June 21 2022

I stopped the data collection. But that does not mean the project is over.

The “gravity project” as my kids call it and as I refer to it, has two distinct parts: gravity and mass. Gravity is the swinging pendulums. Mass is the rotating pendulums. (Anniversary clocks)

And the data is further subdivided into two more: data by day and data by hour.

So:

gravity daily

Gravity hourly

Mass daily

Mass hourly.

The majority of the data was collected as one out of 19. I have seen issues with the data that put suspicion on the sampling. I have data collected as every point. This helps evaluate the sampling question.

The Python scripts are pretty complete and the treatment of the data is, on a preliminary level, started. There are four Python scripts corresponding to the above four. They are reading off the same databases, but pulling out different rows; There are three gravity rows and three mass rows. The data interpretation follows one track or the other.

The Python scripts take data from a database, summarizes it and put it in a summary database. The summary is the average for the chosen time interval. The database is sqlite3 and I use DB Browser. The excel graphs were a cut and paste from these summary databases to excel.

Please look at the graphs added to this repository. And be very aware that every point is an average

It would be nice if the data was nice and clean with the predicted variation. But it is not. Now what? I am trying to figure that out!

Gravity and mass. Are they constant? This is a Boolean yes/no question. “Well, they are sort of constant” If they are “sort of constant” they that means they are not constant!

In addition, I have a significant amount of