

Re: cesium clock question

Source: <http://sci.tech-archive.net/Archive/sci.physics/2008-10/msg01784.html>

- *From:* Sam Wormley <swormley1@xxxxxxxxxx>
 - *Date:* Sun, 19 Oct 2008 12:49:04 GMT
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Tom Potter wrote:

"Sam Wormley" <swormley1@xxxxxxxxxx> wrote in message [news:evJJk.335455\\$TT4.302562@xxxxxxxxxxxxxx](mailto:news:evJJk.335455$TT4.302562@xxxxxxxxxxxxxx)

Tom Potter wrote:

"Sam Wormley" <swormley1@xxxxxxxxxx> wrote in message [news:jl0Jk.387412\\$yE1.38880@xxxxxxxxxxxxxx](mailto:news:jl0Jk.387412$yE1.38880@xxxxxxxxxxxxxx)

Ironic, isn't it Potter, that relativity predicts just the right values for engineers to make the GPS work accurately and for the LHC and other particle accelerators work properly.

Sammy, I know you keep saying that, and the General Relativity Guru's on the taxpayer dole say that, but why don't you work out JUST ONE example of this for JUST ONE interaction between a GPS satellite and a GPS receiver and don't use any of Maxwell's, Newton's, Doppler, Galileo, or Hubble hacks to fudge your answer.

Potter, see the example in:

<http://relativity.livingreviews.org/open?pubNo=lrr-2003-1&page=node5.html>

Sammy,

As can be seen from your reference which is quoted below, the designers of the ***GALILEO*** system make light of the claim that General Relativity is essential, and they leave the SO-CALLED "Relativity" corrections to the computer programmers and engineers at Garmin, etc.

And as can be seen,

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your favorite General Relativity Guru,
who is on the taxpayer dole,
is forced to acknowledge that what he hypes as "large correction
terms"
are necessary to correct for effects that he calls "relativity
effects".

1. It appears that your guru does not know that the size of the
"correction term"
is not important, but what is important is the fineness of the
"correction term".

2. It appears that your guru does not know that what he attributes to
"relativity"
system engineers attribute to distance, velocity, acceleration,
temperature,
component aging, pressure, variations in the ionosphere, etc.

System engineers understand that "relativity" doesn't affect anything
except the minds of Einstein Cultists, and the Guru's
who profit from the public's gullibility.

"Information released in 2006 by the GALILEO project [25] states that
relativistic corrections will be the responsibility of the users (that
is, the receivers). This means that GNSS devices capable of receiving
both GPS and GALILEO signals will have to contain additional
relativity software to process GALILEO signals. Since no "factory
frequency offset" is applied to atomic clocks in the GALILEO
satellites, relativity effects will cause satellite clock time to ramp
away from TAI and will require large correction terms to be
transmitted to users."

Sammy considering
"that relativistic corrections will be the responsibility of the
users"
and that these corrections will be made in the GPS receivers,

why don't you post some algorithms used in the GPS receivers
and prove that these "corrections" are made to correct for
"Relativity"
rather than for velocity, acceleration, distance, etc.?

Potter, you wouldn't be so ignorant if you read (and digested)
<http://relativity.livingreviews.org/open?pubNo=lr-2003-1&page=node5.html>

You could sure shut up the heretics who don't worship General

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Relativity

if you posted some of these powerful, esoteric algorithms
that have to be used in the GPS receivers
to make the GPS System work.

As the old saying goes:

"Faith is the belief in things unseen."

Many heretics want to see the actual General Relativity
algorithms used to correct for "Relativity",
as opposed to velocity, acceleration, etc.

Keep the "faith" brother!

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Tom Potter

<http://www.geocities.com/tdp1001/index.html>

<http://notsocrazyideas.blogspot.com>

<http://www.flickr.com/photos/tom-potter/>

<http://tdp1001.wiki.zoho.com>

<http://groups.msn.com/PotterPhotos>

<http://www.androcles01.pwp.blueyonder.co.uk/dingleberry.htm>