

Re: Alternative to the analemma hoax

Source: <http://sci.tech-archive.net/Archive/sci.astro.amateur/2008-08/msg00398.html>

- *From:* oriel36 <kelleher.gerald@xxxxxxxx>
 - *Date:* Tue, 19 Aug 2008 03:59:47 -0700 (PDT)
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On Aug 19, 1:14 am, "dkel...@xxxxxxxx" <dkel...@xxxxxxxx> wrote:

oriel36 wrote:

The principles which reduce the observation of natural noon to 24 hour noon in order to keep the 24 hours of Monday turning into the 24 hours of Tuesday were explained in detail by Huygens –

"Draw a Meridian line upon a floor... and then hang two plummets, each by a small thred or wire, directly over the said Meridian, at the distance of some 2. feet or more one from the other, as the smalness of the thred will admit. When the middle of the Sun (the Eye being placed so, as to bring both the threds into one line) appears to be in the same line exactly...you are then immediately to set the Watch, not precisely to the hour of 12. but by so much less, as is the Aequation of the day by the Table."

<http://www.xs4all.nl/~adcs/Huygens/06/kort-E.html>

At the Equator,there would be no variation whatsoever in the apparent elevation of the Sun,at higher latitudes,variations occur and at polar latitudes extreme variations occur.

<http://www.youtube.com/watch?v=nwTrYVBcx9s>

The specific and fascinating way a planet orbits the Sun by a slow change in its orbital orientation to the central Sun can be appreciated in that time lapse footage .It is a bit easier to see why the natural noon cycles vary due to an orbital component by analogy

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and by imagining that you are looking at a crankpin head on as it 'orbits' the central shaft –

<http://www.youtube.com/watch?v=YV9WkOkUHZ4>

The variations in the natural noon cycle when allied with axial rotation affirms the presence of the orbital component as the slow turning motion is in accordance with Kepler's view of orbital motion and geometry. and explains why there are no seasonal variations in daylight/darkness at the Equator but North and South experiences seasonal variations.

The analemma has no place in astronomy, never did.

It is not correct to say there are no seasonal variations in day/night at the equator. During our spring and fall, the days are longer at the equator. It is not a lot but easily measured. This can be easily seen by exaggerating the angle of the sun and using a spherical Earth. As for analemma, as one moves North or South from the equator, there is a tilt (I'd have to think which way) of the analemma. This is caused by the tilt of the Earth's axis.

Dwight,

I know you are doing your best and I also know so many here have come to rely on a 'tilting' Earth that they may miss exactly what causes both the variations in the noon cycles and seasonal daylight/darkness variations.

The problem may actually be no more than the word 'tilt' as it is both a noun and a verb such as the Northern hemisphere 'tilts' towards the Sun in winter and away in summer. The Northern hemisphere does no such thing, the actual cause is the specific way our planet orbits the Sun where a location slowly turns through 360 degrees with respect to the central Sun rather than a given location keeping the same side to the Sun like a car travelling around a traffic circle keeps the same side to the center.

So Dwight, the daily rotation of the Earth causes you to experience daylight and darkness and generates that wonderful rotational orientation that you call 'tilt'. The seasonal variations comes from another source, the specific way a planet orbits the Sun, this separate

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motion to daily rotation is best appreciated through variations in the natural noon cycle as the orbital component does not change through 360 degrees evenly but changes in accordance with Kepler's view of orbital motion and geometry.

Now Dwight, remember that we now live in the 21st century and have a clear view of the Earth from space and you can enjoy what is happening from that perspective –

<http://www.youtube.com/watch?v=nwTrYVBcx9s>

<http://hubblesite.org/newscenter/archive/releases/1999/11/video/b>

Count yourself fortunate to have the seasons explained to you in a new way by using actual time lapse footage of the planets in motion and for those who wish to delve further, they can appreciate what causes the natural noon cycles to vary by applying the combination of daily rotation, the global orbital orientation change of a location using natural noon as a benchmark. Even in this information saturated era, this large modification is worth pursuing and especially now given the lack of interest the wider population has in respect to astronomy.

Time to set aside the pseudo–dynamic of 'tilt' and look at what is actually happening.

Since, observation of the Sun is part of astronomy, the statement that it has no place is also not correct. You may not like this but that is life. The real universe doesn't care what you like.

The vertical axis of the analemma is caused, mostly, by the tilt of the Earth

axis. The spread or horizontal is, mostly, caused by the elliptical orbit.

These two do interact a little since the Earth tilt doesn't line up exactly with the major axis of the orbit.

Dwight– Hide quoted text –

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