

## Appendix 38 The Tychos – Our Geoaxial Binary System

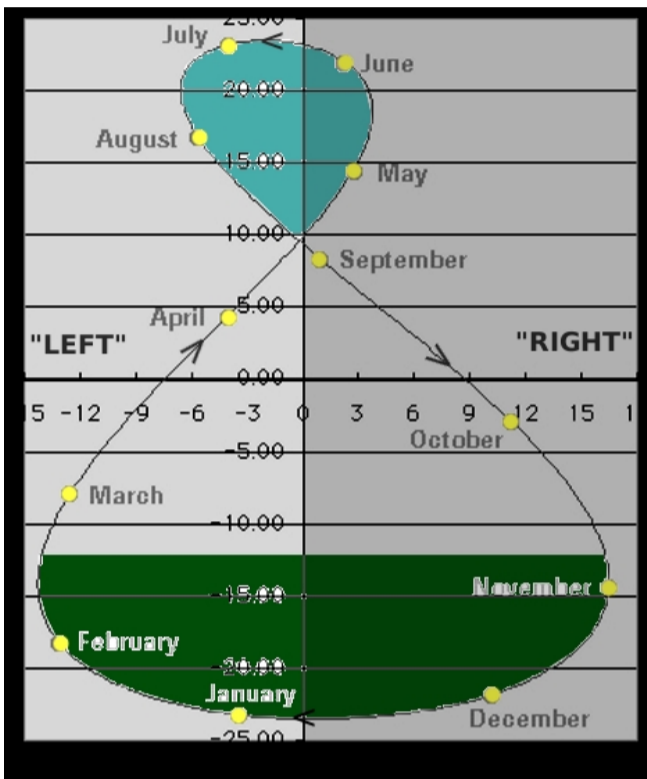
15 April 2020, 12:17 am<sup>1</sup>

### The Analemma: an update as to why the sun is almost never “on time”

I will now further elaborate on why the Sun is almost never synchronized with our clocks, which of course tick at a constant rate. In Chapter 26 of my book on the Tychos model, published in 2018, I tried to explain and illustrate the Analemma to the best of my ability, and I still stand by everything I wrote then. However, I now realize that the Analemma can be explained in a far simpler manner. Since I love to simplify things, here goes:

“Analemma” is the name given to the 8-shaped pattern that our Sun will trace in the sky over the course of a year if you take a picture of it at the same time every day. The problem is: to this day, no one has ever provided a rational explanation for why this 8-shape is asymmetric.

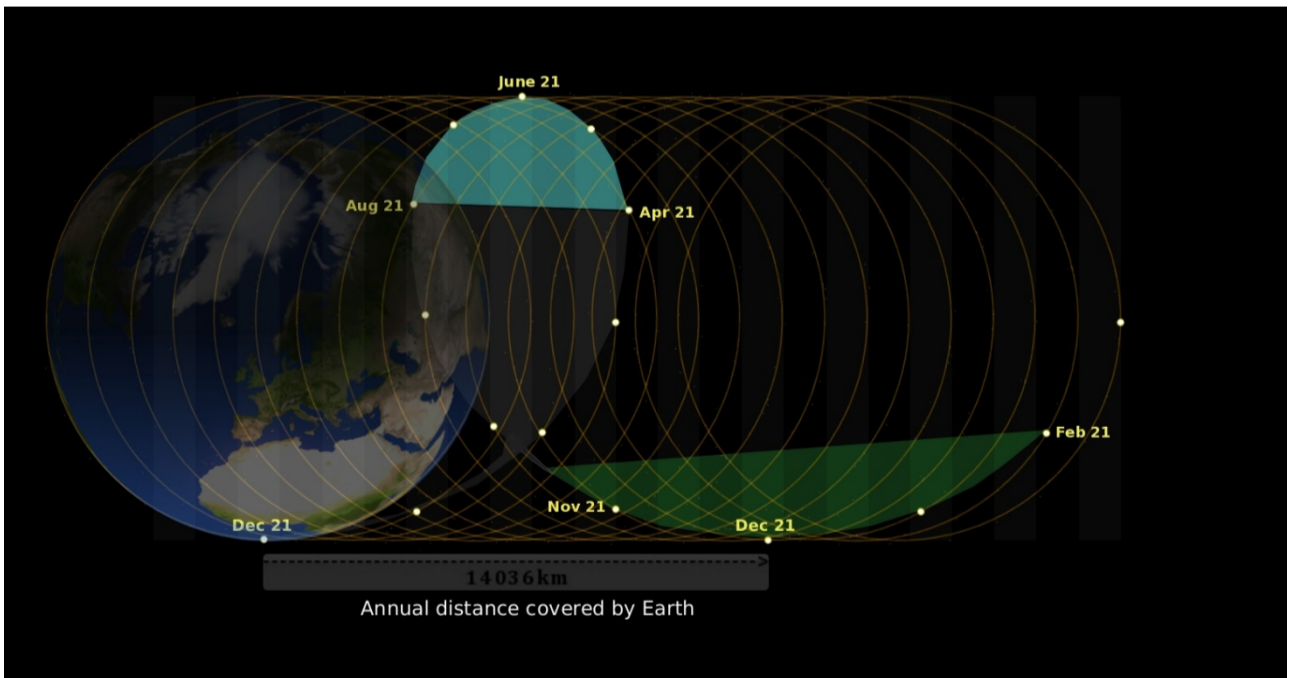
Here is a classic diagram of the Analemma, borrowed from an astronomy site (I have only added the blue and green zones). As you can see, the lower part is roughly 2.5 times wider than the upper part:



Now, there's of course no mystery as to why the Sun moves vertically (“up and down”) in the course of a year: this is due to Earth's 23.5° tilt. The mystery is why the Sun would also move sideways, and why, if you are observing it in the northern hemisphere, this sideways/lateral drift is far larger in the winter months than in the summer months.

The sideways drift causes our clocks to be “wrong” almost all the time. Only on four occasions every year (24 Dec, 15 Apr, 16 June, 29 Aug) will our clocks be correctly synched with the Sun, for example at noon when the Sun is at the “mean zenith”. And this is why we have the “equation of time”.<sup>2</sup>

But why are those lateral oscillations of the Sun (summer months vs. winter months) heftily asymmetric? Even on “specialized” websites, which treat the Analemma extensively, no clear-cut answer to this crucial question is provided.<sup>3</sup> The Tychos model, on the other hand, provides a “graphic” explanation for the asymmetry of the Analemma, as shown in this previously unpublished graphic:



The white dots in my above graphic represent an earthly observer/astronomer (let's call him “Joe”) who takes a picture of the Sun on the 21st day of each month for a full year. Since Joe will be carried around a trochoidal path caused by Earth moving slowly at 1 mph (1.6 km/h) around its PVP orbit, we can see just why he will end up seeing an asymmetric 8-shaped pattern of the Sun's yearly motions: roughly between April and August, the observer will be displaced laterally by a factor of “1”, whereas roughly between November and February, he will be displaced laterally by a factor of “2.5”. Yet, Joe will always be “trusting his clock”, which of course ticks at a constant rate, as he keeps snapping his pictures at noon.

I know, this may at first appear somewhat counter-intuitive and it took me years to wrap my head around it. Yet, I'm now confident I can make my case in front of a “scientific court of law”.

The Tychos model, I dare say, is here to stay.

<sup>1</sup> <https://cluesforum.info/viewtopic.php?p=2414094#p2414094>

<sup>2</sup> [https://en.wikipedia.org/wiki/Equation\\_of\\_time](https://en.wikipedia.org/wiki/Equation_of_time)

<sup>3</sup> <http://analemma.com/>