

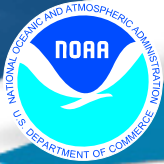
# National Weather Service

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## Results from pre-TIM for TO10 National DOH Workshop July 15, 2008

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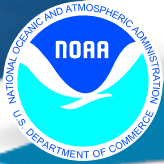
Ronla Henry  
NWS/OST/SEC



# Overview



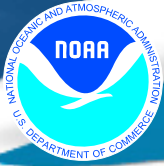
- **TIM Objectives**
- **Re-engineering Approach for Hydro**
- **Proposed Tasks**



# Hydro TIM Objectives



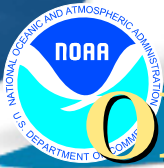
- Obtain Operational View of the Northwest River Forecast Center (NWRFC)
- Provide AWIPS II information to the RFC and provide a Q&A for the RFC attendees



# Re-engineering Approach



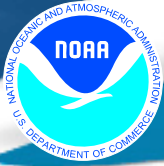
- **Proposed CAVE Hydrology perspective**
  - *HydroView*
  - *TimeSeries*
  - *RiverPro*
  - *RiverMonitor*
  - *Site-Specific Hydrologic Predictor*
  - *MPE*
- **NWSRFS untouched and operating as currently**



# Proposed Tasks

## OHD Common – Data Ingest & Storage

- All software and data components to be ported
- Key Components
  - *SBN Data Collection; SHEF & METAR Data Product Decoding*
  - *RPG Data Product Decoding; QPE & FFG Mosaicking for WFOs; Gage Precipitation Data Processing*
  - *IHFS PostgreSQL Database (structure not changed),*
  - *Precipitation Processing File System; Application Configuration Files*
- METAR-to-SHEF Translator
  - *Discussion about retiring*
  - *Maybe reconsiders due to multiple uses*

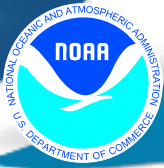


# Proposed Tasks

## OHD Common – WHFS



- All software and data components to be ported, except for DamCrest and SSHP Support (especially, communication portion)
- Key Components
  - *HydroBase; HydroView; SSHP; RiverMonitor; HydroGen*
  - *TimeSeries; RiverPro; Point Data Retrieval (Mapper)*
  - *AlertAlarm Support; Flood Archiver; IHFS Database Purge*
  - *WHFS File System Purge*
- Miscellaneous Utilities – No determination made

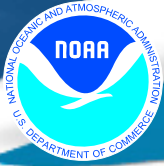


# Proposed Tasks

## OHD Common – PPS



- **Components are to be ported except for High-resolution Precipitation Estimator (HPE)**
- **Key Components:**
  - *Multi-sensor Precipitation Estimator (MPE) (GUI and batch components)*
    - *Additions of Daily QC and P3*
  - *MPE Configuration*
  - *PPS File System Purge.*
- **Miscellaneous Utilities – No determination made**
- **OB9 Update/new application planned for TO11**
  - *High-resolution Precipitation Nowcaster (HPN)*
  - *Significant upgrade to SSHP (addition of a data assimilation component)*



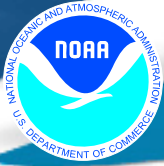
# Proposed Tasks

## RFC-Only – Data Ingest & Storage



- **To Be Ported**
  - *Climate Prediction Center (CPC) gridded outlooks*
  - *Logistical Measures/Forecast Service*
    - *Could be folded into IHFS Database management*
- **Not touched; work as is...**
  - *ofsde program*
  - *fs5files database*
- **Need to be ported**
  - *Historical Database which supports the Historical Data Browser (HDB)*
  - *Interactive Double Mass Analysis (IDMA)*



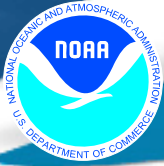


# Proposed Tasks

## RFC Only – NWSRFS Core



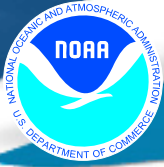
- **To Be Ported**
  - *Send\_RFC scripts*
- **Not touched; work as is...**
  - *Operational Forecast System (OFS)*
  - *Interactive Forecast Program (IFP)*
  - *NWSRFS Utilities*



# Proposed Tasks RFC Only – Ens



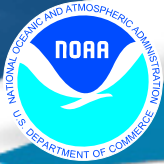
- **Addressed in T011**
  - *ens\_pre program for file format dependency*
- **Not touched; work as is...**
  - *espadp program*
  - *As well as rest of the Ens*



# Proposed Tasks RFC Only – FFG



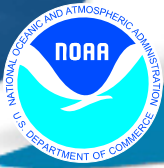
- **Not touched; work as is...**
  - *FFG Programs*



# Proposed Tasks RFC-Only – “X Programs”



- **To Be Ported**
  - *XNAV (with except of fs5file dependency)*
    - *Needs additional discussion with Raytheon*
- **Not touched; work as is...**
  - *XSETS*
    - *communication mechanism needed*
- **Need to be ported**
  - *XDAT*
  - *HDB*

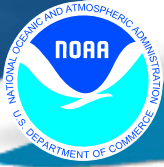


# Proposed Tasks

## RFC-Only – Calibration System



- **To Be Ported**
  - *IDMA*
    - *Based on its dependence on the Historical Database*
- **Not touched; work as is...**
  - *Interactive Calibration Program (ICP)*
  - *Data Pre-Processors*
  - *Mcp3*
  - *calibration utilities*
- **Need to be ported**
  - *HDB program*



# Proposed Tasks RFC-Only – RAX



- **To Be Ported**
  - ***RAX Database***
    - *Structure not changed*
  - ***SHEF Decoder Based***
    - *Dependence on the Historical Database*
- **Not touched; work as is...**
- **Need to be ported**