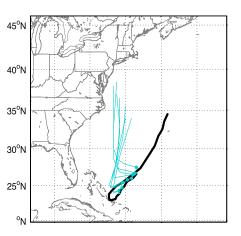
PSU HWRF-EnKF and ARW-HWRF real-time systems for Joaquin (2015)

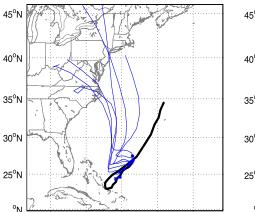


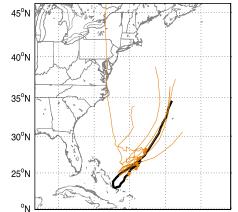
NHC OFCL

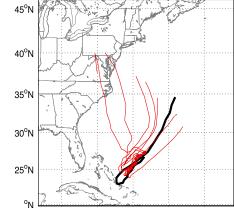
EMC HWRF

PSU HWRF-EnKF

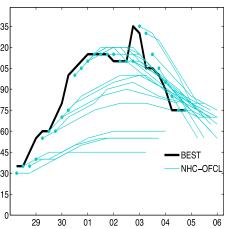
PSU ARW-EnKF







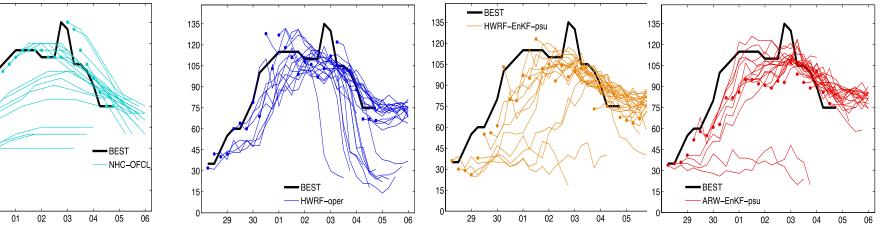
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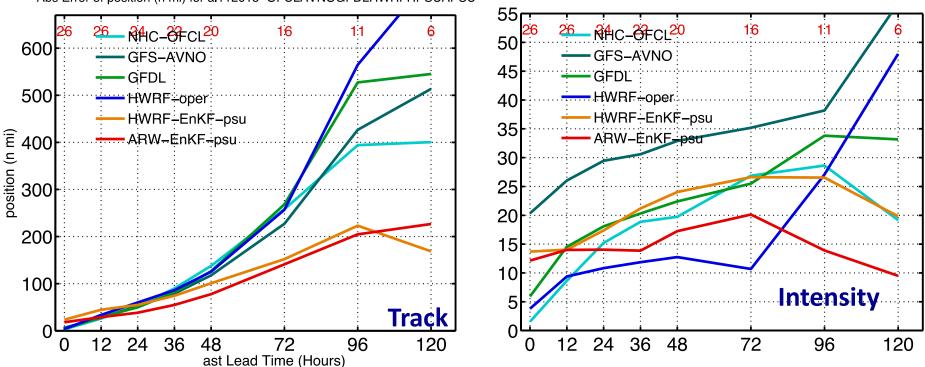
PSU HWRF-EnKF

PSU ARW-EnKF



- PSU HWRF-EnKF system initialized at 12Z Sep. 28, 2015 with GDAS analysis and its 80 perturbations;
- PSU ARW-EnKF system initialized at 00Z Sep. 28, 2015 with GDAS analysis, and generated 60-member ensemble with WRFDA;
- 6 hourly Cycling for both systems and ended at 00Z Oct. 6;
- All conventional observations including Recon, satellite derived winds were assimilated;
- ARW-EnKF system is stream 2.0, and was performed in real-time; HWRF-EnKF system was conducted without real-time computing resources.

PSU HWRF-EnKF and ARW-EnKF real-time systems for Joaquin (2015): homogeneous comparison of mean absolute errors with operational products



Abs Error of position (n mi) for al112015-OFCLAVNOGFDLHWRFHPSUAPSU

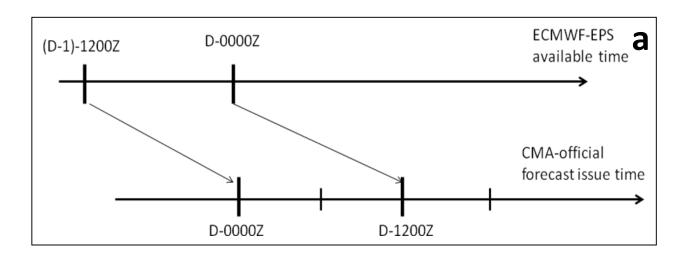
OBEST Observation-Based Ensemble Sub-setting Technique for Tropical Cyclone Track Prediction

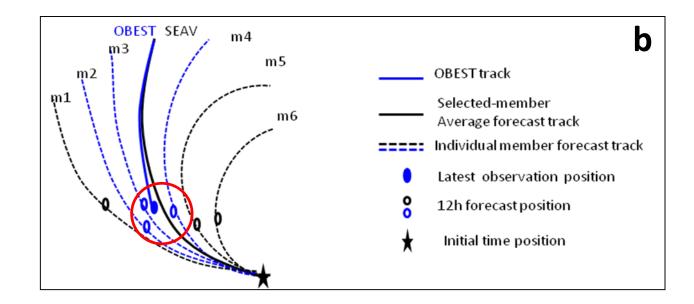
Lin Dong

Chinese National Meteorological Center

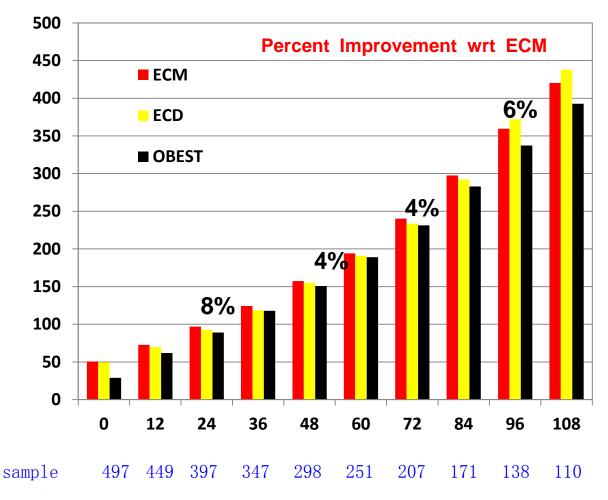
Fuqing Zhang Penn State University

2 Data and Methods



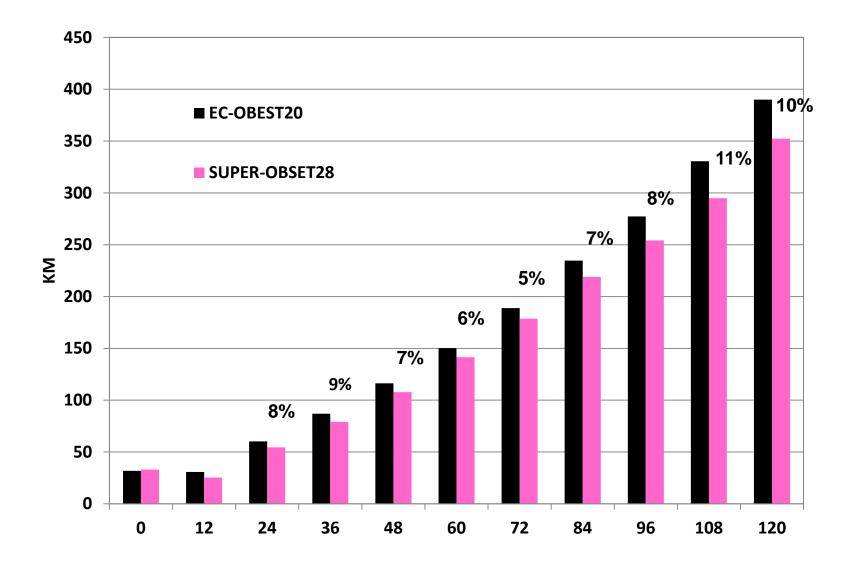


2012-2013 EC Track Errors by CMA operation

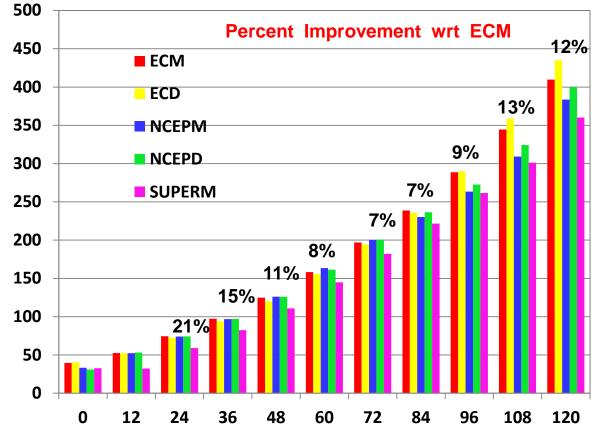


- 1、 Consider the time lag
- 2、 calculate error based on CMA operational track

SUPER_OBSEST vs EC_OBEST



2012-2013 EC and NCEP Track Errors



homogeneous