

# URGWOM

## Watershed Model(s)

### for Real-Time Operations

Executive Committee Meeting

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# Watershed Model(s)

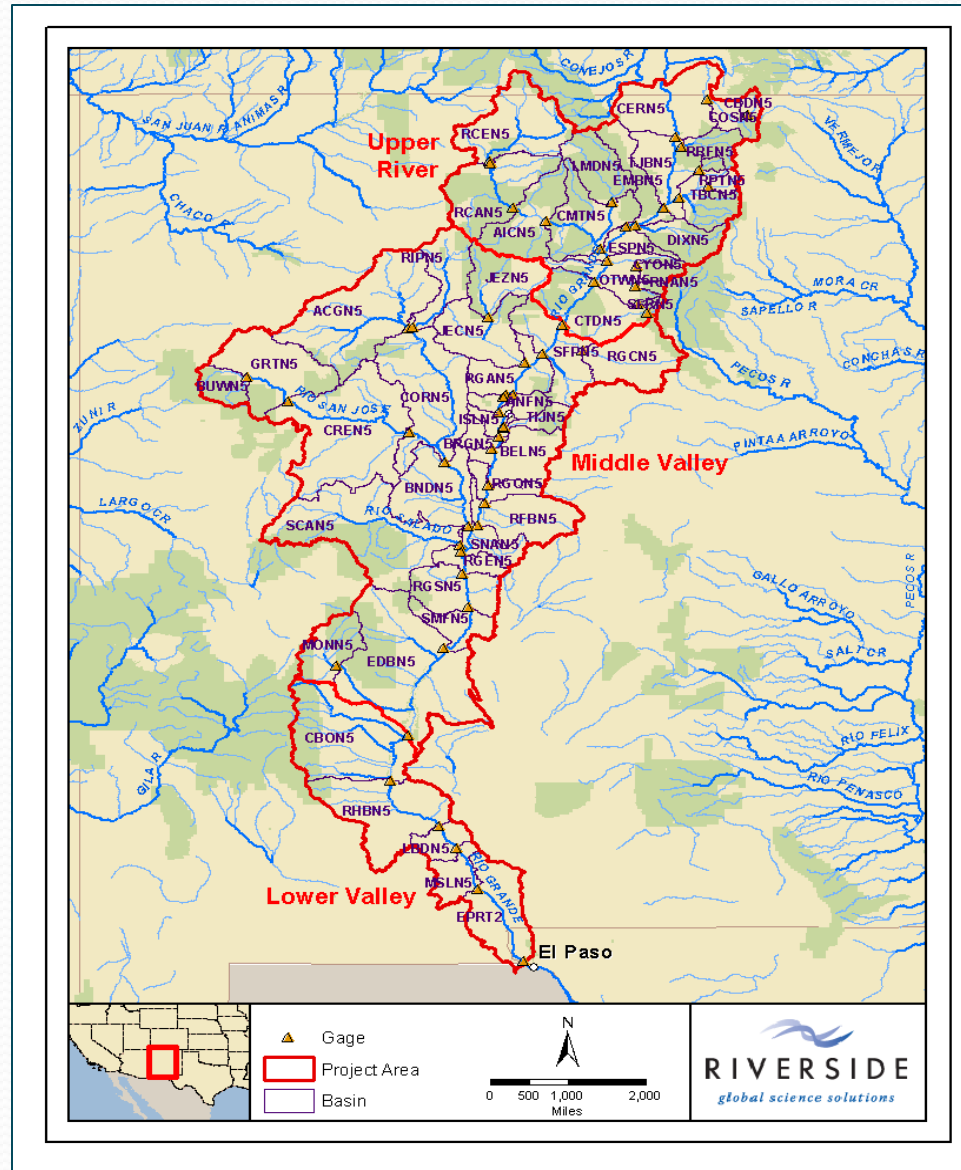
- Overview
- NWS Model
- HMS Model
- Summary
- Next Steps

# Overview

- Use watershed model(s) for Real-Time simulation and operations
- Short term modeling
  - 1 to 2 week simulation of operations

# NWS Model

- Developed by Riverside Technology, inc (RTI)
  - Previously developed Model for Colorado
  - Funded by URGWOM
- New Mexico/Colorado Border to El Paso, TX
- For use in NWS Community Hydrologic Prediction System (CHPS)
- Model includes snowmelt runoff (SNOW-17)
- Completed in early 2012
  - Required work by NWS to incorporate into CHPS
  - More work on file protocols – goal pixml, temporarily use .csv format
- NWS will provide March 1 forecast, and every 2 weeks thereafter until May (then monthly)



# HMS Model

- Hydrologic Modeling System (HMS)
  - Software Developed by Corp's Hydrologic Engineering Center (HEC)
- Backup model if results not available or questionable from NWS
- Model developed by RTI
  - Same subareas as NWS model
  - Differences in unit hydrograph parameters, etc
- 3 Phases of project
  - Phase 1 - Rainfall-runoff parameters developed and completed in July 2013
  - Phase 2 – Snowmelt-runoff parameters to be developed and completed by March 2014
  - Phase 3 – Incorporate into Corps Water Management System (CWMS) – future contract (FY14 or 15)

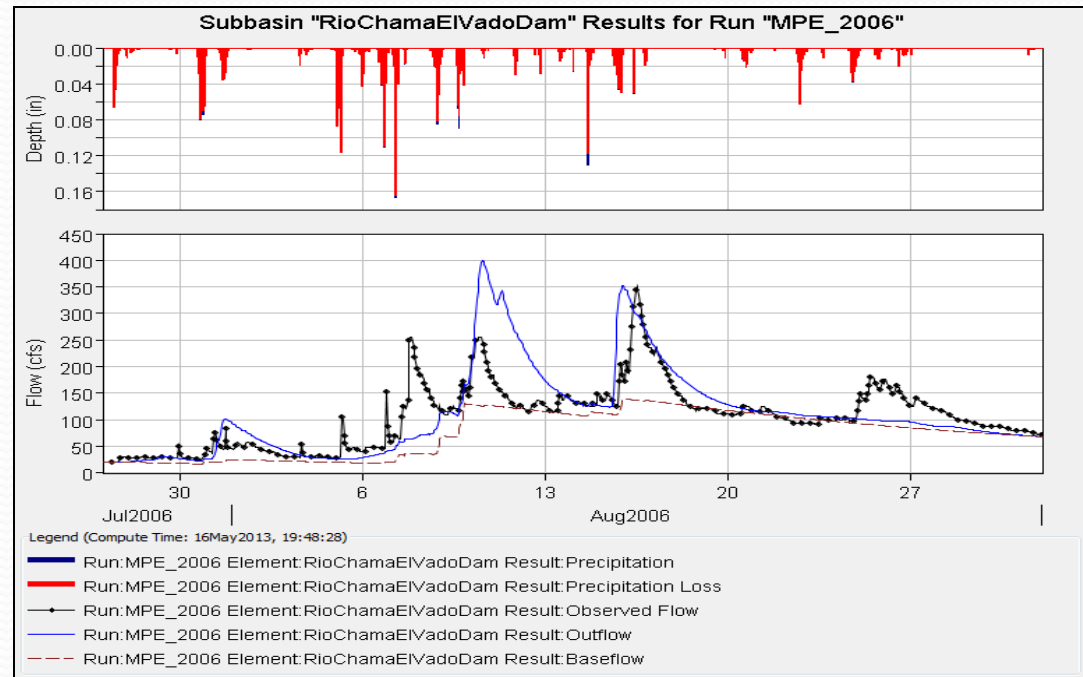
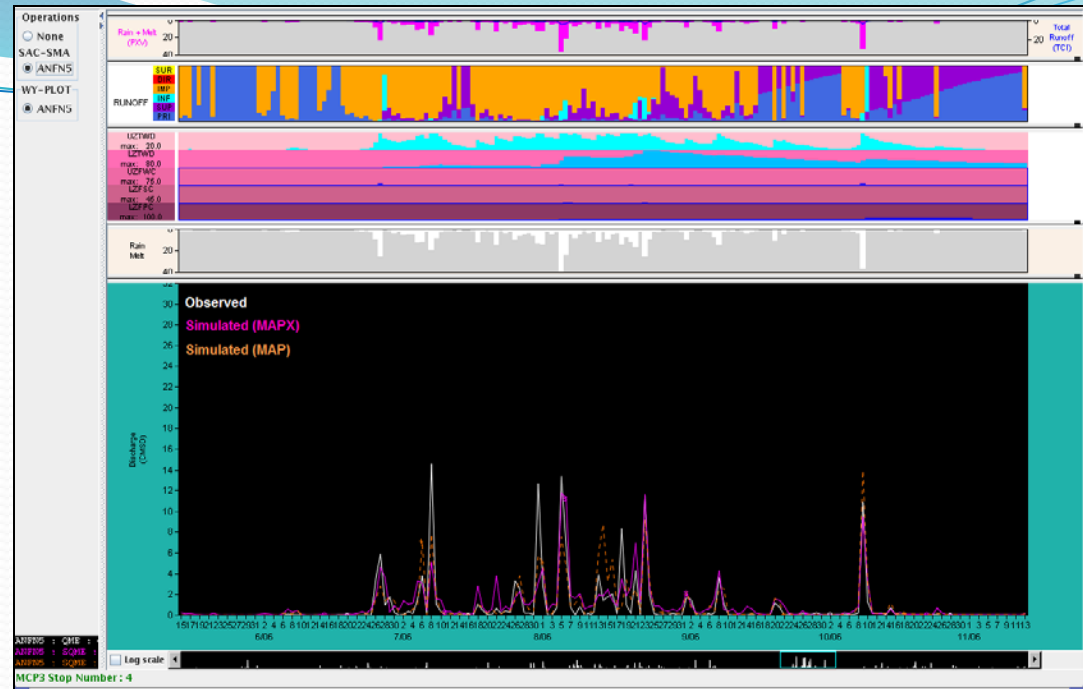
# Summary

- 2 watershed models available for Real-Time Ops

- NWS and HMS models

- Prefer results from NWS, but if not available or questionable, can run HMS

- Both can provide more real-time information for both rainfall and snowmelt-runoff events



# Next Steps

- Start using NWS results
- Finish Phase 3 of HMS Project



**Questions?**