

GSI baseline experiment configuration would be as follows:

- Analysis grid 75 x 75 with 9 km resolution
- Forecast - parent domain as for the analysis and nest 10 x 10 at 3 km resolution
- Nest location would be initialized using global nature run storm location
- Observations - simulated from global OSSE
- Analysis cycling: Full cycling with interval of 6 h
- Automated script for cycling analysis-forecast-diapost
- Results management on line-
 - Analysis data (restart) would be overwritten in each cycle
 - Forecast data would be saved on MS
 - Diapost would produce ATCF output and only few fields for quick look at the analysis (zero time) and forecast
 - the fields for quick look would be: MSLP, TPW, 200 and 850 mb wind vectors, 500 mb geopotential height and temperature;
 - 3 plots would be produced with these as follows: panel (a) MSLP(contour) and TPW(filled color), panel (b) wind vectors 2 colors for 2 levels and panel (c) 500 mb geop (contour) and T(filled color)
 - We could add HWSS executable to the sequence to produce simulated either 37 or 89 GHz images Alternatively we could use UPP to produce data for the same set of plots, if more convenient
 - 4 panels would be displayed
- Other analysis of results including overlay of observation locations, differencing with the nature data etc would be done custom by pulling data off the MS and processing with still undecided tools

Mostly Bachir with Javier's help would be involved in setting up this experiment configuration. Lisa would create nest location data file (using global nature) and would help when/if needed with getting more data from global OSSE simulations (likely all needed is already on jet). Xuejin would be consulted when needed on forecast configuration

Other going in parallel priority work:

- Simulation of airborne observations from regional nature run (lead Lisa)
- Configuration and running of Whitaker/Winterbottom EnKF (lead Javier)
- Simulation of satellite obs using ARW nature (lead Tomi)