BREAKOUT SESSION 3   GROUP A

BREAKOUT TOPIC 1:   What do you see as impediments to using the same CAM framework for all hi-res applications and timescales?

1. Compatibility of physics between CAM and global model (possible advantage for development of model physics?)

2. Challenge of optimizing ensemble spread for different forecast lengths

3. Comparability of SAR CAM vs nested CAM output, cycling capability, data assimilation

BREAKOUT TOPIC 2:   How are users currently using the HREF and experimental CAM ensemble guidance?   What are your impressions?

1. General happiness :) with results; very satisfied with resulting spread

2. Need to improve the reliability in the timing of model guidance availability to contribute to NWS forecast products

3. Viewed through stand-alone webpages instead of AWIPS   4. Success is dependent on availability of model climatology

BREAKOUT SESSION 3   GROUP B

BREAKOUT TOPIC 1:   What do you see as impediments to using the same CAM framework for all hi-res applications and timescales?

1. Single core removes flexibility of multi-core ensemble for different applications

2. Concerns for lack of spread, diversity

3. It may take many years to match HREF performance with a single core (evidence-based decisions)

4. Most feedback for the HREF multi-core ensemble is from SPC for severe weather applications

BREAKOUT TOPIC 2:   How are users currently using the HREF and experimental CAM ensemble guidance?   What are your impressions?

1. Severe weather applications (e.g. reflectivity, updraft helicity), generating probabilities for outlooks

2. NBM uses the HREF QPF

3. Limited use in WR - need CAM ensemble that covers fields of interest in western US

BREAKOUT SESSION 3   GROUP C

BREAKOUT TOPIC 1:   What do you see as impediments to using the same CAM framework for all hi-res applications and timescales?

1. Can a single system handle varying timescales and hazards (inc. tropical, severe, winter, etc.)

2. How much degradation in skill is tolerable for an upgrade that has broader benefits?

3. Preparing the weather enterprise (including private sector) for this paradigm shift - training in use of ensembles, advertising the change well in advance.

BREAKOUT TOPIC 2:   How are users currently using the HREF and experimental CAM ensemble guidance?   What are your impressions?

1. Heavily utilized by SPC and other severe weather forecasters.

2. Used for QPF, and maybe increasingly for winter weather hazards.

3. Individual members comprising the HREF are utilized heavily - in addition to the aggregated ensemble mean and probability fields generated by HREF postprocessing

BREAKOUT SESSION 3   GROUP D

BREAKOUT TOPIC 1:   What do you see as impediments to using the same CAM framework for all hi-res applications and timescales?

1. There is not enough spread within a single-core, single-physics ensemble.
2. Can the metrics of a single model be good enough for all applications, or will we have to run the single model with different model/DA configurations?
3. Using CAMs for environmental assessments is not optimal (e.g., displays, resources) and is not how they were designed.

BREAKOUT TOPIC 2:   How are users currently using the HREF and experimental CAM ensemble guidance?   What are your impressions?

1. WPC forecasters like the HREF. It is used extensively with QPF, and provides good probabilistic forecasts.
2. The forecast offices utilize HREF, particularly for convective applications. It could be useful for winter weather forecasting as well.
3. SPC uses the HREF quite extensively for convective, severe, and fire weather applications. They have a very slick website!