

## Figure 11 Earth at Venus Pentagrams and Sun Pentagrams

The figure arises from the sequential plotting of the positions of Earth in its orbit at two specific constellations and the connecting lines. These are firstly the Venus/Earth conjunctions and secondly the Venus-Sun-Views or, rather, every fifth one, i.e. whenever a Sun pentagram is completed (explanation see below). 1,700 positions of Earth were plotted, i.e. at 850 conjunctions and 850 Sun pentagrams in ca. 1,358.5 years, beginning with the first position after 1 January 2000. In Figure 11 the first 700 lines are shown in red, the next 500 in blue, and the remaining 500 in green.

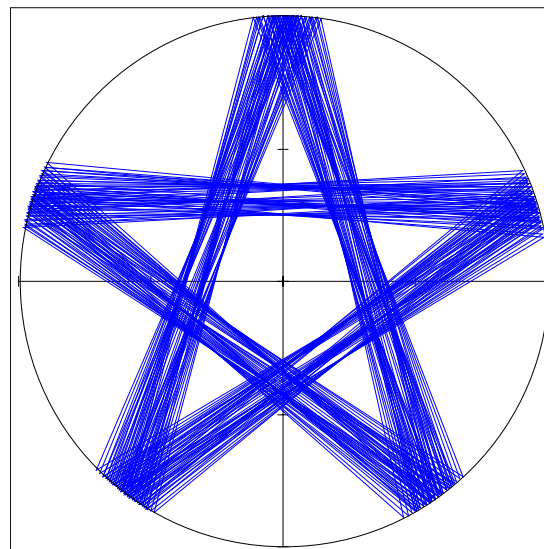
Both Venus and the Earth draw a five-pointed star in their heliocentric orbits if the succeeding positions are marked and connected at common conjunctions. This star figure also appears in a geocentric view. It has been well known as the *pentagramma veneris* for a long time, maybe the Babylonians already knew it. The mean value of the conjunction period is 583.92 days so that one cycle covers almost exactly 8 years.

The period of Venus rotation could not be determined by radar measurements prior to 1964. It is approx. 243.02 days and, moreover, the turn is set against the direction of the orbital movement of all the planets and the rotational direction of most of them. Therefore a day on Venus takes 116.75 (Earth-)days. Now one can imagine a fixed point on a horizontal axis of Venus. Then this is directed exactly towards the Sun every 116.75 days. Venus so to speak looks towards the Sun in this rhythm so that the author also describes the period as a Venus-Sun-View.

The mean period of the solar rotation is 25.38 days. If one defines a point on a horizontal axis of the rotating Sun and continuously marks its position in the rhythm of the Venus-Sun-View, surprisingly another pentagram appears (see drawing below).

The Sun pentagram forms within 583.75 days, therefore almost exactly in the period of the Venus/Earth-conjunction. If the position of the Earth in its orbit is now marked and sequential points are connected both at Venus/Earth-conjunctions and at completions of the Sun pentagrams, i.e. at every 5th Venus-Sun-View, the depiction of Figure 11 results. Since the two time-measures lie very close together, only very slow displacements result so that a relatively long space of time is needed for the formation of the complete shape.

There may be nothing special about the depiction from the purely astronomical point of view. Yet it, too, may succeed in showing us something of the cosmic order within which we have our place. And perhaps it will even cause something in our soul to ring out in accord with it.



Solar rotation at Venus-Sun-Views, 250 times, period 79.91 years. The vernal point on 1 January 2000 ( $0^\circ$ ) is in this instance situated at the top of the diagram.