

Hydrologic Ensemble Forecasting Service (HEFS)

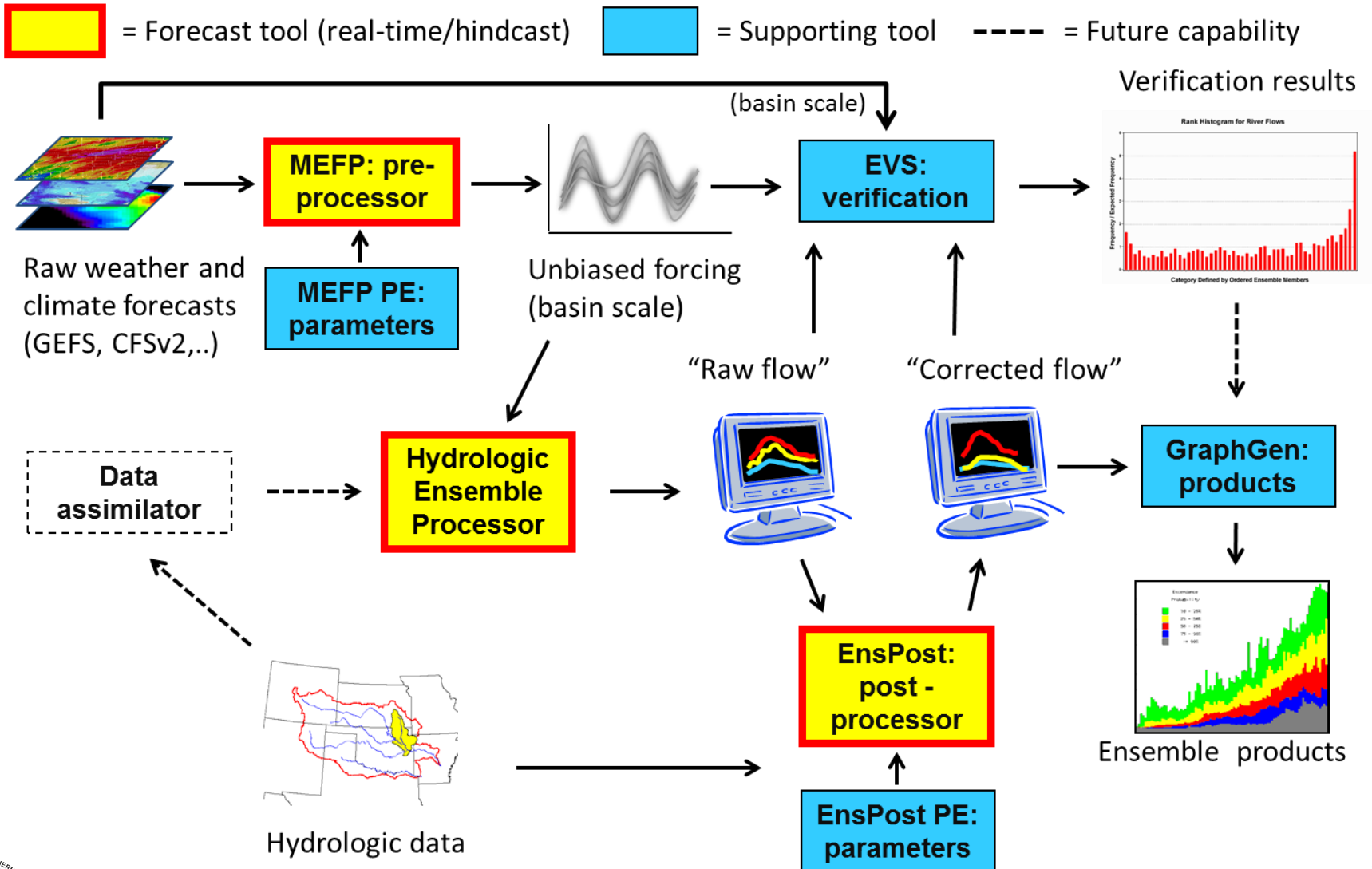
Seminar G HEFS Next Steps

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HEFS Components



Objective

- Discuss proposed schedule and plans over the next few months**

Rollout – Strategy

- ❑ **Strategy for rollout, similar to the initial implementation**
 - o RFCs implement HEFS and expand coverage at a slow/steady pace; there are no external due dates
 - o Understand that flooding ops take precedence over HEFS
 - o More training – HEFS verification and hindcasting
 - o RFCs learn HEFS hindcasting and verification & eventually partner with OHD to validate HEFS and improve implementation at their RFC

Rollout – Proposed Schedule

□ When you return home

- o Attend routine HEFS meetings & older HEFS RFCs become buddies
 - These meetings will become more regular and meaningful in the coming weeks, when you start implementing HEFS
- o Ensure your HEFS host server (recommended RP3) is in working order with latest CHPS configuration and live data feed (recommend no synching from RP1/2)
- o Acquire, install, and configure HEFS 1.1.1

Rollout – Proposed Schedule, cont'd

❑ Through October 2014

- o Implement HEFS for at least two locations
 - Parameter estimation, configuration, and data ingest/workflows
- o Run HEFS in real-time
 - Become familiar with and quality control HEFS output
- o Strategize how to integrate HEFS runs into your RFC operations

❑ October 21st, 2014: Download HEFS 1.2.1 and re-estimate MEFP parameters and EnsPost parameters, if switching to 6hr time-steps¹

Rollout – Proposed Schedule, cont'd

- ❑ **November – December 2014:** Expand HEFS coverage to at least a forecast group
- ❑ **Mid-late January 2015:** Off-site training on HEFS hindcasting and verification
- ❑ **February 2015 and beyond:** Expand coverage, focusing initially on locations with minimal or no regulations.
- ❑ **March 2015:**
 - o CHPS build; HEFS becomes part of CHPS baseline
 - o RFCs transition HEFS configurations to their CHPS operations

Rollout

❑ Other to dos

- o Work with NCEP to provide GEFS and CFS grid data more reliably than through the current ftp, which is not extremely reliable
 - Having the data sent over (reliable) SBN will happen late CY14, at the earliest
- o Work with NCEP to develop a process to provide regular weather model updates with reforecasts
- o Reforecasts (for calibration) need to be moved off HSD ftp
- o Need to develop schedule for announcing / posting new HEFS forecasts for public products
- o Need to develop methodology / criteria for validation at RFCs for providing HEFS as the source of existing AHPS and new HEFS products
- o Connect HEFS and National Water Center projects, such as RFC backup/archive includes HEFS requirements

HEFS Software and Documentation

❑ Where do I get HEFS?

HEFS builds are available at this URL as a tarball with a complete set of HEFS users manuals, configuration guides, and release/install notes

<http://165.92.28.30/release/HEFS/>

NWS RFC Field Support webpage has complete set of HEFS users manuals and configuration guides

http://www.nws.noaa.gov/om/water/RFC_support/

OHD CHPS and HEFS Documentation page has that *and* science reports, past workshop presentations, including these

<http://www.nws.noaa.gov/ohd/hrl/general/indexdoc.htm>

Support

- ❑ **Fogbugz: HSD and OHD**
- ❑ **HEFS Buddy RFCs**
 - o NERFC (Erick Boehmler) - OHRFC
 - o MARFC (Ned Pryor) - SERFC
 - o ABRFC (Eric Jones) - LMRFC and WGRFC
 - o CBRFC (John Lhotak) - MBRFC and NCRFC
 - o CNRFC (Brett Whitin) - NWRFC and APRFC
- ❑ **HEFS email list-server**

Questions and comments?

