## The Experiment:

- 1. There are 5 input files:
  - a. The first file contains 20 epochs, is part of the easy suite.
  - b. The other four contain 900 epochs (15 mins) each, downloaded from <a href="ftp://cddis.nasa.gov/gnss/data/highrate">ftp://cddis.nasa.gov/gnss/data/highrate</a>.
- 2. For each file, I randomly select N\_Trials=10 of the following errors:
  - a. Assistance error in position: uniform azimuth in 0-360 Deg, uniform distance in 0-3 Km
  - b. Assistance error in time: uniform integer number of milliseconds 0-2000
  - c. Random common bias added to all pseudo-ranges.
- 3. For each epoch in each file I calculate a Coarse-Time-Nav fix (from scratch), one for each set of errors described in 2. Repeat this section once with Diggelen's original algorithm, and once with my fixed algorithm.
- 4. I calculate the distribution of position estimation error, and the distribution of error in assistance-time error estimation.

## Plots:



