



NWS Hydrology Forecast Verification Team: 4th Meeting

03/25/2008 – 1:30 pm EST



Outline

- New Verification Listserver
- IVP Exercise
- CBRFC Case Study
- Team Agenda
- Case Studies: Schedule
- Next Meetings
- Next Verification Workshop



New Verification Listserver

- Verification Listserver: [verif-hydro](#)
- Aims to facilitate communication on verification issues for OHD, RFCs, and COMET
- Administrators: Julie Demargne and James Brown
- To participate: each person needs to subscribe to the list
- Potential members: NWS and WR verification teams, DOHs, HEP group, and Matt Kelsch at COMET.
- Topics and list moderators:
 - IVP and database issues: Hank H., Julie Meyer, and Brenda Alcorn
 - EVS: James B., Julie D., Bill Lawrence, and Mike DeWeese
 - Verification science: Kevin W., Yuqiong L., James B. and Julie D.
 - Workshops and training: Julie D. and Kevin W.



IVP: Installation

- Version:
 - Ob8.2?
 - Ob8.2.1 from maintenance release?
- Any issues at the RFCs?



IVP: Exercise

- Data:
 - Database used for IVP exercises in August 07
 - Four sets of stage forecasts for Watts basin for 5 years
- Install database at the RFCs on a machine (1 Gb)
- Setup the user environment to run off the new db
- 2 documents to generate and interpret IVP graphics:
 - Word document with IVP commands and questions on IVP plots
 - Power point document with plots
- By 04/22/08, answer all the questions on IVP plots



IVP: Exercise

- Overview of the installation steps:
 1. Identify a machine on which to install a new exercise postgres database prior to installation. It takes up about 1 Gb of disk space.
 2. Export some postgres environment variables and apps-defaults tokens to point to this machine.
 3. Pick the directory where the exercise tar package needs to go. Untar the exercise tar package in that directory. This creates a directory structure identical to that underneath of /rfc_arc/verify.
 4. Run a script to install the exercise database (fixed name of db)
 5. Change some apps-defaults tokens so that the verification info is found within the exercise directory structure created in step 2.



CBRFC Verification Case Study



Team Agenda: Updated

- 11/29/07: Kick-off meeting
- 12/18/07-01/17/08: Archiving survey and selection of verification case studies
- 03/25/08: CBRFC case study
- 04/07/08: Exercise with IVP ob8.2; RFC case study?
- April-May 08: COMET verification training; exercise with EVS prototype
- May-Sep. 08: verification case studies presented by the RFCs
- Sep. 08: Interim report on RFC verification case studies
- Nov. or Dec. 08: 2nd RFC Verification Workshop
- Jan. 09: Final team report



Case Studies

- ABRFC: HMOS ensemble hindcasts w/ EVS
- APRFC: impact of calibration of upstream Canadian basins
- CBRFC: error sources (QPF, MODs,...)
- CNRFC: QPF impact
- LMRFC: hurricane Katrina (coastal points w/ storm surge)
- MARFC: EPP2/ESP short-term ensemble forecasts w/ EVS
- MBRFC: WFO-TFX seasonal fcst (impact of Temp.)
- NCRFC: joint w/ MBRFC (w/ IVP?)
- NERFC: QPF quality (HPC/NDFD/RFC)
- NWRFC: error source (QPF type, MODs); areal/point
- OHRFC: QPF impact (HPC/RFC)
- SERFC: quality of forecast crest, w/ flood categories
- WGRFC: VAR/SSHP/DHMS test basins



Case Studies: Schedule

- March 08: CBRFC
- April 08: WGRFC
- May 08: CNRFC
- June 08: OHRFC MARFC ABRFC
- July 08: NERFC? NCRFC? NWRFC?
- August 08: MBRFC? SERFC?
- September 08: LMRFC APRFC



Next meetings

- **5th meeting** on 04/22/08 at 1 pm EDT:
 - Review results from IVP exercise
 - WGRFC Case Study
- **6th meeting** on 05/05/08 at 1:30 pm EDT:
 - Overview of new EVS prototype
 - Present EVS exercise



Next Verification Workshop

- Potential Dates in Fall 2008:
 - Nov. 18-20
 - Dec. 9-11
- Location: TBD
- Suggestions or concerns?





Thank you!

