



NWS Hydrologic Forecast

Verification Team:

19th Meeting

12/03/2009 – 1.45 pm EST



19th Meeting, 12/03/2009

Outline

- FY10 verification activities in OHD:
 - AHPS verification work plan
 - Science and software tasks
 - RFC survey on real-time verification
- Initial results for QPF case study at MBRFC and NCRFC
 - Presentation from MB- and NC-RFCs
- Proposed agenda for next meeting



FY10 verification activities in OHD

- Initial AHPS FY10 verification work plan (developed by Verification Planning Team) includes
 - NWS Hydrologic Forecast Verification team work
 - HOSIP verification project: Improve ensemble forecast verification
 - HOSIP hindcast project: Establish research environment for Experimental Ensemble Forecast System (in CHPS)
- Science and software tasks from verification project
 - slides on project plan (from HOSIP Gate 2 meeting)



Few slides from HOSIP Research Project,
Gate 2 meeting on 12/02/09

**“Improve Ensemble Forecast
Verification.” ID # P-2009-014**

James Brown, HSMB/HEP group

James.D.Brown@noaa.gov



Project tasks

This project has three tasks:

Task 1: Improve diagnostic verification

Task 2: Improve real-time verification

Task 3: Improve the EVS software

Two-year project

- **FY10 deliverables/resources/roles identified**
- **FY11 plans will be defined in FY10 Q3/Q4**



Task 1: Deliverables

- D1: Baseline performance:** draft manuscript on quality of existing ensembles (FY10 Q4)
- D2: Sampling uncertainty:** Algorithm Description Document for confidence interval proto. (FY10 Q4)
- D3: Timing error:** draft manuscript on XWT prototype (FY10 Q4)



Task 2: Deliverable

- D4: Report documenting prototype query engine (informed by RFC survey) and prototype displays: problems identified and future work; examples of prototype displays; and guidance on how to apply EVS in real-time (FY10 Q4)**
- Used in revised report (FY11 Q4) on standardized verification strategies**



Task 3: Deliverables

- D5: Updated EVS:** enhanced version (3.0) available for public download from HEP EVS web page (FY10 Q4)
- D6: Updated EVS-CHPS Model Adapter:** version 1.0 will be available for RFC download from the LAD with documentation (FY10 Q2)



EVS Version 2.0

- **EVS Version 2.0 completed**
- **Draft web page completed, linked from OHD HEP web pages**
- **OHD management are working on IT Security checklist and disclaimer**
- **Will be posted by end of December**
- **If needed before, please request**



RFC survey for real-time verification

- Questions which analog queries and summary verification displays would be the most useful to forecasters and users
- Draft developed by HEP
- Finalized survey sent to Verification Team by mid-December
- Feedback from each RFC by end of January



QPF case study at MB- and NC-RFCs

- Initial results presented by Julie Meyer and Holly Reckel to continue discussion on study implementation and results interpretation
 - see MB-NC-RFC_QPF_study_19th-meeting_12-03-2009.ppt



Next meeting

- 20th meeting: February
 - Feedback from real-time verification survey
 - Discussion on QPF case study and link to HMOS results
 - Discussion on user analysis of standard verification products

Thank you!

Questions?

