

## **Warn-on-Forecast Week at the National Weather Center**

Agenda for Tuesday/Wednesday/Thursday  
Revised January 28, 2013

### **Tuesday 5 February**

#### **Technical Workshop on Numerical Guidance to Support Warn-on-Forecast**

08:00 – Coffee

08:20 – Welcome: Ken Howard and Bill Lapenta

#### *Session 1: Warn-on-Forecast: Vision and Customer Expectations*

*Moderator: Ken Howard*

08:30 – WoF Vision, State of Science and Technical Requirements (Wicker et al)

09:20 – SPC Expectations for WoF and Benefits/Value to Ops (Schneider, Weiss)

09:40 – WFO Expectations for WoF and Benefits/Value to Ops (Andra)

10:00 – Discussion period

10:30 – 20 minute coffee break

#### *Session 2: Warn-on-Forecast: EMC Needs and Expectations*

*Moderator: Steve Goodman*

10:50 – EMC Needs and Expectations (Lapenta et al)

11:30 – GSD Perspective of WoF and Benefit/Value (Benjamin et al)

12:00 – Lunch till 1:15 at NWC or in town

#### *Session 3: Warn-on-Forecast: CAPS Experiences and Challenges*

*Moderator: Lou Wicker*

13:15 – CAPS Technical experiences: (Xue, Brewster)

– RT CAPS ensemble

– DFW area real time EnKF/high-res forecast

14:00 – Discussion period

Session 4: Warn-on-Forecast: New observing systems  
*Moderator: Bill Lapenta*

14:30 – MRMS Vision and Plans (Howard)

14:50 – Radar requirements (Stensrud)

15:10 – GOES-R capabilities (Goodman)

15:30 – Break

Session 5: Discussion: WoF Vision and Requirements  
*Moderators: Steve Koch and Bill Lapenta*

16:00 - Discussion

Possible Topics

- a) Current barriers to WoF implementation
- b) Computational and support requirements
- c) Approaches for initial WoF testing? (regional/nested/adaptive)
- d) Collaborations that could enhance R2O

17:15 – Meeting ends, adjourn

17:30 – Ice Breaker in Atrium

## **Wednesday 6 February**

### ***Warn-on-Forecast and High-Impact Weather Workshop***

08:15 – Coffee

08:25 – Welcome and Introductions (Lou Wicker, Steve Goodman)

#### **Session 1: Warn-on-Forecast Overview and Status Reports**

*Moderator: Steve Koch*

08:30 – Warn-on-Forecast Project Progress (L. Wicker)

09:00 – CAPS Warn on Forecast efforts (M. Xue)

09:30 – GSD WoF report (D. Dowell)

10:00 – EMC (B. Lapenta)

10:30 – Break

10:45 – Latest 3DVAR results (J. Gao)

11:00 – WoF Testing in the HWT (T. Smith)

11:15 – Development of an EnKF/hybrid data assimilation system for mesoscale application with the Rapid Refresh (Hu/Dowell)

11:30 – GSI-EnKF hybrid DA assimilation using airborne radar in HWRP (X. Wang)

11:45 – Latest results from assimilation of satellite data (T. Jones)

12:00 – NSSL mesoscale ensemble update (D. Wheatley)

12:15 – Lunch

#### **Session 2: GOES-R Status and Applications**

*Moderator: Chris Velden*

13:30 – GOES-R Overview and NWP Opportunities (S. Goodman)

13:45 – ABI WRF-Chem simulations and 1-min Super Rapid Scan Imagery (T. Schmit)

14:00 – Simulated ABI Data and Convective Initiation (Lindsey/Grasso)

14:45 – Cloudy Radiances (J. Otkin)

14:30 – High Impact Weather - the need for radiance assimilation over land (J. Li)

14:45 – Hyperspectral Soundings and the Pre-storm Environment (Weygandt/Lin)

15:00 – Utility of GOES-R Geostationary Lightning Mapper (GLM) Using Hybrid Variational-Ensemble Data Assimilation in Regional Applications (M. Zupansky)

15:15 – Break

15:45 – Lightning Threat Forecasts (E. McCaul)

16:00 – Lightning Data Assimilation (A. Fierro)

16:15 – Lightning Data Assimilation (B. Allen)

16:30 – **Discussion:**

Satellite and radar data DA applications for convective forecasts

17:00 – Adjourn for day

## **Thursday Morning 7 February**

### *Warn-on-Forecast and High-Impact Weather Workshop (Continued)*

08:30 – Coffee

09:00 – Weather Threat Continuum Forecasting (L. Rothfusz)

09:30 – **Panel Discussion on WoF and Decision Support Services**

Moderator: Kevin Kelleher

(D. Andra, R. Schneider, S. Weiss, L. Rothfusz, T. Smith, B. Bunting)

*Focus: How can WoF help NWS as it transitions to a decision support paradigm?*

10:30 – Break

11:00 – Wrap-up Discussion (Wicker, Goodman)

12:00 – End of Warn-on-Forecast and High-Impact Weather Workshop

12:00 – 1:30 Lunch

## **Thursday Afternoon 7 Feb**

### *Technical Workshop on Numerical Guidance to Support Warn-on-Forecast Revisited*

13:30 – **Discussion** (D. Stensrud)

Discussion:

How can the workshop lead to changes or new perspectives with respect to needs, opportunities, or plans for development of an initial WoF capability.

15:00 – Adjourn