | 19°  33'16            |                     | -3203 Dec 14 j 10:51 | 0°                    |
|                     | -3205 Aug 04 j 14:41 | 0°                    |                     | -3202 Jan 07 j 18:20 | 0°                    |
|                     | -3205 Sep 01 j 09:53 | 0°                    | desc. node          | -3202 Jan 10 j 06:04 | 3°  04'00             |
| evening max el      | -3205 Sep 04 j 15:00 | 3°  14'50 47°23'24    |                     | -3202 Feb 01 j 03:14 | 0°                    |
|                     | -3205 Oct 06 j 08:35 | 0°                    |                     | -3202 Feb 25 j 13:21 | 0°                    |
| greatest brilliancy | -3205 Oct 15 j 11:59 | 4°  12'27'54 -4.9m    | morning set         | -3202 Mar 04 j 02:11 | 8°  01'18             |
| retrograde          | -3205 Oct 25 j 08:30 | 6°  19'04             |                     | -3202 Mar 22 j 00:06 | 0°                    |
| evening set         | -3205 Nov 08 j 19:31 | 2°  05'32             | superior conj       | -3202 Apr 09 j 22:44 | 23°  14'30 -0°50'46   |
|                     | -3205 Nov 12 j 10:17 | 30°  05'16            | minimum elong       | -3202 Apr 10 j 07:02 | 23°  39'58 0°50'27    |
| inferior conj       | -3205 Nov 14 j 21:30 | 28°  29'20 -0°22'18   | max. Earth dist.    | -3202 Apr 09 j 09:11 | 22°  32'57 1.73714 AU |
| minimum elong       | -3205 Nov 14 j 22:20 | 28°  28'03 0°22'04    |                     | -3202 Apr 15 j 10:55 | 0°                    |
| min. Earth dist.    | -3205 Nov 14 j 08:51 | 28°  48'48 0.26472 AU | asc. node           | -3202 May 03 j 04:01 | 21°  04'45'51         |
| asc. node           | -3205 Nov 16 j 08:11 | 27°  36'10            |                     | -3202 May 09 j 21:16 | 0°                    |
| morning rise        | -3205 Nov 21 j 01:47 | 24°  52'14            | evening rise        | -3202 May 15 j 22:43 | 7°  26'46             |
| direct              | -3205 Dec 05 j 04:09 | 20°  52'35            |                     | -3202 Jun 03 j 06:54 | 0°                    |
| greatest brilliancy | -3205 Dec 14 j 17:44 | 22°  37'59 -4.9m      |                     | -3202 Jun 27 j 16:10 | 0°                    |
|                     | -3205 Dec 28 j 11:57 | 0°                    |                     | -3202 Jul 22 j 02:18 | 0°                    |
| morning max el      | -3204 Jan 24 j 01:13 | 22°  55'40 46°24'44   |                     | -3202 Aug 15 j 15:21 | 0°                    |
|                     | -3204 Jan 31 j 01:56 | 0°                    |                     | -3202 Aug 22 j 21:36 | 8°  09'40             |
|                     | -3204 Feb 27 j 22:34 | 0°                    | desc. node          | -3202 Sep 09 j 10:14 | 0°                    |
| desc. node          | -3204 Mar 07 j 03:32 | 9°  31'25'56          |                     | -3202 Oct 04 j 16:14 | 0°                    |
|                     | -3204 Mar 25 j 07:31 | 0°                    |                     | -3202 Oct 30 j 23:00 | 0°                    |
|                     | -3204 Apr 19 j 23:24 | 0°                    | evening max el      | -3202 Nov 15 j 05:45 | 16°  07'31 47°13'08   |
|                     | -3204 May 15 j 04:00 | 0°                    |                     | -3202 Nov 29 j 09:45 | 0°                    |
|                     | -3204 Jun 08 j 23:15 | 0°                    | asc. node           | -3202 Dec 13 j 19:57 | 11°  33'21            |
| asc. node           | -3204 Jun 28 j 02:04 | 23°  25'34            | greatest brilliancy | -3202 Dec 25 j 10:22 | 17°  55'18 -4.9m      |
|                     | -3204 Jul 03 j 09:58 | 0°                    | retrograde          | -3201 Jan 05 j 04:39 | 20°  30'04            |
| morning set         | -3204 Jul 19 j 17:50 | 20°  15'25            | evening set         | -3201 Jan 22 j 07:57 | 14°  30'40            |
|                     | -3204 Jul 27 j 13:20 | 0°                    | min. Earth dist.    | -3201 Jan 25 j 12:51 | 12°  30'06 0.28398 AU |
|                     | -3204 Aug 20 j 11:33 | 0°                    | inferior conj       | -3201 Jan 26 j 08:40 | 11°  34'25 8°00'42    |
| max. Earth dist.    | -3204 Aug 23 j 21:06 | 4°  16'26 1.71304 AU  | minimum elong       | -3201 Jan 26 j 03:04 | 11°  57'22 8°00'05    |
|                     |                      |  | morning rise        | -3201 Jan 29 j 22:32 | 9°  33'17             |
| superior conj       | -3204 Aug 26 j 10:21 | 7°  29'06 1°23'42     | direct              | -3201 Feb 16 j 09:56 | 3°  39'37             |
| minimum elong       | -3204 Aug 26 j 12:28 | 7°  35'47 1°23'47     | greatest brilliancy | -3201 Feb 25 j 07:29 | 5°  07'11 -4.8m       |
|                     | -3204 Sep 13 j 07:23 | 0°                    |                     | -3201 Apr 02 j 09:24 | 0°                    |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| desc. node          | -3201 Apr 04 j 14:58 | 2°≈05'02  |            |                     | -3199 Sep 22 j 10:02 | 0°♎       |            |
| morning max el      | -3201 Apr 06 j 04:55 | 3°≈34'59  | 45°51'37   |                     | -3199 Oct 16 j 15:37 | 0°♍       |            |
|                     | -3201 May 02 j 00:55 | 0°♋       |            |                     | -3199 Nov 10 j 02:51 | 0°♊       |            |
|                     | -3201 May 28 j 23:50 | 0°♍       |            |                     | -3199 Dec 05 j 01:09 | 0°♎       |            |
|                     | -3201 Jun 23 j 17:34 | 0°♋       |            |                     | -3199 Dec 30 j 23:43 | 0°≈       |            |
|                     | -3201 Jul 18 j 16:36 | 0°♊       |            |                     | -3198 Jan 10 j 07:41 | 11°≈21'08 |            |
| asc. node           | -3201 Jul 26 j 13:54 | 9°♊37'57  |            | asc. node           | -3198 Jan 25 j 05:01 | 26°≈45'40 | 45°50'20   |
|                     | -3201 Aug 12 j 02:06 | 0°♎       |            | evening max el      | -3198 Jan 28 j 12:56 | 0°♋       |            |
|                     | -3201 Sep 05 j 02:22 | 0°♎       |            | greatest brilliancy | -3198 Mar 04 j 11:38 | 25°♋26'40 | -4.7m      |
| greatest brilliancy | -3201 Sep 13 j 23:56 | 11°♎11'51 | -3.9m      | retrograde          | -3198 Mar 15 j 07:57 | 27°♋34'57 |            |
|                     | -3201 Sep 28 j 21:44 | 0°♍       |            | evening set         | -3198 Mar 31 j 18:21 | 22°♋21'49 |            |
| morning set         | -3201 Oct 01 j 10:25 | 3°♍11'33  |            | inferior conj       | -3198 Apr 05 j 18:23 | 19°♋17'17 | 5°30'55    |
|                     | -3201 Oct 22 j 16:03 | 0°♎       |            | minimum elong       | -3198 Apr 06 j 03:22 | 19°♋03'05 | 5°28'59    |
|                     |                      |           |            | min. Earth dist.    | -3198 Apr 06 j 06:12 | 18°♋58'38 | 0.29264 AU |
| superior conj       | -3201 Nov 11 j 19:36 | 25°♎22'43 | 0°08'16    | morning rise        | -3198 Apr 11 j 12:22 | 15°♋46'45 |            |
| minimum elong       | -3201 Nov 11 j 21:51 | 25°♎29'49 | 0°08'07    | direct              | -3198 Apr 27 j 12:57 | 10°♋51'51 |            |
| behind sun begin    | -3201 Nov 10 j 22:02 | 24°♎14'56 |            | desc. node          | -3198 May 02 j 02:35 | 11°♋15'32 |            |
| behind sun end      | -3201 Nov 12 j 21:40 | 26°♎44'40 |            | greatest brilliancy | -3198 May 07 j 23:23 | 12°♋49'33 | -4.7m      |
| desc. node          | -3201 Nov 15 j 08:10 | 29°♎48'29 |            |                     | -3198 Jun 03 j 14:25 | 0°♍       |            |
|                     | -3201 Nov 15 j 11:50 | 0°♍       |            | morning max el      | -3198 Jun 15 j 13:49 | 10°♍53'20 | 45°55'16   |
| max. Earth dist.    | -3201 Nov 15 j 20:12 | 0°♍26'16  | 1.71131 AU |                     | -3198 Jul 04 j 08:43 | 0°♋       |            |
|                     | -3201 Dec 09 j 10:19 | 0°♊       |            |                     | -3198 Jul 31 j 06:30 | 0°♊       |            |
| evening rise        | -3201 Dec 23 j 23:54 | 18°♊10'31 |            | asc. node           | -3198 Aug 23 j 01:44 | 26°♊55'54 |            |
|                     | -3200 Jan 02 j 12:00 | 0°♎       |            |                     | -3198 Aug 25 j 14:49 | 0°♎       |            |
|                     | -3200 Jan 26 j 17:38 | 0°≈       |            |                     | -3198 Sep 19 j 02:45 | 0°♎       |            |
|                     | -3200 Feb 20 j 04:52 | 0°♋       |            |                     | -3198 Oct 13 j 04:00 | 0°♍       |            |
| asc. node           | -3200 Mar 07 j 05:39 | 19°♋26'46 |            |                     | -3198 Nov 06 j 01:24 | 0°♎       |            |
|                     | -3200 Mar 16 j 00:12 | 0°♍       |            |                     | -3198 Nov 29 j 23:13 | 0°♍       |            |
|                     | -3200 Apr 10 j 07:11 | 0°♋       |            | desc. node          | -3198 Dec 12 j 20:08 | 16°♍06'14 |            |
|                     | -3200 May 06 j 07:53 | 0°♊       |            | morning set         | -3198 Dec 17 j 16:22 | 22°♍09'05 |            |
|                     | -3200 Jun 02 j 17:27 | 0°♎       |            |                     | -3198 Dec 23 j 23:23 | 0°♊       |            |
| evening max el      | -3200 Jun 19 j 08:13 | 16°♎47'16 | 45°59'23   |                     | -3197 Jan 17 j 02:17 | 0°♎       |            |
| desc. node          | -3200 Jun 26 j 23:51 | 23°♎55'50 |            |                     |                      |           |            |
|                     | -3200 Jul 03 j 23:33 | 0°♎       |            | superior conj       | -3197 Jan 27 j 17:21 | 13°♎10'29 | -1°20'23   |
| greatest brilliancy | -3200 Jul 29 j 16:07 | 15°♎51'36 | -4.8m      | minimum elong       | -3197 Jan 27 j 11:23 | 12°♎52'01 | 1°20'25    |
| retrograde          | -3200 Aug 07 j 18:59 | 17°♎23'25 |            | max. Earth dist.    | -3197 Jan 31 j 03:19 | 17°♎24'13 | 1.72681 AU |
| evening set         | -3200 Aug 25 j 17:55 | 11°♎24'24 |            |                     | -3197 Feb 10 j 07:48 | 0°≈       |            |
| inferior conj       | -3200 Aug 28 j 14:40 | 9°♎41'40  | -8°51'51   |                     | -3197 Mar 06 j 16:04 | 0°♋       |            |
| minimum elong       | -3200 Aug 28 j 17:50 | 9°♎36'54  | 8°51'37    | evening rise        | -3197 Mar 07 j 05:40 | 0°♋41'48  |            |
| min. Earth dist.    | -3200 Aug 29 j 03:14 | 9°♎22'43  | 0.27110 AU | greatest brilliancy | -3197 Mar 09 j 12:08 | 3°♋29'08  | -3.9m      |
| morning rise        | -3200 Aug 31 j 17:35 | 7°♎49'34  |            |                     | -3197 Mar 31 j 03:27 | 0°♍       |            |
| direct              | -3200 Sep 18 j 07:48 | 1°♎55'37  |            | asc. node           | -3197 Apr 04 j 17:58 | 5°♍37'36  |            |
| greatest brilliancy | -3200 Sep 29 j 05:58 | 4°♎10'36  | -4.9m      |                     | -3197 Apr 24 j 18:23 | 0°♋       |            |
| asc. node           | -3200 Oct 17 j 22:45 | 15°♎49'49 |            |                     | -3197 May 19 j 13:36 | 0°♊       |            |
|                     | -3200 Nov 02 j 15:03 | 0°♍       |            |                     | -3197 Jun 13 j 14:43 | 0°♎       |            |
| morning max el      | -3200 Nov 08 j 04:28 | 5°♍34'56  | 46°53'16   |                     | -3197 Jul 09 j 01:39 | 0°♎       |            |
|                     | -3200 Nov 30 j 17:20 | 0°♎       |            | desc. node          | -3197 Jul 25 j 11:34 | 18°♎55'01 |            |
|                     | -3200 Dec 26 j 16:07 | 0°♍       |            |                     | -3197 Aug 04 j 07:13 | 0°♍       |            |
|                     | -3199 Jan 20 j 22:46 | 0°♊       |            |                     | -3197 Sep 01 j 08:42 | 0°♎       |            |
| desc. node          | -3199 Feb 06 j 17:52 | 20°♊06'52 |            | evening max el      | -3197 Sep 02 j 05:24 | 0°♎51'51  | 47°21'35   |
|                     | -3199 Feb 14 j 23:21 | 0°♎       |            |                     | -3197 Oct 08 j 09:55 | 0°♍       |            |
|                     | -3199 Mar 11 j 20:42 | 0°≈       |            | greatest brilliancy | -3197 Oct 13 j 02:06 | 1°♍59'36  | -4.9m      |
|                     | -3199 Apr 05 j 15:13 | 0°♋       |            | retrograde          | -3197 Oct 22 j 21:06 | 3°♍48'57  |            |
|                     | -3199 Apr 30 j 06:34 | 0°♍       |            |                     | -3197 Nov 05 j 14:34 | 30°♋♎     |            |
| morning set         | -3199 May 10 j 18:13 | 12°♍49'16 |            | evening set         | -3197 Nov 06 j 09:15 | 29°♎35'00 |            |
|                     | -3199 May 24 j 18:11 | 0°♋       |            | inferior conj       | -3197 Nov 12 j 10:00 | 26°♎00'25 | -0°46'33   |
| asc. node           | -3199 May 30 j 16:11 | 7°♋16'53  |            | minimum elong       | -3197 Nov 12 j 11:45 | 25°♎57'44 | 0°46'01    |
| max. Earth dist.    | -3199 Jun 11 j 20:20 | 22°♋18'03 | 1.73039 AU | min. Earth dist.    | -3197 Nov 11 j 22:44 | 26°♎17'47 | 0.26441 AU |
|                     |                      |           |            | asc. node           | -3197 Nov 15 j 10:21 | 24°♎10'30 |            |
| superior conj       | -3199 Jun 15 j 17:27 | 27°♋05'57 | 0°36'37    | morning rise        | -3197 Nov 18 j 14:51 | 22°♎22'33 |            |
| minimum elong       | -3199 Jun 15 j 10:48 | 26°♋45'24 | 0°36'24    | direct              | -3197 Dec 02 j 16:42 | 18°♎24'29 |            |
|                     | -3199 Jun 18 j 01:41 | 0°♊       |            | greatest brilliancy | -3197 Dec 12 j 07:26 | 20°♎10'45 | -4.9m      |
|                     | -3199 Jul 12 j 05:26 | 0°♎       |            |                     | -3197 Dec 29 j 10:22 | 0°♍       |            |
| evening rise        | -3199 Jul 21 j 18:26 | 11°♎53'29 |            | morning max el      | -3196 Jan 21 j 14:03 | 20°♍31'11 | 46°26'03   |
|                     | -3199 Aug 05 j 06:46 | 0°♎       |            |                     | -3196 Jan 30 j 22:30 | 0°♊       |            |
|                     | -3199 Aug 29 j 07:39 | 0°♍       |            |                     | -3196 Feb 27 j 14:05 | 0°♎       |            |
| desc. node          | -3199 Sep 19 j 09:47 | 26°♍15'35 |            | desc. node          | -3196 Mar 06 j 05:36 | 8°♎37'06  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3196 Mar 24 j 20:53 | 0°♊       |            |                     | -3194 Oct 30 j 17:28 | 0°♊       |            |
|                     | -3196 Apr 19 j 11:39 | 0°♋       |            | evening max el      | -3194 Nov 12 j 20:14 | 13°♊55'00 | 47°15'24   |
|                     | -3196 May 14 j 15:36 | 0°♌       |            |                     | -3194 Nov 29 j 16:14 | 0°♋       |            |
|                     | -3196 Jun 08 j 10:29 | 0°♍       |            | asc. node           | -3194 Dec 12 j 22:01 | 10°♋12'26 |            |
| asc. node           | -3196 Jun 27 j 04:06 | 22°♍57'44 |            | greatest brilliancy | -3194 Dec 23 j 02:38 | 15°♋38'03 | -4.9m      |
|                     | -3196 Jul 02 j 21:02 | 0°♎       |            | retrograde          | -3193 Jan 02 j 20:43 | 17°♋51'15 |            |
| morning set         | -3196 Jul 17 j 10:13 | 18°♎02'39 |            | evening set         | -3193 Jan 19 j 21:04 | 12°♌07'54 |            |
|                     | -3196 Jul 27 j 00:23 | 0°♏       |            | min. Earth dist.    | -3193 Jan 23 j 03:40 | 10°♌05'08 | 0.28330 AU |
|                     | -3196 Aug 19 j 22:39 | 0°♐       |            | inferior conj       | -3193 Jan 24 j 00:23 | 9°♌32'05  | 7°54'29    |
| max. Earth dist.    | -3196 Aug 21 j 04:24 | 1°♐33'32  | 1.71355 AU | minimum elong       | -3193 Jan 23 j 18:11 | 9°♌41'58  | 7°53'45    |
|                     |                      |           |            | morning rise        | -3193 Jan 27 j 15:39 | 7°♍15'04  |            |
| superior conj       | -3196 Aug 24 j 00:27 | 5°♏07'32  | 1°24'00    | direct              | -3193 Feb 14 j 00:22 | 1°♍24'11  |            |
| minimum elong       | -3196 Aug 24 j 01:42 | 5°♏11'28  | 1°24'04    | greatest brilliancy | -3193 Feb 22 j 22:06 | 2°♍52'02  | -4.8m      |
|                     | -3196 Sep 12 j 18:35 | 0°♎       |            |                     | -3193 Apr 02 j 09:39 | 0°♎       |            |
| evening rise        | -3196 Oct 03 j 00:58 | 25°♎30'29 |            | desc. node          | -3193 Apr 03 j 17:14 | 1°♎14'53  |            |
|                     | -3196 Oct 06 j 14:42 | 0°♏       |            | morning max el      | -3193 Apr 03 j 20:18 | 1°♎22'10  | 45°52'18   |
| desc. node          | -3196 Oct 16 j 22:07 | 12°♏56'57 |            |                     | -3193 May 01 j 17:20 | 0°♋       |            |
|                     | -3196 Oct 30 j 12:41 | 0°♌       |            |                     | -3193 May 28 j 13:36 | 0°♌       |            |
|                     | -3196 Nov 23 j 13:37 | 0°♍       |            |                     | -3193 Jun 23 j 06:05 | 0°♍       |            |
|                     | -3196 Dec 17 j 19:07 | 0°♎       |            |                     | -3193 Jul 18 j 04:28 | 0°♎       |            |
|                     | -3195 Jan 11 j 08:21 | 0°♏       |            | asc. node           | -3193 Jul 25 j 16:04 | 9°♎08'36  |            |
|                     | -3195 Feb 05 j 11:23 | 0°♋       |            |                     | -3193 Aug 11 j 13:38 | 0°♏       |            |
| asc. node           | -3195 Feb 06 j 19:37 | 1°♋34'37  |            |                     | -3193 Sep 04 j 13:45 | 0°♐       |            |
|                     | -3195 Mar 03 j 15:28 | 0°♌       |            | greatest brilliancy | -3193 Sep 13 j 19:20 | 11°♐37'08 | -3.9m      |
|                     | -3195 Apr 01 j 00:40 | 0°♍       |            |                     | -3193 Sep 28 j 09:05 | 0°♎       |            |
| evening max el      | -3195 Apr 05 j 23:33 | 4°♍48'02  | 45°09'08   | morning set         | -3193 Sep 28 j 22:09 | 0°♎41'14  |            |
|                     | -3195 May 08 j 23:07 | 0°♎       |            |                     | -3193 Oct 22 j 03:24 | 0°♏       |            |
| greatest brilliancy | -3195 May 13 j 18:12 | 2°♎01'50  | -4.7m      |                     |                      |           |            |
| retrograde          | -3195 May 24 j 05:26 | 3°♎59'00  |            | superior conj       | -3193 Nov 09 j 04:20 | 22°♎43'29 | 0°12'17    |
| desc. node          | -3195 May 29 j 14:14 | 3°♎25'29  |            | minimum elong       | -3193 Nov 09 j 07:41 | 22°♎53'59 | 0°12'05    |
|                     | -3195 Jun 07 j 17:43 | 30°♏8     |            | behind sun begin    | -3193 Nov 08 j 13:09 | 21°♎55'41 |            |
| evening set         | -3195 Jun 08 j 06:08 | 29°♏43'40 |            | behind sun end      | -3193 Nov 10 j 02:13 | 23°♎52'17 |            |
| inferior conj       | -3195 Jun 14 j 13:51 | 26°♏01'24 | -3°38'44   | max. Earth dist.    | -3193 Nov 13 j 01:03 | 27°♎34'57 | 1.71100 AU |
| minimum elong       | -3195 Jun 14 j 06:19 | 26°♏12'59 | 3°36'37    | desc. node          | -3193 Nov 14 j 10:12 | 29°♎19'06 |            |
| min. Earth dist.    | -3195 Jun 14 j 23:31 | 25°♏46'32 | 0.28438 AU |                     | -3193 Nov 14 j 23:13 | 0°♌       |            |
| morning rise        | -3195 Jun 20 j 05:49 | 22°♏38'32 |            |                     | -3193 Dec 08 j 21:43 | 0°♍       |            |
| direct              | -3195 Jul 06 j 03:16 | 17°♏51'03 |            | evening rise        | -3193 Dec 21 j 10:20 | 15°♍38'07 |            |
| greatest brilliancy | -3195 Jul 17 j 05:01 | 20°♏03'00 | -4.8m      |                     | -3192 Jan 01 j 23:23 | 0°♎       |            |
|                     | -3195 Aug 03 j 04:25 | 0°♎       |            |                     | -3192 Jan 26 j 05:05 | 0°♏       |            |
| morning max el      | -3195 Aug 25 j 00:48 | 19°♎24'56 | 46°31'12   |                     | -3192 Feb 19 j 16:31 | 0°♋       |            |
|                     | -3195 Sep 04 j 07:17 | 0°♏       |            | asc. node           | -3192 Mar 06 j 07:53 | 18°♋57'30 |            |
| asc. node           | -3195 Sep 19 j 13:28 | 16°♏45'57 |            |                     | -3192 Mar 15 j 12:21 | 0°♌       |            |
|                     | -3195 Oct 01 j 01:27 | 0°♐       |            |                     | -3192 Apr 09 j 20:16 | 0°♍       |            |
|                     | -3195 Oct 26 j 04:25 | 0°♎       |            |                     | -3192 May 05 j 22:47 | 0°♎       |            |
|                     | -3195 Nov 19 j 16:03 | 0°♏       |            |                     | -3192 Jun 02 j 12:28 | 0°♏       |            |
|                     | -3195 Dec 13 j 23:01 | 0°♌       |            | evening max el      | -3192 Jun 16 j 22:27 | 14°♏28'37 | 45°56'38   |
|                     | -3194 Jan 07 j 06:05 | 0°♍       |            | desc. node          | -3192 Jun 26 j 01:57 | 22°♏56'39 |            |
| desc. node          | -3194 Jan 09 j 08:08 | 2°♍34'15  |            |                     | -3192 Jul 04 j 10:43 | 0°♐       |            |
|                     | -3194 Jan 31 j 14:40 | 0°♎       |            | greatest brilliancy | -3192 Jul 27 j 02:40 | 13°♐25'14 | -4.8m      |
|                     | -3194 Feb 25 j 00:34 | 0°♏       |            | retrograde          | -3192 Aug 05 j 07:54 | 14°♐58'30 |            |
| morning set         | -3194 Mar 01 j 18:06 | 5°♏48'33  |            | evening set         | -3192 Aug 23 j 06:51 | 8°♐58'43  |            |
|                     | -3194 Mar 21 j 11:10 | 0°♋       |            | inferior conj       | -3192 Aug 26 j 03:23 | 7°♐16'11  | -8°54'09   |
| max. Earth dist.    | -3194 Apr 07 j 04:37 | 20°♋31'37 | 1.73705 AU | minimum elong       | -3192 Aug 26 j 05:38 | 7°♐12'48  | 8°54'00    |
|                     |                      |           |            | min. Earth dist.    | -3192 Aug 26 j 15:13 | 6°♐58'18  | 0.27159 AU |
| superior conj       | -3194 Apr 07 j 17:01 | 21°♋09'39 | -0°53'12   | morning rise        | -3192 Aug 29 j 04:18 | 5°♐27'04  |            |
| minimum elong       | -3194 Apr 08 j 01:31 | 21°♋35'42 | 0°52'54    |                     | -3192 Sep 10 j 22:40 | 30°♏5     |            |
|                     | -3194 Apr 14 j 21:55 | 0°♌       |            | direct              | -3192 Sep 15 j 21:55 | 29°♏29'34 |            |
| asc. node           | -3194 May 02 j 06:10 | 21°♌17'41 |            |                     | -3192 Sep 20 j 23:30 | 0°♐       |            |
|                     | -3194 May 09 j 08:18 | 0°♍       |            | greatest brilliancy | -3192 Sep 26 j 18:55 | 1°♐43'44  | -4.9m      |
| evening rise        | -3194 May 13 j 18:11 | 5°♍25'11  |            | asc. node           | -3192 Oct 17 j 00:56 | 14°♐37'49 |            |
|                     | -3194 Jun 02 j 18:05 | 0°♎       |            |                     | -3192 Nov 02 j 15:48 | 0°♎       |            |
|                     | -3194 Jun 27 j 03:39 | 0°♏       |            | morning max el      | -3192 Nov 05 j 18:54 | 3°♎10'19  | 46°53'16   |
|                     | -3194 Jul 21 j 14:16 | 0°♐       |            |                     | -3192 Nov 30 j 10:36 | 0°♏       |            |
|                     | -3194 Aug 15 j 03:58 | 0°♎       |            |                     | -3192 Dec 26 j 06:44 | 0°♌       |            |
| desc. node          | -3194 Aug 21 j 23:43 | 8°♎17'06  |            |                     | -3191 Jan 20 j 12:00 | 0°♍       |            |
|                     | -3194 Sep 08 j 23:48 | 0°♏       |            | desc. node          | -3191 Feb 05 j 20:01 | 19°♍35'27 |            |
|                     | -3194 Oct 04 j 07:22 | 0°♌       |            |                     | -3191 Feb 14 j 11:43 | 0°♎       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3191 Mar 11 j 08:28 | 0°♊       |            |                     | -3189 Oct 12 j 02:49 | 0°♌       |            |
|                     | -3191 Apr 05 j 02:35 | 0°♋       |            | retrograde          | -3189 Oct 20 j 09:23 | 1°♌18'57  |            |
|                     | -3191 Apr 29 j 17:42 | 0°♐       |            |                     | -3189 Oct 28 j 09:05 | 30°♌♎     |            |
| morning set         | -3191 May 08 j 13:06 | 10°♐46'13 |            | evening set         | -3189 Nov 03 j 23:11 | 27°♌04'13 |            |
|                     | -3191 May 24 j 05:13 | 0°♋       |            | inferior conj       | -3189 Nov 09 j 22:34 | 23°♎31'46 | -1°10'38   |
| asc. node           | -3191 May 29 j 18:11 | 6°♋49'06  |            | minimum elong       | -3189 Nov 10 j 01:13 | 23°♎27'42 | 1°09'49    |
| max. Earth dist.    | -3191 Jun 09 j 16:07 | 20°♋16'46 | 1.73086 AU | min. Earth dist.    | -3189 Nov 09 j 13:00 | 23°♎46'30 | 0.26411 AU |
|                     |                      |           |            | asc. node           | -3189 Nov 14 j 12:22 | 20°♎47'23 |            |
| superior conj       | -3191 Jun 13 j 11:55 | 25°♋00'26 | 0°33'47    | morning rise        | -3189 Nov 16 j 03:42 | 19°♎53'21 |            |
| minimum elong       | -3191 Jun 13 j 05:42 | 24°♋41'13 | 0°33'35    | direct              | -3189 Nov 30 j 04:42 | 15°♎56'26 |            |
|                     | -3191 Jun 17 j 12:45 | 0°♊       |            | greatest brilliancy | -3189 Dec 09 j 21:37 | 17°♎44'14 | -4.9m      |
|                     | -3191 Jul 11 j 16:36 | 0°♎       |            |                     | -3189 Dec 30 j 02:54 | 0°♌       |            |
| evening rise        | -3191 Jul 19 j 11:31 | 9°♎42'07  |            | morning max el      | -3188 Jan 19 j 02:17 | 18°♌05'09 | 46°27'28   |
|                     | -3191 Aug 04 j 18:06 | 0°♏       |            |                     | -3188 Jan 30 j 18:19 | 0°♌       |            |
|                     | -3191 Aug 28 j 19:13 | 0°♎       |            |                     | -3188 Feb 27 j 05:19 | 0°♎       |            |
| desc. node          | -3191 Sep 18 j 11:59 | 25°♎45'41 |            | desc. node          | -3188 Mar 05 j 07:49 | 8°♎02'11  |            |
|                     | -3191 Sep 21 j 21:54 | 0°♎       |            |                     | -3188 Mar 24 j 10:08 | 0°♊       |            |
|                     | -3191 Oct 16 j 03:53 | 0°♌       |            |                     | -3188 Apr 18 j 23:50 | 0°♋       |            |
|                     | -3191 Nov 09 j 15:43 | 0°♌       |            |                     | -3188 May 14 j 03:11 | 0°♐       |            |
|                     | -3191 Dec 04 j 15:05 | 0°♎       |            |                     | -3188 Jun 07 j 21:41 | 0°♋       |            |
|                     | -3191 Dec 30 j 15:58 | 0°♊       |            | asc. node           | -3188 Jun 26 j 06:15 | 22°♋30'20 |            |
| asc. node           | -3190 Jan 09 j 09:49 | 10°♊38'43 |            |                     | -3188 Jul 02 j 08:03 | 0°♊       |            |
| evening max el      | -3190 Jan 22 j 21:19 | 24°♊33'38 | 45°52'57   | morning set         | -3188 Jul 15 j 02:38 | 15°♊50'15 |            |
|                     | -3190 Jan 28 j 12:37 | 0°♋       |            |                     | -3188 Jul 26 j 11:21 | 0°♎       |            |
| greatest brilliancy | -3190 Mar 02 j 04:55 | 23°♋19'15 | -4.7m      | max. Earth dist.    | -3188 Aug 18 j 15:06 | 29°♎01'36 | 1.71410 AU |
| retrograde          | -3190 Mar 13 j 00:58 | 25°♋27'06 |            |                     | -3188 Aug 19 j 09:41 | 0°♏       |            |
| evening set         | -3190 Mar 29 j 13:50 | 20°♋10'25 |            |                     |                      |           |            |
| inferior conj       | -3190 Apr 03 j 11:21 | 17°♋09'01 | 5°44'45    | superior conj       | -3188 Aug 21 j 14:41 | 2°♏46'36  | 1°24'07    |
| minimum elong       | -3190 Apr 03 j 20:24 | 16°♋54'42 | 5°42'53    | minimum elong       | -3188 Aug 21 j 15:04 | 2°♏47'50  | 1°24'13    |
| min. Earth dist.    | -3190 Apr 03 j 22:22 | 16°♋51'36 | 0.29270 AU |                     | -3188 Sep 12 j 05:45 | 0°♎       |            |
| morning rise        | -3190 Apr 09 j 02:59 | 13°♋41'30 |            | evening rise        | -3188 Sep 30 j 10:55 | 22°♎55'33 |            |
| direct              | -3190 Apr 25 j 06:11 | 8°♋43'49  |            |                     | -3188 Oct 06 j 01:59 | 0°♎       |            |
| desc. node          | -3190 May 01 j 04:36 | 9°♋23'20  |            | desc. node          | -3188 Oct 16 j 00:08 | 12°♎27'41 |            |
| greatest brilliancy | -3190 May 05 j 14:18 | 10°♋39'32 | -4.7m      |                     | -3188 Oct 30 j 00:04 | 0°♌       |            |
|                     | -3190 Jun 03 j 18:35 | 0°♐       |            |                     | -3188 Nov 23 j 01:09 | 0°♌       |            |
| morning max el      | -3190 Jun 13 j 05:45 | 8°♐42'41  | 45°54'19   |                     | -3188 Dec 17 j 06:51 | 0°♎       |            |
|                     | -3190 Jul 04 j 01:57 | 0°♋       |            |                     | -3187 Jan 10 j 20:32 | 0°♊       |            |
|                     | -3190 Jul 30 j 20:40 | 0°♊       |            |                     | -3187 Feb 05 j 00:28 | 0°♋       |            |
| asc. node           | -3190 Aug 22 j 03:55 | 26°♊23'30 |            | asc. node           | -3187 Feb 05 j 21:50 | 1°♋02'35  |            |
|                     | -3190 Aug 25 j 03:40 | 0°♎       |            |                     | -3187 Mar 03 j 06:37 | 0°♐       |            |
|                     | -3190 Sep 18 j 14:55 | 0°♏       |            |                     | -3187 Mar 31 j 21:44 | 0°♋       |            |
|                     | -3190 Oct 12 j 15:48 | 0°♎       |            | evening max el      | -3187 Apr 03 j 14:08 | 2°♋34'51  | 45°09'03   |
|                     | -3190 Nov 05 j 12:57 | 0°♎       |            | greatest brilliancy | -3187 May 11 j 08:36 | 29°♋49'47 | -4.7m      |
|                     | -3190 Nov 29 j 10:36 | 0°♌       |            |                     | -3187 May 11 j 20:14 | 0°♊       |            |
| desc. node          | -3190 Dec 11 j 22:11 | 15°♌37'21 |            | retrograde          | -3187 May 21 j 20:44 | 1°♊48'05  |            |
| morning set         | -3190 Dec 15 j 02:46 | 19°♌36'31 |            | desc. node          | -3187 May 28 j 16:19 | 0°♊53'41  |            |
|                     | -3190 Dec 23 j 10:38 | 0°♌       |            |                     | -3187 May 31 j 11:43 | 30°♌♎     |            |
|                     | -3189 Jan 16 j 13:25 | 0°♎       |            | evening set         | -3187 Jun 05 j 20:23 | 27°♋33'24 |            |
|                     |                      |           |            | inferior conj       | -3187 Jun 12 j 05:20 | 23°♋49'41 | -3°19'47   |
| superior conj       | -3189 Jan 25 j 06:43 | 10°♎48'49 | -1°19'17   | minimum elong       | -3187 Jun 11 j 22:21 | 24°♋00'24 | 3°17'47    |
| minimum elong       | -3189 Jan 25 j 00:01 | 10°♎28'02 | 1°19'17    | min. Earth dist.    | -3187 Jun 12 j 15:28 | 23°♋34'07 | 0.28479 AU |
| max. Earth dist.    | -3189 Jan 28 j 21:55 | 15°♎18'51 | 1.72628 AU | morning rise        | -3187 Jun 17 j 23:35 | 20°♋23'41 |            |
|                     | -3189 Feb 09 j 18:52 | 0°♊       |            | direct              | -3187 Jul 03 j 18:47 | 15°♋38'20 |            |
| evening rise        | -3189 Mar 04 j 21:50 | 28°♊29'57 |            | greatest brilliancy | -3187 Jul 14 j 21:37 | 17°♋51'13 | -4.8m      |
|                     | -3189 Mar 06 j 03:08 | 0°♋       |            |                     | -3187 Aug 03 j 17:18 | 0°♊       |            |
| greatest brilliancy | -3189 Mar 07 j 16:35 | 1°♋55'06  | -3.9m      | morning max el      | -3187 Aug 22 j 15:52 | 17°♊07'49 | 46°29'53   |
|                     | -3189 Mar 30 j 14:37 | 0°♐       |            |                     | -3187 Sep 04 j 02:06 | 0°♎       |            |
| asc. node           | -3189 Apr 03 j 20:03 | 5°♐09'45  |            | asc. node           | -3187 Sep 18 j 15:36 | 16°♎06'08 |            |
|                     | -3189 Apr 24 j 05:50 | 0°♋       |            |                     | -3187 Sep 30 j 16:23 | 0°♏       |            |
|                     | -3189 May 19 j 01:32 | 0°♊       |            |                     | -3187 Oct 25 j 17:45 | 0°♎       |            |
|                     | -3189 Jun 13 j 03:31 | 0°♎       |            |                     | -3187 Nov 19 j 04:31 | 0°♎       |            |
|                     | -3189 Jul 08 j 15:54 | 0°♏       |            |                     | -3187 Dec 13 j 10:56 | 0°♌       |            |
| desc. node          | -3189 Jul 24 j 13:44 | 18°♏16'33 |            |                     | -3186 Jan 06 j 17:36 | 0°♌       |            |
|                     | -3189 Aug 04 j 00:11 | 0°♎       |            | desc. node          | -3186 Jan 08 j 10:17 | 2°♌05'30  |            |
| evening max el      | -3189 Aug 30 j 18:50 | 28°♎26'12 | 47°19'38   |                     | -3186 Jan 31 j 01:51 | 0°♎       |            |
|                     | -3189 Sep 01 j 08:37 | 0°♎       |            |                     | -3186 Feb 24 j 11:30 | 0°♊       |            |
| greatest brilliancy | -3189 Oct 10 j 16:50 | 29°♎31'54 | -4.9m      | morning set         | -3186 Feb 27 j 10:09 | 3°♊37'01  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                           |            |                     |                      |                           |            |
|---------------------|----------------------|---------------------------|------------|---------------------|----------------------|---------------------------|------------|
|                     | -3186 Mar 20 j 21:56 | 0° $\text{H}$             |            | retrograde          | -3184 Aug 02 j 20:34 | 12° $\Omega$ 34'42        |            |
|                     |                      |                           |            | evening set         | -3184 Aug 20 j 19:20 | 6° $\Omega$ 35'17         |            |
| superior conj       | -3186 Apr 05 j 11:29 | 19° $\text{H}$ 06'13      | -0°55'33   | inferior conj       | -3184 Aug 23 j 16:11 | 4° $\Omega$ 52'03         | -8°55'24   |
| minimum elong       | -3186 Apr 05 j 20:08 | 19° $\text{H}$ 32'45      | 0°55'16    | minimum elong       | -3184 Aug 23 j 17:29 | 4° $\Omega$ 50'05         | 8°55'19    |
| max. Earth dist.    | -3186 Apr 05 j 01:40 | 18° $\text{H}$ 36'08      | 1.73698 AU | min. Earth dist.    | -3184 Aug 24 j 03:28 | 4° $\Omega$ 34'58         | 0.27210 AU |
|                     | -3186 Apr 14 j 08:36 | 0° $\Upsilon$             |            | morning rise        | -3184 Aug 26 j 15:32 | 3° $\Omega$ 05'04         |            |
| asc. node           | -3186 May 01 j 08:12 | 20° $\Upsilon$ 50'56      |            |                     | -3184 Sep 01 j 09:59 | 30° $\text{R}$ $\text{S}$ |            |
|                     | -3186 May 08 j 19:03 | 0° $\text{B}$             |            | direct              | -3184 Sep 13 j 11:58 | 27° $\text{S}$ 04'54      |            |
| evening rise        | -3186 May 11 j 13:49 | 3° $\text{B}$ 24'58       |            | greatest brilliancy | -3184 Sep 24 j 07:59 | 29° $\text{S}$ 17'56      | -4.9m      |
|                     | -3186 Jun 02 j 05:02 | 0° $\Pi$                  |            |                     | -3184 Sep 26 j 00:22 | 0° $\Omega$               |            |
|                     | -3186 Jun 26 j 14:56 | 0° $\text{S}$             |            | asc. node           | -3184 Oct 16 j 02:56 | 13° $\Omega$ 28'21        |            |
|                     | -3186 Jul 21 j 02:00 | 0° $\Omega$               |            |                     | -3184 Nov 02 j 15:07 | 0° $\text{M}$             |            |
|                     | -3186 Aug 14 j 16:21 | 0° $\text{M}$             |            | morning max el      | -3184 Nov 03 j 08:39 | 0° $\text{M}$ 44'49       | 46°53'12   |
| desc. node          | -3186 Aug 21 j 01:53 | 7° $\text{M}$ 45'23       |            |                     | -3184 Nov 30 j 03:12 | 0° $\Omega$               |            |
|                     | -3186 Sep 08 j 13:10 | 0° $\Omega$               |            |                     | -3184 Dec 25 j 20:50 | 0° $\text{M}$             |            |
|                     | -3186 Oct 03 j 22:24 | 0° $\text{M}$             |            |                     | -3183 Jan 20 j 00:48 | 0° $\text{A}$             |            |
|                     | -3186 Oct 30 j 12:06 | 0° $\text{A}$             |            | desc. node          | -3183 Feb 04 j 22:09 | 19° $\text{A}$ 05'10      |            |
| evening max el      | -3186 Nov 10 j 11:33 | 11° $\text{A}$ 35'24      | 47°17'32   |                     | -3183 Feb 13 j 23:41 | 0° $\text{S}$             |            |
|                     | -3186 Nov 30 j 00:49 | 0° $\text{S}$             |            |                     | -3183 Mar 10 j 19:52 | 0° $\approx$              |            |
| asc. node           | -3186 Dec 12 j 00:15 | 8° $\text{S}$ 49'53       |            |                     | -3183 Apr 04 j 13:36 | 0° $\text{H}$             |            |
| greatest brilliancy | -3186 Dec 20 j 18:30 | 13° $\text{S}$ 20'45      | -4.9m      |                     | -3183 Apr 29 j 04:28 | 0° $\Upsilon$             |            |
| retrograde          | -3186 Dec 31 j 13:13 | 15° $\text{S}$ 34'47      |            | morning set         | -3183 May 06 j 08:16 | 8° $\Upsilon$ 45'11       |            |
| evening set         | -3185 Jan 17 j 09:57 | 9° $\text{S}$ 55'41       |            |                     | -3183 May 23 j 15:52 | 0° $\text{B}$             |            |
| min. Earth dist.    | -3185 Jan 20 j 18:08 | 7° $\text{S}$ 50'50       | 0.28258 AU | asc. node           | -3183 May 28 j 20:25 | 6° $\text{B}$ 23'13       |            |
| inferior conj       | -3185 Jan 21 j 15:58 | 7° $\text{S}$ 16'04       | 7°47'31    | max. Earth dist.    | -3183 Jun 07 j 11:34 | 18° $\text{B}$ 15'48      | 1.73131 AU |
| minimum elong       | -3185 Jan 21 j 09:13 | 7° $\text{S}$ 26'50       | 7°46'39    |                     |                      |                           |            |
| morning rise        | -3185 Jan 25 j 08:52 | 4° $\text{S}$ 56'58       |            | superior conj       | -3183 Jun 11 j 06:44 | 22° $\text{B}$ 57'22      | 0°30'56    |
|                     | -3185 Feb 05 j 04:33 | 30° $\text{R}$ $\text{A}$ |            | minimum elong       | -3183 Jun 11 j 00:59 | 22° $\text{B}$ 39'34      | 0°30'46    |
| direct              | -3185 Feb 11 j 15:05 | 29° $\text{A}$ 09'14      |            |                     | -3183 Jun 16 j 23:24 | 0° $\Pi$                  |            |
|                     | -3185 Feb 18 j 07:34 | 0° $\text{S}$             |            |                     | -3183 Jul 11 j 03:22 | 0° $\text{S}$             |            |
| greatest brilliancy | -3185 Feb 20 j 12:04 | 0° $\text{S}$ 36'55       | -4.8m      | evening rise        | -3183 Jul 17 j 04:56 | 7° $\text{S}$ 33'07       |            |
| morning max el      | -3185 Apr 01 j 12:19 | 29° $\text{S}$ 12'04      | 45°53'08   |                     | -3183 Aug 04 j 05:05 | 0° $\Omega$               |            |
|                     | -3185 Apr 02 j 08:21 | 0° $\approx$              |            |                     | -3183 Aug 28 j 06:30 | 0° $\text{M}$             |            |
| desc. node          | -3185 Apr 02 j 19:13 | 0° $\approx$ 26'05        |            | desc. node          | -3183 Sep 17 j 13:59 | 25° $\text{M}$ 15'55      |            |
|                     | -3185 May 01 j 09:01 | 0° $\text{H}$             |            |                     | -3183 Sep 21 j 09:32 | 0° $\Omega$               |            |
|                     | -3185 May 28 j 02:49 | 0° $\Upsilon$             |            |                     | -3183 Oct 15 j 15:58 | 0° $\text{M}$             |            |
|                     | -3185 Jun 22 j 18:10 | 0° $\text{B}$             |            |                     | -3183 Nov 09 j 04:24 | 0° $\text{A}$             |            |
|                     | -3185 Jul 17 j 16:00 | 0° $\Pi$                  |            |                     | -3183 Dec 04 j 04:52 | 0° $\text{S}$             |            |
| asc. node           | -3185 Jul 24 j 18:15 | 8° $\Pi$ 40'22            |            |                     | -3183 Dec 30 j 08:14 | 0° $\approx$              |            |
|                     | -3185 Aug 11 j 00:52 | 0° $\text{S}$             |            | asc. node           | -3182 Jan 08 j 12:00 | 9° $\approx$ 56'43        |            |
|                     | -3185 Sep 04 j 00:51 | 0° $\Omega$               |            | evening max el      | -3182 Jan 20 j 12:41 | 22° $\approx$ 19'49       | 45°55'37   |
| greatest brilliancy | -3185 Sep 13 j 10:48 | 11° $\Omega$ 50'59        | -3.9m      |                     | -3182 Jan 28 j 13:08 | 0° $\text{H}$             |            |
| morning set         | -3185 Sep 26 j 09:59 | 28° $\Omega$ 12'15        |            | greatest brilliancy | -3182 Feb 27 j 22:41 | 21° $\text{H}$ 12'52      | -4.7m      |
|                     | -3185 Sep 27 j 20:08 | 0° $\text{M}$             |            | retrograde          | -3182 Mar 10 j 17:34 | 23° $\text{H}$ 19'50      |            |
|                     | -3185 Oct 21 j 14:26 | 0° $\Omega$               |            | evening set         | -3182 Mar 27 j 09:16 | 17° $\text{H}$ 59'35      |            |
|                     |                      |                           |            | inferior conj       | -3182 Apr 01 j 04:17 | 15° $\text{H}$ 01'30      | 5°58'12    |
| superior conj       | -3185 Nov 06 j 13:03 | 20° $\Omega$ 05'09        | 0°16'16    | minimum elong       | -3182 Apr 01 j 13:19 | 14° $\text{H}$ 47'10      | 5°56'24    |
| minimum elong       | -3185 Nov 06 j 17:27 | 20° $\Omega$ 18'58        | 0°16'01    | min. Earth dist.    | -3182 Apr 01 j 14:46 | 14° $\text{H}$ 44'50      | 0.29272 AU |
| behind sun begin    | -3185 Nov 06 j 11:47 | 20° $\Omega$ 01'08        |            | morning rise        | -3182 Apr 06 j 17:24 | 11° $\text{H}$ 37'05      |            |
| behind sun end      | -3185 Nov 06 j 23:07 | 20° $\Omega$ 36'48        |            | direct              | -3182 Apr 22 j 22:45 | 6° $\text{H}$ 36'27       |            |
| max. Earth dist.    | -3185 Nov 10 j 08:57 | 24° $\Omega$ 54'09        | 1.71072 AU | desc. node          | -3182 Apr 30 j 06:42 | 7° $\text{H}$ 35'50       |            |
| desc. node          | -3185 Nov 13 j 12:15 | 28° $\Omega$ 50'50        |            | greatest brilliancy | -3182 May 03 j 05:31 | 8° $\text{H}$ 30'34       | -4.7m      |
|                     | -3185 Nov 14 j 10:16 | 0° $\text{M}$             |            |                     | -3182 Jun 03 j 20:43 | 0° $\Upsilon$             |            |
|                     | -3185 Dec 08 j 08:47 | 0° $\text{A}$             |            | morning max el      | -3182 Jun 10 j 21:03 | 6° $\Upsilon$ 31'31       | 45°53'37   |
| evening rise        | -3185 Dec 18 j 20:42 | 13° $\text{A}$ 06'21      |            |                     | -3182 Jul 03 j 18:26 | 0° $\text{B}$             |            |
|                     | -3184 Jan 01 j 10:28 | 0° $\text{S}$             |            |                     | -3182 Jul 30 j 10:19 | 0° $\Pi$                  |            |
|                     | -3184 Jan 25 j 16:13 | 0° $\approx$              |            | asc. node           | -3182 Aug 21 j 06:02 | 25° $\Pi$ 52'13           |            |
|                     | -3184 Feb 19 j 03:51 | 0° $\text{H}$             |            |                     | -3182 Aug 24 j 16:04 | 0° $\text{S}$             |            |
| asc. node           | -3184 Mar 05 j 10:00 | 18° $\text{H}$ 28'55      |            |                     | -3182 Sep 18 j 02:43 | 0° $\Omega$               |            |
|                     | -3184 Mar 15 j 00:08 | 0° $\Upsilon$             |            |                     | -3182 Oct 12 j 03:18 | 0° $\text{M}$             |            |
|                     | -3184 Apr 09 j 08:58 | 0° $\text{B}$             |            |                     | -3182 Nov 05 j 00:18 | 0° $\Omega$               |            |
|                     | -3184 May 05 j 13:22 | 0° $\Pi$                  |            |                     | -3182 Nov 28 j 21:49 | 0° $\text{M}$             |            |
|                     | -3184 Jun 02 j 07:29 | 0° $\text{S}$             |            | desc. node          | -3182 Dec 11 j 00:25 | 15° $\text{M}$ 09'34      |            |
| evening max el      | -3184 Jun 14 j 12:59 | 12° $\text{S}$ 12'05      | 45°53'43   | morning set         | -3182 Dec 12 j 12:36 | 17° $\text{M}$ 02'37      |            |
| desc. node          | -3184 Jun 25 j 04:05 | 21° $\text{S}$ 57'31      |            |                     | -3182 Dec 22 j 21:41 | 0° $\text{A}$             |            |
|                     | -3184 Jul 05 j 00:53 | 0° $\Omega$               |            |                     | -3181 Jan 16 j 00:21 | 0° $\text{S}$             |            |
| greatest brilliancy | -3184 Jul 24 j 13:42 | 11° $\Omega$ 00'46        | -4.8m      |                     |                      |                           |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 45

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                  |            |                     |                      |                                  |            |
|---------------------|----------------------|----------------------------------|------------|---------------------|----------------------|----------------------------------|------------|
| superior conj       | -3181 Jan 22 j 19:33 | 8° $\text{Z}$ 26'05              | -1°18'01   | greatest brilliancy | -3179 Jul 12 j 13:33 | 15° $\text{B}$ 38'24             | -4.8m      |
| minimum elong       | -3181 Jan 22 j 12:07 | 8° $\text{Z}$ 03'01              | 1°17'59    |                     | -3179 Aug 04 j 03:00 | 0° $\text{II}$                   |            |
| max. Earth dist.    | -3181 Jan 26 j 14:54 | 13° $\text{Z}$ 09'02             | 1.72570 AU | morning max el      | -3179 Aug 20 j 07:50 | 14° $\text{II}$ 53'08            | 46°28'43   |
|                     | -3181 Feb 09 j 05:43 | 0° $\approx$                     |            |                     | -3179 Sep 03 j 20:28 | 0° $\text{G}$                    |            |
| evening rise        | -3181 Mar 02 j 13:35 | 26° $\approx$ 17'24              |            | asc. node           | -3179 Sep 17 j 17:38 | 15° $\text{G}$ 26'28             |            |
| greatest brilliancy | -3181 Mar 05 j 11:10 | 29° $\approx$ 51'18              | -3.9m      |                     | -3179 Sep 30 j 07:06 | 0° $\Omega$                      |            |
|                     | -3181 Mar 05 j 14:00 | 0° $\text{H}$                    |            |                     | -3179 Oct 25 j 06:56 | 0° $\text{M}$                    |            |
|                     | -3181 Mar 30 j 01:37 | 0° $\text{Y}$                    |            |                     | -3179 Nov 18 j 16:53 | 0° $\underline{\text{A}}$        |            |
| asc. node           | -3181 Apr 02 j 22:06 | 4° $\text{Y}$ 42'20              |            |                     | -3179 Dec 12 j 22:48 | 0° $\text{M}$                    |            |
|                     | -3181 Apr 23 j 17:06 | 0° $\text{B}$                    |            |                     | -3178 Jan 06 j 05:08 | 0° $\text{A}$                    |            |
|                     | -3181 May 18 j 13:18 | 0° $\text{II}$                   |            | desc. node          | -3178 Jan 07 j 12:23 | 1° $\text{A}$ 36'25              |            |
|                     | -3181 Jun 12 j 16:08 | 0° $\text{G}$                    |            |                     | -3178 Jan 30 j 13:08 | 0° $\text{Z}$                    |            |
|                     | -3181 Jul 08 j 05:59 | 0° $\Omega$                      |            |                     | -3178 Feb 23 j 22:34 | 0° $\approx$                     |            |
| desc. node          | -3181 Jul 23 j 15:53 | 17° $\Omega$ 38'41               |            | morning set         | -3178 Feb 25 j 01:37 | 1° $\approx$ 23'04               |            |
|                     | -3181 Aug 03 j 17:08 | 0° $\text{M}$                    |            |                     | -3178 Mar 20 j 08:51 | 0° $\text{H}$                    |            |
| evening max el      | -3181 Aug 28 j 07:11 | 25° $\text{M}$ 58'51             | 47°17'29   |                     |                      |                                  |            |
|                     | -3181 Sep 01 j 09:17 | 0° $\underline{\text{A}}$        |            | superior conj       | -3178 Apr 03 j 05:20 | 17° $\text{H}$ 00'22             | -0°57'53   |
| greatest brilliancy | -3181 Oct 08 j 07:20 | 27° $\underline{\text{A}}$ 04'10 | -4.9m      | minimum elong       | -3178 Apr 03 j 14:05 | 17° $\text{H}$ 27'14             | 0°57'35    |
| retrograde          | -3181 Oct 17 j 21:15 | 28° $\underline{\text{A}}$ 49'05 |            | max. Earth dist.    | -3178 Apr 02 j 23:22 | 16° $\text{H}$ 42'03             | 1.73688 AU |
| evening set         | -3181 Nov 01 j 13:04 | 24° $\underline{\text{A}}$ 32'48 |            |                     | -3178 Apr 13 j 19:27 | 0° $\text{Y}$                    |            |
| inferior conj       | -3181 Nov 07 j 10:57 | 21° $\underline{\text{A}}$ 02'57 | -1°34'46   | asc. node           | -3178 Apr 30 j 10:23 | 20° $\text{Y}$ 24'11             |            |
| minimum elong       | -3181 Nov 07 j 14:29 | 20° $\underline{\text{A}}$ 57'32 | 1°33'41    |                     | -3178 May 08 j 05:58 | 0° $\text{B}$                    |            |
| min. Earth dist.    | -3181 Nov 07 j 03:14 | 21° $\underline{\text{A}}$ 14'50 | 0.26393 AU | evening rise        | -3178 May 09 j 08:59 | 1° $\text{B}$ 22'56              |            |
| morning rise        | -3181 Nov 13 j 16:12 | 17° $\underline{\text{A}}$ 24'19 |            |                     | -3178 Jun 01 j 16:10 | 0° $\text{II}$                   |            |
| asc. node           | -3181 Nov 13 j 14:37 | 17° $\underline{\text{A}}$ 26'25 |            |                     | -3178 Jun 26 j 02:24 | 0° $\text{G}$                    |            |
| direct              | -3181 Nov 27 j 16:17 | 13° $\underline{\text{A}}$ 27'43 |            |                     | -3178 Jul 20 j 13:57 | 0° $\Omega$                      |            |
| greatest brilliancy | -3181 Dec 07 j 12:06 | 15° $\underline{\text{A}}$ 17'44 | -4.9m      |                     | -3178 Aug 14 j 04:57 | 0° $\text{M}$                    |            |
|                     | -3181 Dec 30 j 15:21 | 0° $\text{M}$                    |            | desc. node          | -3178 Aug 20 j 03:53 | 7° $\text{M}$ 12'39              |            |
| morning max el      | -3180 Jan 16 j 14:53 | 15° $\text{M}$ 39'42             | 46°28'53   |                     | -3178 Sep 08 j 02:45 | 0° $\underline{\text{A}}$        |            |
|                     | -3180 Jan 30 j 13:36 | 0° $\text{A}$                    |            |                     | -3178 Oct 03 j 13:42 | 0° $\text{M}$                    |            |
|                     | -3180 Feb 26 j 20:20 | 0° $\text{Z}$                    |            |                     | -3178 Oct 30 j 07:14 | 0° $\text{A}$                    |            |
| desc. node          | -3180 Mar 04 j 09:51 | 7° $\text{Z}$ 27'02              |            | evening max el      | -3178 Nov 08 j 03:45 | 9° $\text{A}$ 18'04              | 47°19'36   |
|                     | -3180 Mar 23 j 23:15 | 0° $\approx$                     |            |                     | -3178 Nov 30 j 12:25 | 0° $\text{Z}$                    |            |
|                     | -3180 Apr 18 j 11:55 | 0° $\text{H}$                    |            | asc. node           | -3178 Dec 11 j 02:21 | 7° $\text{Z}$ 24'21              |            |
|                     | -3180 May 13 j 14:39 | 0° $\text{Y}$                    |            | greatest brilliancy | -3178 Dec 18 j 10:02 | 11° $\text{Z}$ 02'52             | -4.9m      |
|                     | -3180 Jun 07 j 08:48 | 0° $\text{B}$                    |            | retrograde          | -3178 Dec 29 j 05:50 | 13° $\text{Z}$ 17'41             |            |
| asc. node           | -3180 Jun 25 j 08:26 | 22° $\text{B}$ 03'18             |            | evening set         | -3177 Jan 14 j 22:42 | 7° $\text{Z}$ 43'04              |            |
|                     | -3180 Jul 01 j 18:58 | 0° $\text{II}$                   |            | min. Earth dist.    | -3177 Jan 18 j 08:24 | 5° $\text{Z}$ 36'05              | 0.28189 AU |
| morning set         | -3180 Jul 12 j 19:20 | 13° $\text{II}$ 39'06            |            | inferior conj       | -3177 Jan 19 j 07:30 | 4° $\text{Z}$ 59'22              | 7°39'45    |
|                     | -3180 Jul 25 j 22:13 | 0° $\text{G}$                    |            | minimum elong       | -3177 Jan 19 j 00:14 | 5° $\text{Z}$ 10'55              | 7°38'44    |
| max. Earth dist.    | -3180 Aug 16 j 04:20 | 26° $\text{G}$ 38'03             | 1.71459 AU | morning rise        | -3177 Jan 23 j 02:14 | 2° $\text{Z}$ 37'49              |            |
|                     | -3180 Aug 18 j 20:36 | 0° $\Omega$                      |            |                     | -3177 Jan 27 j 21:00 | 30° $\text{R}$ $\text{A}$        |            |
|                     |                      |                                  |            | direct              | -3177 Feb 09 j 06:17 | 26° $\text{A}$ 53'44             |            |
| superior conj       | -3180 Aug 19 j 05:22 | 0° $\Omega$ 27'34                | 1°24'06    | greatest brilliancy | -3177 Feb 18 j 01:40 | 28° $\text{A}$ 20'39             | -4.8m      |
| minimum elong       | -3180 Aug 19 j 04:56 | 0° $\Omega$ 26'12                | 1°24'12    |                     | -3177 Feb 22 j 10:15 | 0° $\text{Z}$                    |            |
|                     | -3180 Sep 11 j 16:45 | 0° $\text{M}$                    |            | morning max el      | -3177 Mar 30 j 04:27 | 27° $\text{Z}$ 01'23             | 45°53'45   |
| evening rise        | -3180 Sep 27 j 21:27 | 20° $\text{M}$ 22'56             |            | desc. node          | -3177 Apr 01 j 21:21 | 29° $\text{Z}$ 37'44             |            |
|                     | -3180 Oct 05 j 13:07 | 0° $\underline{\text{A}}$        |            |                     | -3177 Apr 02 j 06:30 | 0° $\approx$                     |            |
| desc. node          | -3180 Oct 15 j 02:14 | 11° $\underline{\text{A}}$ 59'06 |            |                     | -3177 May 01 j 00:47 | 0° $\text{H}$                    |            |
|                     | -3180 Oct 29 j 11:22 | 0° $\text{M}$                    |            |                     | -3177 May 27 j 16:15 | 0° $\text{Y}$                    |            |
|                     | -3180 Nov 22 j 12:38 | 0° $\text{A}$                    |            |                     | -3177 Jun 22 j 06:29 | 0° $\text{B}$                    |            |
|                     | -3180 Dec 16 j 18:38 | 0° $\text{Z}$                    |            |                     | -3177 Jul 17 j 03:44 | 0° $\text{II}$                   |            |
|                     | -3179 Jan 10 j 08:49 | 0° $\approx$                     |            | asc. node           | -3177 Jul 23 j 20:16 | 8° $\text{II}$ 10'58             |            |
| asc. node           | -3179 Feb 04 j 23:55 | 0° $\text{H}$ 29'46              |            |                     | -3177 Aug 10 j 12:19 | 0° $\text{G}$                    |            |
|                     | -3179 Feb 04 j 13:43 | 0° $\text{H}$                    |            |                     | -3177 Sep 03 j 12:10 | 0° $\Omega$                      |            |
|                     | -3179 Mar 02 j 22:06 | 0° $\text{Y}$                    |            | greatest brilliancy | -3177 Sep 12 j 19:38 | 11° $\Omega$ 43'14               | -3.9m      |
|                     | -3179 Mar 31 j 19:43 | 0° $\text{B}$                    |            | morning set         | -3177 Sep 23 j 21:54 | 25° $\Omega$ 42'52               |            |
| evening max el      | -3179 Apr 01 j 05:20 | 0° $\text{B}$ 22'54              | 45°09'13   |                     | -3177 Sep 27 j 07:23 | 0° $\text{M}$                    |            |
| greatest brilliancy | -3179 May 08 j 22:27 | 27° $\text{B}$ 36'52             | -4.7m      |                     | -3177 Oct 21 j 01:40 | 0° $\underline{\text{A}}$        |            |
| retrograde          | -3179 May 19 j 12:19 | 29° $\text{B}$ 36'41             |            |                     |                      |                                  |            |
| desc. node          | -3179 May 27 j 18:32 | 28° $\text{B}$ 16'29             |            | superior conj       | -3177 Nov 03 j 22:06 | 17° $\underline{\text{A}}$ 27'11 | 0°20'11    |
| evening set         | -3179 Jun 03 j 10:44 | 25° $\text{B}$ 22'29             |            | minimum elong       | -3177 Nov 04 j 03:29 | 17° $\underline{\text{A}}$ 44'09 | 0°19'54    |
| inferior conj       | -3179 Jun 09 j 20:39 | 21° $\text{B}$ 37'22             | -3°00'34   | max. Earth dist.    | -3177 Nov 07 j 17:32 | 22° $\underline{\text{A}}$ 14'52 | 1.71037 AU |
| minimum elong       | -3179 Jun 09 j 14:16 | 21° $\text{B}$ 47'10             | 2°58'42    | desc. node          | -3177 Nov 12 j 14:28 | 28° $\underline{\text{A}}$ 22'28 |            |
| min. Earth dist.    | -3179 Jun 10 j 06:59 | 21° $\text{B}$ 21'31             | 0.28517 AU |                     | -3177 Nov 13 j 21:30 | 0° $\text{M}$                    |            |
| morning rise        | -3179 Jun 15 j 17:07 | 18° $\text{B}$ 08'29             |            |                     | -3177 Dec 07 j 20:00 | 0° $\text{A}$                    |            |
| direct              | -3179 Jul 01 j 10:40 | 13° $\text{B}$ 25'07             |            | evening rise        | -3177 Dec 16 j 07:14 | 10° $\text{A}$ 34'37             |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|
|                     | -3177 Dec 31 j 21:41 | 0°☾       |            |                     |  | -3174 Jul 30 j 00:14 | 0°☿       |            |
|                     | -3176 Jan 25 j 03:32 | 0°♊       |            | asc. node           |  | -3174 Aug 20 j 08:07 | 25°♊19'43 |            |
|                     | -3176 Feb 18 j 15:25 | 0°♋       |            |                     |  | -3174 Aug 24 j 04:48 | 0°♌       |            |
| asc. node           | -3176 Mar 04 j 12:01 | 17°♋59'14 |            |                     |  | -3174 Sep 17 j 14:51 | 0°♍       |            |
|                     | -3176 Mar 14 j 12:15 | 0°♌       |            |                     |  | -3174 Oct 11 j 15:07 | 0°♎       |            |
|                     | -3176 Apr 08 j 22:06 | 0°♍       |            |                     |  | -3174 Nov 04 j 11:56 | 0°♏       |            |
|                     | -3176 May 05 j 04:31 | 0°♎       |            |                     |  | -3174 Nov 28 j 09:17 | 0°♐       |            |
|                     | -3176 Jun 02 j 03:29 | 0°♏       |            | morning set         |  | -3174 Dec 09 j 22:21 | 14°♐27'22 |            |
| evening max el      | -3176 Jun 12 j 03:00 | 9°♏53'14  | 45°50'53   | desc. node          |  | -3174 Dec 10 j 02:25 | 14°♐40'04 |            |
| desc. node          | -3176 Jun 24 j 06:12 | 20°♏55'47 |            |                     |  | -3174 Dec 22 j 09:02 | 0°♑       |            |
|                     | -3176 Jul 05 j 20:30 | 0°♑       |            |                     |  | -3173 Jan 15 j 11:34 | 0°☾       |            |
| greatest brilliancy | -3176 Jul 22 j 01:16 | 8°♑35'57  | -4.8m      |                     |  |                      |           |            |
| retrograde          | -3176 Jul 31 j 08:34 | 10°♑09'52 |            | superior conj       |  | -3173 Jan 20 j 08:26 | 6°☾02'33  | -1°16'36   |
| evening set         | -3176 Aug 18 j 07:18 | 4°♑11'42  |            | minimum elong       |  | -3173 Jan 20 j 00:18 | 5°☾37'19  | 1°16'33    |
| inferior conj       | -3176 Aug 21 j 04:57 | 2°♑27'05  | -8°55'48   | max. Earth dist.    |  | -3173 Jan 24 j 05:19 | 10°☾50'26 | 1.72507 AU |
| minimum elong       | -3176 Aug 21 j 05:17 | 2°♑26'35  | 8°55'43    |                     |  | -3173 Feb 08 j 16:51 | 0°♊       |            |
| min. Earth dist.    | -3176 Aug 21 j 16:02 | 2°♑10'15  | 0.27258 AU | evening rise        |  | -3173 Feb 28 j 05:29 | 24°♊04'32 |            |
| morning rise        | -3176 Aug 24 j 03:10 | 0°♑41'30  |            | greatest brilliancy |  | -3173 Mar 02 j 19:43 | 27°♊15'53 | -3.9m      |
|                     | -3176 Aug 25 j 07:40 | 30°♋☾     |            |                     |  | -3173 Mar 05 j 01:06 | 0°♋       |            |
| direct              | -3176 Sep 11 j 01:33 | 24°♌39'15 |            |                     |  | -3173 Mar 29 j 12:49 | 0°♌       |            |
| greatest brilliancy | -3176 Sep 21 j 21:30 | 26°♌51'40 | -4.9m      | asc. node           |  | -3173 Apr 02 j 00:20 | 4°♌14'51  |            |
|                     | -3176 Sep 28 j 09:30 | 0°♍       |            |                     |  | -3173 Apr 23 j 04:36 | 0°♍       |            |
| asc. node           | -3176 Oct 15 j 05:12 | 12°♍20'21 |            |                     |  | -3173 May 18 j 01:22 | 0°♎       |            |
| morning max el      | -3176 Oct 31 j 21:27 | 28°♍15'53 | 46°53'14   |                     |  | -3173 Jun 12 j 05:08 | 0°♏       |            |
|                     | -3176 Nov 02 j 13:51 | 0°♎       |            |                     |  | -3173 Jul 07 j 20:36 | 0°♐       |            |
|                     | -3176 Nov 29 j 19:49 | 0°♏       |            | desc. node          |  | -3173 Jul 22 j 17:53 | 16°♐58'56 |            |
|                     | -3176 Dec 25 j 11:04 | 0°♐       |            |                     |  | -3173 Aug 03 j 10:52 | 0°♑       |            |
|                     | -3175 Jan 19 j 13:44 | 0°♑       |            | evening max el      |  | -3173 Aug 25 j 19:25 | 23°♑30'13 | 47°15'22   |
| desc. node          | -3175 Feb 04 j 00:11 | 18°♑34'03 |            |                     |  | -3173 Sep 01 j 11:46 | 0°♒       |            |
|                     | -3175 Feb 13 j 11:49 | 0°☾       |            | greatest brilliancy |  | -3173 Oct 05 j 21:27 | 24°♒34'49 | -4.9m      |
|                     | -3175 Mar 10 j 07:27 | 0°♊       |            | retrograde          |  | -3173 Oct 15 j 09:21 | 26°♒18'17 |            |
|                     | -3175 Apr 04 j 00:51 | 0°♋       |            | evening set         |  | -3173 Oct 30 j 03:03 | 21°♒59'46 |            |
|                     | -3175 Apr 28 j 15:32 | 0°♌       |            | inferior conj       |  | -3173 Nov 04 j 23:15 | 18°♒32'57 | -1°58'50   |
| morning set         | -3175 May 04 j 03:14 | 6°♌42'40  |            | minimum elong       |  | -3173 Nov 05 j 03:38 | 18°♒26'12 | 1°57'28    |
|                     | -3175 May 23 j 02:52 | 0°♍       |            | min. Earth dist.    |  | -3173 Nov 04 j 17:13 | 18°♒42'12 | 0.26378 AU |
| asc. node           | -3175 May 27 j 22:31 | 5°♍55'54  |            | morning rise        |  | -3173 Nov 11 j 04:25 | 14°♒54'39 |            |
| max. Earth dist.    | -3175 Jun 05 j 05:52 | 16°♍10'18 | 1.73179 AU | asc. node           |  | -3173 Nov 12 j 16:44 | 14°♒08'19 |            |
|                     |                      |           |            | direct              |  | -3173 Nov 25 j 03:59 | 10°♒57'40 |            |
| superior conj       | -3175 Jun 09 j 01:21 | 20°♍52'40 | 0°28'02    | greatest brilliancy |  | -3173 Dec 05 j 02:22 | 12°♒50'04 | -4.9m      |
| minimum elong       | -3175 Jun 08 j 20:04 | 20°♍36'22 | 0°27'52    |                     |  | -3173 Dec 31 j 00:59 | 0°♓       |            |
|                     | -3175 Jun 16 j 10:24 | 0°♎       |            | morning max el      |  | -3172 Jan 14 j 04:31 | 13°♓15'53 | 46°30'22   |
|                     | -3175 Jul 10 j 14:29 | 0°♏       |            |                     |  | -3172 Jan 30 j 08:38 | 0°♑       |            |
| evening rise        | -3175 Jul 14 j 22:12 | 5°♏22'39  |            |                     |  | -3172 Feb 26 j 11:23 | 0°☾       |            |
|                     | -3175 Aug 03 j 16:25 | 0°♐       |            | desc. node          |  | -3172 Mar 03 j 11:56 | 6°☾51'35  |            |
|                     | -3175 Aug 27 j 18:07 | 0°♑       |            |                     |  | -3172 Mar 23 j 12:28 | 0°♊       |            |
| desc. node          | -3175 Sep 16 j 16:05 | 24°♑45'24 |            |                     |  | -3172 Apr 18 j 00:07 | 0°♋       |            |
|                     | -3175 Sep 20 j 21:32 | 0°♒       |            |                     |  | -3172 May 13 j 02:14 | 0°♌       |            |
|                     | -3175 Oct 15 j 04:24 | 0°♓       |            |                     |  | -3172 Jun 06 j 20:02 | 0°♍       |            |
|                     | -3175 Nov 08 j 17:29 | 0°♑       |            | asc. node           |  | -3172 Jun 24 j 10:27 | 21°♍35'16 |            |
|                     | -3175 Dec 03 j 19:05 | 0°☾       |            |                     |  | -3172 Jul 01 j 06:03 | 0°♎       |            |
|                     | -3175 Dec 30 j 01:03 | 0°♊       |            | morning set         |  | -3172 Jul 10 j 12:16 | 11°♎28'09 |            |
| asc. node           | -3174 Jan 07 j 14:05 | 9°♊13'20  |            |                     |  | -3172 Jul 25 j 09:19 | 0°♏       |            |
| evening max el      | -3174 Jan 18 j 03:20 | 20°♊03'33 | 45°58'29   | max. Earth dist.    |  | -3172 Aug 13 j 17:15 | 24°♏12'47 | 1.71514 AU |
|                     | -3174 Jan 28 j 15:09 | 0°♋       |            |                     |  |                      |           |            |
| greatest brilliancy | -3174 Feb 25 j 16:29 | 19°♋06'15 | -4.7m      | superior conj       |  | -3172 Aug 16 j 20:03 | 28°♏07'45 | 1°23'56    |
| retrograde          | -3174 Mar 08 j 10:13 | 21°♋12'45 |            | minimum elong       |  | -3172 Aug 16 j 18:48 | 28°♏03'49 | 1°24'02    |
| evening set         | -3174 Mar 25 j 04:52 | 15°♋48'38 |            |                     |  | -3172 Aug 18 j 07:47 | 0°♐       |            |
| inferior conj       | -3174 Mar 29 j 21:27 | 12°♋54'03 | 6°11'02    |                     |  | -3172 Sep 11 j 04:03 | 0°♑       |            |
| minimum elong       | -3174 Mar 30 j 06:26 | 12°♋39'47 | 6°09'19    | evening rise        |  | -3172 Sep 25 j 07:50 | 17°♑48'55 |            |
| min. Earth dist.    | -3174 Mar 30 j 07:36 | 12°♋37'56 | 0.29275 AU |                     |  | -3172 Oct 05 j 00:32 | 0°♒       |            |
| morning rise        | -3174 Apr 04 j 07:59 | 9°♋32'53  |            | desc. node          |  | -3172 Oct 14 j 04:25 | 11°♒29'56 |            |
| direct              | -3174 Apr 20 j 15:09 | 4°♋28'56  |            |                     |  | -3172 Oct 28 j 22:55 | 0°♓       |            |
| desc. node          | -3174 Apr 29 j 08:56 | 5°♋52'03  |            |                     |  | -3172 Nov 22 j 00:22 | 0°♑       |            |
| greatest brilliancy | -3174 Apr 30 j 21:31 | 6°♋22'10  | -4.7m      |                     |  | -3172 Dec 16 j 06:39 | 0°☾       |            |
|                     | -3174 Jun 03 j 21:50 | 0°♌       |            |                     |  | -3171 Jan 09 j 21:20 | 0°♊       |            |
| morning max el      | -3174 Jun 08 j 12:28 | 4°♌19'47  | 45°52'48   | asc. node           |  | -3171 Feb 04 j 01:59 | 29°♊56'18 |            |
|                     | -3174 Jul 03 j 11:00 | 0°♍       |            |                     |  | -3171 Feb 04 j 03:15 | 0°♋       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3171 Mar 02 j 13:56 | 0°♄       |            | greatest brilliancy | -3169 Sep 12 j 00:34 | 11°♌23'42 | -3.9m      |
| evening max el      | -3171 Mar 29 j 21:38 | 28°♄13'36 | 45°09'35   | morning set         | -3169 Sep 21 j 10:14 | 23°♌15'16 |            |
|                     | -3171 Mar 31 j 18:39 | 0°♄       |            |                     | -3169 Sep 26 j 18:30 | 0°♌       |            |
| greatest brilliancy | -3171 May 06 j 12:40 | 25°♄25'10 | -4.7m      |                     | -3169 Oct 20 j 12:50 | 0°♌       |            |
| retrograde          | -3171 May 17 j 04:23 | 27°♄26'14 |            |                     |                      |           |            |
| desc. node          | -3171 May 26 j 20:32 | 25°♄36'14 |            | superior conj       | -3169 Nov 01 j 07:11 | 14°♌49'31 | 0°24'04    |
| evening set         | -3171 Jun 01 j 01:43 | 23°♄12'35 |            | minimum elong       | -3169 Nov 01 j 13:30 | 15°♌09'26 | 0°23'45    |
| inferior conj       | -3171 Jun 07 j 12:21 | 19°♄26'06 | -2°41'19   | max. Earth dist.    | -3169 Nov 05 j 00:08 | 19°♌29'26 | 1.71012 AU |
| minimum elong       | -3171 Jun 07 j 06:34 | 19°♄34'57 | 2°39'37    | desc. node          | -3169 Nov 11 j 16:29 | 27°♌53'40 |            |
| min. Earth dist.    | -3171 Jun 07 j 22:35 | 19°♄10'22 | 0.28555 AU |                     | -3169 Nov 13 j 08:42 | 0°♌       |            |
| morning rise        | -3171 Jun 13 j 10:51 | 15°♄54'29 |            |                     | -3169 Dec 07 j 07:13 | 0°♌       |            |
| direct              | -3171 Jun 29 j 03:16 | 11°♄13'15 |            | evening rise        | -3169 Dec 13 j 17:07 | 8°♌00'42  |            |
| greatest brilliancy | -3171 Jul 10 j 05:08 | 13°♄25'57 | -4.8m      |                     | -3169 Dec 31 j 08:55 | 0°♌       |            |
|                     | -3171 Aug 04 j 10:00 | 0°♌       |            |                     | -3168 Jan 24 j 14:50 | 0°♌       |            |
| morning max el      | -3171 Aug 18 j 00:09 | 12°♌39'27 | 46°27'10   |                     | -3168 Feb 18 j 02:58 | 0°♌       |            |
|                     | -3171 Sep 03 j 14:30 | 0°♌       |            | asc. node           | -3168 Mar 03 j 14:15 | 17°♌30'25 |            |
| asc. node           | -3171 Sep 16 j 19:52 | 14°♌47'22 |            |                     | -3168 Mar 14 j 00:19 | 0°♌       |            |
|                     | -3171 Sep 29 j 21:50 | 0°♌       |            |                     | -3168 Apr 08 j 11:12 | 0°♌       |            |
|                     | -3171 Oct 24 j 20:15 | 0°♌       |            |                     | -3168 May 04 j 19:43 | 0°♌       |            |
|                     | -3171 Nov 18 j 05:25 | 0°♌       |            |                     | -3168 Jun 01 j 23:52 | 0°♌       |            |
|                     | -3171 Dec 12 j 10:50 | 0°♌       |            | evening max el      | -3168 Jun 09 j 16:33 | 7°♌34'05  | 45°48'11   |
|                     | -3170 Jan 05 j 16:47 | 0°♌       |            | desc. node          | -3168 Jun 23 j 08:17 | 19°♌53'26 |            |
| desc. node          | -3170 Jan 06 j 14:26 | 1°♌06'51  |            |                     | -3168 Jul 06 j 22:12 | 0°♌       |            |
|                     | -3170 Jan 30 j 00:30 | 0°♌       |            | greatest brilliancy | -3168 Jul 19 j 13:32 | 6°♌13'30  | -4.8m      |
| morning set         | -3170 Feb 22 j 16:56 | 29°♌08'28 |            | retrograde          | -3168 Jul 28 j 20:32 | 7°♌47'20  |            |
|                     | -3170 Feb 23 j 09:42 | 0°♌       |            | evening set         | -3168 Aug 15 j 19:06 | 1°♌51'06  |            |
|                     | -3170 Mar 19 j 19:49 | 0°♌       |            | inferior conj       | -3168 Aug 18 j 18:07 | 0°♌04'26  | -8°55'07   |
|                     |                      |           |            | minimum elong       | -3168 Aug 18 j 17:30 | 0°♌05'22  | 8°55'01    |
| superior conj       | -3170 Mar 31 j 23:15 | 14°♌54'31 | -1°00'07   |                     | -3168 Aug 18 j 21:02 | 30°♌      |            |
| minimum elong       | -3170 Apr 01 j 08:04 | 15°♌21'33 | 0°59'51    | min. Earth dist.    | -3168 Aug 19 j 05:15 | 29°♌47'30 | 0.27306 AU |
| max. Earth dist.    | -3170 Mar 31 j 22:19 | 14°♌51'37 | 1.73673 AU | morning rise        | -3168 Aug 21 j 15:46 | 28°♌19'29 |            |
|                     | -3170 Apr 13 j 06:21 | 0°♌       |            | direct              | -3168 Sep 08 j 15:00 | 22°♌15'47 |            |
| asc. node           | -3170 Apr 29 j 12:30 | 19°♌57'08 |            | greatest brilliancy | -3168 Sep 19 j 11:55 | 24°♌28'22 | -4.9m      |
| evening rise        | -3170 May 07 j 04:24 | 29°♌21'37 |            |                     | -3168 Sep 29 j 21:29 | 0°♌       |            |
|                     | -3170 May 07 j 16:55 | 0°♌       |            | asc. node           | -3168 Oct 14 j 07:18 | 11°♌15'10 |            |
|                     | -3170 Jun 01 j 03:17 | 0°♌       |            | morning max el      | -3168 Oct 29 j 09:50 | 25°♌46'56 | 46°53'03   |
|                     | -3170 Jun 25 j 13:51 | 0°♌       |            |                     | -3168 Nov 02 j 11:20 | 0°♌       |            |
|                     | -3170 Jul 20 j 01:53 | 0°♌       |            |                     | -3168 Nov 29 j 11:54 | 0°♌       |            |
|                     | -3170 Aug 13 j 17:36 | 0°♌       |            |                     | -3168 Dec 25 j 01:00 | 0°♌       |            |
| desc. node          | -3170 Aug 19 j 06:02 | 6°♌40'15  |            |                     | -3167 Jan 19 j 02:29 | 0°♌       |            |
|                     | -3170 Sep 07 j 16:30 | 0°♌       |            | desc. node          | -3167 Feb 03 j 02:20 | 18°♌03'37 |            |
|                     | -3170 Oct 03 j 05:20 | 0°♌       |            |                     | -3167 Feb 12 j 23:48 | 0°♌       |            |
|                     | -3170 Oct 30 j 03:08 | 0°♌       |            |                     | -3167 Mar 09 j 18:54 | 0°♌       |            |
| evening max el      | -3170 Nov 05 j 20:28 | 7°♌01'15  | 47°21'24   |                     | -3167 Apr 03 j 11:56 | 0°♌       |            |
|                     | -3170 Dec 01 j 04:25 | 0°♌       |            |                     | -3167 Apr 28 j 02:23 | 0°♌       |            |
| asc. node           | -3170 Dec 10 j 04:24 | 5°♌54'53  |            | morning set         | -3167 May 01 j 22:00 | 4°♌40'11  |            |
| greatest brilliancy | -3170 Dec 16 j 01:52 | 8°♌44'13  | -4.9m      |                     | -3167 May 22 j 13:37 | 0°♌       |            |
| retrograde          | -3170 Dec 26 j 22:09 | 10°♌59'02 |            | asc. node           | -3167 May 27 j 00:32 | 5°♌29'00  |            |
| evening set         | -3169 Jan 12 j 11:11 | 5°♌29'30  |            | max. Earth dist.    | -3167 Jun 03 j 01:18 | 14°♌09'04 | 1.73225 AU |
| min. Earth dist.    | -3169 Jan 15 j 22:37 | 3°♌19'53  | 0.28112 AU |                     |                      |           |            |
| inferior conj       | -3169 Jan 16 j 22:47 | 2°♌41'28  | 7°31'08    | superior conj       | -3167 Jun 06 j 20:03 | 18°♌49'03 | 0°25'06    |
| minimum elong       | -3169 Jan 16 j 15:03 | 2°♌53'45  | 7°29'59    | minimum elong       | -3167 Jun 06 j 15:16 | 18°♌34'18 | 0°24'58    |
| morning rise        | -3169 Jan 20 j 19:28 | 0°♌17'07  |            |                     | -3167 Jun 15 j 21:10 | 0°♌       |            |
|                     | -3169 Jan 21 j 06:58 | 30°♌      |            |                     | -3167 Jul 10 j 01:22 | 0°♌       |            |
| direct              | -3169 Feb 06 j 21:17 | 24°♌37'22 |            | evening rise        | -3167 Jul 12 j 15:52 | 3°♌14'22  |            |
| greatest brilliancy | -3169 Feb 15 j 14:59 | 26°♌03'13 | -4.8m      |                     | -3167 Aug 03 j 03:29 | 0°♌       |            |
|                     | -3169 Feb 24 j 13:52 | 0°♌       |            |                     | -3167 Aug 27 j 05:27 | 0°♌       |            |
| morning max el      | -3169 Mar 27 j 19:53 | 24°♌48'55 | 45°54'28   | desc. node          | -3167 Sep 15 j 18:17 | 24°♌16'16 |            |
| desc. node          | -3169 Mar 31 j 23:35 | 28°♌50'28 |            |                     | -3167 Sep 20 j 09:12 | 0°♌       |            |
|                     | -3169 Apr 02 j 03:49 | 0°♌       |            |                     | -3167 Oct 14 j 16:30 | 0°♌       |            |
|                     | -3169 Apr 30 j 16:14 | 0°♌       |            |                     | -3167 Nov 08 j 06:15 | 0°♌       |            |
|                     | -3169 May 27 j 05:29 | 0°♌       |            |                     | -3167 Dec 03 j 09:06 | 0°♌       |            |
|                     | -3169 Jun 21 j 18:37 | 0°♌       |            |                     | -3167 Dec 29 j 17:58 | 0°♌       |            |
|                     | -3169 Jul 16 j 15:18 | 0°♌       |            | asc. node           | -3166 Jan 06 j 16:12 | 8°♌30'03  |            |
| asc. node           | -3169 Jul 22 j 22:25 | 7°♌42'25  |            | evening max el      | -3166 Jan 15 j 17:39 | 17°♌46'41 | 46°01'13   |
|                     | -3169 Aug 09 j 23:35 | 0°♌       |            |                     | -3166 Jan 28 j 18:36 | 0°♌       |            |
|                     | -3169 Sep 02 j 23:18 | 0°♌       |            | greatest brilliancy | -3166 Feb 23 j 09:41 | 16°♌58'42 | -4.7m      |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 48

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                       |            |                     |                      |                           |            |
|---------------------|----------------------|-----------------------|------------|---------------------|----------------------|---------------------------|------------|
| retrograde          | -3166 Mar 06 j 02:52 | 19° $\text{X}$ 05'29  |            | minimum elong       | -3164 Aug 14 j 08:44 | 25° $\text{G}$ 42'43      | 1°23'43    |
| evening set         | -3166 Mar 23 j 00:14 | 13° $\text{X}$ 37'14  |            |                     | -3164 Aug 17 j 18:38 | 0° $\text{Q}$             |            |
| inferior conj       | -3166 Mar 27 j 14:25 | 10° $\text{X}$ 46'19  | 6°23'22    |                     | -3164 Sep 10 j 15:02 | 0° $\text{P}$             |            |
| minimum elong       | -3166 Mar 27 j 23:18 | 10° $\text{X}$ 32'11  | 6°21'44    | evening rise        | -3164 Sep 22 j 18:23 | 15° $\text{P}$ 16'24      |            |
| min. Earth dist.    | -3166 Mar 28 j 00:13 | 10° $\text{X}$ 30'44  | 0.29277 AU |                     | -3164 Oct 04 j 11:39 | 0° $\text{Q}$             |            |
| morning rise        | -3166 Apr 01 j 22:19 | 7° $\text{X}$ 28'48   |            | desc. node          | -3164 Oct 13 j 06:24 | 11° $\text{Q}$ 01'08      |            |
| direct              | -3166 Apr 18 j 07:12 | 2° $\text{X}$ 21'03   |            |                     | -3164 Oct 28 j 10:10 | 0° $\text{M}$             |            |
| desc. node          | -3166 Apr 28 j 10:55 | 4° $\text{X}$ 11'45   |            |                     | -3164 Nov 21 j 11:48 | 0° $\text{X}$             |            |
| greatest brilliancy | -3166 Apr 28 j 13:38 | 4° $\text{X}$ 14'07   | -4.7m      |                     | -3164 Dec 15 j 18:21 | 0° $\text{Z}$             |            |
|                     | -3166 Jun 03 j 21:32 | 0° $\text{Y}$         |            |                     | -3163 Jan 09 j 09:31 | 0° $\approx$              |            |
| morning max el      | -3166 Jun 06 j 04:14 | 2° $\text{Y}$ 09'34   | 45°52'11   | asc. node           | -3163 Feb 03 j 04:12 | 29° $\approx$ 24'16       |            |
|                     | -3166 Jul 03 j 02:59 | 0° $\text{B}$         |            |                     | -3163 Feb 03 j 16:29 | 0° $\text{X}$             |            |
|                     | -3166 Jul 29 j 13:41 | 0° $\text{II}$        |            |                     | -3163 Mar 02 j 05:39 | 0° $\text{Y}$             |            |
| asc. node           | -3166 Aug 19 j 10:17 | 24° $\text{II}$ 48'40 |            | evening max el      | -3163 Mar 27 j 14:14 | 26° $\text{Y}$ 05'42      | 45°09'45   |
|                     | -3166 Aug 23 j 17:07 | 0° $\text{G}$         |            |                     | -3163 Mar 31 j 18:20 | 0° $\text{B}$             |            |
|                     | -3166 Sep 17 j 02:36 | 0° $\text{Q}$         |            | greatest brilliancy | -3163 May 04 j 03:19 | 23° $\text{B}$ 14'19      | -4.7m      |
|                     | -3166 Oct 11 j 02:33 | 0° $\text{P}$         |            | retrograde          | -3163 May 14 j 19:57 | 25° $\text{B}$ 15'47      |            |
|                     | -3166 Nov 03 j 23:10 | 0° $\text{Q}$         |            | desc. node          | -3163 May 25 j 22:40 | 22° $\text{B}$ 51'24      |            |
|                     | -3166 Nov 27 j 20:22 | 0° $\text{M}$         |            | evening set         | -3163 May 29 j 16:46 | 21° $\text{B}$ 02'47      |            |
| morning set         | -3166 Dec 07 j 08:25 | 11° $\text{M}$ 54'11  |            | inferior conj       | -3163 Jun 05 j 03:53 | 17° $\text{B}$ 15'01      | -2°21'41   |
| desc. node          | -3166 Dec 09 j 04:30 | 14° $\text{M}$ 12'08  |            | minimum elong       | -3163 Jun 04 j 22:46 | 17° $\text{B}$ 22'53      | 2°20'10    |
|                     | -3166 Dec 21 j 19:59 | 0° $\text{X}$         |            | min. Earth dist.    | -3163 Jun 05 j 14:09 | 16° $\text{B}$ 59'12      | 0.28591 AU |
|                     | -3165 Jan 14 j 22:26 | 0° $\text{Z}$         |            | morning rise        | -3163 Jun 11 j 04:16 | 13° $\text{B}$ 40'38      |            |
|                     |                      |                       |            | direct              | -3163 Jun 26 j 19:51 | 9° $\text{B}$ 01'39       |            |
| superior conj       | -3165 Jan 17 j 21:12 | 3° $\text{Z}$ 39'38   | -1°15'02   | greatest brilliancy | -3163 Jul 07 j 20:19 | 11° $\text{B}$ 13'16      | -4.8m      |
| minimum elong       | -3165 Jan 17 j 12:26 | 3° $\text{Z}$ 12'26   | 1°14'58    |                     | -3163 Aug 04 j 14:43 | 0° $\text{II}$            |            |
| max. Earth dist.    | -3165 Jan 21 j 17:50 | 8° $\text{Z}$ 26'51   | 1.72453 AU | morning max el      | -3163 Aug 15 j 15:34 | 10° $\text{II}$ 24'17     | 46°25'43   |
|                     | -3165 Feb 08 j 03:41 | 0° $\approx$          |            |                     | -3163 Sep 03 j 07:54 | 0° $\text{G}$             |            |
| evening rise        | -3165 Feb 25 j 21:04 | 21° $\approx$ 51'26   |            | asc. node           | -3163 Sep 15 j 22:00 | 14° $\text{G}$ 09'04      |            |
| greatest brilliancy | -3165 Feb 28 j 11:17 | 25° $\approx$ 02'50   | -3.9m      |                     | -3163 Sep 29 j 12:09 | 0° $\text{Q}$             |            |
|                     | -3165 Mar 04 j 11:58 | 0° $\text{X}$         |            |                     | -3163 Oct 24 j 09:12 | 0° $\text{P}$             |            |
|                     | -3165 Mar 28 j 23:48 | 0° $\text{Y}$         |            |                     | -3163 Nov 17 j 17:37 | 0° $\text{Q}$             |            |
| asc. node           | -3165 Apr 01 j 02:23 | 3° $\text{Y}$ 47'32   |            |                     | -3163 Dec 11 j 22:34 | 0° $\text{M}$             |            |
|                     | -3165 Apr 22 j 15:52 | 0° $\text{B}$         |            |                     | -3162 Jan 05 j 04:10 | 0° $\text{X}$             |            |
|                     | -3165 May 17 j 13:12 | 0° $\text{II}$        |            | desc. node          | -3162 Jan 05 j 16:36 | 0° $\text{X}$ 38'24       |            |
|                     | -3165 Jun 11 j 17:56 | 0° $\text{G}$         |            |                     | -3162 Jan 29 j 11:35 | 0° $\text{Z}$             |            |
|                     | -3165 Jul 07 j 11:03 | 0° $\text{Q}$         |            | morning set         | -3162 Feb 20 j 08:24 | 26° $\text{Z}$ 55'05      |            |
| desc. node          | -3165 Jul 21 j 20:04 | 16° $\text{Q}$ 20'17  |            |                     | -3162 Feb 22 j 20:33 | 0° $\approx$              |            |
|                     | -3165 Aug 03 j 04:38 | 0° $\text{P}$         |            |                     | -3162 Mar 19 j 06:30 | 0° $\text{X}$             |            |
| evening max el      | -3165 Aug 23 j 08:26 | 21° $\text{P}$ 04'46  | 47°13'15   |                     |                      |                           |            |
|                     | -3165 Sep 01 j 15:18 | 0° $\text{Q}$         |            | superior conj       | -3162 Mar 29 j 17:16 | 12° $\text{X}$ 49'42      | -1°02'15   |
| greatest brilliancy | -3165 Oct 03 j 11:03 | 22° $\text{Q}$ 06'06  | -4.9m      | minimum elong       | -3162 Mar 30 j 02:06 | 13° $\text{X}$ 16'46      | 1°02'01    |
| retrograde          | -3165 Oct 12 j 21:59 | 23° $\text{Q}$ 48'49  |            | max. Earth dist.    | -3162 Mar 29 j 22:11 | 13° $\text{X}$ 04'47      | 1.73659 AU |
| evening set         | -3165 Oct 27 j 17:13 | 19° $\text{Q}$ 27'42  |            |                     | -3162 Apr 12 j 17:01 | 0° $\text{Y}$             |            |
| inferior conj       | -3165 Nov 02 j 11:31 | 16° $\text{Q}$ 04'05  | -2°22'39   | asc. node           | -3162 Apr 28 j 14:32 | 19° $\text{Y}$ 30'28      |            |
| minimum elong       | -3165 Nov 02 j 16:46 | 15° $\text{Q}$ 56'04  | 2°21'01    | evening rise        | -3162 May 04 j 23:48 | 27° $\text{Y}$ 20'48      |            |
| min. Earth dist.    | -3165 Nov 02 j 06:52 | 16° $\text{Q}$ 11'11  | 0.26365 AU |                     | -3162 May 07 j 03:41 | 0° $\text{B}$             |            |
| morning rise        | -3165 Nov 08 j 16:26 | 12° $\text{Q}$ 26'42  |            |                     | -3162 May 31 j 14:17 | 0° $\text{II}$            |            |
| asc. node           | -3165 Nov 11 j 18:45 | 10° $\text{Q}$ 56'14  |            |                     | -3162 Jun 25 j 01:12 | 0° $\text{G}$             |            |
| direct              | -3165 Nov 22 j 16:16 | 8° $\text{Q}$ 28'52   |            |                     | -3162 Jul 19 j 13:44 | 0° $\text{Q}$             |            |
| greatest brilliancy | -3165 Dec 02 j 16:08 | 10° $\text{Q}$ 23'11  | -4.9m      |                     | -3162 Aug 13 j 06:11 | 0° $\text{P}$             |            |
|                     | -3165 Dec 31 j 07:25 | 0° $\text{M}$         |            | desc. node          | -3162 Aug 18 j 08:10 | 6° $\text{P}$ 08'10       |            |
| morning max el      | -3164 Jan 11 j 18:54 | 10° $\text{M}$ 55'17  | 46°31'47   |                     | -3162 Sep 07 j 06:12 | 0° $\text{Q}$             |            |
|                     | -3164 Jan 30 j 02:41 | 0° $\text{X}$         |            |                     | -3162 Oct 02 j 21:01 | 0° $\text{M}$             |            |
|                     | -3164 Feb 26 j 01:50 | 0° $\text{Z}$         |            |                     | -3162 Oct 29 j 23:26 | 0° $\text{X}$             |            |
| desc. node          | -3164 Mar 02 j 14:10 | 6° $\text{Z}$ 18'00   |            | evening max el      | -3162 Nov 03 j 12:39 | 4° $\text{X}$ 43'26       | 47°23'06   |
|                     | -3164 Mar 23 j 01:15 | 0° $\approx$          |            |                     | -3162 Dec 02 j 01:35 | 0° $\text{Z}$             |            |
|                     | -3164 Apr 17 j 11:58 | 0° $\text{X}$         |            | asc. node           | -3162 Dec 09 j 06:39 | 4° $\text{Z}$ 23'05       |            |
|                     | -3164 May 12 j 13:32 | 0° $\text{Y}$         |            | greatest brilliancy | -3162 Dec 13 j 18:20 | 6° $\text{Z}$ 26'41       | -4.9m      |
|                     | -3164 Jun 06 j 07:00 | 0° $\text{B}$         |            | retrograde          | -3162 Dec 24 j 14:02 | 8° $\text{Z}$ 40'35       |            |
| asc. node           | -3164 Jun 23 j 12:37 | 21° $\text{B}$ 08'30  |            | evening set         | -3161 Jan 09 j 23:38 | 3° $\text{Z}$ 16'30       |            |
|                     | -3164 Jun 30 j 16:52 | 0° $\text{II}$        |            | min. Earth dist.    | -3161 Jan 13 j 13:14 | 1° $\text{Z}$ 03'36       | 0.28032 AU |
| morning set         | -3164 Jul 08 j 05:07 | 9° $\text{II}$ 18'02  |            | inferior conj       | -3161 Jan 14 j 14:05 | 0° $\text{Z}$ 24'03       | 7°21'44    |
|                     | -3164 Jul 24 j 20:06 | 0° $\text{G}$         |            | minimum elong       | -3161 Jan 14 j 05:56 | 0° $\text{Z}$ 37'00       | 7°20'27    |
| max. Earth dist.    | -3164 Aug 11 j 05:31 | 21° $\text{G}$ 46'41  | 1.71567 AU |                     | -3161 Jan 15 j 05:12 | 30° $\text{R}$ $\text{X}$ |            |
|                     |                      |                       |            | morning rise        | -3161 Jan 18 j 12:49 | 27° $\text{X}$ 56'34      |            |
| superior conj       | -3164 Aug 14 j 10:47 | 25° $\text{G}$ 49'11  | 1°23'38    | direct              | -3161 Feb 04 j 12:03 | 22° $\text{X}$ 21'29      |            |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |  |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|--|----------------------|----------------------|------------|
| greatest brilliancy | -3161 Feb 13 j 04:51 | 23° $\text{♁}$ 46'37 | -4.8m      |                     |  | -3159 Aug 02 j 14:44 | 0° $\text{♁}$        |            |
|                     | -3161 Feb 25 j 23:38 | 0° $\text{♁}$        |            |                     |  | -3159 Aug 26 j 17:02 | 0° $\text{♁}$        |            |
| morning max el      | -3161 Mar 25 j 10:26 | 22° $\text{♁}$ 34'44 | 45°55'16   | desc. node          |  | -3159 Sep 14 j 20:16 | 23° $\text{♁}$ 45'37 |            |
| desc. node          | -3161 Mar 31 j 01:33 | 28° $\text{♁}$ 03'52 |            |                     |  | -3159 Sep 19 j 21:09 | 0° $\text{♁}$        |            |
|                     | -3161 Apr 02 j 00:10 | 0° $\text{♁}$        |            |                     |  | -3159 Oct 14 j 04:56 | 0° $\text{♁}$        |            |
|                     | -3161 Apr 30 j 07:16 | 0° $\text{♁}$        |            |                     |  | -3159 Nov 07 j 19:23 | 0° $\text{♁}$        |            |
|                     | -3161 May 26 j 18:29 | 0° $\text{♁}$        |            |                     |  | -3159 Dec 02 j 23:32 | 0° $\text{♁}$        |            |
|                     | -3161 Jun 21 j 06:38 | 0° $\text{♁}$        |            |                     |  | -3159 Dec 29 j 11:28 | 0° $\text{♁}$        |            |
| asc. node           | -3161 Jul 16 j 02:49 | 0° $\text{♁}$        |            | asc. node           |  | -3158 Jan 05 j 18:24 | 7° $\text{♁}$ 45'47  |            |
|                     | -3161 Jul 22 j 00:36 | 7° $\text{♁}$ 14'04  |            | evening max el      |  | -3158 Jan 13 j 08:13 | 15° $\text{♁}$ 29'51 | 46°04'14   |
|                     | -3161 Aug 09 j 10:51 | 0° $\text{♁}$        |            |                     |  | -3158 Jan 29 j 00:08 | 0° $\text{♁}$        |            |
|                     | -3161 Sep 02 j 10:27 | 0° $\text{♁}$        |            | greatest brilliancy |  | -3158 Feb 21 j 02:22 | 14° $\text{♁}$ 50'11 | -4.8m      |
| greatest brilliancy | -3161 Sep 11 j 06:57 | 11° $\text{♁}$ 08'42 | -3.9m      | retrograde          |  | -3158 Mar 03 j 20:07 | 16° $\text{♁}$ 58'02 |            |
| morning set         | -3161 Sep 18 j 22:25 | 20° $\text{♁}$ 47'09 |            | evening set         |  | -3158 Mar 20 j 19:41 | 11° $\text{♁}$ 25'26 |            |
|                     | -3161 Sep 26 j 05:36 | 0° $\text{♁}$        |            | inferior conj       |  | -3158 Mar 25 j 07:28 | 8° $\text{♁}$ 38'10  | 6°35'08    |
|                     | -3161 Oct 19 j 23:57 | 0° $\text{♁}$        |            | minimum elong       |  | -3158 Mar 25 j 16:13 | 8° $\text{♁}$ 24'17  | 6°33'37    |
|                     |                      |                      |            | min. Earth dist.    |  | -3158 Mar 25 j 16:34 | 8° $\text{♁}$ 23'42  | 0.29277 AU |
| superior conj       | -3161 Oct 29 j 16:14 | 12° $\text{♁}$ 11'57 | 0°27'54    | morning rise        |  | -3158 Mar 30 j 12:41 | 5° $\text{♁}$ 24'39  |            |
| minimum elong       | -3161 Oct 29 j 23:26 | 12° $\text{♁}$ 34'37 | 0°27'32    | direct              |  | -3158 Apr 15 j 23:33 | 0° $\text{♁}$ 12'45  |            |
| max. Earth dist.    | -3161 Nov 02 j 04:15 | 16° $\text{♁}$ 36'23 | 1.70984 AU | greatest brilliancy |  | -3158 Apr 26 j 05:36 | 2° $\text{♁}$ 05'38  | -4.7m      |
| desc. node          | -3161 Nov 10 j 18:33 | 27° $\text{♁}$ 25'09 |            | desc. node          |  | -3158 Apr 27 j 13:05 | 2° $\text{♁}$ 34'42  |            |
|                     | -3161 Nov 12 j 19:50 | 0° $\text{♁}$        |            |                     |  | -3158 Jun 03 j 20:24 | 0° $\text{♁}$        |            |
|                     | -3161 Dec 06 j 18:22 | 0° $\text{♁}$        |            | morning max el      |  | -3158 Jun 03 j 20:59 | 0° $\text{♁}$ 01'25  | 45°51'42   |
| evening rise        | -3161 Dec 11 j 02:53 | 5° $\text{♁}$ 26'29  |            |                     |  | -3158 Jul 02 j 18:51 | 0° $\text{♁}$        |            |
|                     | -3161 Dec 30 j 20:06 | 0° $\text{♁}$        |            |                     |  | -3158 Jul 29 j 03:13 | 0° $\text{♁}$        |            |
|                     | -3160 Jan 24 j 02:07 | 0° $\text{♁}$        |            | asc. node           |  | -3158 Aug 18 j 12:23 | 24° $\text{♁}$ 16'55 |            |
|                     | -3160 Feb 17 j 14:30 | 0° $\text{♁}$        |            |                     |  | -3158 Aug 23 j 05:35 | 0° $\text{♁}$        |            |
| asc. node           | -3160 Mar 02 j 16:20 | 17° $\text{♁}$ 01'13 |            |                     |  | -3158 Sep 16 j 14:34 | 0° $\text{♁}$        |            |
|                     | -3160 Mar 13 j 12:23 | 0° $\text{♁}$        |            |                     |  | -3158 Oct 10 j 14:17 | 0° $\text{♁}$        |            |
|                     | -3160 Apr 08 j 00:21 | 0° $\text{♁}$        |            |                     |  | -3158 Nov 03 j 10:44 | 0° $\text{♁}$        |            |
|                     | -3160 May 04 j 11:04 | 0° $\text{♁}$        |            |                     |  | -3158 Nov 27 j 07:48 | 0° $\text{♁}$        |            |
|                     | -3160 Jun 01 j 20:56 | 0° $\text{♁}$        |            | morning set         |  | -3158 Dec 04 j 17:59 | 9° $\text{♁}$ 18'11  |            |
| evening max el      | -3160 Jun 07 j 05:05 | 5° $\text{♁}$ 12'34  | 45°45'23   | desc. node          |  | -3158 Dec 08 j 06:43 | 13° $\text{♁}$ 43'23 |            |
| desc. node          | -3160 Jun 22 j 10:27 | 18° $\text{♁}$ 49'25 |            |                     |  | -3158 Dec 21 j 07:18 | 0° $\text{♁}$        |            |
|                     | -3160 Jul 08 j 10:38 | 0° $\text{♁}$        |            |                     |  | -3157 Jan 14 j 09:38 | 0° $\text{♁}$        |            |
| greatest brilliancy | -3160 Jul 17 j 01:28 | 3° $\text{♁}$ 50'14  | -4.8m      |                     |  |                      |                      |            |
| retrograde          | -3160 Jul 26 j 08:26 | 5° $\text{♁}$ 24'25  |            | superior conj       |  | -3157 Jan 15 j 09:24 | 1° $\text{♁}$ 13'48  | -1°13'19   |
|                     | -3160 Aug 12 j 09:49 | 30° $\text{♁}$       |            | minimum elong       |  | -3157 Jan 15 j 00:02 | 0° $\text{♁}$ 44'45  | 1°13'12    |
| evening set         | -3160 Aug 13 j 06:10 | 29° $\text{♁}$ 30'30 |            | max. Earth dist.    |  | -3157 Jan 19 j 05:47 | 6° $\text{♁}$ 00'27  | 1.72394 AU |
| inferior conj       | -3160 Aug 16 j 07:08 | 27° $\text{♁}$ 41'05 | -8°53'18   |                     |  | -3157 Feb 07 j 14:49 | 0° $\text{♁}$        |            |
| minimum elong       | -3160 Aug 16 j 05:34 | 27° $\text{♁}$ 43'28 | 8°53'11    | evening rise        |  | -3157 Feb 23 j 12:26 | 19° $\text{♁}$ 36'52 |            |
| min. Earth dist.    | -3160 Aug 16 j 18:27 | 27° $\text{♁}$ 23'54 | 0.27359 AU | greatest brilliancy |  | -3157 Feb 26 j 09:44 | 23° $\text{♁}$ 10'05 | -3.9m      |
| morning rise        | -3160 Aug 19 j 04:48 | 25° $\text{♁}$ 56'05 |            |                     |  | -3157 Mar 03 j 23:06 | 0° $\text{♁}$        |            |
| direct              | -3160 Sep 06 j 04:12 | 19° $\text{♁}$ 51'16 |            |                     |  | -3157 Mar 28 j 11:04 | 0° $\text{♁}$        |            |
| greatest brilliancy | -3160 Sep 17 j 02:49 | 22° $\text{♁}$ 04'58 | -4.9m      | asc. node           |  | -3157 Mar 31 j 04:27 | 3° $\text{♁}$ 19'23  |            |
|                     | -3160 Sep 30 j 23:27 | 0° $\text{♁}$        |            |                     |  | -3157 Apr 22 j 03:27 | 0° $\text{♁}$        |            |
| asc. node           | -3160 Oct 13 j 09:21 | 10° $\text{♁}$ 10'43 |            |                     |  | -3157 May 17 j 01:21 | 0° $\text{♁}$        |            |
| morning max el      | -3160 Oct 26 j 22:23 | 23° $\text{♁}$ 17'42 | 46°53'01   |                     |  | -3157 Jun 11 j 07:04 | 0° $\text{♁}$        |            |
|                     | -3160 Nov 02 j 08:20 | 0° $\text{♁}$        |            |                     |  | -3157 Jul 07 j 01:54 | 0° $\text{♁}$        |            |
|                     | -3160 Nov 29 j 03:53 | 0° $\text{♁}$        |            | desc. node          |  | -3157 Jul 20 j 22:13 | 15° $\text{♁}$ 40'35 |            |
|                     | -3160 Dec 24 j 14:54 | 0° $\text{♁}$        |            |                     |  | -3157 Aug 02 j 23:02 | 0° $\text{♁}$        |            |
|                     | -3159 Jan 18 j 15:13 | 0° $\text{♁}$        |            | evening max el      |  | -3157 Aug 20 j 22:16 | 18° $\text{♁}$ 40'59 | 47°10'56   |
| desc. node          | -3159 Feb 02 j 04:27 | 17° $\text{♁}$ 33'02 |            |                     |  | -3157 Sep 01 j 20:56 | 0° $\text{♁}$        |            |
|                     | -3159 Feb 12 j 11:47 | 0° $\text{♁}$        |            | greatest brilliancy |  | -3157 Sep 30 j 23:50 | 19° $\text{♁}$ 35'40 | -4.9m      |
|                     | -3159 Mar 09 j 06:23 | 0° $\text{♁}$        |            | retrograde          |  | -3157 Oct 10 j 10:48 | 21° $\text{♁}$ 18'06 |            |
|                     | -3159 Apr 02 j 23:05 | 0° $\text{♁}$        |            | evening set         |  | -3157 Oct 25 j 07:32 | 16° $\text{♁}$ 54'15 |            |
|                     | -3159 Apr 27 j 13:19 | 0° $\text{♁}$        |            | inferior conj       |  | -3157 Oct 30 j 23:41 | 13° $\text{♁}$ 33'44 | -2°46'13   |
| morning set         | -3159 Apr 29 j 17:01 | 2° $\text{♁}$ 38'05  |            | minimum elong       |  | -3157 Oct 31 j 05:44 | 13° $\text{♁}$ 24'30 | 2°44'22    |
|                     | -3159 May 22 j 00:27 | 0° $\text{♁}$        |            | min. Earth dist.    |  | -3157 Oct 30 j 20:06 | 13° $\text{♁}$ 39'12 | 0.26361 AU |
| asc. node           | -3159 May 26 j 02:45 | 5° $\text{♁}$ 02'28  |            | morning rise        |  | -3157 Nov 06 j 04:07 | 9° $\text{♁}$ 57'35  |            |
| max. Earth dist.    | -3159 May 31 j 22:52 | 12° $\text{♁}$ 14'08 | 1.73270 AU | asc. node           |  | -3157 Nov 10 j 21:02 | 7° $\text{♁}$ 47'32  |            |
|                     |                      |                      |            | direct              |  | -3157 Nov 20 j 05:03 | 5° $\text{♁}$ 58'43  |            |
| superior conj       | -3159 Jun 04 j 15:03 | 16° $\text{♁}$ 46'07 | 0°22'10    | greatest brilliancy |  | -3157 Nov 30 j 05:28 | 7° $\text{♁}$ 54'08  | -4.9m      |
| minimum elong       | -3159 Jun 04 j 10:47 | 16° $\text{♁}$ 32'58 | 0°22'03    |                     |  | -3157 Dec 31 j 12:30 | 0° $\text{♁}$        |            |
|                     | -3159 Jun 15 j 08:02 | 0° $\text{♁}$        |            | morning max el      |  | -3156 Jan 09 j 09:35 | 8° $\text{♁}$ 33'45  | 46°33'05   |
|                     | -3159 Jul 09 j 12:22 | 0° $\text{♁}$        |            |                     |  | -3156 Jan 29 j 20:53 | 0° $\text{♁}$        |            |
| evening rise        | -3159 Jul 10 j 09:54 | 1° $\text{♁}$ 06'57  |            |                     |  | -3156 Feb 25 j 16:36 | 0° $\text{♁}$        |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                  |            |                     |                      |                                  |            |
|---------------------|----------------------|----------------------------------|------------|---------------------|----------------------|----------------------------------|------------|
| desc. node          | -3156 Mar 01 j 16:10 | 5° $\text{Z}$ 42'39              |            | evening max el      | -3154 Nov 01 j 03:51 | 2° $\text{X}$ 22'32              | 47°24'39   |
|                     | -3156 Mar 22 j 14:21 | 0° $\approx$                     |            |                     | -3154 Dec 03 j 07:03 | 0° $\text{Z}$                    |            |
|                     | -3156 Apr 17 j 00:07 | 0° $\text{X}$                    |            | asc. node           | -3154 Dec 08 j 08:44 | 2° $\text{Z}$ 47'14              |            |
|                     | -3156 May 12 j 01:07 | 0° $\text{Y}$                    |            | greatest brilliancy | -3154 Dec 11 j 11:06 | 4° $\text{Z}$ 08'50              | -4.9m      |
|                     | -3156 Jun 05 j 18:17 | 0° $\text{X}$                    |            | retrograde          | -3154 Dec 22 j 05:20 | 6° $\text{Z}$ 21'27              |            |
| asc. node           | -3156 Jun 22 j 14:47 | 20° $\text{X}$ 40'43             |            | evening set         | -3153 Jan 07 j 12:04 | 1° $\text{Z}$ 02'48              |            |
|                     | -3156 Jun 30 j 04:00 | 0° $\text{II}$                   |            |                     | -3153 Jan 09 j 05:19 | 30° $\text{R}$ $\text{X}$        |            |
| morning set         | -3156 Jul 05 j 22:25 | 7° $\text{II}$ 08'26             |            | min. Earth dist.    | -3153 Jan 11 j 04:13 | 28° $\text{X}$ 46'09             | 0.27957 AU |
|                     | -3156 Jul 24 j 07:12 | 0° $\text{G}$                    |            | inferior conj       | -3153 Jan 12 j 05:24 | 28° $\text{X}$ 06'03             | 7°11'39    |
| max. Earth dist.    | -3156 Aug 08 j 16:24 | 19° $\text{G}$ 15'22             | 1.71618 AU | minimum elong       | -3153 Jan 11 j 20:54 | 28° $\text{X}$ 19'36             | 7°10'11    |
|                     |                      |                                  |            | morning rise        | -3153 Jan 16 j 06:19 | 25° $\text{X}$ 35'12             |            |
| superior conj       | -3156 Aug 12 j 02:11 | 23° $\text{G}$ 31'54             | 1°23'11    | direct              | -3153 Feb 02 j 02:29 | 20° $\text{X}$ 04'50             |            |
| minimum elong       | -3156 Aug 11 j 23:23 | 23° $\text{G}$ 23'05             | 1°23'16    | greatest brilliancy | -3153 Feb 10 j 19:26 | 21° $\text{X}$ 29'53             | -4.8m      |
|                     | -3156 Aug 17 j 05:48 | 0° $\Omega$                      |            |                     | -3153 Feb 27 j 00:10 | 0° $\text{Z}$                    |            |
|                     | -3156 Sep 10 j 02:17 | 0° $\text{M}$                    |            | morning max el      | -3153 Mar 23 j 00:17 | 20° $\text{Z}$ 17'47             | 45°56'02   |
| evening rise        | -3156 Sep 20 j 05:32 | 12° $\text{M}$ 44'59             |            | desc. node          | -3153 Mar 30 j 03:43 | 27° $\text{Z}$ 17'33             |            |
|                     | -3156 Oct 03 j 23:03 | 0° $\underline{\text{A}}$        |            |                     | -3153 Apr 01 j 20:16 | 0° $\approx$                     |            |
| desc. node          | -3156 Oct 12 j 08:32 | 10° $\underline{\text{A}}$ 31'51 |            |                     | -3153 Apr 29 j 22:27 | 0° $\text{X}$                    |            |
|                     | -3156 Oct 27 j 21:45 | 0° $\text{M}$                    |            |                     | -3153 May 26 j 07:40 | 0° $\text{Y}$                    |            |
|                     | -3156 Nov 20 j 23:37 | 0° $\text{X}$                    |            |                     | -3153 Jun 20 j 18:51 | 0° $\text{X}$                    |            |
|                     | -3156 Dec 15 j 06:29 | 0° $\text{Z}$                    |            |                     | -3153 Jul 15 j 14:29 | 0° $\text{II}$                   |            |
|                     | -3155 Jan 08 j 22:12 | 0° $\approx$                     |            | asc. node           | -3153 Jul 21 j 02:39 | 6° $\text{II}$ 44'47             |            |
| asc. node           | -3155 Feb 02 j 06:16 | 28° $\approx$ 50'14              |            |                     | -3153 Aug 08 j 22:15 | 0° $\text{G}$                    |            |
|                     | -3155 Feb 03 j 06:18 | 0° $\text{X}$                    |            |                     | -3153 Sep 01 j 21:44 | 0° $\Omega$                      |            |
|                     | -3155 Mar 01 j 22:08 | 0° $\text{Y}$                    |            | greatest brilliancy | -3153 Sep 10 j 10:26 | 10° $\Omega$ 44'08               | -3.9m      |
| evening max el      | -3155 Mar 25 j 06:33 | 23° $\text{Y}$ 55'55             | 45°10'10   | morning set         | -3153 Sep 16 j 10:43 | 18° $\Omega$ 18'58               |            |
|                     | -3155 Mar 31 j 19:40 | 0° $\text{X}$                    |            |                     | -3153 Sep 25 j 16:53 | 0° $\text{M}$                    |            |
| greatest brilliancy | -3155 May 01 j 18:48 | 21° $\text{X}$ 03'44             | -4.7m      |                     | -3153 Oct 19 j 11:14 | 0° $\underline{\text{A}}$        |            |
| retrograde          | -3155 May 12 j 11:17 | 23° $\text{X}$ 04'54             |            |                     |                      |                                  |            |
| desc. node          | -3155 May 25 j 00:52 | 20° $\text{X}$ 02'04             |            | superior conj       | -3153 Oct 27 j 01:35 | 9° $\underline{\text{A}}$ 34'44  | 0°31'38    |
| evening set         | -3155 May 27 j 08:13 | 18° $\text{X}$ 52'23             |            | minimum elong       | -3153 Oct 27 j 09:36 | 9° $\underline{\text{A}}$ 59'59  | 0°31'15    |
| inferior conj       | -3155 Jun 02 j 19:38 | 15° $\text{X}$ 03'40             | -2°02'09   | max. Earth dist.    | -3153 Oct 30 j 05:01 | 13° $\underline{\text{A}}$ 32'15 | 1.70958 AU |
| minimum elong       | -3155 Jun 02 j 15:12 | 15° $\text{X}$ 10'30             | 2°00'48    | desc. node          | -3153 Nov 09 j 20:46 | 26° $\underline{\text{A}}$ 56'39 |            |
| min. Earth dist.    | -3155 Jun 03 j 06:09 | 14° $\text{X}$ 47'25             | 0.28624 AU |                     | -3153 Nov 12 j 07:07 | 0° $\text{M}$                    |            |
| morning rise        | -3155 Jun 08 j 21:41 | 11° $\text{X}$ 26'30             |            |                     | -3153 Dec 06 j 05:38 | 0° $\text{X}$                    |            |
| direct              | -3155 Jun 24 j 12:22 | 6° $\text{X}$ 49'48              |            | evening rise        | -3153 Dec 08 j 12:48 | 2° $\text{X}$ 52'21              |            |
| greatest brilliancy | -3155 Jul 05 j 11:48 | 9° $\text{X}$ 00'16              | -4.8m      |                     | -3153 Dec 30 j 07:23 | 0° $\text{Z}$                    |            |
|                     | -3155 Aug 04 j 18:04 | 0° $\text{II}$                   |            |                     | -3152 Jan 23 j 13:31 | 0° $\approx$                     |            |
| morning max el      | -3155 Aug 13 j 06:19 | 8° $\text{II}$ 06'43             | 46°24'21   |                     | -3152 Feb 17 j 02:12 | 0° $\text{X}$                    |            |
|                     | -3155 Sep 03 j 01:15 | 0° $\text{G}$                    |            | asc. node           | -3152 Mar 01 j 18:23 | 16° $\text{X}$ 31'27             |            |
| asc. node           | -3155 Sep 15 j 00:01 | 13° $\text{G}$ 29'58             |            |                     | -3152 Mar 13 j 00:40 | 0° $\text{Y}$                    |            |
|                     | -3155 Sep 29 j 02:34 | 0° $\Omega$                      |            |                     | -3152 Apr 07 j 13:45 | 0° $\text{X}$                    |            |
|                     | -3155 Oct 23 j 22:18 | 0° $\text{M}$                    |            |                     | -3152 May 04 j 02:50 | 0° $\text{II}$                   |            |
|                     | -3155 Nov 17 j 06:01 | 0° $\underline{\text{A}}$        |            |                     | -3152 Jun 01 j 18:56 | 0° $\text{G}$                    |            |
|                     | -3155 Dec 11 j 10:32 | 0° $\text{M}$                    |            | evening max el      | -3152 Jun 04 j 17:43 | 2° $\text{G}$ 51'11              | 45°42'53   |
| desc. node          | -3154 Jan 04 j 18:40 | 0° $\text{X}$ 08'45              |            | desc. node          | -3152 Jun 21 j 12:33 | 17° $\text{G}$ 43'21             |            |
|                     | -3154 Jan 04 j 15:50 | 0° $\text{X}$                    |            |                     | -3152 Jul 10 j 18:13 | 0° $\Omega$                      |            |
|                     | -3154 Jan 28 j 23:01 | 0° $\text{Z}$                    |            | greatest brilliancy | -3152 Jul 14 j 13:03 | 1° $\Omega$ 26'54                | -4.8m      |
| morning set         | -3154 Feb 17 j 23:26 | 24° $\text{Z}$ 39'12             |            | retrograde          | -3152 Jul 23 j 21:04 | 3° $\Omega$ 02'13                |            |
|                     | -3154 Feb 22 j 07:45 | 0° $\approx$                     |            |                     | -3152 Aug 05 j 09:56 | 30° $\text{R}$ $\text{G}$        |            |
|                     | -3154 Mar 18 j 17:34 | 0° $\text{X}$                    |            | evening set         | -3152 Aug 10 j 16:57 | 27° $\text{G}$ 10'56             |            |
|                     |                      |                                  |            | inferior conj       | -3152 Aug 13 j 20:19 | 25° $\text{G}$ 18'12             | -8°50'36   |
| superior conj       | -3154 Mar 27 j 10:56 | 10° $\text{X}$ 42'40             | -1°04'20   | minimum elong       | -3152 Aug 13 j 17:49 | 25° $\text{G}$ 22'00             | 8°50'25    |
| minimum elong       | -3154 Mar 27 j 19:42 | 11° $\text{X}$ 09'36             | 1°04'06    | min. Earth dist.    | -3152 Aug 14 j 07:30 | 25° $\text{G}$ 01'16             | 0.27412 AU |
| max. Earth dist.    | -3154 Mar 27 j 20:22 | 11° $\text{X}$ 11'39             | 1.73637 AU | morning rise        | -3152 Aug 16 j 18:30 | 23° $\text{G}$ 32'35             |            |
|                     | -3154 Apr 12 j 04:01 | 0° $\text{Y}$                    |            | direct              | -3152 Sep 03 j 17:44 | 17° $\text{G}$ 27'14             |            |
| asc. node           | -3154 Apr 27 j 16:45 | 19° $\text{Y}$ 03'23             |            | greatest brilliancy | -3152 Sep 14 j 17:40 | 19° $\text{G}$ 42'04             | -4.9m      |
| evening rise        | -3154 May 02 j 18:54 | 25° $\text{Y}$ 18'08             |            |                     | -3152 Oct 01 j 18:31 | 0° $\Omega$                      |            |
|                     | -3154 May 06 j 14:46 | 0° $\text{X}$                    |            | asc. node           | -3152 Oct 12 j 11:38 | 9° $\Omega$ 08'25                |            |
|                     | -3154 May 31 j 01:35 | 0° $\text{II}$                   |            | morning max el      | -3152 Oct 24 j 11:57 | 20° $\Omega$ 51'08               | 46°52'53   |
|                     | -3154 Jun 24 j 12:51 | 0° $\text{G}$                    |            |                     | -3152 Nov 02 j 04:42 | 0° $\text{M}$                    |            |
|                     | -3154 Jul 19 j 01:54 | 0° $\Omega$                      |            |                     | -3152 Nov 28 j 19:40 | 0° $\underline{\text{A}}$        |            |
|                     | -3154 Aug 12 j 19:06 | 0° $\text{M}$                    |            |                     | -3152 Dec 24 j 04:42 | 0° $\text{M}$                    |            |
| desc. node          | -3154 Aug 17 j 10:10 | 5° $\text{M}$ 34'43              |            |                     | -3151 Jan 18 j 03:54 | 0° $\text{X}$                    |            |
|                     | -3154 Sep 06 j 20:16 | 0° $\underline{\text{A}}$        |            | desc. node          | -3151 Feb 01 j 06:30 | 17° $\text{X}$ 02'16             |            |
|                     | -3154 Oct 02 j 13:09 | 0° $\text{M}$                    |            |                     | -3151 Feb 11 j 23:44 | 0° $\text{Z}$                    |            |
|                     | -3154 Oct 29 j 20:34 | 0° $\text{X}$                    |            |                     | -3151 Mar 08 j 17:51 | 0° $\approx$                     |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                       |            |                     |                      |                       |            |
|---------------------|----------------------|-----------------------|------------|---------------------|----------------------|-----------------------|------------|
|                     | -3151 Apr 02 j 10:13 | 0° $\text{H}$         |            | greatest brilliancy | -3149 Sep 28 j 12:29 | 17° $\text{H}05'43$   | -4.9m      |
| morning set         | -3151 Apr 27 j 11:54 | 0° $\text{Y}35'34$    |            | retrograde          | -3149 Oct 07 j 23:30 | 18° $\text{H}47'34$   |            |
|                     | -3151 Apr 27 j 00:17 | 0° $\text{Y}$         |            | evening set         | -3149 Oct 22 j 21:58 | 14° $\text{H}21'10$   |            |
|                     | -3151 May 21 j 11:20 | 0° $\text{B}$         |            | inferior conj       | -3149 Oct 28 j 11:45 | 11° $\text{H}03'49$   | -3°09'33   |
| asc. node           | -3151 May 25 j 04:54 | 4° $\text{B}35'33$    |            | minimum elong       | -3149 Oct 28 j 18:34 | 10° $\text{H}53'25$   | 3°07'29    |
| max. Earth dist.    | -3151 May 29 j 21:19 | 10° $\text{B}21'50$   | 1.73313 AU | min. Earth dist.    | -3149 Oct 28 j 09:07 | 11° $\text{H}07'50$   | 0.26356 AU |
|                     |                      |                       |            | morning rise        | -3149 Nov 03 j 15:24 | 7° $\text{H}29'04$    |            |
| superior conj       | -3151 Jun 02 j 09:52 | 14° $\text{B}42'33$   | 0°19'11    | asc. node           | -3149 Nov 09 j 23:08 | 4° $\text{H}44'53$    |            |
| minimum elong       | -3151 Jun 02 j 06:09 | 14° $\text{B}31'05$   | 0°19'05    | direct              | -3149 Nov 17 j 17:54 | 3° $\text{H}29'14$    |            |
|                     | -3151 Jun 14 j 18:55 | 0° $\text{II}$        |            | greatest brilliancy | -3149 Nov 27 j 18:23 | 5° $\text{H}25'08$    | -4.9m      |
| evening rise        | -3151 Jul 08 j 03:51 | 28° $\text{II}59'21$  |            |                     | -3149 Dec 31 j 15:31 | 0° $\text{III}$       |            |
|                     | -3151 Jul 08 j 23:23 | 0° $\text{B}$         |            | morning max el      | -3148 Jan 06 j 23:31 | 6° $\text{III}11'01$  | 46°34'15   |
|                     | -3151 Aug 02 j 01:58 | 0° $\text{H}$         |            |                     | -3148 Jan 29 j 14:23 | 0° $\text{H}$         |            |
|                     | -3151 Aug 26 j 04:35 | 0° $\text{III}$       |            |                     | -3148 Feb 25 j 06:56 | 0° $\text{B}$         |            |
| desc. node          | -3151 Sep 13 j 22:25 | 23° $\text{III}15'37$ |            | desc. node          | -3148 Feb 29 j 18:18 | 5° $\text{B}08'37$    |            |
|                     | -3151 Sep 19 j 09:05 | 0° $\text{H}$         |            |                     | -3148 Mar 22 j 03:06 | 0° $\text{H}$         |            |
|                     | -3151 Oct 13 j 17:22 | 0° $\text{III}$       |            |                     | -3148 Apr 16 j 11:58 | 0° $\text{H}$         |            |
|                     | -3151 Nov 07 j 08:34 | 0° $\text{H}$         |            |                     | -3148 May 11 j 12:24 | 0° $\text{Y}$         |            |
|                     | -3151 Dec 02 j 14:06 | 0° $\text{B}$         |            |                     | -3148 Jun 05 j 05:14 | 0° $\text{B}$         |            |
|                     | -3151 Dec 29 j 05:17 | 0° $\text{H}$         |            | asc. node           | -3148 Jun 21 j 16:50 | 20° $\text{B}13'32$   |            |
| asc. node           | -3150 Jan 04 j 20:29 | 7° $\text{H}00'48$    |            |                     | -3148 Jun 29 j 14:50 | 0° $\text{II}$        |            |
| evening max el      | -3150 Jan 10 j 23:36 | 13° $\text{H}15'12$   | 46°07'19   | morning set         | -3148 Jul 03 j 15:42 | 4° $\text{III}59'46$  |            |
|                     | -3150 Jan 29 j 07:49 | 0° $\text{H}$         |            |                     | -3148 Jul 23 j 18:03 | 0° $\text{B}$         |            |
| greatest brilliancy | -3150 Feb 18 j 18:36 | 12° $\text{H}41'25$   | -4.8m      | max. Earth dist.    | -3148 Aug 06 j 01:58 | 16° $\text{B}40'49$   | 1.71677 AU |
| retrograde          | -3150 Mar 01 j 13:47 | 14° $\text{H}50'41$   |            |                     |                      |                       |            |
| evening set         | -3150 Mar 18 j 15:03 | 9° $\text{H}13'52$    |            | superior conj       | -3148 Aug 09 j 17:32 | 21° $\text{B}15'19$   | 1°22'36    |
| inferior conj       | -3150 Mar 23 j 00:28 | 6° $\text{H}30'07$    | 6°46'24    | minimum elong       | -3148 Aug 09 j 14:00 | 21° $\text{B}04'15$   | 1°22'40    |
| minimum elong       | -3150 Mar 23 j 09:00 | 6° $\text{H}16'33$    | 6°44'59    |                     | -3148 Aug 16 j 16:43 | 0° $\text{H}$         |            |
| min. Earth dist.    | -3150 Mar 23 j 08:27 | 6° $\text{H}17'26$    | 0.29275 AU |                     | -3148 Sep 09 j 13:20 | 0° $\text{III}$       |            |
| morning rise        | -3150 Mar 28 j 02:58 | 3° $\text{H}20'47$    |            | evening rise        | -3148 Sep 17 j 16:28 | 10° $\text{III}13'29$ |            |
|                     | -3150 Apr 03 j 20:49 | 30° $\text{H}00'00$   |            |                     | -3148 Oct 03 j 10:14 | 0° $\text{H}$         |            |
| direct              | -3150 Apr 13 j 16:17 | 28° $\text{H}04'45$   |            | desc. node          | -3148 Oct 11 j 10:42 | 10° $\text{H}03'25$   |            |
| greatest brilliancy | -3150 Apr 23 j 20:55 | 29° $\text{H}56'50$   | -4.7m      |                     | -3148 Oct 27 j 09:06 | 0° $\text{III}$       |            |
|                     | -3150 Apr 24 j 00:31 | 0° $\text{H}$         |            |                     | -3148 Nov 20 j 11:10 | 0° $\text{H}$         |            |
| desc. node          | -3150 Apr 26 j 15:17 | 1° $\text{H}01'21$    |            |                     | -3148 Dec 14 j 18:21 | 0° $\text{B}$         |            |
| morning max el      | -3150 Jun 01 j 14:13 | 27° $\text{H}54'48$   | 45°51'05   |                     | -3147 Jan 08 j 10:38 | 0° $\text{H}$         |            |
|                     | -3150 Jun 03 j 18:15 | 0° $\text{Y}$         |            | asc. node           | -3147 Feb 01 j 08:22 | 28° $\text{H}17'00$   |            |
|                     | -3150 Jul 02 j 10:25 | 0° $\text{B}$         |            |                     | -3147 Feb 02 j 19:55 | 0° $\text{H}$         |            |
|                     | -3150 Jul 28 j 16:34 | 0° $\text{II}$        |            |                     | -3147 Mar 01 j 14:35 | 0° $\text{Y}$         |            |
| asc. node           | -3150 Aug 17 j 14:31 | 23° $\text{II}45'34$  |            | evening max el      | -3147 Mar 22 j 22:05 | 21° $\text{Y}45'06$   | 45°10'39   |
|                     | -3150 Aug 22 j 17:56 | 0° $\text{B}$         |            |                     | -3147 Mar 31 j 21:59 | 0° $\text{B}$         |            |
|                     | -3150 Sep 16 j 02:23 | 0° $\text{H}$         |            | greatest brilliancy | -3147 Apr 29 j 10:50 | 18° $\text{B}54'49$   | -4.7m      |
|                     | -3150 Oct 10 j 01:49 | 0° $\text{III}$       |            | retrograde          | -3147 May 10 j 02:22 | 20° $\text{B}55'21$   |            |
|                     | -3150 Nov 02 j 22:06 | 0° $\text{H}$         |            | desc. node          | -3147 May 24 j 02:52 | 17° $\text{B}10'21$   |            |
|                     | -3150 Nov 26 j 19:02 | 0° $\text{III}$       |            | evening set         | -3147 May 24 j 23:51 | 16° $\text{B}42'57$   |            |
| morning set         | -3150 Dec 02 j 03:34 | 6° $\text{III}42'45$  |            | inferior conj       | -3147 May 31 j 11:27 | 12° $\text{B}53'43$   | -1°42'30   |
| desc. node          | -3150 Dec 07 j 08:43 | 13° $\text{III}14'36$ |            | minimum elong       | -3147 May 31 j 07:43 | 12° $\text{B}59'30$   | 1°41'21    |
|                     | -3150 Dec 20 j 18:26 | 0° $\text{H}$         |            | min. Earth dist.    | -3147 May 31 j 22:32 | 12° $\text{B}36'34$   | 0.28656 AU |
|                     |                      |                       |            | morning rise        | -3147 Jun 06 j 15:01 | 9° $\text{B}13'55$    |            |
| superior conj       | -3149 Jan 12 j 21:24 | 28° $\text{H}47'41$   | -1°11'27   | direct              | -3147 Jun 22 j 04:19 | 4° $\text{B}39'18$    |            |
| minimum elong       | -3149 Jan 12 j 11:30 | 28° $\text{H}16'57$   | 1°11'17    | greatest brilliancy | -3147 Jul 03 j 03:43 | 6° $\text{B}49'06$    | -4.8m      |
|                     | -3149 Jan 13 j 20:40 | 0° $\text{B}$         |            |                     | -3147 Aug 04 j 19:27 | 0° $\text{II}$        |            |
| max. Earth dist.    | -3149 Jan 16 j 18:57 | 3° $\text{B}38'11$    | 1.72337 AU | morning max el      | -3147 Aug 10 j 20:14 | 5° $\text{II}48'17$   | 46°22'52   |
|                     | -3149 Feb 07 j 01:47 | 0° $\text{H}$         |            |                     | -3147 Sep 02 j 17:55 | 0° $\text{B}$         |            |
| evening rise        | -3149 Feb 21 j 03:45 | 17° $\text{H}22'34$   |            | asc. node           | -3147 Sep 14 j 02:18 | 12° $\text{B}52'50$   |            |
| greatest brilliancy | -3149 Feb 24 j 21:45 | 21° $\text{H}59'32$   | -3.9m      |                     | -3147 Sep 28 j 16:34 | 0° $\text{H}$         |            |
|                     | -3149 Mar 03 j 10:03 | 0° $\text{H}$         |            |                     | -3147 Oct 23 j 11:06 | 0° $\text{III}$       |            |
|                     | -3149 Mar 27 j 22:08 | 0° $\text{Y}$         |            |                     | -3147 Nov 16 j 18:09 | 0° $\text{H}$         |            |
| asc. node           | -3149 Mar 30 j 06:43 | 2° $\text{Y}52'26$    |            |                     | -3147 Dec 10 j 22:13 | 0° $\text{III}$       |            |
|                     | -3149 Apr 21 j 14:51 | 0° $\text{B}$         |            | desc. node          | -3146 Jan 03 j 20:45 | 29° $\text{III}40'02$ |            |
|                     | -3149 May 16 j 13:22 | 0° $\text{II}$        |            |                     | -3146 Jan 04 j 03:12 | 0° $\text{H}$         |            |
|                     | -3149 Jun 10 j 20:08 | 0° $\text{B}$         |            |                     | -3146 Jan 28 j 10:05 | 0° $\text{B}$         |            |
|                     | -3149 Jul 06 j 16:48 | 0° $\text{H}$         |            | morning set         | -3146 Feb 15 j 14:06 | 22° $\text{B}23'09$   |            |
| desc. node          | -3149 Jul 20 j 00:13 | 15° $\text{H}00'25$   |            |                     | -3146 Feb 21 j 18:37 | 0° $\text{H}$         |            |
|                     | -3149 Aug 02 j 17:45 | 0° $\text{III}$       |            |                     | -3146 Mar 18 j 04:18 | 0° $\text{H}$         |            |
| evening max el      | -3149 Aug 18 j 12:38 | 16° $\text{III}18'57$ | 47°08'33   |                     |                      |                       |            |
|                     | -3149 Sep 02 j 04:34 | 0° $\text{H}$         |            | superior conj       | -3146 Mar 25 j 04:28 | 8° $\text{H}36'14$    | -1°06'21   |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 52

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                |            |                     |                      |                          |            |
|---------------------|----------------------|--------------------------------|------------|---------------------|----------------------|--------------------------|------------|
| minimum elong       | -3146 Mar 25 j 13:08 | 9° $\text{H}$ 02'51            | 1°06'07    | min. Earth dist.    | -3144 Aug 11 j 20:13 | 22° $\text{G}$ 40'05     | 0.27461 AU |
| max. Earth dist.    | -3146 Mar 25 j 16:49 | 9° $\text{H}$ 14'09            | 1.73615 AU | morning rise        | -3144 Aug 14 j 08:41 | 21° $\text{G}$ 09'24     |            |
|                     | -3146 Apr 11 j 14:44 | 0° $\text{Y}$                  |            | direct              | -3144 Sep 01 j 07:44 | 15° $\text{G}$ 04'20     |            |
| asc. node           | -3146 Apr 26 j 18:50 | 18° $\text{Y}$ 36'48           |            | greatest brilliancy | -3144 Sep 12 j 07:49 | 17° $\text{G}$ 19'33     | -4.9m      |
| evening rise        | -3146 Apr 30 j 13:56 | 23° $\text{Y}$ 16'13           |            |                     | -3144 Oct 02 j 08:18 | 0° $\Omega$              |            |
|                     | -3146 May 06 j 01:33 | 0° $\text{B}$                  |            | asc. node           | -3144 Oct 11 j 13:42 | 8° $\Omega$ 08'04        |            |
|                     | -3146 May 30 j 12:34 | 0° $\text{II}$                 |            | morning max el      | -3144 Oct 22 j 02:22 | 18° $\Omega$ 27'56       | 46°52'42   |
|                     | -3146 Jun 24 j 00:10 | 0° $\text{G}$                  |            |                     | -3144 Nov 02 j 00:06 | 0° $\text{M}$            |            |
|                     | -3146 Jul 18 j 13:45 | 0° $\Omega$                    |            |                     | -3144 Nov 28 j 10:57 | 0° $\underline{\Omega}$  |            |
|                     | -3146 Aug 12 j 07:45 | 0° $\text{M}$                  |            |                     | -3144 Dec 23 j 18:11 | 0° $\text{M}$            |            |
| desc. node          | -3146 Aug 16 j 12:21 | 5° $\text{M}$ 02'42            |            |                     | -3143 Jan 17 j 16:22 | 0° $\text{A}$            |            |
|                     | -3146 Sep 06 j 10:10 | 0° $\underline{\Omega}$        |            | desc. node          | -3143 Jan 31 j 08:39 | 16° $\text{A}$ 32'13     |            |
|                     | -3146 Oct 02 j 05:18 | 0° $\text{M}$                  |            |                     | -3143 Feb 11 j 11:32 | 0° $\text{B}$            |            |
|                     | -3146 Oct 29 j 18:18 | 0° $\text{A}$                  |            |                     | -3143 Mar 08 j 05:10 | 0° $\approx$             |            |
| evening max el      | -3146 Oct 29 j 18:03 | 29° $\text{M}$ 59'21           | 47°26'03   |                     | -3143 Apr 01 j 21:13 | 0° $\text{H}$            |            |
|                     | -3146 Dec 05 j 02:03 | 0° $\text{B}$                  |            | morning set         | -3143 Apr 25 j 06:34 | 28° $\text{H}$ 32'48     |            |
| asc. node           | -3146 Dec 07 j 10:49 | 1° $\text{B}$ 07'42            |            |                     | -3143 Apr 26 j 11:05 | 0° $\text{Y}$            |            |
| greatest brilliancy | -3146 Dec 09 j 03:47 | 1° $\text{B}$ 50'30            | -4.9m      |                     | -3143 May 20 j 22:03 | 0° $\text{B}$            |            |
| retrograde          | -3146 Dec 19 j 20:16 | 4° $\text{B}$ 01'56            |            | asc. node           | -3143 May 24 j 06:53 | 4° $\text{B}$ 08'41      |            |
|                     | -3145 Jan 02 j 21:48 | 30° $\text{R}$ $\text{A}$      |            | max. Earth dist.    | -3143 May 27 j 20:31 | 8° $\text{B}$ 32'22      | 1.73354 AU |
| evening set         | -3145 Jan 05 j 00:09 | 28° $\text{A}$ 48'32           |            |                     |                      |                          |            |
| min. Earth dist.    | -3145 Jan 08 j 19:08 | 26° $\text{A}$ 27'55           | 0.27879 AU | superior conj       | -3143 May 31 j 04:31 | 12° $\text{B}$ 38'56     | 0°16'10    |
| inferior conj       | -3145 Jan 09 j 20:27 | 25° $\text{A}$ 47'40           | 7°00'35    | minimum elong       | -3143 May 31 j 01:22 | 12° $\text{B}$ 29'12     | 0°16'05    |
| minimum elong       | -3145 Jan 09 j 11:37 | 26° $\text{A}$ 01'42           | 6°58'59    |                     | -3143 Jun 14 j 05:41 | 0° $\text{II}$           |            |
| morning rise        | -3145 Jan 13 j 23:39 | 23° $\text{A}$ 13'23           |            | evening rise        | -3143 Jul 05 j 21:52 | 26° $\text{II}$ 52'20    |            |
| direct              | -3145 Jan 30 j 16:10 | 17° $\text{A}$ 47'42           |            |                     | -3143 Jul 08 j 10:18 | 0° $\text{G}$            |            |
| greatest brilliancy | -3145 Feb 08 j 10:06 | 19° $\text{A}$ 13'16           | -4.8m      |                     | -3143 Aug 01 j 13:08 | 0° $\Omega$              |            |
|                     | -3145 Feb 27 j 18:03 | 0° $\text{B}$                  |            |                     | -3143 Aug 25 j 16:02 | 0° $\text{M}$            |            |
| morning max el      | -3145 Mar 20 j 13:53 | 18° $\text{B}$ 00'47           | 45°56'58   | desc. node          | -3143 Sep 13 j 00:35 | 22° $\text{M}$ 46'07     |            |
| desc. node          | -3145 Mar 29 j 05:57 | 26° $\text{B}$ 32'50           |            |                     | -3143 Sep 18 j 20:53 | 0° $\underline{\Omega}$  |            |
|                     | -3145 Apr 01 j 15:28 | 0° $\approx$                   |            |                     | -3143 Oct 13 j 05:39 | 0° $\text{M}$            |            |
|                     | -3145 Apr 29 j 13:07 | 0° $\text{H}$                  |            |                     | -3143 Nov 06 j 21:37 | 0° $\text{A}$            |            |
|                     | -3145 May 25 j 20:29 | 0° $\text{Y}$                  |            |                     | -3143 Dec 02 j 04:37 | 0° $\text{B}$            |            |
|                     | -3145 Jun 20 j 06:43 | 0° $\text{B}$                  |            |                     | -3143 Dec 28 j 23:24 | 0° $\approx$             |            |
|                     | -3145 Jul 15 j 01:51 | 0° $\text{II}$                 |            | asc. node           | -3142 Jan 03 j 22:36 | 6° $\approx$ 15'31       |            |
| asc. node           | -3145 Jul 20 j 04:48 | 6° $\text{II}$ 16'43           |            | evening max el      | -3142 Jan 08 j 15:52 | 11° $\approx$ 02'52      | 46°10'16   |
|                     | -3145 Aug 08 j 09:20 | 0° $\text{G}$                  |            |                     | -3142 Jan 29 j 18:18 | 0° $\text{H}$            |            |
|                     | -3145 Sep 01 j 08:43 | 0° $\Omega$                    |            | greatest brilliancy | -3142 Feb 16 j 10:59 | 10° $\text{H}$ 32'40     | -4.8m      |
| greatest brilliancy | -3145 Sep 09 j 13:27 | 10° $\Omega$ 19'02             | -3.9m      | retrograde          | -3142 Feb 27 j 07:25 | 12° $\text{H}$ 42'54     |            |
| morning set         | -3145 Sep 13 j 23:25 | 15° $\Omega$ 53'01             |            | evening set         | -3142 Mar 16 j 10:22 | 7° $\text{H}$ 02'10      |            |
|                     | -3145 Sep 25 j 03:51 | 0° $\text{M}$                  |            | inferior conj       | -3142 Mar 20 j 17:23 | 4° $\text{H}$ 21'44      | 6°57'09    |
|                     | -3145 Oct 18 j 22:15 | 0° $\underline{\Omega}$        |            | minimum elong       | -3142 Mar 21 j 01:42 | 4° $\text{H}$ 08'32      | 6°55'49    |
|                     |                      |                                |            | min. Earth dist.    | -3142 Mar 21 j 00:01 | 4° $\text{H}$ 11'13      | 0.29270 AU |
| superior conj       | -3145 Oct 24 j 11:00 | 6° $\underline{\Omega}$ 58'29  | 0°35'18    | morning rise        | -3142 Mar 25 j 17:07 | 1° $\text{H}$ 16'36      |            |
| minimum elong       | -3145 Oct 24 j 19:45 | 7° $\underline{\Omega}$ 26'05  | 0°34'54    |                     | -3142 Mar 27 j 23:41 | 30° $\text{R}$ $\approx$ |            |
| max. Earth dist.    | -3145 Oct 27 j 06:27 | 10° $\underline{\Omega}$ 30'58 | 1.70944 AU | direct              | -3142 Apr 11 j 09:21 | 25° $\approx$ 56'41      |            |
| desc. node          | -3145 Nov 08 j 22:46 | 26° $\underline{\Omega}$ 28'15 |            | greatest brilliancy | -3142 Apr 21 j 11:32 | 27° $\approx$ 47'10      | -4.7m      |
|                     | -3145 Nov 11 j 18:11 | 0° $\text{M}$                  |            | desc. node          | -3142 Apr 25 j 17:15 | 29° $\approx$ 30'43      |            |
| evening rise        | -3145 Dec 05 j 22:21 | 0° $\text{A}$ 17'39            |            |                     | -3142 Apr 26 j 17:51 | 0° $\text{H}$            |            |
|                     | -3145 Dec 05 j 16:43 | 0° $\text{A}$                  |            | morning max el      | -3142 May 30 j 07:19 | 25° $\text{H}$ 48'02     | 45°50'26   |
|                     | -3145 Dec 29 j 18:30 | 0° $\text{B}$                  |            |                     | -3142 Jun 03 j 15:17 | 0° $\text{Y}$            |            |
|                     | -3144 Jan 23 j 00:45 | 0° $\approx$                   |            |                     | -3142 Jul 02 j 01:42 | 0° $\text{B}$            |            |
|                     | -3144 Feb 16 j 13:43 | 0° $\text{H}$                  |            |                     | -3142 Jul 28 j 05:47 | 0° $\text{II}$           |            |
| asc. node           | -3144 Feb 29 j 20:37 | 16° $\text{H}$ 02'50           |            | asc. node           | -3142 Aug 16 j 16:40 | 23° $\text{II}$ 14'28    |            |
|                     | -3144 Mar 12 j 12:46 | 0° $\text{Y}$                  |            |                     | -3142 Aug 22 j 06:11 | 0° $\text{G}$            |            |
|                     | -3144 Apr 07 j 03:03 | 0° $\text{B}$                  |            |                     | -3142 Sep 15 j 14:09 | 0° $\Omega$              |            |
|                     | -3144 May 03 j 18:38 | 0° $\text{II}$                 |            |                     | -3142 Oct 09 j 13:18 | 0° $\text{M}$            |            |
|                     | -3144 Jun 01 j 17:35 | 0° $\text{G}$                  |            |                     | -3142 Nov 02 j 09:24 | 0° $\underline{\Omega}$  |            |
| evening max el      | -3144 Jun 02 j 07:11 | 0° $\text{G}$ 32'37            | 45°40'31   |                     | -3142 Nov 26 j 06:12 | 0° $\text{M}$            |            |
| desc. node          | -3144 Jun 20 j 14:38 | 16° $\text{G}$ 36'06           |            | morning set         | -3142 Nov 29 j 13:38 | 4° $\text{M}$ 09'00      |            |
| greatest brilliancy | -3144 Jul 12 j 00:09 | 29° $\text{G}$ 03'59           | -4.8m      | desc. node          | -3142 Dec 06 j 10:48 | 12° $\text{M}$ 46'20     |            |
|                     | -3144 Jul 15 j 09:16 | 0° $\Omega$                    |            |                     | -3142 Dec 20 j 05:29 | 0° $\text{A}$            |            |
| retrograde          | -3144 Jul 21 j 10:20 | 0° $\Omega$ 41'02              |            |                     |                      |                          |            |
|                     | -3144 Jul 27 j 07:30 | 30° $\text{R}$ $\text{G}$      |            | superior conj       | -3141 Jan 10 j 09:29 | 26° $\text{A}$ 22'01     | -1°09'26   |
| evening set         | -3144 Aug 08 j 03:25 | 24° $\text{G}$ 52'52           |            | minimum elong       | -3141 Jan 09 j 23:09 | 25° $\text{A}$ 49'53     | 1°09'15    |
| inferior conj       | -3144 Aug 11 j 09:31 | 22° $\text{G}$ 56'17           | -8°47'00   |                     | -3141 Jan 13 j 07:38 | 0° $\text{B}$            |            |
| minimum elong       | -3144 Aug 11 j 06:08 | 23° $\text{G}$ 01'24           | 8°46'44    | max. Earth dist.    | -3141 Jan 14 j 10:48 | 1° $\text{B}$ 24'22      | 1.72283 AU |

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3141 Feb 06 j 12:43 | 0°≈       |            |                     | -3139 Sep 02 j 10:31 | 0°☿       |            |
| evening rise        | -3141 Feb 18 j 19:01 | 15°≈08'07 |            | asc. node           | -3139 Sep 13 j 04:22 | 12°☿14'42 |            |
| greatest brilliancy | -3141 Feb 23 j 16:25 | 21°≈09'33 | -3.9m      |                     | -3139 Sep 28 j 06:39 | 0°♂       |            |
|                     | -3141 Mar 02 j 21:01 | 0°♂       |            |                     | -3139 Oct 23 j 00:02 | 0°♂       |            |
|                     | -3141 Mar 27 j 09:14 | 0°♂       |            |                     | -3139 Nov 16 j 06:28 | 0°♂       |            |
| asc. node           | -3141 Mar 29 j 08:43 | 2°♂24'40  |            |                     | -3139 Dec 10 j 10:09 | 0°♂       |            |
|                     | -3141 Apr 21 j 02:18 | 0°♂       |            | desc. node          | -3138 Jan 02 j 22:54 | 29°♂10'46 |            |
|                     | -3141 May 16 j 01:28 | 0°♂       |            |                     | -3138 Jan 03 j 14:48 | 0°♂       |            |
|                     | -3141 Jun 10 j 09:20 | 0°☿       |            |                     | -3138 Jan 27 j 21:24 | 0°☿       |            |
|                     | -3141 Jul 06 j 07:57 | 0°♂       |            | morning set         | -3138 Feb 13 j 04:51 | 20°☿06'29 |            |
| desc. node          | -3141 Jul 19 j 02:24 | 14°♂20'08 |            |                     | -3138 Feb 21 j 05:42 | 0°≈       |            |
|                     | -3141 Aug 02 j 13:04 | 0°♂       |            |                     | -3138 Mar 17 j 15:15 | 0°♂       |            |
| evening max el      | -3141 Aug 16 j 02:46 | 13°♂56'08 | 47°05'55   |                     |                      |           |            |
|                     | -3141 Sep 02 j 15:03 | 0°♂       |            | superior conj       | -3138 Mar 22 j 22:16 | 6°♂30'00  | -1°08'14   |
| greatest brilliancy | -3141 Sep 26 j 01:38 | 14°♂36'02 | -4.9m      | minimum elong       | -3138 Mar 23 j 06:47 | 6°♂56'09  | 1°08'02    |
| retrograde          | -3141 Oct 05 j 11:44 | 16°♂16'28 |            | max. Earth dist.    | -3138 Mar 23 j 12:30 | 7°♂13'43  | 1.73591 AU |
| evening set         | -3141 Oct 20 j 12:32 | 11°♂47'35 |            |                     | -3138 Apr 11 j 01:40 | 0°♂       |            |
| inferior conj       | -3141 Oct 25 j 23:46 | 8°♂33'35  | -3°32'35   | asc. node           | -3138 Apr 25 j 20:53 | 18°♂09'29 |            |
| minimum elong       | -3141 Oct 26 j 07:18 | 8°♂22'05  | 3°30'20    | evening rise        | -3138 Apr 28 j 09:12 | 21°♂14'27 |            |
| min. Earth dist.    | -3141 Oct 25 j 22:22 | 8°♂35'44  | 0.26351 AU |                     | -3138 May 05 j 12:35 | 0°♂       |            |
| morning rise        | -3141 Nov 01 j 02:17 | 5°♂00'20  |            |                     | -3138 May 29 j 23:49 | 0°♂       |            |
| asc. node           | -3141 Nov 09 j 01:09 | 1°♂47'34  |            |                     | -3138 Jun 23 j 11:49 | 0°☿       |            |
| direct              | -3141 Nov 15 j 06:24 | 0°♂59'28  |            |                     | -3138 Jul 18 j 01:57 | 0°♂       |            |
| greatest brilliancy | -3141 Nov 25 j 07:28 | 2°♂55'49  | -4.9m      |                     | -3138 Aug 11 j 20:48 | 0°♂       |            |
|                     | -3141 Dec 31 j 17:07 | 0°♂       |            | desc. node          | -3138 Aug 15 j 14:27 | 4°♂29'24  |            |
| morning max el      | -3140 Jan 04 j 12:28 | 3°♂45'28  | 46°35'36   |                     | -3138 Sep 06 j 00:32 | 0°♂       |            |
|                     | -3140 Jan 29 j 07:32 | 0°♂       |            |                     | -3138 Oct 01 j 22:03 | 0°♂       |            |
|                     | -3140 Feb 24 j 21:07 | 0°☿       |            | evening max el      | -3138 Oct 27 j 07:51 | 27°♂34'16 | 47°27'23   |
| desc. node          | -3140 Feb 28 j 20:29 | 4°☿34'52  |            |                     | -3138 Oct 29 j 17:15 | 0°♂       |            |
|                     | -3140 Mar 21 j 15:50 | 0°≈       |            | asc. node           | -3138 Dec 06 j 13:01 | 29°♂23'22 |            |
|                     | -3140 Apr 15 j 23:51 | 0°♂       |            | greatest brilliancy | -3138 Dec 06 j 20:07 | 29°♂30'24 | -4.9m      |
|                     | -3140 May 10 j 23:47 | 0°♂       |            |                     | -3138 Dec 08 j 04:06 | 0°☿       |            |
|                     | -3140 Jun 04 j 16:20 | 0°♂       |            | retrograde          | -3138 Dec 17 j 11:24 | 1°☿41'12  |            |
| asc. node           | -3140 Jun 20 j 18:59 | 19°♂46'16 |            |                     | -3138 Dec 26 j 10:51 | 30°♂♂     |            |
|                     | -3140 Jun 29 j 01:49 | 0°♂       |            | evening set         | -3137 Jan 02 j 12:06 | 26°♂32'42 |            |
| morning set         | -3140 Jul 01 j 09:00 | 2°♂50'44  |            | min. Earth dist.    | -3137 Jan 06 j 09:58 | 24°♂08'16 | 0.27802 AU |
|                     | -3140 Jul 23 j 05:02 | 0°☿       |            | inferior conj       | -3137 Jan 07 j 11:23 | 23°♂27'54 | 6°48'39    |
| max. Earth dist.    | -3140 Aug 03 j 12:48 | 14°☿09'56 | 1.71738 AU | minimum elong       | -3137 Jan 07 j 02:18 | 23°♂42'21 | 6°46'55    |
|                     |                      |           |            | morning rise        | -3137 Jan 11 j 17:02 | 20°♂50'12 |            |
| superior conj       | -3140 Aug 07 j 09:01 | 18°☿58'50 | 1°21'53    | direct              | -3137 Jan 28 j 05:36 | 15°♂28'58 |            |
| minimum elong       | -3140 Aug 07 j 04:47 | 18°☿45'35 | 1°21'56    | greatest brilliancy | -3137 Feb 06 j 00:47 | 16°♂55'26 | -4.8m      |
|                     | -3140 Aug 16 j 03:47 | 0°♂       |            |                     | -3137 Feb 28 j 07:53 | 0°☿       |            |
|                     | -3140 Sep 09 j 00:32 | 0°♂       |            | morning max el      | -3137 Mar 18 j 04:17 | 15°☿44'44 | 45°58'08   |
| evening rise        | -3140 Sep 15 j 03:40 | 7°♂42'25  |            | desc. node          | -3137 Mar 28 j 07:53 | 25°☿47'13 |            |
|                     | -3140 Oct 02 j 21:36 | 0°♂       |            |                     | -3137 Apr 01 j 10:27 | 0°≈       |            |
| desc. node          | -3140 Oct 10 j 12:41 | 9°♂33'49  |            |                     | -3137 Apr 29 j 03:52 | 0°♂       |            |
|                     | -3140 Oct 26 j 20:40 | 0°♂       |            |                     | -3137 May 25 j 09:27 | 0°♂       |            |
|                     | -3140 Nov 19 j 22:56 | 0°♂       |            |                     | -3137 Jun 19 j 18:48 | 0°♂       |            |
|                     | -3140 Dec 14 j 06:24 | 0°☿       |            |                     | -3137 Jul 14 j 13:28 | 0°♂       |            |
|                     | -3139 Jan 07 j 23:14 | 0°≈       |            | asc. node           | -3137 Jul 19 j 06:58 | 5°♂47'52  |            |
| asc. node           | -3139 Jan 31 j 10:34 | 27°≈43'38 |            |                     | -3137 Aug 07 j 20:44 | 0°☿       |            |
|                     | -3139 Feb 02 j 09:45 | 0°♂       |            |                     | -3137 Aug 31 j 20:01 | 0°♂       |            |
|                     | -3139 Mar 01 j 07:27 | 0°♂       |            | greatest brilliancy | -3137 Sep 08 j 19:44 | 10°♂03'13 | -3.9m      |
| evening max el      | -3139 Mar 20 j 12:59 | 19°♂32'28 | 45°11'09   | morning set         | -3137 Sep 11 j 12:10 | 13°♂26'14 |            |
|                     | -3139 Apr 01 j 02:05 | 0°♂       |            |                     | -3137 Sep 24 j 15:09 | 0°♂       |            |
| greatest brilliancy | -3139 Apr 27 j 02:52 | 16°♂45'38 | -4.7m      |                     | -3137 Oct 18 j 09:35 | 0°♂       |            |
| retrograde          | -3139 May 07 j 17:37 | 18°♂45'56 |            |                     |                      |           |            |
| evening set         | -3139 May 22 j 15:48 | 14°♂33'02 |            | superior conj       | -3137 Oct 21 j 20:20 | 4°♂20'54  | 0°38'54    |
| desc. node          | -3139 May 23 j 05:00 | 14°♂15'12 |            | minimum elong       | -3137 Oct 22 j 05:44 | 4°♂50'33  | 0°38'28    |
| inferior conj       | -3139 May 29 j 03:29 | 10°♂43'44 | -1°22'44   | max. Earth dist.    | -3137 Oct 24 j 10:48 | 7°♂37'45  | 1.70931 AU |
| minimum elong       | -3139 May 29 j 00:27 | 10°♂48'26 | 1°21'48    | desc. node          | -3137 Nov 08 j 00:52 | 25°♂59'09 |            |
| min. Earth dist.    | -3139 May 29 j 15:20 | 10°♂25'23 | 0.28692 AU |                     | -3137 Nov 11 j 05:32 | 0°♂       |            |
| morning rise        | -3139 Jun 04 j 08:26 | 7°♂01'34  |            | evening rise        | -3137 Dec 03 j 07:47 | 27°♂41'34 |            |
| direct              | -3139 Jun 19 j 20:04 | 2°♂28'30  |            |                     | -3137 Dec 05 j 04:06 | 0°♂       |            |
| greatest brilliancy | -3139 Jun 30 j 20:27 | 4°♂38'32  | -4.8m      |                     | -3137 Dec 29 j 05:57 | 0°☿       |            |
|                     | -3139 Aug 04 j 19:54 | 0°♂       |            |                     | -3136 Jan 22 j 12:20 | 0°≈       |            |
| morning max el      | -3139 Aug 08 j 10:29 | 3°♂30'04  | 46°21'29   |                     | -3136 Feb 16 j 01:35 | 0°♂       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                          |            |                     |                      |                           |            |
|---------------------|----------------------|--------------------------|------------|---------------------|----------------------|---------------------------|------------|
| asc. node           | -3136 Feb 28 j 22:39 | 15° $\text{X}$ 32'34     |            | asc. node           | -3134 Aug 15 j 18:46 | 22° $\text{II}$ 42'59     |            |
|                     | -3136 Mar 12 j 01:15 | 0° $\text{Y}$            |            |                     | -3134 Aug 21 j 18:29 | 0° $\text{G}$             |            |
|                     | -3136 Apr 06 j 16:43 | 0° $\text{B}$            |            |                     | -3134 Sep 15 j 02:01 | 0° $\text{Q}$             |            |
|                     | -3136 May 03 j 10:56 | 0° $\text{II}$           |            |                     | -3134 Oct 09 j 00:56 | 0° $\text{M}$             |            |
| evening max el      | -3136 May 30 j 21:36 | 28° $\text{II}$ 15'58    | 45°38'10   |                     | -3134 Nov 01 j 20:54 | 0° $\text{L}$             |            |
|                     | -3136 Jun 01 j 17:27 | 0° $\text{G}$            |            |                     | -3134 Nov 25 j 17:36 | 0° $\text{M}$             |            |
| desc. node          | -3136 Jun 19 j 16:47 | 15° $\text{G}$ 26'28     |            | morning set         | -3134 Nov 26 j 23:14 | 1° $\text{M}$ 32'57       |            |
| greatest brilliancy | -3136 Jul 09 j 10:53 | 26° $\text{G}$ 40'26     | -4.8m      | desc. node          | -3134 Dec 05 j 13:01 | 12° $\text{M}$ 17'40      |            |
| retrograde          | -3136 Jul 18 j 23:47 | 28° $\text{G}$ 19'18     |            |                     | -3134 Dec 19 j 16:47 | 0° $\text{X}$             |            |
| evening set         | -3136 Aug 05 j 13:36 | 22° $\text{G}$ 34'52     |            |                     |                      |                           |            |
| inferior conj       | -3136 Aug 08 j 22:47 | 20° $\text{G}$ 33'45     | -8°42'21   | superior conj       | -3133 Jan 07 j 20:52 | 23° $\text{X}$ 53'15      | -1°07'14   |
| minimum elong       | -3136 Aug 08 j 18:34 | 20° $\text{G}$ 40'08     | 8°42'00    | minimum elong       | -3133 Jan 07 j 10:10 | 23° $\text{X}$ 20'01      | 1°07'02    |
| min. Earth dist.    | -3136 Aug 09 j 08:46 | 20° $\text{G}$ 18'38     | 0.27514 AU | max. Earth dist.    | -3133 Jan 12 j 02:48 | 29° $\text{X}$ 10'08      | 1.72224 AU |
| morning rise        | -3136 Aug 11 j 23:21 | 18° $\text{G}$ 44'52     |            |                     | -3133 Jan 12 j 18:51 | 0° $\text{Z}$             |            |
| direct              | -3136 Aug 29 j 22:20 | 12° $\text{G}$ 40'57     |            |                     | -3133 Feb 05 j 23:51 | 0° $\approx$              |            |
| greatest brilliancy | -3136 Sep 09 j 21:36 | 14° $\text{G}$ 55'44     | -4.9m      | evening rise        | -3133 Feb 16 j 09:41 | 12° $\approx$ 51'06       |            |
|                     | -3136 Oct 02 j 19:07 | 0° $\text{Q}$            |            | greatest brilliancy | -3133 Feb 22 j 07:05 | 20° $\approx$ 06'34       | -3.9m      |
| asc. node           | -3136 Oct 10 j 15:46 | 7° $\text{Q}$ 07'49      |            |                     | -3133 Mar 02 j 08:10 | 0° $\text{X}$             |            |
| morning max el      | -3136 Oct 19 j 17:16 | 16° $\text{Q}$ 04'52     | 46°52'20   |                     | -3133 Mar 26 j 20:34 | 0° $\text{Y}$             |            |
|                     | -3136 Nov 01 j 19:27 | 0° $\text{M}$            |            | asc. node           | -3133 Mar 28 j 10:48 | 1° $\text{Y}$ 56'28       |            |
|                     | -3136 Nov 28 j 02:26 | 0° $\text{L}$            |            |                     | -3133 Apr 20 j 13:59 | 0° $\text{B}$             |            |
|                     | -3136 Dec 23 j 07:55 | 0° $\text{M}$            |            |                     | -3133 May 15 j 13:48 | 0° $\text{II}$            |            |
|                     | -3135 Jan 17 j 05:05 | 0° $\text{X}$            |            |                     | -3133 Jun 09 j 22:45 | 0° $\text{G}$             |            |
| desc. node          | -3135 Jan 30 j 10:47 | 16° $\text{X}$ 01'17     |            |                     | -3133 Jul 05 j 23:21 | 0° $\text{Q}$             |            |
|                     | -3135 Feb 10 j 23:35 | 0° $\text{Z}$            |            | desc. node          | -3133 Jul 18 j 04:32 | 13° $\text{Q}$ 39'14      |            |
|                     | -3135 Mar 07 j 16:46 | 0° $\approx$             |            |                     | -3133 Aug 02 j 08:53 | 0° $\text{M}$             |            |
|                     | -3135 Apr 01 j 08:30 | 0° $\text{X}$            |            | evening max el      | -3133 Aug 13 j 16:05 | 11° $\text{M}$ 31'31      | 47°03'14   |
| morning set         | -3135 Apr 23 j 01:25 | 26° $\text{X}$ 29'48     |            |                     | -3133 Sep 03 j 04:50 | 0° $\text{L}$             |            |
|                     | -3135 Apr 25 j 22:08 | 0° $\text{Y}$            |            | greatest brilliancy | -3133 Sep 23 j 15:12 | 12° $\text{L}$ 07'13      | -4.9m      |
|                     | -3135 May 20 j 09:00 | 0° $\text{B}$            |            | retrograde          | -3133 Oct 02 j 23:27 | 13° $\text{L}$ 45'44      |            |
| asc. node           | -3135 May 23 j 09:07 | 3° $\text{B}$ 41'50      |            | evening set         | -3133 Oct 18 j 03:19 | 9° $\text{L}$ 14'06       |            |
| max. Earth dist.    | -3135 May 25 j 19:25 | 6° $\text{B}$ 41'17      | 1.73387 AU | inferior conj       | -3133 Oct 23 j 11:54 | 6° $\text{L}$ 03'43       | -3°55'00   |
|                     |                      |                          |            | minimum elong       | -3133 Oct 23 j 20:06 | 5° $\text{L}$ 51'13       | 3°52'36    |
| superior conj       | -3135 May 28 j 23:30 | 10° $\text{B}$ 35'40     | 0°13'09    | min. Earth dist.    | -3133 Oct 23 j 11:59 | 6° $\text{L}$ 03'37       | 0.26355 AU |
| minimum elong       | -3135 May 28 j 20:55 | 10° $\text{B}$ 27'42     | 0°13'06    | morning rise        | -3133 Oct 29 j 13:00 | 2° $\text{L}$ 32'05       |            |
| behind sun begin    | -3135 May 28 j 08:22 | 9° $\text{B}$ 49'03      |            |                     | -3133 Nov 04 j 05:19 | 30° $\text{R}$ $\text{M}$ |            |
| behind sun end      | -3135 May 29 j 09:27 | 11° $\text{B}$ 06'21     |            | asc. node           | -3133 Nov 08 j 03:26 | 28° $\text{M}$ 56'14      |            |
|                     | -3135 Jun 13 j 16:40 | 0° $\text{II}$           |            | direct              | -3133 Nov 12 j 18:28 | 28° $\text{M}$ 29'44      |            |
| evening rise        | -3135 Jul 03 j 16:18 | 24° $\text{II}$ 46'02    |            |                     | -3133 Nov 21 j 14:18 | 0° $\text{L}$             |            |
|                     | -3135 Jul 07 j 21:25 | 0° $\text{G}$            |            | greatest brilliancy | -3133 Nov 22 j 21:15 | 0° $\text{L}$ 27'07       | -4.9m      |
|                     | -3135 Aug 01 j 00:31 | 0° $\text{Q}$            |            |                     | -3133 Dec 31 j 17:41 | 0° $\text{M}$             |            |
|                     | -3135 Aug 25 j 03:45 | 0° $\text{M}$            |            | morning max el      | -3132 Jan 02 j 00:53 | 1° $\text{M}$ 17'47       | 46°36'45   |
| desc. node          | -3135 Sep 12 j 02:33 | 22° $\text{M}$ 15'04     |            |                     | -3132 Jan 29 j 00:33 | 0° $\text{X}$             |            |
|                     | -3135 Sep 18 j 09:01 | 0° $\text{L}$            |            |                     | -3132 Feb 24 j 11:21 | 0° $\text{Z}$             |            |
|                     | -3135 Oct 12 j 18:19 | 0° $\text{M}$            |            | desc. node          | -3132 Feb 27 j 22:30 | 4° $\text{Z}$ 00'21       |            |
|                     | -3135 Nov 06 j 11:07 | 0° $\text{X}$            |            |                     | -3132 Mar 21 j 04:36 | 0° $\approx$              |            |
|                     | -3135 Dec 01 j 19:41 | 0° $\text{Z}$            |            |                     | -3132 Apr 15 j 11:46 | 0° $\text{X}$             |            |
|                     | -3135 Dec 28 j 18:21 | 0° $\approx$             |            |                     | -3132 May 10 j 11:11 | 0° $\text{Y}$             |            |
| asc. node           | -3134 Jan 03 j 00:47 | 5° $\approx$ 28'42       |            |                     | -3132 Jun 04 j 03:28 | 0° $\text{B}$             |            |
| evening max el      | -3134 Jan 06 j 08:13 | 8° $\approx$ 49'37       | 46°13'17   | asc. node           | -3132 Jun 19 j 21:07 | 19° $\text{B}$ 18'50      |            |
|                     | -3134 Jan 30 j 09:00 | 0° $\text{X}$            |            |                     | -3132 Jun 28 j 12:49 | 0° $\text{II}$            |            |
| greatest brilliancy | -3134 Feb 14 j 03:52 | 8° $\text{X}$ 23'30      | -4.8m      | morning set         | -3132 Jun 29 j 02:23 | 0° $\text{II}$ 41'58      |            |
| retrograde          | -3134 Feb 25 j 00:46 | 10° $\text{X}$ 33'51     |            |                     | -3132 Jul 22 j 16:01 | 0° $\text{G}$             |            |
| evening set         | -3134 Mar 14 j 05:37 | 4° $\text{X}$ 49'34      |            | max. Earth dist.    | -3132 Aug 01 j 01:33 | 11° $\text{G}$ 45'10      | 1.71796 AU |
| inferior conj       | -3134 Mar 18 j 10:15 | 2° $\text{X}$ 12'19      | 7°07'21    |                     |                      |                           |            |
| minimum elong       | -3134 Mar 18 j 18:16 | 1° $\text{X}$ 59'33      | 7°06'09    | superior conj       | -3132 Aug 05 j 00:53 | 16° $\text{G}$ 43'43      | 1°21'02    |
| min. Earth dist.    | -3134 Mar 18 j 15:34 | 2° $\text{X}$ 03'50      | 0.29258 AU | minimum elong       | -3132 Aug 04 j 20:00 | 16° $\text{G}$ 28'26      | 1°21'05    |
|                     | -3134 Mar 21 j 22:36 | 30° $\text{R}$ $\approx$ |            |                     | -3132 Aug 15 j 14:48 | 0° $\text{Q}$             |            |
| morning rise        | -3134 Mar 23 j 07:05 | 29° $\approx$ 11'18      |            |                     | -3132 Sep 08 j 11:39 | 0° $\text{M}$             |            |
| direct              | -3134 Apr 09 j 02:23 | 23° $\approx$ 47'43      |            | evening rise        | -3132 Sep 12 j 15:31 | 5° $\text{M}$ 13'49       |            |
| greatest brilliancy | -3134 Apr 19 j 01:47 | 25° $\approx$ 36'05      | -4.7m      |                     | -3132 Oct 02 j 08:52 | 0° $\text{L}$             |            |
| desc. node          | -3134 Apr 24 j 19:27 | 28° $\approx$ 02'22      |            | desc. node          | -3132 Oct 09 j 14:50 | 9° $\text{L}$ 05'06       |            |
|                     | -3134 Apr 28 j 10:34 | 0° $\text{X}$            |            |                     | -3132 Oct 26 j 08:07 | 0° $\text{M}$             |            |
| morning max el      | -3134 May 27 j 23:56 | 23° $\text{X}$ 39'27     | 45°49'58   |                     | -3132 Nov 19 j 10:38 | 0° $\text{X}$             |            |
|                     | -3134 Jun 03 j 11:51 | 0° $\text{Y}$            |            |                     | -3132 Dec 13 j 18:26 | 0° $\text{Z}$             |            |
|                     | -3134 Jul 01 j 16:56 | 0° $\text{B}$            |            |                     | -3131 Jan 07 j 11:55 | 0° $\approx$              |            |
|                     | -3134 Jul 27 j 19:01 | 0° $\text{II}$           |            | asc. node           | -3131 Jan 30 j 12:36 | 27° $\approx$ 09'22       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                       |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|-----------------------|------------|
|                     | -3131 Feb 01 j 23:47 | 0° $\text{H}$        |            | morning set         | -3129 Sep 09 j 00:59 | 11° $\text{Q}$ 00'40  |            |
|                     | -3131 Mar 01 j 00:46 | 0° $\text{Y}$        |            |                     | -3129 Sep 24 j 02:11 | 0° $\text{M}$         |            |
| evening max el      | -3131 Mar 18 j 03:26 | 17° $\text{Y}$ 18'32 | 45°11'54   |                     | -3129 Oct 17 j 20:37 | 0° $\text{L}$         |            |
|                     | -3131 Apr 01 j 08:16 | 0° $\text{B}$        |            |                     |                      |                       |            |
| greatest brilliancy | -3131 Apr 24 j 18:17 | 14° $\text{B}$ 35'30 | -4.7m      | superior conj       | -3129 Oct 19 j 05:51 | 1° $\text{L}$ 44'45   | 0°42'23    |
| retrograde          | -3131 May 05 j 09:03 | 16° $\text{B}$ 36'24 |            | minimum elong       | -3129 Oct 19 j 15:49 | 2° $\text{L}$ 16'10   | 0°41'57    |
| evening set         | -3131 May 20 j 07:45 | 12° $\text{B}$ 22'27 |            | max. Earth dist.    | -3129 Oct 21 j 17:34 | 4° $\text{L}$ 53'00   | 1.70916 AU |
| desc. node          | -3131 May 22 j 07:12 | 11° $\text{B}$ 16'38 |            | desc. node          | -3129 Nov 07 j 03:03 | 25° $\text{L}$ 31'22  |            |
| inferior conj       | -3131 May 26 j 19:21 | 8° $\text{B}$ 33'27  | -1°02'54   |                     | -3129 Nov 10 j 16:34 | 0° $\text{M}$         |            |
| minimum elong       | -3131 May 26 j 17:02 | 8° $\text{B}$ 37'02  | 1°02'10    | evening rise        | -3129 Nov 30 j 17:23 | 25° $\text{M}$ 07'02  |            |
| min. Earth dist.    | -3131 May 27 j 07:53 | 8° $\text{B}$ 14'03  | 0.28729 AU |                     | -3129 Dec 04 j 15:07 | 0° $\text{J}$         |            |
| morning rise        | -3131 Jun 02 j 01:35 | 4° $\text{B}$ 49'18  |            |                     | -3129 Dec 28 j 17:00 | 0° $\text{Z}$         |            |
| direct              | -3131 Jun 17 j 11:37 | 0° $\text{B}$ 17'15  |            |                     | -3128 Jan 21 j 23:32 | 0° $\approx$          |            |
| greatest brilliancy | -3131 Jun 28 j 13:13 | 2° $\text{B}$ 28'04  | -4.8m      |                     | -3128 Feb 15 j 13:06 | 0° $\text{H}$         |            |
|                     | -3131 Aug 04 j 19:11 | 0° $\text{II}$       |            | asc. node           | -3128 Feb 28 j 00:44 | 15° $\text{H}$ 03'30  |            |
| morning max el      | -3131 Aug 06 j 01:36 | 1° $\text{II}$ 14'22 | 46°20'17   |                     | -3128 Mar 11 j 13:24 | 0° $\text{Y}$         |            |
|                     | -3131 Sep 02 j 02:42 | 0° $\text{G}$        |            |                     | -3128 Apr 06 j 06:11 | 0° $\text{B}$         |            |
| asc. node           | -3131 Sep 12 j 06:25 | 11° $\text{G}$ 37'13 |            |                     | -3128 May 03 j 03:14 | 0° $\text{II}$        |            |
|                     | -3131 Sep 27 j 20:26 | 0° $\text{Q}$        |            | evening max el      | -3128 May 28 j 12:45 | 26° $\text{II}$ 01'57 | 45°35'50   |
|                     | -3131 Oct 22 j 12:42 | 0° $\text{M}$        |            |                     | -3128 Jun 01 j 18:10 | 0° $\text{G}$         |            |
|                     | -3131 Nov 15 j 18:31 | 0° $\text{L}$        |            | desc. node          | -3128 Jun 18 j 18:53 | 14° $\text{G}$ 15'26  |            |
|                     | -3131 Dec 09 j 21:48 | 0° $\text{M}$        |            | greatest brilliancy | -3128 Jul 06 j 21:55 | 24° $\text{G}$ 18'15  | -4.8m      |
| desc. node          | -3130 Jan 02 j 00:57 | 28° $\text{M}$ 41'57 |            | retrograde          | -3128 Jul 16 j 13:01 | 25° $\text{G}$ 58'24  |            |
|                     | -3130 Jan 03 j 02:09 | 0° $\text{J}$        |            | evening set         | -3128 Aug 02 j 23:33 | 20° $\text{G}$ 18'30  |            |
|                     | -3130 Jan 27 j 08:31 | 0° $\text{Z}$        |            | inferior conj       | -3128 Aug 06 j 12:04 | 18° $\text{G}$ 12'18  | -8°36'51   |
| morning set         | -3130 Feb 10 j 19:07 | 17° $\text{Z}$ 48'39 |            | minimum elong       | -3128 Aug 06 j 07:02 | 18° $\text{G}$ 19'56  | 8°36'23    |
|                     | -3130 Feb 20 j 16:38 | 0° $\approx$         |            | min. Earth dist.    | -3128 Aug 06 j 21:20 | 17° $\text{G}$ 58'15  | 0.27562 AU |
|                     | -3130 Mar 17 j 02:04 | 0° $\text{H}$        |            | morning rise        | -3128 Aug 09 j 14:20 | 16° $\text{G}$ 20'49  |            |
|                     |                      |                      |            | direct              | -3128 Aug 27 j 13:02 | 10° $\text{G}$ 18'53  |            |
| superior conj       | -3130 Mar 20 j 15:33 | 4° $\text{H}$ 22'33  | -1°10'02   | greatest brilliancy | -3128 Sep 07 j 11:01 | 12° $\text{G}$ 32'34  | -4.9m      |
| minimum elong       | -3130 Mar 20 j 23:54 | 4° $\text{H}$ 48'10  | 1°09'52    |                     | -3128 Oct 03 j 02:41 | 0° $\text{Q}$         |            |
| max. Earth dist.    | -3130 Mar 21 j 06:42 | 5° $\text{H}$ 09'04  | 1.73568 AU | asc. node           | -3128 Oct 09 j 18:04 | 6° $\text{Q}$ 10'24   |            |
|                     | -3130 Apr 10 j 12:28 | 0° $\text{Y}$        |            | morning max el      | -3128 Oct 17 j 07:38 | 13° $\text{Q}$ 41'37  | 46°51'52   |
| asc. node           | -3130 Apr 24 j 23:05 | 17° $\text{Y}$ 43'02 |            |                     | -3128 Nov 01 j 13:56 | 0° $\text{M}$         |            |
| evening rise        | -3130 Apr 26 j 04:01 | 19° $\text{Y}$ 11'46 |            |                     | -3128 Nov 27 j 17:20 | 0° $\text{L}$         |            |
|                     | -3130 May 04 j 23:28 | 0° $\text{B}$        |            |                     | -3128 Dec 22 j 21:09 | 0° $\text{M}$         |            |
|                     | -3130 May 29 j 10:56 | 0° $\text{II}$       |            |                     | -3127 Jan 16 j 17:20 | 0° $\text{J}$         |            |
|                     | -3130 Jun 22 j 23:19 | 0° $\text{G}$        |            | desc. node          | -3127 Jan 29 j 12:48 | 15° $\text{J}$ 31'23  |            |
|                     | -3130 Jul 17 j 14:03 | 0° $\text{Q}$        |            |                     | -3127 Feb 10 j 11:10 | 0° $\text{Z}$         |            |
|                     | -3130 Aug 11 j 09:44 | 0° $\text{M}$        |            |                     | -3127 Mar 07 j 03:55 | 0° $\approx$          |            |
| desc. node          | -3130 Aug 14 j 16:27 | 3° $\text{M}$ 56'10  |            |                     | -3127 Mar 31 j 19:21 | 0° $\text{H}$         |            |
|                     | -3130 Sep 05 j 14:47 | 0° $\text{L}$        |            | morning set         | -3127 Apr 20 j 20:23 | 24° $\text{H}$ 28'21  |            |
|                     | -3130 Oct 01 j 14:47 | 0° $\text{M}$        |            |                     | -3127 Apr 25 j 08:49 | 0° $\text{Y}$         |            |
| evening max el      | -3130 Oct 24 j 22:34 | 25° $\text{M}$ 12'42 | 47°28'49   |                     | -3127 May 19 j 19:38 | 0° $\text{B}$         |            |
|                     | -3130 Oct 29 j 16:41 | 0° $\text{J}$        |            | asc. node           | -3127 May 22 j 11:13 | 3° $\text{B}$ 15'34   |            |
| greatest brilliancy | -3130 Dec 04 j 11:54 | 27° $\text{J}$ 10'54 | -4.9m      | max. Earth dist.    | -3127 May 23 j 16:35 | 4° $\text{B}$ 45'56   | 1.73424 AU |
| asc. node           | -3130 Dec 05 j 15:06 | 27° $\text{J}$ 36'20 |            |                     |                      |                       |            |
| retrograde          | -3130 Dec 15 j 03:00 | 29° $\text{J}$ 21'56 |            | superior conj       | -3127 May 26 j 18:28 | 8° $\text{B}$ 33'25   | 0°10'08    |
| evening set         | -3130 Dec 31 j 00:11 | 24° $\text{J}$ 17'55 |            | minimum elong       | -3127 May 26 j 16:28 | 8° $\text{B}$ 27'15   | 0°10'05    |
| min. Earth dist.    | -3129 Jan 04 j 00:33 | 21° $\text{J}$ 50'17 | 0.27728 AU | behind sun begin    | -3127 May 25 j 23:15 | 7° $\text{B}$ 34'12   |            |
| inferior conj       | -3129 Jan 05 j 02:24 | 21° $\text{J}$ 09'23 | 6°36'04    | behind sun end      | -3127 May 27 j 09:41 | 9° $\text{B}$ 20'19   |            |
| minimum elong       | -3129 Jan 04 j 17:06 | 21° $\text{J}$ 24'07 | 6°34'11    |                     | -3127 Jun 13 j 03:21 | 0° $\text{II}$        |            |
| morning rise        | -3129 Jan 09 j 10:35 | 18° $\text{J}$ 28'21 |            | evening rise        | -3127 Jul 01 j 10:36 | 22° $\text{II}$ 40'19 |            |
| direct              | -3129 Jan 25 j 19:30 | 13° $\text{J}$ 11'27 |            |                     | -3127 Jul 07 j 08:17 | 0° $\text{G}$         |            |
| greatest brilliancy | -3129 Feb 03 j 15:11 | 14° $\text{J}$ 38'35 | -4.8m      |                     | -3127 Jul 31 j 11:37 | 0° $\text{Q}$         |            |
|                     | -3129 Feb 28 j 17:42 | 0° $\text{Z}$        |            |                     | -3127 Aug 24 j 15:11 | 0° $\text{M}$         |            |
| morning max el      | -3129 Mar 15 j 19:43 | 13° $\text{Z}$ 32'05 | 45°59'04   | desc. node          | -3127 Sep 11 j 04:43 | 21° $\text{M}$ 45'34  |            |
| desc. node          | -3129 Mar 27 j 10:05 | 25° $\text{Z}$ 03'42 |            |                     | -3127 Sep 17 j 20:51 | 0° $\text{L}$         |            |
|                     | -3129 Apr 01 j 04:39 | 0° $\approx$         |            |                     | -3127 Oct 12 j 06:43 | 0° $\text{M}$         |            |
|                     | -3129 Apr 28 j 18:13 | 0° $\text{H}$        |            |                     | -3127 Nov 06 j 00:23 | 0° $\text{J}$         |            |
|                     | -3129 May 24 j 22:08 | 0° $\text{Y}$        |            |                     | -3127 Dec 01 j 10:35 | 0° $\text{Z}$         |            |
|                     | -3129 Jun 19 j 06:37 | 0° $\text{B}$        |            |                     | -3127 Dec 28 j 13:21 | 0° $\approx$          |            |
|                     | -3129 Jul 14 j 00:48 | 0° $\text{II}$       |            | asc. node           | -3126 Jan 02 j 02:53 | 4° $\approx$ 42'08    |            |
| asc. node           | -3129 Jul 18 j 09:00 | 5° $\text{II}$ 19'27 |            | evening max el      | -3126 Jan 04 j 00:24 | 6° $\approx$ 36'56    | 46°16'22   |
|                     | -3129 Aug 07 j 07:50 | 0° $\text{G}$        |            |                     | -3126 Jan 31 j 03:51 | 0° $\text{H}$         |            |
|                     | -3129 Aug 31 j 07:02 | 0° $\text{Q}$        |            | greatest brilliancy | -3126 Feb 11 j 21:32 | 6° $\text{H}$ 16'48   | -4.8m      |
| greatest brilliancy | -3129 Sep 07 j 23:36 | 9° $\text{Q}$ 40'42  | -3.9m      | retrograde          | -3126 Feb 22 j 17:57 | 8° $\text{H}$ 26'37   |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 56

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                  |            |                     |                      |                                 |            |
|---------------------|----------------------|----------------------------------|------------|---------------------|----------------------|---------------------------------|------------|
| evening set         | -3126 Mar 12 j 01:01 | 2° $\text{H}$ 39'10              |            | max. Earth dist.    | -3124 Jul 29 j 17:03 | 9° $\text{D}$ 29'28             | 1.71862 AU |
| inferior conj       | -3126 Mar 16 j 03:23 | 0° $\text{H}$ 04'57              | 7°16'53    |                     |                      |                                 |            |
| minimum elong       | -3126 Mar 16 j 11:03 | 29° $\approx$ 52'44              | 7°15'48    | superior conj       | -3124 Aug 02 j 16:57 | 14° $\text{D}$ 29'39            | 1°20'04    |
|                     | -3126 Mar 16 j 06:29 | 30° $\text{R}$ $\approx$         |            | minimum elong       | -3124 Aug 02 j 11:29 | 14° $\text{D}$ 12'30            | 1°20'05    |
| min. Earth dist.    | -3126 Mar 16 j 07:36 | 29° $\approx$ 58'13              | 0.29243 AU |                     | -3124 Aug 15 j 01:44 | 0° $\Omega$                     |            |
| morning rise        | -3126 Mar 20 j 21:15 | 27° $\approx$ 07'57              |            |                     | -3124 Sep 07 j 22:44 | 0° $\text{M}$                   |            |
| direct              | -3126 Apr 06 j 19:20 | 21° $\approx$ 40'54              |            | evening rise        | -3124 Sep 10 j 03:27 | 2° $\text{M}$ 45'35             |            |
| greatest brilliancy | -3126 Apr 16 j 16:31 | 23° $\approx$ 27'14              | -4.7m      |                     | -3124 Oct 01 j 20:09 | 0° $\underline{\text{A}}$       |            |
| desc. node          | -3126 Apr 23 j 21:36 | 26° $\approx$ 38'30              |            | desc. node          | -3124 Oct 08 j 16:59 | 8° $\underline{\text{A}}$ 36'26 |            |
|                     | -3126 Apr 29 j 13:49 | 0° $\text{H}$                    |            |                     | -3124 Oct 25 j 19:35 | 0° $\text{M}$                   |            |
| morning max el      | -3126 May 25 j 15:49 | 21° $\text{H}$ 30'25             | 45°49'20   |                     | -3124 Nov 18 j 22:20 | 0° $\text{A}$                   |            |
|                     | -3126 Jun 03 j 07:18 | 0° $\text{Y}$                    |            |                     | -3124 Dec 13 j 06:29 | 0° $\text{Z}$                   |            |
|                     | -3126 Jul 01 j 07:38 | 0° $\text{B}$                    |            |                     | -3123 Jan 07 j 00:38 | 0° $\approx$                    |            |
|                     | -3126 Jul 27 j 07:55 | 0° $\text{II}$                   |            | asc. node           | -3123 Jan 29 j 14:44 | 26° $\approx$ 35'20             |            |
| asc. node           | -3126 Aug 14 j 20:52 | 22° $\text{II}$ 12'21            |            |                     | -3123 Feb 01 j 13:54 | 0° $\text{H}$                   |            |
|                     | -3126 Aug 21 j 06:32 | 0° $\text{D}$                    |            |                     | -3123 Feb 28 j 18:22 | 0° $\text{Y}$                   |            |
|                     | -3126 Sep 14 j 13:37 | 0° $\Omega$                      |            | evening max el      | -3123 Mar 15 j 18:33 | 15° $\text{Y}$ 06'39            | 45°12'54   |
|                     | -3126 Oct 08 j 12:18 | 0° $\text{M}$                    |            |                     | -3123 Apr 01 j 16:38 | 0° $\text{B}$                   |            |
|                     | -3126 Nov 01 j 08:06 | 0° $\underline{\text{A}}$        |            | greatest brilliancy | -3123 Apr 22 j 09:28 | 12° $\text{B}$ 26'05            | -4.7m      |
| morning set         | -3126 Nov 24 j 08:47 | 28° $\underline{\text{A}}$ 57'30 |            | retrograde          | -3123 May 03 j 01:19 | 14° $\text{B}$ 28'15            |            |
|                     | -3126 Nov 25 j 04:42 | 0° $\text{M}$                    |            | evening set         | -3123 May 18 j 00:11 | 10° $\text{B}$ 13'00            |            |
| desc. node          | -3126 Dec 04 j 15:00 | 11° $\text{M}$ 49'14             |            | desc. node          | -3123 May 21 j 09:12 | 8° $\text{B}$ 17'52             |            |
|                     | -3126 Dec 19 j 03:48 | 0° $\text{A}$                    |            | inferior conj       | -3123 May 24 j 11:31 | 6° $\text{B}$ 24'24             | -0°43'14   |
|                     |                      |                                  |            | minimum elong       | -3123 May 24 j 09:55 | 6° $\text{B}$ 26'52             | 0°42'42    |
| superior conj       | -3125 Jan 05 j 08:12 | 21° $\text{A}$ 25'10             | -1°04'56   | min. Earth dist.    | -3123 May 25 j 00:24 | 6° $\text{B}$ 04'29             | 0.28763 AU |
| minimum elong       | -3125 Jan 04 j 21:14 | 20° $\text{A}$ 51'02             | 1°04'41    | morning rise        | -3123 May 30 j 18:56 | 2° $\text{B}$ 38'44             |            |
| max. Earth dist.    | -3125 Jan 09 j 17:47 | 26° $\text{A}$ 53'30             | 1.72162 AU |                     | -3123 Jun 05 j 09:43 | 30° $\text{R}$ $\text{Y}$       |            |
|                     | -3125 Jan 12 j 05:48 | 0° $\text{Z}$                    |            | direct              | -3123 Jun 15 j 03:52 | 28° $\text{Y}$ 07'22            |            |
|                     | -3125 Feb 05 j 10:44 | 0° $\approx$                     |            |                     | -3123 Jun 25 j 09:17 | 0° $\text{B}$                   |            |
| evening rise        | -3125 Feb 14 j 00:22 | 10° $\approx$ 34'51              |            | greatest brilliancy | -3123 Jun 26 j 05:54 | 0° $\text{B}$ 18'46             | -4.8m      |
| greatest brilliancy | -3125 Feb 20 j 23:28 | 19° $\approx$ 09'43              | -3.9m      | morning max el      | -3123 Aug 03 j 17:42 | 29° $\text{B}$ 01'52            | 46°18'53   |
|                     | -3125 Mar 01 j 19:02 | 0° $\text{H}$                    |            |                     | -3123 Aug 04 j 17:18 | 0° $\text{II}$                  |            |
|                     | -3125 Mar 26 j 07:34 | 0° $\text{Y}$                    |            |                     | -3123 Sep 01 j 18:32 | 0° $\text{D}$                   |            |
| asc. node           | -3125 Mar 27 j 13:04 | 1° $\text{Y}$ 29'50              |            | asc. node           | -3123 Sep 11 j 08:42 | 11° $\text{D}$ 00'48            |            |
|                     | -3125 Apr 20 j 01:22 | 0° $\text{B}$                    |            |                     | -3123 Sep 27 j 10:08 | 0° $\Omega$                     |            |
|                     | -3125 May 15 j 01:52 | 0° $\text{II}$                   |            |                     | -3123 Oct 22 j 01:24 | 0° $\text{M}$                   |            |
|                     | -3125 Jun 09 j 12:00 | 0° $\text{D}$                    |            |                     | -3123 Nov 15 j 06:40 | 0° $\underline{\text{A}}$       |            |
|                     | -3125 Jul 05 j 14:46 | 0° $\Omega$                      |            |                     | -3123 Dec 09 j 09:34 | 0° $\text{M}$                   |            |
| desc. node          | -3125 Jul 17 j 06:32 | 12° $\Omega$ 57'55               |            | desc. node          | -3122 Jan 01 j 03:04 | 28° $\text{M}$ 12'56            |            |
|                     | -3125 Aug 02 j 05:10 | 0° $\text{M}$                    |            |                     | -3122 Jan 02 j 13:37 | 0° $\text{A}$                   |            |
| evening max el      | -3125 Aug 11 j 04:31 | 9° $\text{M}$ 05'02              | 47°00'23   |                     | -3122 Jan 26 j 19:44 | 0° $\text{Z}$                   |            |
|                     | -3125 Sep 03 j 23:02 | 0° $\underline{\text{A}}$        |            | morning set         | -3122 Feb 08 j 09:04 | 15° $\text{Z}$ 29'29            |            |
| greatest brilliancy | -3125 Sep 21 j 05:06 | 9° $\underline{\text{A}}$ 38'52  | -4.9m      |                     | -3122 Feb 20 j 03:39 | 0° $\approx$                    |            |
| retrograde          | -3125 Sep 30 j 10:48 | 11° $\underline{\text{A}}$ 15'16 |            |                     | -3122 Mar 16 j 12:59 | 0° $\text{H}$                   |            |
| evening set         | -3125 Oct 15 j 18:05 | 6° $\underline{\text{A}}$ 40'24  |            |                     |                      |                                 |            |
| inferior conj       | -3125 Oct 20 j 23:58 | 3° $\underline{\text{A}}$ 34'09  | -4°16'57   | superior conj       | -3122 Mar 18 j 08:48 | 2° $\text{H}$ 14'36             | -1°11'46   |
| minimum elong       | -3125 Oct 21 j 08:45 | 3° $\underline{\text{A}}$ 20'45  | 4°14'27    | minimum elong       | -3122 Mar 18 j 16:54 | 2° $\text{H}$ 39'30             | 1°11'37    |
| min. Earth dist.    | -3125 Oct 21 j 01:48 | 3° $\underline{\text{A}}$ 31'21  | 0.26362 AU | max. Earth dist.    | -3122 Mar 19 j 02:09 | 3° $\text{H}$ 07'54             | 1.73543 AU |
| morning rise        | -3125 Oct 26 j 23:23 | 0° $\underline{\text{A}}$ 04'28  |            |                     | -3122 Apr 09 j 23:21 | 0° $\text{Y}$                   |            |
|                     | -3125 Oct 27 j 02:45 | 30° $\text{R}$ $\text{M}$        |            | evening rise        | -3122 Apr 23 j 23:03 | 17° $\text{Y}$ 09'30            |            |
| asc. node           | -3125 Nov 07 j 05:30 | 26° $\text{M}$ 11'14             |            | asc. node           | -3122 Apr 24 j 01:11 | 17° $\text{Y}$ 16'01            |            |
| direct              | -3125 Nov 10 j 06:06 | 25° $\text{M}$ 59'56             |            |                     | -3122 May 04 j 10:27 | 0° $\text{B}$                   |            |
| greatest brilliancy | -3125 Nov 20 j 11:28 | 27° $\text{M}$ 59'14             | -4.9m      |                     | -3122 May 28 j 22:07 | 0° $\text{II}$                  |            |
|                     | -3125 Nov 25 j 00:56 | 0° $\underline{\text{A}}$        |            |                     | -3122 Jun 22 j 10:52 | 0° $\text{D}$                   |            |
| morning max el      | -3125 Dec 30 j 13:09 | 28° $\underline{\text{A}}$ 50'04 | 46°38'01   |                     | -3122 Jul 17 j 02:11 | 0° $\Omega$                     |            |
|                     | -3125 Dec 31 j 16:57 | 0° $\text{M}$                    |            |                     | -3122 Aug 10 j 22:47 | 0° $\text{M}$                   |            |
|                     | -3124 Jan 28 j 17:02 | 0° $\text{A}$                    |            | desc. node          | -3122 Aug 13 j 18:40 | 3° $\text{M}$ 23'18             |            |
|                     | -3124 Feb 24 j 01:13 | 0° $\text{Z}$                    |            |                     | -3122 Sep 05 j 05:17 | 0° $\underline{\text{A}}$       |            |
| desc. node          | -3124 Feb 27 j 00:38 | 3° $\text{Z}$ 26'56              |            |                     | -3122 Oct 01 j 08:02 | 0° $\text{M}$                   |            |
|                     | -3124 Mar 20 j 17:06 | 0° $\approx$                     |            | evening max el      | -3122 Oct 22 j 14:13 | 22° $\text{M}$ 52'34            | 47°29'52   |
|                     | -3124 Apr 14 j 23:26 | 0° $\text{H}$                    |            |                     | -3122 Oct 29 j 17:39 | 0° $\text{A}$                   |            |
|                     | -3124 May 09 j 22:21 | 0° $\text{Y}$                    |            | greatest brilliancy | -3122 Dec 02 j 03:04 | 24° $\text{A}$ 48'43            | -4.9m      |
|                     | -3124 Jun 03 j 14:22 | 0° $\text{B}$                    |            | asc. node           | -3122 Dec 04 j 17:12 | 25° $\text{A}$ 43'10            |            |
| asc. node           | -3124 Jun 18 j 23:11 | 18° $\text{B}$ 51'54             |            | retrograde          | -3122 Dec 12 j 18:40 | 27° $\text{A}$ 00'12            |            |
| morning set         | -3124 Jun 26 j 20:09 | 28° $\text{B}$ 35'03             |            | evening set         | -3122 Dec 28 j 11:58 | 22° $\text{A}$ 00'43            |            |
|                     | -3124 Jun 27 j 23:37 | 0° $\text{II}$                   |            | min. Earth dist.    | -3121 Jan 01 j 14:39 | 19° $\text{A}$ 30'01            | 0.27651 AU |
|                     | -3124 Jul 22 j 02:50 | 0° $\text{D}$                    |            | inferior conj       | -3121 Jan 02 j 17:01 | 18° $\text{A}$ 48'25            | 6°22'31    |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
| minimum elong       | -3121 Jan 02 j 07:35 | 19° $\text{♁}$ 03'19 | 6°20'31    | evening rise        | -3119 Jun 29 j 04:58 | 20° $\text{♁}$ 33'47 |            |
| morning rise        | -3121 Jan 07 j 03:51 | 16° $\text{♁}$ 04'00 |            |                     | -3119 Jul 06 j 19:29 | 0° $\text{♁}$        |            |
| direct              | -3121 Jan 23 j 09:32 | 10° $\text{♁}$ 51'41 |            |                     | -3119 Jul 30 j 23:04 | 0° $\text{♁}$        |            |
| greatest brilliancy | -3121 Feb 01 j 04:49 | 12° $\text{♁}$ 19'01 | -4.8m      |                     | -3119 Aug 24 j 02:56 | 0° $\text{♁}$        |            |
|                     | -3121 Mar 01 j 01:24 | 0° $\text{♁}$        |            | desc. node          | -3119 Sep 10 j 06:52 | 21° $\text{♁}$ 15'01 |            |
| morning max el      | -3121 Mar 13 j 11:27 | 11° $\text{♁}$ 19'06 | 46°00'07   |                     | -3119 Sep 17 j 09:00 | 0° $\text{♁}$        |            |
| desc. node          | -3121 Mar 26 j 12:18 | 24° $\text{♁}$ 19'57 |            |                     | -3119 Oct 11 j 19:25 | 0° $\text{♁}$        |            |
|                     | -3121 Mar 31 j 22:44 | 0° $\text{♁}$        |            |                     | -3119 Nov 05 j 14:01 | 0° $\text{♁}$        |            |
|                     | -3121 Apr 28 j 08:39 | 0° $\text{♁}$        |            |                     | -3119 Dec 01 j 01:58 | 0° $\text{♁}$        |            |
|                     | -3121 May 24 j 10:57 | 0° $\text{♁}$        |            |                     | -3119 Dec 28 j 09:22 | 0° $\text{♁}$        |            |
|                     | -3121 Jun 18 j 18:34 | 0° $\text{♁}$        |            | asc. node           | -3118 Jan 01 j 05:01 | 3° $\text{♁}$ 53'41  |            |
|                     | -3121 Jul 13 j 12:17 | 0° $\text{♁}$        |            | evening max el      | -3118 Jan 01 j 15:33 | 4° $\text{♁}$ 20'09  | 46°19'08   |
| asc. node           | -3121 Jul 17 j 11:10 | 4° $\text{♁}$ 51'01  |            |                     | -3118 Feb 01 j 07:04 | 0° $\text{♁}$        |            |
|                     | -3121 Aug 06 j 19:04 | 0° $\text{♁}$        |            | greatest brilliancy | -3118 Feb 09 j 15:12 | 4° $\text{♁}$ 07'51  | -4.8m      |
|                     | -3121 Aug 30 j 18:12 | 0° $\text{♁}$        |            | retrograde          | -3118 Feb 20 j 10:23 | 6° $\text{♁}$ 16'56  |            |
| morning set         | -3121 Sep 06 j 14:26 | 8° $\text{♁}$ 36'46  |            | evening set         | -3118 Mar 09 j 20:02 | 0° $\text{♁}$ 26'21  |            |
|                     | -3121 Sep 23 j 13:22 | 0° $\text{♁}$        |            |                     | -3118 Mar 10 j 13:16 | 30° $\text{♁}$       |            |
|                     |                      |                      |            | inferior conj       | -3118 Mar 13 j 20:14 | 27° $\text{♁}$ 55'13 | 7°25'55    |
| superior conj       | -3121 Oct 16 j 15:46 | 29° $\text{♁}$ 09'16 | 0°45'44    | minimum elong       | -3118 Mar 14 j 03:30 | 27° $\text{♁}$ 43'36 | 7°24'57    |
| minimum elong       | -3121 Oct 17 j 02:11 | 29° $\text{♁}$ 42'06 | 0°45'19    | min. Earth dist.    | -3118 Mar 13 j 23:41 | 27° $\text{♁}$ 49'42 | 0.29228 AU |
|                     | -3121 Oct 17 j 07:51 | 0° $\text{♁}$        |            | morning rise        | -3118 Mar 18 j 11:07 | 25° $\text{♁}$ 02'15 |            |
| max. Earth dist.    | -3121 Oct 19 j 01:56 | 2° $\text{♁}$ 12'39  | 1.70910 AU | direct              | -3118 Apr 04 j 11:32 | 19° $\text{♁}$ 31'34 |            |
| desc. node          | -3121 Nov 06 j 05:04 | 25° $\text{♁}$ 02'16 |            | greatest brilliancy | -3118 Apr 14 j 07:39 | 21° $\text{♁}$ 16'36 | -4.7m      |
|                     | -3121 Nov 10 j 03:52 | 0° $\text{♁}$        |            | desc. node          | -3118 Apr 22 j 23:36 | 25° $\text{♁}$ 15'00 |            |
| evening rise        | -3121 Nov 28 j 02:42 | 22° $\text{♁}$ 30'33 |            |                     | -3118 Apr 30 j 10:45 | 0° $\text{♁}$        |            |
|                     | -3121 Dec 04 j 02:28 | 0° $\text{♁}$        |            | morning max el      | -3118 May 23 j 06:52 | 19° $\text{♁}$ 17'46 | 45°48'56   |
|                     | -3121 Dec 28 j 04:26 | 0° $\text{♁}$        |            |                     | -3118 Jun 03 j 02:47 | 0° $\text{♁}$        |            |
|                     | -3120 Jan 21 j 11:07 | 0° $\text{♁}$        |            |                     | -3118 Jun 30 j 22:35 | 0° $\text{♁}$        |            |
|                     | -3120 Feb 15 j 01:00 | 0° $\text{♁}$        |            |                     | -3118 Jul 26 j 21:06 | 0° $\text{♁}$        |            |
| asc. node           | -3120 Feb 27 j 02:58 | 14° $\text{♁}$ 33'42 |            | asc. node           | -3118 Aug 13 j 23:04 | 21° $\text{♁}$ 41'02 |            |
|                     | -3120 Mar 11 j 01:59 | 0° $\text{♁}$        |            |                     | -3118 Aug 20 j 18:52 | 0° $\text{♁}$        |            |
|                     | -3120 Apr 05 j 20:08 | 0° $\text{♁}$        |            |                     | -3118 Sep 14 j 01:31 | 0° $\text{♁}$        |            |
|                     | -3120 May 02 j 20:11 | 0° $\text{♁}$        |            |                     | -3118 Oct 07 j 23:56 | 0° $\text{♁}$        |            |
| evening max el      | -3120 May 26 j 03:54 | 23° $\text{♁}$ 47'10 | 45°33'37   |                     | -3118 Oct 31 j 19:34 | 0° $\text{♁}$        |            |
|                     | -3120 Jun 01 j 20:33 | 0° $\text{♁}$        |            | morning set         | -3118 Nov 21 j 18:43 | 26° $\text{♁}$ 22'21 |            |
| desc. node          | -3120 Jun 17 j 20:59 | 13° $\text{♁}$ 01'45 |            |                     | -3118 Nov 24 j 16:03 | 0° $\text{♁}$        |            |
| greatest brilliancy | -3120 Jul 04 j 09:51 | 21° $\text{♁}$ 57'01 | -4.8m      | desc. node          | -3118 Dec 03 j 17:07 | 11° $\text{♁}$ 20'26 |            |
| retrograde          | -3120 Jul 14 j 02:07 | 23° $\text{♁}$ 37'42 |            |                     | -3118 Dec 18 j 15:04 | 0° $\text{♁}$        |            |
| evening set         | -3120 Jul 31 j 09:41 | 18° $\text{♁}$ 02'52 |            |                     |                      |                      |            |
| inferior conj       | -3120 Aug 04 j 01:40 | 15° $\text{♁}$ 51'21 | -8°30'38   | superior conj       | -3117 Jan 02 j 19:44 | 18° $\text{♁}$ 56'51 | -1°02'29   |
| minimum elong       | -3120 Aug 03 j 19:51 | 16° $\text{♁}$ 00'11 | 8°30'02    | minimum elong       | -3117 Jan 02 j 08:34 | 18° $\text{♁}$ 22'06 | 1°02'13    |
| min. Earth dist.    | -3120 Aug 04 j 10:29 | 15° $\text{♁}$ 37'57 | 0.27605 AU | max. Earth dist.    | -3117 Jan 07 j 07:38 | 24° $\text{♁}$ 32'31 | 1.72103 AU |
| morning rise        | -3120 Aug 07 j 05:51 | 13° $\text{♁}$ 56'47 |            |                     | -3117 Jan 11 j 16:59 | 0° $\text{♁}$        |            |
| direct              | -3120 Aug 25 j 03:38 | 7° $\text{♁}$ 57'25  |            |                     | -3117 Feb 04 j 21:53 | 0° $\text{♁}$        |            |
| greatest brilliancy | -3120 Sep 05 j 00:51 | 10° $\text{♁}$ 09'58 | -4.9m      | evening rise        | -3117 Feb 11 j 14:57 | 8° $\text{♁}$ 17'18  |            |
|                     | -3120 Oct 03 j 08:08 | 0° $\text{♁}$        |            | greatest brilliancy | -3117 Feb 19 j 04:16 | 17° $\text{♁}$ 36'11 | -3.9m      |
| asc. node           | -3120 Oct 08 j 20:07 | 5° $\text{♁}$ 13'23  |            |                     | -3117 Mar 01 j 06:15 | 0° $\text{♁}$        |            |
| morning max el      | -3120 Oct 14 j 21:10 | 11° $\text{♁}$ 15'54 | 46°51'19   |                     | -3117 Mar 25 j 18:59 | 0° $\text{♁}$        |            |
|                     | -3120 Nov 01 j 08:06 | 0° $\text{♁}$        |            | asc. node           | -3117 Mar 26 j 15:04 | 1° $\text{♁}$ 01'09  |            |
|                     | -3120 Nov 27 j 08:16 | 0° $\text{♁}$        |            |                     | -3117 Apr 19 j 13:11 | 0° $\text{♁}$        |            |
|                     | -3120 Dec 22 j 10:35 | 0° $\text{♁}$        |            |                     | -3117 May 14 j 14:23 | 0° $\text{♁}$        |            |
|                     | -3119 Jan 16 j 05:53 | 0° $\text{♁}$        |            |                     | -3117 Jun 09 j 01:45 | 0° $\text{♁}$        |            |
| desc. node          | -3119 Jan 28 j 14:59 | 15° $\text{♁}$ 00'49 |            |                     | -3117 Jul 05 j 06:46 | 0° $\text{♁}$        |            |
|                     | -3119 Feb 09 j 23:10 | 0° $\text{♁}$        |            | desc. node          | -3117 Jul 16 j 08:45 | 12° $\text{♁}$ 15'42 |            |
|                     | -3119 Mar 06 j 15:29 | 0° $\text{♁}$        |            |                     | -3117 Aug 02 j 02:30 | 0° $\text{♁}$        |            |
|                     | -3119 Mar 31 j 06:36 | 0° $\text{♁}$        |            | evening max el      | -3117 Aug 08 j 16:18 | 6° $\text{♁}$ 36'16  | 46°57'37   |
| morning set         | -3119 Apr 18 j 14:55 | 22° $\text{♁}$ 24'26 |            |                     | -3117 Sep 05 j 00:01 | 0° $\text{♁}$        |            |
|                     | -3119 Apr 24 j 19:53 | 0° $\text{♁}$        |            | greatest brilliancy | -3117 Sep 18 j 18:43 | 7° $\text{♁}$ 09'23  | -4.9m      |
|                     | -3119 May 19 j 06:37 | 0° $\text{♁}$        |            | retrograde          | -3117 Sep 27 j 22:12 | 8° $\text{♁}$ 44'18  |            |
| max. Earth dist.    | -3119 May 21 j 12:27 | 2° $\text{♁}$ 45'33  | 1.73456 AU | evening set         | -3117 Oct 13 j 08:58 | 4° $\text{♁}$ 05'30  |            |
| asc. node           | -3119 May 21 j 13:15 | 2° $\text{♁}$ 48'00  |            | inferior conj       | -3117 Oct 18 j 12:01 | 1° $\text{♁}$ 03'44  | -4°38'29   |
|                     |                      |                      |            | minimum elong       | -3117 Oct 18 j 21:19 | 0° $\text{♁}$ 49'33  | 4°35'52    |
| superior conj       | -3119 May 24 j 13:14 | 6° $\text{♁}$ 29'34  | 0°07'05    | min. Earth dist.    | -3117 Oct 18 j 15:30 | 0° $\text{♁}$ 58'25  | 0.26372 AU |
| minimum elong       | -3119 May 24 j 11:50 | 6° $\text{♁}$ 25'15  | 0°07'04    |                     | -3117 Oct 20 j 05:58 | 30° $\text{♁}$       |            |
| behind sun begin    | -3119 May 23 j 15:52 | 5° $\text{♁}$ 23'46  |            | morning rise        | -3117 Oct 24 j 09:32 | 27° $\text{♁}$ 36'38 |            |
| behind sun end      | -3119 May 25 j 07:48 | 7° $\text{♁}$ 26'44  |            | asc. node           | -3117 Nov 06 j 07:36 | 23° $\text{♁}$ 31'34 |            |
|                     | -3119 Jun 12 j 14:24 | 0° $\text{♁}$        |            | direct              | -3117 Nov 07 j 17:49 | 23° $\text{♁}$ 29'04 |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                               |            |                     |                      |                        |            |
|---------------------|----------------------|-------------------------------|------------|---------------------|----------------------|------------------------|------------|
| greatest brilliancy | -3117 Nov 18 j 01:45 | 25° $\mathbb{M}$ 30'43        | -4.9m      |                     | -3114 May 28 j 09:23 | 0° $\mathbb{I}$        |            |
|                     | -3117 Nov 27 j 00:24 | 0° $\mathbb{A}$               |            |                     | -3114 Jun 21 j 22:33 | 0° $\mathbb{G}$        |            |
| morning max el      | -3117 Dec 28 j 02:08 | 26° $\mathbb{A}$ 23'19        | 46°39'25   |                     | -3114 Jul 16 j 14:30 | 0° $\mathbb{Q}$        |            |
|                     | -3117 Dec 31 j 15:30 | 0° $\mathbb{M}$               |            |                     | -3114 Aug 10 j 12:01 | 0° $\mathbb{M}$        |            |
|                     | -3116 Jan 28 j 09:26 | 0° $\mathbb{A}$               |            | desc. node          | -3114 Aug 12 j 20:44 | 2° $\mathbb{M}$ 49'35  |            |
|                     | -3116 Feb 23 j 15:09 | 0° $\mathbb{Z}$               |            |                     | -3114 Sep 04 j 20:00 | 0° $\mathbb{A}$        |            |
| desc. node          | -3116 Feb 26 j 02:49 | 2° $\mathbb{Z}$ 53'17         |            |                     | -3114 Oct 01 j 01:39 | 0° $\mathbb{M}$        |            |
|                     | -3116 Mar 20 j 05:45 | 0° $\mathbb{A}$               |            | evening max el      | -3114 Oct 20 j 06:21 | 20° $\mathbb{M}$ 33'46 | 47°30'52   |
|                     | -3116 Apr 14 j 11:20 | 0° $\mathbb{H}$               |            |                     | -3114 Oct 29 j 19:53 | 0° $\mathbb{A}$        |            |
|                     | -3116 May 09 j 09:49 | 0° $\mathbb{Y}$               |            | greatest brilliancy | -3114 Nov 29 j 18:07 | 22° $\mathbb{A}$ 26'25 | -4.9m      |
|                     | -3116 Jun 03 j 01:35 | 0° $\mathbb{B}$               |            | asc. node           | -3114 Dec 03 j 19:25 | 23° $\mathbb{A}$ 45'37 |            |
| asc. node           | -3116 Jun 18 j 01:22 | 18° $\mathbb{B}$ 24'22        |            | retrograde          | -3114 Dec 10 j 10:18 | 24° $\mathbb{A}$ 38'02 |            |
| morning set         | -3116 Jun 24 j 13:42 | 26° $\mathbb{B}$ 26'36        |            | evening set         | -3114 Dec 25 j 23:46 | 19° $\mathbb{A}$ 43'15 |            |
|                     | -3116 Jun 27 j 10:43 | 0° $\mathbb{I}$               |            | min. Earth dist.    | -3114 Dec 30 j 04:39 | 17° $\mathbb{A}$ 09'28 | 0.27573 AU |
|                     | -3116 Jul 21 j 13:55 | 0° $\mathbb{G}$               |            | inferior conj       | -3114 Dec 31 j 07:30 | 16° $\mathbb{A}$ 27'08 | 6°08'09    |
| max. Earth dist.    | -3116 Jul 27 j 09:38 | 7° $\mathbb{G}$ 16'29         | 1.71922 AU | minimum elong       | -3114 Dec 30 j 22:01 | 16° $\mathbb{A}$ 42'05 | 6°06'03    |
|                     |                      |                               |            | morning rise        | -3113 Jan 04 j 21:00 | 13° $\mathbb{A}$ 39'13 |            |
| superior conj       | -3116 Jul 31 j 08:49 | 12° $\mathbb{G}$ 14'16        | 1°18'58    | direct              | -3113 Jan 20 j 23:49 | 8° $\mathbb{A}$ 31'49  |            |
| minimum elong       | -3116 Jul 31 j 02:47 | 11° $\mathbb{G}$ 55'22        | 1°18'58    | greatest brilliancy | -3113 Jan 29 j 18:13 | 9° $\mathbb{A}$ 58'54  | -4.8m      |
|                     | -3116 Aug 14 j 12:53 | 0° $\mathbb{Q}$               |            |                     | -3113 Mar 01 j 06:47 | 0° $\mathbb{Z}$        |            |
|                     | -3116 Sep 07 j 10:02 | 0° $\mathbb{M}$               |            | morning max el      | -3113 Mar 11 j 02:48 | 9° $\mathbb{Z}$ 05'23  | 46°01'13   |
| evening rise        | -3116 Sep 07 j 15:28 | 0° $\mathbb{M}$ 17'03         |            | desc. node          | -3113 Mar 25 j 14:14 | 23° $\mathbb{Z}$ 36'21 |            |
|                     | -3116 Oct 01 j 07:39 | 0° $\mathbb{A}$               |            |                     | -3113 Mar 31 j 16:17 | 0° $\mathbb{A}$        |            |
| desc. node          | -3116 Oct 07 j 18:58 | 8° $\mathbb{A}$ 06'30         |            |                     | -3113 Apr 27 j 22:47 | 0° $\mathbb{H}$        |            |
|                     | -3116 Oct 25 j 07:17 | 0° $\mathbb{M}$               |            |                     | -3113 May 23 j 23:33 | 0° $\mathbb{Y}$        |            |
|                     | -3116 Nov 18 j 10:14 | 0° $\mathbb{A}$               |            |                     | -3113 Jun 18 j 06:22 | 0° $\mathbb{B}$        |            |
|                     | -3116 Dec 12 j 18:43 | 0° $\mathbb{Z}$               |            |                     | -3113 Jul 12 j 23:40 | 0° $\mathbb{I}$        |            |
|                     | -3115 Jan 06 j 13:32 | 0° $\mathbb{A}$               |            | asc. node           | -3113 Jul 16 j 13:19 | 4° $\mathbb{I}$ 22'45  |            |
| asc. node           | -3115 Jan 28 j 16:58 | 26° $\mathbb{A}$ 01'01        |            |                     | -3113 Aug 06 j 06:16 | 0° $\mathbb{G}$        |            |
|                     | -3115 Feb 01 j 04:16 | 0° $\mathbb{H}$               |            |                     | -3113 Aug 30 j 05:21 | 0° $\mathbb{Q}$        |            |
|                     | -3115 Feb 28 j 12:30 | 0° $\mathbb{Y}$               |            | morning set         | -3113 Sep 04 j 03:35 | 6° $\mathbb{Q}$ 11'59  |            |
| evening max el      | -3115 Mar 13 j 10:15 | 12° $\mathbb{Y}$ 55'47        | 45°13'50   |                     | -3113 Sep 23 j 00:31 | 0° $\mathbb{M}$        |            |
|                     | -3115 Apr 02 j 04:20 | 0° $\mathbb{B}$               |            |                     |                      |                        |            |
| greatest brilliancy | -3115 Apr 20 j 00:10 | 10° $\mathbb{B}$ 15'27        | -4.7m      | superior conj       | -3113 Oct 14 j 01:30 | 26° $\mathbb{M}$ 33'28 | 0°49'02    |
| retrograde          | -3115 Apr 30 j 17:41 | 12° $\mathbb{B}$ 18'59        |            | minimum elong       | -3113 Oct 14 j 12:16 | 27° $\mathbb{M}$ 07'24 | 0°48'36    |
| evening set         | -3115 May 15 j 16:40 | 8° $\mathbb{B}$ 02'25         |            | max. Earth dist.    | -3113 Oct 16 j 07:06 | 29° $\mathbb{M}$ 22'27 | 1.70899 AU |
| desc. node          | -3115 May 20 j 11:21 | 5° $\mathbb{B}$ 15'59         |            |                     | -3113 Oct 16 j 19:01 | 0° $\mathbb{A}$        |            |
| inferior conj       | -3115 May 22 j 03:30 | 4° $\mathbb{B}$ 14'10         | -0°23'19   | desc. node          | -3113 Nov 05 j 07:10 | 24° $\mathbb{A}$ 33'47 |            |
| minimum elong       | -3115 May 22 j 02:38 | 4° $\mathbb{B}$ 15'30         | 0°23'01    |                     | -3113 Nov 09 j 15:02 | 0° $\mathbb{M}$        |            |
| min. Earth dist.    | -3115 May 22 j 16:26 | 3° $\mathbb{B}$ 54'10         | 0.28800 AU | evening rise        | -3113 Nov 25 j 11:42 | 19° $\mathbb{M}$ 53'26 |            |
| morning rise        | -3115 May 28 j 11:59 | 0° $\mathbb{B}$ 27'13         |            |                     | -3113 Dec 03 j 13:41 | 0° $\mathbb{A}$        |            |
|                     | -3115 May 29 j 08:14 | 30° $\mathbb{R}$ $\mathbb{Y}$ |            |                     | -3113 Dec 27 j 15:43 | 0° $\mathbb{Z}$        |            |
| direct              | -3115 Jun 12 j 20:30 | 25° $\mathbb{Y}$ 56'26        |            |                     | -3112 Jan 20 j 22:34 | 0° $\mathbb{A}$        |            |
| greatest brilliancy | -3115 Jun 23 j 22:02 | 28° $\mathbb{Y}$ 07'52        | -4.8m      |                     | -3112 Feb 14 j 12:46 | 0° $\mathbb{H}$        |            |
|                     | -3115 Jun 28 j 05:03 | 0° $\mathbb{B}$               |            | asc. node           | -3112 Feb 26 j 04:59 | 14° $\mathbb{H}$ 03'42 |            |
| morning max el      | -3115 Aug 01 j 10:11 | 26° $\mathbb{B}$ 49'45        | 46°17'31   |                     | -3112 Mar 10 j 14:24 | 0° $\mathbb{Y}$        |            |
|                     | -3115 Aug 04 j 14:56 | 0° $\mathbb{I}$               |            |                     | -3112 Apr 05 j 09:57 | 0° $\mathbb{B}$        |            |
|                     | -3115 Sep 01 j 10:20 | 0° $\mathbb{G}$               |            |                     | -3112 May 02 j 13:11 | 0° $\mathbb{I}$        |            |
| asc. node           | -3115 Sep 10 j 10:45 | 10° $\mathbb{G}$ 23'28        |            | evening max el      | -3112 May 23 j 18:05 | 21° $\mathbb{I}$ 30'53 | 45°31'20   |
|                     | -3115 Sep 26 j 23:51 | 0° $\mathbb{Q}$               |            |                     | -3112 Jun 02 j 00:09 | 0° $\mathbb{G}$        |            |
|                     | -3115 Oct 21 j 14:07 | 0° $\mathbb{M}$               |            | desc. node          | -3112 Jun 16 j 23:07 | 11° $\mathbb{G}$ 46'34 |            |
|                     | -3115 Nov 14 j 18:50 | 0° $\mathbb{A}$               |            | greatest brilliancy | -3112 Jul 01 j 22:09 | 19° $\mathbb{G}$ 36'51 | -4.8m      |
|                     | -3115 Dec 08 j 21:22 | 0° $\mathbb{M}$               |            | retrograde          | -3112 Jul 11 j 14:35 | 21° $\mathbb{G}$ 17'42 |            |
| desc. node          | -3115 Dec 31 j 05:12 | 27° $\mathbb{M}$ 43'51        |            | evening set         | -3112 Jul 28 j 19:32 | 15° $\mathbb{G}$ 48'07 |            |
|                     | -3114 Jan 02 j 01:07 | 0° $\mathbb{A}$               |            | inferior conj       | -3112 Aug 01 j 15:14 | 13° $\mathbb{G}$ 31'03 | -8°23'25   |
|                     | -3114 Jan 26 j 06:58 | 0° $\mathbb{Z}$               |            | minimum elong       | -3112 Aug 01 j 08:42 | 13° $\mathbb{G}$ 40'59 | 8°22'41    |
| morning set         | -3114 Feb 05 j 23:01 | 13° $\mathbb{Z}$ 10'06        |            | min. Earth dist.    | -3112 Aug 01 j 23:59 | 13° $\mathbb{G}$ 17'44 | 0.27653 AU |
|                     | -3114 Feb 19 j 14:42 | 0° $\mathbb{A}$               |            | morning rise        | -3112 Aug 04 j 21:40 | 11° $\mathbb{G}$ 32'54 |            |
|                     | -3114 Mar 15 j 23:54 | 0° $\mathbb{H}$               |            | direct              | -3112 Aug 22 j 17:48 | 5° $\mathbb{G}$ 36'17  |            |
|                     |                      |                               |            | greatest brilliancy | -3112 Sep 02 j 15:25 | 7° $\mathbb{G}$ 48'33  | -4.9m      |
| superior conj       | -3114 Mar 16 j 02:03 | 0° $\mathbb{H}$ 06'36         | -1°13'23   |                     | -3112 Oct 03 j 11:43 | 0° $\mathbb{Q}$        |            |
| minimum elong       | -3114 Mar 16 j 09:51 | 0° $\mathbb{H}$ 30'36         | 1°13'15    | asc. node           | -3112 Oct 07 j 22:12 | 4° $\mathbb{Q}$ 17'39  |            |
| max. Earth dist.    | -3114 Mar 16 j 23:42 | 1° $\mathbb{H}$ 13'09         | 1.73516 AU | morning max el      | -3112 Oct 12 j 09:42 | 8° $\mathbb{Q}$ 47'47  | 46°50'45   |
|                     | -3114 Apr 09 j 10:15 | 0° $\mathbb{Y}$               |            |                     | -3112 Nov 01 j 01:49 | 0° $\mathbb{M}$        |            |
| evening rise        | -3114 Apr 21 j 18:05 | 15° $\mathbb{Y}$ 07'15        |            |                     | -3112 Nov 26 j 22:55 | 0° $\mathbb{A}$        |            |
| asc. node           | -3114 Apr 23 j 03:14 | 16° $\mathbb{Y}$ 48'51        |            |                     | -3112 Dec 21 j 23:44 | 0° $\mathbb{M}$        |            |
|                     | -3114 May 03 j 21:27 | 0° $\mathbb{B}$               |            |                     | -3111 Jan 15 j 18:10 | 0° $\mathbb{A}$        |            |

|                     |                      |                                       |            |                     |                      |                                  |            |  |
|---------------------|----------------------|---------------------------------------|------------|---------------------|----------------------|----------------------------------|------------|--|
| desc. node          | -3111 Jan 27 j 17:05 | 14° $\overset{\circ}{\text{A}}$ 30'54 |            |                     | -3109 Jul 04 j 22:33 | 0° $\Omega$                      |            |  |
|                     | -3111 Feb 09 j 10:51 | 0° $\text{B}$                         |            | desc. node          | -3109 Jul 15 j 10:51 | 11° $\Omega$ 34'03               |            |  |
|                     | -3111 Mar 06 j 02:45 | 0° $\approx$                          |            |                     | -3109 Aug 02 j 00:02 | 0° $\mathfrak{M}$                |            |  |
|                     | -3111 Mar 30 j 17:34 | 0° $\text{H}$                         |            | evening max el      | -3109 Aug 06 j 04:23 | 4° $\mathfrak{M}$ 09'56          | 46°54'52   |  |
| morning set         | -3111 Apr 16 j 09:37 | 20° $\text{H}$ 21'49                  |            |                     | -3109 Sep 06 j 09:35 | 0° $\underline{\text{L}}$        |            |  |
|                     | -3111 Apr 24 j 06:39 | 0° $\Upsilon$                         |            | greatest brilliancy | -3109 Sep 16 j 07:32 | 4° $\underline{\text{L}}$ 40'40  | -4.9m      |  |
|                     | -3111 May 18 j 17:18 | 0° $\text{X}$                         |            | retrograde          | -3109 Sep 25 j 10:04 | 6° $\underline{\text{L}}$ 15'04  |            |  |
| max. Earth dist.    | -3111 May 19 j 08:02 | 0° $\text{X}$ 45'17                   | 1.73486 AU | evening set         | -3109 Oct 10 j 23:57 | 1° $\underline{\text{L}}$ 31'49  |            |  |
| asc. node           | -3111 May 20 j 15:29 | 2° $\text{X}$ 22'00                   |            |                     | -3109 Oct 13 j 15:30 | 30° $\mathfrak{R}\mathfrak{M}$   |            |  |
|                     |                      |                                       |            | inferior conj       | -3109 Oct 16 j 00:04 | 28° $\mathfrak{M}$ 34'36         | -4°59'13   |  |
| superior conj       | -3111 May 22 j 08:21 | 4° $\text{X}$ 27'44                   | 0°04'02    | minimum elong       | -3109 Oct 16 j 09:51 | 28° $\mathfrak{M}$ 19'45         | 4°56'34    |  |
| minimum elong       | -3111 May 22 j 07:32 | 4° $\text{X}$ 25'15                   | 0°04'04    | min. Earth dist.    | -3109 Oct 16 j 04:48 | 28° $\mathfrak{M}$ 27'24         | 0.26393 AU |  |
| behind sun begin    | -3111 May 21 j 10:04 | 3° $\text{X}$ 19'10                   |            | morning rise        | -3109 Oct 21 j 19:32 | 25° $\mathfrak{M}$ 10'39         |            |  |
| behind sun end      | -3111 May 23 j 05:01 | 5° $\text{X}$ 31'21                   |            | direct              | -3109 Nov 05 j 06:03 | 20° $\mathfrak{M}$ 59'23         |            |  |
|                     | -3111 Jun 12 j 01:08 | 0° $\Pi$                              |            | asc. node           | -3109 Nov 05 j 09:49 | 20° $\mathfrak{M}$ 59'25         |            |  |
| evening rise        | -3111 Jun 26 j 23:42 | 18° $\Pi$ 29'32                       |            | greatest brilliancy | -3109 Nov 15 j 15:42 | 23° $\mathfrak{M}$ 03'00         | -4.9m      |  |
|                     | -3111 Jul 06 j 06:24 | 0° $\text{C}$                         |            |                     | -3109 Nov 28 j 07:58 | 0° $\underline{\text{L}}$        |            |  |
|                     | -3111 Jul 30 j 10:15 | 0° $\Omega$                           |            | morning max el      | -3109 Dec 25 j 16:07 | 23° $\underline{\text{L}}$ 59'45 | 46°40'37   |  |
|                     | -3111 Aug 23 j 14:28 | 0° $\mathfrak{M}$                     |            |                     | -3109 Dec 31 j 12:57 | 0° $\mathfrak{M}$                |            |  |
| desc. node          | -3111 Sep 09 j 08:51 | 20° $\mathfrak{M}$ 44'33              |            |                     | -3108 Jan 28 j 01:20 | 0° $\overset{\circ}{\text{A}}$   |            |  |
|                     | -3111 Sep 16 j 20:59 | 0° $\underline{\text{L}}$             |            |                     | -3108 Feb 23 j 04:44 | 0° $\text{B}$                    |            |  |
|                     | -3111 Oct 11 j 08:02 | 0° $\mathfrak{M}$                     |            | desc. node          | -3108 Feb 25 j 04:48 | 2° $\text{B}$ 19'55              |            |  |
|                     | -3111 Nov 05 j 03:34 | 0° $\overset{\circ}{\text{A}}$        |            |                     | -3108 Mar 19 j 18:03 | 0° $\approx$                     |            |  |
|                     | -3111 Nov 30 j 17:22 | 0° $\text{B}$                         |            |                     | -3108 Apr 13 j 22:53 | 0° $\text{H}$                    |            |  |
|                     | -3111 Dec 28 j 05:43 | 0° $\approx$                          |            |                     | -3108 May 08 j 20:55 | 0° $\Upsilon$                    |            |  |
| evening max el      | -3111 Dec 30 j 05:45 | 2° $\approx$ 01'34                    | 46°22'13   |                     | -3108 Jun 02 j 12:26 | 0° $\text{X}$                    |            |  |
| asc. node           | -3111 Dec 31 j 07:10 | 3° $\approx$ 05'12                    |            | asc. node           | -3108 Jun 17 j 03:28 | 17° $\text{X}$ 57'41             |            |  |
|                     | -3110 Feb 02 j 21:25 | 0° $\text{H}$                         |            | morning set         | -3108 Jun 22 j 07:29 | 24° $\text{X}$ 20'06             |            |  |
| greatest brilliancy | -3110 Feb 07 j 08:49 | 1° $\text{H}$ 59'44                   | -4.8m      |                     | -3108 Jun 26 j 21:28 | 0° $\Pi$                         |            |  |
| retrograde          | -3110 Feb 18 j 02:56 | 4° $\text{H}$ 08'36                   |            |                     | -3108 Jul 21 j 00:40 | 0° $\text{C}$                    |            |  |
|                     | -3110 Mar 04 j 14:09 | 30° $\mathfrak{R}\approx$             |            | max. Earth dist.    | -3108 Jul 25 j 01:36 | 5° $\text{C}$ 02'41              | 1.71979 AU |  |
| evening set         | -3110 Mar 07 j 15:02 | 28° $\approx$ 14'44                   |            |                     |                      |                                  |            |  |
| inferior conj       | -3110 Mar 11 j 13:12 | 25° $\approx$ 46'43                   | 7°34'18    | superior conj       | -3108 Jul 29 j 01:06 | 10° $\text{C}$ 01'17             | 1°17'45    |  |
| minimum elong       | -3110 Mar 11 j 20:02 | 25° $\approx$ 35'47                   | 7°33'27    | minimum elong       | -3108 Jul 28 j 18:33 | 9° $\text{C}$ 40'47              | 1°17'43    |  |
| min. Earth dist.    | -3110 Mar 11 j 15:57 | 25° $\approx$ 42'18                   | 0.29210 AU |                     | -3108 Aug 13 j 23:42 | 0° $\Omega$                      |            |  |
| morning rise        | -3110 Mar 16 j 01:09 | 22° $\approx$ 57'54                   |            | evening rise        | -3108 Sep 05 j 04:04 | 27° $\Omega$ 51'28               |            |  |
| direct              | -3110 Apr 02 j 03:28 | 17° $\approx$ 23'20                   |            |                     | -3108 Sep 06 j 21:00 | 0° $\mathfrak{M}$                |            |  |
| greatest brilliancy | -3110 Apr 11 j 23:20 | 19° $\approx$ 07'49                   | -4.7m      |                     | -3108 Sep 30 j 18:47 | 0° $\underline{\text{L}}$        |            |  |
| desc. node          | -3110 Apr 22 j 01:48 | 23° $\approx$ 55'32                   |            | desc. node          | -3108 Oct 06 j 21:08 | 7° $\underline{\text{L}}$ 38'19  |            |  |
|                     | -3110 May 01 j 01:45 | 0° $\text{H}$                         |            |                     | -3108 Oct 24 j 18:37 | 0° $\mathfrak{M}$                |            |  |
| morning max el      | -3110 May 20 j 22:13 | 17° $\text{H}$ 06'57                  | 45°48'41   |                     | -3108 Nov 17 j 21:50 | 0° $\overset{\circ}{\text{A}}$   |            |  |
|                     | -3110 Jun 02 j 21:17 | 0° $\Upsilon$                         |            |                     | -3108 Dec 12 j 06:43 | 0° $\text{B}$                    |            |  |
|                     | -3110 Jun 30 j 12:56 | 0° $\text{X}$                         |            |                     | -3107 Jan 06 j 02:17 | 0° $\approx$                     |            |  |
|                     | -3110 Jul 26 j 09:48 | 0° $\Pi$                              |            | asc. node           | -3107 Jan 27 j 18:57 | 25° $\approx$ 26'27              |            |  |
| asc. node           | -3110 Aug 13 j 01:07 | 21° $\Pi$ 10'38                       |            |                     | -3107 Jan 31 j 18:35 | 0° $\text{H}$                    |            |  |
|                     | -3110 Aug 20 j 06:47 | 0° $\text{C}$                         |            |                     | -3107 Feb 28 j 06:52 | 0° $\Upsilon$                    |            |  |
|                     | -3110 Sep 13 j 13:01 | 0° $\Omega$                           |            | evening max el      | -3107 Mar 11 j 02:39 | 10° $\Upsilon$ 47'16             | 45°15'01   |  |
|                     | -3110 Oct 07 j 11:13 | 0° $\mathfrak{M}$                     |            |                     | -3107 Apr 02 j 19:34 | 0° $\text{X}$                    |            |  |
|                     | -3110 Oct 31 j 06:45 | 0° $\underline{\text{L}}$             |            | greatest brilliancy | -3107 Apr 17 j 15:26 | 8° $\text{X}$ 06'34              | -4.7m      |  |
| morning set         | -3110 Nov 19 j 04:14 | 23° $\underline{\text{L}}$ 46'28      |            | retrograde          | -3107 Apr 28 j 10:12 | 10° $\text{X}$ 10'46             |            |  |
|                     | -3110 Nov 24 j 03:10 | 0° $\mathfrak{M}$                     |            | evening set         | -3107 May 13 j 09:30 | 5° $\text{X}$ 53'02              |            |  |
| desc. node          | -3110 Dec 02 j 19:18 | 10° $\mathfrak{M}$ 52'36              |            | inferior conj       | -3107 May 19 j 19:37 | 2° $\text{X}$ 05'10              | -0°03'33   |  |
|                     | -3110 Dec 18 j 02:07 | 0° $\overset{\circ}{\text{A}}$        |            | minimum elong       | -3107 May 19 j 19:29 | 2° $\text{X}$ 05'22              | 0°03'28    |  |
|                     |                      |                                       |            | transit middle      | -3107 May 19 j 19:29 | 2° $\text{X}$ 05'22              | 0°03'28    |  |
| superior conj       | -3110 Dec 31 j 06:37 | 16° $\overset{\circ}{\text{A}}$ 27'12 | -0°59'52   | transit begin       | -3107 May 19 j 15:30 | 2° $\text{X}$ 11'32              |            |  |
| minimum elong       | -3110 Dec 30 j 19:21 | 15° $\overset{\circ}{\text{A}}$ 52'06 | 0°59'35    | transit end         | -3107 May 19 j 23:28 | 1° $\text{X}$ 59'11              |            |  |
| max. Earth dist.    | -3109 Jan 04 j 18:00 | 22° $\overset{\circ}{\text{A}}$ 01'25 | 1.72041 AU | desc. node          | -3107 May 19 j 13:30 | 2° $\text{X}$ 14'38              |            |  |
|                     | -3109 Jan 11 j 03:55 | 0° $\text{B}$                         |            | min. Earth dist.    | -3107 May 20 j 08:22 | 1° $\text{X}$ 45'24              | 0.28833 AU |  |
|                     | -3109 Feb 04 j 08:45 | 0° $\approx$                          |            |                     | -3107 May 23 j 05:20 | 30° $\mathfrak{R}\Upsilon$       |            |  |
| evening rise        | -3109 Feb 09 j 05:04 | 5° $\approx$ 59'11                    |            | morning rise        | -3107 May 26 j 04:58 | 28° $\Upsilon$ 17'02             |            |  |
| greatest brilliancy | -3109 Feb 14 j 08:27 | 12° $\approx$ 19'47                   | -3.9m      | direct              | -3107 Jun 10 j 13:28 | 23° $\Upsilon$ 46'58             |            |  |
|                     | -3109 Feb 28 j 17:08 | 0° $\text{H}$                         |            | greatest brilliancy | -3107 Jun 21 j 13:32 | 25° $\Upsilon$ 57'26             | -4.7m      |  |
|                     | -3109 Mar 25 j 06:04 | 0° $\Upsilon$                         |            |                     | -3107 Jun 29 j 21:37 | 0° $\text{X}$                    |            |  |
| asc. node           | -3109 Mar 25 j 17:10 | 0° $\Upsilon$ 33'47                   |            | morning max el      | -3107 Jul 30 j 02:38 | 24° $\text{X}$ 38'42             | 46°16'05   |  |
|                     | -3109 Apr 19 j 00:40 | 0° $\text{X}$                         |            |                     | -3107 Aug 04 j 11:25 | 0° $\Pi$                         |            |  |
|                     | -3109 May 14 j 02:36 | 0° $\Pi$                              |            |                     | -3107 Sep 01 j 01:35 | 0° $\text{C}$                    |            |  |
|                     | -3109 Jun 08 j 15:11 | 0° $\text{C}$                         |            | asc. node           | -3107 Sep 09 j 12:48 | 9° $\text{C}$ 47'21              |            |  |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |  |                     |  |                      |           |            |  |  |
|---------------------|----------------------|-----------|------------|--|---------------------|--|----------------------|-----------|------------|--|--|
|                     | -3107 Sep 26 j 13:09 | 0°♌       |            |  |                     |  | -3104 Jun 02 j 05:40 | 0°♊       |            |  |  |
|                     | -3107 Oct 21 j 02:29 | 0°♍       |            |  | desc. node          |  | -3104 Jun 16 j 01:13 | 10°♊28'58 |            |  |  |
|                     | -3107 Nov 14 j 06:41 | 0°♋       |            |  | greatest brilliancy |  | -3104 Jun 29 j 10:49 | 17°♊17'16 | -4.8m      |  |  |
|                     | -3107 Dec 08 j 08:51 | 0°♌       |            |  | retrograde          |  | -3104 Jul 09 j 03:15 | 18°♊58'26 |            |  |  |
| desc. node          | -3107 Dec 30 j 07:15 | 27°♌15'25 |            |  | evening set         |  | -3104 Jul 26 j 05:23 | 13°♊34'01 |            |  |  |
|                     | -3106 Jan 01 j 12:20 | 0°♌       |            |  | inferior conj       |  | -3104 Jul 30 j 04:59 | 11°♊11'22 | -8°15'18   |  |  |
|                     | -3106 Jan 25 j 17:58 | 0°♋       |            |  | minimum elong       |  | -3104 Jul 29 j 21:46 | 11°♊22'21 | 8°14'25    |  |  |
| morning set         | -3106 Feb 03 j 12:44 | 10°♋50'35 |            |  | min. Earth dist.    |  | -3104 Jul 30 j 13:50 | 10°♊57'54 | 0.27700 AU |  |  |
|                     | -3106 Feb 19 j 01:32 | 0°♋       |            |  | morning rise        |  | -3104 Aug 02 j 13:54 | 9°♊09'25  |            |  |  |
|                     |                      |           |            |  | direct              |  | -3104 Aug 20 j 07:42 | 3°♊15'38  |            |  |  |
| superior conj       | -3106 Mar 13 j 18:54 | 27°♋57'50 | -1°14'54   |  | greatest brilliancy |  | -3104 Aug 31 j 06:35 | 5°♊28'22  | -4.9m      |  |  |
| minimum elong       | -3106 Mar 14 j 02:22 | 28°♋20'48 | 1°14'48    |  |                     |  | -3104 Oct 03 j 13:44 | 0°♌       |            |  |  |
| max. Earth dist.    | -3106 Mar 14 j 21:34 | 29°♋19'49 | 1.73488 AU |  | asc. node           |  | -3104 Oct 07 j 00:29 | 3°♌23'38  |            |  |  |
|                     | -3106 Mar 15 j 10:39 | 0°♌       |            |  | morning max el      |  | -3104 Oct 09 j 22:09 | 6°♌19'32  | 46°50'07   |  |  |
|                     | -3106 Apr 08 j 20:59 | 0°♍       |            |  |                     |  | -3104 Oct 31 j 19:10 | 0°♍       |            |  |  |
| evening rise        | -3106 Apr 19 j 12:45 | 13°♍04'21 |            |  |                     |  | -3104 Nov 26 j 13:27 | 0°♋       |            |  |  |
| asc. node           | -3106 Apr 22 j 05:26 | 16°♍22'36 |            |  |                     |  | -3104 Dec 21 j 12:54 | 0°♌       |            |  |  |
|                     | -3106 May 03 j 08:16 | 0°♌       |            |  |                     |  | -3103 Jan 15 j 06:29 | 0°♌       |            |  |  |
|                     | -3106 May 27 j 20:27 | 0°♌       |            |  | desc. node          |  | -3103 Jan 26 j 19:06 | 14°♌00'36 |            |  |  |
|                     | -3106 Jun 21 j 10:03 | 0°♊       |            |  |                     |  | -3103 Feb 08 j 22:34 | 0°♋       |            |  |  |
|                     | -3106 Jul 16 j 02:40 | 0°♌       |            |  |                     |  | -3103 Mar 05 j 14:03 | 0°♋       |            |  |  |
|                     | -3106 Aug 10 j 01:11 | 0°♍       |            |  |                     |  | -3103 Mar 30 j 04:35 | 0°♌       |            |  |  |
| desc. node          | -3106 Aug 11 j 22:45 | 2°♍16'00  |            |  | morning set         |  | -3103 Apr 14 j 04:15 | 18°♌18'42 |            |  |  |
|                     | -3106 Sep 04 j 10:43 | 0°♋       |            |  |                     |  | -3103 Apr 23 j 17:30 | 0°♍       |            |  |  |
|                     | -3106 Sep 30 j 19:26 | 0°♌       |            |  | max. Earth dist.    |  | -3103 May 17 j 04:24 | 28°♍47'03 | 1.73520 AU |  |  |
| evening max el      | -3106 Oct 17 j 22:39 | 18°♌15'55 | 47°31'44   |  |                     |  | -3103 May 18 j 04:08 | 0°♌       |            |  |  |
|                     | -3106 Oct 29 j 23:20 | 0°♌       |            |  | asc. node           |  | -3103 May 19 j 17:31 | 1°♌54'58  |            |  |  |
| greatest brilliancy | -3106 Nov 27 j 09:37 | 20°♌05'25 | -4.9m      |  |                     |  |                      |           |            |  |  |
| asc. node           | -3106 Dec 02 j 21:29 | 21°♌44'10 |            |  | superior conj       |  | -3103 May 20 j 03:25 | 2°♌25'27  | 0°00'59    |  |  |
| retrograde          | -3106 Dec 08 j 01:41 | 22°♌16'25 |            |  | minimum elong       |  | -3103 May 20 j 03:12 | 2°♌24'44  | 0°01'01    |  |  |
| evening set         | -3106 Dec 23 j 11:48 | 17°♌26'31 |            |  | behind sun begin    |  | -3103 May 19 j 05:12 | 1°♌17'06  |            |  |  |
| min. Earth dist.    | -3106 Dec 27 j 18:55 | 14°♌49'26 | 0.27494 AU |  | behind sun end      |  | -3103 May 21 j 01:11 | 3°♌32'23  |            |  |  |
| inferior conj       | -3106 Dec 28 j 22:03 | 14°♌06'39 | 5°53'11    |  |                     |  | -3103 Jun 11 j 12:02 | 0°♌       |            |  |  |
| minimum elong       | -3106 Dec 28 j 12:34 | 14°♌21'37 | 5°50'59    |  | evening rise        |  | -3103 Jun 24 j 18:24 | 16°♌24'46 |            |  |  |
| morning rise        | -3105 Jan 02 j 14:09 | 11°♌15'07 |            |  |                     |  | -3103 Jul 05 j 17:29 | 0°♊       |            |  |  |
| direct              | -3105 Jan 18 j 14:10 | 6°♌12'55  |            |  |                     |  | -3103 Jul 29 j 21:35 | 0°♌       |            |  |  |
| greatest brilliancy | -3105 Jan 27 j 07:50 | 7°♌39'36  | -4.8m      |  |                     |  | -3103 Aug 23 j 02:08 | 0°♍       |            |  |  |
|                     | -3105 Mar 01 j 10:06 | 0°♋       |            |  | desc. node          |  | -3103 Sep 08 j 11:01 | 20°♍14'15 |            |  |  |
| morning max el      | -3105 Mar 08 j 17:17 | 6°♋49'55  | 46°02'09   |  |                     |  | -3103 Sep 16 j 09:08 | 0°♋       |            |  |  |
| desc. node          | -3105 Mar 24 j 16:28 | 22°♋54'30 |            |  |                     |  | -3103 Oct 10 j 20:50 | 0°♌       |            |  |  |
|                     | -3105 Mar 31 j 09:21 | 0°♋       |            |  |                     |  | -3103 Nov 04 j 17:24 | 0°♌       |            |  |  |
|                     | -3105 Apr 27 j 12:42 | 0°♌       |            |  |                     |  | -3103 Nov 30 j 09:11 | 0°♋       |            |  |  |
|                     | -3105 May 23 j 12:01 | 0°♍       |            |  | evening max el      |  | -3103 Dec 27 j 19:56 | 29°♋42'12 | 46°25'21   |  |  |
|                     | -3105 Jun 17 j 18:03 | 0°♌       |            |  |                     |  | -3103 Dec 28 j 03:00 | 0°♋       |            |  |  |
|                     | -3105 Jul 12 j 10:56 | 0°♌       |            |  | asc. node           |  | -3103 Dec 30 j 09:15 | 2°♋15'09  |            |  |  |
| asc. node           | -3105 Jul 15 j 15:21 | 3°♌54'29  |            |  | greatest brilliancy |  | -3102 Feb 05 j 01:56 | 29°♋50'17 | -4.8m      |  |  |
|                     | -3105 Aug 05 j 17:21 | 0°♊       |            |  |                     |  | -3102 Feb 05 j 12:15 | 0°♌       |            |  |  |
|                     | -3105 Aug 29 j 16:23 | 0°♌       |            |  | retrograde          |  | -3102 Feb 15 j 19:52 | 1°♌59'41  |            |  |  |
| morning set         | -3105 Sep 01 j 16:53 | 3°♌48'04  |            |  |                     |  | -3102 Feb 25 j 17:47 | 30°♌      |            |  |  |
|                     | -3105 Sep 22 j 11:34 | 0°♍       |            |  | evening set         |  | -3102 Mar 05 j 09:49 | 26°♋02'33 |            |  |  |
|                     |                      |           |            |  | inferior conj       |  | -3102 Mar 09 j 06:08 | 23°♋37'30 | 7°41'56    |  |  |
| superior conj       | -3105 Oct 11 j 11:36 | 23°♍58'58 | 0°52'10    |  | minimum elong       |  | -3102 Mar 09 j 12:29 | 23°♋27'21 | 7°41'13    |  |  |
| minimum elong       | -3105 Oct 11 j 22:36 | 24°♍33'40 | 0°51'45    |  | min. Earth dist.    |  | -3102 Mar 09 j 08:00 | 23°♋34'30 | 0.29190 AU |  |  |
| max. Earth dist.    | -3105 Oct 13 j 08:31 | 26°♍20'37 | 1.70893 AU |  | morning rise        |  | -3102 Mar 13 j 15:15 | 20°♋52'58 |            |  |  |
|                     | -3105 Oct 16 j 06:07 | 0°♋       |            |  | direct              |  | -3102 Mar 30 j 19:20 | 15°♋14'21 |            |  |  |
| desc. node          | -3105 Nov 04 j 09:20 | 24°♋05'37 |            |  | greatest brilliancy |  | -3102 Apr 09 j 14:57 | 16°♋58'34 | -4.7m      |  |  |
|                     | -3105 Nov 09 j 02:10 | 0°♌       |            |  | desc. node          |  | -3102 Apr 21 j 03:57 | 22°♋37'56 |            |  |  |
| evening rise        | -3105 Nov 22 j 20:46 | 17°♌16'34 |            |  |                     |  | -3102 May 01 j 13:10 | 0°♌       |            |  |  |
|                     | -3105 Dec 03 j 00:51 | 0°♌       |            |  | morning max el      |  | -3102 May 18 j 14:05 | 14°♌56'52 | 45°48'26   |  |  |
|                     | -3105 Dec 27 j 02:57 | 0°♋       |            |  |                     |  | -3102 Jun 02 j 15:34 | 0°♍       |            |  |  |
|                     | -3104 Jan 20 j 09:56 | 0°♋       |            |  |                     |  | -3102 Jun 30 j 03:25 | 0°♌       |            |  |  |
|                     | -3104 Feb 14 j 00:30 | 0°♌       |            |  |                     |  | -3102 Jul 25 j 22:43 | 0°♌       |            |  |  |
| asc. node           | -3104 Feb 25 j 07:06 | 13°♌34'01 |            |  | asc. node           |  | -3102 Aug 12 j 03:14 | 20°♌39'39 |            |  |  |
|                     | -3104 Mar 10 j 02:52 | 0°♍       |            |  |                     |  | -3102 Aug 19 j 18:56 | 0°♊       |            |  |  |
|                     | -3104 Apr 04 j 23:56 | 0°♌       |            |  |                     |  | -3102 Sep 13 j 00:46 | 0°♌       |            |  |  |
|                     | -3104 May 02 j 06:37 | 0°♌       |            |  |                     |  | -3102 Oct 06 j 22:45 | 0°♍       |            |  |  |
| evening max el      | -3104 May 21 j 07:38 | 19°♌13'01 | 45°29'13   |  |                     |  | -3102 Oct 30 j 18:10 | 0°♋       |            |  |  |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                |            |                     |                      |                              |            |
|---------------------|----------------------|--------------------------------|------------|---------------------|----------------------|------------------------------|------------|
| morning set         | -3102 Nov 16 j 13:44 | 21° $\Omega$ 09'48             |            | retrograde          | -3099 Apr 26 j 02:24 | 8° $\Theta$ 01'29            |            |
|                     | -3102 Nov 23 j 14:31 | 0° $\mathbb{L}$                |            | evening set         | -3099 May 11 j 02:34 | 3° $\mathcal{B}$ 42'40       |            |
| desc. node          | -3102 Dec 01 j 21:16 | 10° $\mathbb{L}$ 23'20         |            | inferior conj       | -3099 May 17 j 11:47 | 29° $\Upsilon$ 55'21         | 0°16'06    |
|                     | -3102 Dec 17 j 13:23 | 0° $\mathcal{A}$               |            | minimum elong       | -3099 May 17 j 12:23 | 29° $\Upsilon$ 54'26         | 0°15'59    |
|                     |                      |                                |            | transit middle      | -3099 May 17 j 12:23 | 29° $\Upsilon$ 54'26         | 0°15'59    |
| superior conj       | -3102 Dec 28 j 17:16 | 13° $\mathcal{A}$ 55'52        | -0°57'07   | transit begin       | -3099 May 17 j 11:44 | 29° $\Upsilon$ 55'27         |            |
| minimum elong       | -3102 Dec 28 j 05:59 | 13° $\mathcal{A}$ 20'41        | 0°56'48    | transit end         | -3099 May 17 j 13:03 | 29° $\Upsilon$ 53'24         |            |
| max. Earth dist.    | -3101 Jan 02 j 03:00 | 19° $\mathcal{A}$ 25'07        | 1.71984 AU |                     | -3099 May 17 j 08:48 | 30° $\mathcal{R}$ $\Upsilon$ |            |
|                     | -3101 Jan 10 j 15:08 | 0° $\mathcal{Z}$               |            | min. Earth dist.    | -3099 May 18 j 00:33 | 29° $\Upsilon$ 35'33         | 0.28861 AU |
|                     | -3101 Feb 03 j 19:55 | 0° $\approx$                   |            | desc. node          | -3099 May 18 j 15:32 | 29° $\Upsilon$ 12'20         |            |
| evening rise        | -3101 Feb 06 j 19:03 | 3° $\approx$ 39'42             |            | morning rise        | -3099 May 23 j 21:48 | 26° $\Upsilon$ 06'02         |            |
| greatest brilliancy | -3101 Feb 10 j 10:35 | 8° $\approx$ 09'48             | -3.9m      | direct              | -3099 Jun 08 j 06:24 | 21° $\Upsilon$ 36'50         |            |
|                     | -3101 Feb 28 j 04:21 | 0° $\mathcal{H}$               |            | greatest brilliancy | -3099 Jun 19 j 04:44 | 23° $\Upsilon$ 45'47         | -4.7m      |
| asc. node           | -3101 Mar 24 j 19:24 | 0° $\Upsilon$ 05'53            |            |                     | -3099 Jul 01 j 02:14 | 0° $\mathcal{B}$             |            |
|                     | -3101 Mar 24 j 17:28 | 0° $\Upsilon$                  |            | morning max el      | -3099 Jul 27 j 18:13 | 22° $\mathcal{B}$ 24'48      | 46°14'39   |
|                     | -3101 Apr 18 j 12:29 | 0° $\mathcal{B}$               |            |                     | -3099 Aug 04 j 07:37 | 0° $\mathbb{I}$              |            |
|                     | -3101 May 13 j 15:09 | 0° $\mathbb{I}$                |            |                     | -3099 Aug 31 j 16:57 | 0° $\mathcal{G}$             |            |
|                     | -3101 Jun 08 j 05:05 | 0° $\mathcal{G}$               |            | asc. node           | -3099 Sep 08 j 15:05 | 9° $\mathcal{G}$ 11'09       |            |
|                     | -3101 Jul 04 j 15:01 | 0° $\Omega$                    |            |                     | -3099 Sep 26 j 02:43 | 0° $\Omega$                  |            |
| desc. node          | -3101 Jul 14 j 12:52 | 10° $\Omega$ 50'25             |            |                     | -3099 Oct 20 j 15:13 | 0° $\mathbb{M}$              |            |
|                     | -3101 Aug 01 j 22:56 | 0° $\mathbb{M}$                |            |                     | -3099 Nov 13 j 18:55 | 0° $\mathcal{A}$             |            |
| evening max el      | -3101 Aug 03 j 17:16 | 1° $\mathbb{M}$ 44'29          | 46°52'00   |                     | -3099 Dec 07 j 20:44 | 0° $\mathbb{L}$              |            |
|                     | -3101 Sep 08 j 12:53 | 0° $\mathcal{A}$               |            | desc. node          | -3099 Dec 29 j 09:21 | 26° $\mathbb{L}$ 45'54       |            |
| greatest brilliancy | -3101 Sep 13 j 19:39 | 2° $\mathcal{A}$ 09'45         | -4.9m      |                     | -3099 Dec 31 j 23:55 | 0° $\mathcal{A}$             |            |
| retrograde          | -3101 Sep 22 j 22:24 | 3° $\mathcal{A}$ 44'07         |            |                     | -3098 Jan 25 j 05:19 | 0° $\mathcal{Z}$             |            |
|                     | -3101 Oct 06 j 15:28 | 30° $\mathcal{R}$ $\mathbb{M}$ |            | morning set         | -3098 Feb 01 j 02:03 | 8° $\mathcal{Z}$ 28'43       |            |
| evening set         | -3101 Oct 08 j 14:54 | 28° $\mathbb{M}$ 56'21         |            |                     | -3098 Feb 18 j 12:43 | 0° $\approx$                 |            |
| inferior conj       | -3101 Oct 13 j 11:56 | 26° $\mathbb{M}$ 03'41         | -5°19'24   |                     |                      |                              |            |
| minimum elong       | -3101 Oct 13 j 22:06 | 25° $\mathbb{M}$ 48'17         | 5°16'44    | superior conj       | -3098 Mar 11 j 11:33 | 25° $\approx$ 47'18          | -1°16'20   |
| min. Earth dist.    | -3101 Oct 13 j 17:32 | 25° $\mathbb{M}$ 55'12         | 0.26413 AU | minimum elong       | -3098 Mar 11 j 18:37 | 26° $\approx$ 09'04          | 1°16'15    |
| morning rise        | -3101 Oct 19 j 05:07 | 22° $\mathbb{M}$ 43'21         |            | max. Earth dist.    | -3098 Mar 12 j 19:53 | 27° $\approx$ 26'46          | 1.73456 AU |
| direct              | -3101 Nov 02 j 18:37 | 18° $\mathbb{M}$ 28'13         |            |                     | -3098 Mar 14 j 21:44 | 0° $\mathcal{H}$             |            |
| asc. node           | -3101 Nov 04 j 11:53 | 18° $\mathbb{M}$ 31'50         |            |                     | -3098 Apr 08 j 08:04 | 0° $\Upsilon$                |            |
| greatest brilliancy | -3101 Nov 13 j 04:50 | 20° $\mathbb{M}$ 32'57         | -4.9m      | evening rise        | -3098 Apr 17 j 07:20 | 11° $\Upsilon$ 00'05         |            |
|                     | -3101 Nov 29 j 07:22 | 0° $\mathcal{A}$               |            | asc. node           | -3098 Apr 21 j 07:28 | 15° $\Upsilon$ 54'46         |            |
| morning max el      | -3101 Dec 23 j 06:25 | 21° $\mathcal{A}$ 35'51        | 46°41'44   |                     | -3098 May 02 j 19:28 | 0° $\mathcal{B}$             |            |
|                     | -3101 Dec 31 j 10:02 | 0° $\mathbb{L}$                |            |                     | -3098 May 27 j 07:53 | 0° $\mathbb{I}$              |            |
|                     | -3100 Jan 27 j 17:19 | 0° $\mathcal{A}$               |            |                     | -3098 Jun 20 j 21:54 | 0° $\mathcal{G}$             |            |
|                     | -3100 Feb 22 j 18:31 | 0° $\mathcal{Z}$               |            |                     | -3098 Jul 15 j 15:11 | 0° $\Omega$                  |            |
| desc. node          | -3100 Feb 24 j 06:58 | 1° $\mathcal{Z}$ 46'19         |            |                     | -3098 Aug 09 j 14:40 | 0° $\mathbb{M}$              |            |
|                     | -3100 Mar 19 j 06:39 | 0° $\approx$                   |            | desc. node          | -3098 Aug 11 j 00:58 | 1° $\mathbb{M}$ 42'09        |            |
|                     | -3100 Apr 13 j 10:45 | 0° $\mathcal{H}$               |            |                     | -3098 Sep 04 j 01:52 | 0° $\mathcal{A}$             |            |
|                     | -3100 May 08 j 08:21 | 0° $\Upsilon$                  |            |                     | -3098 Sep 30 j 13:59 | 0° $\mathbb{L}$              |            |
|                     | -3100 Jun 01 j 23:37 | 0° $\mathcal{B}$               |            | evening max el      | -3098 Oct 15 j 13:59 | 15° $\mathbb{L}$ 54'17       | 47°32'13   |
| asc. node           | -3100 Jun 16 j 05:31 | 17° $\mathcal{B}$ 29'54        |            |                     | -3098 Oct 30 j 05:11 | 0° $\mathcal{A}$             |            |
| morning set         | -3100 Jun 20 j 01:34 | 22° $\mathcal{B}$ 13'35        |            | greatest brilliancy | -3098 Nov 25 j 01:32 | 17° $\mathcal{A}$ 42'54      | -4.9m      |
|                     | -3100 Jun 26 j 08:32 | 0° $\mathbb{I}$                |            | asc. node           | -3098 Dec 01 j 23:35 | 19° $\mathcal{A}$ 35'49      |            |
|                     | -3100 Jul 20 j 11:45 | 0° $\mathcal{G}$               |            | retrograde          | -3098 Dec 05 j 16:19 | 19° $\mathcal{A}$ 52'23      |            |
| max. Earth dist.    | -3100 Jul 22 j 16:36 | 2° $\mathcal{G}$ 44'58         | 1.72041 AU | evening set         | -3098 Dec 20 j 23:39 | 15° $\mathcal{A}$ 07'25      |            |
|                     |                      |                                |            | min. Earth dist.    | -3098 Dec 25 j 09:23 | 12° $\mathcal{A}$ 26'34      | 0.27414 AU |
| superior conj       | -3100 Jul 26 j 17:35 | 7° $\mathcal{G}$ 47'54         | 1°16'24    | inferior conj       | -3098 Dec 26 j 12:20 | 11° $\mathcal{A}$ 44'02      | 5°37'22    |
| minimum elong       | -3100 Jul 26 j 10:35 | 7° $\mathcal{G}$ 26'01         | 1°16'23    | minimum elong       | -3098 Dec 26 j 02:56 | 11° $\mathcal{A}$ 58'52      | 5°35'05    |
|                     | -3100 Aug 13 j 10:55 | 0° $\Omega$                    |            | morning rise        | -3098 Dec 31 j 07:03 | 8° $\mathcal{A}$ 48'42       |            |
| evening rise        | -3100 Sep 02 j 16:41 | 25° $\Omega$ 24'41             |            | direct              | -3097 Jan 16 j 03:51 | 3° $\mathcal{A}$ 51'51       |            |
|                     | -3100 Sep 06 j 08:23 | 0° $\mathbb{M}$                |            | greatest brilliancy | -3097 Jan 24 j 21:48 | 5° $\mathcal{A}$ 18'38       | -4.8m      |
|                     | -3100 Sep 30 j 06:21 | 0° $\mathcal{A}$               |            |                     | -3097 Mar 01 j 12:26 | 0° $\mathcal{Z}$             |            |
| desc. node          | -3100 Oct 05 j 23:15 | 7° $\mathcal{A}$ 08'37         |            | morning max el      | -3097 Mar 06 j 06:37 | 4° $\mathcal{Z}$ 30'18       | 46°03'14   |
|                     | -3100 Oct 24 j 06:23 | 0° $\mathbb{L}$                |            | desc. node          | -3097 Mar 23 j 18:38 | 22° $\mathcal{Z}$ 12'03      |            |
|                     | -3100 Nov 17 j 09:50 | 0° $\mathcal{A}$               |            |                     | -3097 Mar 31 j 02:25 | 0° $\approx$                 |            |
|                     | -3100 Dec 11 j 19:09 | 0° $\mathcal{Z}$               |            |                     | -3097 Apr 27 j 02:47 | 0° $\mathcal{H}$             |            |
|                     | -3099 Jan 05 j 15:29 | 0° $\approx$                   |            |                     | -3097 May 23 j 00:41 | 0° $\Upsilon$                |            |
| asc. node           | -3099 Jan 26 j 21:07 | 24° $\approx$ 50'58            |            |                     | -3097 Jun 17 j 05:58 | 0° $\mathcal{B}$             |            |
|                     | -3099 Jan 31 j 09:28 | 0° $\mathcal{H}$               |            |                     | -3097 Jul 11 j 22:25 | 0° $\mathbb{I}$              |            |
|                     | -3099 Feb 28 j 02:11 | 0° $\Upsilon$                  |            | asc. node           | -3097 Jul 14 j 17:31 | 3° $\mathbb{I}$ 25'55        |            |
| evening max el      | -3099 Mar 08 j 19:13 | 8° $\Upsilon$ 37'52            | 45°16'11   |                     | -3097 Aug 05 j 04:38 | 0° $\mathcal{G}$             |            |
|                     | -3099 Apr 03 j 16:54 | 0° $\mathcal{B}$               |            |                     | -3097 Aug 29 j 03:36 | 0° $\Omega$                  |            |
| greatest brilliancy | -3099 Apr 15 j 07:29 | 5° $\mathcal{B}$ 57'30         | -4.7m      | morning set         | -3097 Aug 30 j 06:39 | 1° $\Omega$ 25'05            |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3097 Sep 21 j 22:47 | 0°♎       |            | minimum elong       | -3094 Mar 07 j 04:54 | 21°≈18'53 | 7°48'24    |
|                     |                      |           |            | min. Earth dist.    | -3094 Mar 06 j 23:43 | 21°≈27'10 | 0.29171 AU |
| superior conj       | -3097 Oct 08 j 22:09 | 21°♎25'29 | 0°55'10    | morning rise        | -3094 Mar 11 j 05:27 | 18°≈48'00 |            |
| minimum elong       | -3097 Oct 09 j 09:19 | 22°♎00'41 | 0°54'47    | direct              | -3094 Mar 28 j 11:30 | 13°≈05'20 |            |
| max. Earth dist.    | -3097 Oct 10 j 09:34 | 23°♎17'09 | 1.70894 AU | greatest brilliancy | -3094 Apr 07 j 06:13 | 14°≈49'02 | -4.7m      |
|                     | -3097 Oct 15 j 17:22 | 0°♏       |            | desc. node          | -3094 Apr 20 j 05:56 | 21°≈22'32 |            |
| desc. node          | -3097 Nov 03 j 11:20 | 23°♏36'22 |            |                     | -3094 May 01 j 21:34 | 0°♐       |            |
|                     | -3097 Nov 08 j 13:29 | 0°♐       |            | morning max el      | -3094 May 16 j 06:52 | 12°♐49'12 | 45°48'13   |
| evening rise        | -3097 Nov 20 j 05:47 | 14°♐38'55 |            |                     | -3094 Jun 02 j 09:20 | 0°♑       |            |
|                     | -3097 Dec 02 j 12:14 | 0°♑       |            |                     | -3094 Jun 29 j 17:37 | 0°♒       |            |
|                     | -3097 Dec 26 j 14:26 | 0°♒       |            |                     | -3094 Jul 25 j 11:26 | 0°♓       |            |
|                     | -3096 Jan 19 j 21:35 | 0°≈       |            | asc. node           | -3094 Aug 11 j 05:26 | 20°♓09'24 |            |
|                     | -3096 Feb 13 j 12:30 | 0°♐       |            |                     | -3094 Aug 19 j 06:55 | 0°♑       |            |
| asc. node           | -3096 Feb 24 j 09:18 | 13°♐03'52 |            |                     | -3094 Sep 12 j 12:21 | 0°♒       |            |
|                     | -3096 Mar 09 j 15:38 | 0°♑       |            |                     | -3094 Oct 06 j 10:08 | 0°♎       |            |
|                     | -3096 Apr 04 j 14:16 | 0°♒       |            |                     | -3094 Oct 30 j 05:25 | 0°♏       |            |
|                     | -3096 May 02 j 00:41 | 0°♓       |            | morning set         | -3094 Nov 13 j 23:44 | 18°♏35'10 |            |
| evening max el      | -3096 May 18 j 20:46 | 16°♓53'45 | 45°27'14   |                     | -3094 Nov 23 j 01:40 | 0°♐       |            |
|                     | -3096 Jun 02 j 13:43 | 0°♑       |            | desc. node          | -3094 Nov 30 j 23:26 | 9°♐55'19  |            |
| desc. node          | -3096 Jun 15 j 03:19 | 9°♑08'26  |            |                     | -3094 Dec 17 j 00:26 | 0°♑       |            |
| greatest brilliancy | -3096 Jun 26 j 23:12 | 14°♑57'00 | -4.8m      |                     |                      |           |            |
| retrograde          | -3096 Jul 06 j 16:19 | 16°♑39'06 |            | superior conj       | -3094 Dec 26 j 04:10 | 11°♑25'53 | -0°54'16   |
| evening set         | -3096 Jul 23 j 15:08 | 11°♑19'37 |            | minimum elong       | -3094 Dec 25 j 16:56 | 10°♑50'53 | 0°53'56    |
| inferior conj       | -3096 Jul 27 j 18:43 | 8°♑51'27  | -8°06'25   | max. Earth dist.    | -3094 Dec 30 j 13:52 | 16°♑55'20 | 1.71927 AU |
| minimum elong       | -3096 Jul 27 j 10:53 | 9°♑03'23  | 8°05'22    |                     | -3093 Jan 10 j 02:05 | 0°♒       |            |
| min. Earth dist.    | -3096 Jul 28 j 03:40 | 8°♑37'51  | 0.27746 AU |                     | -3093 Feb 03 j 06:50 | 0°≈       |            |
| morning rise        | -3096 Jul 31 j 06:20 | 6°♑45'34  |            | evening rise        | -3093 Feb 04 j 09:17 | 1°≈21'42  |            |
| direct              | -3096 Aug 17 j 21:27 | 0°♑54'36  |            | greatest brilliancy | -3093 Feb 08 j 04:57 | 6°≈04'42  | -3.9m      |
| greatest brilliancy | -3096 Aug 28 j 21:53 | 3°♑08'20  | -4.9m      |                     | -3093 Feb 27 j 15:20 | 0°♐       |            |
|                     | -3096 Oct 03 j 14:29 | 0°♒       |            | asc. node           | -3093 Mar 23 j 21:24 | 29°♐37'54 |            |
| asc. node           | -3096 Oct 06 j 02:29 | 2°♒29'54  |            |                     | -3093 Mar 24 j 04:40 | 0°♑       |            |
| morning max el      | -3096 Oct 07 j 11:27 | 3°♒53'31  | 46°49'41   |                     | -3093 Apr 18 j 00:07 | 0°♒       |            |
|                     | -3096 Oct 31 j 12:10 | 0°♎       |            |                     | -3093 May 13 j 03:34 | 0°♓       |            |
|                     | -3096 Nov 26 j 03:50 | 0°♏       |            |                     | -3093 Jun 07 j 18:52 | 0°♑       |            |
|                     | -3096 Dec 21 j 01:59 | 0°♐       |            |                     | -3093 Jul 04 j 07:31 | 0°♒       |            |
|                     | -3095 Jan 14 j 18:48 | 0°♑       |            | desc. node          | -3093 Jul 13 j 15:05 | 10°♒07'33 |            |
| desc. node          | -3095 Jan 25 j 21:17 | 13°♑30'36 |            | evening max el      | -3093 Aug 01 j 07:02 | 29°♒22'09 | 46°49'04   |
|                     | -3095 Feb 08 j 10:22 | 0°♒       |            |                     | -3093 Aug 01 j 22:30 | 0°♎       |            |
|                     | -3095 Mar 05 j 01:27 | 0°≈       |            | greatest brilliancy | -3093 Sep 11 j 07:30 | 29°♎39'42 | -4.9m      |
|                     | -3095 Mar 29 j 15:40 | 0°♐       |            |                     | -3093 Sep 12 j 09:28 | 0°♏       |            |
| morning set         | -3095 Apr 11 j 22:34 | 16°♐14'21 |            | retrograde          | -3093 Sep 20 j 10:49 | 1°♏13'57  |            |
|                     | -3095 Apr 23 j 04:24 | 0°♑       |            |                     | -3093 Sep 28 j 05:03 | 30°♒♎     |            |
| max. Earth dist.    | -3095 May 15 j 02:35 | 26°♑54'17 | 1.73551 AU | evening set         | -3093 Oct 06 j 06:02 | 26°♎21'50 |            |
|                     |                      |           |            | inferior conj       | -3093 Oct 10 j 23:49 | 23°♎33'39 | -5°39'01   |
| superior conj       | -3095 May 17 j 22:15 | 0°♒22'20  | -0°02'07   | minimum elong       | -3093 Oct 11 j 10:16 | 23°♎17'48 | 5°36'22    |
| minimum elong       | -3095 May 17 j 22:40 | 0°♒23'37  | 0°02'03    | min. Earth dist.    | -3093 Oct 11 j 06:03 | 23°♎24'12 | 0.26434 AU |
| behind sun begin    | -3095 May 17 j 00:44 | 29°♑16'10 |            | morning rise        | -3093 Oct 16 j 14:24 | 20°♎17'08 |            |
| behind sun end      | -3095 May 18 j 20:36 | 1°♒31'04  |            | direct              | -3093 Oct 31 j 07:32 | 15°♎58'05 |            |
|                     | -3095 May 17 j 15:00 | 0°♒       |            | asc. node           | -3093 Nov 03 j 14:00 | 16°♎11'04 |            |
| asc. node           | -3095 May 18 j 19:34 | 1°♒27'55  |            | greatest brilliancy | -3093 Nov 10 j 17:32 | 18°♎03'04 | -4.9m      |
|                     | -3095 Jun 10 j 22:59 | 0°♓       |            |                     | -3093 Nov 30 j 00:22 | 0°♏       |            |
| evening rise        | -3095 Jun 22 j 13:12 | 14°♓20'17 |            | morning max el      | -3093 Dec 20 j 20:41 | 19°♏12'43 | 46°42'56   |
|                     | -3095 Jul 05 j 04:36 | 0°♑       |            |                     | -3093 Dec 31 j 06:05 | 0°♐       |            |
|                     | -3095 Jul 29 j 08:58 | 0°♒       |            |                     | -3092 Jan 27 j 08:40 | 0°♑       |            |
|                     | -3095 Aug 22 j 13:51 | 0°♎       |            |                     | -3092 Feb 22 j 07:48 | 0°♒       |            |
| desc. node          | -3095 Sep 07 j 13:08 | 19°♎43'41 |            | desc. node          | -3092 Feb 23 j 09:08 | 1°♒14'02  |            |
|                     | -3095 Sep 15 j 21:18 | 0°♏       |            |                     | -3092 Mar 18 j 18:48 | 0°≈       |            |
|                     | -3095 Oct 10 j 09:37 | 0°♐       |            |                     | -3092 Apr 12 j 22:15 | 0°♐       |            |
|                     | -3095 Nov 04 j 07:12 | 0°♑       |            |                     | -3092 May 07 j 19:26 | 0°♑       |            |
|                     | -3095 Nov 30 j 01:03 | 0°♒       |            |                     | -3092 Jun 01 j 10:29 | 0°♒       |            |
| evening max el      | -3095 Dec 25 j 10:52 | 27°♒25'08 | 46°28'24   | asc. node           | -3092 Jun 15 j 07:44 | 17°♒03'32 |            |
|                     | -3095 Dec 28 j 00:54 | 0°≈       |            | morning set         | -3092 Jun 17 j 19:42 | 20°♒08'16 |            |
| asc. node           | -3095 Dec 29 j 11:24 | 1°≈24'49  |            |                     | -3092 Jun 25 j 19:18 | 0°♓       |            |
| greatest brilliancy | -3094 Feb 02 j 18:29 | 27°≈40'16 | -4.8m      |                     | -3092 Jul 19 j 22:31 | 0°♑       |            |
| retrograde          | -3094 Feb 13 j 13:19 | 29°≈50'53 |            | max. Earth dist.    | -3092 Jul 20 j 05:56 | 0°♑23'09  | 1.72101 AU |
| evening set         | -3094 Mar 03 j 04:29 | 23°≈50'31 |            |                     |                      |           |            |
| inferior conj       | -3094 Mar 06 j 23:04 | 21°≈28'13 | 7°49'01    | superior conj       | -3092 Jul 24 j 10:09 | 5°♑36'00  | 1°14'58    |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                               |            |                     |                      |                                |            |
|---------------------|----------------------|-------------------------------|------------|---------------------|----------------------|--------------------------------|------------|
| minimum elong       | -3092 Jul 24 j 02:46 | 5° $\ominus$ 12'55            | 1°14'54    | greatest brilliancy | -3089 Jan 22 j 12:21 | 2° $\nearrow$ 58'55            | -4.8m      |
|                     | -3092 Aug 12 j 21:47 | 0° $\Omega$                   |            |                     | -3089 Mar 01 j 13:02 | 0° $\beth$                     |            |
| evening rise        | -3092 Aug 31 j 05:30 | 22° $\Omega$ 59'35            |            | morning max el      | -3089 Mar 03 j 19:43 | 2° $\beth$ 10'47               | 46°04'31   |
|                     | -3092 Sep 05 j 19:26 | 0° $\P$                       |            | desc. node          | -3089 Mar 22 j 20:35 | 21° $\beth$ 30'36              |            |
|                     | -3092 Sep 29 j 17:36 | 0° $\underline{\Omega}$       |            |                     | -3089 Mar 30 j 18:48 | 0° $\approx$                   |            |
| desc. node          | -3092 Oct 05 j 01:14 | 6° $\underline{\Omega}$ 39'27 |            |                     | -3089 Apr 26 j 16:20 | 0° $\text{H}$                  |            |
|                     | -3092 Oct 23 j 17:52 | 0° $\mathbb{M}$               |            |                     | -3089 May 22 j 12:53 | 0° $\Upsilon$                  |            |
|                     | -3092 Nov 16 j 21:34 | 0° $\nearrow$                 |            |                     | -3089 Jun 16 j 17:27 | 0° $\text{B}$                  |            |
|                     | -3092 Dec 11 j 07:17 | 0° $\beth$                    |            |                     | -3089 Jul 11 j 09:33 | 0° $\Pi$                       |            |
|                     | -3091 Jan 05 j 04:23 | 0° $\approx$                  |            | asc. node           | -3089 Jul 13 j 19:41 | 2° $\Pi$ 58'31                 |            |
| asc. node           | -3091 Jan 25 j 23:19 | 24° $\approx$ 16'42           |            |                     | -3089 Aug 04 j 15:37 | 0° $\ominus$                   |            |
|                     | -3091 Jan 31 j 00:04 | 0° $\text{H}$                 |            | morning set         | -3089 Aug 27 j 20:23 | 29° $\ominus$ 02'51            |            |
|                     | -3091 Feb 27 j 21:30 | 0° $\Upsilon$                 |            |                     | -3089 Aug 28 j 14:33 | 0° $\Omega$                    |            |
| evening max el      | -3091 Mar 06 j 11:24 | 6° $\Upsilon$ 28'55           | 45°17'22   |                     | -3089 Sep 21 j 09:46 | 0° $\P$                        |            |
|                     | -3091 Apr 04 j 21:10 | 0° $\text{B}$                 |            |                     |                      |                                |            |
| greatest brilliancy | -3091 Apr 13 j 00:07 | 3° $\text{B}$ 50'45           | -4.7m      | superior conj       | -3089 Oct 06 j 08:34 | 18° $\P$ 52'14                 | 0°58'04    |
| retrograde          | -3091 Apr 23 j 18:16 | 5° $\text{B}$ 54'03           |            | minimum elong       | -3089 Oct 06 j 19:48 | 19° $\P$ 27'41                 | 0°57'41    |
| evening set         | -3091 May 08 j 19:57 | 1° $\text{B}$ 33'56           |            | max. Earth dist.    | -3089 Oct 07 j 11:27 | 20° $\P$ 17'02                 | 1.70899 AU |
|                     | -3091 May 11 j 13:46 | 30° $\text{R}\Upsilon$        |            |                     | -3089 Oct 15 j 04:23 | 0° $\underline{\Omega}$        |            |
| inferior conj       | -3091 May 15 j 04:12 | 27° $\Upsilon$ 47'27          | 0°35'36    | desc. node          | -3089 Nov 02 j 13:29 | 23° $\underline{\Omega}$ 08'20 |            |
| minimum elong       | -3091 May 15 j 05:30 | 27° $\Upsilon$ 45'25          | 0°35'16    |                     | -3089 Nov 08 j 00:32 | 0° $\mathbb{M}$                |            |
| min. Earth dist.    | -3091 May 15 j 17:15 | 27° $\Upsilon$ 27'09          | 0.28892 AU | evening rise        | -3089 Nov 17 j 14:33 | 12° $\mathbb{M}$ 01'16         |            |
| desc. node          | -3091 May 17 j 17:41 | 26° $\Upsilon$ 12'19          |            |                     | -3089 Dec 01 j 23:22 | 0° $\nearrow$                  |            |
| morning rise        | -3091 May 21 j 14:38 | 23° $\Upsilon$ 56'58          |            |                     | -3089 Dec 26 j 01:40 | 0° $\beth$                     |            |
| direct              | -3091 Jun 05 j 23:09 | 19° $\Upsilon$ 28'32          |            |                     | -3088 Jan 19 j 09:00 | 0° $\approx$                   |            |
| greatest brilliancy | -3091 Jun 16 j 20:34 | 21° $\Upsilon$ 36'15          | -4.7m      |                     | -3088 Feb 13 j 00:17 | 0° $\text{H}$                  |            |
|                     | -3091 Jul 01 j 22:25 | 0° $\text{B}$                 |            | asc. node           | -3088 Feb 23 j 11:20 | 12° $\text{H}$ 33'48           |            |
| morning max el      | -3091 Jul 25 j 09:14 | 20° $\text{B}$ 10'38          | 46°13'12   |                     | -3088 Mar 09 j 04:12 | 0° $\Upsilon$                  |            |
|                     | -3091 Aug 04 j 02:48 | 0° $\Pi$                      |            |                     | -3088 Apr 04 j 04:28 | 0° $\text{B}$                  |            |
|                     | -3091 Aug 31 j 07:46 | 0° $\ominus$                  |            |                     | -3088 May 01 j 18:48 | 0° $\Pi$                       |            |
| asc. node           | -3091 Sep 07 j 17:07 | 8° $\ominus$ 35'37            |            | evening max el      | -3088 May 16 j 10:35 | 14° $\Pi$ 37'30                | 45°25'30   |
|                     | -3091 Sep 25 j 15:50 | 0° $\Omega$                   |            |                     | -3088 Jun 02 j 23:55 | 0° $\ominus$                   |            |
|                     | -3091 Oct 20 j 03:30 | 0° $\P$                       |            | desc. node          | -3088 Jun 14 j 05:28 | 7° $\ominus$ 46'54             |            |
|                     | -3091 Nov 13 j 06:43 | 0° $\underline{\Omega}$       |            | greatest brilliancy | -3088 Jun 24 j 11:06 | 12° $\ominus$ 37'56            | -4.8m      |
|                     | -3091 Dec 07 j 08:13 | 0° $\mathbb{M}$               |            | retrograde          | -3088 Jul 04 j 06:04 | 14° $\ominus$ 21'44            |            |
| desc. node          | -3091 Dec 28 j 11:30 | 26° $\mathbb{M}$ 17'41        |            | evening set         | -3088 Jul 21 j 01:06 | 9° $\ominus$ 06'54             |            |
|                     | -3091 Dec 31 j 11:08 | 0° $\nearrow$                 |            | inferior conj       | -3088 Jul 25 j 08:42 | 6° $\ominus$ 33'15             | -7°56'46   |
|                     | -3090 Jan 24 j 16:18 | 0° $\beth$                    |            | minimum elong       | -3088 Jul 25 j 00:19 | 6° $\ominus$ 46'00             | 7°55'33    |
| morning set         | -3090 Jan 29 j 15:20 | 6° $\beth$ 07'47              |            | min. Earth dist.    | -3088 Jul 25 j 17:26 | 6° $\ominus$ 20'00             | 0.27796 AU |
|                     | -3090 Feb 17 j 23:32 | 0° $\approx$                  |            | morning rise        | -3088 Jul 28 j 23:11 | 4° $\ominus$ 23'19             |            |
|                     |                      |                               |            |                     | -3088 Aug 07 j 03:00 | 30° $\text{R}\Pi$              |            |
| superior conj       | -3090 Mar 09 j 04:22 | 23° $\approx$ 38'33           | -1°17'39   | direct              | -3088 Aug 15 j 11:57 | 28° $\Pi$ 35'15                |            |
| minimum elong       | -3090 Mar 09 j 10:59 | 23° $\approx$ 58'54           | 1°17'35    |                     | -3088 Aug 24 j 04:27 | 0° $\ominus$                   |            |
| max. Earth dist.    | -3090 Mar 10 j 17:21 | 25° $\approx$ 32'18           | 1.73418 AU | greatest brilliancy | -3088 Aug 26 j 13:11 | 0° $\ominus$ 49'49             | -4.9m      |
|                     | -3090 Mar 14 j 08:25 | 0° $\text{H}$                 |            |                     | -3088 Oct 03 j 13:52 | 0° $\Omega$                    |            |
|                     | -3090 Apr 07 j 18:43 | 0° $\Upsilon$                 |            | morning max el      | -3088 Oct 05 j 02:00 | 1° $\Omega$ 31'29              | 46°48'58   |
| evening rise        | -3090 Apr 15 j 02:05 | 8° $\Upsilon$ 57'40           |            | asc. node           | -3088 Oct 05 j 04:38 | 1° $\Omega$ 38'11              |            |
| asc. node           | -3090 Apr 20 j 09:36 | 15° $\Upsilon$ 28'28          |            |                     | -3088 Oct 31 j 04:43 | 0° $\P$                        |            |
|                     | -3090 May 02 j 06:14 | 0° $\text{B}$                 |            |                     | -3088 Nov 25 j 17:57 | 0° $\underline{\Omega}$        |            |
|                     | -3090 May 26 j 18:56 | 0° $\Pi$                      |            |                     | -3088 Dec 20 j 14:52 | 0° $\mathbb{M}$                |            |
|                     | -3090 Jun 20 j 09:26 | 0° $\ominus$                  |            |                     | -3087 Jan 14 j 06:56 | 0° $\nearrow$                  |            |
|                     | -3090 Jul 15 j 03:24 | 0° $\Omega$                   |            | desc. node          | -3087 Jan 24 j 23:23 | 13° $\nearrow$ 00'56           |            |
|                     | -3090 Aug 09 j 03:56 | 0° $\P$                       |            |                     | -3087 Feb 07 j 21:58 | 0° $\beth$                     |            |
| desc. node          | -3090 Aug 10 j 03:01 | 1° $\P$ 08'37                 |            |                     | -3087 Mar 04 j 12:39 | 0° $\approx$                   |            |
|                     | -3090 Sep 03 j 16:52 | 0° $\underline{\Omega}$       |            |                     | -3087 Mar 29 j 02:36 | 0° $\text{H}$                  |            |
|                     | -3090 Sep 30 j 08:36 | 0° $\mathbb{M}$               |            | morning set         | -3087 Apr 09 j 16:52 | 14° $\text{H}$ 10'18           |            |
| evening max el      | -3090 Oct 13 j 04:14 | 13° $\mathbb{M}$ 30'54        | 47°32'38   |                     | -3087 Apr 22 j 15:11 | 0° $\Upsilon$                  |            |
|                     | -3090 Oct 30 j 12:46 | 0° $\nearrow$                 |            | max. Earth dist.    | -3087 May 13 j 01:52 | 25° $\Upsilon$ 05'18           | 1.73575 AU |
| greatest brilliancy | -3090 Nov 22 j 17:49 | 15° $\nearrow$ 21'33          | -4.9m      |                     |                      |                                |            |
| asc. node           | -3090 Dec 01 j 01:48 | 17° $\nearrow$ 23'16          |            | superior conj       | -3087 May 15 j 17:16 | 28° $\Upsilon$ 20'13           | -0°05'11   |
| retrograde          | -3090 Dec 03 j 06:31 | 17° $\nearrow$ 29'10          |            | minimum elong       | -3087 May 15 j 18:16 | 28° $\Upsilon$ 23'18           | 0°05'05    |
| evening set         | -3090 Dec 18 j 11:33 | 12° $\nearrow$ 48'41          |            | behind sun begin    | -3087 May 14 j 21:10 | 27° $\Upsilon$ 18'23           |            |
| min. Earth dist.    | -3090 Dec 23 j 00:12 | 10° $\nearrow$ 03'49          | 0.27338 AU | behind sun end      | -3087 May 16 j 15:23 | 29° $\Upsilon$ 28'13           |            |
| inferior conj       | -3090 Dec 24 j 02:34 | 9° $\nearrow$ 22'13           | 5°20'45    |                     | -3087 May 17 j 01:43 | 0° $\text{B}$                  |            |
| minimum elong       | -3090 Dec 23 j 17:19 | 9° $\nearrow$ 36'49           | 5°18'26    | asc. node           | -3087 May 17 j 21:50 | 1° $\text{B}$ 01'54            |            |
| morning rise        | -3090 Dec 28 j 23:52 | 6° $\nearrow$ 23'05           |            |                     | -3087 Jun 10 j 09:46 | 0° $\Pi$                       |            |
| direct              | -3089 Jan 13 j 16:57 | 1° $\nearrow$ 31'16           |            | evening rise        | -3087 Jun 20 j 08:17 | 12° $\Pi$ 17'22                |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|--|
|                     | -3087 Jul 04 j 15:32 | 0°☾       |            |                     |  | -3084 Feb 21 j 21:17 | 0°☿       |            |  |
|                     | -3087 Jul 28 j 20:10 | 0°♈       |            | desc. node          |  | -3084 Feb 22 j 11:06 | 0°☿40'29  |            |  |
|                     | -3087 Aug 22 j 01:27 | 0°♉       |            |                     |  | -3084 Mar 18 j 07:12 | 0°♊       |            |  |
| desc. node          | -3087 Sep 06 j 15:08 | 19°♊13'06 |            |                     |  | -3084 Apr 12 j 09:59 | 0°♋       |            |  |
|                     | -3087 Sep 15 j 09:25 | 0°♌       |            |                     |  | -3084 May 07 j 06:45 | 0°♎       |            |  |
|                     | -3087 Oct 09 j 22:28 | 0°♍       |            |                     |  | -3084 May 31 j 21:34 | 0°♏       |            |  |
|                     | -3087 Nov 03 j 21:10 | 0°♐       |            | asc. node           |  | -3084 Jun 14 j 09:48 | 16°♏35'57 |            |  |
|                     | -3087 Nov 29 j 17:16 | 0°♑       |            | morning set         |  | -3084 Jun 15 j 13:38 | 18°♏01'39 |            |  |
| evening max el      | -3087 Dec 23 j 02:33 | 25°☿09'34 | 46°31'32   |                     |  | -3084 Jun 25 j 06:18 | 0°♐       |            |  |
|                     | -3087 Dec 27 j 23:48 | 0°♑       |            | max. Earth dist.    |  | -3084 Jul 17 j 18:23 | 27°♐57'54 | 1.72160 AU |  |
| asc. node           | -3087 Dec 28 j 13:34 | 0°♑33'21  |            |                     |  | -3084 Jul 19 j 09:32 | 0°☾       |            |  |
| greatest brilliancy | -3086 Jan 31 j 10:35 | 25°♑29'06 | -4.8m      |                     |  |                      |           |            |  |
| retrograde          | -3086 Feb 11 j 06:48 | 27°♑40'59 |            | superior conj       |  | -3084 Jul 22 j 02:51 | 3°☾23'50  | 1°13'25    |  |
| evening set         | -3086 Feb 28 j 22:46 | 21°♑37'42 |            | minimum elong       |  | -3084 Jul 21 j 19:06 | 2°☾59'38  | 1°13'19    |  |
| inferior conj       | -3086 Mar 04 j 15:42 | 19°♑17'53 | 7°55'31    |                     |  | -3084 Aug 12 j 08:54 | 0°♈       |            |  |
| minimum elong       | -3086 Mar 04 j 21:01 | 19°♑09'25 | 7°54'59    | evening rise        |  | -3084 Aug 28 j 18:41 | 20°♈35'08 |            |  |
| min. Earth dist.    | -3086 Mar 04 j 14:52 | 19°♑19'14 | 0.29147 AU |                     |  | -3084 Sep 05 j 06:40 | 0°♉       |            |  |
| morning rise        | -3086 Mar 08 j 19:25 | 16°♑41'53 |            |                     |  | -3084 Sep 29 j 05:01 | 0°♌       |            |  |
| direct              | -3086 Mar 26 j 03:48 | 10°♑55'26 |            | desc. node          |  | -3084 Oct 04 j 03:25 | 6°♌10'26  |            |  |
| greatest brilliancy | -3086 Apr 04 j 20:34 | 12°♑37'57 | -4.7m      |                     |  | -3084 Oct 23 j 05:29 | 0°♍       |            |  |
| desc. node          | -3086 Apr 19 j 08:11 | 20°♑09'23 |            |                     |  | -3084 Nov 16 j 09:29 | 0°♐       |            |  |
|                     | -3086 May 02 j 03:43 | 0°♋       |            |                     |  | -3084 Dec 10 j 19:40 | 0°☿       |            |  |
| morning max el      | -3086 May 14 j 00:02 | 10°♋42'22 | 45°48'06   |                     |  | -3083 Jan 04 j 17:41 | 0°♊       |            |  |
|                     | -3086 Jun 02 j 02:46 | 0°♎       |            | asc. node           |  | -3083 Jan 25 j 01:19 | 23°♊40'35 |            |  |
|                     | -3086 Jun 29 j 07:40 | 0°♏       |            |                     |  | -3083 Jan 30 j 15:15 | 0°♋       |            |  |
|                     | -3086 Jul 25 j 00:02 | 0°♐       |            |                     |  | -3083 Feb 27 j 17:55 | 0°♎       |            |  |
| asc. node           | -3086 Aug 10 j 07:28 | 19°♐38'58 |            | evening max el      |  | -3083 Mar 04 j 02:39 | 4°♎16'16  | 45°18'37   |  |
|                     | -3086 Aug 18 j 18:48 | 0°☾       |            |                     |  | -3083 Apr 06 j 15:43 | 0°♏       |            |  |
|                     | -3086 Sep 11 j 23:51 | 0°♈       |            | greatest brilliancy |  | -3083 Apr 10 j 16:50 | 1°♏42'28  | -4.7m      |  |
|                     | -3086 Oct 05 j 21:28 | 0°♉       |            | retrograde          |  | -3083 Apr 21 j 09:48 | 3°♏45'06  |            |  |
|                     | -3086 Oct 29 j 16:41 | 0°♌       |            |                     |  | -3083 May 05 j 09:25 | 30°♎♎     |            |  |
| morning set         | -3086 Nov 11 j 09:34 | 15°♌59'47 |            | evening set         |  | -3083 May 06 j 13:16 | 29°♎23'13 |            |  |
|                     | -3086 Nov 22 j 12:54 | 0°♍       |            | inferior conj       |  | -3083 May 12 j 20:28 | 25°♎38'02 | 0°55'06    |  |
| desc. node          | -3086 Nov 30 j 01:35 | 9°♍26'59  |            | minimum elong       |  | -3083 May 12 j 22:28 | 25°♎34'55 | 0°54'34    |  |
|                     | -3086 Dec 16 j 11:36 | 0°♐       |            | min. Earth dist.    |  | -3083 May 13 j 10:05 | 25°♎16'47 | 0.28922 AU |  |
|                     |                      |           |            | desc. node          |  | -3083 May 16 j 19:49 | 23°♎11'30 |            |  |
| superior conj       | -3086 Dec 23 j 14:19 | 8°♐53'04  | -0°51'14   | morning rise        |  | -3083 May 19 j 07:09 | 21°♎46'34 |            |  |
| minimum elong       | -3086 Dec 23 j 03:17 | 8°♐18'37  | 0°50'54    | direct              |  | -3083 Jun 03 j 15:11 | 17°♎18'32 |            |  |
| max. Earth dist.    | -3086 Dec 28 j 01:13 | 14°♐26'26 | 1.71873 AU | greatest brilliancy |  | -3083 Jun 14 j 12:45 | 19°♎25'44 | -4.7m      |  |
|                     | -3085 Jan 09 j 13:10 | 0°☿       |            |                     |  | -3083 Jul 02 j 14:06 | 0°♏       |            |  |
| evening rise        | -3085 Feb 01 j 22:49 | 29°☿01'03 |            | morning max el      |  | -3083 Jul 22 j 23:47 | 17°♏54'13 | 46°11'52   |  |
|                     | -3085 Feb 02 j 17:54 | 0°♊       |            |                     |  | -3083 Aug 03 j 21:54 | 0°♐       |            |  |
| greatest brilliancy | -3085 Feb 06 j 11:58 | 4°♊38'08  | -3.9m      |                     |  | -3083 Aug 30 j 22:45 | 0°☾       |            |  |
|                     | -3085 Feb 27 j 02:29 | 0°♋       |            | asc. node           |  | -3083 Sep 06 j 19:13 | 7°☾59'31  |            |  |
| asc. node           | -3085 Mar 22 j 23:32 | 29°♋09'50 |            |                     |  | -3083 Sep 25 j 05:10 | 0°♈       |            |  |
|                     | -3085 Mar 23 j 16:02 | 0°♎       |            |                     |  | -3083 Oct 19 j 16:00 | 0°♉       |            |  |
|                     | -3085 Apr 17 j 11:57 | 0°♏       |            |                     |  | -3083 Nov 12 j 18:44 | 0°♌       |            |  |
|                     | -3085 May 12 j 16:12 | 0°♐       |            |                     |  | -3083 Dec 06 j 19:52 | 0°♍       |            |  |
|                     | -3085 Jun 07 j 08:55 | 0°☾       |            | desc. node          |  | -3083 Dec 27 j 13:31 | 25°♍48'27 |            |  |
|                     | -3085 Jul 04 j 00:25 | 0°♈       |            |                     |  | -3083 Dec 30 j 22:33 | 0°♐       |            |  |
| desc. node          | -3085 Jul 12 j 17:11 | 9°♈23'43  |            |                     |  | -3082 Jan 24 j 03:33 | 0°☿       |            |  |
| evening max el      | -3085 Jul 29 j 21:10 | 27°♈00'51 | 46°46'13   | morning set         |  | -3082 Jan 27 j 04:29 | 3°☿45'30  |            |  |
|                     | -3085 Aug 01 j 23:11 | 0°♉       |            |                     |  | -3082 Feb 17 j 10:38 | 0°♊       |            |  |
| greatest brilliancy | -3085 Sep 08 j 19:39 | 27°♉10'38 | -4.9m      |                     |  |                      |           |            |  |
| retrograde          | -3085 Sep 17 j 23:02 | 28°♉44'17 |            | superior conj       |  | -3082 Mar 06 j 20:54 | 21°♊27'50 | -1°18'50   |  |
| evening set         | -3085 Oct 03 j 21:25 | 23°♉48'01 |            | minimum elong       |  | -3082 Mar 07 j 03:00 | 21°♊46'38 | 1°18'48    |  |
| inferior conj       | -3085 Oct 08 j 11:53 | 21°♉04'15 | -5°57'46   | max. Earth dist.    |  | -3082 Mar 08 j 12:19 | 23°♊29'06 | 1.73383 AU |  |
| minimum elong       | -3085 Oct 08 j 22:33 | 20°♉48'04 | 5°55'09    |                     |  | -3082 Mar 13 j 19:27 | 0°♋       |            |  |
| min. Earth dist.    | -3085 Oct 08 j 18:45 | 20°♉53'49 | 0.26458 AU |                     |  | -3082 Apr 07 j 05:45 | 0°♎       |            |  |
| morning rise        | -3085 Oct 13 j 23:36 | 17°♉51'36 |            | evening rise        |  | -3082 Apr 12 j 20:21 | 6°♎52'37  |            |  |
| direct              | -3085 Oct 28 j 20:31 | 13°♉28'41 |            | asc. node           |  | -3082 Apr 19 j 11:47 | 15°♎01'10 |            |  |
| asc. node           | -3085 Nov 02 j 16:14 | 13°♉56'36 |            |                     |  | -3082 May 01 j 17:23 | 0°♏       |            |  |
| greatest brilliancy | -3085 Nov 08 j 06:25 | 15°♉33'33 | -4.9m      |                     |  | -3082 May 26 j 06:23 | 0°♐       |            |  |
|                     | -3085 Nov 30 j 13:08 | 0°♌       |            |                     |  | -3082 Jun 19 j 21:22 | 0°☾       |            |  |
| morning max el      | -3085 Dec 18 j 10:18 | 16°♌47'22 | 46°43'45   |                     |  | -3082 Jul 14 j 16:04 | 0°♈       |            |  |
|                     | -3085 Dec 31 j 01:44 | 0°♍       |            |                     |  | -3082 Aug 08 j 17:42 | 0°♉       |            |  |
|                     | -3084 Jan 27 j 00:05 | 0°♐       |            | desc. node          |  | -3082 Aug 09 j 05:02 | 0°♊33'39  |            |  |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |  |                     |                      |           |            |  |
|---------------------|----------------------|-----------|------------|--|---------------------|----------------------|-----------|------------|--|
|                     | -3082 Sep 03 j 08:27 | 0°♊       |            |  |                     | -3079 Feb 07 j 09:44 | 0°♊       |            |  |
|                     | -3082 Sep 30 j 04:05 | 0°♋       |            |  |                     | -3079 Mar 04 j 00:00 | 0°♋       |            |  |
| evening max el      | -3082 Oct 10 j 18:05 | 11°♋05'36 | 47°33'09   |  |                     | -3079 Mar 28 j 13:41 | 0°♌       |            |  |
|                     | -3082 Oct 30 j 23:26 | 0°♍       |            |  | morning set         | -3079 Apr 07 j 11:22 | 12°♌06'24 |            |  |
| greatest brilliancy | -3082 Nov 20 j 10:04 | 12°♍59'24 | -4.9m      |  |                     | -3079 Apr 22 j 02:07 | 0°♎       |            |  |
| asc. node           | -3082 Nov 30 j 03:51 | 15°♍04'56 |            |  | max. Earth dist.    | -3079 May 11 j 01:59 | 23°♎18'21 | 1.73603 AU |  |
| retrograde          | -3082 Nov 30 j 20:48 | 15°♍05'33 |            |  |                     |                      |           |            |  |
| evening set         | -3082 Dec 15 j 23:38 | 10°♍29'01 |            |  | superior conj       | -3079 May 13 j 12:19 | 26°♎17'35 | -0°08'12   |  |
| min. Earth dist.    | -3082 Dec 20 j 15:07 | 7°♍40'30  | 0.27263 AU |  | minimum elong       | -3079 May 13 j 13:55 | 26°♎22'31 | 0°08'05    |  |
| inferior conj       | -3082 Dec 21 j 16:52 | 6°♍59'56  | 5°03'32    |  | behind sun begin    | -3079 May 12 j 18:42 | 25°♎23'27 |            |  |
| minimum elong       | -3082 Dec 21 j 07:49 | 7°♍14'12  | 5°01'11    |  | behind sun end      | -3079 May 14 j 09:08 | 27°♎21'36 |            |  |
| morning rise        | -3082 Dec 26 j 16:45 | 3°♍57'13  |            |  | asc. node           | -3079 May 16 j 23:52 | 0°♏34'32  |            |  |
|                     | -3081 Jan 04 j 20:38 | 30°♋♋     |            |  |                     | -3079 May 16 j 12:38 | 0°♏       |            |  |
| direct              | -3081 Jan 11 j 05:47 | 29°♋10'02 |            |  |                     | -3079 Jun 09 j 20:47 | 0°♐       |            |  |
|                     | -3081 Jan 17 j 20:13 | 0°♌       |            |  | evening rise        | -3079 Jun 18 j 03:20 | 10°♐13'35 |            |  |
| greatest brilliancy | -3081 Jan 20 j 03:09 | 0°♌39'00  | -4.8m      |  |                     | -3079 Jul 04 j 02:45 | 0°♑       |            |  |
| morning max el      | -3081 Mar 01 j 09:25 | 29°♌51'55 | 46°05'42   |  |                     | -3079 Jul 28 j 07:40 | 0°♒       |            |  |
|                     | -3081 Mar 01 j 12:46 | 0°♓       |            |  |                     | -3079 Aug 21 j 13:20 | 0°♓       |            |  |
| desc. node          | -3081 Mar 21 j 22:49 | 20°♓49'38 |            |  | desc. node          | -3079 Sep 05 j 17:19 | 18°♓42'14 |            |  |
|                     | -3081 Mar 30 j 11:12 | 0°♈       |            |  |                     | -3079 Sep 14 j 21:49 | 0°♈       |            |  |
|                     | -3081 Apr 26 j 06:08 | 0°♉       |            |  |                     | -3079 Oct 09 j 11:36 | 0°♉       |            |  |
|                     | -3081 May 22 j 01:25 | 0°♊       |            |  |                     | -3079 Nov 03 j 11:28 | 0°♊       |            |  |
|                     | -3081 Jun 16 j 05:17 | 0°♋       |            |  |                     | -3079 Nov 29 j 09:57 | 0°♋       |            |  |
|                     | -3081 Jul 10 j 21:01 | 0°♌       |            |  | evening max el      | -3079 Dec 20 j 19:14 | 22°♋55'52 | 46°34'41   |  |
| asc. node           | -3081 Jul 12 j 21:43 | 2°♌29'33  |            |  | asc. node           | -3079 Dec 27 j 15:38 | 29°♋40'14 |            |  |
|                     | -3081 Aug 04 j 02:56 | 0°♍       |            |  |                     | -3079 Dec 27 j 23:55 | 0°♌       |            |  |
| morning set         | -3081 Aug 25 j 10:00 | 26°♍39'23 |            |  | greatest brilliancy | -3078 Jan 29 j 03:07 | 23°♌18'13 | -4.8m      |  |
|                     | -3081 Aug 28 j 01:50 | 0°♎       |            |  | retrograde          | -3078 Feb 09 j 00:23 | 25°♌30'52 |            |  |
|                     | -3081 Sep 20 j 21:04 | 0°♏       |            |  | evening set         | -3078 Feb 26 j 17:03 | 19°♌25'19 |            |  |
|                     |                      |           |            |  | inferior conj       | -3078 Mar 02 j 08:30 | 17°♌07'36 | 8°01'17    |  |
| superior conj       | -3081 Oct 03 j 18:59 | 16°♏17'54 | 1°00'50    |  | minimum elong       | -3078 Mar 02 j 13:14 | 17°♌00'03 | 8°00'52    |  |
| minimum elong       | -3081 Oct 04 j 06:11 | 16°♏53'14 | 1°00'28    |  | min. Earth dist.    | -3078 Mar 02 j 06:01 | 17°♌11'34 | 0.29114 AU |  |
| max. Earth dist.    | -3081 Oct 04 j 16:05 | 17°♏24'29 | 1.70907 AU |  | morning rise        | -3078 Mar 06 j 09:38 | 14°♌35'34 |            |  |
|                     | -3081 Oct 14 j 15:43 | 0°♐       |            |  | direct              | -3078 Mar 23 j 20:31 | 8°♌45'55  |            |  |
| desc. node          | -3081 Nov 01 j 15:37 | 22°♐39'14 |            |  | greatest brilliancy | -3078 Apr 02 j 10:33 | 10°♌26'35 | -4.7m      |  |
|                     | -3081 Nov 07 j 11:56 | 0°♑       |            |  | desc. node          | -3078 Apr 18 j 10:15 | 18°♌58'16 |            |  |
| evening rise        | -3081 Nov 14 j 23:24 | 9°♑22'52  |            |  |                     | -3078 May 02 j 07:52 | 0°♌       |            |  |
|                     | -3081 Dec 01 j 10:48 | 0°♍       |            |  | morning max el      | -3078 May 11 j 16:55 | 8°♌35'00  | 45°47'53   |  |
|                     | -3081 Dec 25 j 13:10 | 0°♓       |            |  |                     | -3078 Jun 01 j 19:51 | 0°♎       |            |  |
|                     | -3080 Jan 18 j 20:39 | 0°♈       |            |  |                     | -3078 Jun 28 j 21:41 | 0°♏       |            |  |
|                     | -3080 Feb 12 j 12:19 | 0°♉       |            |  |                     | -3078 Jul 24 j 12:43 | 0°♐       |            |  |
| asc. node           | -3080 Feb 22 j 13:27 | 12°♉03'19 |            |  | asc. node           | -3078 Aug 09 j 09:37 | 19°♐08'25 |            |  |
|                     | -3080 Mar 08 j 17:05 | 0°♊       |            |  |                     | -3078 Aug 18 j 06:49 | 0°♑       |            |  |
|                     | -3080 Apr 03 j 19:09 | 0°♋       |            |  |                     | -3078 Sep 11 j 11:31 | 0°♒       |            |  |
|                     | -3080 May 01 j 13:48 | 0°♌       |            |  |                     | -3078 Oct 05 j 08:57 | 0°♓       |            |  |
| evening max el      | -3080 May 14 j 01:20 | 12°♌22'31 | 45°23'44   |  |                     | -3078 Oct 29 j 04:05 | 0°♈       |            |  |
|                     | -3080 Jun 03 j 14:20 | 0°♍       |            |  | morning set         | -3078 Nov 08 j 19:21 | 13°♈23'54 |            |  |
| desc. node          | -3080 Jun 13 j 07:32 | 6°♍21'10  |            |  |                     | -3078 Nov 22 j 00:12 | 0°♉       |            |  |
| greatest brilliancy | -3080 Jun 21 j 22:27 | 10°♍17'08 | -4.8m      |  | desc. node          | -3078 Nov 29 j 03:34 | 8°♉57'47  |            |  |
| retrograde          | -3080 Jul 01 j 20:03 | 12°♍02'59 |            |  |                     | -3078 Dec 15 j 22:50 | 0°♊       |            |  |
| evening set         | -3080 Jul 18 j 10:59 | 6°♍52'56  |            |  |                     |                      |           |            |  |
| inferior conj       | -3080 Jul 22 j 22:33 | 4°♍13'40  | -7°46'12   |  | superior conj       | -3078 Dec 21 j 00:19 | 6°♊19'27  | -0°48'05   |  |
| minimum elong       | -3080 Jul 22 j 13:41 | 4°♍27'07  | 7°44'50    |  | minimum elong       | -3078 Dec 20 j 13:35 | 5°♊45'55  | 0°47'45    |  |
| min. Earth dist.    | -3080 Jul 23 j 06:46 | 4°♍01'11  | 0.27844 AU |  | max. Earth dist.    | -3078 Dec 25 j 14:18 | 12°♊02'38 | 1.71817 AU |  |
| morning rise        | -3080 Jul 26 j 16:05 | 1°♍59'27  |            |  |                     | -3077 Jan 09 j 00:21 | 0°♋       |            |  |
|                     | -3080 Jul 30 j 06:49 | 30°♋♋     |            |  | evening rise        | -3077 Jan 30 j 12:19 | 26°♋39'55 |            |  |
| direct              | -3080 Aug 13 j 02:54 | 26°♋14'47 |            |  |                     | -3077 Feb 02 j 05:02 | 0°♌       |            |  |
| greatest brilliancy | -3080 Aug 24 j 03:47 | 28°♋29'25 | -4.9m      |  | greatest brilliancy | -3077 Feb 06 j 04:33 | 4°♌54'56  | -3.9m      |  |
|                     | -3080 Aug 27 j 14:41 | 0°♍       |            |  |                     | -3077 Feb 26 j 13:40 | 0°♌       |            |  |
| morning max el      | -3080 Oct 02 j 17:04 | 29°♍10'01 | 46°48'11   |  | asc. node           | -3077 Mar 22 j 01:44 | 28°♌41'59 |            |  |
|                     | -3080 Oct 03 j 12:40 | 0°♎       |            |  |                     | -3077 Mar 23 j 03:25 | 0°♎       |            |  |
| asc. node           | -3080 Oct 04 j 06:53 | 0°♎46'43  |            |  |                     | -3077 Apr 16 j 23:45 | 0°♏       |            |  |
|                     | -3080 Oct 30 j 21:17 | 0°♏       |            |  |                     | -3077 May 12 j 04:49 | 0°♐       |            |  |
|                     | -3080 Nov 25 j 08:13 | 0°♐       |            |  |                     | -3077 Jun 06 j 23:05 | 0°♑       |            |  |
|                     | -3080 Dec 20 j 03:57 | 0°♑       |            |  |                     | -3077 Jul 03 j 17:41 | 0°♒       |            |  |
|                     | -3079 Jan 13 j 19:14 | 0°♌       |            |  | desc. node          | -3077 Jul 11 j 19:11 | 8°♒38'53  |            |  |
| desc. node          | -3079 Jan 24 j 01:24 | 12°♌30'23 |            |  | evening max el      | -3077 Jul 27 j 10:42 | 24°♒37'45 | 46°42'57   |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 66

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |                      |            |  |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|----------------------|------------|--|
|                     | -3077 Aug 02 j 01:19 | 0°♈       |            |                     |                      | -3074 Feb 16 j 21:34 | 0°♏        |  |
| greatest brilliancy | -3077 Sep 06 j 08:14 | 24°♈41'20 | -4.9m      |                     |                      |                      |            |  |
| retrograde          | -3077 Sep 15 j 10:29 | 26°♈13'37 |            | superior conj       | -3074 Mar 04 j 13:09 | 19°♏16'52            | -1°19'55   |  |
| evening set         | -3077 Oct 01 j 12:42 | 21°♈13'18 |            | minimum elong       | -3074 Mar 04 j 18:43 | 19°♏34'02            | 1°19'55    |  |
| inferior conj       | -3077 Oct 05 j 23:48 | 18°♈34'09 | -6°15'44   | max. Earth dist.    | -3074 Mar 06 j 06:06 | 21°♏22'51            | 1.73344 AU |  |
| minimum elong       | -3077 Oct 06 j 10:35 | 18°♈17'45 | 6°13'12    |                     | -3074 Mar 13 j 06:16 | 0°♈                  |            |  |
| min. Earth dist.    | -3077 Oct 06 j 07:42 | 18°♈22'08 | 0.26485 AU |                     | -3074 Apr 06 j 16:34 | 0°♈                  |            |  |
| morning rise        | -3077 Oct 11 j 08:22 | 15°♈25'29 |            | evening rise        | -3074 Apr 10 j 14:36 | 4°♈48'15             |            |  |
| direct              | -3077 Oct 26 j 08:54 | 10°♈58'24 |            | asc. node           | -3074 Apr 18 j 13:48 | 14°♈34'04            |            |  |
| asc. node           | -3077 Nov 01 j 18:15 | 11°♈46'42 |            |                     | -3074 May 01 j 04:19 | 0°♈                  |            |  |
| greatest brilliancy | -3077 Nov 05 j 19:44 | 13°♈03'45 | -4.9m      |                     | -3074 May 25 j 17:35 | 0°♈                  |            |  |
|                     | -3077 Nov 30 j 22:51 | 0°♈       |            |                     | -3074 Jun 19 j 09:02 | 0°♈                  |            |  |
| morning max el      | -3077 Dec 15 j 22:45 | 14°♈18'35 | 46°44'42   |                     | -3074 Jul 14 j 04:26 | 0°♈                  |            |  |
|                     | -3077 Dec 30 j 20:53 | 0°♈       |            | desc. node          | -3074 Aug 08 j 07:16 | 0°♈00'19             |            |  |
|                     | -3076 Jan 26 j 15:16 | 0°♈       |            |                     | -3074 Aug 08 j 07:09 | 0°♈                  |            |  |
|                     | -3076 Feb 21 j 10:37 | 0°♈       |            |                     | -3074 Sep 02 j 23:52 | 0°♈                  |            |  |
| desc. node          | -3076 Feb 21 j 13:18 | 0°♈07'54  |            |                     | -3074 Sep 29 j 23:49 | 0°♈                  |            |  |
|                     | -3076 Mar 17 j 19:28 | 0°♈       |            | evening max el      | -3074 Oct 08 j 07:50 | 8°♈40'45             | 47°33'15   |  |
|                     | -3076 Apr 11 j 21:35 | 0°♈       |            |                     | -3074 Oct 31 j 13:33 | 0°♈                  |            |  |
|                     | -3076 May 06 j 17:57 | 0°♈       |            | greatest brilliancy | -3074 Nov 18 j 01:30 | 10°♈35'43            | -4.9m      |  |
|                     | -3076 May 31 j 08:30 | 0°♈       |            | retrograde          | -3074 Nov 28 j 10:58 | 12°♈41'06            |            |  |
| morning set         | -3076 Jun 13 j 08:02 | 15°♈57'01 |            | asc. node           | -3074 Nov 29 j 05:57 | 12°♈40'19            |            |  |
| asc. node           | -3076 Jun 13 j 11:53 | 16°♈08'53 |            | evening set         | -3074 Dec 13 j 11:23 | 8°♈07'55             |            |  |
|                     | -3076 Jun 24 j 17:08 | 0°♈       |            | min. Earth dist.    | -3074 Dec 18 j 05:35 | 5°♈16'08             | 0.27193 AU |  |
| max. Earth dist.    | -3076 Jul 15 j 09:53 | 25°♈42'43 | 1.72227 AU | inferior conj       | -3074 Dec 19 j 06:45 | 4°♈36'36             | 4°45'25    |  |
|                     | -3076 Jul 18 j 20:24 | 0°♈       |            | minimum elong       | -3074 Dec 18 j 21:58 | 4°♈50'24             | 4°43'03    |  |
|                     |                      |           |            | morning rise        | -3074 Dec 24 j 09:15 | 1°♈30'30             |            |  |
| superior conj       | -3076 Jul 19 j 19:59 | 1°♈13'34  | 1°11'45    |                     | -3074 Dec 27 j 05:10 | 30°♈                 |            |  |
| minimum elong       | -3076 Jul 19 j 11:56 | 0°♈48'26  | 1°11'40    | direct              | -3073 Jan 08 j 18:25 | 26°♈47'33            |            |  |
|                     | -3076 Aug 11 j 19:55 | 0°♈       |            | greatest brilliancy | -3073 Jan 17 j 17:36 | 28°♈18'05            | -4.8m      |  |
| evening rise        | -3076 Aug 26 j 08:12 | 18°♈12'04 |            |                     | -3073 Jan 22 j 02:20 | 0°♈                  |            |  |
|                     | -3076 Sep 04 j 17:54 | 0°♈       |            | morning max el      | -3073 Feb 26 j 23:46 | 27°♈34'48            | 46°07'04   |  |
|                     | -3076 Sep 28 j 16:27 | 0°♈       |            |                     | -3073 Mar 01 j 11:23 | 0°♈                  |            |  |
| desc. node          | -3076 Oct 03 j 05:31 | 5°♈41'06  |            | desc. node          | -3073 Mar 21 j 00:57 | 20°♈09'23            |            |  |
|                     | -3076 Oct 22 j 17:08 | 0°♈       |            |                     | -3073 Mar 30 j 03:05 | 0°♈                  |            |  |
|                     | -3076 Nov 15 j 21:26 | 0°♈       |            |                     | -3073 Apr 25 j 19:32 | 0°♈                  |            |  |
|                     | -3076 Dec 10 j 08:05 | 0°♈       |            |                     | -3073 May 21 j 13:34 | 0°♈                  |            |  |
|                     | -3075 Jan 04 j 06:58 | 0°♈       |            |                     | -3073 Jun 15 j 16:46 | 0°♈                  |            |  |
| asc. node           | -3075 Jan 24 j 03:29 | 23°♈05'01 |            |                     | -3073 Jul 10 j 08:08 | 0°♈                  |            |  |
|                     | -3075 Jan 30 j 06:30 | 0°♈       |            | asc. node           | -3073 Jul 11 j 23:52 | 2°♈02'03             |            |  |
|                     | -3075 Feb 27 j 14:49 | 0°♈       |            |                     | -3073 Aug 03 j 13:52 | 0°♈                  |            |  |
| evening max el      | -3075 Mar 01 j 17:20 | 2°♈02'47  | 45°20'06   | morning set         | -3073 Aug 23 j 00:24 | 24°♈19'37            |            |  |
| greatest brilliancy | -3075 Apr 08 j 09:30 | 29°♈35'07 | -4.7m      |                     | -3073 Aug 27 j 12:43 | 0°♈                  |            |  |
|                     | -3075 Apr 09 j 14:03 | 0°♈       |            |                     | -3073 Sep 20 j 07:57 | 0°♈                  |            |  |
| retrograde          | -3075 Apr 19 j 01:44 | 1°♈37'45  |            |                     |                      |                      |            |  |
|                     | -3075 Apr 28 j 04:51 | 30°♈      |            | superior conj       | -3073 Oct 01 j 06:05 | 13°♈47'01            | 1°03'25    |  |
| evening set         | -3075 May 04 j 06:57 | 27°♈13'38 |            | minimum elong       | -3073 Oct 01 j 17:09 | 14°♈21'54            | 1°03'06    |  |
| inferior conj       | -3075 May 10 j 13:00 | 23°♈30'08 | 1°14'19    | max. Earth dist.    | -3073 Oct 02 j 00:25 | 14°♈44'52            | 1.70919 AU |  |
| minimum elong       | -3075 May 10 j 15:41 | 23°♈25'57 | 1°13'35    |                     | -3073 Oct 14 j 02:41 | 0°♈                  |            |  |
| min. Earth dist.    | -3075 May 11 j 03:14 | 23°♈07'55 | 0.28949 AU | desc. node          | -3073 Oct 31 j 17:37 | 22°♈10'50            |            |  |
| desc. node          | -3075 May 15 j 21:51 | 20°♈14'28 |            |                     | -3073 Nov 06 j 22:59 | 0°♈                  |            |  |
| morning rise        | -3075 May 16 j 23:49 | 19°♈38'05 |            | evening rise        | -3073 Nov 12 j 08:28 | 6°♈46'12             |            |  |
| direct              | -3075 Jun 01 j 07:13 | 15°♈09'59 |            |                     | -3073 Nov 30 j 21:57 | 0°♈                  |            |  |
| greatest brilliancy | -3075 Jun 12 j 05:37 | 17°♈17'28 | -4.7m      |                     | -3073 Dec 25 j 00:25 | 0°♈                  |            |  |
|                     | -3075 Jul 03 j 01:16 | 0°♈       |            |                     | -3072 Jan 18 j 08:06 | 0°♈                  |            |  |
| morning max el      | -3075 Jul 20 j 14:47 | 15°♈40'10 | 46°10'38   |                     | -3072 Feb 12 j 00:11 | 0°♈                  |            |  |
|                     | -3075 Aug 03 j 16:06 | 0°♈       |            | asc. node           | -3072 Feb 21 j 15:38 | 11°♈33'35            |            |  |
|                     | -3075 Aug 30 j 13:14 | 0°♈       |            |                     | -3072 Mar 08 j 05:49 | 0°♈                  |            |  |
| asc. node           | -3075 Sep 05 j 21:28 | 7°♈25'03  |            |                     | -3072 Apr 03 j 09:44 | 0°♈                  |            |  |
|                     | -3075 Sep 24 j 18:11 | 0°♈       |            |                     | -3072 May 01 j 09:00 | 0°♈                  |            |  |
|                     | -3075 Oct 19 j 04:17 | 0°♈       |            | evening max el      | -3072 May 11 j 16:44 | 10°♈10'10            | 45°22'09   |  |
|                     | -3075 Nov 12 j 06:35 | 0°♈       |            |                     | -3072 Jun 04 j 08:55 | 0°♈                  |            |  |
|                     | -3075 Dec 06 j 07:26 | 0°♈       |            | desc. node          | -3072 Jun 12 j 09:39 | 4°♈53'49             |            |  |
| desc. node          | -3075 Dec 26 j 15:39 | 25°♈19'48 |            | greatest brilliancy | -3072 Jun 19 j 10:06 | 7°♈58'11             | -4.7m      |  |
|                     | -3075 Dec 30 j 09:51 | 0°♈       |            | retrograde          | -3072 Jun 29 j 10:13 | 9°♈45'41             |            |  |
|                     | -3074 Jan 23 j 14:38 | 0°♈       |            | evening set         | -3072 Jul 15 j 21:07 | 4°♈40'39             |            |  |
| morning set         | -3074 Jan 24 j 17:02 | 1°♈21'40  |            | inferior conj       | -3072 Jul 20 j 12:31 | 1°♈55'41             | -7°35'00   |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 67

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |            |            |                     |                      |            |            |
|---------------------|----------------------|------------|------------|---------------------|----------------------|------------|------------|
| minimum elong       | -3072 Jul 20 j 03:15 | 2°☾09'46   | 7°33'30    | minimum elong       | -3070 Dec 18 j 00:12 | 3°♊15'03   | 0°44'31    |
| min. Earth dist.    | -3072 Jul 20 j 20:07 | 1°☾44'09   | 0.27886 AU | max. Earth dist.    | -3070 Dec 23 j 04:21 | 9°♊42'38   | 1.71760 AU |
|                     | -3072 Jul 23 j 17:26 | 30°♈II     |            |                     | -3069 Jan 08 j 11:13 | 0°♊        |            |
| morning rise        | -3072 Jul 24 j 09:06 | 29°II37'04 |            | evening rise        | -3069 Jan 28 j 01:48 | 24°♊19'32  |            |
| direct              | -3072 Aug 10 j 18:13 | 23°II56'12 |            |                     | -3069 Feb 01 j 15:55 | 0°♊        |            |
| greatest brilliancy | -3072 Aug 21 j 17:53 | 26°II10'01 | -4.9m      | greatest brilliancy | -3069 Feb 05 j 21:21 | 5°♊13'13   | -3.9m      |
|                     | -3072 Aug 29 j 12:30 | 0°☾        |            |                     | -3069 Feb 26 j 00:39 | 0°♈        |            |
| morning max el      | -3072 Sep 30 j 08:01 | 26°☾49'53  | 46°47'25   | asc. node           | -3069 Mar 21 j 03:43 | 28°♈13'57  |            |
| asc. node           | -3072 Oct 03 j 08:52 | 29°☾56'54  |            |                     | -3069 Mar 22 j 14:39 | 0°♈        |            |
|                     | -3072 Oct 03 j 10:04 | 0°♏        |            |                     | -3069 Apr 16 j 11:28 | 0°♈        |            |
|                     | -3072 Oct 30 j 13:05 | 0°♏        |            |                     | -3069 May 11 j 17:25 | 0°II       |            |
|                     | -3072 Nov 24 j 21:55 | 0°♏        |            |                     | -3069 Jun 06 j 13:16 | 0°☾        |            |
|                     | -3072 Dec 19 j 16:34 | 0°♏        |            |                     | -3069 Jul 03 j 11:11 | 0°♏        |            |
|                     | -3071 Jan 13 j 07:12 | 0°♊        |            | desc. node          | -3069 Jul 10 j 21:25 | 7°♏54'30   |            |
| desc. node          | -3071 Jan 23 j 03:35 | 12°♊01'16  |            | evening max el      | -3069 Jul 24 j 23:07 | 22°♏12'32  | 46°39'48   |
|                     | -3071 Feb 06 j 21:12 | 0°♊        |            |                     | -3069 Aug 02 j 04:44 | 0°♏        |            |
|                     | -3071 Mar 03 j 11:07 | 0°♊        |            | greatest brilliancy | -3069 Sep 03 j 21:06 | 22°♏13'07  | -4.9m      |
|                     | -3071 Mar 28 j 00:32 | 0°♈        |            | retrograde          | -3069 Sep 12 j 21:28 | 23°♏43'52  |            |
| morning set         | -3071 Apr 05 j 05:23 | 10°♈01'43  |            | evening set         | -3069 Sep 29 j 04:00 | 18°♏39'11  |            |
|                     | -3071 Apr 21 j 12:49 | 0°♈        |            | inferior conj       | -3069 Oct 03 j 11:45 | 16°♏04'52  | -6°32'55   |
| max. Earth dist.    | -3071 May 09 j 01:09 | 21°♈29'17  | 1.73622 AU | minimum elong       | -3069 Oct 03 j 22:33 | 15°♏48'26  | 6°30'30    |
|                     |                      |            |            | min. Earth dist.    | -3069 Oct 03 j 20:51 | 15°♏51'01  | 0.26514 AU |
| superior conj       | -3071 May 11 j 07:00 | 24°♈14'44  | -0°11'15   | morning rise        | -3069 Oct 08 j 16:55 | 13°♏00'30  |            |
| minimum elong       | -3071 May 11 j 09:12 | 24°♈21'29  | 0°11'07    | direct              | -3069 Oct 23 j 20:52 | 8°♏28'36   |            |
| behind sun begin    | -3071 May 10 j 17:17 | 23°♈32'34  |            | asc. node           | -3069 Oct 31 j 20:24 | 9°♏42'44   |            |
| behind sun end      | -3071 May 12 j 01:07 | 25°♈10'25  |            | greatest brilliancy | -3069 Nov 03 j 09:36 | 10°♏35'12  | -4.9m      |
|                     | -3071 May 15 j 23:19 | 0°♈        |            |                     | -3069 Dec 01 j 05:44 | 0°♏        |            |
| asc. node           | -3071 May 16 j 01:56 | 0°♈08'04   |            | morning max el      | -3069 Dec 13 j 10:49 | 11°♏49'08  | 46°45'48   |
|                     | -3071 Jun 09 j 07:32 | 0°II       |            |                     | -3069 Dec 30 j 15:20 | 0°♏        |            |
| evening rise        | -3071 Jun 15 j 22:15 | 8°II10'18  |            |                     | -3068 Jan 26 j 06:02 | 0°♊        |            |
|                     | -3071 Jul 03 j 13:41 | 0°☾        |            | desc. node          | -3068 Feb 20 j 15:24 | 29°♊35'48  |            |
|                     | -3071 Jul 27 j 18:53 | 0°♏        |            |                     | -3068 Feb 20 j 23:38 | 0°♊        |            |
|                     | -3071 Aug 21 j 00:57 | 0°♏        |            |                     | -3068 Mar 17 j 07:30 | 0°♊        |            |
| desc. node          | -3071 Sep 04 j 19:24 | 18°♏12'02  |            |                     | -3068 Apr 11 j 09:02 | 0°♈        |            |
|                     | -3071 Sep 14 j 09:56 | 0°♏        |            |                     | -3068 May 06 j 05:02 | 0°♈        |            |
|                     | -3071 Oct 09 j 00:25 | 0°♏        |            |                     | -3068 May 30 j 19:24 | 0°♈        |            |
|                     | -3071 Nov 03 j 01:28 | 0°♊        |            | morning set         | -3068 Jun 11 j 02:11 | 13°♈51'41  |            |
|                     | -3071 Nov 29 j 02:29 | 0°♊        |            | asc. node           | -3068 Jun 12 j 14:04 | 15°♈42'11  |            |
| evening max el      | -3071 Dec 18 j 11:43 | 20°♊42'33  | 46°37'33   |                     | -3068 Jun 24 j 03:57 | 0°II       |            |
| asc. node           | -3071 Dec 26 j 17:48 | 28°♊47'25  |            | max. Earth dist.    | -3068 Jul 13 j 02:46 | 23°II32'01 | 1.72290 AU |
|                     | -3071 Dec 28 j 00:47 | 0°♊        |            |                     |                      |            |            |
| greatest brilliancy | -3070 Jan 26 j 19:56 | 21°♊08'10  | -4.8m      | superior conj       | -3068 Jul 17 j 12:55 | 29°II02'50 | 1°09'59    |
| retrograde          | -3070 Feb 06 j 17:27 | 23°♊20'49  |            | minimum elong       | -3068 Jul 17 j 04:37 | 28°II36'58 | 1°09'52    |
| evening set         | -3070 Feb 24 j 11:00 | 17°♊13'33  |            |                     | -3068 Jul 18 j 07:15 | 0°☾        |            |
| inferior conj       | -3070 Feb 28 j 01:10 | 14°♊57'30  | 8°06'26    |                     | -3068 Aug 11 j 06:53 | 0°♏        |            |
| minimum elong       | -3070 Feb 28 j 05:17 | 14°♊50'55  | 8°06'06    | evening rise        | -3068 Aug 23 j 21:48 | 15°♏49'32  |            |
| min. Earth dist.    | -3070 Feb 27 j 21:11 | 15°♊03'51  | 0.29083 AU |                     | -3068 Sep 04 j 05:02 | 0°♏        |            |
| morning rise        | -3070 Mar 03 j 23:48 | 12°♊29'07  |            |                     | -3068 Sep 28 j 03:48 | 0°♏        |            |
| direct              | -3070 Mar 21 j 13:10 | 6°♊36'38   |            | desc. node          | -3068 Oct 02 j 07:30 | 5°♏11'40   |            |
| greatest brilliancy | -3070 Mar 31 j 00:37 | 8°♊15'21   | -4.7m      |                     | -3068 Oct 22 j 04:43 | 0°♏        |            |
| desc. node          | -3070 Apr 17 j 12:17 | 17°♊49'17  |            |                     | -3068 Nov 15 j 09:20 | 0°♊        |            |
|                     | -3070 May 02 j 10:15 | 0°♈        |            |                     | -3068 Dec 09 j 20:29 | 0°♊        |            |
| morning max el      | -3070 May 09 j 08:58 | 6°♈25'56   | 45°47'41   |                     | -3067 Jan 03 j 20:17 | 0°♊        |            |
|                     | -3070 Jun 01 j 12:27 | 0°♈        |            | asc. node           | -3067 Jan 23 j 05:40 | 22°♊29'36  |            |
|                     | -3070 Jun 28 j 11:21 | 0°♈        |            |                     | -3067 Jan 29 j 21:51 | 0°♈        |            |
|                     | -3070 Jul 24 j 01:05 | 0°II       |            | evening max el      | -3067 Feb 27 j 07:50 | 29°♈49'05  | 45°21'41   |
| asc. node           | -3070 Aug 08 j 11:46 | 18°II38'47 |            |                     | -3067 Feb 27 j 12:22 | 0°♈        |            |
|                     | -3070 Aug 17 j 18:31 | 0°☾        |            | greatest brilliancy | -3067 Apr 06 j 01:24 | 27°♈27'01  | -4.7m      |
|                     | -3070 Sep 10 j 22:54 | 0°♏        |            | retrograde          | -3067 Apr 16 j 17:57 | 29°♈30'32  |            |
|                     | -3070 Oct 04 j 20:10 | 0°♏        |            | evening set         | -3067 May 02 j 00:42 | 25°♈03'40  |            |
|                     | -3070 Oct 28 j 15:12 | 0°♏        |            | inferior conj       | -3067 May 08 j 05:28 | 21°♈22'00  | 1°33'21    |
| morning set         | -3070 Nov 06 j 05:27 | 10°♏49'45  |            | minimum elong       | -3067 May 08 j 08:48 | 21°♈16'46  | 1°32'27    |
|                     | -3070 Nov 21 j 11:14 | 0°♏        |            | min. Earth dist.    | -3067 May 08 j 20:04 | 20°♈59'13  | 0.28983 AU |
| desc. node          | -3070 Nov 28 j 05:42 | 8°♏29'58   |            | morning rise        | -3067 May 14 j 16:19 | 17°♈29'48  |            |
|                     | -3070 Dec 15 j 09:46 | 0°♊        |            | desc. node          | -3067 May 14 j 24:00 | 17°♈19'20  |            |
|                     |                      |            |            | direct              | -3067 May 29 j 23:26 | 13°♈01'00  |            |
| superior conj       | -3070 Dec 18 j 10:33 | 3°♊47'22   | -0°44'52   | greatest brilliancy | -3067 Jun 09 j 22:34 | 15°♈09'07  | -4.7m      |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |  |                     |                      |           |            |  |
|---------------------|----------------------|-----------|------------|--|---------------------|----------------------|-----------|------------|--|
|                     | -3067 Jul 03 j 09:42 | 0°♄       |            |  |                     | -3064 Jan 17 j 19:50 | 0°♁       |            |  |
| morning max el      | -3067 Jul 18 j 06:39 | 13°♄27'54 | 46°09'24   |  |                     | -3064 Feb 11 j 12:22 | 0°♁       |            |  |
|                     | -3067 Aug 03 j 10:04 | 0°♁       |            |  | asc. node           | -3064 Feb 20 j 17:38 | 11°♁02'24 |            |  |
|                     | -3067 Aug 30 j 03:43 | 0°♁       |            |  |                     | -3064 Mar 07 j 18:56 | 0°♁       |            |  |
| asc. node           | -3067 Sep 04 j 23:27 | 6°♁49'38  |            |  |                     | -3064 Apr 03 j 00:47 | 0°♄       |            |  |
|                     | -3067 Sep 24 j 07:13 | 0°♁       |            |  |                     | -3064 May 01 j 05:03 | 0°♁       |            |  |
|                     | -3067 Oct 18 j 16:35 | 0°♁       |            |  | evening max el      | -3064 May 09 j 08:25 | 7°♁57'57  | 45°20'36   |  |
|                     | -3067 Nov 11 j 18:27 | 0°♁       |            |  |                     | -3064 Jun 05 j 10:25 | 0°♁       |            |  |
|                     | -3067 Dec 05 j 18:59 | 0°♁       |            |  | desc. node          | -3064 Jun 11 j 11:48 | 3°♁23'02  |            |  |
| desc. node          | -3067 Dec 25 j 17:46 | 24°♁50'59 |            |  | greatest brilliancy | -3064 Jun 16 j 22:23 | 5°♁39'45  | -4.7m      |  |
|                     | -3067 Dec 29 j 21:11 | 0°♄       |            |  | retrograde          | -3064 Jun 27 j 00:07 | 7°♁28'07  |            |  |
| morning set         | -3066 Jan 22 j 05:27 | 28°♄57'03 |            |  | evening set         | -3064 Jul 13 j 07:32 | 2°♁28'15  |            |  |
|                     | -3066 Jan 23 j 01:47 | 0°♄       |            |  |                     | -3064 Jul 17 j 11:57 | 30°♁♁     |            |  |
|                     | -3066 Feb 16 j 08:33 | 0°♁       |            |  | inferior conj       | -3064 Jul 18 j 02:40 | 29°♁37'37 | -7°23'12   |  |
|                     |                      |           |            |  | minimum elong       | -3064 Jul 17 j 17:03 | 29°♁52'14 | 7°21'31    |  |
| superior conj       | -3066 Mar 02 j 05:25 | 17°♁05'39 | -1°20'54   |  | min. Earth dist.    | -3064 Jul 18 j 09:48 | 29°♁26'45 | 0.27931 AU |  |
| minimum elong       | -3066 Mar 02 j 10:24 | 17°♁21'01 | 1°20'53    |  | morning rise        | -3064 Jul 22 j 02:19 | 27°♁14'18 |            |  |
| max. Earth dist.    | -3066 Mar 03 j 23:35 | 19°♁15'28 | 1.73304 AU |  | direct              | -3064 Aug 08 j 09:37 | 21°♁37'31 |            |  |
|                     | -3066 Mar 12 j 17:09 | 0°♁       |            |  | greatest brilliancy | -3064 Aug 19 j 08:05 | 23°♁50'05 | -4.8m      |  |
|                     | -3066 Apr 06 j 03:26 | 0°♁       |            |  |                     | -3064 Aug 30 j 20:00 | 0°♁       |            |  |
| evening rise        | -3066 Apr 08 j 08:58 | 2°♁44'05  |            |  | morning max el      | -3064 Sep 27 j 22:10 | 24°♁26'33 | 46°46'22   |  |
| asc. node           | -3066 Apr 17 j 15:56 | 14°♁07'05 |            |  | asc. node           | -3064 Oct 02 j 11:02 | 29°♁07'08 |            |  |
|                     | -3066 Apr 30 j 15:20 | 0°♄       |            |  |                     | -3064 Oct 03 j 07:12 | 0°♁       |            |  |
|                     | -3066 May 25 j 04:56 | 0°♁       |            |  |                     | -3064 Oct 30 j 05:09 | 0°♁       |            |  |
|                     | -3066 Jun 18 j 20:55 | 0°♁       |            |  |                     | -3064 Nov 24 j 11:58 | 0°♁       |            |  |
|                     | -3066 Jul 13 j 17:05 | 0°♁       |            |  |                     | -3064 Dec 19 j 05:33 | 0°♁       |            |  |
| desc. node          | -3066 Aug 07 j 09:17 | 29°♁25'26 |            |  |                     | -3063 Jan 12 j 19:29 | 0°♄       |            |  |
|                     | -3066 Aug 07 j 21:00 | 0°♁       |            |  | desc. node          | -3063 Jan 22 j 05:41 | 11°♄30'52 |            |  |
|                     | -3066 Sep 02 j 15:45 | 0°♁       |            |  |                     | -3063 Feb 06 j 08:58 | 0°♄       |            |  |
|                     | -3066 Sep 29 j 20:24 | 0°♁       |            |  |                     | -3063 Mar 02 j 22:31 | 0°♁       |            |  |
| evening max el      | -3066 Oct 05 j 22:21 | 6°♁17'25  | 47°33'30   |  |                     | -3063 Mar 27 j 11:41 | 0°♁       |            |  |
|                     | -3066 Nov 01 j 08:38 | 0°♄       |            |  | morning set         | -3063 Apr 02 j 23:30 | 7°♁56'24  |            |  |
| greatest brilliancy | -3066 Nov 15 j 16:21 | 8°♄10'50  | -4.9m      |  |                     | -3063 Apr 20 j 23:50 | 0°♁       |            |  |
| retrograde          | -3066 Nov 26 j 01:33 | 10°♄16'10 |            |  | max. Earth dist.    | -3063 May 06 j 22:52 | 19°♁34'51 | 1.73638 AU |  |
| asc. node           | -3066 Nov 28 j 08:09 | 10°♄09'38 |            |  |                     |                      |           |            |  |
| evening set         | -3066 Dec 10 j 23:21 | 5°♄45'55  |            |  | superior conj       | -3063 May 09 j 01:59 | 22°♁11'51 | -0°14'16   |  |
| min. Earth dist.    | -3066 Dec 15 j 19:44 | 2°♄51'29  | 0.27124 AU |  | minimum elong       | -3063 May 09 j 04:46 | 22°♁20'24 | 0°14'06    |  |
| inferior conj       | -3066 Dec 16 j 20:37 | 2°♄12'33  | 4°26'40    |  | behind sun begin    | -3063 May 08 j 18:41 | 21°♁49'25 |            |  |
| minimum elong       | -3066 Dec 16 j 12:10 | 2°♄25'46  | 4°24'19    |  | behind sun end      | -3063 May 09 j 14:51 | 22°♁51'23 |            |  |
|                     | -3066 Dec 20 j 10:44 | 30°♁♁     |            |  | asc. node           | -3063 May 15 j 04:10 | 29°♁41'09 |            |  |
| morning rise        | -3066 Dec 22 j 01:43 | 29°♁03'21 |            |  |                     | -3063 May 15 j 10:18 | 0°♄       |            |  |
| direct              | -3065 Jan 06 j 07:42 | 24°♁24'26 |            |  |                     | -3063 Jun 08 j 18:35 | 0°♁       |            |  |
| greatest brilliancy | -3065 Jan 15 j 07:36 | 25°♁56'09 | -4.8m      |  | evening rise        | -3063 Jun 13 j 17:30 | 6°♁07'12  |            |  |
|                     | -3065 Jan 24 j 06:55 | 0°♄       |            |  |                     | -3063 Jul 03 j 00:55 | 0°♁       |            |  |
| morning max el      | -3065 Feb 24 j 14:54 | 25°♄19'03 | 46°08'24   |  |                     | -3063 Jul 27 j 06:25 | 0°♁       |            |  |
|                     | -3065 Mar 01 j 09:19 | 0°♄       |            |  |                     | -3063 Aug 20 j 12:55 | 0°♁       |            |  |
| desc. node          | -3065 Mar 20 j 02:55 | 19°♄28'37 |            |  | desc. node          | -3063 Sep 03 j 21:25 | 17°♁40'28 |            |  |
|                     | -3065 Mar 29 j 18:54 | 0°♁       |            |  |                     | -3063 Sep 13 j 22:29 | 0°♁       |            |  |
|                     | -3065 Apr 25 j 08:59 | 0°♁       |            |  |                     | -3063 Oct 08 j 13:45 | 0°♁       |            |  |
|                     | -3065 May 21 j 01:50 | 0°♁       |            |  |                     | -3063 Nov 02 j 16:06 | 0°♄       |            |  |
|                     | -3065 Jun 15 j 04:25 | 0°♄       |            |  |                     | -3063 Nov 28 j 19:53 | 0°♄       |            |  |
|                     | -3065 Jul 09 j 19:29 | 0°♁       |            |  | evening max el      | -3063 Dec 16 j 03:20 | 18°♄25'22 | 46°40'33   |  |
| asc. node           | -3065 Jul 11 j 02:01 | 1°♁33'52  |            |  | asc. node           | -3063 Dec 25 j 19:56 | 27°♄52'03 |            |  |
|                     | -3065 Aug 03 j 01:06 | 0°♁       |            |  |                     | -3063 Dec 28 j 03:38 | 0°♁       |            |  |
| morning set         | -3065 Aug 20 j 14:40 | 21°♁58'37 |            |  | greatest brilliancy | -3062 Jan 24 j 13:26 | 18°♁57'27 | -4.8m      |  |
|                     | -3065 Aug 26 j 23:55 | 0°♁       |            |  | retrograde          | -3062 Feb 04 j 10:10 | 21°♁09'27 |            |  |
|                     | -3065 Sep 19 j 19:12 | 0°♁       |            |  | evening set         | -3062 Feb 22 j 04:49 | 15°♁00'54 |            |  |
|                     |                      |           |            |  | inferior conj       | -3062 Feb 25 j 17:52 | 12°♁46'19 | 8°11'01    |  |
| superior conj       | -3065 Sep 28 j 17:00 | 11°♁14'26 | 1°05'53    |  | minimum elong       | -3062 Feb 25 j 21:21 | 12°♁40'45 | 8°10'44    |  |
| minimum elong       | -3065 Sep 29 j 03:50 | 11°♁48'35 | 1°05'36    |  | min. Earth dist.    | -3062 Feb 25 j 12:41 | 12°♁54'38 | 0.29044 AU |  |
| max. Earth dist.    | -3065 Sep 29 j 07:19 | 11°♁59'37 | 1.70930 AU |  | morning rise        | -3062 Mar 01 j 14:07 | 10°♁21'16 |            |  |
|                     | -3065 Oct 13 j 13:58 | 0°♁       |            |  | direct              | -3062 Mar 19 j 05:23 | 4°♁26'20  |            |  |
| desc. node          | -3065 Oct 30 j 19:46 | 21°♁41'58 |            |  | greatest brilliancy | -3062 Mar 28 j 15:07 | 6°♁03'26  | -4.7m      |  |
|                     | -3065 Nov 06 j 10:20 | 0°♁       |            |  | desc. node          | -3062 Apr 16 j 14:32 | 16°♁41'40 |            |  |
| evening rise        | -3065 Nov 09 j 17:10 | 4°♁07'19  |            |  |                     | -3062 May 02 j 11:40 | 0°♁       |            |  |
|                     | -3065 Nov 30 j 09:22 | 0°♄       |            |  | morning max el      | -3062 May 07 j 00:11 | 4°♁13'50  | 45°47'36   |  |
|                     | -3065 Dec 24 j 11:56 | 0°♄       |            |  |                     | -3062 Jun 01 j 05:04 | 0°♁       |            |  |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3062 Jun 28 j 01:13 | 0°♄       |            |                     | -3059 Jan 29 j 13:43 | 0°♄       |            |
|                     | -3062 Jul 23 j 13:41 | 0°♄       |            | evening max el      | -3059 Feb 24 j 23:00 | 27°♄36'10 | 45°23'25   |
| asc. node           | -3062 Aug 07 j 13:49 | 18°♄08'01 |            |                     | -3059 Feb 27 j 11:07 | 0°♄       |            |
|                     | -3062 Aug 17 j 06:28 | 0°♄       |            | greatest brilliancy | -3059 Apr 03 j 17:06 | 25°♄18'02 | -4.7m      |
|                     | -3062 Sep 10 j 10:32 | 0°♄       |            | retrograde          | -3059 Apr 14 j 10:52 | 27°♄22'45 |            |
|                     | -3062 Oct 04 j 07:40 | 0°♄       |            | evening set         | -3059 Apr 29 j 18:38 | 22°♄53'06 |            |
| morning set         | -3062 Oct 28 j 02:39 | 0°♄       |            | inferior conj       | -3059 May 05 j 21:58 | 19°♄13'17 | 1°52'17    |
|                     | -3062 Nov 03 j 15:27 | 8°♄14'08  |            | minimum elong       | -3059 May 06 j 01:57 | 19°♄07'03 | 1°51'12    |
|                     | -3062 Nov 20 j 22:39 | 0°♄       |            | min. Earth dist.    | -3059 May 06 j 12:34 | 18°♄50'31 | 0.29012 AU |
| desc. node          | -3062 Nov 27 j 07:52 | 8°♄01'00  |            | morning rise        | -3059 May 12 j 08:44 | 15°♄21'24 |            |
|                     | -3062 Dec 14 j 21:07 | 0°♄       |            | desc. node          | -3059 May 14 j 02:08 | 14°♄26'44 |            |
|                     |                      |           |            | direct              | -3059 May 27 j 16:01 | 10°♄51'41 |            |
| superior conj       | -3062 Dec 15 j 20:18 | 1°♄12'27  | -0°41'29   | greatest brilliancy | -3059 Jun 07 j 14:58 | 12°♄59'57 | -4.7m      |
| minimum elong       | -3062 Dec 15 j 10:26 | 0°♄41'37  | 0°41'09    |                     | -3059 Jul 03 j 15:53 | 0°♄       |            |
| max. Earth dist.    | -3062 Dec 20 j 15:26 | 7°♄12'00  | 1.71702 AU | morning max el      | -3059 Jul 15 j 23:18 | 11°♄17'32 | 46°08'09   |
|                     | -3061 Jan 07 j 22:30 | 0°♄       |            |                     | -3059 Aug 03 j 03:43 | 0°♄       |            |
| evening rise        | -3061 Jan 25 j 14:39 | 21°♄55'50 |            |                     | -3059 Aug 29 j 18:07 | 0°♄       |            |
|                     | -3061 Feb 01 j 03:11 | 0°♄       |            | asc. node           | -3059 Sep 04 j 01:37 | 6°♄14'42  |            |
| greatest brilliancy | -3061 Feb 06 j 11:29 | 6°♄36'06  | -3.9m      |                     | -3059 Sep 23 j 20:14 | 0°♄       |            |
|                     | -3061 Feb 25 j 12:00 | 0°♄       |            |                     | -3059 Oct 18 j 04:53 | 0°♄       |            |
| asc. node           | -3061 Mar 20 j 05:52 | 27°♄45'22 |            |                     | -3059 Nov 11 j 06:18 | 0°♄       |            |
|                     | -3061 Mar 22 j 02:14 | 0°♄       |            |                     | -3059 Dec 05 j 06:33 | 0°♄       |            |
|                     | -3061 Apr 15 j 23:33 | 0°♄       |            | desc. node          | -3059 Dec 24 j 19:49 | 24°♄21'58 |            |
|                     | -3061 May 11 j 06:24 | 0°♄       |            |                     | -3059 Dec 29 j 08:31 | 0°♄       |            |
|                     | -3061 Jun 06 j 03:56 | 0°♄       |            | morning set         | -3058 Jan 19 j 17:54 | 26°♄32'22 |            |
|                     | -3061 Jul 03 j 05:21 | 0°♄       |            |                     | -3058 Jan 22 j 12:57 | 0°♄       |            |
| desc. node          | -3061 Jul 09 j 23:30 | 7°♄08'24  |            |                     | -3058 Feb 15 j 19:35 | 0°♄       |            |
| evening max el      | -3061 Jul 22 j 10:52 | 19°♄45'17 | 46°36'45   |                     |                      |           |            |
|                     | -3061 Aug 02 j 10:07 | 0°♄       |            | superior conj       | -3058 Feb 27 j 21:29 | 14°♄53'35 | -1°21'44   |
| greatest brilliancy | -3061 Sep 01 j 10:04 | 19°♄45'06 | -4.9m      | minimum elong       | -3058 Feb 28 j 01:50 | 15°♄07'00 | 1°21'45    |
| retrograde          | -3061 Sep 10 j 08:44 | 21°♄14'48 |            | max. Earth dist.    | -3058 Mar 01 j 17:39 | 17°♄09'36 | 1.73269 AU |
| evening set         | -3061 Sep 26 j 19:31 | 16°♄05'19 |            |                     | -3058 Mar 12 j 04:06 | 0°♄       |            |
| inferior conj       | -3061 Sep 30 j 23:58 | 13°♄36'00 | -6°49'07   |                     | -3058 Apr 05 j 14:23 | 0°♄       |            |
| minimum elong       | -3061 Oct 01 j 10:43 | 13°♄19'41 | 6°46'48    | evening rise        | -3058 Apr 06 j 03:06 | 0°♄38'57  |            |
| min. Earth dist.    | -3061 Oct 01 j 10:13 | 13°♄20'27 | 0.26549 AU | asc. node           | -3058 Apr 16 j 18:07 | 13°♄40'03 |            |
| morning rise        | -3061 Oct 06 j 01:39 | 10°♄36'24 |            |                     | -3058 Apr 30 j 02:26 | 0°♄       |            |
| direct              | -3061 Oct 21 j 08:58 | 5°♄58'58  |            |                     | -3058 May 24 j 16:21 | 0°♄       |            |
| asc. node           | -3061 Oct 30 j 22:37 | 7°♄43'59  |            |                     | -3058 Jun 18 j 08:50 | 0°♄       |            |
| greatest brilliancy | -3061 Oct 31 j 23:57 | 8°♄07'21  | -4.9m      |                     | -3058 Jul 13 j 05:47 | 0°♄       |            |
|                     | -3061 Dec 01 j 10:44 | 0°♄       |            | desc. node          | -3058 Aug 06 j 11:20 | 28°♄50'32 |            |
| morning max el      | -3061 Dec 10 j 23:26 | 9°♄20'13  | 46°46'40   |                     | -3058 Aug 07 j 10:55 | 0°♄       |            |
|                     | -3061 Dec 30 j 09:38 | 0°♄       |            |                     | -3058 Sep 02 j 07:52 | 0°♄       |            |
|                     | -3060 Jan 25 j 20:59 | 0°♄       |            |                     | -3058 Sep 29 j 17:37 | 0°♄       |            |
| desc. node          | -3060 Feb 19 j 17:25 | 29°♄02'28 |            | evening max el      | -3058 Oct 03 j 13:54 | 3°♄56'58  | 47°33'34   |
|                     | -3060 Feb 20 j 12:56 | 0°♄       |            |                     | -3058 Nov 02 j 10:18 | 0°♄       |            |
|                     | -3060 Mar 16 j 19:51 | 0°♄       |            | greatest brilliancy | -3058 Nov 13 j 06:52 | 5°♄45'50  | -4.9m      |
|                     | -3060 Apr 10 j 20:45 | 0°♄       |            | retrograde          | -3058 Nov 23 j 16:28 | 7°♄51'17  |            |
|                     | -3060 May 05 j 16:21 | 0°♄       |            | asc. node           | -3058 Nov 27 j 10:14 | 7°♄33'33  |            |
|                     | -3060 May 30 j 06:30 | 0°♄       |            | evening set         | -3058 Dec 08 j 11:31 | 3°♄24'01  |            |
| morning set         | -3060 Jun 08 j 20:28 | 11°♄46'11 |            | min. Earth dist.    | -3058 Dec 13 j 09:39 | 0°♄27'17  | 0.27054 AU |
| asc. node           | -3060 Jun 11 j 16:09 | 15°♄14'32 |            | inferior conj       | -3058 Dec 14 j 10:25 | 29°♄48'38 | 4°07'15    |
|                     | -3060 Jun 23 j 14:59 | 0°♄       |            | minimum elong       | -3058 Dec 14 j 02:23 | 0°♄01'10  | 4°04'58    |
| max. Earth dist.    | -3060 Jul 10 j 21:32 | 21°♄26'34 | 1.72352 AU |                     | -3058 Dec 14 j 03:08 | 30°♄      |            |
|                     |                      |           |            | morning rise        | -3058 Dec 19 j 18:05 | 26°♄36'30 |            |
| superior conj       | -3060 Jul 15 j 06:09 | 26°♄52'26 | 1°08'08    | direct              | -3057 Jan 03 j 21:22 | 22°♄01'46 |            |
| minimum elong       | -3060 Jul 14 j 21:39 | 26°♄25'55 | 1°07'59    | greatest brilliancy | -3057 Jan 12 j 21:04 | 23°♄33'53 | -4.8m      |
|                     | -3060 Jul 17 j 18:19 | 0°♄       |            |                     | -3057 Jan 25 j 17:16 | 0°♄       |            |
|                     | -3060 Aug 10 j 18:03 | 0°♄       |            | morning max el      | -3057 Feb 22 j 06:03 | 23°♄03'41 | 46°09'36   |
| evening rise        | -3060 Aug 21 j 11:59 | 13°♄28'19 |            |                     | -3057 Mar 01 j 06:16 | 0°♄       |            |
|                     | -3060 Sep 03 j 16:22 | 0°♄       |            | desc. node          | -3057 Mar 19 j 05:11 | 18°♄49'30 |            |
|                     | -3060 Sep 27 j 15:19 | 0°♄       |            |                     | -3057 Mar 29 j 10:21 | 0°♄       |            |
| desc. node          | -3060 Oct 01 j 09:42 | 4°♄42'28  |            |                     | -3057 Apr 24 j 22:15 | 0°♄       |            |
|                     | -3060 Oct 21 j 16:28 | 0°♄       |            |                     | -3057 May 20 j 14:00 | 0°♄       |            |
|                     | -3060 Nov 14 j 21:25 | 0°♄       |            |                     | -3057 Jun 14 j 15:58 | 0°♄       |            |
|                     | -3060 Dec 09 j 09:06 | 0°♄       |            |                     | -3057 Jul 09 j 06:42 | 0°♄       |            |
|                     | -3059 Jan 03 j 09:54 | 0°♄       |            | asc. node           | -3057 Jul 10 j 04:04 | 1°♄05'41  |            |
| asc. node           | -3059 Jan 22 j 07:40 | 21°♄52'39 |            |                     | -3057 Aug 02 j 12:10 | 0°♄       |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 70

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
| morning set         | -3057 Aug 18 j 05:03 | 19° $\text{☿}$ 38'36 |            | evening set         | -3054 Feb 19 j 22:15 | 12° $\text{♊}$ 49'15 |            |
|                     | -3057 Aug 26 j 10:56 | 0° $\text{♊}$        |            | inferior conj       | -3054 Feb 23 j 10:30 | 10° $\text{♊}$ 35'49 | 8°14'44    |
|                     | -3057 Sep 19 j 06:15 | 0° $\text{♋}$        |            | minimum elong       | -3054 Feb 23 j 13:19 | 10° $\text{♊}$ 31'19 | 8°14'33    |
|                     |                      |                      |            | min. Earth dist.    | -3054 Feb 23 j 04:22 | 10° $\text{♊}$ 45'39 | 0.29004 AU |
| superior conj       | -3057 Sep 26 j 04:11 | 8° $\text{♋}$ 43'17  | 1°08'13    | morning rise        | -3054 Feb 27 j 04:36 | 8° $\text{♋}$ 13'50  |            |
| minimum elong       | -3057 Sep 26 j 14:40 | 9° $\text{♋}$ 16'23  | 1°07'57    | direct              | -3054 Mar 16 j 21:01 | 2° $\text{♋}$ 16'36  |            |
| max. Earth dist.    | -3057 Sep 26 j 12:38 | 9° $\text{♋}$ 09'56  | 1.70944 AU | greatest brilliancy | -3054 Mar 26 j 06:00 | 3° $\text{♋}$ 52'46  | -4.7m      |
|                     | -3057 Oct 13 j 01:07 | 0° $\text{♌}$        |            | desc. node          | -3054 Apr 15 j 16:35 | 15° $\text{♋}$ 36'25 |            |
| desc. node          | -3057 Oct 29 j 21:54 | 21° $\text{♌}$ 13'26 |            |                     | -3054 May 02 j 11:26 | 0° $\text{♌}$        |            |
|                     | -3057 Nov 05 j 21:34 | 0° $\text{♍}$        |            | morning max el      | -3054 May 04 j 14:47 | 2° $\text{♌}$ 01'15  | 45°47'40   |
| evening rise        | -3057 Nov 07 j 01:52 | 1° $\text{♍}$ 28'50  |            |                     | -3054 May 31 j 21:00 | 0° $\text{♍}$        |            |
|                     | -3057 Nov 29 j 20:39 | 0° $\text{♎}$        |            |                     | -3054 Jun 27 j 14:36 | 0° $\text{♎}$        |            |
|                     | -3057 Dec 23 j 23:17 | 0° $\text{♏}$        |            |                     | -3054 Jul 23 j 01:55 | 0° $\text{♏}$        |            |
|                     | -3056 Jan 17 j 07:22 | 0° $\text{♐}$        |            | asc. node           | -3054 Aug 06 j 15:59 | 17° $\text{♏}$ 38'33 |            |
|                     | -3056 Feb 11 j 00:22 | 0° $\text{♑}$        |            |                     | -3054 Aug 16 j 18:07 | 0° $\text{♐}$        |            |
| asc. node           | -3056 Feb 19 j 19:49 | 10° $\text{♑}$ 32'24 |            |                     | -3054 Sep 09 j 21:53 | 0° $\text{♑}$        |            |
|                     | -3056 Mar 07 j 07:53 | 0° $\text{♒}$        |            |                     | -3054 Oct 03 j 18:52 | 0° $\text{♒}$        |            |
|                     | -3056 Apr 02 j 15:50 | 0° $\text{♓}$        |            |                     | -3054 Oct 27 j 13:45 | 0° $\text{♓}$        |            |
|                     | -3056 May 01 j 01:33 | 0° $\text{♈}$        |            | morning set         | -3054 Nov 01 j 01:24 | 5° $\text{♓}$ 39'17  |            |
| evening max el      | -3056 May 06 j 23:43 | 5° $\text{♈}$ 45'16  | 45°18'59   |                     | -3054 Nov 20 j 09:41 | 0° $\text{♈}$        |            |
|                     | -3056 Jun 06 j 21:55 | 0° $\text{♉}$        |            | desc. node          | -3054 Nov 26 j 09:51 | 7° $\text{♈}$ 32'37  |            |
| desc. node          | -3056 Jun 10 j 13:52 | 1° $\text{♉}$ 49'24  |            |                     |                      |                      |            |
| greatest brilliancy | -3056 Jun 14 j 11:31 | 3° $\text{♉}$ 22'51  | -4.7m      | superior conj       | -3054 Dec 13 j 05:57 | 28° $\text{♈}$ 38'16 | -0°38'01   |
| retrograde          | -3056 Jun 24 j 13:39 | 5° $\text{♉}$ 11'21  |            | minimum elong       | -3054 Dec 12 j 20:39 | 28° $\text{♈}$ 09'13 | 0°37'42    |
| evening set         | -3056 Jul 10 j 18:08 | 0° $\text{♊}$ 16'39  |            |                     | -3054 Dec 14 j 08:06 | 0° $\text{♉}$        |            |
|                     | -3056 Jul 11 j 05:57 | 30° $\text{♊}$ 11    |            | max. Earth dist.    | -3054 Dec 18 j 00:19 | 4° $\text{♉}$ 35'38  | 1.71647 AU |
| inferior conj       | -3056 Jul 15 j 16:55 | 27° $\text{♊}$ 20'35 | -7°10'39   |                     | -3053 Jan 07 j 09:27 | 0° $\text{♊}$        |            |
| minimum elong       | -3056 Jul 15 j 07:03 | 27° $\text{♊}$ 35'38 | 7°08'51    | evening rise        | -3053 Jan 23 j 03:26 | 19° $\text{♊}$ 32'50 |            |
| min. Earth dist.    | -3056 Jul 15 j 23:59 | 27° $\text{♊}$ 09'48 | 0.27971 AU |                     | -3053 Jan 31 j 14:09 | 0° $\text{♋}$        |            |
| morning rise        | -3056 Jul 19 j 19:40 | 24° $\text{♊}$ 52'26 |            |                     | -3053 Feb 24 j 23:02 | 0° $\text{♋}$        |            |
| direct              | -3056 Aug 06 j 00:34 | 19° $\text{♊}$ 19'55 |            | asc. node           | -3053 Mar 19 j 08:05 | 27° $\text{♋}$ 18'01 |            |
| greatest brilliancy | -3056 Aug 16 j 22:42 | 21° $\text{♊}$ 31'34 | -4.8m      |                     | -3053 Mar 21 j 13:30 | 0° $\text{♌}$        |            |
|                     | -3056 Aug 31 j 18:20 | 0° $\text{♋}$        |            |                     | -3053 Apr 15 j 11:18 | 0° $\text{♌}$        |            |
| morning max el      | -3056 Sep 25 j 11:19 | 22° $\text{♋}$ 01'44 | 46°45'20   |                     | -3053 May 10 j 19:05 | 0° $\text{♍}$        |            |
| asc. node           | -3056 Oct 01 j 13:17 | 28° $\text{♋}$ 19'21 |            |                     | -3053 Jun 05 j 18:22 | 0° $\text{♍}$        |            |
|                     | -3056 Oct 03 j 03:19 | 0° $\text{♊}$        |            |                     | -3053 Jul 02 j 23:37 | 0° $\text{♊}$        |            |
|                     | -3056 Oct 29 j 20:38 | 0° $\text{♋}$        |            | desc. node          | -3053 Jul 09 j 01:32 | 6° $\text{♊}$ 22'23  |            |
|                     | -3056 Nov 24 j 01:36 | 0° $\text{♌}$        |            | evening max el      | -3053 Jul 19 j 22:25 | 17° $\text{♊}$ 18'31 | 46°33'34   |
|                     | -3056 Dec 18 j 18:10 | 0° $\text{♍}$        |            |                     | -3053 Aug 02 j 17:22 | 0° $\text{♋}$        |            |
|                     | -3055 Jan 12 j 07:26 | 0° $\text{♎}$        |            | greatest brilliancy | -3053 Aug 29 j 22:23 | 17° $\text{♋}$ 16'44 | -4.9m      |
| desc. node          | -3055 Jan 21 j 07:43 | 11° $\text{♎}$ 01'11 |            | retrograde          | -3053 Sep 07 j 20:16 | 18° $\text{♋}$ 46'04 |            |
|                     | -3055 Feb 05 j 20:25 | 0° $\text{♏}$        |            | evening set         | -3053 Sep 24 j 10:49 | 13° $\text{♋}$ 31'24 |            |
|                     | -3055 Mar 02 j 09:36 | 0° $\text{♐}$        |            | inferior conj       | -3053 Sep 28 j 11:58 | 11° $\text{♋}$ 07'09 | -7°04'28   |
|                     | -3055 Mar 26 j 22:31 | 0° $\text{♑}$        |            | minimum elong       | -3053 Sep 28 j 22:35 | 10° $\text{♋}$ 51'04 | 7°02'19    |
| morning set         | -3055 Mar 31 j 17:41 | 5° $\text{♑}$ 52'12  |            | min. Earth dist.    | -3053 Sep 28 j 23:08 | 10° $\text{♋}$ 50'13 | 0.26588 AU |
|                     | -3055 Apr 20 j 10:33 | 0° $\text{♒}$        |            | morning rise        | -3053 Oct 03 j 10:03 | 8° $\text{♋}$ 12'48  |            |
| max. Earth dist.    | -3055 May 04 j 19:38 | 17° $\text{♒}$ 38'27 | 1.73657 AU | direct              | -3053 Oct 18 j 21:08 | 3° $\text{♋}$ 29'16  |            |
|                     |                      |                      |            | greatest brilliancy | -3053 Oct 29 j 13:52 | 5° $\text{♋}$ 39'26  | -4.9m      |
| superior conj       | -3055 May 06 j 21:02 | 20° $\text{♒}$ 10'06 | -0°17'16   | asc. node           | -3053 Oct 30 j 00:39 | 5° $\text{♋}$ 50'03  |            |
| minimum elong       | -3055 May 07 j 00:22 | 20° $\text{♒}$ 20'22 | 0°17'04    |                     | -3053 Dec 01 j 13:43 | 0° $\text{♌}$        |            |
| asc. node           | -3055 May 14 j 06:13 | 29° $\text{♒}$ 14'32 |            | morning max el      | -3053 Dec 08 j 12:42 | 6° $\text{♌}$ 53'41  | 46°47'38   |
|                     | -3055 May 14 j 21:00 | 0° $\text{♓}$        |            |                     | -3053 Dec 30 j 03:12 | 0° $\text{♍}$        |            |
|                     | -3055 Jun 08 j 05:23 | 0° $\text{♈}$        |            |                     | -3052 Jan 25 j 11:24 | 0° $\text{♎}$        |            |
| evening rise        | -3055 Jun 11 j 12:42 | 4° $\text{♈}$ 04'49  |            | desc. node          | -3052 Feb 18 j 19:38 | 28° $\text{♎}$ 30'52 |            |
|                     | -3055 Jul 02 j 11:54 | 0° $\text{♉}$        |            |                     | -3052 Feb 20 j 01:49 | 0° $\text{♏}$        |            |
|                     | -3055 Jul 26 j 17:43 | 0° $\text{♊}$        |            |                     | -3052 Mar 16 j 07:49 | 0° $\text{♐}$        |            |
|                     | -3055 Aug 20 j 00:37 | 0° $\text{♋}$        |            |                     | -3052 Apr 10 j 08:08 | 0° $\text{♑}$        |            |
| desc. node          | -3055 Sep 02 j 23:38 | 17° $\text{♋}$ 10'24 |            |                     | -3052 May 05 j 03:21 | 0° $\text{♒}$        |            |
|                     | -3055 Sep 13 j 10:45 | 0° $\text{♌}$        |            |                     | -3052 May 29 j 17:16 | 0° $\text{♓}$        |            |
|                     | -3055 Oct 08 j 02:49 | 0° $\text{♍}$        |            | morning set         | -3052 Jun 06 j 14:59 | 9° $\text{♓}$ 42'28  |            |
|                     | -3055 Nov 02 j 06:32 | 0° $\text{♎}$        |            | asc. node           | -3052 Jun 10 j 18:15 | 14° $\text{♓}$ 47'57 |            |
|                     | -3055 Nov 28 j 13:17 | 0° $\text{♏}$        |            |                     | -3052 Jun 23 j 01:40 | 0° $\text{♈}$        |            |
| evening max el      | -3055 Dec 13 j 18:02 | 16° $\text{♏}$ 06'30 | 46°43'26   | max. Earth dist.    | -3052 Jul 08 j 17:20 | 19° $\text{♈}$ 25'26 | 1.72412 AU |
| asc. node           | -3055 Dec 24 j 22:01 | 26° $\text{♏}$ 56'15 |            |                     |                      |                      |            |
|                     | -3055 Dec 28 j 07:46 | 0° $\text{♐}$        |            | superior conj       | -3052 Jul 12 j 23:30 | 24° $\text{♈}$ 43'29 | 1°06'11    |
| greatest brilliancy | -3054 Jan 22 j 07:08 | 16° $\text{♐}$ 47'26 | -4.8m      | minimum elong       | -3052 Jul 12 j 14:51 | 24° $\text{♈}$ 16'31 | 1°06'01    |
| retrograde          | -3054 Feb 02 j 02:32 | 18° $\text{♐}$ 58'40 |            |                     | -3052 Jul 17 j 05:04 | 0° $\text{♉}$        |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3052 Aug 10 j 04:57 | 0°♌       |            | morning max el      | -3049 Feb 19 j 20:23 | 20°♌45'59 | 46°10'49   |
| evening rise        | -3052 Aug 19 j 02:18 | 11°♌08'26 |            |                     | -3049 Mar 01 j 02:36 | 0°♌       |            |
|                     | -3052 Sep 03 j 03:27 | 0°♍       |            | desc. node          | -3049 Mar 18 j 07:16 | 18°♌10'12 |            |
|                     | -3052 Sep 27 j 02:37 | 0°♎       |            |                     | -3049 Mar 29 j 01:35 | 0°♍       |            |
| desc. node          | -3052 Sep 30 j 11:47 | 4°♎13'30  |            |                     | -3049 Apr 24 j 11:23 | 0°♎       |            |
|                     | -3052 Oct 21 j 04:02 | 0°♏       |            |                     | -3049 May 20 j 02:04 | 0°♏       |            |
|                     | -3052 Nov 14 j 09:19 | 0°♐       |            |                     | -3049 Jun 14 j 03:28 | 0°♐       |            |
|                     | -3052 Dec 08 j 21:33 | 0°♑       |            |                     | -3049 Jul 08 j 17:54 | 0°♑       |            |
|                     | -3051 Jan 02 j 23:23 | 0°♒       |            | asc. node           | -3049 Jul 09 j 06:14 | 0°♒37'56  |            |
| asc. node           | -3051 Jan 21 j 09:52 | 21°♒16'42 |            |                     | -3049 Aug 01 j 23:12 | 0°♓       |            |
|                     | -3051 Jan 29 j 05:33 | 0°♓       |            | morning set         | -3049 Aug 15 j 19:44 | 17°♓19'41 |            |
| evening max el      | -3051 Feb 22 j 14:52 | 25°♓25'43 | 45°25'14   |                     | -3049 Aug 25 j 21:56 | 0°♌       |            |
|                     | -3051 Feb 27 j 10:33 | 0°♑       |            |                     | -3049 Sep 18 j 17:16 | 0°♍       |            |
| greatest brilliancy | -3051 Apr 01 j 08:47 | 23°♑09'48 | -4.7m      |                     |                      |           |            |
| retrograde          | -3051 Apr 12 j 03:54 | 25°♑15'27 |            | superior conj       | -3049 Sep 23 j 15:55 | 6°♍14'07  | 1°10'22    |
| evening set         | -3051 Apr 27 j 12:42 | 20°♑43'06 |            | minimum elong       | -3049 Sep 24 j 01:59 | 6°♍45'53  | 1°10'08    |
| inferior conj       | -3051 May 03 j 14:24 | 17°♑05'07 | 2°11'05    | max. Earth dist.    | -3049 Sep 23 j 16:14 | 6°♍15'10  | 1.70959 AU |
| minimum elong       | -3051 May 03 j 19:01 | 16°♑57'55 | 2°09'49    |                     | -3049 Oct 12 j 12:12 | 0°♎       |            |
| min. Earth dist.    | -3051 May 04 j 04:45 | 16°♑42'44 | 0.29039 AU | desc. node          | -3049 Oct 28 j 23:54 | 20°♎44'42 |            |
| morning rise        | -3051 May 10 j 00:54 | 13°♑13'43 |            | evening rise        | -3049 Nov 04 j 10:47 | 28°♎51'04 |            |
| desc. node          | -3051 May 13 j 04:10 | 11°♑38'02 |            |                     | -3049 Nov 05 j 08:45 | 0°♏       |            |
| direct              | -3051 May 25 j 08:55 | 8°♑43'05  |            |                     | -3049 Nov 29 j 07:55 | 0°♐       |            |
| greatest brilliancy | -3051 Jun 05 j 06:35 | 10°♑50'40 | -4.7m      |                     | -3049 Dec 23 j 10:41 | 0°♑       |            |
|                     | -3051 Jul 03 j 19:47 | 0°♒       |            |                     | -3048 Jan 16 j 19:01 | 0°♒       |            |
| morning max el      | -3051 Jul 13 j 16:10 | 9°♒08'43  | 46°06'58   |                     | -3048 Feb 10 j 12:30 | 0°♓       |            |
|                     | -3051 Aug 02 j 20:42 | 0°♓       |            | asc. node           | -3048 Feb 18 j 21:59 | 10°♓01'58 |            |
|                     | -3051 Aug 29 j 08:06 | 0°♓       |            |                     | -3048 Mar 06 j 21:02 | 0°♑       |            |
| asc. node           | -3051 Sep 03 j 03:50 | 5°♓40'57  |            |                     | -3048 Apr 02 j 07:10 | 0°♒       |            |
|                     | -3051 Sep 23 j 08:57 | 0°♌       |            |                     | -3048 Apr 30 j 22:51 | 0°♓       |            |
|                     | -3051 Oct 17 j 16:57 | 0°♍       |            | evening max el      | -3048 May 04 j 14:07 | 3°♓30'14  | 45°17'31   |
|                     | -3051 Nov 10 j 17:59 | 0°♎       |            |                     | -3048 Jun 09 j 04:21 | 0°♓       |            |
|                     | -3051 Dec 04 j 17:58 | 0°♏       |            | desc. node          | -3048 Jun 09 j 15:58 | 0°♓12'10  |            |
| desc. node          | -3051 Dec 23 j 21:56 | 23°♏53'32 |            | greatest brilliancy | -3048 Jun 12 j 01:05 | 1°♓06'17  | -4.7m      |
|                     | -3051 Dec 28 j 19:44 | 0°♐       |            | retrograde          | -3048 Jun 22 j 02:55 | 2°♓54'45  |            |
| morning set         | -3050 Jan 17 j 05:49 | 24°♐06'23 |            |                     | -3048 Jul 04 j 10:38 | 30°♒♓     |            |
|                     | -3050 Jan 21 j 23:58 | 0°♑       |            | evening set         | -3048 Jul 08 j 04:51 | 28°♓04'47 |            |
|                     | -3050 Feb 15 j 06:26 | 0°♒       |            | inferior conj       | -3048 Jul 13 j 07:13 | 25°♓03'37 | -6°57'25   |
|                     |                      |           |            | minimum elong       | -3048 Jul 12 j 21:08 | 25°♓19'01 | 6°55'29    |
| superior conj       | -3050 Feb 25 j 13:07 | 12°♒40'33 | -1°22'27   | min. Earth dist.    | -3048 Jul 13 j 14:37 | 24°♓52'19 | 0.28012 AU |
| minimum elong       | -3050 Feb 25 j 16:49 | 12°♒51'56 | 1°22'30    | morning rise        | -3048 Jul 17 j 13:03 | 22°♓30'40 |            |
| max. Earth dist.    | -3050 Feb 27 j 13:29 | 15°♒09'33 | 1.73229 AU | direct              | -3048 Aug 03 j 15:03 | 17°♓02'05 |            |
|                     | -3050 Mar 11 j 14:52 | 0°♓       |            | greatest brilliancy | -3048 Aug 14 j 14:02 | 19°♓13'44 | -4.8m      |
| evening rise        | -3050 Apr 03 j 21:02 | 28°♓33'39 |            |                     | -3048 Sep 01 j 11:02 | 0°♓       |            |
|                     | -3050 Apr 05 j 01:12 | 0°♑       |            | morning max el      | -3048 Sep 23 j 00:10 | 19°♓35'55 | 46°44'31   |
| asc. node           | -3050 Apr 15 j 20:08 | 13°♑12'55 |            | asc. node           | -3048 Sep 30 j 15:15 | 27°♓31'17 |            |
|                     | -3050 Apr 29 j 13:25 | 0°♒       |            |                     | -3048 Oct 02 j 22:55 | 0°♌       |            |
|                     | -3050 May 24 j 03:39 | 0°♓       |            |                     | -3048 Oct 29 j 11:57 | 0°♍       |            |
|                     | -3050 Jun 17 j 20:38 | 0°♓       |            |                     | -3048 Nov 23 j 15:09 | 0°♎       |            |
|                     | -3050 Jul 12 j 18:22 | 0°♌       |            |                     | -3048 Dec 18 j 06:46 | 0°♏       |            |
| desc. node          | -3050 Aug 05 j 13:34 | 28°♌16'35 |            |                     | -3047 Jan 11 j 19:24 | 0°♐       |            |
|                     | -3050 Aug 07 j 00:46 | 0°♍       |            | desc. node          | -3047 Jan 20 j 09:54 | 10°♐31'43 |            |
|                     | -3050 Sep 02 j 00:03 | 0°♎       |            |                     | -3047 Feb 05 j 07:58 | 0°♑       |            |
|                     | -3050 Sep 29 j 15:26 | 0°♏       |            |                     | -3047 Mar 01 j 20:49 | 0°♒       |            |
| evening max el      | -3050 Oct 01 j 05:34 | 1°♏37'10  | 47°33'17   |                     | -3047 Mar 26 j 09:31 | 0°♓       |            |
|                     | -3050 Nov 03 j 22:35 | 0°♐       |            | morning set         | -3047 Mar 29 j 11:31 | 3°♓46'23  |            |
| greatest brilliancy | -3050 Nov 10 j 21:22 | 3°♐20'26  | -4.9m      |                     | -3047 Apr 19 j 21:25 | 0°♑       |            |
| retrograde          | -3050 Nov 21 j 07:01 | 5°♐25'18  |            | max. Earth dist.    | -3047 May 02 j 15:45 | 15°♑39'37 | 1.73672 AU |
| asc. node           | -3050 Nov 26 j 12:20 | 4°♐50'41  |            |                     |                      |           |            |
| evening set         | -3050 Dec 05 j 23:38 | 1°♐01'06  |            | superior conj       | -3047 May 04 j 15:51 | 18°♑07'17 | -0°20'14   |
|                     | -3050 Dec 07 j 18:09 | 30°♒♏     |            | minimum elong       | -3047 May 04 j 19:45 | 18°♑19'15 | 0°20'01    |
| min. Earth dist.    | -3050 Dec 10 j 23:28 | 28°♏01'52 | 0.26987 AU | asc. node           | -3047 May 13 j 08:17 | 28°♑47'34 |            |
| inferior conj       | -3050 Dec 11 j 23:56 | 27°♏23'43 | 3°47'07    |                     | -3047 May 14 j 07:50 | 0°♒       |            |
| minimum elong       | -3050 Dec 11 j 16:23 | 27°♏35'30 | 3°44'54    |                     | -3047 Jun 07 j 16:19 | 0°♓       |            |
| morning rise        | -3050 Dec 17 j 10:03 | 24°♏08'35 |            | evening rise        | -3047 Jun 09 j 07:50 | 2°♓01'54  |            |
| direct              | -3049 Jan 01 j 10:53 | 19°♏38'14 |            |                     | -3047 Jul 01 j 23:04 | 0°♓       |            |
| greatest brilliancy | -3049 Jan 10 j 10:21 | 21°♏10'27 | -4.8m      |                     | -3047 Jul 26 j 05:13 | 0°♌       |            |
|                     | -3049 Jan 26 j 18:00 | 0°♐       |            |                     | -3047 Aug 19 j 12:35 | 0°♍       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                               |            |                     |                      |                                |            |  |
|---------------------|----------------------|-------------------------------|------------|---------------------|----------------------|--------------------------------|------------|--|
| desc. node          | -3047 Sep 02 j 01:40 | 16° $\cap$ 39'06              |            |                     | -3044 May 04 j 14:35 | 0° $\Upsilon$                  |            |  |
|                     | -3047 Sep 12 j 23:16 | 0° $\underline{\Omega}$       |            |                     | -3044 May 29 j 04:19 | 0° $\mathcal{B}$               |            |  |
|                     | -3047 Oct 07 j 16:09 | 0° $\cap$                     |            | morning set         | -3044 Jun 04 j 09:36 | 7° $\mathcal{B}$ 38'12         |            |  |
|                     | -3047 Nov 01 j 21:14 | 0° $\mathcal{A}$              |            | asc. node           | -3044 Jun 09 j 20:25 | 14° $\mathcal{B}$ 20'41        |            |  |
|                     | -3047 Nov 28 j 07:10 | 0° $\mathcal{Z}$              |            |                     | -3044 Jun 22 j 12:40 | 0° $\Pi$                       |            |  |
| evening max el      | -3047 Dec 11 j 08:10 | 13° $\mathcal{Z}$ 45'52       | 46°46'19   | max. Earth dist.    | -3044 Jul 06 j 11:26 | 17° $\Pi$ 18'09                | 1.72471 AU |  |
| asc. node           | -3047 Dec 24 j 00:11 | 25° $\mathcal{Z}$ 59'10       |            |                     |                      |                                |            |  |
|                     | -3047 Dec 28 j 13:59 | 0° $\approx$                  |            | superior conj       | -3044 Jul 10 j 16:54 | 22° $\Pi$ 33'47                | 1°04'08    |  |
| greatest brilliancy | -3046 Jan 20 j 00:29 | 14° $\approx$ 36'31           | -4.8m      | minimum elong       | -3044 Jul 10 j 08:09 | 22° $\Pi$ 06'35                | 1°03'58    |  |
| retrograde          | -3046 Jan 30 j 19:02 | 16° $\approx$ 47'39           |            |                     | -3044 Jul 16 j 16:07 | 0° $\mathcal{E}$               |            |  |
| evening set         | -3046 Feb 17 j 15:26 | 10° $\approx$ 37'27           |            |                     | -3044 Aug 09 j 16:08 | 0° $\Omega$                    |            |  |
| inferior conj       | -3046 Feb 21 j 03:12 | 8° $\approx$ 24'52            | 8°17'45    | evening rise        | -3044 Aug 16 j 16:44 | 8° $\Omega$ 48'03              |            |  |
| minimum elong       | -3046 Feb 21 j 05:18 | 8° $\approx$ 21'29            | 8°17'37    |                     | -3044 Sep 02 j 14:50 | 0° $\cap$                      |            |  |
| min. Earth dist.    | -3046 Feb 20 j 20:08 | 8° $\approx$ 36'11            | 0.28965 AU |                     | -3044 Sep 26 j 14:14 | 0° $\underline{\Omega}$        |            |  |
| morning rise        | -3046 Feb 24 j 19:22 | 6° $\approx$ 05'45            |            | desc. node          | -3044 Sep 29 j 13:46 | 3° $\underline{\Omega}$ 43'20  |            |  |
| direct              | -3046 Mar 14 j 12:29 | 0° $\approx$ 06'12            |            |                     | -3044 Oct 20 j 15:57 | 0° $\cap$                      |            |  |
| greatest brilliancy | -3046 Mar 23 j 21:21 | 1° $\approx$ 42'01            | -4.7m      |                     | -3044 Nov 13 j 21:37 | 0° $\mathcal{A}$               |            |  |
| desc. node          | -3046 Apr 14 j 18:37 | 14° $\approx$ 32'07           |            |                     | -3044 Dec 08 j 10:23 | 0° $\mathcal{Z}$               |            |  |
|                     | -3046 May 02 j 10:28 | 0° $\mathcal{H}$              |            |                     | -3043 Jan 02 j 13:16 | 0° $\approx$                   |            |  |
| morning max el      | -3046 May 02 j 06:03 | 29° $\approx$ 49'27           | 45°47'46   | asc. node           | -3043 Jan 20 j 12:02 | 20° $\approx$ 39'35            |            |  |
|                     | -3046 May 31 j 12:58 | 0° $\Upsilon$                 |            |                     | -3043 Jan 28 j 21:54 | 0° $\mathcal{H}$               |            |  |
|                     | -3046 Jun 27 j 04:07 | 0° $\mathcal{B}$              |            | evening max el      | -3043 Feb 20 j 07:31 | 23° $\mathcal{H}$ 16'31        | 45°27'13   |  |
|                     | -3046 Jul 22 j 14:18 | 0° $\Pi$                      |            |                     | -3043 Feb 27 j 11:20 | 0° $\Upsilon$                  |            |  |
| asc. node           | -3046 Aug 05 j 18:08 | 17° $\Pi$ 08'24               |            | greatest brilliancy | -3043 Mar 30 j 00:59 | 21° $\Upsilon$ 02'05           | -4.7m      |  |
|                     | -3046 Aug 16 j 05:57 | 0° $\mathcal{E}$              |            | retrograde          | -3043 Apr 09 j 20:53 | 23° $\Upsilon$ 08'05           |            |  |
|                     | -3046 Sep 09 j 09:27 | 0° $\Omega$                   |            | evening set         | -3043 Apr 25 j 07:08 | 18° $\Upsilon$ 33'11           |            |  |
|                     | -3046 Oct 03 j 06:18 | 0° $\cap$                     |            | inferior conj       | -3043 May 01 j 07:05 | 14° $\Upsilon$ 57'02           | 2°29'25    |  |
|                     | -3046 Oct 27 j 01:07 | 0° $\underline{\Omega}$       |            | minimum elong       | -3043 May 01 j 12:17 | 14° $\Upsilon$ 48'55           | 2°28'01    |  |
| morning set         | -3046 Oct 29 j 11:32 | 3° $\underline{\Omega}$ 04'08 |            | min. Earth dist.    | -3043 May 07 j 21:03 | 14° $\Upsilon$ 35'13           | 0.29064 AU |  |
|                     | -3046 Nov 19 j 20:58 | 0° $\cap$                     |            | morning rise        | -3043 May 07 j 17:08 | 11° $\Upsilon$ 06'10           |            |  |
| desc. node          | -3046 Nov 25 j 12:00 | 7° $\cap$ 03'59               |            | desc. node          | -3043 May 12 j 06:20 | 8° $\Upsilon$ 53'05            |            |  |
|                     |                      |                               |            | direct              | -3043 May 23 j 02:16 | 6° $\Upsilon$ 34'44            |            |  |
| superior conj       | -3046 Dec 10 j 15:44 | 26° $\cap$ 03'42              | -0°34'28   | greatest brilliancy | -3043 Jun 02 j 21:56 | 8° $\Upsilon$ 40'47            | -4.7m      |  |
| minimum elong       | -3046 Dec 10 j 07:05 | 25° $\cap$ 36'41              | 0°34'10    |                     | -3043 Jul 03 j 22:22 | 0° $\mathcal{B}$               |            |  |
|                     | -3046 Dec 13 j 19:18 | 0° $\mathcal{A}$              |            | morning max el      | -3043 Jul 11 j 08:57 | 6° $\mathcal{B}$ 59'03         | 46°05'36   |  |
| max. Earth dist.    | -3046 Dec 15 j 07:09 | 1° $\mathcal{A}$ 52'02        | 1.71589 AU |                     | -3043 Aug 02 j 13:41 | 0° $\Pi$                       |            |  |
|                     | -3045 Jan 06 j 20:36 | 0° $\mathcal{Z}$              |            |                     | -3043 Aug 28 j 22:16 | 0° $\mathcal{E}$               |            |  |
| evening rise        | -3045 Jan 20 j 16:24 | 17° $\mathcal{Z}$ 09'50       |            | asc. node           | -3043 Sep 02 j 05:49 | 5° $\mathcal{E}$ 05'47         |            |  |
|                     | -3045 Jan 31 j 01:17 | 0° $\approx$                  |            |                     | -3043 Sep 22 j 21:53 | 0° $\Omega$                    |            |  |
|                     | -3045 Feb 24 j 10:17 | 0° $\mathcal{H}$              |            |                     | -3043 Oct 17 j 05:14 | 0° $\cap$                      |            |  |
| asc. node           | -3045 Mar 18 j 10:03 | 26° $\mathcal{H}$ 49'11       |            |                     | -3043 Nov 10 j 05:54 | 0° $\underline{\Omega}$        |            |  |
|                     | -3045 Mar 21 j 01:01 | 0° $\Upsilon$                 |            |                     | -3043 Dec 04 j 05:39 | 0° $\cap$                      |            |  |
|                     | -3045 Apr 14 j 23:21 | 0° $\mathcal{B}$              |            | desc. node          | -3043 Dec 23 j 00:03 | 23° $\cap$ 24'13               |            |  |
|                     | -3045 May 10 j 08:08 | 0° $\Pi$                      |            |                     | -3043 Dec 28 j 07:13 | 0° $\mathcal{A}$               |            |  |
|                     | -3045 Jun 05 j 09:18 | 0° $\mathcal{E}$              |            | morning set         | -3042 Jan 14 j 17:36 | 21° $\mathcal{A}$ 39'03        |            |  |
|                     | -3045 Jul 02 j 18:41 | 0° $\Omega$                   |            |                     | -3042 Jan 21 j 11:17 | 0° $\mathcal{Z}$               |            |  |
| desc. node          | -3045 Jul 08 j 03:45 | 5° $\Omega$ 35'17             |            |                     | -3042 Feb 14 j 17:34 | 0° $\approx$                   |            |  |
| evening max el      | -3045 Jul 17 j 10:50 | 14° $\Omega$ 53'24            | 46°30'31   |                     |                      |                                |            |  |
|                     | -3045 Aug 03 j 03:37 | 0° $\cap$                     |            | superior conj       | -3042 Feb 23 j 04:42 | 10° $\approx$ 26'27            | -1°23'03   |  |
| greatest brilliancy | -3045 Aug 27 j 09:57 | 14° $\cap$ 47'06              | -4.9m      | minimum elong       | -3042 Feb 23 j 07:42 | 10° $\approx$ 35'40            | 1°23'06    |  |
| retrograde          | -3045 Sep 05 j 08:23 | 16° $\cap$ 16'46              |            | max. Earth dist.    | -3042 Feb 25 j 09:59 | 13° $\approx$ 10'39            | 1.73183 AU |  |
| evening set         | -3045 Sep 22 j 02:05 | 10° $\cap$ 56'48              |            |                     | -3042 Mar 11 j 01:54 | 0° $\mathcal{H}$               |            |  |
| inferior conj       | -3045 Sep 25 j 23:57 | 8° $\cap$ 37'28               | -7°18'52   | evening rise        | -3042 Apr 01 j 15:01 | 26° $\mathcal{H}$ 27'50        |            |  |
| minimum elong       | -3045 Sep 26 j 10:20 | 8° $\cap$ 21'46               | 7°16'53    |                     | -3042 Apr 04 j 12:14 | 0° $\Upsilon$                  |            |  |
| min. Earth dist.    | -3045 Sep 26 j 11:36 | 8° $\cap$ 19'51               | 0.26631 AU | asc. node           | -3042 Apr 14 j 22:16 | 12° $\Upsilon$ 45'35           |            |  |
| morning rise        | -3045 Sep 30 j 18:19 | 5° $\cap$ 48'40               |            |                     | -3042 Apr 29 j 00:37 | 0° $\mathcal{B}$               |            |  |
| direct              | -3045 Oct 16 j 09:50 | 0° $\cap$ 58'47               |            |                     | -3042 May 23 j 15:11 | 0° $\Pi$                       |            |  |
| greatest brilliancy | -3045 Oct 27 j 03:16 | 3° $\cap$ 10'00               | -4.9m      |                     | -3042 Jun 17 j 08:43 | 0° $\mathcal{E}$               |            |  |
| asc. node           | -3045 Oct 29 j 02:48 | 3° $\cap$ 59'47               |            |                     | -3042 Jul 12 j 07:17 | 0° $\Omega$                    |            |  |
|                     | -3045 Dec 01 j 15:40 | 0° $\underline{\Omega}$       |            | desc. node          | -3042 Aug 04 j 15:34 | 27° $\Omega$ 40'48             |            |  |
| morning max el      | -3045 Dec 06 j 03:06 | 4° $\underline{\Omega}$ 29'00 | 46°48'37   |                     | -3042 Aug 06 j 15:03 | 0° $\cap$                      |            |  |
|                     | -3045 Dec 29 j 20:43 | 0° $\cap$                     |            |                     | -3042 Sep 01 j 16:51 | 0° $\underline{\Omega}$        |            |  |
|                     | -3044 Jan 25 j 01:58 | 0° $\mathcal{A}$              |            | evening max el      | -3042 Sep 28 j 20:54 | 29° $\underline{\Omega}$ 15'30 | 47°32'51   |  |
| desc. node          | -3044 Feb 17 j 21:42 | 27° $\mathcal{A}$ 58'14       |            |                     | -3042 Sep 29 j 14:30 | 0° $\cap$                      |            |  |
|                     | -3044 Feb 19 j 14:51 | 0° $\mathcal{Z}$              |            |                     | -3042 Nov 06 j 07:26 | 0° $\mathcal{A}$               |            |  |
|                     | -3044 Mar 15 j 19:57 | 0° $\approx$                  |            | greatest brilliancy | -3042 Nov 08 j 12:23 | 0° $\mathcal{A}$ 54'35         | -4.9m      |  |
|                     | -3044 Apr 09 j 19:42 | 0° $\mathcal{H}$              |            | retrograde          | -3042 Nov 18 j 21:02 | 2° $\mathcal{A}$ 57'53         |            |  |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| asc. node           | -3042 Nov 25 j 14:31 | 2°♊00'39  |            | superior conj       | -3039 May 02 j 10:39 | 16°♊04'17 | -0°23'12   |
|                     | -3042 Nov 30 j 19:42 | 30°♋♌     |            | minimum elong       | -3039 May 02 j 15:06 | 16°♊17'55 | 0°22'58    |
| evening set         | -3042 Dec 03 j 11:52 | 28°♌36'46 |            | asc. node           | -3039 May 12 j 10:29 | 28°♊20'54 |            |
| min. Earth dist.    | -3042 Dec 08 j 13:36 | 25°♌34'46 | 0.26920 AU |                     | -3039 May 13 j 18:43 | 0°♋       |            |
| inferior conj       | -3042 Dec 09 j 13:20 | 24°♌57'43 | 3°26'29    | evening rise        | -3039 Jun 07 j 03:11 | 29°♋59'44 |            |
| minimum elong       | -3042 Dec 09 j 06:21 | 25°♌08'38 | 3°24'23    |                     | -3039 Jun 07 j 03:16 | 0°♌       |            |
| morning rise        | -3042 Dec 15 j 01:46 | 21°♌39'27 |            |                     | -3039 Jul 01 j 10:12 | 0°♍       |            |
| direct              | -3042 Dec 30 j 00:04 | 17°♌13'36 |            |                     | -3039 Jul 25 j 16:40 | 0°♎       |            |
| greatest brilliancy | -3041 Jan 08 j 00:00 | 18°♌46'11 | -4.8m      |                     | -3039 Aug 19 j 00:29 | 0°♏       |            |
|                     | -3041 Jan 27 j 12:42 | 0°♊       |            | desc. node          | -3039 Sep 01 j 03:43 | 16°♏08'01 |            |
| morning max el      | -3041 Feb 17 j 09:51 | 18°♊25'07 | 46°12'07   |                     | -3039 Sep 12 j 11:47 | 0°♐       |            |
|                     | -3041 Feb 28 j 22:36 | 0°♋       |            |                     | -3039 Oct 07 j 05:33 | 0°♑       |            |
| desc. node          | -3041 Mar 17 j 09:15 | 17°♋30'20 |            |                     | -3039 Nov 01 j 12:11 | 0°♒       |            |
|                     | -3041 Mar 28 j 16:49 | 0°♌       |            |                     | -3039 Nov 28 j 01:35 | 0°♓       |            |
|                     | -3041 Apr 24 j 00:36 | 0°♍       |            | evening max el      | -3039 Dec 08 j 22:34 | 11°♓25'26 | 46°49'16   |
|                     | -3041 May 19 j 14:14 | 0°♎       |            | asc. node           | -3039 Dec 23 j 02:18 | 25°♓00'10 |            |
|                     | -3041 Jun 13 j 15:03 | 0°♏       |            |                     | -3039 Dec 28 j 22:55 | 0°♔       |            |
| asc. node           | -3041 Jul 08 j 08:21 | 0°♐09'47  |            | greatest brilliancy | -3038 Jan 17 j 17:11 | 12°♔23'53 | -4.8m      |
|                     | -3041 Jul 08 j 05:10 | 0°♑       |            | retrograde          | -3038 Jan 28 j 11:45 | 14°♔35'37 |            |
|                     | -3041 Aug 01 j 10:21 | 0°♒       |            | evening set         | -3038 Feb 15 j 08:05 | 8°♔24'51  |            |
| morning set         | -3041 Aug 13 j 10:31 | 15°♒00'41 |            | inferior conj       | -3038 Feb 18 j 19:37 | 6°♔12'48  | 8°20'07    |
|                     | -3041 Aug 25 j 09:05 | 0°♓       |            | minimum elong       | -3038 Feb 18 j 21:01 | 6°♔10'34  | 8°20'00    |
|                     | -3041 Sep 18 j 04:29 | 0°♔       |            | min. Earth dist.    | -3038 Feb 18 j 11:26 | 6°♔25'55  | 0.28924 AU |
| max. Earth dist.    | -3041 Sep 20 j 17:58 | 3°♔13'52  | 1.70983 AU | morning rise        | -3038 Feb 22 j 10:08 | 3°♔56'23  |            |
|                     |                      |           |            |                     | -3038 Mar 01 j 22:57 | 30°♋♓     |            |
| superior conj       | -3041 Sep 21 j 03:41 | 3°♔44'31  | 1°12'22    | direct              | -3038 Mar 12 j 03:39 | 27°♓54'42 |            |
| minimum elong       | -3041 Sep 21 j 13:17 | 4°♔14'45  | 1°12'11    | greatest brilliancy | -3038 Mar 21 j 12:15 | 29°♓30'18 | -4.7m      |
|                     | -3041 Oct 11 j 23:30 | 0°♕       |            |                     | -3038 Mar 22 j 22:23 | 0°♔       |            |
| desc. node          | -3041 Oct 28 j 02:03 | 20°♕15'50 |            | desc. node          | -3038 Apr 13 j 20:52 | 13°♔29'36 |            |
| evening rise        | -3041 Nov 01 j 19:22 | 26°♕11'42 |            | morning max el      | -3038 Apr 29 j 21:58 | 27°♔39'15 | 45°47'59   |
|                     | -3041 Nov 04 j 20:07 | 0°♌       |            |                     | -3038 May 02 j 08:36 | 0°♍       |            |
|                     | -3041 Nov 28 j 19:22 | 0°♊       |            |                     | -3038 May 31 j 04:36 | 0°♎       |            |
|                     | -3041 Dec 22 j 22:16 | 0°♋       |            |                     | -3038 Jun 26 j 17:27 | 0°♏       |            |
|                     | -3040 Jan 16 j 06:51 | 0°♌       |            |                     | -3038 Jul 22 j 02:31 | 0°♐       |            |
|                     | -3040 Feb 10 j 00:52 | 0°♍       |            | asc. node           | -3038 Aug 04 j 20:09 | 16°♐38'20 |            |
| asc. node           | -3040 Feb 17 j 23:58 | 9°♍30'25  |            |                     | -3038 Aug 15 j 17:35 | 0°♑       |            |
|                     | -3040 Mar 06 j 10:27 | 0°♎       |            |                     | -3038 Sep 08 j 20:48 | 0°♒       |            |
|                     | -3040 Apr 01 j 22:52 | 0°♏       |            |                     | -3038 Oct 02 j 17:32 | 0°♓       |            |
|                     | -3040 Apr 30 j 21:01 | 0°♐       |            | morning set         | -3038 Oct 26 j 21:56 | 0°♓30'23  |            |
| evening max el      | -3040 May 02 j 04:09 | 1°♐14'23  | 45°16'21   |                     | -3038 Oct 26 j 12:18 | 0°♔       |            |
| desc. node          | -3040 Jun 08 j 18:07 | 28°♐31'51 |            |                     | -3038 Nov 19 j 08:06 | 0°♕       |            |
| greatest brilliancy | -3040 Jun 09 j 14:33 | 28°♐50'10 | -4.7m      | desc. node          | -3038 Nov 24 j 14:09 | 6°♕35'45  |            |
|                     | -3040 Jun 13 j 17:35 | 0°♑       |            |                     |                      |           |            |
| retrograde          | -3040 Jun 19 j 16:35 | 0°♑39'17  |            | superior conj       | -3038 Dec 08 j 01:04 | 23°♕27'56 | -0°30'49   |
|                     | -3040 Jun 25 j 12:01 | 30°♋♐     |            | minimum elong       | -3038 Dec 07 j 17:10 | 23°♕03'12 | 0°30'31    |
| evening set         | -3040 Jul 05 j 15:54 | 25°♐53'27 |            | max. Earth dist.    | -3038 Dec 12 j 13:11 | 29°♕06'11 | 1.71541 AU |
| inferior conj       | -3040 Jul 10 j 21:47 | 22°♐47'37 | -6°43'41   |                     | -3038 Dec 13 j 06:24 | 0°♊       |            |
| minimum elong       | -3040 Jul 10 j 11:33 | 23°♐03'15 | 6°41'36    |                     | -3037 Jan 06 j 07:41 | 0°♋       |            |
| min. Earth dist.    | -3040 Jul 11 j 05:31 | 22°♐35'47 | 0.28055 AU | evening rise        | -3037 Jan 18 j 04:42 | 14°♋44'56 |            |
| morning rise        | -3040 Jul 15 j 06:43 | 20°♐10'02 |            |                     | -3037 Jan 30 j 12:23 | 0°♌       |            |
| direct              | -3040 Aug 01 j 05:33 | 14°♐45'03 |            |                     | -3037 Feb 23 j 21:28 | 0°♍       |            |
| greatest brilliancy | -3040 Aug 12 j 06:01 | 16°♐57'28 | -4.8m      | asc. node           | -3037 Mar 17 j 12:13 | 26°♍21'12 |            |
|                     | -3040 Sep 01 j 23:25 | 0°♑       |            |                     | -3037 Mar 20 j 12:27 | 0°♎       |            |
| morning max el      | -3040 Sep 20 j 13:32 | 17°♑11'32 | 46°43'27   |                     | -3037 Apr 14 j 11:21 | 0°♏       |            |
| asc. node           | -3040 Sep 29 j 17:27 | 26°♑44'26 |            |                     | -3037 May 09 j 21:11 | 0°♐       |            |
|                     | -3040 Oct 02 j 18:03 | 0°♒       |            |                     | -3037 Jun 05 j 00:18 | 0°♑       |            |
|                     | -3040 Oct 29 j 03:13 | 0°♓       |            |                     | -3037 Jul 02 j 14:04 | 0°♒       |            |
|                     | -3040 Nov 23 j 04:46 | 0°♔       |            | desc. node          | -3037 Jul 07 j 05:48 | 4°♒47'36  |            |
|                     | -3040 Dec 17 j 19:28 | 0°♕       |            | evening max el      | -3037 Jul 15 j 00:26 | 12°♒32'06 | 46°27'35   |
|                     | -3039 Jan 11 j 07:28 | 0°♊       |            |                     | -3037 Aug 03 j 16:46 | 0°♓       |            |
| desc. node          | -3039 Jan 19 j 11:57 | 10°♊01'35 |            | greatest brilliancy | -3037 Aug 24 j 21:13 | 12°♓18'45 | -4.9m      |
|                     | -3039 Feb 04 j 19:34 | 0°♋       |            | retrograde          | -3037 Sep 02 j 20:54 | 13°♓49'00 |            |
|                     | -3039 Mar 01 j 08:05 | 0°♌       |            | evening set         | -3037 Sep 19 j 17:31 | 8°♓24'03  |            |
|                     | -3039 Mar 25 j 20:34 | 0°♍       |            | inferior conj       | -3037 Sep 23 j 12:06 | 6°♓09'27  | -7°32'20   |
| morning set         | -3039 Mar 27 j 05:01 | 1°♍39'20  |            | minimum elong       | -3037 Sep 23 j 22:10 | 5°♓54'14  | 7°30'32    |
|                     | -3039 Apr 19 j 08:20 | 0°♎       |            | min. Earth dist.    | -3037 Sep 23 j 23:50 | 5°♓51'42  | 0.26671 AU |
| max. Earth dist.    | -3039 Apr 30 j 12:08 | 13°♎41'28 | 1.73686 AU | morning rise        | -3037 Sep 28 j 02:36 | 3°♓26'18  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                               |            |                     |                      |                               |            |
|---------------------|----------------------|-------------------------------|------------|---------------------|----------------------|-------------------------------|------------|
|                     | -3037 Oct 05 j 11:19 | 30° $\mathbb{R}$ $\mathbb{Q}$ |            | asc. node           | -3034 Apr 14 j 00:26 | 12° $\mathbb{Y}$ 19'07        |            |
| direct              | -3037 Oct 13 j 23:07 | 28° $\mathbb{Q}$ 30'17        |            |                     | -3034 Apr 28 j 11:33 | 0° $\mathcal{B}$              |            |
|                     | -3037 Oct 22 j 17:51 | 0° $\mathbb{M}$               |            |                     | -3034 May 23 j 02:27 | 0° $\mathbb{I}$               |            |
| greatest brilliancy | -3037 Oct 24 j 16:09 | 0° $\mathbb{M}$ 41'36         | -4.9m      |                     | -3034 Jun 16 j 20:33 | 0° $\mathcal{E}$              |            |
| asc. node           | -3037 Oct 28 j 04:59 | 2° $\mathbb{M}$ 15'20         |            |                     | -3034 Jul 11 j 20:00 | 0° $\mathbb{Q}$               |            |
|                     | -3037 Dec 01 j 15:52 | 0° $\mathcal{A}$              |            | desc. node          | -3034 Aug 03 j 17:37 | 27° $\mathbb{Q}$ 05'47        |            |
| morning max el      | -3037 Dec 03 j 17:42 | 2° $\mathcal{A}$ 05'59        | 46°49'14   |                     | -3034 Aug 06 j 05:13 | 0° $\mathbb{M}$               |            |
|                     | -3037 Dec 29 j 13:35 | 0° $\mathbb{M}$               |            |                     | -3034 Sep 01 j 09:40 | 0° $\mathcal{A}$              |            |
|                     | -3036 Jan 24 j 16:09 | 0° $\mathcal{A}$              |            | evening max el      | -3034 Sep 26 j 11:32 | 26° $\mathcal{A}$ 52'55       | 47°32'20   |
| desc. node          | -3036 Feb 16 j 23:43 | 27° $\mathcal{A}$ 26'03       |            |                     | -3034 Sep 29 j 14:12 | 0° $\mathbb{M}$               |            |
|                     | -3036 Feb 19 j 03:40 | 0° $\mathcal{B}$              |            | greatest brilliancy | -3034 Nov 06 j 04:02 | 28° $\mathbb{M}$ 30'31        | -4.9m      |
|                     | -3036 Mar 15 j 07:54 | 0° $\approx$                  |            |                     | -3034 Nov 11 j 07:01 | 0° $\mathcal{A}$              |            |
|                     | -3036 Apr 09 j 07:05 | 0° $\mathcal{H}$              |            | retrograde          | -3034 Nov 16 j 10:37 | 0° $\mathcal{A}$ 31'41        |            |
|                     | -3036 May 04 j 01:35 | 0° $\mathbb{Y}$               |            |                     | -3034 Nov 21 j 11:14 | 30° $\mathbb{R}$ $\mathbb{M}$ |            |
|                     | -3036 May 28 j 15:08 | 0° $\mathcal{B}$              |            | asc. node           | -3034 Nov 24 j 16:35 | 29° $\mathbb{M}$ 06'16        |            |
| morning set         | -3036 Jun 02 j 03:59 | 5° $\mathcal{B}$ 34'02        |            | evening set         | -3034 Dec 01 j 00:21 | 26° $\mathbb{M}$ 13'21        |            |
| asc. node           | -3036 Jun 08 j 22:28 | 13° $\mathcal{B}$ 53'46       |            | min. Earth dist.    | -3034 Dec 06 j 04:12 | 23° $\mathbb{M}$ 08'27        | 0.26852 AU |
|                     | -3036 Jun 21 j 23:26 | 0° $\mathbb{I}$               |            | inferior conj       | -3034 Dec 07 j 02:49 | 22° $\mathbb{M}$ 33'08        | 3°05'20    |
| max. Earth dist.    | -3036 Jul 04 j 03:43 | 15° $\mathbb{I}$ 06'03        | 1.72529 AU | minimum elong       | -3034 Dec 06 j 20:26 | 22° $\mathbb{M}$ 43'07        | 3°03'22    |
|                     |                      |                               |            | morning rise        | -3034 Dec 12 j 17:24 | 19° $\mathbb{M}$ 11'49        |            |
| superior conj       | -3036 Jul 08 j 10:16 | 20° $\mathbb{I}$ 24'51        | 1°02'00    | direct              | -3034 Dec 27 j 12:43 | 14° $\mathbb{M}$ 50'18        |            |
| minimum elong       | -3036 Jul 08 j 01:30 | 19° $\mathbb{I}$ 57'35        | 1°01'48    | greatest brilliancy | -3033 Jan 05 j 14:13 | 16° $\mathbb{M}$ 23'50        | -4.9m      |
|                     | -3036 Jul 16 j 02:57 | 0° $\mathcal{E}$              |            |                     | -3033 Jan 28 j 01:59 | 0° $\mathcal{A}$              |            |
|                     | -3036 Aug 09 j 03:06 | 0° $\mathbb{Q}$               |            | morning max el      | -3033 Feb 14 j 22:41 | 16° $\mathcal{A}$ 03'56       | 46°13'26   |
| evening rise        | -3036 Aug 14 j 07:24 | 6° $\mathbb{Q}$ 29'09         |            |                     | -3033 Feb 28 j 17:28 | 0° $\mathcal{B}$              |            |
|                     | -3036 Sep 02 j 01:57 | 0° $\mathbb{M}$               |            | desc. node          | -3033 Mar 16 j 11:31 | 16° $\mathcal{B}$ 52'55       |            |
|                     | -3036 Sep 26 j 01:32 | 0° $\mathcal{A}$              |            |                     | -3033 Mar 28 j 07:26 | 0° $\approx$                  |            |
| desc. node          | -3036 Sep 28 j 15:59 | 3° $\mathcal{A}$ 14'54        |            |                     | -3033 Apr 23 j 13:23 | 0° $\mathcal{H}$              |            |
|                     | -3036 Oct 20 j 03:30 | 0° $\mathbb{M}$               |            |                     | -3033 May 19 j 02:05 | 0° $\mathbb{Y}$               |            |
|                     | -3036 Nov 13 j 09:32 | 0° $\mathcal{A}$              |            |                     | -3033 Jun 13 j 02:22 | 0° $\mathcal{B}$              |            |
|                     | -3036 Dec 07 j 22:54 | 0° $\mathcal{B}$              |            | asc. node           | -3033 Jul 07 j 10:24 | 29° $\mathcal{B}$ 42'09       |            |
|                     | -3035 Jan 02 j 02:56 | 0° $\approx$                  |            |                     | -3033 Jul 07 j 16:13 | 0° $\mathbb{I}$               |            |
| asc. node           | -3035 Jan 19 j 14:01 | 20° $\approx$ 02'26           |            |                     | -3033 Jul 31 j 21:15 | 0° $\mathcal{E}$              |            |
|                     | -3035 Jan 28 j 14:16 | 0° $\mathcal{H}$              |            | morning set         | -3033 Aug 11 j 01:13 | 12° $\mathcal{E}$ 42'15       |            |
| evening max el      | -3035 Feb 18 j 00:01 | 21° $\mathcal{H}$ 07'18       | 45°29'02   |                     | -3033 Aug 24 j 19:58 | 0° $\mathbb{Q}$               |            |
|                     | -3035 Feb 27 j 13:15 | 0° $\mathbb{Y}$               |            |                     | -3033 Sep 17 j 15:26 | 0° $\mathbb{M}$               |            |
| greatest brilliancy | -3035 Mar 27 j 17:44 | 18° $\mathbb{Y}$ 55'06        | -4.7m      | max. Earth dist.    | -3033 Sep 17 j 21:32 | 0° $\mathbb{M}$ 19'13         | 1.71011 AU |
| retrograde          | -3035 Apr 07 j 13:17 | 21° $\mathbb{Y}$ 00'37        |            |                     |                      |                               |            |
| evening set         | -3035 Apr 23 j 01:32 | 16° $\mathbb{Y}$ 23'15        |            | superior conj       | -3033 Sep 18 j 15:30 | 1° $\mathbb{M}$ 15'54         | 1°14'13    |
| inferior conj       | -3035 Apr 28 j 23:38 | 12° $\mathbb{Y}$ 49'05        | 2°47'37    | minimum elong       | -3033 Sep 19 j 00:34 | 1° $\mathbb{M}$ 44'26         | 1°14'04    |
| minimum elong       | -3035 Apr 29 j 05:22 | 12° $\mathbb{Y}$ 40'05        | 2°46'06    |                     | -3033 Oct 11 j 10:33 | 0° $\mathcal{A}$              |            |
| min. Earth dist.    | -3035 Apr 29 j 13:27 | 12° $\mathbb{Y}$ 27'26        | 0.29087 AU | desc. node          | -3033 Oct 27 j 04:09 | 19° $\mathcal{A}$ 47'35       |            |
| morning rise        | -3035 May 05 j 08:58 | 8° $\mathbb{Y}$ 58'45         |            | evening rise        | -3033 Oct 30 j 04:04 | 23° $\mathcal{A}$ 33'25       |            |
| desc. node          | -3035 May 11 j 08:25 | 6° $\mathbb{Y}$ 11'55         |            |                     | -3033 Nov 04 j 07:15 | 0° $\mathbb{M}$               |            |
| direct              | -3035 May 20 j 19:16 | 4° $\mathbb{Y}$ 26'37         |            |                     | -3033 Nov 28 j 06:34 | 0° $\mathcal{A}$              |            |
| greatest brilliancy | -3035 May 31 j 13:08 | 6° $\mathbb{Y}$ 30'59         | -4.7m      |                     | -3033 Dec 22 j 09:33 | 0° $\mathcal{B}$              |            |
|                     | -3035 Jul 03 j 23:20 | 0° $\mathcal{B}$              |            |                     | -3032 Jan 15 j 18:22 | 0° $\approx$                  |            |
| morning max el      | -3035 Jul 09 j 00:41 | 4° $\mathcal{B}$ 47'36        | 46°04'17   |                     | -3032 Feb 09 j 12:54 | 0° $\mathcal{H}$              |            |
|                     | -3035 Aug 02 j 06:04 | 0° $\mathbb{I}$               |            | asc. node           | -3032 Feb 17 j 02:10 | 9° $\mathcal{H}$ 00'29        |            |
|                     | -3035 Aug 28 j 12:02 | 0° $\mathcal{E}$              |            |                     | -3032 Mar 05 j 23:35 | 0° $\mathbb{Y}$               |            |
| asc. node           | -3035 Sep 01 j 07:59 | 4° $\mathcal{E}$ 32'08        |            |                     | -3032 Apr 01 j 14:27 | 0° $\mathcal{B}$              |            |
|                     | -3035 Sep 22 j 10:27 | 0° $\mathbb{Q}$               |            | evening max el      | -3032 Apr 29 j 18:15 | 28° $\mathcal{B}$ 59'32       | 45°15'06   |
|                     | -3035 Oct 16 j 17:09 | 0° $\mathbb{M}$               |            |                     | -3032 Apr 30 j 19:48 | 0° $\mathbb{I}$               |            |
|                     | -3035 Nov 09 j 17:26 | 0° $\mathcal{A}$              |            | greatest brilliancy | -3032 Jun 07 j 03:26 | 26° $\mathbb{I}$ 33'55        | -4.7m      |
|                     | -3035 Dec 03 j 16:55 | 0° $\mathbb{M}$               |            | desc. node          | -3032 Jun 07 j 20:11 | 26° $\mathbb{I}$ 48'04        |            |
| desc. node          | -3035 Dec 22 j 02:05 | 22° $\mathbb{M}$ 56'00        |            | retrograde          | -3032 Jun 17 j 06:39 | 28° $\mathbb{I}$ 24'27        |            |
|                     | -3035 Dec 27 j 18:17 | 0° $\mathcal{A}$              |            | evening set         | -3032 Jul 03 j 03:03 | 23° $\mathbb{I}$ 42'14        |            |
| morning set         | -3034 Jan 12 j 05:36 | 19° $\mathcal{A}$ 13'32       |            | inferior conj       | -3032 Jul 08 j 12:18 | 20° $\mathbb{I}$ 32'01        | -6°29'13   |
|                     | -3034 Jan 20 j 22:10 | 0° $\mathcal{B}$              |            | minimum elong       | -3032 Jul 08 j 01:59 | 20° $\mathbb{I}$ 47'44        | 6°27'02    |
|                     | -3034 Feb 14 j 04:20 | 0° $\approx$                  |            | min. Earth dist.    | -3032 Jul 08 j 20:15 | 20° $\mathbb{I}$ 19'53        | 0.28100 AU |
|                     |                      |                               |            | morning rise        | -3032 Jul 13 j 00:25 | 17° $\mathbb{I}$ 49'56        |            |
| superior conj       | -3034 Feb 20 j 20:12 | 8° $\approx$ 13'06            | -1°23'31   | direct              | -3032 Jul 29 j 20:16 | 12° $\mathbb{I}$ 28'20        |            |
| minimum elong       | -3034 Feb 20 j 22:26 | 8° $\approx$ 20'00            | 1°23'35    | greatest brilliancy | -3032 Aug 09 j 22:01 | 14° $\mathbb{I}$ 41'49        | -4.8m      |
| max. Earth dist.    | -3034 Feb 23 j 06:35 | 11° $\approx$ 13'05           | 1.73142 AU |                     | -3032 Sep 02 j 08:26 | 0° $\mathcal{E}$              |            |
|                     | -3034 Mar 10 j 12:36 | 0° $\mathcal{H}$              |            | morning max el      | -3032 Sep 18 j 03:46 | 14° $\mathcal{E}$ 50'03       | 46°42'27   |
| evening rise        | -3034 Mar 30 j 08:40 | 24° $\mathcal{H}$ 21'48       |            | asc. node           | -3032 Sep 28 j 19:40 | 25° $\mathcal{E}$ 58'47       |            |
|                     | -3034 Apr 03 j 23:00 | 0° $\mathbb{Y}$               |            |                     | -3032 Oct 02 j 12:30 | 0° $\mathbb{Q}$               |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|--|
|                     | -3032 Oct 28 j 18:05 | 0°♍       |            |                     |  | -3029 Jun 04 j 15:29 | 0°♍       |            |  |
|                     | -3032 Nov 22 j 18:05 | 0°♌       |            |                     |  | -3029 Jul 02 j 10:03 | 0°♌       |            |  |
|                     | -3032 Dec 17 j 07:53 | 0°♋       |            | desc. node          |  | -3029 Jul 06 j 07:52 | 3°♌59'00  |            |  |
|                     | -3031 Jan 10 j 19:17 | 0°♊       |            | evening max el      |  | -3029 Jul 12 j 14:32 | 10°♌11'57 | 46°24'20   |  |
| desc. node          | -3031 Jan 18 j 14:00 | 9°♊32'07  |            |                     |  | -3029 Aug 04 j 10:29 | 0°♍       |            |  |
|                     | -3031 Feb 04 j 06:56 | 0°♋       |            | greatest brilliancy |  | -3029 Aug 22 j 08:22 | 9°♍49'50  | -4.9m      |  |
|                     | -3031 Feb 28 j 19:07 | 0°♌       |            | retrograde          |  | -3029 Aug 31 j 08:59 | 11°♍20'17 |            |  |
| morning set         | -3031 Mar 24 j 22:49 | 29°♌33'51 |            | evening set         |  | -3029 Sep 17 j 08:48 | 5°♍50'42  |            |  |
|                     | -3031 Mar 25 j 07:22 | 0°♌       |            | inferior conj       |  | -3029 Sep 21 j 00:09 | 3°♍40'35  | -7°44'56   |  |
|                     | -3031 Apr 18 j 19:01 | 0°♍       |            | minimum elong       |  | -3029 Sep 21 j 09:50 | 3°♍25'57  | 7°43'18    |  |
| max. Earth dist.    | -3031 Apr 28 j 10:49 | 11°♍51'06 | 1.73702 AU | min. Earth dist.    |  | -3029 Sep 21 j 12:00 | 3°♍22'40  | 0.26715 AU |  |
|                     |                      |           |            | morning rise        |  | -3029 Sep 25 j 10:41 | 1°♍03'02  |            |  |
| superior conj       | -3031 Apr 30 j 05:43 | 14°♍02'45 | -0°26'06   |                     |  | -3029 Sep 27 j 08:52 | 30°♍02    |            |  |
| minimum elong       | -3031 Apr 30 j 10:40 | 14°♍17'58 | 0°25'51    | direct              |  | -3029 Oct 11 j 12:33 | 26°♌01'01 |            |  |
| asc. node           | -3031 May 11 j 12:31 | 27°♍54'22 |            | greatest brilliancy |  | -3029 Oct 22 j 04:54 | 28°♌11'55 | -4.9m      |  |
|                     | -3031 May 13 j 05:24 | 0°♎       |            |                     |  | -3029 Oct 26 j 05:10 | 0°♍       |            |  |
| evening rise        | -3031 Jun 04 j 22:45 | 27°♎58'49 |            | asc. node           |  | -3029 Oct 27 j 07:01 | 0°♍33'35  |            |  |
|                     | -3031 Jun 06 j 14:04 | 0°♎       |            | morning max el      |  | -3029 Dec 01 j 07:34 | 29°♍40'06 | 46°49'53   |  |
|                     | -3031 Jun 30 j 21:15 | 0°♏       |            |                     |  | -3029 Dec 01 j 15:22 | 0°♌       |            |  |
|                     | -3031 Jul 25 j 04:05 | 0°♏       |            |                     |  | -3029 Dec 29 j 06:24 | 0°♋       |            |  |
|                     | -3031 Aug 18 j 12:22 | 0°♍       |            |                     |  | -3028 Jan 24 j 06:23 | 0°♊       |            |  |
| desc. node          | -3031 Aug 31 j 05:55 | 15°♍37'30 |            | desc. node          |  | -3028 Feb 16 j 01:57 | 26°♊54'11 |            |  |
|                     | -3031 Sep 12 j 00:17 | 0°♌       |            |                     |  | -3028 Feb 18 j 16:32 | 0°♋       |            |  |
|                     | -3031 Oct 06 j 18:57 | 0°♋       |            |                     |  | -3028 Mar 14 j 19:57 | 0°♌       |            |  |
|                     | -3031 Nov 01 j 03:12 | 0°♊       |            |                     |  | -3028 Apr 08 j 18:35 | 0°♋       |            |  |
|                     | -3031 Nov 27 j 20:23 | 0°♋       |            |                     |  | -3028 May 03 j 12:44 | 0°♍       |            |  |
| evening max el      | -3031 Dec 06 j 14:04 | 9°♋08'05  | 46°52'14   |                     |  | -3028 May 28 j 02:04 | 0°♎       |            |  |
| asc. node           | -3031 Dec 22 j 04:23 | 24°♋00'03 |            | morning set         |  | -3028 May 30 j 22:54 | 3°♎31'11  |            |  |
|                     | -3031 Dec 29 j 10:47 | 0°♌       |            | asc. node           |  | -3028 Jun 08 j 00:35 | 13°♎26'40 |            |  |
| greatest brilliancy | -3030 Jan 15 j 09:30 | 10°♌11'07 | -4.8m      |                     |  | -3028 Jun 21 j 10:20 | 0°♎       |            |  |
| retrograde          | -3030 Jan 26 j 04:58 | 12°♌24'02 |            | max. Earth dist.    |  | -3028 Jul 01 j 20:14 | 12°♎54'30 | 1.72587 AU |  |
| evening set         | -3030 Feb 13 j 00:32 | 6°♌13'05  |            |                     |  |                      |           |            |  |
| min. Earth dist.    | -3030 Feb 16 j 02:32 | 4°♌16'29  | 0.28877 AU | superior conj       |  | -3028 Jul 06 j 04:15 | 18°♎17'34 | 0°59'49    |  |
| inferior conj       | -3030 Feb 16 j 12:07 | 4°♌01'10  | 8°21'43    | minimum elong       |  | -3028 Jul 05 j 19:29 | 17°♎50'21 | 0°59'36    |  |
| minimum elong       | -3030 Feb 16 j 12:49 | 4°♌00'03  | 8°21'38    |                     |  | -3028 Jul 15 j 13:55 | 0°♏       |            |  |
| morning rise        | -3030 Feb 20 j 01:17 | 1°♌47'04  |            |                     |  | -3028 Aug 08 j 14:13 | 0°♏       |            |  |
|                     | -3030 Feb 23 j 02:40 | 30°♎03    |            | evening rise        |  | -3028 Aug 11 j 22:36 | 4°♏11'33  |            |  |
| direct              | -3030 Mar 09 j 19:18 | 25°♎43'45 |            |                     |  | -3028 Sep 01 j 13:16 | 0°♍       |            |  |
| greatest brilliancy | -3030 Mar 19 j 02:44 | 27°♎18'46 | -4.7m      |                     |  | -3028 Sep 25 j 13:08 | 0°♌       |            |  |
|                     | -3030 Mar 25 j 13:29 | 0°♌       |            | desc. node          |  | -3028 Sep 27 j 18:03 | 2°♌45'04  |            |  |
| desc. node          | -3030 Apr 12 j 22:55 | 12°♌28'46 |            |                     |  | -3028 Oct 19 j 15:25 | 0°♋       |            |  |
| morning max el      | -3030 Apr 27 j 14:43 | 25°♌31'42 | 45°48'15   |                     |  | -3028 Nov 12 j 21:51 | 0°♊       |            |  |
|                     | -3030 May 02 j 05:40 | 0°♋       |            |                     |  | -3028 Dec 07 j 11:49 | 0°♋       |            |  |
|                     | -3030 May 30 j 19:50 | 0°♍       |            |                     |  | -3027 Jan 01 j 17:03 | 0°♌       |            |  |
|                     | -3030 Jun 26 j 06:33 | 0°♎       |            | asc. node           |  | -3027 Jan 18 j 16:15 | 19°♌24'43 |            |  |
|                     | -3030 Jul 21 j 14:38 | 0°♎       |            |                     |  | -3027 Jan 28 j 07:17 | 0°♋       |            |  |
| asc. node           | -3030 Aug 03 j 22:21 | 16°♎08'56 |            | evening max el      |  | -3027 Feb 15 j 15:45 | 18°♋55'17 | 45°31'01   |  |
|                     | -3030 Aug 15 j 05:14 | 0°♏       |            |                     |  | -3027 Feb 27 j 17:03 | 0°♍       |            |  |
|                     | -3030 Sep 08 j 08:13 | 0°♏       |            | greatest brilliancy |  | -3027 Mar 25 j 11:05 | 16°♍48'15 | -4.7m      |  |
|                     | -3030 Oct 02 j 04:50 | 0°♍       |            | retrograde          |  | -3027 Apr 05 j 05:28 | 18°♍52'57 |            |  |
| morning set         | -3030 Oct 24 j 08:18 | 27°♍56'19 |            | evening set         |  | -3027 Apr 20 j 20:12 | 14°♍12'53 |            |  |
|                     | -3030 Oct 25 j 23:31 | 0°♌       |            | inferior conj       |  | -3027 Apr 26 j 16:22 | 10°♍41'01 | 3°05'36    |  |
|                     | -3030 Nov 18 j 19:16 | 0°♋       |            | minimum elong       |  | -3027 Apr 26 j 22:38 | 10°♍31'11 | 3°03'56    |  |
| desc. node          | -3030 Nov 23 j 16:08 | 6°♋06'57  |            | min. Earth dist.    |  | -3027 Apr 27 j 06:19 | 10°♍19'07 | 0.29106 AU |  |
|                     |                      |           |            | morning rise        |  | -3027 May 03 j 00:48 | 6°♍51'20  |            |  |
| superior conj       | -3030 Dec 05 j 10:10 | 20°♋51'12 | -0°27'03   | desc. node          |  | -3027 May 10 j 10:29 | 3°♍34'46  |            |  |
| minimum elong       | -3030 Dec 05 j 03:05 | 20°♋29'02 | 0°26'49    | direct              |  | -3027 May 18 j 11:59 | 2°♍18'18  |            |  |
| max. Earth dist.    | -3030 Dec 09 j 21:51 | 26°♋28'18 | 1.71493 AU | greatest brilliancy |  | -3027 May 29 j 05:00 | 4°♍21'31  | -4.7m      |  |
|                     | -3030 Dec 12 j 17:32 | 0°♊       |            |                     |  | -3027 Jul 03 j 23:20 | 0°♎       |            |  |
|                     | -3029 Jan 05 j 18:48 | 0°♋       |            | morning max el      |  | -3027 Jul 06 j 15:48 | 2°♎34'10  | 46°03'10   |  |
| evening rise        | -3029 Jan 15 j 17:00 | 12°♎19'48 |            |                     |  | -3027 Aug 01 j 22:21 | 0°♎       |            |  |
|                     | -3029 Jan 29 j 23:31 | 0°♌       |            |                     |  | -3027 Aug 28 j 01:50 | 0°♏       |            |  |
|                     | -3029 Feb 23 j 08:41 | 0°♋       |            | asc. node           |  | -3027 Aug 31 j 10:11 | 3°♏58'15  |            |  |
| asc. node           | -3029 Mar 16 j 14:24 | 25°♋53'09 |            |                     |  | -3027 Sep 21 j 23:10 | 0°♏       |            |  |
|                     | -3029 Mar 19 j 23:56 | 0°♍       |            |                     |  | -3027 Oct 16 j 05:19 | 0°♍       |            |  |
|                     | -3029 Apr 13 j 23:23 | 0°♎       |            |                     |  | -3027 Nov 09 j 05:18 | 0°♌       |            |  |
|                     | -3029 May 09 j 10:17 | 0°♎       |            |                     |  | -3027 Dec 03 j 04:35 | 0°♋       |            |  |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 76

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                         |            |                     |                      |                               |            |
|---------------------|----------------------|-------------------------|------------|---------------------|----------------------|-------------------------------|------------|
| desc. node          | -3027 Dec 21 j 04:13 | 22° $\mathbb{M}$ 26'49  |            | inferior conj       | -3024 Jul 06 j 02:49 | 18° $\mathbb{II}$ 15'32       | -6°14'09   |
|                     | -3027 Dec 27 j 05:46 | 0° $\mathbb{A}$         |            | minimum elong       | -3024 Jul 05 j 16:30 | 18° $\mathbb{II}$ 31'13       | 6°11'53    |
| morning set         | -3026 Jan 09 j 16:56 | 16° $\mathbb{A}$ 44'33  |            | min. Earth dist.    | -3024 Jul 06 j 10:39 | 18° $\mathbb{II}$ 03'35       | 0.28141 AU |
|                     | -3026 Jan 20 j 09:27 | 0° $\mathbb{Z}$         |            | morning rise        | -3024 Jul 10 j 18:06 | 15° $\mathbb{II}$ 29'06       |            |
|                     | -3026 Feb 13 j 15:28 | 0° $\approx$            |            | direct              | -3024 Jul 27 j 11:32 | 10° $\mathbb{II}$ 10'52       |            |
|                     |                      |                         |            | greatest brilliancy | -3024 Aug 07 j 13:35 | 12° $\mathbb{II}$ 25'00       | -4.8m      |
| superior conj       | -3026 Feb 18 j 11:16 | 5° $\approx$ 57'16      | -1°23'51   |                     | -3024 Sep 02 j 15:20 | 0° $\mathbb{D}$               |            |
| minimum elong       | -3026 Feb 18 j 12:44 | 6° $\approx$ 01'46      | 1°23'56    | morning max el      | -3024 Sep 15 j 18:55 | 12° $\mathbb{D}$ 30'25        | 46°41'34   |
| max. Earth dist.    | -3026 Feb 21 j 02:01 | 9° $\approx$ 10'46      | 1.73092 AU | asc. node           | -3024 Sep 27 j 21:38 | 25° $\mathbb{D}$ 12'25        |            |
|                     | -3026 Mar 09 j 23:41 | 0° $\mathbb{H}$         |            |                     | -3024 Oct 02 j 06:45 | 0° $\mathbb{Q}$               |            |
| evening rise        | -3026 Mar 28 j 02:07 | 22° $\mathbb{H}$ 14'02  |            |                     | -3024 Oct 28 j 08:59 | 0° $\mathbb{P}$               |            |
|                     | -3026 Apr 03 j 10:07 | 0° $\mathbb{Y}$         |            |                     | -3024 Nov 22 j 07:29 | 0° $\mathbb{L}$               |            |
| asc. node           | -3026 Apr 13 j 02:27 | 11° $\mathbb{Y}$ 51'11  |            |                     | -3024 Dec 16 j 20:26 | 0° $\mathbb{M}$               |            |
|                     | -3026 Apr 27 j 22:51 | 0° $\mathbb{B}$         |            |                     | -3023 Jan 10 j 07:17 | 0° $\mathbb{A}$               |            |
|                     | -3026 May 22 j 14:06 | 0° $\mathbb{II}$        |            | desc. node          | -3023 Jan 17 j 16:12 | 9° $\mathbb{A}$ 02'26         |            |
|                     | -3026 Jun 16 j 08:44 | 0° $\mathbb{D}$         |            |                     | -3023 Feb 03 j 18:33 | 0° $\mathbb{Z}$               |            |
|                     | -3026 Jul 11 j 09:03 | 0° $\mathbb{Q}$         |            |                     | -3023 Feb 28 j 06:28 | 0° $\approx$                  |            |
| desc. node          | -3026 Aug 02 j 19:52 | 26° $\mathbb{Q}$ 30'30  |            | morning set         | -3023 Mar 22 j 16:07 | 27° $\approx$ 25'40           |            |
|                     | -3026 Aug 05 j 19:44 | 0° $\mathbb{P}$         |            |                     | -3023 Mar 24 j 18:31 | 0° $\mathbb{H}$               |            |
|                     | -3026 Sep 01 j 03:02 | 0° $\mathbb{L}$         |            |                     | -3023 Apr 18 j 06:02 | 0° $\mathbb{Y}$               |            |
| evening max el      | -3026 Sep 24 j 01:01 | 24° $\mathbb{L}$ 26'46  | 47°31'29   | max. Earth dist.    | -3023 Apr 26 j 09:55 | 10° $\mathbb{Y}$ 00'55        | 1.73712 AU |
|                     | -3026 Sep 29 j 15:20 | 0° $\mathbb{M}$         |            |                     |                      |                               |            |
| greatest brilliancy | -3026 Nov 03 j 19:38 | 26° $\mathbb{M}$ 04'54  | -4.9m      | superior conj       | -3023 Apr 28 j 00:17 | 11° $\mathbb{Y}$ 58'39        | -0°29'01   |
| retrograde          | -3026 Nov 13 j 23:42 | 28° $\mathbb{M}$ 03'56  |            | minimum elong       | -3023 Apr 28 j 05:44 | 12° $\mathbb{Y}$ 15'23        | 0°28'45    |
| asc. node           | -3026 Nov 23 j 18:43 | 26° $\mathbb{M}$ 04'29  |            | asc. node           | -3023 May 10 j 14:38 | 27° $\mathbb{Y}$ 27'05        |            |
| evening set         | -3026 Nov 28 j 12:50 | 23° $\mathbb{M}$ 47'41  |            |                     | -3023 May 12 j 16:24 | 0° $\mathbb{B}$               |            |
| min. Earth dist.    | -3026 Dec 03 j 18:59 | 20° $\mathbb{M}$ 39'53  | 0.26797 AU | evening rise        | -3023 Jun 02 j 18:00 | 25° $\mathbb{B}$ 56'04        |            |
| inferior conj       | -3026 Dec 04 j 16:10 | 20° $\mathbb{M}$ 06'48  | 2°43'32    |                     | -3023 Jun 06 j 01:10 | 0° $\mathbb{II}$              |            |
| minimum elong       | -3026 Dec 04 j 10:26 | 20° $\mathbb{M}$ 15'45  | 2°41'45    |                     | -3023 Jun 30 j 08:35 | 0° $\mathbb{D}$               |            |
| morning rise        | -3026 Dec 10 j 08:49 | 16° $\mathbb{M}$ 42'35  |            |                     | -3023 Jul 24 j 15:46 | 0° $\mathbb{Q}$               |            |
| direct              | -3026 Dec 25 j 00:57 | 12° $\mathbb{M}$ 24'45  |            |                     | -3023 Aug 18 j 00:31 | 0° $\mathbb{P}$               |            |
| greatest brilliancy | -3025 Jan 03 j 05:04 | 14° $\mathbb{M}$ 00'09  | -4.9m      | desc. node          | -3023 Aug 30 j 07:56 | 15° $\mathbb{P}$ 05'38        |            |
|                     | -3025 Jan 28 j 12:40 | 0° $\mathbb{A}$         |            |                     | -3023 Sep 11 j 13:03 | 0° $\mathbb{L}$               |            |
| morning max el      | -3025 Feb 12 j 11:35 | 13° $\mathbb{A}$ 40'55  | 46°14'49   |                     | -3023 Oct 06 j 08:38 | 0° $\mathbb{M}$               |            |
|                     | -3025 Feb 28 j 12:28 | 0° $\mathbb{Z}$         |            |                     | -3023 Oct 31 j 18:33 | 0° $\mathbb{A}$               |            |
| desc. node          | -3025 Mar 15 j 13:35 | 16° $\mathbb{Z}$ 13'42  |            |                     | -3023 Nov 27 j 15:46 | 0° $\mathbb{Z}$               |            |
|                     | -3025 Mar 27 j 22:23 | 0° $\approx$            |            | evening max el      | -3023 Dec 04 j 06:17 | 6° $\mathbb{Z}$ 52'09         | 46°55'05   |
|                     | -3025 Apr 23 j 02:32 | 0° $\mathbb{H}$         |            | asc. node           | -3023 Dec 21 j 06:34 | 22° $\mathbb{Z}$ 58'24        |            |
|                     | -3025 May 18 j 14:16 | 0° $\mathbb{Y}$         |            |                     | -3023 Dec 30 j 02:56 | 0° $\approx$                  |            |
|                     | -3025 Jun 12 j 14:01 | 0° $\mathbb{B}$         |            | greatest brilliancy | -3022 Jan 13 j 01:20 | 7° $\approx$ 57'14            | -4.8m      |
| asc. node           | -3025 Jul 06 j 12:35 | 29° $\mathbb{B}$ 13'54  |            | retrograde          | -3022 Jan 23 j 22:14 | 10° $\approx$ 11'26           |            |
|                     | -3025 Jul 07 j 03:34 | 0° $\mathbb{II}$        |            | evening set         | -3022 Feb 10 j 16:35 | 4° $\approx$ 00'53            |            |
|                     | -3025 Jul 31 j 08:28 | 0° $\mathbb{D}$         |            | min. Earth dist.    | -3022 Feb 13 j 17:14 | 2° $\approx$ 06'29            | 0.28832 AU |
| morning set         | -3025 Aug 08 j 16:26 | 10° $\mathbb{D}$ 24'34  |            | inferior conj       | -3022 Feb 14 j 04:30 | 1° $\approx$ 48'29            | 8°22'29    |
|                     | -3025 Aug 24 j 07:09 | 0° $\mathbb{Q}$         |            | minimum elong       | -3022 Feb 14 j 04:28 | 1° $\approx$ 48'31            | 8°22'25    |
| max. Earth dist.    | -3025 Sep 15 j 05:11 | 27° $\mathbb{Q}$ 36'39  | 1.71039 AU |                     | -3022 Feb 17 j 01:09 | 30° $\mathbb{R}$ $\mathbb{Z}$ |            |
|                     |                      |                         |            | morning rise        | -3022 Feb 17 j 16:36 | 29° $\mathbb{Z}$ 36'12        |            |
| superior conj       | -3025 Sep 16 j 04:00 | 28° $\mathbb{Q}$ 48'32  | 1°15'55    | direct              | -3022 Mar 07 j 11:24 | 23° $\mathbb{Z}$ 31'53        |            |
| minimum elong       | -3025 Sep 16 j 12:26 | 29° $\mathbb{Q}$ 15'09  | 1°15'46    | greatest brilliancy | -3022 Mar 16 j 16:44 | 25° $\mathbb{Z}$ 05'43        | -4.7m      |
|                     | -3025 Sep 17 j 02:39 | 0° $\mathbb{P}$         |            |                     | -3022 Mar 27 j 05:13 | 0° $\approx$                  |            |
|                     | -3025 Oct 10 j 21:52 | 0° $\mathbb{L}$         |            | desc. node          | -3022 Apr 12 j 00:58 | 11° $\approx$ 28'28           |            |
| desc. node          | -3025 Oct 26 j 06:11 | 19° $\mathbb{L}$ 18'20  |            | morning max el      | -3022 Apr 25 j 07:37 | 23° $\approx$ 23'35           | 45°48'23   |
| evening rise        | -3025 Oct 27 j 13:19 | 20° $\mathbb{L}$ 56'06  |            |                     | -3022 May 02 j 02:24 | 0° $\mathbb{H}$               |            |
|                     | -3025 Nov 03 j 18:39 | 0° $\mathbb{M}$         |            |                     | -3022 May 30 j 11:10 | 0° $\mathbb{Y}$               |            |
|                     | -3025 Nov 27 j 18:04 | 0° $\mathbb{A}$         |            |                     | -3022 Jun 25 j 19:49 | 0° $\mathbb{B}$               |            |
|                     | -3025 Dec 21 j 21:14 | 0° $\mathbb{Z}$         |            |                     | -3022 Jul 21 j 02:54 | 0° $\mathbb{II}$              |            |
|                     | -3024 Jan 15 j 06:21 | 0° $\approx$            |            | asc. node           | -3022 Aug 03 j 00:30 | 15° $\mathbb{II}$ 38'56       |            |
|                     | -3024 Feb 09 j 01:28 | 0° $\mathbb{H}$         |            |                     | -3022 Aug 14 j 16:59 | 0° $\mathbb{D}$               |            |
| asc. node           | -3024 Feb 16 j 04:19 | 8° $\mathbb{H}$ 28'51   |            |                     | -3022 Sep 07 j 19:44 | 0° $\mathbb{Q}$               |            |
|                     | -3024 Mar 05 j 13:19 | 0° $\mathbb{Y}$         |            |                     | -3022 Oct 01 j 16:14 | 0° $\mathbb{P}$               |            |
|                     | -3024 Apr 01 j 06:48 | 0° $\mathbb{B}$         |            | morning set         | -3022 Oct 21 j 18:49 | 25° $\mathbb{P}$ 22'28        |            |
| evening max el      | -3024 Apr 27 j 08:50 | 26° $\mathbb{B}$ 44'47  | 45°14'10   |                     | -3022 Oct 25 j 10:50 | 0° $\mathbb{L}$               |            |
|                     | -3024 Apr 30 j 20:08 | 0° $\mathbb{II}$        |            |                     | -3022 Nov 18 j 06:31 | 0° $\mathbb{M}$               |            |
| greatest brilliancy | -3024 Jun 04 j 15:53 | 24° $\mathbb{II}$ 16'25 | -4.7m      | desc. node          | -3022 Nov 22 j 18:18 | 5° $\mathbb{M}$ 38'29         |            |
| desc. node          | -3024 Jun 06 j 22:18 | 24° $\mathbb{II}$ 59'26 |            |                     |                      |                               |            |
| retrograde          | -3024 Jun 14 j 21:16 | 26° $\mathbb{II}$ 08'51 |            | superior conj       | -3022 Dec 02 j 19:25 | 18° $\mathbb{M}$ 14'39        | -0°23'15   |
| evening set         | -3024 Jun 30 j 14:25 | 21° $\mathbb{II}$ 30'01 |            | minimum elong       | -3022 Dec 02 j 13:14 | 17° $\mathbb{M}$ 55'17        | 0°23'03    |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                               |            |                     |                      |                        |            |
|---------------------|----------------------|-------------------------------|------------|---------------------|----------------------|------------------------|------------|
| max. Earth dist.    | -3022 Dec 07 j 09:09 | 23° $\mathbb{M}$ 58'23        | 1.71441 AU | greatest brilliancy | -3019 May 26 j 21:27 | 2° $\mathbb{Y}$ 13'31  | -4.7m      |
|                     | -3022 Dec 12 j 04:43 | 0° $\mathbb{X}$               |            |                     | -3019 Jul 03 j 22:08 | 0° $\mathbb{B}$        |            |
|                     | -3021 Jan 05 j 05:57 | 0° $\mathbb{Z}$               |            | morning max el      | -3019 Jul 04 j 06:48 | 0° $\mathbb{B}$ 20'54  | 46°01'58   |
| evening rise        | -3021 Jan 13 j 05:25 | 9° $\mathbb{Z}$ 54'54         |            |                     | -3019 Aug 01 j 14:16 | 0° $\mathbb{II}$       |            |
|                     | -3021 Jan 29 j 10:40 | 0° $\approx$                  |            |                     | -3019 Aug 27 j 15:26 | 0° $\mathbb{E}$        |            |
|                     | -3021 Feb 22 j 19:57 | 0° $\mathbb{H}$               |            | asc. node           | -3019 Aug 30 j 12:11 | 3° $\mathbb{E}$ 24'14  |            |
| asc. node           | -3021 Mar 15 j 16:24 | 25° $\mathbb{H}$ 24'17        |            |                     | -3019 Sep 21 j 11:41 | 0° $\mathbb{Q}$        |            |
|                     | -3021 Mar 19 j 11:31 | 0° $\mathbb{Y}$               |            |                     | -3019 Oct 15 j 17:16 | 0° $\mathbb{P}$        |            |
|                     | -3021 Apr 13 j 11:36 | 0° $\mathbb{B}$               |            |                     | -3019 Nov 08 j 16:54 | 0° $\mathbb{L}$        |            |
|                     | -3021 May 08 j 23:39 | 0° $\mathbb{II}$              |            |                     | -3019 Dec 02 j 15:58 | 0° $\mathbb{M}$        |            |
|                     | -3021 Jun 04 j 07:02 | 0° $\mathbb{E}$               |            | desc. node          | -3019 Dec 20 j 06:20 | 21° $\mathbb{M}$ 58'24 |            |
|                     | -3021 Jul 02 j 06:50 | 0° $\mathbb{Q}$               |            |                     | -3019 Dec 26 j 16:57 | 0° $\mathbb{X}$        |            |
| desc. node          | -3021 Jul 05 j 10:05 | 3° $\mathbb{Q}$ 09'36         |            | morning set         | -3018 Jan 07 j 04:06 | 14° $\mathbb{X}$ 15'44 |            |
| evening max el      | -3021 Jul 10 j 04:16 | 7° $\mathbb{Q}$ 50'38         | 46°21'10   |                     | -3018 Jan 19 j 20:28 | 0° $\mathbb{Z}$        |            |
|                     | -3021 Aug 05 j 10:21 | 0° $\mathbb{P}$               |            |                     | -3018 Feb 13 j 02:21 | 0° $\approx$           |            |
| greatest brilliancy | -3021 Aug 19 j 19:56 | 7° $\mathbb{P}$ 21'37         | -4.9m      |                     |                      |                        |            |
| retrograde          | -3021 Aug 28 j 20:41 | 8° $\mathbb{P}$ 51'43         |            | superior conj       | -3018 Feb 16 j 02:22 | 3° $\approx$ 42'17     | -1°24'03   |
| evening set         | -3021 Sep 15 j 00:03 | 3° $\mathbb{P}$ 17'55         |            | minimum elong       | -3018 Feb 16 j 03:02 | 3° $\approx$ 44'21     | 1°24'08    |
| inferior conj       | -3021 Sep 18 j 12:16 | 1° $\mathbb{P}$ 12'05         | -7°56'30   | max. Earth dist.    | -3018 Feb 18 j 19:21 | 7° $\approx$ 02'43     | 1.73040 AU |
| minimum elong       | -3021 Sep 18 j 21:28 | 0° $\mathbb{P}$ 58'09         | 7°55'04    |                     | -3018 Mar 09 j 10:29 | 0° $\mathbb{H}$        |            |
| min. Earth dist.    | -3021 Sep 19 j 00:20 | 0° $\mathbb{P}$ 53'48         | 0.26757 AU | evening rise        | -3018 Mar 25 j 19:36 | 20° $\mathbb{H}$ 07'18 |            |
|                     | -3021 Sep 20 j 12:03 | 30° $\mathbb{R}$ $\mathbb{Q}$ |            |                     | -3018 Apr 02 j 20:57 | 0° $\mathbb{Y}$        |            |
| morning rise        | -3021 Sep 22 j 18:43 | 28° $\mathbb{Q}$ 40'04        |            | asc. node           | -3018 Apr 12 j 04:37 | 11° $\mathbb{Y}$ 24'37 |            |
| direct              | -3021 Oct 09 j 01:35 | 23° $\mathbb{Q}$ 32'08        |            |                     | -3018 Apr 27 j 09:51 | 0° $\mathbb{B}$        |            |
| greatest brilliancy | -3021 Oct 19 j 17:56 | 25° $\mathbb{Q}$ 42'42        | -4.9m      |                     | -3018 May 22 j 01:27 | 0° $\mathbb{II}$       |            |
| asc. node           | -3021 Oct 26 j 09:13 | 28° $\mathbb{Q}$ 55'51        |            |                     | -3018 Jun 15 j 20:42 | 0° $\mathbb{E}$        |            |
|                     | -3021 Oct 28 j 04:26 | 0° $\mathbb{P}$               |            |                     | -3018 Jul 10 j 21:59 | 0° $\mathbb{Q}$        |            |
| morning max el      | -3021 Nov 28 j 20:30 | 27° $\mathbb{P}$ 11'51        | 46°50'31   | desc. node          | -3018 Aug 01 j 21:50 | 25° $\mathbb{Q}$ 54'33 |            |
|                     | -3021 Dec 01 j 13:51 | 0° $\mathbb{L}$               |            |                     | -3018 Aug 05 j 10:15 | 0° $\mathbb{P}$        |            |
|                     | -3021 Dec 28 j 22:50 | 0° $\mathbb{M}$               |            |                     | -3018 Aug 31 j 20:37 | 0° $\mathbb{L}$        |            |
|                     | -3020 Jan 23 j 20:24 | 0° $\mathbb{X}$               |            | evening max el      | -3018 Sep 21 j 14:03 | 22° $\mathbb{L}$ 00'01 | 47°30'44   |
| desc. node          | -3020 Feb 15 j 03:59 | 26° $\mathbb{X}$ 22'11        |            |                     | -3018 Sep 29 j 17:35 | 0° $\mathbb{M}$        |            |
|                     | -3020 Feb 18 j 05:14 | 0° $\mathbb{Z}$               |            | greatest brilliancy | -3018 Nov 01 j 10:48 | 23° $\mathbb{M}$ 39'05 | -4.9m      |
|                     | -3020 Mar 14 j 07:50 | 0° $\approx$                  |            | retrograde          | -3018 Nov 11 j 12:48 | 25° $\mathbb{M}$ 36'39 |            |
|                     | -3020 Apr 08 j 05:57 | 0° $\mathbb{H}$               |            | asc. node           | -3018 Nov 22 j 20:54 | 22° $\mathbb{M}$ 57'45 |            |
|                     | -3020 May 02 j 23:47 | 0° $\mathbb{Y}$               |            | evening set         | -3018 Nov 26 j 01:19 | 21° $\mathbb{M}$ 21'48 |            |
|                     | -3020 May 27 j 12:59 | 0° $\mathbb{B}$               |            | min. Earth dist.    | -3018 Dec 01 j 09:26 | 18° $\mathbb{M}$ 11'47 | 0.26741 AU |
| morning set         | -3020 May 28 j 17:36 | 1° $\mathbb{B}$ 27'48         |            | inferior conj       | -3018 Dec 02 j 05:21 | 17° $\mathbb{M}$ 40'48 | 2°21'23    |
| asc. node           | -3020 Jun 07 j 02:47 | 12° $\mathbb{B}$ 59'56        |            | minimum elong       | -3018 Dec 02 j 00:19 | 17° $\mathbb{M}$ 48'38 | 2°19'45    |
|                     | -3020 Jun 20 j 21:14 | 0° $\mathbb{II}$              |            | morning rise        | -3018 Dec 07 j 23:58 | 14° $\mathbb{M}$ 14'06 |            |
| max. Earth dist.    | -3020 Jun 29 j 12:09 | 10° $\mathbb{II}$ 41'08       | 1.72647 AU | direct              | -3018 Dec 22 j 13:03 | 9° $\mathbb{M}$ 59'22  |            |
|                     |                      |                               |            | greatest brilliancy | -3018 Dec 31 j 19:40 | 11° $\mathbb{M}$ 36'54 | -4.9m      |
| superior conj       | -3020 Jul 03 j 22:01 | 16° $\mathbb{II}$ 09'45       | 0°57'31    |                     | -3017 Jan 28 j 20:08 | 0° $\mathbb{X}$        |            |
| minimum elong       | -3020 Jul 03 j 13:19 | 15° $\mathbb{II}$ 42'44       | 0°57'18    | morning max el      | -3017 Feb 10 j 01:07 | 11° $\mathbb{X}$ 20'17 | 46°16'18   |
|                     | -3020 Jul 15 j 00:52 | 0° $\mathbb{E}$               |            |                     | -3017 Feb 28 j 06:35 | 0° $\mathbb{Z}$        |            |
|                     | -3020 Aug 08 j 01:17 | 0° $\mathbb{Q}$               |            | desc. node          | -3017 Mar 14 j 15:36 | 15° $\mathbb{Z}$ 35'49 |            |
| evening rise        | -3020 Aug 09 j 13:38 | 1° $\mathbb{Q}$ 53'44         |            |                     | -3017 Mar 27 j 12:46 | 0° $\approx$           |            |
|                     | -3020 Sep 01 j 00:31 | 0° $\mathbb{P}$               |            |                     | -3017 Apr 22 j 15:12 | 0° $\mathbb{H}$        |            |
|                     | -3020 Sep 25 j 00:38 | 0° $\mathbb{L}$               |            |                     | -3017 May 18 j 02:02 | 0° $\mathbb{Y}$        |            |
| desc. node          | -3020 Sep 26 j 20:04 | 2° $\mathbb{L}$ 15'25         |            |                     | -3017 Jun 12 j 01:16 | 0° $\mathbb{B}$        |            |
|                     | -3020 Oct 19 j 03:14 | 0° $\mathbb{M}$               |            | asc. node           | -3017 Jul 05 j 14:42 | 28° $\mathbb{B}$ 46'42 |            |
|                     | -3020 Nov 12 j 10:04 | 0° $\mathbb{X}$               |            |                     | -3017 Jul 06 j 14:32 | 0° $\mathbb{II}$       |            |
|                     | -3020 Dec 07 j 00:40 | 0° $\mathbb{Z}$               |            |                     | -3017 Jul 30 j 19:21 | 0° $\mathbb{E}$        |            |
|                     | -3019 Jan 01 j 07:07 | 0° $\approx$                  |            | morning set         | -3017 Aug 06 j 07:40 | 8° $\mathbb{E}$ 08'02  |            |
| asc. node           | -3019 Jan 17 j 18:23 | 18° $\approx$ 46'58           |            |                     | -3017 Aug 23 j 18:03 | 0° $\mathbb{Q}$        |            |
|                     | -3019 Jan 28 j 00:24 | 0° $\mathbb{H}$               |            | max. Earth dist.    | -3017 Sep 12 j 14:00 | 24° $\mathbb{Q}$ 58'27 | 1.71074 AU |
| evening max el      | -3019 Feb 13 j 06:35 | 16° $\mathbb{H}$ 41'37        | 45°33'07   |                     |                      |                        |            |
|                     | -3019 Feb 27 j 22:24 | 0° $\mathbb{Y}$               |            | superior conj       | -3017 Sep 13 j 16:14 | 26° $\mathbb{Q}$ 21'10 | 1°17'27    |
| greatest brilliancy | -3019 Mar 23 j 04:21 | 14° $\mathbb{Y}$ 42'05        | -4.7m      | minimum elong       | -3017 Sep 13 j 24:00 | 26° $\mathbb{Q}$ 45'38 | 1°17'21    |
| retrograde          | -3019 Apr 02 j 21:38 | 16° $\mathbb{Y}$ 46'22        |            |                     | -3017 Sep 16 j 13:39 | 0° $\mathbb{P}$        |            |
| evening set         | -3019 Apr 18 j 14:58 | 12° $\mathbb{Y}$ 03'10        |            |                     | -3017 Oct 10 j 08:57 | 0° $\mathbb{L}$        |            |
| inferior conj       | -3019 Apr 24 j 09:12 | 8° $\mathbb{Y}$ 33'55         | 3°23'03    | evening rise        | -3017 Oct 24 j 22:05 | 18° $\mathbb{L}$ 17'58 |            |
| minimum elong       | -3019 Apr 24 j 15:56 | 8° $\mathbb{Y}$ 23'19         | 3°21'18    | desc. node          | -3017 Oct 25 j 08:21 | 18° $\mathbb{L}$ 50'13 |            |
| min. Earth dist.    | -3019 Apr 24 j 23:22 | 8° $\mathbb{Y}$ 11'38         | 0.29128 AU |                     | -3017 Nov 03 j 05:48 | 0° $\mathbb{M}$        |            |
| morning rise        | -3019 Apr 30 j 16:35 | 4° $\mathbb{Y}$ 45'09         |            |                     | -3017 Nov 27 j 05:18 | 0° $\mathbb{X}$        |            |
| desc. node          | -3019 May 09 j 12:38 | 1° $\mathbb{Y}$ 02'49         |            |                     | -3017 Dec 21 j 08:37 | 0° $\mathbb{Z}$        |            |
| direct              | -3019 May 16 j 04:22 | 0° $\mathbb{Y}$ 10'48         |            |                     | -3016 Jan 14 j 18:01 | 0° $\approx$           |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
|                     | -3016 Feb 08 j 13:43 | 0° $\text{H}$        |            |                     | -3014 Aug 14 j 04:24 | 0° $\text{G}$        |            |
| asc. node           | -3016 Feb 15 j 06:18 | 7° $\text{H}$ 57'45  |            |                     | -3014 Sep 07 j 06:55 | 0° $\text{Q}$        |            |
|                     | -3016 Mar 05 j 02:45 | 0° $\text{Y}$        |            |                     | -3014 Oct 01 j 03:18 | 0° $\text{P}$        |            |
|                     | -3016 Mar 31 j 22:57 | 0° $\text{B}$        |            | morning set         | -3014 Oct 19 j 05:40 | 22° $\text{P}$ 50'27 |            |
| evening max el      | -3016 Apr 25 j 00:28 | 24° $\text{B}$ 34'04 | 45°13'23   |                     | -3014 Oct 24 j 21:52 | 0° $\text{A}$        |            |
|                     | -3016 Apr 30 j 21:03 | 0° $\text{I}$        |            |                     | -3014 Nov 17 j 17:33 | 0° $\text{M}$        |            |
| greatest brilliancy | -3016 Jun 02 j 04:28 | 22° $\text{I}$ 01'05 | -4.7m      | desc. node          | -3014 Nov 21 j 20:25 | 5° $\text{M}$ 10'30  |            |
| desc. node          | -3016 Jun 06 j 00:27 | 23° $\text{I}$ 08'37 |            |                     |                      |                      |            |
| retrograde          | -3016 Jun 12 j 12:19 | 23° $\text{I}$ 55'17 |            | superior conj       | -3014 Nov 30 j 04:29 | 15° $\text{M}$ 38'04 | -0°19'24   |
| evening set         | -3016 Jun 28 j 02:15 | 19° $\text{I}$ 19'52 |            | minimum elong       | -3014 Nov 29 j 23:16 | 15° $\text{M}$ 21'43 | 0°19'12    |
| inferior conj       | -3016 Jul 03 j 17:33 | 16° $\text{I}$ 01'07 | -5°58'39   | max. Earth dist.    | -3014 Dec 04 j 20:19 | 21° $\text{M}$ 28'29 | 1.71396 AU |
| minimum elong       | -3016 Jul 03 j 07:18 | 16° $\text{I}$ 16'42 | 5°56'19    |                     | -3014 Dec 11 j 15:45 | 0° $\text{J}$        |            |
| min. Earth dist.    | -3016 Jul 04 j 00:56 | 15° $\text{I}$ 49'51 | 0.28183 AU |                     | -3013 Jan 04 j 16:58 | 0° $\text{Z}$        |            |
| morning rise        | -3016 Jul 08 j 11:56 | 13° $\text{I}$ 10'26 |            | evening rise        | -3013 Jan 10 j 17:13 | 7° $\text{Z}$ 28'19  |            |
| direct              | -3016 Jul 25 j 03:24 | 7° $\text{I}$ 55'46  |            |                     | -3013 Jan 28 j 21:41 | 0° $\approx$         |            |
| greatest brilliancy | -3016 Aug 05 j 04:34 | 10° $\text{I}$ 09'27 | -4.8m      |                     | -3013 Feb 22 j 07:04 | 0° $\text{H}$        |            |
|                     | -3016 Sep 02 j 19:35 | 0° $\text{G}$        |            | asc. node           | -3013 Mar 14 j 18:34 | 24° $\text{H}$ 56'27 |            |
| morning max el      | -3016 Sep 13 j 10:21 | 10° $\text{G}$ 12'53 | 46°40'17   |                     | -3013 Mar 18 j 22:56 | 0° $\text{Y}$        |            |
| asc. node           | -3016 Sep 26 j 23:52 | 24° $\text{G}$ 28'23 |            |                     | -3013 Apr 12 j 23:40 | 0° $\text{B}$        |            |
|                     | -3016 Oct 02 j 00:16 | 0° $\text{Q}$        |            |                     | -3013 May 08 j 12:53 | 0° $\text{I}$        |            |
|                     | -3016 Oct 27 j 23:28 | 0° $\text{P}$        |            |                     | -3013 Jun 03 j 22:35 | 0° $\text{G}$        |            |
|                     | -3016 Nov 21 j 20:35 | 0° $\text{A}$        |            |                     | -3013 Jul 02 j 04:01 | 0° $\text{Q}$        |            |
|                     | -3016 Dec 16 j 08:43 | 0° $\text{M}$        |            | desc. node          | -3013 Jul 04 j 12:07 | 2° $\text{Q}$ 19'41  |            |
|                     | -3015 Jan 09 j 19:00 | 0° $\text{J}$        |            | evening max el      | -3013 Jul 07 j 17:16 | 5° $\text{Q}$ 28'29  | 46°18'02   |
| desc. node          | -3015 Jan 16 j 18:15 | 8° $\text{J}$ 33'10  |            |                     | -3013 Aug 06 j 18:30 | 0° $\text{P}$        |            |
|                     | -3015 Feb 03 j 05:51 | 0° $\text{Z}$        |            | greatest brilliancy | -3013 Aug 17 j 08:15 | 4° $\text{P}$ 55'42  | -4.9m      |
|                     | -3015 Feb 27 j 17:27 | 0° $\approx$         |            | retrograde          | -3013 Aug 26 j 08:10 | 6° $\text{P}$ 24'59  |            |
| morning set         | -3015 Mar 20 j 09:22 | 25° $\approx$ 18'28  |            | evening set         | -3013 Sep 12 j 15:23 | 0° $\text{P}$ 47'14  |            |
|                     | -3015 Mar 24 j 05:17 | 0° $\text{H}$        |            |                     | -3013 Sep 13 j 23:21 | 30° $\text{R}$ Q     |            |
|                     | -3015 Apr 17 j 16:42 | 0° $\text{Y}$        |            | inferior conj       | -3013 Sep 16 j 00:41 | 28° $\text{Q}$ 45'30 | -8°06'57   |
| max. Earth dist.    | -3015 Apr 24 j 09:33 | 8° $\text{Y}$ 13'26  | 1.73718 AU | minimum elong       | -3013 Sep 16 j 09:18 | 28° $\text{Q}$ 32'26 | 8°05'44    |
|                     |                      |                      |            | min. Earth dist.    | -3013 Sep 16 j 13:12 | 28° $\text{Q}$ 26'31 | 0.26800 AU |
| superior conj       | -3015 Apr 25 j 19:00 | 9° $\text{Y}$ 56'05  | -0°31'52   | morning rise        | -3013 Sep 20 j 03:03 | 26° $\text{Q}$ 19'00 |            |
| minimum elong       | -3015 Apr 26 j 00:56 | 10° $\text{Y}$ 14'17 | 0°31'36    | direct              | -3013 Oct 06 j 14:19 | 21° $\text{Q}$ 04'57 |            |
| asc. node           | -3015 May 09 j 16:49 | 27° $\text{Y}$ 01'07 |            | greatest brilliancy | -3013 Oct 17 j 07:40 | 23° $\text{Q}$ 15'48 | -4.9m      |
|                     | -3015 May 12 j 03:02 | 0° $\text{B}$        |            | asc. node           | -3013 Oct 25 j 11:22 | 27° $\text{Q}$ 22'50 |            |
| evening rise        | -3015 May 31 j 13:32 | 23° $\text{B}$ 55'19 |            |                     | -3013 Oct 29 j 11:45 | 0° $\text{P}$        |            |
|                     | -3015 Jun 05 j 11:55 | 0° $\text{I}$        |            | morning max el      | -3013 Nov 26 j 08:35 | 24° $\text{P}$ 42'07 | 46°50'59   |
|                     | -3015 Jun 29 j 19:33 | 0° $\text{G}$        |            |                     | -3013 Dec 01 j 11:13 | 0° $\text{A}$        |            |
|                     | -3015 Jul 24 j 03:05 | 0° $\text{Q}$        |            |                     | -3013 Dec 28 j 14:50 | 0° $\text{M}$        |            |
|                     | -3015 Aug 17 j 12:20 | 0° $\text{P}$        |            |                     | -3012 Jan 23 j 10:12 | 0° $\text{J}$        |            |
| desc. node          | -3015 Aug 29 j 10:00 | 14° $\text{P}$ 34'54 |            | desc. node          | -3012 Feb 14 j 06:01 | 25° $\text{J}$ 50'26 |            |
|                     | -3015 Sep 11 j 01:32 | 0° $\text{A}$        |            |                     | -3012 Feb 17 j 17:50 | 0° $\text{Z}$        |            |
|                     | -3015 Oct 05 j 22:09 | 0° $\text{M}$        |            |                     | -3012 Mar 13 j 19:39 | 0° $\approx$         |            |
|                     | -3015 Oct 31 j 09:55 | 0° $\text{J}$        |            |                     | -3012 Apr 07 j 17:14 | 0° $\text{H}$        |            |
|                     | -3015 Nov 27 j 11:38 | 0° $\text{Z}$        |            |                     | -3012 May 02 j 10:45 | 0° $\text{Y}$        |            |
| evening max el      | -3015 Dec 01 j 22:52 | 4° $\text{Z}$ 37'18  | 46°57'48   | morning set         | -3012 May 26 j 12:12 | 29° $\text{Y}$ 24'28 |            |
| asc. node           | -3015 Dec 20 j 08:41 | 21° $\text{Z}$ 55'14 |            |                     | -3012 May 26 j 23:47 | 0° $\text{B}$        |            |
|                     | -3015 Dec 31 j 00:41 | 0° $\approx$         |            | asc. node           | -3012 Jun 06 j 04:48 | 12° $\text{B}$ 33'00 |            |
| greatest brilliancy | -3014 Jan 10 j 17:35 | 5° $\approx$ 43'49   | -4.8m      |                     | -3012 Jun 20 j 08:00 | 0° $\text{I}$        |            |
| retrograde          | -3014 Jan 21 j 15:17 | 7° $\approx$ 58'29   |            | max. Earth dist.    | -3012 Jun 27 j 06:14 | 8° $\text{I}$ 34'57  | 1.72708 AU |
| evening set         | -3014 Feb 08 j 08:14 | 1° $\approx$ 49'09   |            |                     |                      |                      |            |
|                     | -3014 Feb 11 j 05:31 | 30° $\text{R}$ 3     |            | superior conj       | -3012 Jul 01 j 15:53 | 14° $\text{I}$ 02'44 | 0°55'10    |
| inferior conj       | -3014 Feb 11 j 20:42 | 29° $\text{Z}$ 35'45 | 8°22'41    | minimum elong       | -3012 Jul 01 j 07:18 | 13° $\text{I}$ 36'04 | 0°54'56    |
| minimum elong       | -3014 Feb 11 j 19:57 | 29° $\text{Z}$ 36'57 | 8°22'35    |                     | -3012 Jul 14 j 11:43 | 0° $\text{G}$        |            |
| min. Earth dist.    | -3014 Feb 11 j 07:46 | 29° $\text{Z}$ 56'25 | 0.28778 AU | evening rise        | -3012 Aug 07 j 05:08 | 29° $\text{G}$ 37'41 |            |
| morning rise        | -3014 Feb 15 j 07:57 | 27° $\text{Z}$ 24'51 |            |                     | -3012 Aug 07 j 12:16 | 0° $\text{Q}$        |            |
| direct              | -3014 Mar 05 j 03:31 | 21° $\text{Z}$ 20'20 |            |                     | -3012 Aug 31 j 11:43 | 0° $\text{P}$        |            |
| greatest brilliancy | -3014 Mar 14 j 06:17 | 22° $\text{Z}$ 52'30 | -4.7m      |                     | -3012 Sep 24 j 12:04 | 0° $\text{A}$        |            |
|                     | -3014 Mar 28 j 08:34 | 0° $\approx$         |            | desc. node          | -3012 Sep 25 j 22:16 | 1° $\text{A}$ 46'36  |            |
| desc. node          | -3014 Apr 11 j 03:13 | 10° $\approx$ 30'42  |            |                     | -3012 Oct 18 j 14:58 | 0° $\text{M}$        |            |
| morning max el      | -3014 Apr 22 j 23:40 | 21° $\approx$ 14'19  | 45°48'36   |                     | -3012 Nov 11 j 22:12 | 0° $\text{J}$        |            |
|                     | -3014 May 01 j 22:07 | 0° $\text{H}$        |            |                     | -3012 Dec 06 j 13:28 | 0° $\text{Z}$        |            |
|                     | -3014 May 30 j 01:56 | 0° $\text{Y}$        |            |                     | -3012 Dec 31 j 21:17 | 0° $\approx$         |            |
|                     | -3014 Jun 25 j 08:39 | 0° $\text{B}$        |            | asc. node           | -3011 Jan 16 j 20:23 | 18° $\approx$ 08'28  |            |
|                     | -3014 Jul 20 j 14:48 | 0° $\text{I}$        |            |                     | -3011 Jan 27 j 17:55 | 0° $\text{H}$        |            |
| asc. node           | -3014 Aug 02 j 02:30 | 15° $\text{I}$ 09'35 |            | evening max el      | -3011 Feb 10 j 20:51 | 14° $\text{H}$ 26'17 | 45°35'14   |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -3011 Feb 28 j 06:10 | 0°♂       |            | max. Earth dist.    | -3009 Sep 09 j 23:51 | 22°♂23'03 | 1.71107 AU |
| greatest brilliancy | -3011 Mar 20 j 21:20 | 12°♂35'04 | -4.7m      |                     |                      |           |            |
| retrograde          | -3011 Mar 31 j 14:05 | 14°♂39'31 |            | superior conj       | -3009 Sep 11 j 04:45 | 23°♂54'08 | 1°18'49    |
| evening set         | -3011 Apr 16 j 09:46 | 9°♂52'46  |            | minimum elong       | -3009 Sep 11 j 11:48 | 24°♂16'21 | 1°18'46    |
| inferior conj       | -3011 Apr 22 j 02:00 | 6°♂26'25  | 3°40'13    |                     | -3009 Sep 16 j 00:50 | 0°♂       |            |
| minimum elong       | -3011 Apr 22 j 09:11 | 6°♂15'08  | 3°38'25    |                     | -3009 Oct 09 j 20:14 | 0°♂       |            |
| min. Earth dist.    | -3011 Apr 22 j 16:22 | 6°♂03'49  | 0.29149 AU | evening rise        | -3009 Oct 22 j 07:05 | 15°♂39'51 |            |
| morning rise        | -3011 Apr 28 j 08:13 | 2°♂39'01  |            | desc. node          | -3009 Oct 24 j 10:25 | 18°♂21'05 |            |
|                     | -3011 May 03 j 21:06 | 30°♂      |            |                     | -3009 Nov 02 j 17:12 | 0°♂       |            |
| desc. node          | -3011 May 08 j 14:44 | 28°♂35'05 |            |                     | -3009 Nov 26 j 16:48 | 0°♂       |            |
| direct              | -3011 May 13 j 20:32 | 28°♂02'48 |            |                     | -3009 Dec 20 j 20:16 | 0°♂       |            |
|                     | -3011 May 24 j 07:49 | 0°♂       |            |                     | -3008 Jan 14 j 05:58 | 0°♂       |            |
| greatest brilliancy | -3011 May 24 j 14:07 | 0°♂05'41  | -4.7m      |                     | -3008 Feb 08 j 02:15 | 0°♂       |            |
| morning max el      | -3011 Jul 01 j 22:18 | 28°♂08'55 | 46°00'54   | asc. node           | -3008 Feb 14 j 08:32 | 7°♂26'32  |            |
|                     | -3011 Jul 03 j 20:03 | 0°♂       |            |                     | -3008 Mar 04 j 16:32 | 0°♂       |            |
|                     | -3011 Aug 01 j 05:55 | 0°♂       |            |                     | -3008 Mar 31 j 15:43 | 0°♂       |            |
|                     | -3011 Aug 27 j 04:54 | 0°♂       |            | evening max el      | -3008 Apr 22 j 16:36 | 22°♂23'39 | 45°12'30   |
| asc. node           | -3011 Aug 29 j 14:22 | 2°♂50'58  |            |                     | -3008 Apr 30 j 23:48 | 0°♂       |            |
|                     | -3011 Sep 21 j 00:09 | 0°♂       |            | greatest brilliancy | -3008 May 30 j 17:37 | 19°♂45'24 | -4.7m      |
|                     | -3011 Oct 15 j 05:12 | 0°♂       |            | desc. node          | -3008 Jun 05 j 02:29 | 21°♂12'21 |            |
|                     | -3011 Nov 08 j 04:32 | 0°♂       |            | retrograde          | -3008 Jun 10 j 03:11 | 21°♂40'29 |            |
|                     | -3011 Dec 02 j 03:22 | 0°♂       |            | evening set         | -3008 Jun 25 j 14:18 | 17°♂08'37 |            |
| desc. node          | -3011 Dec 19 j 08:21 | 21°♂29'38 |            | inferior conj       | -3008 Jul 01 j 08:16 | 13°♂45'42 | -5°42'39   |
|                     | -3011 Dec 26 j 04:09 | 0°♂       |            | minimum elong       | -3008 Jun 30 j 22:11 | 14°♂01'06 | 5°40'16    |
| morning set         | -3010 Jan 04 j 15:23 | 11°♂47'02 |            | min. Earth dist.    | -3008 Jul 01 j 15:21 | 13°♂34'52 | 0.28222 AU |
|                     | -3010 Jan 19 j 07:30 | 0°♂       |            | morning rise        | -3008 Jul 06 j 05:40 | 10°♂50'36 |            |
|                     | -3010 Feb 12 j 13:16 | 0°♂       |            | direct              | -3008 Jul 22 j 19:17 | 5°♂39'50  |            |
|                     |                      |           |            | greatest brilliancy | -3008 Aug 02 j 19:04 | 7°♂52'18  | -4.8m      |
| superior conj       | -3010 Feb 13 j 17:24 | 1°♂26'50  | -1°24'07   |                     | -3008 Sep 02 j 22:36 | 0°♂       |            |
| minimum elong       | -3010 Feb 13 j 17:15 | 1°♂26'21  | 1°24'12    | morning max el      | -3008 Sep 11 j 01:18 | 7°♂53'24  | 46°39'00   |
| max. Earth dist.    | -3010 Feb 16 j 11:21 | 4°♂50'21  | 1.72993 AU | asc. node           | -3008 Sep 26 j 02:02 | 23°♂43'52 |            |
|                     | -3010 Mar 08 j 21:23 | 0°♂       |            |                     | -3008 Oct 01 j 17:44 | 0°♂       |            |
| evening rise        | -3010 Mar 23 j 12:54 | 17°♂59'37 |            |                     | -3008 Oct 27 j 14:04 | 0°♂       |            |
|                     | -3010 Apr 02 j 07:55 | 0°♂       |            |                     | -3008 Nov 21 j 09:51 | 0°♂       |            |
| asc. node           | -3010 Apr 11 j 06:46 | 10°♂57'29 |            |                     | -3008 Dec 15 j 21:13 | 0°♂       |            |
|                     | -3010 Apr 26 j 21:01 | 0°♂       |            |                     | -3007 Jan 09 j 06:59 | 0°♂       |            |
|                     | -3010 May 21 j 12:58 | 0°♂       |            | desc. node          | -3007 Jan 15 j 20:18 | 8°♂03'02  |            |
|                     | -3010 Jun 15 j 08:50 | 0°♂       |            |                     | -3007 Feb 02 j 17:27 | 0°♂       |            |
|                     | -3010 Jul 10 j 11:07 | 0°♂       |            |                     | -3007 Feb 27 j 04:45 | 0°♂       |            |
| desc. node          | -3010 Jul 31 j 23:56 | 25°♂18'25 |            | morning set         | -3007 Mar 18 j 02:37 | 23°♂10'17 |            |
|                     | -3010 Aug 05 j 01:04 | 0°♂       |            |                     | -3007 Mar 23 j 16:22 | 0°♂       |            |
|                     | -3010 Aug 31 j 14:44 | 0°♂       |            |                     | -3007 Apr 17 j 03:39 | 0°♂       |            |
| evening max el      | -3010 Sep 19 j 03:29 | 19°♂34'01 | 47°29'50   | max. Earth dist.    | -3007 Apr 22 j 09:18 | 6°♂25'23  | 1.73722 AU |
|                     | -3010 Sep 29 j 21:36 | 0°♂       |            |                     |                      |           |            |
| greatest brilliancy | -3010 Oct 30 j 01:21 | 21°♂11'50 | -4.9m      | superior conj       | -3007 Apr 23 j 13:43 | 7°♂52'34  | -0°34'42   |
| retrograde          | -3010 Nov 09 j 02:15 | 23°♂08'44 |            | minimum elong       | -3007 Apr 23 j 20:05 | 8°♂12'09  | 0°34'24    |
| asc. node           | -3010 Nov 21 j 22:58 | 19°♂45'44 |            | asc. node           | -3007 May 08 j 18:51 | 26°♂33'41 |            |
| evening set         | -3010 Nov 23 j 13:56 | 18°♂54'45 |            |                     | -3007 May 11 j 14:00 | 0°♂       |            |
| min. Earth dist.    | -3010 Nov 28 j 23:33 | 15°♂43'05 | 0.26688 AU | evening rise        | -3007 May 29 j 09:00 | 21°♂53'23 |            |
| inferior conj       | -3010 Nov 29 j 18:24 | 15°♂13'51 | 1°58'42    |                     | -3007 Jun 04 j 23:01 | 0°♂       |            |
| minimum elong       | -3010 Nov 29 j 14:07 | 15°♂20'30 | 1°57'17    |                     | -3007 Jun 29 j 06:56 | 0°♂       |            |
| morning rise        | -3010 Dec 05 j 14:56 | 11°♂45'08 |            |                     | -3007 Jul 23 j 14:50 | 0°♂       |            |
| direct              | -3010 Dec 20 j 01:27 | 7°♂33'03  |            |                     | -3007 Aug 17 j 00:34 | 0°♂       |            |
| greatest brilliancy | -3010 Dec 29 j 09:42 | 9°♂12'22  | -4.9m      | desc. node          | -3007 Aug 28 j 12:11 | 14°♂03'17 |            |
|                     | -3009 Jan 29 j 01:35 | 0°♂       |            |                     | -3007 Sep 10 j 14:27 | 0°♂       |            |
| morning max el      | -3009 Feb 07 j 15:27 | 9°♂01'09  | 46°17'49   |                     | -3007 Oct 05 j 12:08 | 0°♂       |            |
|                     | -3009 Feb 28 j 00:25 | 0°♂       |            |                     | -3007 Oct 31 j 01:52 | 0°♂       |            |
| desc. node          | -3009 Mar 13 j 17:51 | 14°♂58'32 |            |                     | -3007 Nov 27 j 08:30 | 0°♂       |            |
|                     | -3009 Mar 27 j 03:09 | 0°♂       |            | evening max el      | -3007 Nov 29 j 14:58 | 2°♂20'00  | 47°00'22   |
|                     | -3009 Apr 22 j 04:01 | 0°♂       |            | asc. node           | -3007 Dec 19 j 10:45 | 20°♂49'19 |            |
|                     | -3009 May 17 j 14:00 | 0°♂       |            |                     | -3006 Jan 01 j 07:45 | 0°♂       |            |
|                     | -3009 Jun 11 j 12:44 | 0°♂       |            | greatest brilliancy | -3006 Jan 08 j 10:23 | 3°♂29'40  | -4.8m      |
| asc. node           | -3009 Jul 04 j 16:45 | 28°♂18'29 |            | retrograde          | -3006 Jan 19 j 07:53 | 5°♂43'54  |            |
|                     | -3009 Jul 06 j 01:44 | 0°♂       |            |                     | -3006 Feb 05 j 08:12 | 30°♂      |            |
|                     | -3009 Jul 30 j 06:26 | 0°♂       |            | evening set         | -3006 Feb 05 j 23:32 | 29°♂36'32 |            |
| morning set         | -3009 Aug 03 j 23:04 | 5°♂51'32  |            | min. Earth dist.    | -3006 Feb 08 j 22:32 | 27°♂44'29 | 0.28720 AU |
|                     | -3009 Aug 23 j 05:08 | 0°♂       |            | inferior conj       | -3006 Feb 09 j 12:50 | 27°♂21'37 | 8°22'07    |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                           |            |                     |                      |                                  |            |
|---------------------|----------------------|---------------------------|------------|---------------------|----------------------|----------------------------------|------------|
| minimum elong       | -3006 Feb 09 j 11:21 | 27° $\text{Z}$ 23'58      | 8°22'00    | superior conj       | -3004 Jun 29 j 10:00 | 11° $\text{II}$ 55'52            | 0°52'44    |
| morning rise        | -3006 Feb 12 j 23:29 | 25° $\text{Z}$ 11'31      |            | minimum elong       | -3004 Jun 29 j 01:33 | 11° $\text{II}$ 29'39            | 0°52'30    |
| direct              | -3006 Mar 02 j 19:19 | 19° $\text{Z}$ 07'27      |            |                     | -3004 Jul 13 j 22:45 | 0° $\text{G}$                    |            |
| greatest brilliancy | -3006 Mar 11 j 20:01 | 20° $\text{Z}$ 38'00      | -4.7m      | evening rise        | -3004 Aug 04 j 21:01 | 27° $\text{G}$ 22'22             |            |
|                     | -3006 Mar 29 j 05:09 | 0° $\approx$              |            |                     | -3004 Aug 06 j 23:28 | 0° $\Omega$                      |            |
| desc. node          | -3006 Apr 10 j 05:13 | 9° $\approx$ 32'38        |            |                     | -3004 Aug 30 j 23:08 | 0° $\text{M}$                    |            |
| morning max el      | -3006 Apr 20 j 14:45 | 19° $\approx$ 01'35       | 45°48'56   |                     | -3004 Sep 23 j 23:47 | 0° $\underline{\text{A}}$        |            |
|                     | -3006 May 01 j 17:38 | 0° $\text{X}$             |            | desc. node          | -3004 Sep 25 j 00:18 | 1° $\underline{\text{A}}$ 16'23  |            |
|                     | -3006 May 29 j 16:51 | 0° $\text{Y}$             |            |                     | -3004 Oct 18 j 03:01 | 0° $\text{M}$                    |            |
|                     | -3006 Jun 24 j 21:44 | 0° $\text{B}$             |            |                     | -3004 Nov 11 j 10:40 | 0° $\text{X}$                    |            |
|                     | -3006 Jul 20 j 03:00 | 0° $\text{II}$            |            |                     | -3004 Dec 06 j 02:38 | 0° $\text{Z}$                    |            |
| asc. node           | -3006 Aug 01 j 04:42 | 14° $\text{II}$ 39'49     |            |                     | -3004 Dec 31 j 11:52 | 0° $\approx$                     |            |
|                     | -3006 Aug 13 j 16:11 | 0° $\text{G}$             |            | asc. node           | -3003 Jan 15 j 22:37 | 17° $\approx$ 29'31              |            |
|                     | -3006 Sep 06 j 18:29 | 0° $\Omega$               |            |                     | -3003 Jan 27 j 12:06 | 0° $\text{X}$                    |            |
| greatest brilliancy | -3006 Sep 08 j 00:53 | 1° $\Omega$ 35'19         | -3.9m      | evening max el      | -3003 Feb 08 j 11:17 | 12° $\text{X}$ 10'42             | 45°37'35   |
|                     | -3006 Sep 30 j 14:45 | 0° $\text{M}$             |            |                     | -3003 Feb 28 j 17:09 | 0° $\text{Y}$                    |            |
| morning set         | -3006 Oct 16 j 16:21 | 20° $\text{M}$ 16'44      |            | greatest brilliancy | -3003 Mar 18 j 13:42 | 10° $\text{Y}$ 26'44             | -4.7m      |
|                     | -3006 Oct 24 j 09:15 | 0° $\underline{\text{A}}$ |            | retrograde          | -3003 Mar 29 j 06:58 | 12° $\text{Y}$ 32'04             |            |
|                     | -3006 Nov 17 j 04:54 | 0° $\text{M}$             |            | evening set         | -3003 Apr 14 j 04:37 | 7° $\text{Y}$ 41'27              |            |
| desc. node          | -3006 Nov 20 j 22:25 | 4° $\text{M}$ 41'12       |            | inferior conj       | -3003 Apr 19 j 18:45 | 4° $\text{Y}$ 18'07              | 3°57'13    |
|                     |                      |                           |            | minimum elong       | -3003 Apr 20 j 02:20 | 4° $\text{Y}$ 06'13              | 3°55'19    |
| superior conj       | -3006 Nov 27 j 13:24 | 13° $\text{M}$ 00'01      | -0°15'28   | min. Earth dist.    | -3003 Apr 20 j 09:04 | 3° $\text{Y}$ 55'38              | 0.29170 AU |
| minimum elong       | -3006 Nov 27 j 09:12 | 12° $\text{M}$ 46'50      | 0°15'19    | morning rise        | -3003 Apr 25 j 23:42 | 0° $\text{Y}$ 32'32              |            |
| behind sun begin    | -3006 Nov 26 j 23:38 | 12° $\text{M}$ 16'51      |            |                     | -3003 Apr 26 j 23:30 | 30° $\text{R}$ $\text{X}$        |            |
| behind sun end      | -3006 Nov 27 j 18:45 | 13° $\text{M}$ 16'48      |            | desc. node          | -3003 May 07 j 16:49 | 26° $\text{X}$ 11'17             |            |
| max. Earth dist.    | -3006 Dec 02 j 05:57 | 18° $\text{M}$ 52'49      | 1.71347 AU | direct              | -3003 May 11 j 12:51 | 25° $\text{X}$ 53'59             |            |
|                     | -3006 Dec 11 j 03:05 | 0° $\text{X}$             |            | greatest brilliancy | -3003 May 22 j 06:32 | 27° $\text{X}$ 57'02             | -4.7m      |
|                     | -3005 Jan 04 j 04:17 | 0° $\text{Z}$             |            |                     | -3003 May 27 j 01:01 | 0° $\text{Y}$                    |            |
| evening rise        | -3005 Jan 08 j 04:46 | 4° $\text{Z}$ 59'58       |            | morning max el      | -3003 Jun 29 j 14:44 | 25° $\text{Y}$ 58'55             | 46°00'01   |
|                     | -3005 Jan 28 j 09:02 | 0° $\approx$              |            |                     | -3003 Jul 03 j 17:21 | 0° $\text{B}$                    |            |
|                     | -3005 Feb 21 j 18:33 | 0° $\text{X}$             |            |                     | -3003 Jul 31 j 21:27 | 0° $\text{II}$                   |            |
| asc. node           | -3005 Mar 13 j 20:43 | 24° $\text{X}$ 27'24      |            |                     | -3003 Aug 26 j 18:21 | 0° $\text{G}$                    |            |
|                     | -3005 Mar 18 j 10:44 | 0° $\text{Y}$             |            | asc. node           | -3003 Aug 28 j 16:32 | 2° $\text{G}$ 17'38              |            |
|                     | -3005 Apr 12 j 12:06 | 0° $\text{B}$             |            |                     | -3003 Sep 20 j 12:38 | 0° $\Omega$                      |            |
|                     | -3005 May 08 j 02:32 | 0° $\text{II}$            |            |                     | -3003 Oct 14 j 17:12 | 0° $\text{M}$                    |            |
|                     | -3005 Jun 03 j 14:41 | 0° $\text{G}$             |            |                     | -3003 Nov 07 j 16:16 | 0° $\underline{\text{A}}$        |            |
|                     | -3005 Jul 02 j 02:22 | 0° $\Omega$               |            |                     | -3003 Dec 01 j 14:54 | 0° $\text{M}$                    |            |
| desc. node          | -3005 Jul 03 j 14:12 | 1° $\Omega$ 28'00         |            | desc. node          | -3003 Dec 18 j 10:31 | 21° $\text{M}$ 00'51             |            |
| evening max el      | -3005 Jul 05 j 05:11 | 3° $\Omega$ 02'51         | 46°14'48   |                     | -3003 Dec 25 j 15:30 | 0° $\text{X}$                    |            |
|                     | -3005 Aug 08 j 18:50 | 0° $\text{M}$             |            | morning set         | -3002 Jan 02 j 02:07 | 9° $\text{X}$ 15'58              |            |
| greatest brilliancy | -3005 Aug 14 j 20:31 | 2° $\text{M}$ 28'24       | -4.9m      |                     | -3002 Jan 18 j 18:41 | 0° $\text{Z}$                    |            |
| retrograde          | -3005 Aug 23 j 19:17 | 3° $\text{M}$ 56'58       |            |                     |                      |                                  |            |
|                     | -3005 Sep 07 j 02:43 | 30° $\text{R}$ $\Omega$   |            | superior conj       | -3002 Feb 11 j 07:54 | 29° $\text{Z}$ 09'17             | -1°24'02   |
| evening set         | -3005 Sep 10 j 06:20 | 28° $\Omega$ 15'07        |            | minimum elong       | -3002 Feb 11 j 06:54 | 29° $\text{Z}$ 06'11             | 1°24'07    |
| inferior conj       | -3005 Sep 13 j 12:56 | 26° $\Omega$ 17'26        | -8°16'31   |                     | -3002 Feb 12 j 00:19 | 0° $\approx$                     |            |
| minimum elong       | -3005 Sep 13 j 20:54 | 26° $\Omega$ 05'20        | 8°15'28    | max. Earth dist.    | -3002 Feb 14 j 02:55 | 2° $\approx$ 36'12               | 1.72943 AU |
| min. Earth dist.    | -3005 Sep 14 j 02:06 | 25° $\Omega$ 57'27        | 0.26849 AU |                     | -3002 Mar 08 j 08:23 | 0° $\text{X}$                    |            |
| morning rise        | -3005 Sep 17 j 11:17 | 23° $\Omega$ 56'33        |            | evening rise        | -3002 Mar 21 j 05:56 | 15° $\text{X}$ 50'52             |            |
| direct              | -3005 Oct 04 j 02:37 | 18° $\Omega$ 35'53        |            |                     | -3002 Apr 01 j 18:59 | 0° $\text{Y}$                    |            |
| greatest brilliancy | -3005 Oct 14 j 21:48 | 20° $\Omega$ 47'54        | -4.9m      | asc. node           | -3002 Apr 10 j 08:46 | 10° $\text{Y}$ 29'39             |            |
| asc. node           | -3005 Oct 24 j 13:24 | 25° $\Omega$ 51'24        |            |                     | -3002 Apr 26 j 08:16 | 0° $\text{B}$                    |            |
|                     | -3005 Oct 30 j 11:08 | 0° $\text{M}$             |            |                     | -3002 May 21 j 00:37 | 0° $\text{II}$                   |            |
| morning max el      | -3005 Nov 23 j 20:42 | 22° $\text{M}$ 10'59      | 46°51'37   |                     | -3002 Jun 14 j 21:05 | 0° $\text{G}$                    |            |
|                     | -3005 Dec 01 j 08:20 | 0° $\underline{\text{A}}$ |            |                     | -3002 Jul 10 j 00:22 | 0° $\Omega$                      |            |
|                     | -3005 Dec 28 j 06:57 | 0° $\text{M}$             |            | desc. node          | -3002 Jul 31 j 02:10 | 24° $\Omega$ 42'30               |            |
|                     | -3004 Jan 23 j 00:10 | 0° $\text{X}$             |            |                     | -3002 Aug 04 j 16:02 | 0° $\text{M}$                    |            |
| desc. node          | -3004 Feb 13 j 08:16 | 25° $\text{X}$ 18'42      |            |                     | -3002 Aug 31 j 09:12 | 0° $\underline{\text{A}}$        |            |
|                     | -3004 Feb 17 j 06:36 | 0° $\text{Z}$             |            | evening max el      | -3002 Sep 16 j 17:42 | 17° $\underline{\text{A}}$ 10'24 | 47°28'48   |
|                     | -3004 Mar 13 j 07:40 | 0° $\approx$              |            |                     | -3002 Sep 30 j 03:19 | 0° $\text{M}$                    |            |
|                     | -3004 Apr 07 j 04:46 | 0° $\text{X}$             |            | greatest brilliancy | -3002 Oct 27 j 15:16 | 18° $\text{M}$ 43'58             | -4.9m      |
|                     | -3004 May 01 j 21:58 | 0° $\text{Y}$             |            | retrograde          | -3002 Nov 06 j 16:05 | 20° $\text{M}$ 40'35             |            |
| morning set         | -3004 May 24 j 06:58 | 27° $\text{Y}$ 20'51      |            | evening set         | -3002 Nov 21 j 02:41 | 16° $\text{M}$ 27'12             |            |
|                     | -3004 May 26 j 10:50 | 0° $\text{B}$             |            | asc. node           | -3002 Nov 21 j 01:05 | 16° $\text{M}$ 29'23             |            |
| asc. node           | -3004 Jun 05 j 06:55 | 12° $\text{B}$ 05'42      |            | min. Earth dist.    | -3002 Nov 26 j 13:19 | 13° $\text{M}$ 14'21             | 0.26642 AU |
|                     | -3004 Jun 19 j 19:00 | 0° $\text{II}$            |            | inferior conj       | -3002 Nov 27 j 07:20 | 12° $\text{M}$ 46'30             | 1°35'31    |
| max. Earth dist.    | -3004 Jun 25 j 02:30 | 6° $\text{II}$ 34'54      | 1.72765 AU | minimum elong       | -3002 Nov 27 j 03:51 | 12° $\text{M}$ 51'53             | 1°34'22    |
|                     |                      |                           |            | morning rise        | -3002 Dec 03 j 05:40 | 9° $\text{M}$ 16'03              |            |



## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 81

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                         |            |                     |                      |                               |            |
|---------------------|----------------------|-------------------------|------------|---------------------|----------------------|-------------------------------|------------|
| direct              | -3002 Dec 17 j 14:20 | 5° $\mathbb{M}$ 06'27   |            |                     | -2999 Aug 16 j 12:33 | 0° $\mathbb{M}$               |            |
| greatest brilliancy | -3002 Dec 26 j 23:17 | 6° $\mathbb{M}$ 46'56   | -4.9m      | desc. node          | -2999 Aug 27 j 14:12 | 13° $\mathbb{M}$ 31'49        |            |
|                     | -3001 Jan 29 j 05:16 | 0° $\mathbb{A}$         |            |                     | -2999 Sep 10 j 03:09 | 0° $\mathbb{A}$               |            |
| morning max el      | -3001 Feb 05 j 06:17 | 6° $\mathbb{A}$ 42'56   | 46°19'12   |                     | -2999 Oct 05 j 01:54 | 0° $\mathbb{M}$               |            |
|                     | -3001 Feb 27 j 17:56 | 0° $\mathbb{B}$         |            |                     | -2999 Oct 30 j 17:39 | 0° $\mathbb{A}$               |            |
| desc. node          | -3001 Mar 12 j 19:54 | 14° $\mathbb{B}$ 20'56  |            |                     | -2999 Nov 27 j 05:33 | 0° $\mathbb{B}$               |            |
|                     | -3001 Mar 26 j 17:25 | 0° $\approx$            |            | evening max el      | -2999 Nov 27 j 06:19 | 0° $\mathbb{B}$ 02'00         | 47°02'58   |
|                     | -3001 Apr 21 j 16:43 | 0° $\mathbb{H}$         |            | asc. node           | -2999 Dec 18 j 12:57 | 19° $\mathbb{B}$ 43'32        |            |
|                     | -3001 May 17 j 01:51 | 0° $\mathbb{Y}$         |            |                     | -2998 Jan 03 j 04:23 | 0° $\approx$                  |            |
|                     | -3001 Jun 11 j 00:06 | 0° $\mathbb{B}$         |            | greatest brilliancy | -2998 Jan 06 j 03:49 | 1° $\approx$ 17'46            | -4.8m      |
| asc. node           | -3001 Jul 03 j 18:55 | 27° $\mathbb{B}$ 50'59  |            | retrograde          | -2998 Jan 17 j 00:15 | 3° $\approx$ 31'05            |            |
|                     | -3001 Jul 05 j 12:50 | 0° $\mathbb{II}$        |            |                     | -2998 Jan 30 j 03:07 | 30° $\mathbb{R}$ $\mathbb{B}$ |            |
|                     | -3001 Jul 29 j 17:26 | 0° $\mathbb{G}$         |            | evening set         | -2998 Feb 03 j 14:45 | 27° $\mathbb{B}$ 26'13        |            |
| morning set         | -3001 Aug 01 j 14:42 | 3° $\mathbb{G}$ 36'06   |            | min. Earth dist.    | -2998 Feb 06 j 13:50 | 25° $\mathbb{B}$ 33'58        | 0.28661 AU |
|                     | -3001 Aug 22 j 16:09 | 0° $\mathbb{Q}$         |            | inferior conj       | -2998 Feb 07 j 05:10 | 25° $\mathbb{B}$ 09'23        | 8°20'45    |
| max. Earth dist.    | -3001 Sep 07 j 07:48 | 19° $\mathbb{Q}$ 42'06  | 1.71137 AU | minimum elong       | -2998 Feb 07 j 02:59 | 25° $\mathbb{B}$ 12'53        | 8°20'35    |
|                     |                      |                         |            | morning rise        | -2998 Feb 10 j 15:32 | 22° $\mathbb{B}$ 59'32        |            |
| superior conj       | -3001 Sep 08 j 17:46 | 21° $\mathbb{Q}$ 29'08  | 1°20'02    | direct              | -2998 Feb 28 j 10:49 | 16° $\mathbb{B}$ 56'23        |            |
| minimum elong       | -3001 Sep 09 j 00:03 | 21° $\mathbb{Q}$ 48'56  | 1°20'00    | greatest brilliancy | -2998 Mar 09 j 10:32 | 18° $\mathbb{B}$ 25'50        | -4.7m      |
|                     | -3001 Sep 15 j 11:53 | 0° $\mathbb{M}$         |            |                     | -2998 Mar 29 j 19:46 | 0° $\approx$                  |            |
|                     | -3001 Oct 09 j 07:21 | 0° $\mathbb{A}$         |            | desc. node          | -2998 Apr 09 j 07:20 | 8° $\approx$ 37'18            |            |
| evening rise        | -3001 Oct 19 j 16:28 | 13° $\mathbb{A}$ 03'27  |            | morning max el      | -2998 Apr 18 j 05:27 | 16° $\approx$ 49'00           | 45°49'13   |
| desc. node          | -3001 Oct 23 j 12:27 | 17° $\mathbb{A}$ 52'23  |            |                     | -2998 May 01 j 12:11 | 0° $\mathbb{H}$               |            |
|                     | -3001 Nov 02 j 04:24 | 0° $\mathbb{M}$         |            |                     | -2998 May 29 j 07:13 | 0° $\mathbb{Y}$               |            |
|                     | -3001 Nov 26 j 04:07 | 0° $\mathbb{A}$         |            |                     | -2998 Jun 24 j 10:23 | 0° $\mathbb{B}$               |            |
|                     | -3001 Dec 20 j 07:46 | 0° $\mathbb{B}$         |            |                     | -2998 Jul 19 j 14:49 | 0° $\mathbb{II}$              |            |
|                     | -3000 Jan 13 j 17:48 | 0° $\approx$            |            | asc. node           | -2998 Jul 31 j 06:50 | 14° $\mathbb{II}$ 10'59       |            |
|                     | -3000 Feb 07 j 14:43 | 0° $\mathbb{H}$         |            |                     | -2998 Aug 13 j 03:34 | 0° $\mathbb{G}$               |            |
| asc. node           | -3000 Feb 13 j 10:37 | 6° $\mathbb{H}$ 55'07   |            |                     | -2998 Sep 06 j 05:40 | 0° $\mathbb{Q}$               |            |
|                     | -3000 Mar 04 j 06:19 | 0° $\mathbb{Y}$         |            | greatest brilliancy | -2998 Sep 11 j 20:23 | 7° $\mathbb{Q}$ 02'45         | -3.9m      |
|                     | -3000 Mar 31 j 08:39 | 0° $\mathbb{B}$         |            |                     | -2998 Sep 30 j 01:50 | 0° $\mathbb{M}$               |            |
| evening max el      | -3000 Apr 20 j 08:36 | 20° $\mathbb{B}$ 13'25  | 45°11'46   | morning set         | -2998 Oct 14 j 03:07 | 17° $\mathbb{M}$ 44'18        |            |
|                     | -3000 May 01 j 03:58 | 0° $\mathbb{II}$        |            |                     | -2998 Oct 23 j 20:18 | 0° $\mathbb{A}$               |            |
| greatest brilliancy | -3000 May 28 j 07:30 | 17° $\mathbb{II}$ 31'22 | -4.7m      |                     | -2998 Nov 16 j 15:55 | 0° $\mathbb{M}$               |            |
| desc. node          | -3000 Jun 04 j 04:37 | 19° $\mathbb{II}$ 12'32 |            | desc. node          | -2998 Nov 20 j 00:36 | 4° $\mathbb{M}$ 13'29         |            |
| retrograde          | -3000 Jun 07 j 17:35 | 19° $\mathbb{II}$ 26'31 |            |                     |                      |                               |            |
| evening set         | -3000 Jun 23 j 02:39 | 14° $\mathbb{II}$ 58'07 |            | superior conj       | -2998 Nov 24 j 22:29 | 10° $\mathbb{M}$ 23'28        | -0°11'30   |
| inferior conj       | -3000 Jun 28 j 23:06 | 11° $\mathbb{II}$ 31'21 | -5°26'11   | minimum elong       | -2998 Nov 24 j 19:19 | 10° $\mathbb{M}$ 13'34        | 0°11'25    |
| minimum elong       | -3000 Jun 28 j 13:13 | 11° $\mathbb{II}$ 46'28 | 5°23'47    | behind sun begin    | -2998 Nov 23 j 23:42 | 9° $\mathbb{M}$ 11'58         |            |
| min. Earth dist.    | -3000 Jun 29 j 06:15 | 11° $\mathbb{II}$ 20'23 | 0.28260 AU | behind sun end      | -2998 Nov 25 j 14:57 | 11° $\mathbb{M}$ 15'08        |            |
| morning rise        | -3000 Jul 03 j 23:23 | 8° $\mathbb{II}$ 31'44  |            | max. Earth dist.    | -2998 Nov 29 j 11:51 | 16° $\mathbb{M}$ 06'25        | 1.71296 AU |
| direct              | -3000 Jul 20 j 11:00 | 3° $\mathbb{II}$ 24'54  |            |                     | -2998 Dec 10 j 14:04 | 0° $\mathbb{A}$               |            |
| greatest brilliancy | -3000 Jul 31 j 09:54 | 5° $\mathbb{II}$ 36'13  | -4.8m      |                     | -2997 Jan 03 j 15:12 | 0° $\mathbb{B}$               |            |
|                     | -3000 Sep 02 j 23:57 | 0° $\mathbb{G}$         |            | evening rise        | -2997 Jan 05 j 16:27 | 2° $\mathbb{B}$ 33'09         |            |
| morning max el      | -3000 Sep 08 j 15:32 | 5° $\mathbb{G}$ 32'51   | 46°37'48   |                     | -2997 Jan 27 j 19:57 | 0° $\approx$                  |            |
| asc. node           | -3000 Sep 25 j 04:01 | 23° $\mathbb{G}$ 00'05  |            |                     | -2997 Feb 21 j 05:36 | 0° $\mathbb{H}$               |            |
|                     | -3000 Oct 01 j 10:37 | 0° $\mathbb{Q}$         |            | asc. node           | -2997 Mar 12 j 22:44 | 23° $\mathbb{H}$ 59'13        |            |
|                     | -3000 Oct 27 j 04:15 | 0° $\mathbb{M}$         |            |                     | -2997 Mar 17 j 22:09 | 0° $\mathbb{Y}$               |            |
|                     | -3000 Nov 20 j 22:45 | 0° $\mathbb{A}$         |            |                     | -2997 Apr 12 j 00:12 | 0° $\mathbb{B}$               |            |
|                     | -3000 Dec 15 j 09:21 | 0° $\mathbb{M}$         |            |                     | -2997 May 07 j 15:56 | 0° $\mathbb{II}$              |            |
|                     | -2999 Jan 08 j 18:37 | 0° $\mathbb{A}$         |            |                     | -2997 Jun 03 j 06:39 | 0° $\mathbb{G}$               |            |
| desc. node          | -2999 Jan 14 j 22:30 | 7° $\mathbb{A}$ 34'21   |            |                     | -2997 Jul 02 j 01:10 | 0° $\mathbb{Q}$               |            |
|                     | -2999 Feb 02 j 04:44 | 0° $\mathbb{B}$         |            | evening max el      | -2997 Jul 02 j 17:03 | 0° $\mathbb{Q}$ 38'28         | 46°11'45   |
|                     | -2999 Feb 26 j 15:46 | 0° $\approx$            |            | desc. node          | -2997 Jul 02 j 16:25 | 0° $\mathbb{Q}$ 36'56         |            |
| morning set         | -2999 Mar 15 j 19:41 | 21° $\approx$ 02'18     |            |                     | -2997 Aug 12 j 05:25 | 0° $\mathbb{M}$               |            |
|                     | -2999 Mar 23 j 03:11 | 0° $\mathbb{H}$         |            | greatest brilliancy | -2997 Aug 12 j 08:35 | 0° $\mathbb{M}$ 02'32         | -4.8m      |
|                     | -2999 Apr 16 j 14:21 | 0° $\mathbb{Y}$         |            | retrograde          | -2997 Aug 21 j 06:57 | 1° $\mathbb{M}$ 31'05         |            |
| max. Earth dist.    | -2999 Apr 20 j 07:19 | 4° $\mathbb{Y}$ 32'53   | 1.73723 AU |                     | -2997 Aug 30 j 00:58 | 30° $\mathbb{R}$ $\mathbb{Q}$ |            |
|                     |                      |                         |            | evening set         | -2997 Sep 07 j 21:11 | 25° $\mathbb{Q}$ 45'07        |            |
| superior conj       | -2999 Apr 21 j 08:15 | 5° $\mathbb{Y}$ 49'23   | -0°37'30   | inferior conj       | -2997 Sep 11 j 01:23 | 23° $\mathbb{Q}$ 51'11        | -8°24'53   |
| minimum elong       | -2999 Apr 21 j 15:02 | 6° $\mathbb{Y}$ 10'11   | 0°37'11    | minimum elong       | -2997 Sep 11 j 08:40 | 23° $\mathbb{Q}$ 40'08        | 8°24'01    |
| asc. node           | -2999 May 07 j 20:58 | 26° $\mathbb{Y}$ 07'22  |            | min. Earth dist.    | -2997 Sep 11 j 15:01 | 23° $\mathbb{Q}$ 30'30        | 0.26900 AU |
|                     | -2999 May 11 j 00:42 | 0° $\mathbb{B}$         |            | morning rise        | -2997 Sep 14 j 19:55 | 21° $\mathbb{Q}$ 35'52        |            |
| evening rise        | -2999 May 27 j 04:19 | 19° $\mathbb{B}$ 51'52  |            | direct              | -2997 Oct 01 j 15:10 | 16° $\mathbb{Q}$ 08'30        |            |
|                     | -2999 Jun 04 j 09:51 | 0° $\mathbb{II}$        |            | greatest brilliancy | -2997 Oct 12 j 12:08 | 18° $\mathbb{Q}$ 21'58        | -4.9m      |
|                     | -2999 Jun 28 j 18:01 | 0° $\mathbb{G}$         |            | asc. node           | -2997 Oct 23 j 15:37 | 24° $\mathbb{Q}$ 24'47        |            |
|                     | -2999 Jul 23 j 02:19 | 0° $\mathbb{Q}$         |            |                     | -2997 Oct 31 j 03:54 | 0° $\mathbb{M}$               |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                          |            |                     |                      |                          |            |
|---------------------|----------------------|--------------------------|------------|---------------------|----------------------|--------------------------|------------|
| morning max el      | -2997 Nov 21 j 10:00 | 19° $\mathbb{M}$ 44'01   | 46°52'10   |                     | -2994 Jun 14 j 09:10 | 0° $\mathfrak{C}$        |            |
|                     | -2997 Dec 01 j 04:22 | 0° $\mathfrak{L}$        |            |                     | -2994 Jul 09 j 13:33 | 0° $\mathcal{Q}$         |            |
|                     | -2997 Dec 27 j 22:27 | 0° $\mathbb{M}$          |            | desc. node          | -2994 Jul 30 j 04:07 | 24° $\mathcal{Q}$ 05'55  |            |
|                     | -2996 Jan 22 j 13:39 | 0° $\mathfrak{A}$        |            |                     | -2994 Aug 04 j 07:04 | 0° $\mathbb{M}$          |            |
| desc. node          | -2996 Feb 12 j 10:15 | 24° $\mathfrak{A}$ 47'32 |            |                     | -2994 Aug 31 j 04:03 | 0° $\mathfrak{L}$        |            |
|                     | -2996 Feb 16 j 18:55 | 0° $\mathfrak{Z}$        |            | evening max el      | -2994 Sep 14 j 08:53 | 14° $\mathfrak{L}$ 49'31 | 47°27'38   |
|                     | -2996 Mar 12 j 19:13 | 0° $\approx$             |            |                     | -2994 Sep 30 j 11:14 | 0° $\mathbb{M}$          |            |
|                     | -2996 Apr 06 j 15:51 | 0° $\mathfrak{H}$        |            | greatest brilliancy | -2994 Oct 25 j 05:05 | 16° $\mathbb{M}$ 16'03   | -4.9m      |
|                     | -2996 May 01 j 08:47 | 0° $\mathcal{Y}$         |            | retrograde          | -2994 Nov 04 j 05:57 | 18° $\mathbb{M}$ 12'05   |            |
| morning set         | -2996 May 22 j 01:55 | 25° $\mathcal{Y}$ 18'58  |            | evening set         | -2994 Nov 18 j 15:37 | 13° $\mathbb{M}$ 59'23   |            |
|                     | -2996 May 25 j 21:32 | 0° $\mathfrak{B}$        |            | asc. node           | -2994 Nov 20 j 03:16 | 13° $\mathbb{M}$ 09'26   |            |
| asc. node           | -2996 Jun 04 j 09:07 | 11° $\mathfrak{B}$ 39'39 |            | min. Earth dist.    | -2994 Nov 24 j 02:55 | 10° $\mathbb{M}$ 45'31   | 0.26595 AU |
|                     | -2996 Jun 19 j 05:40 | 0° $\mathbb{I}$          |            | inferior conj       | -2994 Nov 24 j 20:09 | 10° $\mathbb{M}$ 18'55   | 1°12'07    |
| max. Earth dist.    | -2996 Jun 22 j 23:22 | 4° $\mathbb{I}$ 37'42    | 1.72823 AU | minimum elong       | -2994 Nov 24 j 17:30 | 10° $\mathbb{M}$ 23'01   | 1°11'12    |
|                     |                      |                          |            | morning rise        | -2994 Nov 30 j 20:06 | 6° $\mathbb{M}$ 46'52    |            |
| superior conj       | -2996 Jun 27 j 04:12 | 9° $\mathbb{I}$ 50'14    | 0°50'14    | direct              | -2994 Dec 15 j 03:23 | 2° $\mathbb{M}$ 39'52    |            |
| minimum elong       | -2996 Jun 26 j 19:56 | 9° $\mathbb{I}$ 24'36    | 0°50'00    | greatest brilliancy | -2994 Dec 24 j 12:27 | 4° $\mathbb{M}$ 20'52    | -4.9m      |
|                     | -2996 Jul 13 j 09:30 | 0° $\mathfrak{C}$        |            |                     | -2993 Jan 29 j 07:21 | 0° $\mathfrak{A}$        |            |
| evening rise        | -2996 Aug 02 j 13:03 | 25° $\mathfrak{C}$ 08'31 |            | morning max el      | -2993 Feb 02 j 20:48 | 4° $\mathfrak{A}$ 24'02  | 46°20'30   |
|                     | -2996 Aug 06 j 10:21 | 0° $\mathcal{Q}$         |            |                     | -2993 Feb 27 j 11:00 | 0° $\mathfrak{Z}$        |            |
|                     | -2996 Aug 30 j 10:15 | 0° $\mathbb{M}$          |            | desc. node          | -2993 Mar 11 j 21:56 | 13° $\mathfrak{Z}$ 43'52 |            |
|                     | -2996 Sep 23 j 11:12 | 0° $\mathfrak{L}$        |            |                     | -2993 Mar 26 j 07:28 | 0° $\approx$             |            |
| desc. node          | -2996 Sep 24 j 02:22 | 0° $\mathfrak{L}$ 47'14  |            |                     | -2993 Apr 21 j 05:18 | 0° $\mathfrak{H}$        |            |
|                     | -2996 Oct 17 j 14:46 | 0° $\mathbb{M}$          |            |                     | -2993 May 16 j 13:35 | 0° $\mathcal{Y}$         |            |
|                     | -2996 Nov 10 j 22:52 | 0° $\mathfrak{A}$        |            |                     | -2993 Jun 10 j 11:21 | 0° $\mathfrak{B}$        |            |
|                     | -2996 Dec 05 j 15:35 | 0° $\mathfrak{Z}$        |            | asc. node           | -2993 Jul 02 j 21:03 | 27° $\mathfrak{B}$ 23'39 |            |
|                     | -2996 Dec 31 j 02:18 | 0° $\approx$             |            |                     | -2993 Jul 04 j 23:50 | 0° $\mathbb{I}$          |            |
| asc. node           | -2995 Jan 15 j 00:45 | 16° $\approx$ 50'53      |            |                     | -2993 Jul 29 j 04:22 | 0° $\mathfrak{C}$        |            |
|                     | -2995 Jan 27 j 06:22 | 0° $\mathfrak{H}$        |            | morning set         | -2993 Jul 30 j 06:36 | 1° $\mathfrak{C}$ 21'51  |            |
| evening max el      | -2995 Feb 06 j 02:51 | 9° $\mathfrak{H}$ 58'52  | 45°40'08   |                     | -2993 Aug 22 j 03:07 | 0° $\mathcal{Q}$         |            |
|                     | -2995 Mar 01 j 07:11 | 0° $\mathcal{Y}$         |            | max. Earth dist.    | -2993 Sep 04 j 12:58 | 16° $\mathcal{Q}$ 52'31  | 1.71177 AU |
| greatest brilliancy | -2995 Mar 16 j 05:50 | 8° $\mathcal{Y}$ 19'38   | -4.7m      |                     |                      |                          |            |
| retrograde          | -2995 Mar 27 j 00:28 | 10° $\mathcal{Y}$ 26'15  |            | superior conj       | -2993 Sep 06 j 06:58 | 19° $\mathcal{Q}$ 04'46  | 1°21'06    |
| evening set         | -2995 Apr 11 j 23:44 | 5° $\mathcal{Y}$ 31'48   |            | minimum elong       | -2993 Sep 06 j 12:26 | 19° $\mathcal{Q}$ 21'59  | 1°21'05    |
| inferior conj       | -2995 Apr 17 j 11:41 | 2° $\mathcal{Y}$ 11'25   | 4°13'39    |                     | -2993 Sep 14 j 22:58 | 0° $\mathbb{M}$          |            |
| minimum elong       | -2995 Apr 17 j 19:38 | 1° $\mathcal{Y}$ 58'57   | 4°11'42    |                     | -2993 Oct 08 j 18:32 | 0° $\mathfrak{L}$        |            |
| min. Earth dist.    | -2995 Apr 18 j 01:31 | 1° $\mathcal{Y}$ 49'41   | 0.29189 AU | evening rise        | -2993 Oct 17 j 01:33 | 10° $\mathfrak{L}$ 25'48 |            |
|                     | -2995 Apr 21 j 00:17 | 30° $\mathfrak{H}$       |            | desc. node          | -2993 Oct 22 j 14:39 | 17° $\mathfrak{L}$ 23'56 |            |
| morning rise        | -2995 Apr 23 j 15:15 | 28° $\mathfrak{H}$ 27'57 |            |                     | -2993 Nov 01 j 15:41 | 0° $\mathbb{M}$          |            |
| desc. node          | -2995 May 06 j 18:58 | 23° $\mathfrak{H}$ 54'00 |            |                     | -2993 Nov 25 j 15:32 | 0° $\mathfrak{A}$        |            |
| direct              | -2995 May 09 j 05:45 | 23° $\mathfrak{H}$ 46'57 |            |                     | -2993 Dec 19 j 19:23 | 0° $\mathfrak{Z}$        |            |
| greatest brilliancy | -2995 May 19 j 22:28 | 25° $\mathfrak{H}$ 49'29 | -4.7m      |                     | -2992 Jan 13 j 05:45 | 0° $\approx$             |            |
|                     | -2995 May 28 j 16:13 | 0° $\mathcal{Y}$         |            |                     | -2992 Feb 07 j 03:20 | 0° $\mathfrak{H}$        |            |
| morning max el      | -2995 Jun 27 j 08:07 | 23° $\mathcal{Y}$ 52'25  | 45°58'56   | asc. node           | -2992 Feb 12 j 12:40 | 6° $\mathfrak{H}$ 23'10  |            |
|                     | -2995 Jul 03 j 13:33 | 0° $\mathfrak{B}$        |            |                     | -2992 Mar 03 j 20:21 | 0° $\mathcal{Y}$         |            |
|                     | -2995 Jul 31 j 12:29 | 0° $\mathbb{I}$          |            |                     | -2992 Mar 31 j 02:02 | 0° $\mathfrak{B}$        |            |
|                     | -2995 Aug 26 j 07:29 | 0° $\mathfrak{C}$        |            | evening max el      | -2992 Apr 18 j 00:12 | 18° $\mathfrak{B}$ 02'00 | 45°11'09   |
| asc. node           | -2995 Aug 27 j 18:32 | 1° $\mathfrak{C}$ 44'36  |            |                     | -2992 May 01 j 10:10 | 0° $\mathbb{I}$          |            |
|                     | -2995 Sep 20 j 00:52 | 0° $\mathcal{Q}$         |            | greatest brilliancy | -2992 May 25 j 22:03 | 15° $\mathbb{I}$ 18'21   | -4.7m      |
|                     | -2995 Oct 14 j 04:58 | 0° $\mathbb{M}$          |            | desc. node          | -2992 Jun 03 j 06:47 | 17° $\mathbb{I}$ 08'40   |            |
|                     | -2995 Nov 07 j 03:45 | 0° $\mathfrak{L}$        |            | retrograde          | -2992 Jun 05 j 07:44 | 17° $\mathbb{I}$ 13'21   |            |
|                     | -2995 Dec 01 j 02:11 | 0° $\mathbb{M}$          |            | evening set         | -2992 Jun 20 j 15:24 | 12° $\mathbb{I}$ 48'01   |            |
| desc. node          | -2995 Dec 17 j 12:37 | 20° $\mathbb{M}$ 32'37   |            | inferior conj       | -2992 Jun 26 j 14:11 | 9° $\mathbb{I}$ 17'52    | -5°09'20   |
|                     | -2995 Dec 25 j 02:38 | 0° $\mathfrak{A}$        |            | minimum elong       | -2992 Jun 26 j 04:34 | 9° $\mathbb{I}$ 32'37    | 5°06'56    |
| morning set         | -2995 Dec 30 j 12:42 | 6° $\mathfrak{A}$ 45'01  |            | min. Earth dist.    | -2992 Jun 26 j 21:42 | 9° $\mathbb{I}$ 06'19    | 0.28295 AU |
|                     | -2994 Jan 18 j 05:40 | 0° $\mathfrak{Z}$        |            | morning rise        | -2992 Jul 01 j 17:15 | 6° $\mathbb{I}$ 13'52    |            |
|                     |                      |                          |            | direct              | -2992 Jul 18 j 02:26 | 1° $\mathbb{I}$ 10'47    |            |
| superior conj       | -2994 Feb 08 j 22:15 | 26° $\mathfrak{Z}$ 51'42 | -1°23'48   | greatest brilliancy | -2992 Jul 29 j 01:24 | 3° $\mathbb{I}$ 21'31    | -4.8m      |
| minimum elong       | -2994 Feb 08 j 20:24 | 26° $\mathfrak{Z}$ 46'01 | 1°23'53    |                     | -2992 Sep 03 j 00:03 | 0° $\mathfrak{C}$        |            |
|                     | -2994 Feb 11 j 11:12 | 0° $\approx$             |            | morning max el      | -2992 Sep 06 j 05:01 | 3° $\mathfrak{C}$ 10'34  | 46°36'27   |
| max. Earth dist.    | -2994 Feb 11 j 18:48 | 0° $\approx$ 23'30       | 1.72892 AU | asc. node           | -2992 Sep 24 j 06:17 | 22° $\mathfrak{C}$ 17'35 |            |
|                     | -2994 Mar 07 j 19:12 | 0° $\mathfrak{H}$        |            |                     | -2992 Oct 01 j 03:16 | 0° $\mathcal{Q}$         |            |
| evening rise        | -2994 Mar 18 j 23:01 | 13° $\mathfrak{H}$ 42'52 |            |                     | -2992 Oct 26 j 18:27 | 0° $\mathbb{M}$          |            |
|                     | -2994 Apr 01 j 05:49 | 0° $\mathcal{Y}$         |            |                     | -2992 Nov 20 j 11:46 | 0° $\mathfrak{L}$        |            |
| asc. node           | -2994 Apr 09 j 10:59 | 10° $\mathcal{Y}$ 03'08  |            |                     | -2992 Dec 14 j 21:41 | 0° $\mathbb{M}$          |            |
|                     | -2994 Apr 25 j 19:18 | 0° $\mathfrak{B}$        |            |                     | -2991 Jan 08 j 06:28 | 0° $\mathfrak{A}$        |            |
|                     | -2994 May 20 j 12:01 | 0° $\mathbb{I}$          |            | desc. node          | -2991 Jan 14 j 00:32 | 7° $\mathfrak{A}$ 04'34  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2991 Feb 01 j 16:13 | 0°♁       |            | desc. node          | -2989 Jul 01 j 18:26 | 29°♁43'12 |            |
|                     | -2991 Feb 26 j 02:58 | 0°♁       |            |                     | -2989 Jul 02 j 01:29 | 0°♁       |            |
| morning set         | -2991 Mar 13 j 12:25 | 18°♁52'36 |            | greatest brilliancy | -2989 Aug 09 j 20:05 | 27°♁35'22 | -4.8m      |
|                     | -2991 Mar 22 j 14:11 | 0°♁       |            | retrograde          | -2989 Aug 18 j 19:15 | 29°♁04'38 |            |
|                     | -2991 Apr 16 j 01:16 | 0°♁       |            | evening set         | -2989 Sep 05 j 11:47 | 23°♁14'50 |            |
| max. Earth dist.    | -2991 Apr 18 j 03:45 | 2°♁34'51  | 1.73721 AU | inferior conj       | -2989 Sep 08 j 13:50 | 21°♁24'14 | -8°32'14   |
|                     |                      |           |            | minimum elong       | -2989 Sep 08 j 20:22 | 21°♁14'21 | 8°31'33    |
| superior conj       | -2991 Apr 19 j 02:45 | 3°♁45'22  | -0°40'14   | min. Earth dist.    | -2989 Sep 09 j 03:35 | 21°♁03'27 | 0.26948 AU |
| minimum elong       | -2991 Apr 19 j 09:55 | 4°♁07'20  | 0°39'55    | morning rise        | -2989 Sep 12 j 04:45 | 19°♁14'26 |            |
| asc. node           | -2991 May 06 j 23:10 | 25°♁40'32 |            | direct              | -2989 Sep 29 j 04:14 | 13°♁40'35 |            |
|                     | -2991 May 10 j 11:38 | 0°♁       |            | greatest brilliancy | -2989 Oct 10 j 02:00 | 15°♁55'06 | -4.9m      |
| evening rise        | -2991 May 24 j 23:43 | 17°♁50'00 |            | asc. node           | -2989 Oct 22 j 17:45 | 23°♁00'29 |            |
|                     | -2991 Jun 03 j 20:54 | 0°♁       |            |                     | -2989 Oct 31 j 16:42 | 0°♁       |            |
|                     | -2991 Jun 28 j 05:20 | 0°♁       |            | morning max el      | -2989 Nov 19 j 00:07 | 17°♁18'35 | 46°52'38   |
|                     | -2991 Jul 22 j 13:59 | 0°♁       |            |                     | -2989 Dec 01 j 00:02 | 0°♁       |            |
| desc. node          | -2991 Aug 16 j 00:43 | 0°♁       |            |                     | -2989 Dec 27 j 13:59 | 0°♁       |            |
|                     | -2991 Aug 26 j 16:19 | 13°♁00'12 |            |                     | -2988 Jan 22 j 03:21 | 0°♁       |            |
|                     | -2991 Sep 09 j 16:04 | 0°♁       |            | desc. node          | -2988 Feb 11 j 12:20 | 24°♁15'33 |            |
|                     | -2991 Oct 04 j 16:02 | 0°♁       |            |                     | -2988 Feb 16 j 07:33 | 0°♁       |            |
|                     | -2991 Oct 30 j 10:02 | 0°♁       |            |                     | -2988 Mar 12 j 07:11 | 0°♁       |            |
| evening max el      | -2991 Nov 24 j 20:50 | 27°♁40'20 | 47°05'21   |                     | -2988 Apr 06 j 03:22 | 0°♁       |            |
|                     | -2991 Nov 27 j 03:54 | 0°♁       |            |                     | -2988 Apr 30 j 20:00 | 0°♁       |            |
| asc. node           | -2991 Dec 17 j 15:03 | 18°♁34'12 |            | morning set         | -2988 May 19 j 20:33 | 23°♁14'57 |            |
| greatest brilliancy | -2990 Jan 03 j 21:11 | 29°♁03'30 | -4.8m      |                     | -2988 May 25 j 08:36 | 0°♁       |            |
|                     | -2990 Jan 06 j 14:08 | 0°♁       |            | asc. node           | -2988 Jun 03 j 11:08 | 11°♁11'54 |            |
| retrograde          | -2990 Jan 14 j 16:07 | 1°♁15'54  |            |                     | -2988 Jun 18 j 16:43 | 0°♁       |            |
|                     | -2990 Jan 22 j 11:31 | 30°♁3     |            | max. Earth dist.    | -2988 Jun 20 j 20:17 | 2°♁39'34  | 1.72877 AU |
| evening set         | -2990 Feb 01 j 05:17 | 25°♁13'55 |            |                     |                      |           |            |
| min. Earth dist.    | -2990 Feb 04 j 05:06 | 23°♁20'38 | 0.28602 AU | superior conj       | -2988 Jun 24 j 22:09 | 7°♁42'45  | 0°47'40    |
| inferior conj       | -2990 Feb 04 j 21:12 | 22°♁54'50 | 8°18'33    | minimum elong       | -2988 Jun 24 j 14:08 | 7°♁17'54  | 0°47'26    |
| minimum elong       | -2990 Feb 04 j 18:16 | 22°♁59'31 | 8°18'21    |                     | -2988 Jul 12 j 20:38 | 0°♁       |            |
| morning rise        | -2990 Feb 08 j 07:34 | 20°♁44'51 |            | evening rise        | -2988 Jul 31 j 05:07 | 22°♁53'38 |            |
| direct              | -2990 Feb 26 j 01:34 | 14°♁42'48 |            |                     | -2988 Aug 05 j 21:39 | 0°♁       |            |
| greatest brilliancy | -2990 Mar 07 j 01:18 | 16°♁11'57 | -4.7m      |                     | -2988 Aug 29 j 21:46 | 0°♁       |            |
|                     | -2990 Mar 30 j 07:24 | 0°♁       |            |                     | -2988 Sep 22 j 22:58 | 0°♁       |            |
| desc. node          | -2990 Apr 08 j 09:35 | 7°♁42'10  |            | desc. node          | -2988 Sep 23 j 04:33 | 0°♁17'24  |            |
| morning max el      | -2990 Apr 15 j 19:48 | 14°♁34'08 | 45°49'41   |                     | -2988 Oct 17 j 02:50 | 0°♁       |            |
|                     | -2990 May 01 j 06:43 | 0°♁       |            |                     | -2988 Nov 10 j 11:22 | 0°♁       |            |
|                     | -2990 May 28 j 21:48 | 0°♁       |            |                     | -2988 Dec 05 j 04:52 | 0°♁       |            |
|                     | -2990 Jun 23 j 23:19 | 0°♁       |            |                     | -2988 Dec 30 j 17:12 | 0°♁       |            |
|                     | -2990 Jul 19 j 02:55 | 0°♁       |            | asc. node           | -2987 Jan 14 j 02:46 | 16°♁10'38 |            |
| asc. node           | -2990 Jul 30 j 08:51 | 13°♁41'00 |            |                     | -2987 Jan 27 j 01:31 | 0°♁       |            |
|                     | -2990 Aug 12 j 15:13 | 0°♁       |            | evening max el      | -2987 Feb 03 j 19:08 | 7°♁47'38  | 45°42'28   |
|                     | -2990 Sep 05 j 17:04 | 0°♁       |            |                     | -2987 Mar 02 j 03:05 | 0°♁       |            |
| greatest brilliancy | -2990 Sep 13 j 15:02 | 9°♁56'29  | -3.9m      | greatest brilliancy | -2987 Mar 13 j 21:57 | 6°♁10'54  | -4.7m      |
|                     | -2990 Sep 29 j 13:08 | 0°♁       |            | retrograde          | -2987 Mar 24 j 17:45 | 8°♁18'21  |            |
| morning set         | -2990 Oct 11 j 14:19 | 15°♁12'29 |            | evening set         | -2987 Apr 09 j 18:47 | 3°♁20'15  |            |
|                     | -2990 Oct 23 j 07:34 | 0°♁       |            | inferior conj       | -2987 Apr 15 j 04:26 | 0°♁02'47  | 4°29'47    |
|                     | -2990 Nov 16 j 03:12 | 0°♁       |            | minimum elong       | -2987 Apr 15 j 12:41 | 29°♁49'49 | 4°27'49    |
| desc. node          | -2990 Nov 19 j 02:42 | 3°♁44'39  |            |                     | -2987 Apr 15 j 06:13 | 30°♁      |            |
|                     |                      |           |            | min. Earth dist.    | -2987 Apr 15 j 17:37 | 29°♁42'03 | 0.29207 AU |
| superior conj       | -2990 Nov 22 j 07:33 | 7°♁45'56  | -0°07'32   | morning rise        | -2987 Apr 21 j 06:26 | 26°♁21'35 |            |
| minimum elong       | -2990 Nov 22 j 05:28 | 7°♁39'23  | 0°07'29    | desc. node          | -2987 May 05 j 21:03 | 21°♁39'30 |            |
| behind sun begin    | -2990 Nov 21 j 05:07 | 6°♁22'57  |            | direct              | -2987 May 06 j 22:51 | 21°♁38'08 |            |
| behind sun end      | -2990 Nov 23 j 05:49 | 8°♁55'49  |            | greatest brilliancy | -2987 May 17 j 13:43 | 23°♁39'28 | -4.7m      |
| max. Earth dist.    | -2990 Nov 26 j 15:28 | 13°♁11'55 | 1.71256 AU |                     | -2987 May 29 j 20:25 | 0°♁       |            |
|                     | -2990 Dec 10 j 01:21 | 0°♁       |            | morning max el      | -2987 Jun 25 j 01:17 | 21°♁44'14 | 45°57'52   |
| evening rise        | -2989 Jan 03 j 03:42 | 0°♁03'46  |            |                     | -2987 Jul 03 j 09:37 | 0°♁       |            |
|                     | -2989 Jan 03 j 02:30 | 0°♁       |            |                     | -2987 Jul 31 j 03:43 | 0°♁       |            |
|                     | -2989 Jan 27 j 07:17 | 0°♁       |            |                     | -2987 Aug 25 j 20:53 | 0°♁       |            |
|                     | -2989 Feb 20 j 17:05 | 0°♁       |            | asc. node           | -2987 Aug 26 j 20:46 | 1°♁11'26  |            |
| asc. node           | -2989 Mar 12 j 00:55 | 23°♁30'16 |            |                     | -2987 Sep 19 j 13:22 | 0°♁       |            |
|                     | -2989 Mar 17 j 10:00 | 0°♁       |            |                     | -2987 Oct 13 j 17:00 | 0°♁       |            |
|                     | -2989 Apr 11 j 12:47 | 0°♁       |            |                     | -2987 Nov 06 j 15:30 | 0°♁       |            |
|                     | -2989 May 07 j 05:52 | 0°♁       |            |                     | -2987 Nov 30 j 13:42 | 0°♁       |            |
|                     | -2989 Jun 02 j 23:21 | 0°♁       |            | desc. node          | -2987 Dec 16 j 14:38 | 20°♁03'25 |            |
| evening max el      | -2989 Jun 30 j 05:35 | 28°♁14'45 | 46°08'50   |                     | -2987 Dec 24 j 13:57 | 0°♁       |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 84

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| morning set         | -2987 Dec 27 j 23:39 | 4°♌14'32  |            | min. Earth dist.    | -2984 Jun 24 j 13:28 | 6°♊51'54  | 0.28335 AU |
|                     | -2986 Jan 17 j 16:49 | 0°♌       |            | morning rise        | -2984 Jun 29 j 11:07 | 3°♊56'13  |            |
|                     |                      |           |            |                     | -2984 Jul 08 j 09:30 | 30°♌      |            |
| superior conj       | -2986 Feb 06 j 12:41 | 24°♌33'42 | -1°23'26   | direct              | -2984 Jul 15 j 17:33 | 28°♌56'27 |            |
| minimum elong       | -2986 Feb 06 j 10:00 | 24°♌25'23 | 1°23'31    |                     | -2984 Jul 23 j 07:06 | 0°♊       |            |
| max. Earth dist.    | -2986 Feb 09 j 13:13 | 28°♌17'54 | 1.72845 AU | greatest brilliancy | -2984 Jul 26 j 17:43 | 1°♊07'37  | -4.8m      |
|                     | -2986 Feb 10 j 22:16 | 0°♌       |            |                     | -2984 Sep 02 j 23:14 | 0°♌       |            |
|                     | -2986 Mar 07 j 06:15 | 0°♌       |            | morning max el      | -2984 Sep 03 j 18:29 | 0°♌48'00  | 46°35'11   |
| evening rise        | -2986 Mar 16 j 16:04 | 11°♌33'55 |            | asc. node           | -2984 Sep 23 j 08:25 | 21°♌35'01 |            |
|                     | -2986 Mar 31 j 16:58 | 0°♌       |            |                     | -2984 Sep 30 j 19:41 | 0°♌       |            |
| asc. node           | -2986 Apr 08 j 13:06 | 9°♌35'23  |            |                     | -2984 Oct 26 j 08:32 | 0°♌       |            |
|                     | -2986 Apr 25 j 06:39 | 0°♌       |            |                     | -2984 Nov 20 j 00:42 | 0°♌       |            |
|                     | -2986 May 19 j 23:47 | 0°♊       |            |                     | -2984 Dec 14 j 09:56 | 0°♌       |            |
|                     | -2986 Jun 13 j 21:38 | 0°♌       |            |                     | -2983 Jan 07 j 18:16 | 0°♌       |            |
|                     | -2986 Jul 09 j 03:09 | 0°♌       |            | desc. node          | -2983 Jan 13 j 02:36 | 6°♌34'59  |            |
| desc. node          | -2986 Jul 29 j 06:15 | 23°♌28'40 |            |                     | -2983 Feb 01 j 03:38 | 0°♌       |            |
|                     | -2986 Aug 03 j 22:37 | 0°♌       |            |                     | -2983 Feb 25 j 14:05 | 0°♌       |            |
|                     | -2986 Aug 30 j 23:44 | 0°♌       |            | morning set         | -2983 Mar 11 j 05:18 | 16°♌43'35 |            |
| evening max el      | -2986 Sep 12 j 00:08 | 12°♌27'54 | 47°26'16   |                     | -2983 Mar 22 j 01:05 | 0°♌       |            |
|                     | -2986 Sep 30 j 22:20 | 0°♌       |            |                     | -2983 Apr 15 j 12:02 | 0°♌       |            |
| greatest brilliancy | -2986 Oct 22 j 19:18 | 13°♌47'42 | -4.9m      | max. Earth dist.    | -2983 Apr 16 j 00:30 | 0°♌38'13  | 1.73719 AU |
| retrograde          | -2986 Nov 01 j 19:25 | 15°♌42'21 |            |                     |                      |           |            |
| evening set         | -2986 Nov 16 j 04:44 | 11°♌30'27 |            | superior conj       | -2983 Apr 16 j 21:32 | 1°♌42'44  | -0°42'53   |
| asc. node           | -2986 Nov 19 j 05:22 | 9°♌46'02  |            | minimum elong       | -2983 Apr 17 j 05:03 | 2°♌05'47  | 0°42'35    |
| min. Earth dist.    | -2986 Nov 21 j 16:45 | 8°♌15'22  | 0.26547 AU | asc. node           | -2983 May 06 j 01:11 | 25°♌13'34 |            |
| inferior conj       | -2986 Nov 22 j 08:53 | 7°♌50'27  | 0°48'25    |                     | -2983 May 09 j 22:25 | 0°♌       |            |
| minimum elong       | -2986 Nov 22 j 07:05 | 7°♌53'14  | 0°47'46    | evening rise        | -2983 May 22 j 19:23 | 15°♌49'28 |            |
| morning rise        | -2986 Nov 28 j 10:12 | 4°♌16'46  |            |                     | -2983 Jun 03 j 07:52 | 0°♊       |            |
| direct              | -2986 Dec 12 j 16:14 | 0°♌12'30  |            |                     | -2983 Jun 27 j 16:34 | 0°♌       |            |
| greatest brilliancy | -2986 Dec 22 j 01:47 | 1°♌54'03  | -4.9m      |                     | -2983 Jul 22 j 01:37 | 0°♌       |            |
|                     | -2985 Jan 29 j 08:14 | 0°♌       |            |                     | -2983 Aug 15 j 12:54 | 0°♌       |            |
| morning max el      | -2985 Jan 31 j 10:30 | 2°♌02'35  | 46°21'56   | desc. node          | -2983 Aug 25 j 18:28 | 12°♌28'43 |            |
|                     | -2985 Feb 27 j 03:49 | 0°♌       |            |                     | -2983 Sep 09 j 05:02 | 0°♌       |            |
| desc. node          | -2985 Mar 11 j 00:12 | 13°♌07'33 |            |                     | -2983 Oct 04 j 06:15 | 0°♌       |            |
|                     | -2985 Mar 25 j 21:27 | 0°♌       |            |                     | -2983 Oct 30 j 02:36 | 0°♌       |            |
|                     | -2985 Apr 20 j 17:55 | 0°♌       |            | evening max el      | -2983 Nov 22 j 11:04 | 25°♌18'14 | 47°07'48   |
|                     | -2985 May 16 j 01:26 | 0°♌       |            |                     | -2983 Nov 27 j 03:03 | 0°♌       |            |
|                     | -2985 Jun 09 j 22:46 | 0°♌       |            | asc. node           | -2983 Dec 16 j 17:08 | 17°♌23'15 |            |
| asc. node           | -2985 Jul 01 j 23:06 | 26°♌55'30 |            | greatest brilliancy | -2982 Jan 01 j 14:04 | 26°♌48'47 | -4.9m      |
|                     | -2985 Jul 04 j 11:02 | 0°♊       |            | retrograde          | -2982 Jan 12 j 08:08 | 29°♌01'05 |            |
| morning set         | -2985 Jul 27 j 22:22 | 29°♊06'40 |            | evening set         | -2982 Jan 29 j 19:30 | 23°♌02'03 |            |
|                     | -2985 Jul 28 j 15:28 | 0°♌       |            | min. Earth dist.    | -2982 Feb 01 j 20:19 | 21°♌07'31 | 0.28539 AU |
|                     | -2985 Aug 21 j 14:15 | 0°♌       |            | inferior conj       | -2982 Feb 02 j 13:12 | 20°♌40'31 | 8°15'40    |
| max. Earth dist.    | -2985 Sep 01 j 17:28 | 14°♌00'30 | 1.71220 AU | minimum elong       | -2982 Feb 02 j 09:33 | 20°♌46'20 | 8°15'22    |
|                     |                      |           |            | morning rise        | -2982 Feb 05 j 23:53 | 18°♌30'09 |            |
| superior conj       | -2985 Sep 03 j 20:11 | 16°♌40'08 | 1°21'59    | direct              | -2982 Feb 23 j 16:05 | 12°♌29'20 |            |
| minimum elong       | -2985 Sep 04 j 00:50 | 16°♌54'45 | 1°22'01    | greatest brilliancy | -2982 Mar 04 j 16:12 | 13°♌58'40 | -4.8m      |
|                     | -2985 Sep 14 j 10:10 | 0°♌       |            |                     | -2982 Mar 30 j 15:42 | 0°♌       |            |
|                     | -2985 Oct 08 j 05:51 | 0°♌       |            | desc. node          | -2982 Apr 07 j 11:34 | 6°♌48'19  |            |
| evening rise        | -2985 Oct 14 j 10:39 | 7°♌47'49  |            | morning max el      | -2982 Apr 13 j 10:53 | 12°♌21'46 | 45°50'23   |
| desc. node          | -2985 Oct 21 j 16:41 | 16°♌54'32 |            |                     | -2982 May 01 j 00:29 | 0°♌       |            |
|                     | -2985 Nov 01 j 03:07 | 0°♌       |            |                     | -2982 May 28 j 11:55 | 0°♌       |            |
|                     | -2985 Nov 25 j 03:06 | 0°♌       |            |                     | -2982 Jun 23 j 11:52 | 0°♌       |            |
|                     | -2985 Dec 19 j 07:07 | 0°♌       |            |                     | -2982 Jul 18 j 14:43 | 0°♊       |            |
|                     | -2984 Jan 12 j 17:47 | 0°♌       |            | asc. node           | -2982 Jul 29 j 11:05 | 13°♊12'22 |            |
|                     | -2984 Feb 06 j 16:00 | 0°♌       |            |                     | -2982 Aug 12 j 02:39 | 0°♌       |            |
| asc. node           | -2984 Feb 11 j 14:54 | 5°♌51'43  |            |                     | -2982 Sep 05 j 04:20 | 0°♌       |            |
|                     | -2984 Mar 03 j 10:28 | 0°♌       |            | greatest brilliancy | -2982 Sep 14 j 18:55 | 12°♌04'19 | -3.9m      |
|                     | -2984 Mar 30 j 19:46 | 0°♌       |            |                     | -2982 Sep 29 j 00:19 | 0°♌       |            |
| evening max el      | -2984 Apr 15 j 14:56 | 15°♌48'37 | 45°10'29   | morning set         | -2982 Oct 09 j 01:22 | 12°♌40'33 |            |
|                     | -2984 May 01 j 18:45 | 0°♊       |            |                     | -2982 Oct 22 j 18:44 | 0°♌       |            |
| greatest brilliancy | -2984 May 23 j 12:35 | 13°♊05'15 | -4.7m      |                     | -2982 Nov 15 j 14:21 | 0°♌       |            |
| desc. node          | -2984 Jun 02 j 08:48 | 15°♊00'02 |            | desc. node          | -2982 Nov 18 j 04:43 | 3°♌16'00  |            |
| retrograde          | -2984 Jun 02 j 21:54 | 15°♊00'23 |            |                     |                      |           |            |
| evening set         | -2984 Jun 18 j 04:19 | 10°♊37'30 |            | superior conj       | -2982 Nov 19 j 16:16 | 5°♌07'41  | -0°03'30   |
| inferior conj       | -2984 Jun 24 j 05:19 | 7°♊04'25  | -4°52'02   | minimum elong       | -2982 Nov 19 j 15:16 | 5°♌04'34  | 0°03'30    |
| minimum elong       | -2984 Jun 23 j 20:00 | 7°♊18'43  | 4°49'39    | behind sun begin    | -2982 Nov 18 j 12:40 | 3°♌40'58  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| behind sun end      | -2982 Nov 20 j 17:53 | 6°♌28'09  |            | greatest brilliancy | -2979 May 15 j 04:43 | 21°♋30'16 | -4.7m      |
| max. Earth dist.    | -2982 Nov 23 j 19:27 | 10°♌19'04 | 1.71217 AU |                     | -2979 May 30 j 16:22 | 0°♑       |            |
|                     | -2982 Dec 09 j 12:28 | 0°♊       |            | morning max el      | -2979 Jun 22 j 17:53 | 19°♑35'59 | 45°56'56   |
| evening rise        | -2982 Dec 31 j 14:45 | 27°♊34'22 |            |                     | -2979 Jul 03 j 04:37 | 0°♉       |            |
|                     | -2981 Jan 02 j 13:35 | 0°♊       |            |                     | -2979 Jul 30 j 18:16 | 0°♊       |            |
|                     | -2981 Jan 26 j 18:24 | 0°♋       |            |                     | -2979 Aug 25 j 09:42 | 0°♋       |            |
|                     | -2981 Feb 20 j 04:22 | 0°♋       |            | asc. node           | -2979 Aug 25 j 22:52 | 0°♌39'27  |            |
| asc. node           | -2981 Mar 11 j 03:03 | 23°♋01'50 |            |                     | -2979 Sep 19 j 01:23 | 0°♌       |            |
|                     | -2981 Mar 16 j 21:38 | 0°♑       |            |                     | -2979 Oct 13 j 04:37 | 0°♍       |            |
|                     | -2981 Apr 11 j 01:07 | 0°♉       |            |                     | -2979 Nov 06 j 02:54 | 0°♎       |            |
|                     | -2981 May 06 j 19:33 | 0°♊       |            |                     | -2979 Nov 30 j 00:56 | 0°♏       |            |
|                     | -2981 Jun 02 j 15:55 | 0°♋       |            | desc. node          | -2979 Dec 15 j 16:48 | 19°♏35'23 |            |
| evening max el      | -2981 Jun 27 j 19:02 | 25°♋54'47 | 46°05'53   |                     | -2979 Dec 24 j 01:02 | 0°♊       |            |
| desc. node          | -2981 Jun 30 j 20:33 | 28°♋49'57 |            | morning set         | -2979 Dec 25 j 10:00 | 1°♊42'43  |            |
|                     | -2981 Jul 02 j 02:27 | 0°♌       |            |                     | -2978 Jan 17 j 03:47 | 0°♊       |            |
| greatest brilliancy | -2981 Aug 07 j 06:45 | 25°♌08'44 | -4.8m      |                     |                      |           |            |
| retrograde          | -2981 Aug 16 j 07:50 | 26°♌39'19 |            | superior conj       | -2978 Feb 04 j 02:22 | 22°♊13'56 | -1°22'55   |
| evening set         | -2981 Sep 03 j 02:06 | 20°♌46'04 |            | minimum elong       | -2978 Feb 03 j 22:49 | 22°♊02'56 | 1°22'58    |
| inferior conj       | -2981 Sep 06 j 02:19 | 18°♌58'13 | -8°38'35   | max. Earth dist.    | -2978 Feb 07 j 07:50 | 26°♊13'30 | 1.72792 AU |
| minimum elong       | -2981 Sep 06 j 08:03 | 18°♌49'33 | 8°38'02    |                     | -2978 Feb 10 j 09:07 | 0°♋       |            |
| min. Earth dist.    | -2981 Sep 06 j 15:44 | 18°♌37'57 | 0.27005 AU |                     | -2978 Mar 06 j 17:03 | 0°♋       |            |
| morning rise        | -2981 Sep 09 j 13:49 | 16°♌53'34 |            | evening rise        | -2978 Mar 14 j 08:32 | 9°♋23'55  |            |
| direct              | -2981 Sep 26 j 18:00 | 11°♌13'41 |            | greatest brilliancy | -2978 Mar 14 j 18:21 | 9°♋54'04  | -3.9m      |
| greatest brilliancy | -2981 Oct 07 j 15:27 | 13°♌28'26 | -4.9m      |                     | -2978 Mar 31 j 03:49 | 0°♑       |            |
| asc. node           | -2981 Oct 21 j 19:48 | 21°♌39'18 |            | asc. node           | -2978 Apr 07 j 15:07 | 9°♑08'12  |            |
|                     | -2981 Nov 01 j 02:04 | 0°♍       |            |                     | -2978 Apr 24 j 17:43 | 0°♉       |            |
| morning max el      | -2981 Nov 16 j 14:48 | 14°♍55'03 | 46°52'56   |                     | -2978 May 19 j 11:16 | 0°♊       |            |
|                     | -2981 Nov 30 j 19:03 | 0°♎       |            |                     | -2978 Jun 13 j 09:49 | 0°♋       |            |
|                     | -2981 Dec 27 j 05:10 | 0°♏       |            |                     | -2978 Jul 08 j 16:27 | 0°♌       |            |
|                     | -2980 Jan 21 j 16:43 | 0°♊       |            | desc. node          | -2978 Jul 28 j 08:28 | 22°♌52'44 |            |
| desc. node          | -2980 Feb 10 j 14:34 | 23°♊44'55 |            |                     | -2978 Aug 03 j 13:55 | 0°♍       |            |
|                     | -2980 Feb 15 j 19:51 | 0°♊       |            |                     | -2978 Aug 30 j 19:27 | 0°♎       |            |
|                     | -2980 Mar 11 j 18:48 | 0°♋       |            | evening max el      | -2978 Sep 09 j 14:33 | 10°♎05'39 | 47°24'41   |
|                     | -2980 Apr 05 j 14:32 | 0°♋       |            |                     | -2978 Oct 01 j 12:17 | 0°♏       |            |
|                     | -2980 Apr 30 j 06:54 | 0°♑       |            | greatest brilliancy | -2978 Oct 20 j 09:48 | 11°♏21'00 | -4.9m      |
| morning set         | -2980 May 17 j 15:35 | 21°♑13'16 |            | retrograde          | -2978 Oct 30 j 08:09 | 13°♏13'37 |            |
|                     | -2980 May 24 j 19:20 | 0°♉       |            | evening set         | -2978 Nov 13 j 18:00 | 9°♏02'12  |            |
| asc. node           | -2980 Jun 02 j 13:17 | 10°♉45'35 |            | asc. node           | -2978 Nov 18 j 07:28 | 6°♏21'50  |            |
|                     | -2980 Jun 18 j 03:23 | 0°♊       |            | inferior conj       | -2978 Nov 19 j 21:36 | 5°♏23'01  | 0°24'29    |
| max. Earth dist.    | -2980 Jun 18 j 16:48 | 0°♊41'30  | 1.72925 AU | minimum elong       | -2978 Nov 19 j 20:41 | 5°♏24'26  | 0°24'08    |
|                     |                      |           |            | min. Earth dist.    | -2978 Nov 19 j 06:55 | 5°♏45'42  | 0.26510 AU |
| superior conj       | -2980 Jun 22 j 16:37 | 5°♊38'05  | 0°45'04    | morning rise        | -2978 Nov 26 j 00:04 | 1°♏47'41  |            |
| minimum elong       | -2980 Jun 22 j 08:52 | 5°♊14'08  | 0°44'49    |                     | -2978 Nov 29 j 17:59 | 30°♏♎     |            |
|                     | -2980 Jul 12 j 07:22 | 0°♋       |            | direct              | -2978 Dec 10 j 04:46 | 27°♎45'54 |            |
| evening rise        | -2980 Jul 28 j 21:45 | 20°♋41'49 |            | greatest brilliancy | -2978 Dec 19 j 15:50 | 29°♎28'32 | -4.9m      |
|                     | -2980 Aug 05 j 08:33 | 0°♌       |            |                     | -2978 Dec 21 j 01:53 | 0°♏       |            |
|                     | -2980 Aug 29 j 08:56 | 0°♍       |            | morning max el      | -2977 Jan 28 j 23:15 | 29°♏38'55 | 46°23'12   |
| desc. node          | -2980 Sep 22 j 06:35 | 29°♍47'58 |            |                     | -2977 Jan 29 j 07:49 | 0°♊       |            |
|                     | -2980 Sep 22 j 10:27 | 0°♎       |            |                     | -2977 Feb 26 j 20:13 | 0°♊       |            |
|                     | -2980 Oct 16 j 14:41 | 0°♏       |            | desc. node          | -2977 Mar 10 j 02:11 | 12°♊31'06 |            |
|                     | -2980 Nov 09 j 23:43 | 0°♊       |            |                     | -2977 Mar 25 j 11:10 | 0°♋       |            |
|                     | -2980 Dec 04 j 18:02 | 0°♊       |            |                     | -2977 Apr 20 j 06:17 | 0°♋       |            |
|                     | -2980 Dec 30 j 08:04 | 0°♋       |            |                     | -2977 May 15 j 13:01 | 0°♑       |            |
| asc. node           | -2979 Jan 13 j 05:01 | 15°♋31'18 |            |                     | -2977 Jun 09 j 09:54 | 0°♉       |            |
|                     | -2979 Jan 26 j 20:57 | 0°♋       |            | asc. node           | -2977 Jul 01 j 01:16 | 26°♉28'33 |            |
| evening max el      | -2979 Feb 01 j 11:38 | 5°♋37'31  | 45°45'01   |                     | -2977 Jul 03 j 21:56 | 0°♊       |            |
|                     | -2979 Mar 03 j 05:47 | 0°♑       |            | morning set         | -2977 Jul 25 j 14:20 | 26°♊53'01 |            |
| greatest brilliancy | -2979 Mar 11 j 14:37 | 4°♑03'50  | -4.7m      |                     | -2977 Jul 28 j 02:19 | 0°♋       |            |
| retrograde          | -2979 Mar 22 j 10:50 | 6°♑11'25  |            |                     | -2977 Aug 21 j 01:07 | 0°♌       |            |
| evening set         | -2979 Apr 07 j 14:00 | 1°♑09'52  |            | max. Earth dist.    | -2977 Aug 30 j 00:26 | 11°♌17'11 | 1.71261 AU |
|                     | -2979 Apr 09 j 13:10 | 30°♏♋     |            |                     |                      |           |            |
| inferior conj       | -2979 Apr 12 j 21:15 | 27°♋55'18 | 4°45'37    | superior conj       | -2977 Sep 01 j 09:58 | 14°♌18'14 | 1°22'44    |
| minimum elong       | -2979 Apr 13 j 05:46 | 27°♋41'54 | 4°43'38    | minimum elong       | -2977 Sep 01 j 13:48 | 14°♌30'15 | 1°22'46    |
| min. Earth dist.    | -2979 Apr 13 j 09:45 | 27°♋35'36 | 0.29218 AU |                     | -2977 Sep 13 j 21:05 | 0°♍       |            |
| morning rise        | -2979 Apr 18 j 21:28 | 24°♋16'25 |            |                     | -2977 Oct 07 j 16:51 | 0°♎       |            |
| direct              | -2979 May 04 j 16:10 | 19°♋30'41 |            | evening rise        | -2977 Oct 11 j 20:26 | 5°♎13'03  |            |
| desc. node          | -2979 May 04 j 23:08 | 19°♋30'47 |            | desc. node          | -2977 Oct 20 j 18:45 | 16°♎26'17 |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|--|
|                     | -2977 Oct 31 j 14:13 | 0°♌       |            |                     |  | -2974 May 28 j 02:00 | 0°♐       |            |  |
|                     | -2977 Nov 24 j 14:21 | 0°♏       |            |                     |  | -2974 Jun 23 j 00:29 | 0°♏       |            |  |
|                     | -2977 Dec 18 j 18:36 | 0°♎       |            |                     |  | -2974 Jul 18 j 02:34 | 0°♏       |            |  |
|                     | -2976 Jan 12 j 05:39 | 0°♎       |            | asc. node           |  | -2974 Jul 28 j 13:11 | 12°♏43'13 |            |  |
|                     | -2976 Feb 06 j 04:36 | 0°♏       |            |                     |  | -2974 Aug 11 j 14:06 | 0°♏       |            |  |
| asc. node           | -2976 Feb 10 j 16:57 | 5°♏20'00  |            |                     |  | -2974 Sep 04 j 15:35 | 0°♏       |            |  |
|                     | -2976 Mar 03 j 00:38 | 0°♐       |            | greatest brilliancy |  | -2974 Sep 15 j 02:27 | 13°♏08'11 | -3.9m      |  |
|                     | -2976 Mar 30 j 13:51 | 0°♏       |            |                     |  | -2974 Sep 28 j 11:30 | 0°♏       |            |  |
| evening max el      | -2976 Apr 13 j 05:04 | 13°♏34'05 | 45°10'08   | morning set         |  | -2974 Oct 06 j 12:33 | 10°♏09'04 |            |  |
|                     | -2976 May 02 j 06:16 | 0°♏       |            |                     |  | -2974 Oct 22 j 05:55 | 0°♏       |            |  |
| greatest brilliancy | -2976 May 21 j 02:44 | 10°♏52'04 | -4.7m      |                     |  | -2974 Nov 15 j 01:31 | 0°♌       |            |  |
| retrograde          | -2976 May 31 j 12:24 | 12°♏48'02 |            |                     |  |                      |           |            |  |
| desc. node          | -2976 Jun 01 j 10:57 | 12°♏47'01 |            | superior conj       |  | -2974 Nov 17 j 01:03 | 2°♌29'24  | 0°00'35    |  |
| evening set         | -2976 Jun 15 j 17:22 | 8°♏26'58  |            | minimum elong       |  | -2974 Nov 17 j 01:11 | 2°♌29'49  | 0°00'31    |  |
| inferior conj       | -2976 Jun 21 j 20:24 | 4°♏51'23  | -4°34'23   | behind sun begin    |  | -2974 Nov 15 j 22:11 | 1°♌04'55  |            |  |
| minimum elong       | -2976 Jun 21 j 11:28 | 5°♏05'07  | 4°32'01    | behind sun end      |  | -2974 Nov 18 j 04:12 | 3°♌54'41  |            |  |
| min. Earth dist.    | -2976 Jun 22 j 05:05 | 4°♏38'03  | 0.28374 AU | desc. node          |  | -2974 Nov 17 j 06:57 | 2°♌47'56  |            |  |
| morning rise        | -2976 Jun 27 j 04:54 | 1°♏39'17  |            | max. Earth dist.    |  | -2974 Nov 21 j 01:47 | 7°♌33'14  | 1.71177 AU |  |
|                     | -2976 Jun 30 j 08:10 | 30°♏♏     |            |                     |  | -2974 Dec 08 j 23:36 | 0°♏       |            |  |
| direct              | -2976 Jul 13 j 08:34 | 26°♏42'23 |            | evening rise        |  | -2974 Dec 29 j 01:56 | 25°♏05'14 |            |  |
| greatest brilliancy | -2976 Jul 24 j 10:16 | 28°♏54'37 | -4.8m      |                     |  | -2973 Jan 02 j 00:41 | 0°♎       |            |  |
|                     | -2976 Jul 27 j 00:52 | 0°♏       |            |                     |  | -2973 Jan 26 j 05:32 | 0°♎       |            |  |
| morning max el      | -2976 Sep 01 j 08:35 | 28°♏27'47 | 46°34'03   |                     |  | -2973 Feb 19 j 15:41 | 0°♏       |            |  |
|                     | -2976 Sep 02 j 21:17 | 0°♏       |            | asc. node           |  | -2973 Mar 10 j 05:04 | 22°♏32'51 |            |  |
| asc. node           | -2976 Sep 22 j 10:24 | 20°♏53'10 |            |                     |  | -2973 Mar 16 j 09:22 | 0°♐       |            |  |
|                     | -2976 Sep 30 j 11:37 | 0°♏       |            |                     |  | -2973 Apr 10 j 13:38 | 0°♏       |            |  |
|                     | -2976 Oct 25 j 22:15 | 0°♏       |            |                     |  | -2973 May 06 j 09:33 | 0°♏       |            |  |
|                     | -2976 Nov 19 j 13:19 | 0°♏       |            |                     |  | -2973 Jun 02 j 09:04 | 0°♏       |            |  |
|                     | -2976 Dec 13 j 21:54 | 0°♌       |            | evening max el      |  | -2973 Jun 25 j 09:07 | 23°♏35'44 | 46°02'58   |  |
|                     | -2975 Jan 07 j 05:49 | 0°♏       |            | desc. node          |  | -2973 Jun 29 j 22:45 | 27°♏55'04 |            |  |
| desc. node          | -2975 Jan 12 j 04:48 | 6°♏06'26  |            |                     |  | -2973 Jul 02 j 05:06 | 0°♏       |            |  |
|                     | -2975 Jan 31 j 14:53 | 0°♎       |            | greatest brilliancy |  | -2973 Aug 04 j 17:15 | 22°♏41'33 | -4.8m      |  |
|                     | -2975 Feb 25 j 01:05 | 0°♎       |            | retrograde          |  | -2973 Aug 13 j 20:23 | 24°♏13'17 |            |  |
| morning set         | -2975 Mar 08 j 21:40 | 14°♎33'09 |            | evening set         |  | -2973 Aug 31 j 16:05 | 18°♏17'22 |            |  |
|                     | -2975 Mar 21 j 11:54 | 0°♏       |            | inferior conj       |  | -2973 Sep 03 j 14:44 | 16°♏31'41 | -8°43'59   |  |
| max. Earth dist.    | -2975 Apr 13 j 20:24 | 28°♏39'06 | 1.73717 AU | minimum elong       |  | -2973 Sep 03 j 19:39 | 16°♏24'16 | 8°43'33    |  |
|                     |                      |           |            | min. Earth dist.    |  | -2973 Sep 04 j 03:36 | 16°♏12'15 | 0.27056 AU |  |
| superior conj       | -2975 Apr 14 j 15:49 | 29°♏38'38 | -0°45'33   | morning rise        |  | -2973 Sep 06 j 23:04 | 14°♏31'41 |            |  |
| minimum elong       | -2975 Apr 14 j 23:38 | 0°♐02'38  | 0°45'13    | direct              |  | -2973 Sep 24 j 07:54 | 8°♏46'35  |            |  |
|                     | -2975 Apr 14 j 22:47 | 0°♐       |            | greatest brilliancy |  | -2973 Oct 05 j 04:16 | 11°♏00'36 | -4.9m      |  |
| asc. node           | -2975 May 05 j 03:19 | 24°♐47'04 |            | asc. node           |  | -2973 Oct 20 j 22:01 | 20°♏20'37 |            |  |
|                     | -2975 May 09 j 09:12 | 0°♏       |            |                     |  | -2973 Nov 01 j 09:04 | 0°♏       |            |  |
| evening rise        | -2975 May 20 j 14:38 | 13°♏47'48 |            | morning max el      |  | -2973 Nov 14 j 05:02 | 12°♏30'01 | 46°53'07   |  |
|                     | -2975 Jun 02 j 18:47 | 0°♏       |            |                     |  | -2973 Nov 30 j 13:44 | 0°♏       |            |  |
|                     | -2975 Jun 27 j 03:46 | 0°♏       |            |                     |  | -2973 Dec 26 j 20:17 | 0°♌       |            |  |
|                     | -2975 Jul 21 j 13:13 | 0°♏       |            |                     |  | -2972 Jan 21 j 06:07 | 0°♏       |            |  |
|                     | -2975 Aug 15 j 01:05 | 0°♏       |            | desc. node          |  | -2972 Feb 09 j 16:33 | 23°♏13'15 |            |  |
| desc. node          | -2975 Aug 24 j 20:28 | 11°♏56'46 |            |                     |  | -2972 Feb 15 j 08:14 | 0°♎       |            |  |
|                     | -2975 Sep 08 j 18:02 | 0°♏       |            |                     |  | -2972 Mar 11 j 06:31 | 0°♎       |            |  |
|                     | -2975 Oct 03 j 20:31 | 0°♌       |            |                     |  | -2972 Apr 05 j 01:50 | 0°♏       |            |  |
|                     | -2975 Oct 29 j 19:20 | 0°♏       |            |                     |  | -2972 Apr 29 j 17:56 | 0°♐       |            |  |
| evening max el      | -2975 Nov 20 j 01:50 | 22°♏57'59 | 47°10'19   | morning set         |  | -2972 May 15 j 10:33 | 19°♐10'50 |            |  |
|                     | -2975 Nov 27 j 03:00 | 0°♎       |            |                     |  | -2972 May 24 j 06:16 | 0°♏       |            |  |
| asc. node           | -2975 Dec 15 j 19:20 | 16°♎11'09 |            | asc. node           |  | -2972 Jun 01 j 15:26 | 10°♏18'36 |            |  |
| greatest brilliancy | -2975 Dec 30 j 06:15 | 24°♎33'40 | -4.9m      | max. Earth dist.    |  | -2972 Jun 16 j 11:18 | 28°♏36'27 | 1.72978 AU |  |
| retrograde          | -2974 Jan 10 j 00:36 | 26°♎46'47 |            |                     |  | -2972 Jun 17 j 14:19 | 0°♏       |            |  |
| evening set         | -2974 Jan 27 j 09:29 | 20°♎50'47 |            |                     |  |                      |           |            |  |
| min. Earth dist.    | -2974 Jan 30 j 11:14 | 18°♎55'11 | 0.28479 AU | superior conj       |  | -2972 Jun 20 j 10:55 | 3°♏32'13  | 0°42'23    |  |
| inferior conj       | -2974 Jan 31 j 05:13 | 18°♎26'28 | 8°11'53    | minimum elong       |  | -2972 Jun 20 j 03:30 | 3°♏09'16  | 0°42'09    |  |
| minimum elong       | -2974 Jan 31 j 00:54 | 18°♎33'22 | 8°11'30    |                     |  | -2972 Jul 11 j 18:23 | 0°♏       |            |  |
| morning rise        | -2974 Feb 03 j 16:35 | 16°♎15'18 |            | evening rise        |  | -2972 Jul 26 j 14:10 | 18°♏28'29 |            |  |
| direct              | -2974 Feb 21 j 06:56 | 10°♎16'04 |            |                     |  | -2972 Aug 04 j 19:46 | 0°♏       |            |  |
| greatest brilliancy | -2974 Mar 02 j 06:51 | 11°♎45'27 | -4.8m      |                     |  | -2972 Aug 28 j 20:23 | 0°♏       |            |  |
|                     | -2974 Mar 30 j 21:36 | 0°♎       |            | desc. node          |  | -2972 Sep 21 j 08:38 | 29°♏17'50 |            |  |
| desc. node          | -2974 Apr 06 j 13:41 | 5°♎55'56  |            |                     |  | -2972 Sep 21 j 22:12 | 0°♏       |            |  |
| morning max el      | -2974 Apr 11 j 02:51 | 10°♎11'26 | 45°50'53   |                     |  | -2972 Oct 16 j 02:48 | 0°♌       |            |  |
|                     | -2974 Apr 30 j 17:56 | 0°♏       |            |                     |  | -2972 Nov 09 j 12:21 | 0°♏       |            |  |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|--|
|                     | -2972 Dec 04 j 07:32 | 0°☾       |            |                     | -2969 Feb 26 j 12:39 | 0°☾       |            |  |
|                     | -2972 Dec 29 j 23:22 | 0°≈       |            | desc. node          | -2969 Mar 09 j 04:17 | 11°☾54'24 |            |  |
| asc. node           | -2971 Jan 12 j 07:05 | 14°≈50'27 |            |                     | -2969 Mar 25 j 01:05 | 0°≈       |            |  |
|                     | -2971 Jan 26 j 17:13 | 0°☿       |            |                     | -2969 Apr 19 j 18:53 | 0°☿       |            |  |
| evening max el      | -2971 Jan 30 j 03:44 | 3°☿25'35  | 45°47'36   |                     | -2969 May 15 j 00:52 | 0°☿       |            |  |
|                     | -2971 Mar 04 j 20:41 | 0°☿       |            |                     | -2969 Jun 08 j 21:18 | 0°☿       |            |  |
| greatest brilliancy | -2971 Mar 09 j 07:59 | 1°☿57'07  | -4.7m      | asc. node           | -2969 Jun 30 j 03:22 | 26°☿00'29 |            |  |
| retrograde          | -2971 Mar 20 j 03:39 | 4°☿04'08  |            |                     | -2969 Jul 03 j 09:08 | 0°☿       |            |  |
|                     | -2971 Apr 03 j 13:49 | 30°☿☿     |            | morning set         | -2969 Jul 23 j 06:36 | 24°☿39'28 |            |  |
| evening set         | -2971 Apr 05 j 09:25 | 28°☿59'12 |            |                     | -2969 Jul 27 j 13:27 | 0°☿       |            |  |
| inferior conj       | -2971 Apr 10 j 14:14 | 25°☿47'37 | 5°00'56    |                     | -2969 Aug 20 j 12:19 | 0°☿       |            |  |
| minimum elong       | -2971 Apr 10 j 22:57 | 25°☿33'50 | 4°58'57    | max. Earth dist.    | -2969 Aug 27 j 10:30 | 8°☿42'30  | 1.71313 AU |  |
| min. Earth dist.    | -2971 Apr 11 j 02:10 | 25°☿28'44 | 0.29227 AU |                     |                      |           |            |  |
| morning rise        | -2971 Apr 16 j 12:28 | 22°☿11'04 |            | superior conj       | -2969 Aug 29 j 23:50 | 11°☿55'28 | 1°23'19    |  |
| direct              | -2971 May 02 j 09:20 | 17°☿23'05 |            | minimum elong       | -2969 Aug 30 j 02:48 | 12°☿04'47 | 1°23'22    |  |
| desc. node          | -2971 May 04 j 01:17 | 17°☿26'17 |            |                     | -2969 Sep 13 j 08:23 | 0°☿       |            |  |
| greatest brilliancy | -2971 May 12 j 19:54 | 19°☿20'50 | -4.7m      |                     | -2969 Oct 07 j 04:16 | 0°☿       |            |  |
|                     | -2971 May 31 j 07:31 | 0°☿       |            | evening rise        | -2969 Oct 09 j 06:01 | 2°☿36'25  |            |  |
| morning max el      | -2971 Jun 20 j 09:34 | 17°☿24'47 | 45°55'51   | desc. node          | -2969 Oct 19 j 20:56 | 15°☿57'02 |            |  |
|                     | -2971 Jul 02 j 23:26 | 0°☿       |            |                     | -2969 Oct 31 j 01:46 | 0°☿       |            |  |
|                     | -2971 Jul 30 j 09:02 | 0°☿       |            |                     | -2969 Nov 24 j 02:02 | 0°☿       |            |  |
|                     | -2971 Aug 24 j 22:52 | 0°☿       |            |                     | -2969 Dec 18 j 06:28 | 0°☿       |            |  |
| asc. node           | -2971 Aug 25 j 00:53 | 0°☿06'05  |            |                     | -2968 Jan 11 j 17:53 | 0°≈       |            |  |
|                     | -2971 Sep 18 j 13:47 | 0°☿       |            |                     | -2968 Feb 05 j 17:36 | 0°☿       |            |  |
|                     | -2971 Oct 12 j 16:35 | 0°☿       |            | asc. node           | -2968 Feb 09 j 19:00 | 4°☿47'11  |            |  |
|                     | -2971 Nov 05 j 14:36 | 0°☿       |            |                     | -2968 Mar 02 j 15:17 | 0°☿       |            |  |
|                     | -2971 Nov 29 j 12:26 | 0°☿       |            |                     | -2968 Mar 30 j 08:42 | 0°☿       |            |  |
| desc. node          | -2971 Dec 14 j 18:53 | 19°☿06'16 |            | evening max el      | -2968 Apr 10 j 19:48 | 11°☿20'27 | 45°09'58   |  |
| morning set         | -2971 Dec 22 j 20:15 | 29°☿09'42 |            |                     | -2968 May 02 j 22:00 | 0°☿       |            |  |
|                     | -2971 Dec 23 j 12:23 | 0°☿       |            | greatest brilliancy | -2968 May 18 j 16:40 | 8°☿38'35  | -4.7m      |  |
|                     | -2970 Jan 16 j 15:00 | 0°☿       |            | retrograde          | -2968 May 29 j 03:44 | 10°☿36'02 |            |  |
|                     |                      |           |            | desc. node          | -2968 May 31 j 13:06 | 10°☿29'22 |            |  |
| superior conj       | -2970 Feb 01 j 16:03 | 19°☿53'11 | -1°22'15   | evening set         | -2968 Jun 13 j 06:56 | 6°☿16'25  |            |  |
| minimum elong       | -2970 Feb 01 j 11:39 | 19°☿39'35 | 1°22'18    | inferior conj       | -2968 Jun 19 j 11:46 | 2°☿38'32  | -4°16'20   |  |
| max. Earth dist.    | -2970 Feb 05 j 02:12 | 24°☿07'22 | 1.72736 AU | minimum elong       | -2968 Jun 19 j 03:14 | 2°☿51'36  | 4°14'03    |  |
|                     | -2970 Feb 09 j 20:15 | 0°≈       |            | min. Earth dist.    | -2968 Jun 19 j 20:39 | 2°☿24'53  | 0.28413 AU |  |
|                     | -2970 Mar 06 j 04:09 | 0°☿       |            |                     | -2968 Jun 23 j 20:54 | 30°☿☿     |            |  |
| evening rise        | -2970 Mar 12 j 01:00 | 7°☿12'59  |            | morning rise        | -2968 Jun 24 j 22:53 | 29°☿22'54 |            |  |
| greatest brilliancy | -2970 Mar 12 j 14:38 | 7°☿54'52  | -3.9m      | direct              | -2968 Jul 11 j 00:10 | 24°☿28'36 |            |  |
|                     | -2970 Mar 30 j 14:58 | 0°☿       |            | greatest brilliancy | -2968 Jul 22 j 02:36 | 26°☿41'37 | -4.8m      |  |
| asc. node           | -2970 Apr 06 j 17:18 | 8°☿40'39  |            |                     | -2968 Jul 29 j 01:40 | 0°☿       |            |  |
|                     | -2970 Apr 24 j 05:05 | 0°☿       |            | morning max el      | -2968 Aug 29 j 23:43 | 26°☿09'54 | 46°32'45   |  |
|                     | -2970 May 18 j 23:05 | 0°☿       |            |                     | -2968 Sep 02 j 18:44 | 0°☿       |            |  |
|                     | -2970 Jun 12 j 22:24 | 0°☿       |            | asc. node           | -2968 Sep 21 j 12:41 | 20°☿11'54 |            |  |
|                     | -2970 Jul 08 j 06:17 | 0°☿       |            |                     | -2968 Sep 30 j 03:34 | 0°☿       |            |  |
| desc. node          | -2970 Jul 27 j 10:25 | 22°☿14'25 |            |                     | -2968 Oct 25 j 12:11 | 0°☿       |            |  |
|                     | -2970 Aug 03 j 05:56 | 0°☿       |            |                     | -2968 Nov 19 j 02:15 | 0°☿       |            |  |
|                     | -2970 Aug 30 j 16:23 | 0°☿       |            |                     | -2968 Dec 13 j 10:15 | 0°☿       |            |  |
| evening max el      | -2970 Sep 07 j 03:55 | 7°☿39'08  | 47°22'54   |                     | -2967 Jan 06 j 17:43 | 0°☿       |            |  |
|                     | -2970 Oct 02 j 07:52 | 0°☿       |            | desc. node          | -2967 Jan 11 j 06:49 | 5°☿36'16  |            |  |
| greatest brilliancy | -2970 Oct 18 j 00:37 | 8°☿52'43  | -4.9m      |                     | -2967 Jan 31 j 02:25 | 0°☿       |            |  |
| retrograde          | -2970 Oct 27 j 20:20 | 10°☿43'00 |            |                     | -2967 Feb 24 j 12:20 | 0°≈       |            |  |
| evening set         | -2970 Nov 11 j 07:18 | 6°☿31'38  |            | morning set         | -2967 Mar 06 j 13:50 | 12°≈21'13 |            |  |
| inferior conj       | -2970 Nov 17 j 10:10 | 2°☿53'51  | 0°00'20    |                     | -2967 Mar 20 j 22:58 | 0°☿       |            |  |
| minimum elong       | -2970 Nov 17 j 10:09 | 2°☿53'52  | 0°00'17    | max. Earth dist.    | -2967 Apr 11 j 17:51 | 26°☿43'56 | 1.73714 AU |  |
| transit middle      | -2970 Nov 17 j 10:09 | 2°☿53'52  | 0°00'17    |                     |                      |           |            |  |
| transit begin       | -2970 Nov 17 j 06:06 | 3°☿00'07  |            | superior conj       | -2967 Apr 12 j 10:09 | 27°☿33'55 | -0°48'07   |  |
| transit end         | -2970 Nov 17 j 14:12 | 2°☿47'36  |            | minimum elong       | -2967 Apr 12 j 18:15 | 27°☿58'47 | 0°47'48    |  |
| min. Earth dist.    | -2970 Nov 16 j 21:12 | 3°☿13'52  | 0.26472 AU |                     | -2967 Apr 14 j 09:46 | 0°☿       |            |  |
| asc. node           | -2970 Nov 17 j 09:38 | 2°☿54'39  |            | asc. node           | -2967 May 04 j 05:29 | 24°☿19'53 |            |  |
|                     | -2970 Nov 22 j 06:18 | 30°☿☿     |            |                     | -2967 May 08 j 20:13 | 0°☿       |            |  |
| morning rise        | -2970 Nov 23 j 13:34 | 29°☿17'08 |            | evening rise        | -2967 May 18 j 10:10 | 11°☿46'22 |            |  |
| direct              | -2970 Dec 07 j 16:37 | 25°☿17'22 |            |                     | -2967 Jun 02 j 05:57 | 0°☿       |            |  |
| greatest brilliancy | -2970 Dec 17 j 06:08 | 27°☿01'46 | -4.9m      |                     | -2967 Jun 26 j 15:10 | 0°☿       |            |  |
|                     | -2970 Dec 23 j 21:31 | 0°☿       |            |                     | -2967 Jul 21 j 01:01 | 0°☿       |            |  |
| morning max el      | -2969 Jan 26 j 11:28 | 27°☿12'38 | 46°24'38   |                     | -2967 Aug 14 j 13:28 | 0°☿       |            |  |
|                     | -2969 Jan 29 j 06:49 | 0°☿       |            | desc. node          | -2967 Aug 23 j 22:37 | 11°☿24'49 |            |  |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |  |                      |           |            |  |
|---------------------|----------------------|-----------|------------|---------------------|--|----------------------|-----------|------------|--|
|                     | -2967 Sep 08 j 07:16 | 0°♊       |            |                     |  | -2964 Mar 10 j 18:13 | 0°♊       |            |  |
|                     | -2967 Oct 03 j 11:08 | 0°♋       |            |                     |  | -2964 Apr 04 j 13:06 | 0°♋       |            |  |
|                     | -2967 Oct 29 j 12:41 | 0°♌       |            |                     |  | -2964 Apr 29 j 04:56 | 0°♌       |            |  |
| evening max el      | -2967 Nov 17 j 17:33 | 20°♌39'02 | 47°12'34   | morning set         |  | -2964 May 13 j 05:28 | 17°♌08'28 |            |  |
|                     | -2967 Nov 27 j 04:38 | 0°♍       |            |                     |  | -2964 May 23 j 17:06 | 0°♍       |            |  |
| asc. node           | -2967 Dec 14 j 21:24 | 14°♍55'16 |            | asc. node           |  | -2964 May 31 j 17:29 | 9°♍51'32  |            |  |
| greatest brilliancy | -2967 Dec 27 j 21:57 | 22°♍16'14 | -4.9m      | max. Earth dist.    |  | -2964 Jun 14 j 05:38 | 26°♍31'20 | 1.73028 AU |  |
| retrograde          | -2966 Jan 07 j 17:16 | 24°♍30'26 |            |                     |  | -2964 Jun 17 j 01:09 | 0°♎       |            |  |
| evening set         | -2966 Jan 24 j 22:59 | 18°♍37'57 |            |                     |  |                      |           |            |  |
| min. Earth dist.    | -2966 Jan 28 j 01:37 | 16°♍41'14 | 0.28413 AU | superior conj       |  | -2964 Jun 18 j 05:20 | 1°♎27'12  | 0°39'39    |  |
| inferior conj       | -2966 Jan 28 j 20:57 | 16°♍10'27 | 8°07'14    | minimum elong       |  | -2964 Jun 17 j 22:17 | 1°♎05'22  | 0°39'26    |  |
| minimum elong       | -2966 Jan 28 j 15:58 | 16°♍18'23 | 8°06'46    |                     |  | -2964 Jul 11 j 05:19 | 0°♏       |            |  |
| morning rise        | -2966 Feb 01 j 09:17 | 13°♍58'09 |            | evening rise        |  | -2964 Jul 24 j 06:56 | 16°♏16'40 |            |  |
| direct              | -2966 Feb 18 j 22:03 | 8°♍01'05  |            |                     |  | -2964 Aug 04 j 06:52 | 0°♐       |            |  |
| greatest brilliancy | -2966 Feb 27 j 20:45 | 9°♍30'02  | -4.8m      |                     |  | -2964 Aug 28 j 07:45 | 0°♐       |            |  |
|                     | -2966 Mar 31 j 01:55 | 0°♑       |            | desc. node          |  | -2964 Sep 20 j 10:51 | 28°♐48'34 |            |  |
| desc. node          | -2966 Apr 05 j 15:55 | 5°♑04'05  |            |                     |  | -2964 Sep 21 j 09:50 | 0°♑       |            |  |
| morning max el      | -2966 Apr 08 j 19:01 | 8°♑01'00  | 45°51'29   |                     |  | -2964 Oct 15 j 14:46 | 0°♒       |            |  |
|                     | -2966 Apr 30 j 11:12 | 0°♋       |            |                     |  | -2964 Nov 09 j 00:49 | 0°♋       |            |  |
|                     | -2966 May 27 j 16:04 | 0°♌       |            |                     |  | -2964 Dec 03 j 20:54 | 0°♋       |            |  |
|                     | -2966 Jun 22 j 13:08 | 0°♍       |            |                     |  | -2964 Dec 29 j 14:39 | 0°♍       |            |  |
|                     | -2966 Jul 17 j 14:29 | 0°♎       |            | asc. node           |  | -2963 Jan 11 j 09:09 | 14°♍09'43 |            |  |
| asc. node           | -2966 Jul 27 j 15:12 | 12°♎13'34 |            |                     |  | -2963 Jan 26 j 13:58 | 0°♋       |            |  |
|                     | -2966 Aug 11 j 01:37 | 0°♏       |            | evening max el      |  | -2963 Jan 27 j 18:56 | 1°♋11'44  | 45°50'01   |  |
|                     | -2966 Sep 04 j 02:54 | 0°♐       |            | greatest brilliancy |  | -2963 Mar 07 j 01:48 | 29°♋50'59 | -4.7m      |  |
| greatest brilliancy | -2966 Sep 15 j 06:04 | 13°♐59'39 | -3.9m      |                     |  | -2963 Mar 07 j 11:37 | 0°♌       |            |  |
|                     | -2966 Sep 27 j 22:44 | 0°♐       |            | retrograde          |  | -2963 Mar 17 j 20:10 | 1°♌57'08  |            |  |
| morning set         | -2966 Oct 04 j 00:25 | 7°♐39'37  |            |                     |  | -2963 Mar 27 j 17:55 | 30°♋      |            |  |
|                     | -2966 Oct 21 j 17:08 | 0°♑       |            | evening set         |  | -2963 Apr 03 j 04:49 | 26°♋48'40 |            |  |
|                     |                      |           |            | inferior conj       |  | -2963 Apr 08 j 07:14 | 23°♋40'18 | 5°15'46    |  |
| superior conj       | -2966 Nov 14 j 10:03 | 29°♑51'31 | 0°04'37    | minimum elong       |  | -2963 Apr 08 j 16:06 | 23°♋26'14 | 5°13'49    |  |
| minimum elong       | -2966 Nov 14 j 11:19 | 29°♑55'29 | 0°04'31    | min. Earth dist.    |  | -2963 Apr 08 j 18:56 | 23°♋21'45 | 0.29236 AU |  |
| behind sun begin    | -2966 Nov 13 j 09:04 | 28°♑32'58 |            | morning rise        |  | -2963 Apr 14 j 03:21 | 20°♋06'13 |            |  |
| behind sun end      | -2966 Nov 15 j 13:33 | 1°♒17'57  |            | direct              |  | -2963 Apr 30 j 01:56 | 15°♋15'46 |            |  |
|                     | -2966 Nov 14 j 12:45 | 0°♒       |            | desc. node          |  | -2963 May 03 j 03:22 | 15°♋26'24 |            |  |
| desc. node          | -2966 Nov 16 j 08:59 | 2°♒19'02  |            | greatest brilliancy |  | -2963 May 10 j 11:39 | 17°♋12'18 | -4.7m      |  |
| max. Earth dist.    | -2966 Nov 18 j 10:50 | 4°♒55'37  | 1.71146 AU |                     |  | -2963 May 31 j 18:39 | 0°♌       |            |  |
|                     | -2966 Dec 08 j 10:50 | 0°♋       |            | morning max el      |  | -2963 Jun 18 j 00:39 | 15°♌12'34 | 45°54'57   |  |
| evening rise        | -2966 Dec 26 j 12:50 | 22°♋34'44 |            |                     |  | -2963 Jul 02 j 17:34 | 0°♍       |            |  |
|                     | -2965 Jan 01 j 11:56 | 0°♋       |            |                     |  | -2963 Jul 29 j 23:23 | 0°♎       |            |  |
|                     | -2965 Jan 25 j 16:51 | 0°♌       |            | asc. node           |  | -2963 Aug 24 j 03:09 | 29°♎34'23 |            |  |
|                     | -2965 Feb 19 j 03:09 | 0°♍       |            |                     |  | -2963 Aug 24 j 11:41 | 0°♏       |            |  |
| asc. node           | -2965 Mar 09 j 07:16 | 22°♍04'04 |            |                     |  | -2963 Sep 18 j 01:51 | 0°♐       |            |  |
|                     | -2965 Mar 15 j 21:14 | 0°♌       |            |                     |  | -2963 Oct 12 j 04:17 | 0°♐       |            |  |
|                     | -2965 Apr 10 j 02:17 | 0°♍       |            |                     |  | -2963 Nov 05 j 02:02 | 0°♎       |            |  |
|                     | -2965 May 05 j 23:45 | 0°♎       |            |                     |  | -2963 Nov 28 j 23:40 | 0°♏       |            |  |
|                     | -2965 Jun 02 j 02:35 | 0°♏       |            | desc. node          |  | -2963 Dec 13 j 20:56 | 18°♏37'51 |            |  |
| evening max el      | -2965 Jun 22 j 23:27 | 21°♏17'27 | 46°00'02   | morning set         |  | -2963 Dec 20 j 06:44 | 26°♏38'08 |            |  |
| desc. node          | -2965 Jun 29 j 00:45 | 26°♏58'41 |            |                     |  | -2963 Dec 22 j 23:27 | 0°♋       |            |  |
|                     | -2965 Jul 02 j 09:20 | 0°♐       |            |                     |  | -2962 Jan 16 j 01:56 | 0°♋       |            |  |
| greatest brilliancy | -2965 Aug 02 j 04:32 | 20°♐16'00 | -4.8m      |                     |  |                      |           |            |  |
| retrograde          | -2965 Aug 11 j 08:51 | 21°♐48'07 |            | superior conj       |  | -2962 Jan 30 j 05:53 | 17°♋33'51 | -1°21'26   |  |
| evening set         | -2965 Aug 29 j 05:56 | 15°♐50'34 |            | minimum elong       |  | -2962 Jan 30 j 00:41 | 17°♋17'46 | 1°21'28    |  |
| inferior conj       | -2965 Sep 01 j 03:26 | 14°♐06'20 | -8°48'17   | max. Earth dist.    |  | -2962 Feb 02 j 19:54 | 22°♋00'05 | 1.72681 AU |  |
| minimum elong       | -2965 Sep 01 j 07:28 | 14°♐00'13 | 8°47'59    |                     |  | -2962 Feb 09 j 07:05 | 0°♍       |            |  |
| min. Earth dist.    | -2965 Sep 01 j 15:54 | 13°♐47'27 | 0.27102 AU |                     |  | -2962 Mar 05 j 14:58 | 0°♋       |            |  |
| morning rise        | -2965 Sep 04 j 08:54 | 12°♐10'21 |            | evening rise        |  | -2962 Mar 09 j 17:30 | 5°♋02'54  |            |  |
| direct              | -2965 Sep 21 j 21:44 | 6°♐20'48  |            | greatest brilliancy |  | -2962 Mar 10 j 06:33 | 5°♋43'00  | -3.9m      |  |
| greatest brilliancy | -2965 Oct 02 j 17:18 | 8°♐33'49  | -4.9m      |                     |  | -2962 Mar 30 j 01:52 | 0°♌       |            |  |
| asc. node           | -2965 Oct 20 j 00:07 | 19°♐04'48 |            | asc. node           |  | -2962 Apr 05 j 19:26 | 8°♌13'42  |            |  |
|                     | -2965 Nov 01 j 13:45 | 0°♐       |            |                     |  | -2962 Apr 23 j 16:13 | 0°♍       |            |  |
| morning max el      | -2965 Nov 11 j 18:25 | 10°♐03'16 | 46°53'17   |                     |  | -2962 May 18 j 10:41 | 0°♎       |            |  |
|                     | -2965 Nov 30 j 07:47 | 0°♑       |            |                     |  | -2962 Jun 12 j 10:45 | 0°♏       |            |  |
|                     | -2965 Dec 26 j 11:05 | 0°♒       |            |                     |  | -2962 Jul 07 j 19:53 | 0°♐       |            |  |
|                     | -2964 Jan 20 j 19:21 | 0°♋       |            | desc. node          |  | -2962 Jul 26 j 12:35 | 21°♐37'28 |            |  |
| desc. node          | -2964 Feb 08 j 18:39 | 22°♋42'09 |            |                     |  | -2962 Aug 02 j 21:50 | 0°♐       |            |  |
|                     | -2964 Feb 14 j 20:32 | 0°♋       |            |                     |  | -2962 Aug 30 j 13:35 | 0°♑       |            |  |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                                |            |                     |                      |                         |            |
|---------------------|----------------------|--------------------------------|------------|---------------------|----------------------|-------------------------|------------|
| evening max el      | -2962 Sep 04 j 16:18 | 5° $\Omega$ 11'26              | 47°21'06   |                     | -2959 Feb 23 j 23:15 | 0° $\approx$            |            |
|                     | -2962 Oct 03 j 09:32 | 0° $\mathbb{M}$                |            | morning set         | -2959 Mar 04 j 05:58 | 10° $\approx$ 10'06     |            |
| greatest brilliancy | -2962 Oct 15 j 15:24 | 6° $\mathbb{M}$ 25'27          | -4.9m      |                     | -2959 Mar 20 j 09:41 | 0° $\mathbb{H}$         |            |
| retrograde          | -2962 Oct 25 j 08:34 | 8° $\mathbb{M}$ 13'46          |            | max. Earth dist.    | -2959 Apr 09 j 16:58 | 24° $\mathbb{H}$ 54'56  | 1.73707 AU |
| evening set         | -2962 Nov 08 j 20:47 | 4° $\mathbb{M}$ 01'41          |            |                     |                      |                         |            |
| inferior conj       | -2962 Nov 14 j 22:45 | 0° $\mathbb{M}$ 25'47          | -0°23'50   | superior conj       | -2959 Apr 10 j 04:31 | 25° $\mathbb{H}$ 30'20  | -0°50'37   |
| minimum elong       | -2962 Nov 14 j 23:39 | 0° $\mathbb{M}$ 24'24          | 0°23'35    | minimum elong       | -2959 Apr 10 j 12:52 | 25° $\mathbb{H}$ 55'58  | 0°50'19    |
| min. Earth dist.    | -2962 Nov 14 j 11:35 | 0° $\mathbb{M}$ 43'00          | 0.26441 AU |                     | -2959 Apr 13 j 20:24 | 0° $\Upsilon$           |            |
|                     | -2962 Nov 15 j 15:29 | 30° $\mathbb{R}$ $\Omega$      |            | asc. node           | -2959 May 03 j 07:32 | 23° $\Upsilon$ 53'28    |            |
| asc. node           | -2962 Nov 16 j 11:44 | 29° $\Omega$ 28'58             |            |                     | -2959 May 08 j 06:54 | 0° $\mathcal{B}$        |            |
| morning rise        | -2962 Nov 21 j 02:55 | 26° $\Omega$ 48'05             |            | evening rise        | -2959 May 16 j 05:46 | 9° $\mathcal{B}$ 46'17  |            |
| direct              | -2962 Dec 05 j 04:17 | 22° $\Omega$ 49'35             |            |                     | -2959 Jun 01 j 16:47 | 0° $\mathbb{I}$         |            |
| greatest brilliancy | -2962 Dec 14 j 20:40 | 24° $\Omega$ 36'18             | -4.9m      |                     | -2959 Jun 26 j 02:19 | 0° $\mathcal{C}$        |            |
|                     | -2962 Dec 25 j 14:27 | 0° $\mathbb{M}$                |            |                     | -2959 Jul 20 j 12:35 | 0° $\Omega$             |            |
| morning max el      | -2961 Jan 24 j 00:19 | 24° $\mathbb{M}$ 48'50         | 46°26'13   |                     | -2959 Aug 14 j 01:39 | 0° $\mathbb{M}$         |            |
|                     | -2961 Jan 29 j 04:28 | 0° $\mathcal{A}$               |            | desc. node          | -2959 Aug 23 j 00:46 | 10° $\mathbb{M}$ 53'31  |            |
|                     | -2961 Feb 26 j 04:23 | 0° $\mathcal{B}$               |            |                     | -2959 Sep 07 j 20:21 | 0° $\Omega$             |            |
| desc. node          | -2961 Mar 08 j 06:32 | 11° $\mathcal{B}$ 19'34        |            |                     | -2959 Oct 03 j 01:37 | 0° $\mathbb{M}$         |            |
|                     | -2961 Mar 24 j 14:27 | 0° $\approx$                   |            |                     | -2959 Oct 29 j 06:03 | 0° $\mathcal{A}$        |            |
|                     | -2961 Apr 19 j 07:02 | 0° $\mathbb{H}$                |            | evening max el      | -2959 Nov 15 j 09:51 | 18° $\mathcal{A}$ 22'29 | 47°14'48   |
|                     | -2961 May 14 j 12:20 | 0° $\Upsilon$                  |            |                     | -2959 Nov 27 j 07:16 | 0° $\mathcal{B}$        |            |
|                     | -2961 Jun 08 j 08:23 | 0° $\mathcal{B}$               |            | asc. node           | -2959 Dec 13 j 23:31 | 13° $\mathcal{B}$ 38'00 |            |
| asc. node           | -2961 Jun 29 j 05:28 | 25° $\mathcal{B}$ 33'20        |            | greatest brilliancy | -2959 Dec 25 j 13:34 | 19° $\mathcal{B}$ 59'26 | -4.9m      |
|                     | -2961 Jul 02 j 20:01 | 0° $\mathbb{I}$                |            | retrograde          | -2958 Jan 05 j 09:56 | 22° $\mathcal{B}$ 14'24 |            |
| morning set         | -2961 Jul 20 j 22:54 | 22° $\mathbb{I}$ 27'05         |            | evening set         | -2958 Jan 22 j 12:14 | 16° $\mathcal{B}$ 25'54 |            |
|                     | -2961 Jul 27 j 00:17 | 0° $\mathcal{C}$               |            | min. Earth dist.    | -2958 Jan 25 j 15:46 | 14° $\mathcal{B}$ 27'53 | 0.28346 AU |
|                     | -2961 Aug 19 j 23:09 | 0° $\Omega$                    |            | inferior conj       | -2958 Jan 26 j 12:35 | 13° $\mathcal{B}$ 54'46 | 8°01'54    |
| max. Earth dist.    | -2961 Aug 24 j 23:03 | 6° $\Omega$ 16'51              | 1.71361 AU | minimum elong       | -2958 Jan 26 j 06:58 | 14° $\mathcal{B}$ 03'41 | 8°01'18    |
|                     |                      |                                |            | morning rise        | -2958 Jan 30 j 02:06 | 11° $\mathcal{B}$ 40'56 |            |
| superior conj       | -2961 Aug 27 j 13:46 | 9° $\Omega$ 34'04              | 1°23'45    | direct              | -2958 Feb 16 j 13:27 | 5° $\mathcal{B}$ 46'39  |            |
| minimum elong       | -2961 Aug 27 j 15:52 | 9° $\Omega$ 40'40              | 1°23'49    | greatest brilliancy | -2958 Feb 25 j 10:07 | 7° $\mathcal{B}$ 14'30  | -4.8m      |
|                     | -2961 Sep 12 j 19:19 | 0° $\mathbb{M}$                |            |                     | -2958 Mar 31 j 04:17 | 0° $\approx$            |            |
| evening rise        | -2961 Oct 06 j 15:50 | 0° $\Omega$ 01'38              |            | desc. node          | -2958 Apr 04 j 17:55 | 4° $\approx$ 13'24      |            |
|                     | -2961 Oct 06 j 15:19 | 0° $\Omega$                    |            | morning max el      | -2958 Apr 06 j 11:06 | 5° $\approx$ 51'02      | 45°52'09   |
| desc. node          | -2961 Oct 18 j 22:58 | 15° $\Omega$ 28'30             |            |                     | -2958 Apr 30 j 03:50 | 0° $\mathbb{H}$         |            |
|                     | -2961 Oct 30 j 12:58 | 0° $\mathbb{M}$                |            |                     | -2958 May 27 j 05:43 | 0° $\Upsilon$           |            |
|                     | -2961 Nov 23 j 13:24 | 0° $\mathcal{A}$               |            |                     | -2958 Jun 22 j 01:26 | 0° $\mathcal{B}$        |            |
|                     | -2961 Dec 17 j 18:02 | 0° $\mathcal{B}$               |            |                     | -2958 Jul 17 j 02:07 | 0° $\mathbb{I}$         |            |
|                     | -2960 Jan 11 j 05:48 | 0° $\approx$                   |            | asc. node           | -2958 Jul 26 j 17:28 | 11° $\mathbb{I}$ 45'27  |            |
|                     | -2960 Feb 05 j 06:17 | 0° $\mathbb{H}$                |            |                     | -2958 Aug 10 j 12:54 | 0° $\mathcal{C}$        |            |
| asc. node           | -2960 Feb 08 j 21:16 | 4° $\mathbb{H}$ 16'02          |            |                     | -2958 Sep 03 j 14:02 | 0° $\Omega$             |            |
|                     | -2960 Mar 02 j 05:41 | 0° $\Upsilon$                  |            | greatest brilliancy | -2958 Sep 15 j 07:05 | 14° $\Omega$ 43'24      | -3.9m      |
|                     | -2960 Mar 30 j 03:38 | 0° $\mathcal{B}$               |            |                     | -2958 Sep 27 j 09:50 | 0° $\mathbb{M}$         |            |
| evening max el      | -2960 Apr 08 j 11:11 | 9° $\mathcal{B}$ 09'34         | 45°09'49   | morning set         | -2958 Oct 01 j 12:00 | 5° $\mathbb{M}$ 09'44   |            |
|                     | -2960 May 03 j 18:30 | 0° $\mathbb{I}$                |            |                     | -2958 Oct 21 j 04:13 | 0° $\Omega$             |            |
| greatest brilliancy | -2960 May 16 j 06:14 | 6° $\mathbb{I}$ 25'45          | -4.7m      |                     |                      |                         |            |
| retrograde          | -2960 May 26 j 19:21 | 8° $\mathbb{I}$ 24'47          |            | superior conj       | -2958 Nov 11 j 18:46 | 27° $\Omega$ 13'12      | 0°08'39    |
| desc. node          | -2960 May 30 j 15:07 | 8° $\mathbb{I}$ 07'37          |            | minimum elong       | -2958 Nov 11 j 21:07 | 27° $\Omega$ 20'36      | 0°08'30    |
| evening set         | -2960 Jun 10 j 20:37 | 4° $\mathbb{I}$ 06'32          |            | behind sun begin    | -2958 Nov 10 j 21:42 | 26° $\Omega$ 06'58      |            |
| inferior conj       | -2960 Jun 17 j 03:01 | 0° $\mathbb{I}$ 26'22          | -3°57'57   | behind sun end      | -2958 Nov 12 j 20:32 | 28° $\Omega$ 34'13      |            |
| minimum elong       | -2960 Jun 16 j 18:57 | 0° $\mathbb{I}$ 38'43          | 3°55'44    |                     | -2958 Nov 13 j 23:49 | 0° $\mathbb{M}$         |            |
| min. Earth dist.    | -2960 Jun 17 j 11:54 | 0° $\mathbb{I}$ 12'45          | 0.28453 AU | desc. node          | -2958 Nov 15 j 11:01 | 1° $\mathbb{M}$ 50'39   |            |
|                     | -2960 Jun 17 j 20:13 | 30° $\mathbb{R}$ $\mathcal{B}$ |            | max. Earth dist.    | -2958 Nov 15 j 19:50 | 2° $\mathbb{M}$ 18'20   | 1.71109 AU |
| morning rise        | -2960 Jun 22 j 16:41 | 27° $\mathcal{B}$ 07'21        |            |                     | -2958 Dec 07 j 21:53 | 0° $\mathcal{A}$        |            |
| direct              | -2960 Jul 08 j 16:10 | 22° $\mathcal{B}$ 15'37        |            | evening rise        | -2958 Dec 23 j 23:23 | 20° $\mathcal{A}$ 03'38 |            |
| greatest brilliancy | -2960 Jul 19 j 18:20 | 24° $\mathcal{B}$ 28'43        | -4.8m      |                     | -2958 Dec 31 j 22:59 | 0° $\mathcal{B}$        |            |
|                     | -2960 Jul 30 j 09:54 | 0° $\mathbb{I}$                |            |                     | -2957 Jan 25 j 03:58 | 0° $\approx$            |            |
| morning max el      | -2960 Aug 27 j 15:36 | 23° $\mathbb{I}$ 55'00         | 46°31'28   |                     | -2957 Feb 18 j 14:29 | 0° $\mathbb{H}$         |            |
|                     | -2960 Sep 02 j 15:09 | 0° $\mathcal{C}$               |            | asc. node           | -2957 Mar 08 j 09:23 | 21° $\mathbb{H}$ 35'29  |            |
| asc. node           | -2960 Sep 20 j 14:48 | 19° $\mathcal{C}$ 31'33        |            |                     | -2957 Mar 15 j 08:59 | 0° $\Upsilon$           |            |
|                     | -2960 Sep 29 j 18:57 | 0° $\Omega$                    |            |                     | -2957 Apr 09 j 14:50 | 0° $\mathcal{B}$        |            |
|                     | -2960 Oct 25 j 01:38 | 0° $\mathbb{M}$                |            |                     | -2957 May 05 j 13:52 | 0° $\mathbb{I}$         |            |
|                     | -2960 Nov 18 j 14:45 | 0° $\Omega$                    |            |                     | -2957 Jun 01 j 20:16 | 0° $\mathcal{C}$        |            |
|                     | -2960 Dec 12 j 22:10 | 0° $\mathbb{M}$                |            | evening max el      | -2957 Jun 20 j 13:07 | 18° $\mathcal{C}$ 58'18 | 45°57'04   |
|                     | -2959 Jan 06 j 05:13 | 0° $\mathcal{A}$               |            | desc. node          | -2957 Jun 28 j 02:54 | 26° $\mathcal{C}$ 02'04 |            |
| desc. node          | -2959 Jan 10 j 08:56 | 5° $\mathcal{A}$ 07'31         |            |                     | -2957 Jul 02 j 15:10 | 0° $\Omega$             |            |
|                     | -2959 Jan 30 j 13:36 | 0° $\mathcal{B}$               |            | greatest brilliancy | -2957 Jul 30 j 16:15 | 17° $\Omega$ 51'39      | -4.8m      |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 90

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| retrograde          | -2957 Aug 08 j 20:43 | 19°Ω23'35 |            | max. Earth dist.    | -2954 Jan 31 j 10:31 | 19°♄42'33 | 1.72621 AU |
| evening set         | -2957 Aug 26 j 19:18 | 13°Ω25'09 |            |                     | -2954 Feb 08 j 18:08 | 0°♊       |            |
| inferior conj       | -2957 Aug 29 j 16:10 | 11°Ω41'40 | -8°51'34   |                     | -2954 Mar 05 j 01:58 | 0°♋       |            |
| minimum elong       | -2957 Aug 29 j 19:16 | 11°Ω36'57 | 8°51'22    | evening rise        | -2954 Mar 07 j 09:29 | 2°♌50'40  |            |
| min. Earth dist.    | -2957 Aug 30 j 04:32 | 11°Ω22'54 | 0.27154 AU | greatest brilliancy | -2954 Mar 07 j 18:52 | 3°♌19'32  | -3.9m      |
| morning rise        | -2957 Sep 01 j 19:07 | 9°Ω49'04  |            |                     | -2954 Mar 29 j 12:57 | 0°♍       |            |
| direct              | -2957 Sep 19 j 11:06 | 3°Ω55'25  |            | asc. node           | -2954 Apr 04 j 21:27 | 7°♍45'49  |            |
| greatest brilliancy | -2957 Sep 30 j 06:57 | 6°Ω07'58  | -4.9m      |                     | -2954 Apr 23 j 03:34 | 0°♎       |            |
| asc. node           | -2957 Oct 19 j 02:14 | 17°Ω51'12 |            |                     | -2954 May 17 j 22:31 | 0°♏       |            |
|                     | -2957 Nov 01 j 16:47 | 0°♐       |            |                     | -2954 Jun 11 j 23:23 | 0°♑       |            |
| morning max el      | -2957 Nov 09 j 07:01 | 7°♐34'17  | 46°53'20   |                     | -2954 Jul 07 j 09:49 | 0°♒       |            |
|                     | -2957 Nov 30 j 01:29 | 0°♑       |            | desc. node          | -2954 Jul 25 j 14:47 | 20°♒59'49 |            |
|                     | -2957 Dec 26 j 01:44 | 0°♒       |            |                     | -2954 Aug 02 j 14:08 | 0°♓       |            |
|                     | -2956 Jan 20 j 08:27 | 0°♓       |            |                     | -2954 Aug 30 j 11:40 | 0°♑       |            |
| desc. node          | -2956 Feb 07 j 20:53 | 22°♓11'40 |            | evening max el      | -2954 Sep 02 j 04:46 | 2°♑43'50  | 47°19'21   |
|                     | -2956 Feb 14 j 08:43 | 0°♄       |            |                     | -2954 Oct 04 j 21:38 | 0°♒       |            |
|                     | -2956 Mar 10 j 05:48 | 0°♅       |            | greatest brilliancy | -2954 Oct 13 j 05:39 | 3°♒57'17  | -4.9m      |
|                     | -2956 Apr 04 j 00:17 | 0°♆       |            | retrograde          | -2954 Oct 22 j 21:08 | 5°♒44'26  |            |
|                     | -2956 Apr 28 j 15:53 | 0°♇       |            | evening set         | -2954 Nov 06 j 10:27 | 1°♒30'55  |            |
| morning set         | -2956 May 11 j 00:24 | 15°♇06'20 |            |                     | -2954 Nov 09 j 02:26 | 30°♒♄     |            |
|                     | -2956 May 23 j 03:54 | 0°♈       |            | inferior conj       | -2954 Nov 12 j 11:20 | 27°♄57'13 | -0°47'59   |
| asc. node           | -2956 May 30 j 19:38 | 9°♈24'55  |            | minimum elong       | -2954 Nov 12 j 13:08 | 27°♄54'27 | 0°47'27    |
| max. Earth dist.    | -2956 Jun 12 j 00:11 | 24°♈27'04 | 1.73076 AU | min. Earth dist.    | -2954 Nov 12 j 01:42 | 28°♄12'00 | 0.26418 AU |
|                     |                      |           |            | asc. node           | -2954 Nov 15 j 13:52 | 26°♄04'03 |            |
| superior conj       | -2956 Jun 15 j 23:59 | 29°♈23'06 | 0°36'54    | morning rise        | -2954 Nov 18 j 16:07 | 24°♄19'04 |            |
| minimum elong       | -2956 Jun 15 j 17:19 | 29°♈02'30 | 0°36'41    | direct              | -2954 Dec 02 j 16:20 | 20°♄21'07 |            |
|                     | -2956 Jun 16 j 11:55 | 0°♉       |            | greatest brilliancy | -2954 Dec 12 j 11:01 | 22°♄10'05 | -4.9m      |
|                     | -2956 Jul 10 j 16:10 | 0°♊       |            |                     | -2954 Dec 26 j 19:13 | 0°♋       |            |
| evening rise        | -2956 Jul 22 j 00:04 | 14°♊06'22 |            | morning max el      | -2953 Jan 21 j 14:13 | 22°♋26'38 | 46°27'37   |
|                     | -2956 Aug 03 j 17:55 | 0°♌       |            |                     | -2953 Jan 29 j 01:42 | 0°♌       |            |
|                     | -2956 Aug 27 j 19:04 | 0°♍       |            |                     | -2953 Feb 25 j 20:13 | 0°♍       |            |
| desc. node          | -2956 Sep 19 j 12:51 | 28°♍18'40 |            | desc. node          | -2953 Mar 07 j 08:31 | 10°♍43'14 |            |
|                     | -2956 Sep 20 j 21:29 | 0°♎       |            |                     | -2953 Mar 24 j 04:03 | 0°♎       |            |
|                     | -2956 Oct 15 j 02:49 | 0°♏       |            |                     | -2953 Apr 18 j 19:26 | 0°♏       |            |
|                     | -2956 Nov 08 j 13:27 | 0°♐       |            |                     | -2953 May 14 j 00:02 | 0°♐       |            |
|                     | -2956 Dec 03 j 10:31 | 0°♑       |            |                     | -2953 Jun 07 j 19:42 | 0°♑       |            |
|                     | -2956 Dec 29 j 06:18 | 0°♒       |            | asc. node           | -2953 Jun 28 j 07:38 | 25°♑05'37 |            |
| asc. node           | -2955 Jan 10 j 11:24 | 13°♒28'42 |            |                     | -2953 Jul 02 j 07:10 | 0°♒       |            |
| evening max el      | -2955 Jan 25 j 09:14 | 28°♒55'09 | 45°52'42   | morning set         | -2953 Jul 18 j 15:19 | 20°♒14'22 |            |
|                     | -2955 Jan 26 j 11:36 | 0°♋       |            |                     | -2953 Jul 26 j 11:23 | 0°♓       |            |
| greatest brilliancy | -2955 Mar 04 j 19:21 | 27°♋44'03 | -4.7m      |                     | -2953 Aug 19 j 10:17 | 0°♑       |            |
| retrograde          | -2955 Mar 15 j 12:36 | 29°♋49'51 |            | max. Earth dist.    | -2953 Aug 22 j 11:08 | 3°♑48'53  | 1.71406 AU |
| evening set         | -2955 Apr 01 j 00:10 | 24°♋37'26 |            |                     |                      |           |            |
| inferior conj       | -2955 Apr 06 j 00:10 | 21°♋32'32 | 5°30'12    | superior conj       | -2953 Aug 25 j 03:59 | 7°♑12'45  | 1°24'02    |
| minimum elong       | -2955 Apr 06 j 09:08 | 21°♋18'18 | 5°28'18    | minimum elong       | -2953 Aug 25 j 05:14 | 7°♑16'42  | 1°24'06    |
| min. Earth dist.    | -2955 Apr 06 j 11:43 | 21°♋14'13 | 0.29244 AU |                     | -2953 Sep 12 j 06:30 | 0°♐       |            |
| morning rise        | -2955 Apr 11 j 18:02 | 18°♋01'15 |            | evening rise        | -2953 Oct 04 j 02:02 | 27°♐27'22 |            |
| direct              | -2955 Apr 27 j 18:05 | 13°♋07'47 |            |                     | -2953 Oct 06 j 02:36 | 0°♑       |            |
| desc. node          | -2955 May 02 j 05:29 | 13°♋30'14 |            | desc. node          | -2953 Oct 18 j 01:02 | 14°♑59'19 |            |
| greatest brilliancy | -2955 May 08 j 03:46 | 15°♋03'49 | -4.7m      |                     | -2953 Oct 30 j 00:23 | 0°♒       |            |
|                     | -2955 Jun 01 j 03:01 | 0°♍       |            |                     | -2953 Nov 23 j 00:59 | 0°♓       |            |
| morning max el      | -2955 Jun 15 j 15:59 | 13°♍00'42 | 45°54'15   |                     | -2953 Dec 17 j 05:51 | 0°♄       |            |
|                     | -2955 Jul 02 j 11:22 | 0°♆       |            |                     | -2952 Jan 10 j 18:03 | 0°♅       |            |
|                     | -2955 Jul 29 j 13:39 | 0°♇       |            |                     | -2952 Feb 04 j 19:23 | 0°♆       |            |
| asc. node           | -2955 Aug 23 j 05:14 | 29°♇02'08 |            | asc. node           | -2952 Feb 07 j 23:18 | 3°♇43'07  |            |
|                     | -2955 Aug 24 j 00:28 | 0°♈       |            |                     | -2952 Mar 01 j 20:39 | 0°♇       |            |
|                     | -2955 Sep 17 j 13:57 | 0°♉       |            |                     | -2952 Mar 29 j 23:33 | 0°♈       |            |
|                     | -2955 Oct 11 j 16:00 | 0°♊       |            | evening max el      | -2952 Apr 06 j 03:27 | 6°♈59'53  | 45°09'51   |
|                     | -2955 Nov 04 j 13:32 | 0°♋       |            |                     | -2952 May 04 j 23:23 | 0°♉       |            |
|                     | -2955 Nov 28 j 11:02 | 0°♌       |            | greatest brilliancy | -2952 May 13 j 20:09 | 4°♉12'40  | -4.7m      |
| desc. node          | -2955 Dec 12 j 23:05 | 18°♌09'15 |            | retrograde          | -2952 May 24 j 11:01 | 6°♉12'44  |            |
| morning set         | -2955 Dec 17 j 16:41 | 24°♌04'09 |            | desc. node          | -2952 May 29 j 17:17 | 5°♉40'11  |            |
|                     | -2955 Dec 22 j 10:41 | 0°♍       |            | evening set         | -2952 Jun 08 j 10:41 | 1°♉55'57  |            |
|                     | -2954 Jan 15 j 13:04 | 0°♎       |            |                     | -2952 Jun 11 j 20:16 | 30°♉♄     |            |
|                     |                      |           |            | inferior conj       | -2952 Jun 14 j 18:22 | 28°♉13'34 | -3°39'23   |
| superior conj       | -2954 Jan 27 j 19:07 | 15°♊11'56 | -1°20'29   | minimum elong       | -2952 Jun 14 j 10:49 | 28°♉25'09 | 3°37'15    |
| minimum elong       | -2954 Jan 27 j 13:06 | 14°♊53'19 | 1°20'28    | min. Earth dist.    | -2952 Jun 15 j 03:08 | 28°♉00'08 | 0.28490 AU |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                      |            |                     |                      |                      |            |
|---------------------|----------------------|----------------------|------------|---------------------|----------------------|----------------------|------------|
| morning rise        | -2952 Jun 20 j 10:27 | 24° $\text{♄}$ 51'12 |            | evening rise        | -2950 Dec 07 j 09:12 | 0° $\text{♄}$        |            |
| direct              | -2952 Jul 06 j 08:33 | 20° $\text{♄}$ 02'12 |            |                     | -2950 Dec 21 j 09:51 | 17° $\text{♄}$ 31'18 |            |
| greatest brilliancy | -2952 Jul 17 j 09:32 | 22° $\text{♄}$ 14'31 | -4.8m      |                     | -2950 Dec 31 j 10:17 | 0° $\text{♄}$        |            |
|                     | -2952 Jul 31 j 09:29 | 0° $\text{♄}$        |            |                     | -2949 Jan 24 j 15:20 | 0° $\text{♄}$        |            |
| morning max el      | -2952 Aug 25 j 07:32 | 21° $\text{♄}$ 39'29 | 46°30'03   |                     | -2949 Feb 18 j 02:02 | 0° $\text{♄}$        |            |
|                     | -2952 Sep 02 j 11:17 | 0° $\text{♄}$        |            | asc. node           | -2949 Mar 07 j 11:25 | 21° $\text{♄}$ 06'02 |            |
| asc. node           | -2952 Sep 19 j 16:49 | 18° $\text{♄}$ 50'22 |            |                     | -2949 Mar 14 j 20:57 | 0° $\text{♄}$        |            |
|                     | -2952 Sep 29 j 10:26 | 0° $\text{♄}$        |            |                     | -2949 Apr 09 j 03:40 | 0° $\text{♄}$        |            |
|                     | -2952 Oct 24 j 15:17 | 0° $\text{♄}$        |            |                     | -2949 May 05 j 04:25 | 0° $\text{♄}$        |            |
|                     | -2952 Nov 18 j 03:27 | 0° $\text{♄}$        |            |                     | -2949 Jun 01 j 14:40 | 0° $\text{♄}$        |            |
|                     | -2952 Dec 12 j 10:18 | 0° $\text{♄}$        |            | evening max el      | -2949 Jun 18 j 02:06 | 16° $\text{♄}$ 36'47 | 45°54'09   |
|                     | -2951 Jan 05 j 16:57 | 0° $\text{♄}$        |            | desc. node          | -2949 Jun 27 j 05:05 | 25° $\text{♄}$ 03'23 |            |
| desc. node          | -2951 Jan 09 j 11:05 | 4° $\text{♄}$ 38'09  |            |                     | -2949 Jul 02 j 23:42 | 0° $\text{♄}$        |            |
|                     | -2951 Jan 30 j 01:01 | 0° $\text{♄}$        |            | greatest brilliancy | -2949 Jul 28 j 04:31 | 15° $\text{♄}$ 27'26 | -4.8m      |
|                     | -2951 Feb 23 j 10:25 | 0° $\text{♄}$        |            | retrograde          | -2949 Aug 06 j 08:25 | 16° $\text{♄}$ 59'02 |            |
| morning set         | -2951 Mar 01 j 22:02 | 7° $\text{♄}$ 57'53  |            | evening set         | -2949 Aug 24 j 08:19 | 11° $\text{♄}$ 00'18 |            |
|                     | -2951 Mar 19 j 20:43 | 0° $\text{♄}$        |            | inferior conj       | -2949 Aug 27 j 05:04 | 9° $\text{♄}$ 16'58  | -8°53'49   |
|                     |                      |                      |            | minimum elong       | -2949 Aug 27 j 07:13 | 9° $\text{♄}$ 13'42  | 8°53'41    |
| superior conj       | -2951 Apr 07 j 22:41 | 23° $\text{♄}$ 25'08 | -0°53'05   | min. Earth dist.    | -2949 Aug 27 j 17:38 | 8° $\text{♄}$ 57'53  | 0.27206 AU |
| minimum elong       | -2951 Apr 08 j 07:14 | 23° $\text{♄}$ 51'22 | 0°52'46    | morning rise        | -2949 Aug 30 j 05:59 | 7° $\text{♄}$ 27'10  |            |
| max. Earth dist.    | -2951 Apr 07 j 16:14 | 23° $\text{♄}$ 05'20 | 1.73699 AU | direct              | -2949 Sep 17 j 00:12 | 1° $\text{♄}$ 29'45  |            |
|                     | -2951 Apr 13 j 07:22 | 0° $\text{♄}$        |            | greatest brilliancy | -2949 Sep 27 j 21:19 | 3° $\text{♄}$ 42'46  | -4.9m      |
| asc. node           | -2951 May 02 j 09:41 | 23° $\text{♄}$ 26'20 |            | asc. node           | -2949 Oct 18 j 04:26 | 16° $\text{♄}$ 39'26 |            |
|                     | -2951 May 07 j 17:54 | 0° $\text{♄}$        |            |                     | -2949 Nov 01 j 18:34 | 0° $\text{♄}$        |            |
| evening rise        | -2951 May 14 j 01:08 | 7° $\text{♄}$ 44'26  |            | morning max el      | -2949 Nov 06 j 19:20 | 5° $\text{♄}$ 04'02  | 46°53'20   |
|                     | -2951 Jun 01 j 03:57 | 0° $\text{♄}$        |            |                     | -2949 Nov 29 j 19:01 | 0° $\text{♄}$        |            |
|                     | -2951 Jun 25 j 13:46 | 0° $\text{♄}$        |            |                     | -2949 Dec 25 j 16:25 | 0° $\text{♄}$        |            |
|                     | -2951 Jul 20 j 00:30 | 0° $\text{♄}$        |            |                     | -2948 Jan 19 j 21:40 | 0° $\text{♄}$        |            |
|                     | -2951 Aug 13 j 14:13 | 0° $\text{♄}$        |            | desc. node          | -2948 Feb 06 j 22:49 | 21° $\text{♄}$ 39'48 |            |
| desc. node          | -2951 Aug 22 j 02:45 | 10° $\text{♄}$ 20'36 |            |                     | -2948 Feb 13 j 21:02 | 0° $\text{♄}$        |            |
|                     | -2951 Sep 07 j 09:51 | 0° $\text{♄}$        |            |                     | -2948 Mar 09 j 17:31 | 0° $\text{♄}$        |            |
|                     | -2951 Oct 02 j 16:38 | 0° $\text{♄}$        |            |                     | -2948 Apr 03 j 11:36 | 0° $\text{♄}$        |            |
|                     | -2951 Oct 29 j 00:08 | 0° $\text{♄}$        |            |                     | -2948 Apr 28 j 02:55 | 0° $\text{♄}$        |            |
| evening max el      | -2951 Nov 13 j 02:26 | 16° $\text{♄}$ 05'38 | 47°16'57   | morning set         | -2948 May 08 j 19:28 | 13° $\text{♄}$ 04'12 |            |
|                     | -2951 Nov 27 j 11:53 | 0° $\text{♄}$        |            |                     | -2948 May 22 j 14:50 | 0° $\text{♄}$        |            |
| asc. node           | -2951 Dec 13 j 01:44 | 12° $\text{♄}$ 17'45 |            | asc. node           | -2948 May 29 j 21:48 | 8° $\text{♄}$ 57'58  |            |
| greatest brilliancy | -2951 Dec 23 j 05:49 | 17° $\text{♄}$ 42'40 | -4.9m      | max. Earth dist.    | -2948 Jun 09 j 20:06 | 22° $\text{♄}$ 26'38 | 1.73129 AU |
| retrograde          | -2950 Jan 03 j 02:34 | 19° $\text{♄}$ 57'30 |            |                     |                      |                      |            |
| evening set         | -2950 Jan 20 j 01:27 | 14° $\text{♄}$ 13'36 |            | superior conj       | -2948 Jun 13 j 18:44 | 27° $\text{♄}$ 18'53 | 0°34'06    |
| min. Earth dist.    | -2950 Jan 23 j 06:13 | 12° $\text{♄}$ 13'38 | 0.28273 AU | minimum elong       | -2948 Jun 13 j 12:28 | 26° $\text{♄}$ 59'34 | 0°33'53    |
| inferior conj       | -2950 Jan 24 j 04:16 | 11° $\text{♄}$ 38'31 | 7°55'50    |                     | -2948 Jun 15 j 22:51 | 0° $\text{♄}$        |            |
| minimum elong       | -2950 Jan 23 j 22:05 | 11° $\text{♄}$ 48'23 | 7°55'06    |                     | -2948 Jul 10 j 03:13 | 0° $\text{♄}$        |            |
| morning rise        | -2950 Jan 27 j 19:10 | 9° $\text{♄}$ 22'39  |            | evening rise        | -2948 Jul 19 j 17:20 | 11° $\text{♄}$ 55'59 |            |
| direct              | -2950 Feb 14 j 04:50 | 3° $\text{♄}$ 31'55  |            |                     | -2948 Aug 03 j 05:10 | 0° $\text{♄}$        |            |
| greatest brilliancy | -2950 Feb 22 j 23:36 | 4° $\text{♄}$ 58'24  | -4.8m      |                     | -2948 Aug 27 j 06:34 | 0° $\text{♄}$        |            |
|                     | -2950 Mar 31 j 05:33 | 0° $\text{♄}$        |            | desc. node          | -2948 Sep 18 j 14:57 | 27° $\text{♄}$ 48'34 |            |
| desc. node          | -2950 Apr 03 j 20:03 | 3° $\text{♄}$ 23'18  |            |                     | -2948 Sep 20 j 09:18 | 0° $\text{♄}$        |            |
| morning max el      | -2950 Apr 04 j 02:32 | 3° $\text{♄}$ 38'46  | 45°52'42   |                     | -2948 Oct 14 j 15:03 | 0° $\text{♄}$        |            |
|                     | -2950 Apr 29 j 20:28 | 0° $\text{♄}$        |            |                     | -2948 Nov 08 j 02:17 | 0° $\text{♄}$        |            |
|                     | -2950 May 26 j 19:34 | 0° $\text{♄}$        |            |                     | -2948 Dec 03 j 00:23 | 0° $\text{♄}$        |            |
|                     | -2950 Jun 21 j 14:00 | 0° $\text{♄}$        |            |                     | -2948 Dec 28 j 22:21 | 0° $\text{♄}$        |            |
|                     | -2950 Jul 16 j 14:00 | 0° $\text{♄}$        |            | asc. node           | -2947 Jan 09 j 13:27 | 12° $\text{♄}$ 46'09 |            |
| asc. node           | -2950 Jul 25 j 19:32 | 11° $\text{♄}$ 15'51 |            | evening max el      | -2947 Jan 22 j 23:36 | 26° $\text{♄}$ 38'14 | 45°55'32   |
|                     | -2950 Aug 10 j 00:26 | 0° $\text{♄}$        |            |                     | -2947 Jan 26 j 10:16 | 0° $\text{♄}$        |            |
|                     | -2950 Sep 03 j 01:24 | 0° $\text{♄}$        |            | greatest brilliancy | -2947 Mar 02 j 12:31 | 25° $\text{♄}$ 36'31 | -4.7m      |
| greatest brilliancy | -2950 Sep 14 j 23:04 | 14° $\text{♄}$ 57'58 | -3.9m      | retrograde          | -2947 Mar 13 j 05:32 | 27° $\text{♄}$ 42'47 |            |
|                     | -2950 Sep 26 j 21:10 | 0° $\text{♄}$        |            | evening set         | -2947 Mar 29 j 19:37 | 22° $\text{♄}$ 26'10 |            |
| morning set         | -2950 Sep 28 j 23:37 | 2° $\text{♄}$ 39'09  |            | inferior conj       | -2947 Apr 03 j 17:13 | 19° $\text{♄}$ 24'55 | 5°44'08    |
|                     | -2950 Oct 20 j 15:34 | 0° $\text{♄}$        |            | minimum elong       | -2947 Apr 04 j 02:15 | 19° $\text{♄}$ 10'35 | 5°42'16    |
|                     |                      |                      |            | min. Earth dist.    | -2947 Apr 04 j 04:28 | 19° $\text{♄}$ 07'04 | 0.29248 AU |
| superior conj       | -2950 Nov 09 j 03:35 | 24° $\text{♄}$ 34'19 | 0°12'39    | morning rise        | -2947 Apr 09 j 08:46 | 15° $\text{♄}$ 56'49 |            |
| minimum elong       | -2950 Nov 09 j 07:01 | 24° $\text{♄}$ 45'06 | 0°12'27    | direct              | -2947 Apr 25 j 10:15 | 10° $\text{♄}$ 59'58 |            |
| behind sun begin    | -2950 Nov 08 j 13:14 | 23° $\text{♄}$ 49'09 |            | desc. node          | -2947 May 01 j 07:37 | 11° $\text{♄}$ 38'28 |            |
| behind sun end      | -2950 Nov 10 j 00:48 | 25° $\text{♄}$ 41'03 |            | greatest brilliancy | -2947 May 05 j 19:59 | 12° $\text{♄}$ 55'50 | -4.7m      |
| max. Earth dist.    | -2950 Nov 13 j 02:09 | 29° $\text{♄}$ 31'38 | 1.71073 AU |                     | -2947 Jun 01 j 08:56 | 0° $\text{♄}$        |            |
|                     | -2950 Nov 13 j 11:10 | 0° $\text{♄}$        |            | morning max el      | -2947 Jun 13 j 08:10 | 10° $\text{♄}$ 51'06 | 45°53'31   |
| desc. node          | -2950 Nov 14 j 13:11 | 1° $\text{♄}$ 21'47  |            |                     | -2947 Jul 02 j 04:46 | 0° $\text{♄}$        |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2947 Jul 29 j 03:48 | 0°♄       |            |                     | -2944 Feb 04 j 08:27 | 0°♁       |            |
| asc. node           | -2947 Aug 22 j 07:17 | 28°♄29'38 |            | asc. node           | -2944 Feb 07 j 01:22 | 3°♁10'28  |            |
|                     | -2947 Aug 23 j 13:17 | 0°♄       |            |                     | -2944 Mar 01 j 11:40 | 0°♁       |            |
|                     | -2947 Sep 17 j 02:06 | 0°♄       |            |                     | -2944 Mar 29 j 19:57 | 0°♁       |            |
|                     | -2947 Oct 11 j 03:47 | 0°♄       |            | evening max el      | -2944 Apr 03 j 20:08 | 4°♁51'34  | 45°09'56   |
|                     | -2947 Nov 04 j 01:05 | 0°♄       |            |                     | -2944 May 06 j 16:43 | 0°♄       |            |
|                     | -2947 Nov 27 j 22:25 | 0°♄       |            | greatest brilliancy | -2944 May 11 j 10:48 | 2°♄01'10  | -4.7m      |
| desc. node          | -2947 Dec 12 j 01:12 | 17°♄40'27 |            | retrograde          | -2944 May 22 j 02:23 | 4°♄01'30  |            |
| morning set         | -2947 Dec 15 j 02:28 | 21°♄29'28 |            | desc. node          | -2944 May 28 j 19:25 | 3°♄08'42  |            |
|                     | -2947 Dec 21 j 21:57 | 0°♄       |            |                     | -2944 Jun 05 j 14:42 | 30°♁      |            |
|                     | -2946 Jan 15 j 00:14 | 0°♄       |            | evening set         | -2944 Jun 06 j 01:04 | 29°♁46'15 |            |
|                     |                      |           |            | inferior conj       | -2944 Jun 12 j 09:49 | 26°♁01'52 | -3°20'30   |
| superior conj       | -2946 Jan 25 j 08:07 | 12°♄49'06 | -1°19'21   | minimum elong       | -2944 Jun 12 j 02:50 | 26°♁12'37 | 3°18'31    |
| minimum elong       | -2946 Jan 25 j 01:19 | 12°♄28'02 | 1°19'20    | min. Earth dist.    | -2944 Jun 12 j 18:36 | 25°♁48'22 | 0.28521 AU |
| max. Earth dist.    | -2946 Jan 28 j 22:51 | 17°♄17'51 | 1.72565 AU | morning rise        | -2944 Jun 18 j 04:07 | 22°♁36'09 |            |
|                     | -2946 Feb 08 j 05:12 | 0°♄       |            | direct              | -2944 Jul 04 j 00:56 | 17°♁50'06 |            |
|                     | -2946 Mar 04 j 12:59 | 0°♁       |            | greatest brilliancy | -2944 Jul 15 j 00:30 | 20°♁01'07 | -4.8m      |
| evening rise        | -2946 Mar 05 j 01:22 | 0°♁38'04  |            |                     | -2944 Aug 01 j 02:25 | 0°♄       |            |
| greatest brilliancy | -2946 Mar 05 j 22:09 | 1°♁41'55  | -3.9m      | morning max el      | -2944 Aug 22 j 22:41 | 19°♄23'16 | 46°28'37   |
|                     | -2946 Mar 29 j 00:02 | 0°♁       |            |                     | -2944 Sep 02 j 06:25 | 0°♄       |            |
| asc. node           | -2946 Apr 03 j 23:40 | 7°♁18'37  |            | asc. node           | -2944 Sep 18 j 19:05 | 18°♄11'20 |            |
|                     | -2946 Apr 22 j 14:53 | 0°♁       |            |                     | -2944 Sep 29 j 01:23 | 0°♄       |            |
|                     | -2946 May 17 j 10:19 | 0°♄       |            |                     | -2944 Oct 24 j 04:35 | 0°♄       |            |
|                     | -2946 Jun 11 j 12:00 | 0°♄       |            |                     | -2944 Nov 17 j 15:55 | 0°♄       |            |
|                     | -2946 Jul 06 j 23:49 | 0°♄       |            |                     | -2944 Dec 11 j 22:15 | 0°♄       |            |
| desc. node          | -2946 Jul 24 j 16:43 | 20°♄21'09 |            |                     | -2943 Jan 05 j 04:31 | 0°♁       |            |
|                     | -2946 Aug 02 j 06:43 | 0°♄       |            | desc. node          | -2943 Jan 08 j 13:07 | 4°♁08'52  |            |
|                     | -2946 Aug 30 j 10:44 | 0°♄       |            |                     | -2943 Jan 29 j 12:15 | 0°♄       |            |
| evening max el      | -2946 Aug 30 j 18:09 | 0°♄18'29  | 47°17'21   |                     | -2943 Feb 22 j 21:24 | 0°♄       |            |
|                     | -2946 Oct 07 j 05:13 | 0°♄       |            | morning set         | -2943 Feb 27 j 13:33 | 5°♄44'32  |            |
| greatest brilliancy | -2946 Oct 10 j 19:08 | 1°♄27'34  | -4.9m      |                     | -2943 Mar 19 j 07:32 | 0°♁       |            |
| retrograde          | -2946 Oct 20 j 09:58 | 3°♄14'06  |            |                     |                      |           |            |
|                     | -2946 Nov 02 j 00:41 | 30°♁      |            | superior conj       | -2943 Apr 05 j 16:30 | 21°♁19'27 | -0°55'30   |
| evening set         | -2946 Nov 04 j 00:03 | 28°♄58'52 |            | minimum elong       | -2943 Apr 06 j 01:12 | 21°♁46'08 | 0°55'11    |
| inferior conj       | -2946 Nov 09 j 23:36 | 25°♄27'31 | -1°12'22   | max. Earth dist.    | -2943 Apr 05 j 15:09 | 21°♁15'17 | 1.73686 AU |
| minimum elong       | -2946 Nov 10 j 02:18 | 25°♄23'22 | 1°11'31    |                     | -2943 Apr 12 j 18:08 | 0°♁       |            |
| min. Earth dist.    | -2946 Nov 09 j 15:16 | 25°♄40'17 | 0.26399 AU | asc. node           | -2943 May 01 j 11:48 | 22°♁59'46 |            |
| asc. node           | -2946 Nov 14 j 16:02 | 22°♄39'53 |            |                     | -2943 May 07 j 04:43 | 0°♁       |            |
| morning rise        | -2946 Nov 16 j 04:50 | 21°♄49'25 |            | evening rise        | -2943 May 11 j 20:19 | 5°♁42'38  |            |
| direct              | -2946 Nov 30 j 04:37 | 17°♄51'41 |            |                     | -2943 May 31 j 14:55 | 0°♄       |            |
| greatest brilliancy | -2946 Dec 10 j 00:36 | 19°♄42'20 | -4.9m      |                     | -2943 Jun 25 j 00:59 | 0°♄       |            |
|                     | -2946 Dec 27 j 16:22 | 0°♄       |            |                     | -2943 Jul 19 j 12:09 | 0°♄       |            |
| morning max el      | -2945 Jan 19 j 04:43 | 20°♄05'51 | 46°29'01   |                     | -2943 Aug 13 j 02:30 | 0°♄       |            |
|                     | -2945 Jan 28 j 22:13 | 0°♁       |            | desc. node          | -2943 Aug 21 j 04:54 | 9°♄49'13  |            |
|                     | -2945 Feb 25 j 11:46 | 0°♄       |            |                     | -2943 Sep 06 j 23:05 | 0°♄       |            |
| desc. node          | -2945 Mar 06 j 10:39 | 10°♄07'46 |            |                     | -2943 Oct 02 j 07:27 | 0°♄       |            |
|                     | -2945 Mar 23 j 17:27 | 0°♄       |            |                     | -2943 Oct 28 j 18:19 | 0°♁       |            |
|                     | -2945 Apr 18 j 07:41 | 0°♁       |            | evening max el      | -2943 Nov 10 j 18:20 | 13°♁47'29 | 47°18'42   |
|                     | -2945 May 13 j 11:36 | 0°♁       |            |                     | -2943 Nov 27 j 18:20 | 0°♄       |            |
|                     | -2945 Jun 07 j 06:52 | 0°♁       |            | asc. node           | -2943 Dec 12 j 03:46 | 10°♄54'37 |            |
| asc. node           | -2945 Jun 27 j 09:44 | 24°♁38'15 |            | greatest brilliancy | -2943 Dec 20 j 22:25 | 15°♄25'58 | -4.9m      |
|                     | -2945 Jul 01 j 18:07 | 0°♄       |            | retrograde          | -2943 Dec 31 j 18:23 | 17°♄39'46 |            |
| morning set         | -2945 Jul 16 j 08:09 | 18°♄03'41 |            | evening set         | -2942 Jan 17 j 14:11 | 12°♄01'02 |            |
|                     | -2945 Jul 25 j 22:17 | 0°♄       |            | min. Earth dist.    | -2942 Jan 20 j 20:51 | 9°♄58'09  | 0.28200 AU |
|                     | -2945 Aug 18 j 21:13 | 0°♄       |            | inferior conj       | -2942 Jan 21 j 19:40 | 9°♄21'46  | 7°48'46    |
| max. Earth dist.    | -2945 Aug 19 j 22:13 | 1°♄18'31  | 1.71458 AU | minimum elong       | -2942 Jan 21 j 12:55 | 9°♄32'32  | 7°47'55    |
|                     |                      |           |            | morning rise        | -2942 Jan 25 j 12:08 | 7°♄03'24  |            |
| superior conj       | -2945 Aug 22 j 18:32 | 4°♄53'06  | 1°24'10    | direct              | -2942 Feb 11 j 19:36 | 1°♄16'38  |            |
| minimum elong       | -2945 Aug 22 j 18:56 | 4°♄54'24  | 1°24'14    | greatest brilliancy | -2942 Feb 20 j 13:28 | 2°♄42'17  | -4.8m      |
|                     | -2945 Sep 11 j 17:33 | 0°♄       |            |                     | -2942 Mar 31 j 05:28 | 0°♄       |            |
| evening rise        | -2945 Oct 01 j 12:16 | 24°♄53'26 |            | morning max el      | -2942 Apr 01 j 16:48 | 1°♄23'57  | 45°53'20   |
|                     | -2945 Oct 05 j 13:49 | 0°♄       |            | desc. node          | -2942 Apr 02 j 22:16 | 2°♄34'39  |            |
| desc. node          | -2945 Oct 17 j 03:13 | 14°♄30'49 |            |                     | -2942 Apr 29 j 12:35 | 0°♁       |            |
|                     | -2945 Oct 29 j 11:45 | 0°♄       |            |                     | -2942 May 26 j 09:03 | 0°♁       |            |
|                     | -2945 Nov 22 j 12:30 | 0°♁       |            |                     | -2942 Jun 21 j 02:14 | 0°♁       |            |
|                     | -2945 Dec 16 j 17:36 | 0°♄       |            |                     | -2942 Jul 16 j 01:34 | 0°♄       |            |
|                     | -2944 Jan 10 j 06:13 | 0°♄       |            | asc. node           | -2942 Jul 24 j 21:33 | 10°♄47'04 |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2942 Aug 09 j 11:39 | 0°☾       |            | asc. node           | -2939 Jan 08 j 15:31 | 12°☾04'17 |            |
|                     | -2942 Sep 02 j 12:27 | 0°♌       |            | evening max el      | -2939 Jan 20 j 14:29 | 24°☾23'38 | 45°58'18   |
| greatest brilliancy | -2942 Sep 14 j 15:20 | 15°♌14'33 | -3.9m      |                     | -2939 Jan 26 j 09:27 | 0°♋       |            |
| morning set         | -2942 Sep 26 j 11:45 | 0°♍11'22  |            | greatest brilliancy | -2939 Feb 28 j 04:57 | 23°♋28'46 | -4.7m      |
|                     | -2942 Sep 26 j 08:09 | 0°♍       |            | retrograde          | -2939 Mar 10 j 22:49 | 25°♋36'12 |            |
|                     | -2942 Oct 20 j 02:32 | 0°♊       |            | evening set         | -2939 Mar 27 j 15:02 | 20°♋15'10 |            |
|                     |                      |           |            | inferior conj       | -2939 Apr 01 j 10:12 | 17°♋17'33 | 5°57'33    |
| superior conj       | -2942 Nov 06 j 12:53 | 21°♊58'05 | 0°16'36    | minimum elong       | -2939 Apr 01 j 19:16 | 17°♋03'11 | 5°55'44    |
| minimum elong       | -2942 Nov 06 j 17:20 | 22°♊12'07 | 0°16'20    | min. Earth dist.    | -2939 Apr 01 j 20:53 | 17°♋00'37 | 0.29257 AU |
| behind sun begin    | -2942 Nov 06 j 15:29 | 22°♊06'19 |            | morning rise        | -2939 Apr 06 j 23:23 | 13°♋52'59 |            |
| behind sun end      | -2942 Nov 06 j 19:11 | 22°♊17'55 |            | direct              | -2939 Apr 23 j 02:43 | 8°♋52'20  |            |
| max. Earth dist.    | -2942 Nov 10 j 06:49 | 26°♊40'57 | 1.71043 AU | desc. node          | -2939 Apr 30 j 09:42 | 9°♋50'52  |            |
|                     | -2942 Nov 12 j 22:08 | 0°♍       |            | greatest brilliancy | -2939 May 03 j 11:59 | 10°♋48'01 | -4.7m      |
| desc. node          | -2942 Nov 13 j 15:16 | 0°♍53'51  |            |                     | -2939 Jun 01 j 12:46 | 0°♍       |            |
|                     | -2942 Dec 06 j 20:11 | 0°♎       |            | morning max el      | -2939 Jun 11 j 01:07 | 8°♍43'50  | 45°52'46   |
| evening rise        | -2942 Dec 18 j 20:12 | 14°♎59'33 |            |                     | -2939 Jul 01 j 21:40 | 0°♎       |            |
|                     | -2942 Dec 30 j 21:19 | 0°♎       |            |                     | -2939 Jul 28 j 17:40 | 0°♎       |            |
|                     | -2941 Jan 24 j 02:27 | 0°♎       |            | asc. node           | -2939 Aug 21 j 09:31 | 27°♎58'24 |            |
| asc. node           | -2941 Feb 17 j 13:22 | 0°♋       |            |                     | -2939 Aug 23 j 01:51 | 0°☾       |            |
|                     | -2941 Mar 06 j 13:37 | 20°♋37'42 |            |                     | -2939 Sep 16 j 14:01 | 0°♌       |            |
|                     | -2941 Mar 14 j 08:44 | 0°♍       |            |                     | -2939 Oct 10 j 15:21 | 0°♍       |            |
|                     | -2941 Apr 08 j 16:21 | 0°♎       |            |                     | -2939 Nov 03 j 12:25 | 0°♊       |            |
|                     | -2941 May 04 j 18:53 | 0°♎       |            |                     | -2939 Nov 27 j 09:35 | 0°♍       |            |
|                     | -2941 Jun 01 j 09:17 | 0°☾       |            | desc. node          | -2939 Dec 11 j 03:12 | 17°♍12'04 |            |
| evening max el      | -2941 Jun 15 j 14:27 | 14°☾14'36 | 45°51'22   | morning set         | -2939 Dec 12 j 12:34 | 18°♍56'23 |            |
| desc. node          | -2941 Jun 26 j 07:05 | 24°☾03'37 |            |                     | -2939 Dec 21 j 08:58 | 0°♎       |            |
|                     | -2941 Jul 03 j 10:49 | 0°♌       |            |                     | -2938 Jan 14 j 11:07 | 0°♎       |            |
| greatest brilliancy | -2941 Jul 25 j 16:34 | 13°♌03'49 | -4.8m      |                     |                      |           |            |
| retrograde          | -2941 Aug 03 j 20:16 | 14°♌35'41 |            | superior conj       | -2938 Jan 22 j 21:17 | 10°♎27'32 | -1°18'05   |
| evening set         | -2941 Aug 21 j 20:47 | 8°♌37'00  |            | minimum elong       | -2938 Jan 22 j 13:45 | 10°♎04'11 | 1°18'02    |
| inferior conj       | -2941 Aug 24 j 17:55 | 6°♌53'15  | -8°55'04   | max. Earth dist.    | -2938 Jan 26 j 12:39 | 14°♎58'23 | 1.72509 AU |
| minimum elong       | -2941 Aug 24 j 19:08 | 6°♌51'25  | 8°54'59    |                     | -2938 Feb 07 j 15:59 | 0°♎       |            |
| min. Earth dist.    | -2941 Aug 25 j 06:44 | 6°♌33'48  | 0.27255 AU | evening rise        | -2938 Mar 02 j 17:28 | 28°♎26'51 |            |
| morning rise        | -2941 Aug 27 j 17:20 | 5°♌05'43  |            |                     | -2938 Mar 03 j 23:46 | 0°♋       |            |
|                     | -2941 Sep 07 j 19:54 | 30°♍☾     |            | greatest brilliancy | -2938 Mar 04 j 05:13 | 0°♋16'45  | -3.9m      |
| direct              | -2941 Sep 14 j 13:11 | 29°☾04'55 |            |                     | -2938 Mar 28 j 10:56 | 0°♍       |            |
|                     | -2941 Sep 21 j 11:00 | 0°♌       |            | asc. node           | -2938 Apr 03 j 01:45 | 6°♍51'32  |            |
| greatest brilliancy | -2941 Sep 25 j 11:58 | 1°♌19'09  | -4.9m      |                     | -2938 Apr 22 j 02:06 | 0°♎       |            |
| asc. node           | -2941 Oct 17 j 06:31 | 15°♌30'31 |            |                     | -2938 May 16 j 22:03 | 0°♎       |            |
|                     | -2941 Nov 01 j 18:38 | 0°♍       |            |                     | -2938 Jun 11 j 00:36 | 0°☾       |            |
| morning max el      | -2941 Nov 04 j 08:07 | 2°♍36'08  | 46°53'33   |                     | -2938 Jul 06 j 13:51 | 0°♌       |            |
|                     | -2941 Nov 29 j 11:45 | 0°♊       |            | desc. node          | -2938 Jul 23 j 18:55 | 19°♌43'05 |            |
|                     | -2941 Dec 25 j 06:30 | 0°♍       |            |                     | -2938 Aug 01 j 23:32 | 0°♍       |            |
|                     | -2940 Jan 19 j 10:26 | 0°♎       |            | evening max el      | -2938 Aug 28 j 08:17 | 27°♍55'28 | 47°15'17   |
| desc. node          | -2940 Feb 06 j 00:58 | 21°♎09'37 |            |                     | -2938 Aug 30 j 10:43 | 0°♊       |            |
|                     | -2940 Feb 13 j 09:00 | 0°♎       |            | greatest brilliancy | -2938 Oct 08 j 08:10 | 28°♊57'37 | -4.9m      |
|                     | -2940 Mar 09 j 04:57 | 0°♎       |            |                     | -2938 Oct 11 j 21:05 | 0°♍       |            |
|                     | -2940 Apr 02 j 22:39 | 0°♋       |            | retrograde          | -2938 Oct 17 j 22:57 | 0°♍43'38  |            |
|                     | -2940 Apr 27 j 13:44 | 0°♍       |            |                     | -2938 Oct 23 j 20:41 | 30°♍♊     |            |
| morning set         | -2940 May 06 j 14:09 | 11°♍01'32 |            | evening set         | -2938 Nov 01 j 13:48 | 26°♊26'40 |            |
|                     | -2940 May 22 j 01:31 | 0°♎       |            | inferior conj       | -2938 Nov 07 j 11:44 | 22°♊57'41 | -1°36'41   |
| asc. node           | -2940 May 28 j 23:48 | 8°♎31'15  |            | minimum elong       | -2938 Nov 07 j 15:20 | 22°♊52'10 | 1°35'33    |
| max. Earth dist.    | -2940 Jun 07 j 17:32 | 20°♎31'36 | 1.73178 AU | min. Earth dist.    | -2938 Nov 07 j 04:31 | 23°♊08'42 | 0.26379 AU |
|                     |                      |           |            | morning rise        | -2938 Nov 13 j 17:11 | 19°♊19'53 |            |
| superior conj       | -2940 Jun 11 j 13:09 | 25°♎14'29 | 0°31'13    | asc. node           | -2938 Nov 13 j 18:06 | 19°♊18'40 |            |
| minimum elong       | -2940 Jun 11 j 07:20 | 24°♎56'32 | 0°31'02    | direct              | -2938 Nov 27 j 17:13 | 15°♊22'17 |            |
|                     | -2940 Jun 15 j 09:33 | 0°♎       |            | greatest brilliancy | -2938 Dec 07 j 13:42 | 17°♊13'56 | -4.9m      |
|                     | -2940 Jul 09 j 14:03 | 0°☾       |            |                     | -2938 Dec 28 j 08:02 | 0°♍       |            |
| evening rise        | -2940 Jul 17 j 10:34 | 9°☾46'22  |            | morning max el      | -2937 Jan 16 j 19:19 | 17°♍45'35 | 46°30'32   |
|                     | -2940 Aug 02 j 16:13 | 0°♌       |            |                     | -2937 Jan 28 j 17:55 | 0°♎       |            |
|                     | -2940 Aug 26 j 17:52 | 0°♍       |            |                     | -2937 Feb 25 j 02:53 | 0°♎       |            |
| desc. node          | -2940 Sep 17 j 17:07 | 27°♍19'25 |            | desc. node          | -2937 Mar 05 j 12:50 | 9°♎33'14  |            |
|                     | -2940 Sep 19 j 20:53 | 0°♊       |            |                     | -2937 Mar 23 j 06:33 | 0°♎       |            |
|                     | -2940 Oct 14 j 03:02 | 0°♍       |            |                     | -2937 Apr 17 j 19:43 | 0°♋       |            |
|                     | -2940 Nov 07 j 14:51 | 0°♎       |            |                     | -2937 May 12 j 23:02 | 0°♍       |            |
|                     | -2940 Dec 02 j 13:58 | 0°♎       |            |                     | -2937 Jun 06 j 17:59 | 0°♎       |            |
|                     | -2940 Dec 28 j 14:13 | 0°♎       |            | asc. node           | -2937 Jun 26 j 11:48 | 24°♎10'50 |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 94

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2937 Jul 01 j 05:05 | 0°♐       |            | retrograde          | -2935 Dec 29 j 09:44 | 15°♊21'23 |            |
| morning set         | -2937 Jul 14 j 00:56 | 15°♐52'51 |            | evening set         | -2934 Jan 15 j 02:51 | 9°♊47'52  |            |
|                     | -2937 Jul 25 j 09:12 | 0°♊       |            | min. Earth dist.    | -2934 Jan 18 j 11:52 | 7°♊41'32  | 0.28125 AU |
| max. Earth dist.    | -2937 Aug 17 j 07:06 | 28°♊41'16 | 1.71509 AU | inferior conj       | -2934 Jan 19 j 11:07 | 7°♊04'25  | 7°41'02    |
|                     | -2937 Aug 18 j 08:11 | 0°♑       |            | minimum elong       | -2934 Jan 19 j 03:51 | 7°♊16'02  | 7°40'02    |
|                     |                      |           |            | morning rise        | -2934 Jan 23 j 05:19 | 4°♊43'18  |            |
| superior conj       | -2937 Aug 20 j 09:06 | 2°♑33'38  | 1°24'09    |                     | -2934 Feb 02 j 10:00 | 30°♋♊     |            |
| minimum elong       | -2937 Aug 20 j 08:40 | 2°♑32'16  | 1°24'13    | direct              | -2934 Feb 09 j 09:58 | 29°♋00'33 |            |
|                     | -2937 Sep 11 j 04:37 | 0°♌       |            |                     | -2934 Feb 16 j 16:01 | 0°♋       |            |
| evening rise        | -2937 Sep 28 j 22:30 | 22°♌19'30 |            | greatest brilliancy | -2934 Feb 18 j 04:03 | 0°♋26'07  | -4.8m      |
|                     | -2937 Oct 05 j 01:02 | 0°♍       |            | morning max el      | -2934 Mar 30 j 06:48 | 29°♋07'46 | 45°54'12   |
| desc. node          | -2937 Oct 16 j 05:14 | 14°♍01'45 |            |                     | -2934 Mar 31 j 04:35 | 0°♌       |            |
|                     | -2937 Oct 28 j 23:08 | 0°♍       |            | desc. node          | -2934 Apr 02 j 00:15 | 1°♌45'41  |            |
|                     | -2937 Nov 22 j 00:04 | 0°♎       |            |                     | -2934 Apr 29 j 04:37 | 0°♌       |            |
|                     | -2937 Dec 16 j 05:23 | 0°♏       |            |                     | -2934 May 25 j 22:34 | 0°♍       |            |
|                     | -2936 Jan 09 j 18:25 | 0°♎       |            |                     | -2934 Jun 20 j 14:34 | 0°♎       |            |
|                     | -2936 Feb 03 j 21:32 | 0°♏       |            |                     | -2934 Jul 15 j 13:18 | 0°♐       |            |
| asc. node           | -2936 Feb 06 j 03:37 | 2°♏38'24  |            | asc. node           | -2934 Jul 23 j 23:49 | 10°♐18'25 |            |
|                     | -2936 Mar 01 j 02:47 | 0°♑       |            |                     | -2934 Aug 08 j 23:05 | 0°♑       |            |
|                     | -2936 Mar 29 j 16:53 | 0°♒       |            |                     | -2934 Sep 01 j 23:46 | 0°♑       |            |
| evening max el      | -2936 Apr 01 j 12:19 | 2°♒42'25  | 45°10'02   | greatest brilliancy | -2934 Sep 14 j 08:31 | 15°♑33'00 | -3.9m      |
| greatest brilliancy | -2936 May 09 j 02:06 | 29°♒50'55 | -4.7m      | morning set         | -2934 Sep 23 j 23:46 | 27°♑42'05 |            |
|                     | -2936 May 09 j 12:22 | 0°♒       |            |                     | -2934 Sep 25 j 19:29 | 0°♒       |            |
| retrograde          | -2936 May 19 j 17:23 | 1°♒50'57  |            |                     | -2934 Oct 19 j 13:52 | 0°♓       |            |
| desc. node          | -2936 May 27 j 21:26 | 0°♒33'04  |            |                     |                      |           |            |
|                     | -2936 May 29 j 11:32 | 30°♓♒     |            | superior conj       | -2934 Nov 03 j 21:51 | 19°♓19'41 | 0°20'31    |
| evening set         | -2936 Jun 03 j 15:50 | 27°♓36'54 |            | minimum elong       | -2934 Nov 04 j 03:18 | 19°♓36'50 | 0°20'14    |
| inferior conj       | -2936 Jun 10 j 01:29 | 23°♓50'51 | -3°01'26   | max. Earth dist.    | -2934 Nov 07 j 08:20 | 23°♓39'10 | 1.71014 AU |
| minimum elong       | -2936 Jun 09 j 19:05 | 24°♓00'43 | 2°59'36    |                     | -2934 Nov 12 j 09:28 | 0°♌       |            |
| min. Earth dist.    | -2936 Jun 10 j 10:37 | 23°♓36'47 | 0.28557 AU | desc. node          | -2934 Nov 12 j 17:19 | 0°♌24'42  |            |
| morning rise        | -2936 Jun 15 j 21:51 | 20°♓21'45 |            |                     | -2934 Dec 06 j 07:30 | 0°♎       |            |
| direct              | -2936 Jul 01 j 17:15 | 15°♓38'29 |            | evening rise        | -2934 Dec 16 j 06:11 | 12°♎25'32 |            |
| greatest brilliancy | -2936 Jul 12 j 16:12 | 17°♓48'33 | -4.8m      |                     | -2934 Dec 30 j 08:40 | 0°♏       |            |
|                     | -2936 Aug 01 j 15:12 | 0°♐       |            |                     | -2933 Jan 23 j 13:54 | 0°♎       |            |
| morning max el      | -2936 Aug 20 j 13:07 | 17°♐04'51 | 46°27'08   |                     | -2933 Feb 17 j 01:02 | 0°♏       |            |
|                     | -2936 Sep 02 j 01:15 | 0°♑       |            | asc. node           | -2933 Mar 05 j 15:42 | 20°♏08'03 |            |
| asc. node           | -2936 Sep 17 j 21:09 | 17°♑31'29 |            |                     | -2933 Mar 13 j 20:52 | 0°♑       |            |
|                     | -2936 Sep 28 j 16:19 | 0°♒       |            |                     | -2933 Apr 08 j 05:23 | 0°♒       |            |
|                     | -2936 Oct 23 j 17:56 | 0°♒       |            |                     | -2933 May 04 j 09:47 | 0°♐       |            |
|                     | -2936 Nov 17 j 04:28 | 0°♓       |            |                     | -2933 Jun 01 j 04:36 | 0°♑       |            |
|                     | -2936 Dec 11 j 10:17 | 0°♌       |            | evening max el      | -2933 Jun 13 j 03:09 | 11°♑53'07 | 45°48'46   |
|                     | -2935 Jan 04 j 16:10 | 0°♎       |            | desc. node          | -2933 Jun 25 j 09:16 | 23°♑02'28 |            |
| desc. node          | -2935 Jan 07 j 15:14 | 3°♎39'35  |            |                     | -2933 Jul 04 j 01:46 | 0°♑       |            |
|                     | -2935 Jan 28 j 23:35 | 0°♏       |            | greatest brilliancy | -2933 Jul 23 j 03:56 | 10°♑39'39 | -4.8m      |
|                     | -2935 Feb 22 j 08:30 | 0°♎       |            | retrograde          | -2933 Aug 01 j 08:51 | 12°♑12'45 |            |
| morning set         | -2935 Feb 25 j 05:13 | 3°♎31'12  |            | evening set         | -2933 Aug 19 j 08:51 | 6°♑14'34  |            |
|                     | -2935 Mar 18 j 18:27 | 0°♏       |            | inferior conj       | -2933 Aug 22 j 07:00 | 4°♑29'32  | -8°55'09   |
|                     |                      |           |            | minimum elong       | -2933 Aug 22 j 07:16 | 4°♑29'08  | 8°55'05    |
| superior conj       | -2935 Apr 03 j 10:39 | 19°♏14'34 | -0°57'48   | min. Earth dist.    | -2933 Aug 22 j 19:39 | 4°♑10'23  | 0.27313 AU |
| minimum elong       | -2935 Apr 03 j 19:27 | 19°♏41'34 | 0°57'31    | morning rise        | -2933 Aug 25 j 05:30 | 2°♑43'30  |            |
| max. Earth dist.    | -2935 Apr 03 j 13:35 | 19°♏23'34 | 1.73667 AU |                     | -2933 Aug 30 j 04:39 | 30°♋♑     |            |
|                     | -2935 Apr 12 j 04:59 | 0°♑       |            | direct              | -2933 Sep 12 j 02:46 | 26°♑39'58 |            |
| asc. node           | -2935 Apr 30 j 13:51 | 22°♑32'46 |            | greatest brilliancy | -2933 Sep 23 j 02:41 | 28°♑55'18 | -4.9m      |
|                     | -2935 May 06 j 15:36 | 0°♒       |            |                     | -2933 Sep 25 j 15:02 | 0°♒       |            |
| evening rise        | -2935 May 09 j 15:49 | 3°♒41'42  |            | asc. node           | -2933 Oct 16 j 08:37 | 14°♒22'26 |            |
|                     | -2935 May 31 j 01:58 | 0°♐       |            |                     | -2933 Nov 01 j 18:07 | 0°♒       |            |
|                     | -2935 Jun 24 j 12:23 | 0°♑       |            | morning max el      | -2933 Nov 01 j 22:03 | 0°♒10'03  | 46°53'30   |
|                     | -2935 Jul 19 j 00:03 | 0°♑       |            |                     | -2933 Nov 29 j 04:40 | 0°♓       |            |
|                     | -2935 Aug 12 j 15:06 | 0°♒       |            |                     | -2933 Dec 24 j 20:57 | 0°♌       |            |
| desc. node          | -2935 Aug 20 j 07:03 | 9°♒16'48  |            |                     | -2932 Jan 18 j 23:33 | 0°♎       |            |
|                     | -2935 Sep 06 j 12:42 | 0°♓       |            | desc. node          | -2932 Feb 05 j 03:11 | 20°♎38'31 |            |
|                     | -2935 Oct 01 j 22:44 | 0°♌       |            |                     | -2932 Feb 12 j 21:18 | 0°♏       |            |
|                     | -2935 Oct 28 j 13:15 | 0°♎       |            |                     | -2932 Mar 08 j 16:42 | 0°♎       |            |
| evening max el      | -2935 Nov 08 j 09:17 | 11°♎26'00 | 47°20'30   |                     | -2932 Apr 02 j 10:02 | 0°♏       |            |
|                     | -2935 Nov 28 j 03:35 | 0°♏       |            |                     | -2932 Apr 27 j 00:51 | 0°♑       |            |
| asc. node           | -2935 Dec 11 j 05:53 | 9°♏28'07  |            | morning set         | -2932 May 04 j 09:03 | 8°♑58'36  |            |
| greatest brilliancy | -2935 Dec 18 j 15:22 | 13°♏08'50 | -4.9m      |                     | -2932 May 21 j 12:31 | 0°♒       |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 95

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |                     |            |                     |                      |                     |            |
|---------------------|----------------------|---------------------|------------|---------------------|----------------------|---------------------|------------|
| asc. node           | -2932 May 28 j 01:59 | 8° $\text{804}'08$  |            | morning rise        | -2930 Nov 11 j 05:31 | 16° $\text{50}'57$  |            |
| max. Earth dist.    | -2932 Jun 05 j 16:07 | 18° $\text{839}'16$ | 1.73220 AU | asc. node           | -2930 Nov 12 j 20:15 | 16° $\text{50}'57$  |            |
|                     |                      |                     |            | direct              | -2930 Nov 25 j 06:19 | 12° $\text{53}'32$  |            |
| superior conj       | -2932 Jun 09 j 07:59 | 23° $\text{810}'28$ | 0°28'20    | greatest brilliancy | -2930 Dec 05 j 02:59 | 14° $\text{54}'43$  | -4.9m      |
| minimum elong       | -2932 Jun 09 j 02:39 | 22° $\text{853}'59$ | 0°28'10    |                     | -2930 Dec 28 j 19:53 | 0° $\text{00}'00$   |            |
|                     | -2932 Jun 14 j 20:32 | 0° $\text{00}'00$   |            | morning max el      | -2929 Jan 14 j 09:18 | 15° $\text{00}'22$  | 46°31'39   |
|                     | -2932 Jul 09 j 01:08 | 0° $\text{00}'00$   |            |                     | -2929 Jan 28 j 13:21 | 0° $\text{00}'00$   |            |
| evening rise        | -2932 Jul 15 j 04:25 | 7° $\text{537}'59$  |            |                     | -2929 Feb 24 j 18:08 | 0° $\text{00}'00$   |            |
|                     | -2932 Aug 02 j 03:30 | 0° $\text{00}'00$   |            | desc. node          | -2929 Mar 04 j 14:50 | 8° $\text{57}'23$   |            |
|                     | -2932 Aug 26 j 05:26 | 0° $\text{00}'00$   |            |                     | -2929 Mar 22 j 19:54 | 0° $\text{00}'00$   |            |
| desc. node          | -2932 Sep 16 j 19:08 | 26° $\text{048}'52$ |            |                     | -2929 Apr 17 j 08:00 | 0° $\text{00}'00$   |            |
|                     | -2932 Sep 19 j 08:48 | 0° $\text{00}'00$   |            |                     | -2929 May 12 j 10:41 | 0° $\text{00}'00$   |            |
|                     | -2932 Oct 13 j 15:25 | 0° $\text{00}'00$   |            |                     | -2929 Jun 06 j 05:17 | 0° $\text{00}'00$   |            |
|                     | -2932 Nov 07 j 03:54 | 0° $\text{00}'00$   |            | asc. node           | -2929 Jun 25 j 14:00 | 23° $\text{043}'17$ |            |
|                     | -2932 Dec 02 j 04:11 | 0° $\text{00}'00$   |            |                     | -2929 Jun 30 j 16:13 | 0° $\text{00}'00$   |            |
|                     | -2932 Dec 28 j 06:55 | 0° $\text{00}'00$   |            | morning set         | -2929 Jul 11 j 17:46 | 13° $\text{041}'48$ |            |
| asc. node           | -2931 Jan 07 j 17:47 | 11° $\text{020}'49$ |            |                     | -2929 Jul 24 j 20:17 | 0° $\text{00}'00$   |            |
| evening max el      | -2931 Jan 18 j 06:11 | 22° $\text{009}'30$ | 46°01'16   | max. Earth dist.    | -2929 Aug 14 j 15:16 | 26° $\text{501}'26$ | 1.71560 AU |
|                     | -2931 Jan 26 j 10:23 | 0° $\text{00}'00$   |            |                     | -2929 Aug 17 j 19:17 | 0° $\text{00}'00$   |            |
| greatest brilliancy | -2931 Feb 25 j 21:03 | 21° $\text{019}'17$ | -4.7m      | superior conj       | -2929 Aug 18 j 00:04 | 0° $\text{015}'01$  | 1°23'59    |
| retrograde          | -2931 Mar 08 j 16:23 | 23° $\text{028}'04$ |            | minimum elong       | -2929 Aug 17 j 22:50 | 0° $\text{011}'08$  | 1°24'04    |
| evening set         | -2931 Mar 25 j 10:25 | 18° $\text{002}'47$ |            |                     | -2929 Sep 10 j 15:49 | 0° $\text{00}'00$   |            |
| inferior conj       | -2931 Mar 30 j 03:06 | 15° $\text{008}'41$ | 6°10'30    | evening rise        | -2929 Sep 26 j 09:13 | 19° $\text{046}'51$ |            |
| minimum elong       | -2931 Mar 30 j 12:08 | 14° $\text{054}'23$ | 6°08'47    |                     | -2929 Oct 04 j 12:21 | 0° $\text{00}'00$   |            |
| min. Earth dist.    | -2931 Mar 30 j 12:48 | 14° $\text{053}'19$ | 0.29259 AU | desc. node          | -2929 Oct 15 j 07:20 | 13° $\text{032}'44$ |            |
| morning rise        | -2931 Apr 04 j 13:49 | 11° $\text{047}'53$ |            |                     | -2929 Oct 28 j 10:34 | 0° $\text{00}'00$   |            |
| direct              | -2931 Apr 20 j 19:36 | 6° $\text{043}'28$  |            |                     | -2929 Nov 21 j 11:40 | 0° $\text{00}'00$   |            |
| desc. node          | -2931 Apr 29 j 11:49 | 8° $\text{005}'49$  |            |                     | -2929 Dec 15 j 17:15 | 0° $\text{00}'00$   |            |
| greatest brilliancy | -2931 May 01 j 03:16 | 8° $\text{038}'17$  | -4.7m      |                     | -2928 Jan 09 j 06:48 | 0° $\text{00}'00$   |            |
|                     | -2931 Jun 01 j 15:28 | 0° $\text{00}'00$   |            |                     | -2928 Feb 03 j 10:55 | 0° $\text{00}'00$   |            |
| morning max el      | -2931 Jun 08 j 18:31 | 6° $\text{036}'49$  | 45°52'09   | asc. node           | -2928 Feb 05 j 05:38 | 2° $\text{004}'54$  |            |
|                     | -2931 Jul 01 j 14:33 | 0° $\text{00}'00$   |            |                     | -2928 Feb 29 j 18:24 | 0° $\text{00}'00$   |            |
|                     | -2931 Jul 28 j 07:39 | 0° $\text{00}'00$   |            |                     | -2928 Mar 29 j 14:58 | 0° $\text{00}'00$   |            |
| asc. node           | -2931 Aug 20 j 11:35 | 27° $\text{026}'01$ |            | evening max el      | -2928 Mar 30 j 03:37 | 0° $\text{030}'13$  | 45°10'13   |
|                     | -2931 Aug 22 j 14:34 | 0° $\text{00}'00$   |            | greatest brilliancy | -2928 May 06 j 17:43 | 27° $\text{040}'12$ | -4.7m      |
|                     | -2931 Sep 16 j 02:07 | 0° $\text{00}'00$   |            | retrograde          | -2928 May 17 j 08:10 | 29° $\text{039}'50$ |            |
|                     | -2931 Oct 10 j 03:06 | 0° $\text{00}'00$   |            | desc. node          | -2928 May 26 j 23:37 | 27° $\text{051}'46$ |            |
|                     | -2931 Nov 02 j 23:59 | 0° $\text{00}'00$   |            | evening set         | -2928 Jun 01 j 06:41 | 25° $\text{026}'33$ |            |
|                     | -2931 Nov 26 j 21:03 | 0° $\text{00}'00$   |            | inferior conj       | -2928 Jun 07 j 17:07 | 21° $\text{039}'19$ | -2°42'14   |
| morning set         | -2931 Dec 09 j 22:22 | 16° $\text{021}'15$ |            | minimum elong       | -2928 Jun 07 j 11:20 | 21° $\text{048}'15$ | 2°40'32    |
| desc. node          | -2931 Dec 10 j 05:24 | 16° $\text{043}'14$ |            | min. Earth dist.    | -2928 Jun 08 j 02:51 | 21° $\text{024}'16$ | 0.28591 AU |
|                     | -2931 Dec 20 j 20:21 | 0° $\text{00}'00$   |            | morning rise        | -2928 Jun 13 j 15:24 | 18° $\text{007}'03$ |            |
|                     | -2930 Jan 13 j 22:24 | 0° $\text{00}'00$   |            | direct              | -2928 Jun 29 j 08:59 | 13° $\text{026}'19$ |            |
| superior conj       | -2930 Jan 20 j 09:43 | 8° $\text{002}'18$  | -1°16'39   | greatest brilliancy | -2928 Jul 10 j 08:20 | 15° $\text{036}'10$ | -4.8m      |
| minimum elong       | -2930 Jan 20 j 01:29 | 7° $\text{036}'46$  | 1°16'34    |                     | -2928 Aug 02 j 00:51 | 0° $\text{00}'00$   |            |
| max. Earth dist.    | -2930 Jan 24 j 02:41 | 12° $\text{038}'17$ | 1.72454 AU | morning max el      | -2928 Aug 18 j 02:47 | 14° $\text{044}'27$ | 46°25'44   |
|                     | -2930 Feb 07 j 03:11 | 0° $\text{00}'00$   |            |                     | -2928 Sep 01 j 19:39 | 0° $\text{00}'00$   |            |
| evening rise        | -2930 Feb 28 j 08:58 | 26° $\text{012}'32$ |            | asc. node           | -2928 Sep 16 j 23:14 | 16° $\text{551}'58$ |            |
| greatest brilliancy | -2930 Mar 02 j 14:26 | 28° $\text{056}'59$ | -3.9m      |                     | -2928 Sep 28 j 07:06 | 0° $\text{00}'00$   |            |
|                     | -2930 Mar 03 j 10:56 | 0° $\text{00}'00$   |            |                     | -2928 Oct 23 j 07:12 | 0° $\text{00}'00$   |            |
|                     | -2930 Mar 27 j 22:13 | 0° $\text{00}'00$   |            |                     | -2928 Nov 16 j 16:54 | 0° $\text{00}'00$   |            |
| asc. node           | -2930 Apr 02 j 03:48 | 6° $\text{023}'18$  |            |                     | -2928 Dec 10 j 22:12 | 0° $\text{00}'00$   |            |
|                     | -2930 Apr 21 j 13:39 | 0° $\text{00}'00$   |            |                     | -2927 Jan 04 j 03:42 | 0° $\text{00}'00$   |            |
|                     | -2930 May 16 j 10:09 | 0° $\text{00}'00$   |            | desc. node          | -2927 Jan 06 j 17:24 | 3° $\text{010}'43$  |            |
|                     | -2930 Jun 10 j 13:33 | 0° $\text{00}'00$   |            |                     | -2927 Jan 28 j 10:49 | 0° $\text{00}'00$   |            |
|                     | -2930 Jul 06 j 04:16 | 0° $\text{00}'00$   |            |                     | -2927 Feb 21 j 19:32 | 0° $\text{00}'00$   |            |
| desc. node          | -2930 Jul 22 j 21:05 | 19° $\text{004}'02$ |            | morning set         | -2927 Feb 22 j 20:40 | 1° $\text{017}'19$  |            |
|                     | -2930 Aug 01 j 16:49 | 0° $\text{00}'00$   |            |                     | -2927 Mar 18 j 05:22 | 0° $\text{00}'00$   |            |
| evening max el      | -2930 Aug 25 j 23:07 | 25° $\text{034}'04$ | 47°13'12   | superior conj       | -2927 Apr 01 j 04:33 | 17° $\text{008}'52$ | -1°00'03   |
|                     | -2930 Aug 30 j 11:55 | 0° $\text{00}'00$   |            | minimum elong       | -2927 Apr 01 j 13:25 | 17° $\text{036}'02$ | 0°59'46    |
| greatest brilliancy | -2930 Oct 05 j 21:23 | 26° $\text{028}'24$ | -4.9m      | max. Earth dist.    | -2927 Apr 01 j 09:41 | 17° $\text{024}'35$ | 1.73651 AU |
| retrograde          | -2930 Oct 15 j 11:56 | 28° $\text{013}'34$ |            |                     | -2927 Apr 11 j 15:51 | 0° $\text{00}'00$   |            |
| evening set         | -2930 Oct 30 j 04:02 | 23° $\text{054}'57$ |            | asc. node           | -2927 Apr 29 j 16:02 | 22° $\text{006}'02$ |            |
| min. Earth dist.    | -2930 Nov 04 j 17:59 | 20° $\text{037}'46$ | 0.26366 AU |                     | -2927 May 06 j 02:30 | 0° $\text{00}'00$   |            |
| inferior conj       | -2930 Nov 05 j 00:07 | 20° $\text{028}'23$ | -2°00'34   | evening rise        | -2927 May 07 j 10:56 | 1° $\text{039}'31$  |            |
| minimum elong       | -2930 Nov 05 j 04:36 | 20° $\text{021}'33$ | 1°59'12    |                     |                      |                     |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2927 May 30 j 13:03 | 0°II      |            | morning max el      | -2925 Oct 30 j 12:30 | 27°Ω46'24 | 46°53'22   |
|                     | -2927 Jun 23 j 23:47 | 0°☾       |            |                     | -2925 Nov 01 j 16:19 | 0°♐       |            |
|                     | -2927 Jul 18 j 11:57 | 0°Ω       |            |                     | -2925 Nov 28 j 20:56 | 0°♌       |            |
|                     | -2927 Aug 12 j 03:42 | 0°♐       |            |                     | -2925 Dec 24 j 10:54 | 0°♍       |            |
| desc. node          | -2927 Aug 19 j 09:02 | 8°♐43'57  |            |                     | -2924 Jan 18 j 12:16 | 0°♊       |            |
|                     | -2927 Sep 06 j 02:20 | 0°♌       |            | desc. node          | -2924 Feb 04 j 05:07 | 20°♊07'42 |            |
|                     | -2927 Oct 01 j 14:08 | 0°♍       |            |                     | -2924 Feb 12 j 09:14 | 0°♊       |            |
|                     | -2927 Oct 28 j 08:32 | 0°♊       |            |                     | -2924 Mar 08 j 04:04 | 0°♋       |            |
| evening max el      | -2927 Nov 05 j 23:31 | 9°♊03'04  | 47°22'18   |                     | -2924 Apr 01 j 21:01 | 0°♋       |            |
|                     | -2927 Nov 28 j 15:42 | 0°♊       |            |                     | -2924 Apr 26 j 11:37 | 0°♌       |            |
| asc. node           | -2927 Dec 10 j 08:07 | 7°♊59'23  |            | morning set         | -2924 May 02 j 04:05 | 6°♌57'09  |            |
| greatest brilliancy | -2927 Dec 16 j 08:14 | 10°♊51'59 | -4.9m      |                     | -2924 May 20 j 23:11 | 0°♍       |            |
| retrograde          | -2927 Dec 27 j 01:07 | 13°♊03'43 |            | asc. node           | -2924 May 27 j 04:09 | 7°♍37'57  |            |
| evening set         | -2926 Jan 12 j 15:25 | 7°♊35'16  |            | max. Earth dist.    | -2924 Jun 03 j 14:44 | 16°♍48'00 | 1.73266 AU |
| min. Earth dist.    | -2926 Jan 16 j 02:59 | 5°♊25'23  | 0.28050 AU |                     |                      |           |            |
| inferior conj       | -2926 Jan 17 j 02:36 | 4°♊47'44  | 7°32'31    | superior conj       | -2924 Jun 07 j 02:47 | 21°♍07'17 | 0°25'25    |
| minimum elong       | -2926 Jan 16 j 18:51 | 5°♊00'07  | 7°31'21    | minimum elong       | -2924 Jun 06 j 21:56 | 20°♍52'21 | 0°25'15    |
| morning rise        | -2926 Jan 20 j 22:43 | 2°♊23'46  |            |                     | -2924 Jun 14 j 07:14 | 0°♎       |            |
|                     | -2926 Jan 25 j 06:32 | 30°♋♊     |            |                     | -2924 Jul 08 j 11:59 | 0°☾       |            |
| direct              | -2926 Feb 06 j 24:00 | 26°♊45'00 |            | evening rise        | -2924 Jul 12 j 22:09 | 5°☾30'00  |            |
| greatest brilliancy | -2926 Feb 15 j 18:59 | 28°♊11'03 | -4.8m      |                     | -2924 Aug 01 j 14:33 | 0°Ω       |            |
|                     | -2926 Feb 20 j 12:17 | 0°♊       |            |                     | -2924 Aug 25 j 16:44 | 0°♐       |            |
| morning max el      | -2926 Mar 27 j 20:58 | 26°♊52'27 | 45°54'59   | desc. node          | -2924 Sep 15 j 21:15 | 26°♐19'24 |            |
|                     | -2926 Mar 31 j 02:32 | 0°♋       |            |                     | -2924 Sep 18 j 20:27 | 0°♌       |            |
| desc. node          | -2926 Apr 01 j 02:26 | 0°♋58'34  |            |                     | -2924 Oct 13 j 03:31 | 0°♍       |            |
|                     | -2926 Apr 28 j 20:14 | 0°♋       |            |                     | -2924 Nov 06 j 16:42 | 0°♎       |            |
|                     | -2926 May 25 j 11:53 | 0°♌       |            |                     | -2924 Dec 01 j 18:09 | 0°♊       |            |
|                     | -2926 Jun 20 j 02:46 | 0°♌       |            |                     | -2924 Dec 27 j 23:31 | 0°♋       |            |
|                     | -2926 Jul 15 j 00:53 | 0°♎       |            | asc. node           | -2923 Jan 06 j 19:50 | 10°♋37'18 |            |
| asc. node           | -2926 Jul 23 j 01:53 | 9°♎49'35  |            | evening max el      | -2923 Jan 15 j 22:36 | 19°♋58'06 | 46°04'14   |
|                     | -2926 Aug 08 j 10:21 | 0°☾       |            |                     | -2923 Jan 26 j 12:07 | 0°♋       |            |
|                     | -2926 Sep 01 j 10:55 | 0°Ω       |            | greatest brilliancy | -2923 Feb 23 j 13:37 | 19°♋11'34 | -4.8m      |
| greatest brilliancy | -2926 Sep 13 j 19:25 | 15°Ω32'22 | -3.9m      | retrograde          | -2923 Mar 06 j 10:00 | 21°♋21'05 |            |
| morning set         | -2926 Sep 21 j 11:49 | 25°Ω13'37 |            | evening set         | -2923 Mar 23 j 05:55 | 15°♋51'53 |            |
|                     | -2926 Sep 25 j 06:35 | 0°♐       |            | inferior conj       | -2923 Mar 27 j 20:04 | 13°♋01'09 | 6°22'58    |
|                     | -2926 Oct 19 j 00:59 | 0°♌       |            | minimum elong       | -2923 Mar 28 j 05:01 | 12°♋46'59 | 6°21'20    |
|                     |                      |           |            | min. Earth dist.    | -2923 Mar 28 j 04:33 | 12°♋47'43 | 0.29257 AU |
| superior conj       | -2926 Nov 01 j 06:51 | 16°♌41'53 | 0°24'24    | morning rise        | -2923 Apr 02 j 04:12 | 9°♋44'10  |            |
| minimum elong       | -2926 Nov 01 j 13:15 | 17°♌02'02 | 0°24'05    | direct              | -2923 Apr 18 j 12:50 | 4°♋36'13  |            |
| max. Earth dist.    | -2926 Nov 04 j 10:05 | 20°♌38'45 | 1.70991 AU | greatest brilliancy | -2923 Apr 28 j 17:57 | 6°♋29'18  | -4.7m      |
| desc. node          | -2926 Nov 11 j 19:29 | 29°♌56'35 |            | desc. node          | -2923 Apr 28 j 13:57 | 6°♋25'49  |            |
|                     | -2926 Nov 11 j 20:35 | 0°♍       |            |                     | -2923 Jun 01 j 16:11 | 0°♌       |            |
|                     | -2926 Dec 05 j 18:37 | 0°♊       |            | morning max el      | -2923 Jun 06 j 11:33 | 4°♌30'20  | 45°51'24   |
| evening rise        | -2926 Dec 13 j 16:10 | 9°♊52'14  |            |                     | -2923 Jul 01 j 06:42 | 0°♍       |            |
|                     | -2926 Dec 29 j 19:47 | 0°♊       |            |                     | -2923 Jul 27 j 21:12 | 0°♎       |            |
|                     | -2925 Jan 23 j 01:05 | 0°♋       |            | asc. node           | -2923 Aug 19 j 13:39 | 26°♎54'38 |            |
|                     | -2925 Feb 16 j 12:25 | 0°♋       |            |                     | -2923 Aug 22 j 02:59 | 0°☾       |            |
| asc. node           | -2925 Mar 04 j 17:47 | 19°♋39'10 |            |                     | -2923 Sep 15 j 13:56 | 0°Ω       |            |
|                     | -2925 Mar 13 j 08:44 | 0°♌       |            |                     | -2923 Oct 09 j 14:36 | 0°♐       |            |
|                     | -2925 Apr 07 j 18:14 | 0°♌       |            |                     | -2923 Nov 02 j 11:17 | 0°♌       |            |
|                     | -2925 May 04 j 00:38 | 0°♎       |            |                     | -2923 Nov 26 j 08:12 | 0°♍       |            |
|                     | -2925 Jun 01 j 00:19 | 0°☾       |            | morning set         | -2923 Dec 07 j 08:06 | 13°♍46'51 |            |
| evening max el      | -2925 Jun 10 j 16:37 | 9°☾34'04  | 45°46'10   | desc. node          | -2923 Dec 09 j 07:28 | 16°♍15'06 |            |
| desc. node          | -2925 Jun 24 j 11:25 | 22°☾00'03 |            |                     | -2923 Dec 20 j 07:23 | 0°♊       |            |
|                     | -2925 Jul 04 j 21:32 | 0°Ω       |            |                     | -2922 Jan 13 j 09:19 | 0°♊       |            |
| greatest brilliancy | -2925 Jul 20 j 14:43 | 8°Ω15'23  | -4.8m      |                     |                      |           |            |
| retrograde          | -2925 Jul 29 j 21:55 | 9°Ω50'12  |            | superior conj       | -2922 Jan 17 j 21:59 | 5°♊37'34  | -1°15'04   |
| evening set         | -2925 Aug 16 j 20:23 | 3°Ω53'16  |            | minimum elong       | -2922 Jan 17 j 13:06 | 5°♊09'59  | 1°14'57    |
| inferior conj       | -2925 Aug 19 j 19:58 | 2°Ω06'14  | -8°54'22   | max. Earth dist.    | -2922 Jan 21 j 18:55 | 10°♊26'01 | 1.72398 AU |
| minimum elong       | -2925 Aug 19 j 19:17 | 2°Ω07'16  | 8°54'17    |                     | -2922 Feb 06 j 14:00 | 0°♋       |            |
| min. Earth dist.    | -2925 Aug 20 j 08:03 | 1°Ω47'57  | 0.27366 AU | evening rise        | -2922 Feb 26 j 00:28 | 23°♋59'13 |            |
| morning rise        | -2925 Aug 22 j 18:02 | 0°Ω21'02  |            | greatest brilliancy | -2922 Mar 01 j 06:32 | 27°♋59'25 | -3.9m      |
|                     | -2925 Aug 23 j 08:21 | 30°♋☾     |            |                     | -2922 Mar 02 j 21:45 | 0°♋       |            |
| direct              | -2925 Sep 09 j 16:46 | 24°☾15'43 |            |                     | -2922 Mar 27 j 09:08 | 0°♌       |            |
| greatest brilliancy | -2925 Sep 20 j 16:38 | 26°☾31'23 | -4.9m      | asc. node           | -2922 Apr 01 j 06:02 | 5°♌56'41  |            |
|                     | -2925 Sep 27 j 18:35 | 0°Ω       |            |                     | -2922 Apr 21 j 00:51 | 0°♌       |            |
| asc. node           | -2925 Oct 15 j 10:51 | 13°Ω17'13 |            |                     | -2922 May 15 j 21:52 | 0°♎       |            |



Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.





























































































































|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2922 Jun 10 j 02:10 | 0°☿       |            |                     | -2919 Jan 27 j 22:01 | 0°♄       |            |
|                     | -2922 Jul 05 j 18:29 | 0°♁       |            | morning set         | -2919 Feb 20 j 11:39 | 29°♄02'01 |            |
| desc. node          | -2922 Jul 21 j 23:03 | 18°♁24'49 |            |                     | -2919 Feb 21 j 06:29 | 0°♁       |            |
|                     | -2922 Aug 01 j 10:12 | 0°♁       |            |                     | -2919 Mar 17 j 16:10 | 0°♁       |            |
| evening max el      | -2922 Aug 23 j 13:19 | 23°♁11'36 | 47°10'41   |                     |                      |           |            |
|                     | -2922 Aug 30 j 14:17 | 0°♁       |            | superior conj       | -2919 Mar 29 j 22:19 | 15°♁03'04 | -1°02'13   |
| greatest brilliancy | -2922 Oct 03 j 10:49 | 23°♁59'19 | -4.9m      | minimum elong       | -2919 Mar 30 j 07:10 | 15°♁30'14 | 1°01'57    |
| retrograde          | -2922 Oct 13 j 00:06 | 25°♁42'50 |            | max. Earth dist.    | -2919 Mar 30 j 04:59 | 15°♁23'31 | 1.73632 AU |
| evening set         | -2922 Oct 27 j 18:10 | 21°♁22'35 |            |                     | -2919 Apr 11 j 02:36 | 0°♁       |            |
| inferior conj       | -2922 Nov 02 j 12:13 | 17°♁58'41 | -2°24'34   | asc. node           | -2919 Apr 28 j 18:09 | 21°♁39'31 |            |
| minimum elong       | -2922 Nov 02 j 17:32 | 17°♁50'33 | 2°22'56    | evening rise        | -2919 May 05 j 06:09 | 29°♁38'01 |            |
| min. Earth dist.    | -2922 Nov 02 j 07:27 | 18°♁05'58 | 0.26352 AU |                     | -2919 May 05 j 13:19 | 0°♁       |            |
| morning rise        | -2922 Nov 08 j 17:13 | 14°♁21'44 |            |                     | -2919 May 30 j 00:03 | 0°♁       |            |
| asc. node           | -2922 Nov 11 j 22:25 | 12°♁48'44 |            |                     | -2919 Jun 23 j 11:06 | 0°♁       |            |
| direct              | -2922 Nov 22 j 18:43 | 10°♁24'25 |            |                     | -2919 Jul 17 j 23:45 | 0°♁       |            |
| greatest brilliancy | -2922 Dec 02 j 16:20 | 12°♁17'19 | -4.9m      |                     | -2919 Aug 11 j 16:13 | 0°♁       |            |
|                     | -2922 Dec 29 j 04:32 | 0°♁       |            | desc. node          | -2919 Aug 18 j 11:14 | 8°♁12'08  |            |
| morning max el      | -2921 Jan 11 j 21:59 | 12°♁57'34 | 46°32'58   |                     | -2919 Sep 05 j 15:55 | 0°♁       |            |
|                     | -2921 Jan 28 j 07:58 | 0°♁       |            |                     | -2919 Oct 01 j 05:36 | 0°♁       |            |
|                     | -2921 Feb 24 j 08:50 | 0°♁       |            |                     | -2919 Oct 28 j 04:19 | 0°♁       |            |
| desc. node          | -2921 Mar 03 j 16:59 | 8°♁23'12  |            | evening max el      | -2919 Nov 03 j 13:37 | 6°♁39'44  | 47°23'47   |
|                     | -2921 Mar 22 j 08:48 | 0°♁       |            |                     | -2919 Nov 29 j 08:12 | 0°♁       |            |
|                     | -2921 Apr 16 j 19:54 | 0°♁       |            | asc. node           | -2919 Dec 09 j 10:09 | 6°♁26'25  |            |
|                     | -2921 May 11 j 22:00 | 0°♁       |            | greatest brilliancy | -2919 Dec 14 j 00:23 | 8°♁33'08  | -4.9m      |
|                     | -2921 Jun 05 j 16:15 | 0°♁       |            | retrograde          | -2919 Dec 24 j 16:29 | 10°♁44'45 |            |
| asc. node           | -2921 Jun 24 j 16:04 | 23°♁16'22 |            | evening set         | -2918 Jan 10 j 03:33 | 5°♁21'08  |            |
|                     | -2921 Jun 30 j 03:00 | 0°♁       |            | min. Earth dist.    | -2918 Jan 13 j 17:42 | 3°♁07'47  | 0.27978 AU |
| morning set         | -2921 Jul 09 j 11:00 | 11°♁33'01 |            | inferior conj       | -2918 Jan 14 j 17:46 | 2°♁29'33  | 7°22'57    |
|                     | -2921 Jul 24 j 07:01 | 0°♁       |            | minimum elong       | -2918 Jan 14 j 09:34 | 2°♁42'34  | 7°21'39    |
| max. Earth dist.    | -2921 Aug 12 j 01:53 | 23°♁30'18 | 1.71621 AU | morning rise        | -2918 Jan 18 j 16:03 | 0°♁02'33  |            |
|                     |                      |           |            |                     | -2918 Jan 18 j 17:45 | 30°♁♁     |            |
| superior conj       | -2921 Aug 15 j 15:22 | 27°♁58'27 | 1°23'41    | direct              | -2918 Feb 04 j 13:48 | 24°♁27'45 |            |
| minimum elong       | -2921 Aug 15 j 13:21 | 27°♁52'08 | 1°23'45    | greatest brilliancy | -2918 Feb 13 j 09:36 | 25°♁54'31 | -4.8m      |
|                     | -2921 Aug 17 j 06:06 | 0°♁       |            |                     | -2918 Feb 22 j 14:20 | 0°♁       |            |
|                     | -2921 Sep 10 j 02:47 | 0°♁       |            | morning max el      | -2918 Mar 25 j 11:41 | 24°♁37'53 | 45°56'00   |
| evening rise        | -2921 Sep 23 j 20:03 | 17°♁15'12 |            |                     | -2918 Mar 30 j 23:52 | 0°♁       |            |
|                     | -2921 Oct 03 j 23:29 | 0°♁       |            | desc. node          | -2918 Mar 31 j 04:36 | 0°♁11'45  |            |
| desc. node          | -2921 Oct 14 j 09:31 | 13°♁04'27 |            |                     | -2918 Apr 28 j 11:42 | 0°♁       |            |
|                     | -2921 Oct 27 j 21:53 | 0°♁       |            |                     | -2918 May 25 j 01:07 | 0°♁       |            |
|                     | -2921 Nov 20 j 23:09 | 0°♁       |            |                     | -2918 Jun 19 j 14:54 | 0°♁       |            |
|                     | -2921 Dec 15 j 05:00 | 0°♁       |            |                     | -2918 Jul 14 j 12:26 | 0°♁       |            |
|                     | -2920 Jan 08 j 19:02 | 0°♁       |            | asc. node           | -2918 Jul 22 j 03:56 | 9°♁20'46  |            |
|                     | -2920 Feb 03 j 00:11 | 0°♁       |            |                     | -2918 Aug 07 j 21:37 | 0°♁       |            |
| asc. node           | -2920 Feb 04 j 07:45 | 1°♁32'06  |            |                     | -2918 Aug 31 j 22:03 | 0°♁       |            |
|                     | -2920 Feb 29 j 09:58 | 0°♁       |            | greatest brilliancy | -2918 Sep 13 j 06:35 | 15°♁32'36 | -3.9m      |
| evening max el      | -2920 Mar 27 j 18:17 | 28°♁17'22 | 45°10'36   | morning set         | -2918 Sep 19 j 00:31 | 22°♁47'18 |            |
|                     | -2920 Mar 29 j 13:36 | 0°♁       |            |                     | -2918 Sep 24 j 17:41 | 0°♁       |            |
| greatest brilliancy | -2920 May 04 j 09:24 | 25°♁30'44 | -4.7m      |                     | -2918 Oct 18 j 12:05 | 0°♁       |            |
| retrograde          | -2920 May 14 j 23:22 | 27°♁30'27 |            |                     |                      |           |            |
| desc. node          | -2920 May 26 j 01:44 | 25°♁07'45 |            | superior conj       | -2918 Oct 29 j 16:19 | 14°♁05'31 | 0°28'12    |
| evening set         | -2920 May 29 j 21:55 | 23°♁17'19 |            | minimum elong       | -2918 Oct 29 j 23:35 | 14°♁28'27 | 0°27'50    |
| inferior conj       | -2920 Jun 05 j 08:58 | 19°♁29'22 | -2°22'53   | max. Earth dist.    | -2918 Nov 01 j 15:44 | 17°♁50'25 | 1.70974 AU |
| minimum elong       | -2920 Jun 05 j 03:50 | 19°♁37'19 | 2°21'22    | desc. node          | -2918 Nov 10 j 21:34 | 29°♁28'11 |            |
| min. Earth dist.    | -2920 Jun 05 j 19:25 | 19°♁13'14 | 0.28623 AU |                     | -2918 Nov 11 j 07:41 | 0°♁       |            |
| morning rise        | -2920 Jun 11 j 09:05 | 15°♁54'15 |            |                     | -2918 Dec 05 j 05:46 | 0°♁       |            |
| direct              | -2920 Jun 27 j 00:32 | 11°♁15'34 |            | evening rise        | -2918 Dec 11 j 02:17 | 7°♁19'04  |            |
| greatest brilliancy | -2920 Jul 08 j 01:02 | 13°♁25'53 | -4.8m      |                     | -2918 Dec 29 j 07:00 | 0°♁       |            |
|                     | -2920 Aug 02 j 07:24 | 0°♁       |            |                     | -2917 Jan 22 j 12:25 | 0°♁       |            |
| morning max el      | -2920 Aug 15 j 16:57 | 12°♁26'28 | 46°24'25   |                     | -2917 Feb 16 j 00:00 | 0°♁       |            |
|                     | -2920 Sep 01 j 13:18 | 0°♁       |            | asc. node           | -2917 Mar 03 j 19:59 | 19°♁10'04 |            |
| asc. node           | -2920 Sep 16 j 01:29 | 16°♁14'08 |            |                     | -2917 Mar 12 j 20:49 | 0°♁       |            |
|                     | -2920 Sep 27 j 21:28 | 0°♁       |            |                     | -2917 Apr 07 j 07:20 | 0°♁       |            |
|                     | -2920 Oct 22 j 20:12 | 0°♁       |            |                     | -2917 May 03 j 15:51 | 0°♁       |            |
|                     | -2920 Nov 16 j 05:12 | 0°♁       |            |                     | -2917 May 31 j 20:47 | 0°♁       |            |
|                     | -2920 Dec 10 j 10:03 | 0°♁       |            | evening max el      | -2917 Jun 08 j 07:01 | 7°♁17'15  | 45°43'43   |
|                     | -2919 Jan 03 j 15:11 | 0°♁       |            | desc. node          | -2917 Jun 23 j 13:25 | 20°♁55'31 |            |
| desc. node          | -2919 Jan 05 j 19:24 | 2°♁41'29  |            |                     | -2917 Jul 06 j 00:27 | 0°♁       |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 98

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |            |            |                     |                      |           |            |
|---------------------|----------------------|------------|------------|---------------------|----------------------|-----------|------------|
| greatest brilliancy | -2917 Jul 18 j 01:29 | 5°Ω51'25   | -4.8m      | superior conj       | -2914 Jan 15 j 10:20 | 3°Σ12'10  | -1°13'19   |
| retrograde          | -2917 Jul 27 j 11:13 | 7°Ω27'52   |            | minimum elong       | -2914 Jan 15 j 00:53 | 2°Σ42'49  | 1°13'12    |
| evening set         | -2917 Aug 14 j 07:41 | 1°Ω32'59   |            | max. Earth dist.    | -2914 Jan 19 j 12:40 | 8°Σ17'32  | 1.72339 AU |
|                     | -2917 Aug 16 j 21:58 | 30°RΣ      |            |                     | -2914 Feb 06 j 01:06 | 0°≈       |            |
| inferior conj       | -2917 Aug 17 j 09:05 | 29°Σ43'10  | -8°52'40   | evening rise        | -2914 Feb 23 j 15:56 | 21°≈44'52 |            |
| minimum elong       | -2917 Aug 17 j 07:30 | 29°Σ45'35  | 8°52'33    | greatest brilliancy | -2914 Feb 27 j 14:49 | 26°≈36'57 | -3.9m      |
| min. Earth dist.    | -2917 Aug 17 j 20:23 | 29°Σ26'04  | 0.27416 AU |                     | -2914 Mar 02 j 08:51 | 0°H       |            |
| morning rise        | -2917 Aug 20 j 07:11 | 27°Σ57'58  |            |                     | -2914 Mar 26 j 20:23 | 0°Y       |            |
| direct              | -2917 Sep 07 j 07:16 | 21°Σ51'57  |            | asc. node           | -2914 Mar 31 j 08:06 | 5°Y28'36  |            |
| greatest brilliancy | -2917 Sep 18 j 06:02 | 24°Σ06'55  | -4.9m      |                     | -2914 Apr 20 j 12:26 | 0°B       |            |
|                     | -2917 Sep 29 j 04:42 | 0°Ω        |            |                     | -2914 May 15 j 10:00 | 0°II      |            |
| asc. node           | -2917 Oct 14 j 12:55 | 12°Ω13'05  |            |                     | -2914 Jun 09 j 15:15 | 0°Σ       |            |
| morning max el      | -2917 Oct 28 j 03:12 | 25°Ω23'19  | 46°53'14   |                     | -2914 Jul 05 j 09:13 | 0°Ω       |            |
|                     | -2917 Nov 01 j 13:45 | 0°Π        |            | desc. node          | -2914 Jul 21 j 01:15 | 17°Ω44'58 |            |
|                     | -2917 Nov 28 j 13:00 | 0°Δ        |            |                     | -2914 Aug 01 j 04:19 | 0°Π       |            |
|                     | -2917 Dec 24 j 00:49 | 0°ΠL       |            | evening max el      | -2914 Aug 21 j 02:21 | 20°Π45'23 | 47°08'10   |
|                     | -2916 Jan 18 j 01:03 | 0°J        |            |                     | -2914 Aug 30 j 18:36 | 0°Δ       |            |
| desc. node          | -2916 Feb 03 j 07:18 | 19°J37'13  |            | greatest brilliancy | -2914 Oct 01 j 00:43 | 21°Δ29'58 | -4.9m      |
|                     | -2916 Feb 11 j 21:18 | 0°Σ        |            | retrograde          | -2914 Oct 10 j 11:47 | 23°Δ11'20 |            |
|                     | -2916 Mar 07 j 15:40 | 0°≈        |            | evening set         | -2914 Oct 25 j 08:27 | 18°Δ49'01 |            |
|                     | -2916 Apr 01 j 08:16 | 0°H        |            | inferior conj       | -2914 Oct 31 j 00:19 | 15°Δ28'11 | -2°48'16   |
|                     | -2916 Apr 25 j 22:37 | 0°Y        |            | minimum elong       | -2914 Oct 31 j 06:26 | 15°Δ18'49 | 2°46'23    |
| morning set         | -2916 Apr 29 j 22:53 | 4°Y54'15   |            | min. Earth dist.    | -2914 Oct 30 j 21:16 | 15°Δ32'52 | 0.26346 AU |
|                     | -2916 May 20 j 10:04 | 0°B        |            | morning rise        | -2914 Nov 06 j 04:39 | 11°Δ51'52 |            |
| asc. node           | -2916 May 26 j 06:10 | 7°B10'41   |            | asc. node           | -2914 Nov 11 j 00:31 | 9°Δ39'36  |            |
| max. Earth dist.    | -2916 Jun 01 j 12:35 | 14°B53'51  | 1.73304 AU | direct              | -2914 Nov 20 j 06:33 | 7°Δ54'07  |            |
|                     |                      |            |            | greatest brilliancy | -2914 Nov 30 j 06:15 | 9°Δ48'26  | -4.9m      |
| superior conj       | -2916 Jun 04 j 21:24 | 19°B03'01  | 0°22'27    |                     | -2914 Dec 29 j 11:12 | 0°ΠL      |            |
| minimum elong       | -2916 Jun 04 j 17:05 | 18°B49'42  | 0°22'19    | morning max el      | -2913 Jan 09 j 10:06 | 10°Π29'19 | 46°34'22   |
|                     | -2916 Jun 13 j 18:09 | 0°II       |            |                     | -2913 Jan 28 j 02:28 | 0°J       |            |
|                     | -2916 Jul 07 j 23:02 | 0°Σ        |            |                     | -2913 Feb 23 j 23:41 | 0°Σ       |            |
| evening rise        | -2916 Jul 10 j 15:55 | 3°Σ21'34   |            | desc. node          | -2913 Mar 02 j 19:10 | 7°Σ48'25  |            |
|                     | -2916 Aug 01 j 01:49 | 0°Ω        |            |                     | -2913 Mar 21 j 21:55 | 0°≈       |            |
|                     | -2916 Aug 25 j 04:18 | 0°Π        |            |                     | -2913 Apr 16 j 08:04 | 0°H       |            |
| desc. node          | -2916 Sep 14 j 23:25 | 25°Π49'18  |            |                     | -2913 May 11 j 09:37 | 0°Y       |            |
|                     | -2916 Sep 18 j 08:22 | 0°Δ        |            |                     | -2913 Jun 05 j 03:34 | 0°B       |            |
|                     | -2916 Oct 12 j 15:55 | 0°ΠL       |            | asc. node           | -2913 Jun 23 j 18:11 | 22°B48'30 |            |
|                     | -2916 Nov 06 j 05:46 | 0°J        |            |                     | -2913 Jun 29 j 14:09 | 0°II      |            |
|                     | -2916 Dec 01 j 08:26 | 0°Σ        |            | morning set         | -2913 Jul 07 j 04:04 | 9°II22'39 |            |
|                     | -2916 Dec 27 j 16:37 | 0°≈        |            |                     | -2913 Jul 23 j 18:08 | 0°Σ       |            |
| asc. node           | -2915 Jan 05 j 21:56 | 9°≈52'46   |            | max. Earth dist.    | -2913 Aug 09 j 14:26 | 21°Σ04'16 | 1.71679 AU |
| evening max el      | -2915 Jan 13 j 14:53 | 17°≈45'35  | 46°07'01   |                     |                      |           |            |
|                     | -2915 Jan 26 j 15:42 | 0°H        |            | superior conj       | -2913 Aug 13 j 06:36 | 25°Σ40'41 | 1°23'14    |
| greatest brilliancy | -2915 Feb 21 j 06:41 | 17°H03'26  | -4.8m      | minimum elong       | -2913 Aug 13 j 03:49 | 25°Σ31'57 | 1°23'18    |
| retrograde          | -2915 Mar 04 j 03:12 | 19°H12'48  |            |                     | -2913 Aug 16 j 17:16 | 0°Ω       |            |
| evening set         | -2915 Mar 21 j 01:22 | 13°H39'56  |            |                     | -2913 Sep 09 j 14:03 | 0°Π       |            |
| inferior conj       | -2915 Mar 25 j 13:00 | 10°H52'30  | 6°34'57    | evening rise        | -2913 Sep 21 j 07:02 | 14°Π43'13 |            |
| minimum elong       | -2915 Mar 25 j 21:49 | 10°H38'30  | 6°33'24    |                     | -2913 Oct 03 j 10:55 | 0°Δ       |            |
| min. Earth dist.    | -2915 Mar 25 j 20:25 | 10°H40'44  | 0.29254 AU | desc. node          | -2913 Oct 13 j 11:31 | 12°Δ34'42 |            |
| morning rise        | -2915 Mar 30 j 18:23 | 7°H39'16   |            |                     | -2913 Oct 27 j 09:30 | 0°ΠL      |            |
| direct              | -2915 Apr 16 j 06:01 | 2°H27'56   |            |                     | -2913 Nov 20 j 10:58 | 0°J       |            |
| greatest brilliancy | -2915 Apr 26 j 08:35 | 4°H18'58   | -4.7m      |                     | -2913 Dec 14 j 17:06 | 0°Σ       |            |
| desc. node          | -2915 Apr 27 j 16:02 | 4°H47'58   |            |                     | -2912 Jan 08 j 07:39 | 0°≈       |            |
|                     | -2915 Jun 01 j 16:15 | 0°Y        |            |                     | -2912 Feb 02 j 13:51 | 0°H       |            |
| morning max el      | -2915 Jun 04 j 03:48 | 2°Y20'54   | 45°50'42   | asc. node           | -2912 Feb 03 j 09:59 | 0°H58'37  |            |
|                     | -2915 Jun 30 j 22:57 | 0°B        |            |                     | -2912 Feb 29 j 02:06 | 0°Y       |            |
|                     | -2915 Jul 27 j 10:56 | 0°II       |            | evening max el      | -2912 Mar 25 j 08:43 | 26°Y03'13 | 45°11'08   |
| asc. node           | -2915 Aug 18 j 15:55 | 26°II23'11 |            |                     | -2912 Mar 29 j 13:35 | 0°B       |            |
|                     | -2915 Aug 21 j 15:34 | 0°Σ        |            | greatest brilliancy | -2912 May 02 j 00:26 | 23°B19'43 | -4.7m      |
|                     | -2915 Sep 15 j 01:57 | 0°Ω        |            | retrograde          | -2912 May 12 j 14:53 | 25°B20'18 |            |
|                     | -2915 Oct 09 j 02:18 | 0°Π        |            | desc. node          | -2912 May 25 j 03:46 | 22°B18'45 |            |
|                     | -2915 Nov 01 j 22:49 | 0°Δ        |            | evening set         | -2912 May 27 j 13:16 | 21°B06'49 |            |
|                     | -2915 Nov 25 j 19:37 | 0°ΠL       |            | inferior conj       | -2912 Jun 03 j 00:47 | 17°B18'25 | -2°03'17   |
| morning set         | -2915 Dec 04 j 18:00 | 11°ΠL12'03 |            | minimum elong       | -2912 Jun 02 j 20:19 | 17°B25'20 | 2°01'57    |
| desc. node          | -2915 Dec 08 j 09:30 | 15°ΠL45'58 |            | min. Earth dist.    | -2912 Jun 03 j 11:47 | 17°B01'26 | 0.28661 AU |
|                     | -2915 Dec 19 j 18:40 | 0°J        |            | morning rise        | -2912 Jun 09 j 02:39 | 13°B40'48 |            |
|                     | -2914 Jan 12 j 20:29 | 0°Σ        |            | direct              | -2912 Jun 24 j 16:09 | 9°B03'39  |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |   |            |                     |  |                      |   |       |            |
|---------------------|----------------------|---|------------|---------------------|--|----------------------|---|-------|------------|
| greatest brilliancy | -2912 Jul 05 j 17:51 | 11°  14'49   | -4.8m      |                     |  | -2910 Dec 28 j 18:20 | 0°     |       |            |
|                     | -2912 Aug 02 j 12:26 | 0°   |            |                     |  | -2909 Jan 21 j 23:51 | 0°     |       |            |
| morning max el      | -2912 Aug 13 j 08:09 | 10°  10'01   | 46°23'05   |                     |  | -2909 Feb 15 j 11:41 | 0°     |       |            |
|                     | -2912 Sep 01 j 06:58 | 0°   |            | asc. node           |  | -2909 Mar 02 j 22:01 | 18°    | 40'11 |            |
| asc. node           | -2912 Sep 15 j 03:32 | 15°  34'59   |            |                     |  | -2909 Mar 12 j 09:01 | 0°     |       |            |
|                     | -2912 Sep 27 j 12:03 | 0°   |            |                     |  | -2909 Apr 06 j 20:36 | 0°     |       |            |
|                     | -2912 Oct 22 j 09:25 | 0°   |            |                     |  | -2909 May 03 j 07:20 | 0°     |       |            |
|                     | -2912 Nov 15 j 17:42 | 0°   |            |                     |  | -2909 May 31 j 17:57 | 0°     |       |            |
|                     | -2912 Dec 09 j 22:04 | 0°   |            | evening max el      |  | -2909 Jun 05 j 21:55 | 5°     | 01'47 | 45°41'19   |
|                     | -2911 Jan 03 j 02:52 | 0°   |            | desc. node          |  | -2909 Jun 22 j 15:37 | 19°    | 49'52 |            |
| desc. node          | -2911 Jan 04 j 21:34 | 2°  12'05  |            |                     |  | -2909 Jul 07 j 14:20 | 0°     |       |            |
|                     | -2911 Jan 27 j 09:26 | 0°   |            | greatest brilliancy |  | -2909 Jul 15 j 12:32 | 3°     | 28'18 | -4.8m      |
| morning set         | -2911 Feb 18 j 02:23 | 26°  45'07   |            | retrograde          |  | -2909 Jul 25 j 00:20 | 5°     | 05'49 |            |
|                     | -2911 Feb 20 j 17:42 | 0°   |            |                     |  | -2909 Aug 10 j 10:39 | 30°    |       |            |
|                     | -2911 Mar 17 j 03:14 | 0°   |            | evening set         |  | -2909 Aug 11 j 18:36 | 29°    | 14'01 |            |
|                     |                      |   |            | inferior conj       |  | -2909 Aug 14 j 22:16 | 27°    | 20'37 | -8°49'56   |
| superior conj       | -2911 Mar 27 j 16:00 | 12°  56'17   | -1°04'18   | minimum elong       |  | -2909 Aug 14 j 19:47 | 27°    | 24'23 | 8°49'47    |
| minimum elong       | -2911 Mar 28 j 00:49 | 13°  23'21   | 1°04'03    | min. Earth dist.    |  | -2909 Aug 15 j 08:50 | 27°    | 04'35 | 0.27467 AU |
| max. Earth dist.    | -2911 Mar 28 j 00:19 | 13°  21'47   | 1.73610 AU | morning rise        |  | -2909 Aug 17 j 20:51 | 25°    | 34'33 |            |
|                     | -2911 Apr 10 j 13:35 | 0°   |            | direct              |  | -2909 Sep 04 j 21:47 | 19°    | 28'49 |            |
| asc. node           | -2911 Apr 27 j 20:11 | 21°  12'03   |            | greatest brilliancy |  | -2909 Sep 15 j 19:15 | 21°    | 42'27 | -4.9m      |
| evening rise        | -2911 May 03 j 01:23 | 27°  35'59   |            |                     |  | -2909 Sep 30 j 05:02 | 0°     |       |            |
|                     | -2911 May 05 j 00:21 | 0°   |            | asc. node           |  | -2909 Oct 13 j 15:01 | 11°    | 10'29 |            |
|                     | -2911 May 29 j 11:15 | 0°   |            | morning max el      |  | -2909 Oct 25 j 17:21 | 22°    | 58'41 | 46°52'48   |
|                     | -2911 Jun 22 j 22:40 | 0°   |            |                     |  | -2909 Nov 01 j 10:32 | 0°     |       |            |
|                     | -2911 Jul 17 j 11:52 | 0°   |            |                     |  | -2909 Nov 28 j 04:55 | 0°     |       |            |
|                     | -2911 Aug 11 j 05:05 | 0°    |            |                     |  | -2909 Dec 23 j 14:42 | 0°    |       |            |
| desc. node          | -2911 Aug 17 j 13:19 | 7°  38'55  |            |                     |  | -2908 Jan 17 j 13:49 | 0°   |       |            |
|                     | -2911 Sep 05 j 05:55 | 0°   |            | desc. node          |  | -2908 Feb 02 j 09:28 | 19°  | 06'44 |            |
|                     | -2911 Sep 30 j 21:35 | 0°   |            |                     |  | -2908 Feb 11 j 09:20 | 0°   |       |            |
|                     | -2911 Oct 28 j 01:01 | 0°   |            |                     |  | -2908 Mar 07 j 03:10 | 0°   |       |            |
| evening max el      | -2911 Nov 01 j 04:23 | 4°  17'25  | 47°25'24   |                     |  | -2908 Mar 31 j 19:24 | 0°   |       |            |
|                     | -2911 Nov 30 j 06:49 | 0°   |            |                     |  | -2908 Apr 25 j 09:33 | 0°   |       |            |
| asc. node           | -2911 Dec 08 j 12:17 | 4°  49'34  |            | morning set         |  | -2908 Apr 27 j 17:38 | 2°   | 51'26 |            |
| greatest brilliancy | -2911 Dec 11 j 15:51 | 6°  12'39  | -4.9m      |                     |  | -2908 May 19 j 20:55 | 0°   |       |            |
| retrograde          | -2911 Dec 22 j 08:14 | 8°  24'50  |            | asc. node           |  | -2908 May 25 j 08:19 | 6°   | 44'01 |            |
| evening set         | -2910 Jan 07 j 15:30 | 3°  05'55  |            | max. Earth dist.    |  | -2908 May 30 j 08:43 | 12°  | 54'35 | 1.73340 AU |
| min. Earth dist.    | -2910 Jan 11 j 07:58 | 0°   | 0.27905 AU |                     |  |                      |   |       |            |
| inferior conj       | -2910 Jan 12 j 08:46 | 0°   | 7°12'34    | superior conj       |  | -2908 Jun 02 j 16:11 | 16°  | 59'28 | 0°19'28    |
| minimum elong       | -2910 Jan 12 j 00:11 | 0°   | 7°11'07    | minimum elong       |  | -2908 Jun 02 j 12:24 | 16°  | 47'50 | 0°19'21    |
|                     | -2910 Jan 12 j 15:13 | 30°  R  |            |                     |  | -2908 Jun 13 j 05:01 | 0°   |       |            |
| morning rise        | -2910 Jan 16 j 09:22 | 27°  14'01   |            |                     |  | -2908 Jul 07 j 10:00 | 0°   |       |            |
| direct              | -2910 Feb 02 j 03:50 | 22°  09'27   |            | evening rise        |  | -2908 Jul 08 j 09:56 | 1°   | 14'20 |            |
| greatest brilliancy | -2910 Feb 10 j 23:34 | 23°  13'32   | -4.8m      |                     |  | -2908 Jul 31 j 12:58 | 0°   |       |            |
|                     | -2910 Feb 23 j 23:59 | 0°   |            |                     |  | -2908 Aug 24 j 15:44 | 0°   |       |            |
| morning max el      | -2910 Mar 23 j 03:15 | 22°  24'51   | 45°57'00   | desc. node          |  | -2908 Sep 14 j 01:25 | 25°  | 19'04 |            |
| desc. node          | -2910 Mar 30 j 06:36 | 29°  24'46   |            |                     |  | -2908 Sep 17 j 20:12 | 0°   |       |            |
|                     | -2910 Mar 30 j 20:39 | 0°   |            |                     |  | -2908 Oct 12 j 04:15 | 0°   |       |            |
|                     | -2910 Apr 28 j 03:05 | 0°   |            |                     |  | -2908 Nov 05 j 18:50 | 0°   |       |            |
|                     | -2910 May 24 j 14:22 | 0°   |            |                     |  | -2908 Nov 30 j 22:49 | 0°   |       |            |
|                     | -2910 Jun 19 j 03:05 | 0°   |            |                     |  | -2908 Dec 27 j 10:02 | 0°   |       |            |
|                     | -2910 Jul 14 j 00:04 | 0°   |            | asc. node           |  | -2907 Jan 05 j 00:10 | 9°   | 07'59 |            |
| asc. node           | -2910 Jul 21 j 06:11 | 8°  11'52'19   |            | evening max el      |  | -2907 Jan 11 j 06:33 | 15°  | 31'21 | 46°09'57   |
|                     | -2910 Aug 07 j 08:59 | 0°   |            |                     |  | -2907 Jan 26 j 21:05 | 0°   |       |            |
|                     | -2910 Aug 31 j 09:20 | 0°   |            | greatest brilliancy |  | -2907 Feb 19 j 00:20 | 14°  | 55'59 | -4.8m      |
| greatest brilliancy | -2910 Sep 12 j 15:59 | 15°  26'46   | -3.9m      | retrograde          |  | -2907 Mar 01 j 20:00 | 17°  | 04'36 |            |
| morning set         | -2910 Sep 16 j 13:04 | 20°  20'04   |            | evening set         |  | -2907 Mar 18 j 20:47 | 11°  | 28'15 |            |
|                     | -2910 Sep 24 j 04:57 | 0°   |            | inferior conj       |  | -2907 Mar 23 j 05:56 | 8°   | 44'07 | 6°46'19    |
|                     | -2910 Oct 17 j 23:21 | 0°   |            | minimum elong       |  | -2907 Mar 23 j 14:32 | 8°   | 30'25 | 6°44'53    |
|                     |                      |   |            | min. Earth dist.    |  | -2907 Mar 23 j 12:28 | 8°   | 33'42 | 0.29245 AU |
| superior conj       | -2910 Oct 27 j 01:25 | 11°  27'24   | 0°31'58    | morning rise        |  | -2907 Mar 28 j 08:27 | 5°   | 34'39 |            |
| minimum elong       | -2910 Oct 27 j 09:29 | 11°  52'50   | 0°31'34    | direct              |  | -2907 Apr 13 j 22:42 | 0°   |       |            |
| max. Earth dist.    | -2910 Oct 29 j 22:34 | 15°  05'15   | 1.70956 AU | greatest brilliancy |  | -2907 Apr 23 j 23:26 | 2°   | 09'09 | -4.7m      |
| desc. node          | -2910 Nov 09 j 23:37 | 28°  05'11   |            | desc. node          |  | -2907 Apr 26 j 18:09 | 3°   | 13'47 |            |
|                     | -2910 Nov 10 j 18:58 | 0°   |            |                     |  | -2907 Jun 01 j 15:06 | 0°   |       |            |
|                     | -2910 Dec 04 j 17:04 | 0°   |            | morning max el      |  | -2907 Jun 01 j 19:20 | 0°   | 10'06 | 45°50'05   |
| evening rise        | -2910 Dec 08 j 11:53 | 4°  14'3'54  |            |                     |  | -2907 Jun 30 j 14:46 | 0°   |       |            |

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
|                     | -2907 Jul 27 j 00:21 | 0°♄       |            |                     | -2904 Feb 28 j 18:08 | 0°♅       |            |
| asc. node           | -2907 Aug 17 j 17:55 | 25°♄51'42 |            | evening max el      | -2904 Mar 23 j 00:01 | 23°♅52'12 | 45°11'49   |
|                     | -2907 Aug 21 j 03:54 | 0°♄       |            |                     | -2904 Mar 29 j 14:20 | 0°♄       |            |
|                     | -2907 Sep 14 j 13:42 | 0°♄       |            | greatest brilliancy | -2904 Apr 29 j 15:08 | 21°♄09'31 | -4.7m      |
|                     | -2907 Oct 08 j 13:44 | 0°♄       |            | retrograde          | -2904 May 10 j 06:58 | 23°♄11'29 |            |
|                     | -2907 Nov 01 j 10:06 | 0°♄       |            | desc. node          | -2904 May 24 j 05:56 | 19°♄27'21 |            |
|                     | -2907 Nov 25 j 06:48 | 0°♄       |            | evening set         | -2904 May 25 j 04:56 | 18°♄57'25 |            |
| morning set         | -2907 Dec 02 j 03:48 | 8°♄37'30  |            | inferior conj       | -2904 May 31 j 16:41 | 15°♄08'41 | -1°43'42   |
| desc. node          | -2907 Dec 07 j 11:42 | 15°♄18'03 |            | minimum elong       | -2904 May 31 j 12:54 | 15°♄14'32 | 1°42'32    |
|                     | -2907 Dec 19 j 05:45 | 0°♄       |            | min. Earth dist.    | -2904 Jun 01 j 03:55 | 14°♄51'21 | 0.28698 AU |
|                     | -2906 Jan 12 j 07:27 | 0°♄       |            | morning rise        | -2904 Jun 06 j 20:11 | 11°♄28'57 |            |
|                     |                      |           |            | direct              | -2904 Jun 22 j 08:20 | 6°♄53'05  |            |
| superior conj       | -2906 Jan 12 j 22:14 | 0°♄45'56  | -1°11'26   | greatest brilliancy | -2904 Jul 03 j 10:17 | 9°♄04'45  | -4.8m      |
| minimum elong       | -2906 Jan 12 j 12:18 | 0°♄15'02  | 1°11'16    |                     | -2904 Aug 02 j 15:12 | 0°♄       |            |
| max. Earth dist.    | -2906 Jan 17 j 04:05 | 6°♄02'18  | 1.72280 AU | morning max el      | -2904 Aug 11 j 00:16 | 7°♄57'17  | 46°21'40   |
|                     | -2906 Feb 05 j 12:00 | 0°♄       |            |                     | -2904 Aug 31 j 23:53 | 0°♄       |            |
| evening rise        | -2906 Feb 21 j 06:49 | 19°♄29'17 |            | asc. node           | -2904 Sep 14 j 05:36 | 14°♄57'17 |            |
| greatest brilliancy | -2906 Feb 25 j 05:24 | 24°♄20'33 | -3.9m      |                     | -2904 Sep 27 j 02:07 | 0°♄       |            |
|                     | -2906 Mar 01 j 19:45 | 0°♄       |            |                     | -2904 Oct 21 j 22:14 | 0°♄       |            |
|                     | -2906 Mar 26 j 07:25 | 0°♄       |            |                     | -2904 Nov 15 j 05:48 | 0°♄       |            |
| asc. node           | -2906 Mar 30 j 10:08 | 5°♄01'04  |            |                     | -2904 Dec 09 j 09:41 | 0°♄       |            |
|                     | -2906 Apr 19 j 23:47 | 0°♄       |            |                     | -2903 Jan 02 j 14:07 | 0°♄       |            |
|                     | -2906 May 14 j 21:56 | 0°♄       |            | desc. node          | -2903 Jan 03 j 23:41 | 1°♄43'53  |            |
|                     | -2906 Jun 09 j 04:10 | 0°♄       |            |                     | -2903 Jan 26 j 20:25 | 0°♄       |            |
|                     | -2906 Jul 04 j 23:52 | 0°♄       |            | morning set         | -2903 Feb 15 j 17:13 | 24°♄29'40 |            |
| desc. node          | -2906 Jul 20 j 03:24 | 17°♄05'18 |            |                     | -2903 Feb 20 j 04:30 | 0°♄       |            |
|                     | -2906 Jul 31 j 22:33 | 0°♄       |            |                     | -2903 Mar 16 j 13:55 | 0°♄       |            |
| evening max el      | -2906 Aug 18 j 14:41 | 18°♄18'34 | 47°05'43   |                     |                      |           |            |
|                     | -2906 Aug 31 j 00:19 | 0°♄       |            | superior conj       | -2903 Mar 25 j 09:40 | 10°♄50'29 | -1°06'18   |
| greatest brilliancy | -2906 Sep 28 j 14:56 | 19°♄02'24 | -4.9m      | minimum elong       | -2903 Mar 25 j 18:25 | 11°♄17'21 | 1°06'04    |
| retrograde          | -2906 Oct 07 j 23:25 | 20°♄41'42 |            | max. Earth dist.    | -2903 Mar 25 j 20:44 | 11°♄24'28 | 1.73592 AU |
| evening set         | -2906 Oct 22 j 22:58 | 16°♄16'44 |            |                     | -2903 Apr 10 j 00:13 | 0°♄       |            |
| inferior conj       | -2906 Oct 28 j 12:35 | 12°♄59'29 | -3°11'22   | asc. node           | -2903 Apr 26 j 22:22 | 20°♄46'02 |            |
| minimum elong       | -2906 Oct 28 j 19:27 | 12°♄48'58 | 3°09'17    | evening rise        | -2903 Apr 30 j 20:32 | 25°♄34'48 |            |
| min. Earth dist.    | -2906 Oct 28 j 11:19 | 13°♄01'24 | 0.26343 AU |                     | -2903 May 04 j 11:02 | 0°♄       |            |
| morning rise        | -2906 Nov 03 j 16:00 | 9°♄24'10  |            |                     | -2903 May 28 j 22:09 | 0°♄       |            |
| asc. node           | -2906 Nov 10 j 02:37 | 6°♄37'48  |            |                     | -2903 Jun 22 j 09:56 | 0°♄       |            |
| direct              | -2906 Nov 17 j 18:12 | 5°♄25'18  |            |                     | -2903 Jul 16 j 23:41 | 0°♄       |            |
| greatest brilliancy | -2906 Nov 27 j 20:37 | 7°♄21'39  | -4.9m      |                     | -2903 Aug 10 j 17:42 | 0°♄       |            |
|                     | -2906 Dec 29 j 15:18 | 0°♄       |            | desc. node          | -2903 Aug 16 j 15:19 | 7°♄06'14  |            |
| morning max el      | -2905 Jan 06 j 22:35 | 8°♄02'58  | 46°35'40   |                     | -2903 Sep 04 j 19:44 | 0°♄       |            |
|                     | -2905 Jan 27 j 20:10 | 0°♄       |            |                     | -2903 Sep 30 j 13:31 | 0°♄       |            |
|                     | -2905 Feb 23 j 14:03 | 0°♄       |            |                     | -2903 Oct 27 j 22:03 | 0°♄       |            |
| desc. node          | -2905 Mar 01 j 21:08 | 7°♄14'05  |            | evening max el      | -2903 Oct 29 j 20:22 | 1°♄59'10  | 47°26'56   |
|                     | -2905 Mar 21 j 10:40 | 0°♄       |            |                     | -2903 Dec 01 j 13:24 | 0°♄       |            |
|                     | -2905 Apr 15 j 19:54 | 0°♄       |            | asc. node           | -2903 Dec 07 j 14:29 | 3°♄10'25  |            |
|                     | -2905 May 10 j 20:54 | 0°♄       |            | greatest brilliancy | -2903 Dec 09 j 07:16 | 3°♄53'06  | -4.9m      |
|                     | -2905 Jun 04 j 14:31 | 0°♄       |            | retrograde          | -2903 Dec 20 j 00:27 | 6°♄05'54  |            |
| asc. node           | -2905 Jun 22 j 20:20 | 22°♄21'51 |            | evening set         | -2902 Jan 05 j 03:34 | 0°♄51'50  |            |
|                     | -2905 Jun 29 j 00:58 | 0°♄       |            |                     | -2902 Jan 06 j 14:04 | 30°♄♄     |            |
| morning set         | -2905 Jul 04 j 21:09 | 7°♄13'27  |            | min. Earth dist.    | -2902 Jan 08 j 22:07 | 28°♄32'36 | 0.27826 AU |
|                     | -2905 Jul 23 j 04:55 | 0°♄       |            | inferior conj       | -2902 Jan 09 j 23:48 | 27°♄52'00 | 7°01'33    |
| max. Earth dist.    | -2905 Aug 07 j 04:36 | 18°♄44'15 | 1.71739 AU | minimum elong       | -2902 Jan 09 j 14:54 | 28°♄06'05 | 6°59'57    |
|                     |                      |           |            | morning rise        | -2902 Jan 14 j 02:47 | 25°♄18'51 |            |
| superior conj       | -2905 Aug 10 j 21:59 | 23°♄24'23 | 1°22'39    | direct              | -2902 Jan 30 j 18:23 | 19°♄52'32 |            |
| minimum elong       | -2905 Aug 10 j 18:28 | 23°♄13'21 | 1°22'43    | greatest brilliancy | -2902 Feb 08 j 13:06 | 21°♄19'18 | -4.8m      |
|                     | -2905 Aug 16 j 04:07 | 0°♄       |            |                     | -2902 Feb 24 j 23:19 | 0°♄       |            |
|                     | -2905 Sep 09 j 01:02 | 0°♄       |            | morning max el      | -2902 Mar 20 j 19:09 | 20°♄13'54 | 45°57'56   |
| evening rise        | -2905 Sep 18 j 18:26 | 12°♄13'35 |            | desc. node          | -2902 Mar 29 j 08:47 | 28°♄40'13 |            |
|                     | -2905 Oct 02 j 22:02 | 0°♄       |            |                     | -2902 Mar 30 j 16:17 | 0°♄       |            |
| desc. node          | -2905 Oct 12 j 13:37 | 12°♄06'22 |            |                     | -2902 Apr 27 j 17:52 | 0°♄       |            |
|                     | -2905 Oct 26 j 20:44 | 0°♄       |            |                     | -2902 May 24 j 03:12 | 0°♄       |            |
|                     | -2905 Nov 19 j 22:22 | 0°♄       |            |                     | -2902 Jun 18 j 14:57 | 0°♄       |            |
|                     | -2905 Dec 14 j 04:47 | 0°♄       |            |                     | -2902 Jul 13 j 11:25 | 0°♄       |            |
|                     | -2904 Jan 07 j 19:55 | 0°♄       |            | asc. node           | -2902 Jul 20 j 08:13 | 8°♄24'02  |            |
| asc. node           | -2904 Feb 02 j 11:58 | 0°♄25'20  |            |                     | -2902 Aug 06 j 20:04 | 0°♄       |            |
|                     | -2904 Feb 02 j 03:15 | 0°♄       |            |                     | -2902 Aug 30 j 20:20 | 0°♄       |            |

## Planetary Phenomena of Venus from -3400 through -2898 (UT), Astrodienst AG 18-Feb-2025 14:22, page 101

Attention, astronomical year style is used: The year -3400 in astronomical counting style is the year 3401 BCE in historical counting style.

|                     |                      |           |            |                     |                      |           |            |
|---------------------|----------------------|-----------|------------|---------------------|----------------------|-----------|------------|
| greatest brilliancy | -2902 Sep 11 j 19:55 | 15°Ω04'36 | -3.9m      | retrograde          | -2899 Feb 27 j 12:38 | 14°✠56'30 |            |
| morning set         | -2902 Sep 14 j 01:46 | 17°Ω54'16 |            | evening set         | -2899 Mar 16 j 16:11 | 9°✠16'37  |            |
|                     | -2902 Sep 23 j 15:56 | 0°♊       |            | inferior conj       | -2899 Mar 20 j 22:57 | 6°✠35'55  | 6°57'10    |
|                     | -2902 Oct 17 j 10:22 | 0°♈       |            | minimum elong       | -2899 Mar 21 j 07:18 | 6°✠22'37  | 6°55'51    |
|                     |                      |           |            | min. Earth dist.    | -2899 Mar 21 j 04:55 | 6°✠26'24  | 0.29233 AU |
| superior conj       | -2902 Oct 24 j 10:41 | 8°♊50'34  | 0°35'37    | morning rise        | -2899 Mar 25 j 22:32 | 3°✠30'20  |            |
| minimum elong       | -2902 Oct 24 j 19:28 | 9°♊18'16  | 0°35'14    |                     | -2899 Apr 02 j 01:51 | 30°♊      |            |
| max. Earth dist.    | -2902 Oct 27 j 05:53 | 12°♊22'20 | 1.70941 AU | direct              | -2899 Apr 11 j 14:53 | 28°♊12'03 |            |
| desc. node          | -2902 Nov 09 j 01:48 | 28°♊31'17 |            | greatest brilliancy | -2899 Apr 21 j 14:50 | 0°✠00'05  | -4.7m      |
|                     | -2902 Nov 10 j 06:01 | 0°♋       |            |                     | -2899 Apr 21 j 14:44 | 0°✠       |            |
|                     | -2902 Dec 04 j 04:09 | 0°♌       |            | desc. node          | -2899 Apr 25 j 20:18 | 1°✠42'57  |            |
| evening rise        | -2902 Dec 05 j 21:25 | 2°♌09'03  |            | morning max el      | -2899 May 30 j 10:32 | 27°✠58'43 | 45°49'38   |
|                     | -2902 Dec 28 j 05:27 | 0°♍       |            |                     | -2899 Jun 01 j 12:58 | 0°♎       |            |
|                     | -2901 Jan 21 j 11:02 | 0°♎       |            |                     | -2899 Jun 30 j 06:17 | 0°♏       |            |
|                     | -2901 Feb 14 j 23:06 | 0°✠       |            |                     | -2899 Jul 26 j 13:42 | 0°♐       |            |
| asc. node           | -2901 Mar 02 j 00:08 | 18°✠11'16 |            | asc. node           | -2899 Aug 16 j 20:02 | 25°♐20'31 |            |
|                     | -2901 Mar 11 j 20:58 | 0°♑       |            |                     | -2899 Aug 20 j 16:14 | 0°♑       |            |
|                     | -2901 Apr 06 j 09:41 | 0°♒       |            |                     | -2899 Sep 14 j 01:32 | 0°♒       |            |
|                     | -2901 May 02 j 22:47 | 0°♓       |            |                     | -2899 Oct 08 j 01:19 | 0°♓       |            |
|                     | -2901 May 31 j 15:41 | 0°♈       |            |                     | -2899 Oct 31 j 21:31 | 0°♈       |            |
| evening max el      | -2901 Jun 03 j 12:43 | 2°♈46'41  | 45°38'47   |                     | -2899 Nov 24 j 18:07 | 0°♉       |            |
| desc. node          | -2901 Jun 21 j 17:44 | 18°♈42'52 |            | morning set         | -2899 Nov 29 j 13:18 | 6°♉01'27  |            |
|                     | -2901 Jul 10 j 00:40 | 0°♉       |            | desc. node          | -2899 Dec 06 j 13:46 | 14°♉49'19 |            |
| greatest brilliancy | -2901 Jul 13 j 00:26 | 1°♉06'54  | -4.8m      |                     | -2899 Dec 18 j 16:58 | 0°♊       |            |
| retrograde          | -2901 Jul 22 j 13:01 | 2°♉44'41  |            |                     |                      |           |            |
|                     | -2901 Aug 03 j 10:03 | 30°♊      |            | superior conj       | -2898 Jan 10 j 09:52 | 28°♊18'19 | -1°09'24   |
| evening set         | -2901 Aug 09 j 05:17 | 26°♊56'49 |            | minimum elong       | -2898 Jan 09 j 23:28 | 27°♊46'01 | 1°09'11    |
| inferior conj       | -2901 Aug 12 j 11:39 | 24°♊59'14 | -8°46'16   |                     |                      |           |            |
| minimum elong       | -2901 Aug 12 j 08:16 | 25°♊04'23 | 8°46'03    |                     |                      |           |            |
| min. Earth dist.    | -2901 Aug 12 j 21:51 | 24°♊43'44 | 0.27516 AU |                     |                      |           |            |
| morning rise        | -2901 Aug 15 j 11:07 | 23°♊11'36 |            |                     |                      |           |            |
| direct              | -2901 Sep 02 j 12:04 | 17°♊06'48 |            |                     |                      |           |            |
| greatest brilliancy | -2901 Sep 13 j 09:07 | 19°♊19'31 | -4.9m      |                     |                      |           |            |
|                     | -2901 Sep 30 j 22:44 | 0°♋       |            |                     |                      |           |            |
| asc. node           | -2901 Oct 12 j 17:14 | 10°♋10'13 |            |                     |                      |           |            |
| morning max el      | -2901 Oct 23 j 06:32 | 20°♋32'08 | 46°52'19   |                     |                      |           |            |
|                     | -2901 Nov 01 j 06:30 | 0°♌       |            |                     |                      |           |            |
|                     | -2901 Nov 27 j 20:26 | 0°♍       |            |                     |                      |           |            |
|                     | -2901 Dec 23 j 04:21 | 0°♎       |            |                     |                      |           |            |
|                     | -2900 Jan 17 j 02:24 | 0°♏       |            |                     |                      |           |            |
| desc. node          | -2900 Feb 01 j 11:26 | 18°♏36'04 |            |                     |                      |           |            |
|                     | -2900 Feb 10 j 21:13 | 0°♐       |            |                     |                      |           |            |
|                     | -2900 Mar 06 j 14:32 | 0°♑       |            |                     |                      |           |            |
|                     | -2900 Mar 31 j 06:24 | 0°✠       |            |                     |                      |           |            |
|                     | -2900 Apr 24 j 20:19 | 0°♑       |            |                     |                      |           |            |
| morning set         | -2900 Apr 25 j 12:42 | 0°♑50'03  |            |                     |                      |           |            |
|                     | -2900 May 19 j 07:37 | 0°♒       |            |                     |                      |           |            |
| asc. node           | -2900 May 24 j 10:29 | 6°♒17'46  |            |                     |                      |           |            |
| max. Earth dist.    | -2900 May 28 j 04:30 | 10°♒54'46 | 1.73379 AU |                     |                      |           |            |
|                     |                      |           |            |                     |                      |           |            |
| superior conj       | -2900 May 31 j 11:17 | 14°♒57'24 | 0°16'30    |                     |                      |           |            |
| minimum elong       | -2900 May 31 j 08:04 | 14°♒47'30 | 0°16'24    |                     |                      |           |            |
|                     | -2900 Jun 12 j 15:46 | 0°♓       |            |                     |                      |           |            |
| evening rise        | -2900 Jul 06 j 04:14 | 29°♓08'14 |            |                     |                      |           |            |
|                     | -2900 Jul 06 j 20:55 | 0°♈       |            |                     |                      |           |            |
|                     | -2900 Jul 31 j 00:07 | 0°♉       |            |                     |                      |           |            |
|                     | -2900 Aug 24 j 03:11 | 0°♊       |            |                     |                      |           |            |
| desc. node          | -2900 Sep 13 j 03:33 | 24°♊49'14 |            |                     |                      |           |            |
|                     | -2900 Sep 17 j 08:02 | 0°♋       |            |                     |                      |           |            |
|                     | -2900 Oct 11 j 16:37 | 0°♌       |            |                     |                      |           |            |
|                     | -2900 Nov 05 j 07:59 | 0°♍       |            |                     |                      |           |            |
|                     | -2900 Nov 30 j 13:21 | 0°♎       |            |                     |                      |           |            |
|                     | -2900 Dec 27 j 03:53 | 0°♏       |            |                     |                      |           |            |
| asc. node           | -2899 Jan 04 j 02:11 | 8°♏21'56  |            |                     |                      |           |            |
| evening max el      | -2899 Jan 08 j 21:28 | 13°♏14'53 | 46°12'51   |                     |                      |           |            |
|                     | -2899 Jan 27 j 04:47 | 0°✠       |            |                     |                      |           |            |
| greatest brilliancy | -2899 Feb 16 j 18:19 | 12°✠48'39 | -4.8m      |                     |                      |           |            |