

## HWT-DTC Collaboration (Summary from 25 Sep 2009 meeting)

### **Short Term (2010) Goals**

#### ***Summary of proposed goals for collaboration:***

Continue with radar assimilation investigation

Move back toward understanding what is going on within the models

Look into helping bring more cutting edge visualization techniques into HWT

#### ***Models:***

**CAPS** - 4km 20 member + 1 km - if they get CSTAR funding – no EnKF at convective scale for initialization – storm scale perturbations and soil perturbations – some with different physics – expanded domain

**MMM** – 3km – RUC 13km DFI assimilation – extended domains – would like to do DART if more resources; maybe limited use this year - paired with HRRR to do sensitivity testing – 48 hours – validating diurnal cycle

**NSSL** –4 km CONUS – year round system – NAM cold start

**HRRR** – 3km CONUS – DFI assimilation – 3 km second pass DFI possibly – possibly radial velocity assimilation

**EMC** – 4km – CONUS run – cold start off NAM

**AFWA** – anticipate this being contributed and see if it can be included

**Realtime Ensemble Verification** – if it can be done easily

#### ***Observations:***

Q2 QPE and Composite Reflectivity

Cosmic – spatial window

GOES-R – explore using GOES-R to validate cloud top

#### ***Action Items:***

Put together a remote conference to discuss band-width log-jam

Mine current data to see how much we can get out of data sets

Help put together displaced real-time demonstration available ready

Perform Retrospective runs

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## **Longer Term Goals**

### ***A potential 3 layer participation scenario:***

Model community – sets configurations based on previous years results and science questions that community wants to address

Spring Experiment – realtime evaluation

Retrospective mode – testing and evaluation which feeds back to modeling community

### ***DTC Specific Goals***

Have cutting edge visualization techniques coming into HWT

Work with research community to determine optimal configurations

Fill in with the configurations that are not represented within the community

For Ensembles - Limit parameter space and do experiments

- External model

- Model core

- Perturbation methods

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### **Other potential roles for DTC**

Model Analysis Package Clearinghouse

Demonstration Project Data Clearinghouse