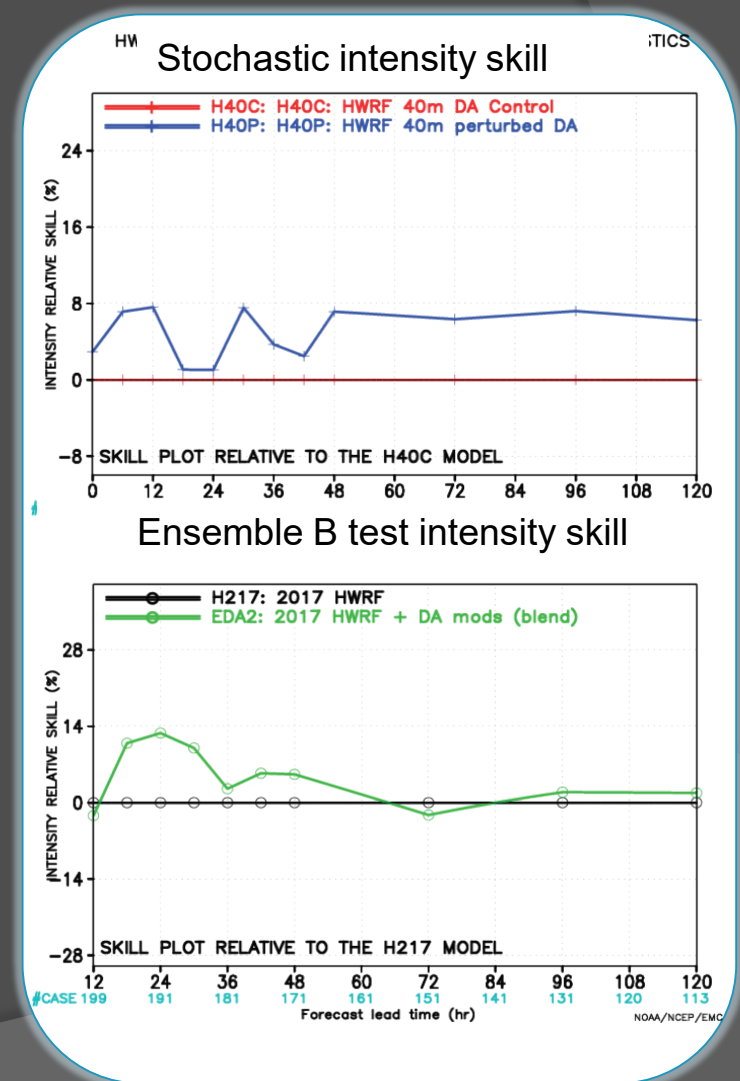# HFIP DA PRIORITIES (HWRF BIG TICKET)
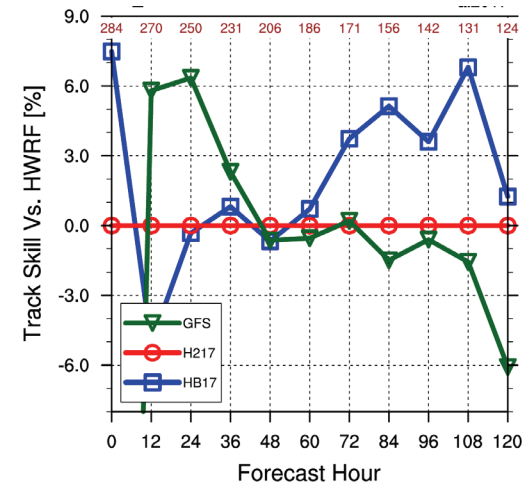
DA System Priorities

- ⦿ Expand use of new DA system (currently only 1 priority storm)

- ⦿ Deal with spindown
  - 4DEnVAR
  - Cycling frequency
  - Better integrate VM with DA
  - Cycle moist variables & vertical motion

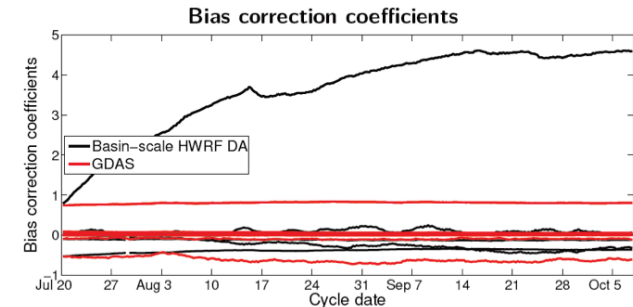Stochastic intensity skill

Ensemble B test intensity skill

Data Usage Priorities

- Fully mine unused data (88D, recon, satellite)

- Configure domains to enable effective radiance DA (i.e., move to basin-scale approach)
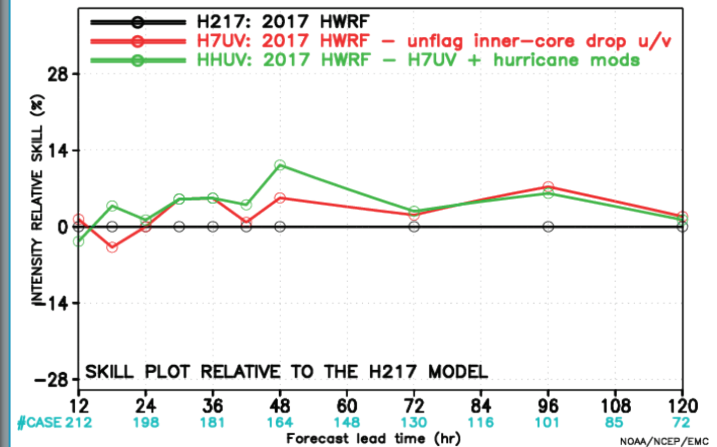
Basin-scale track skill 2017

Bias correction coefficients (HWRF vs GDAS)

Integrating DA, obs, and modeling

- Use OSEs and OSSEs to explore operational priorities

- Use DA system to inform ensemble prediction and targeting

Drop u/v test intensity skill

HWRF results from including dropsonde u/v from the inner core show we should be taking many more dropsonde observations than we currently do.

DA R2O priorities

- Currently we have development on ~5 different systems attempting to contribute to operations (HWRF,HWRFB,OU,HEDAS,OSSE)

- HWRF scripting/code architecture needs to be sufficiently usable for "R" so that we are not double, triple, or quadruple working