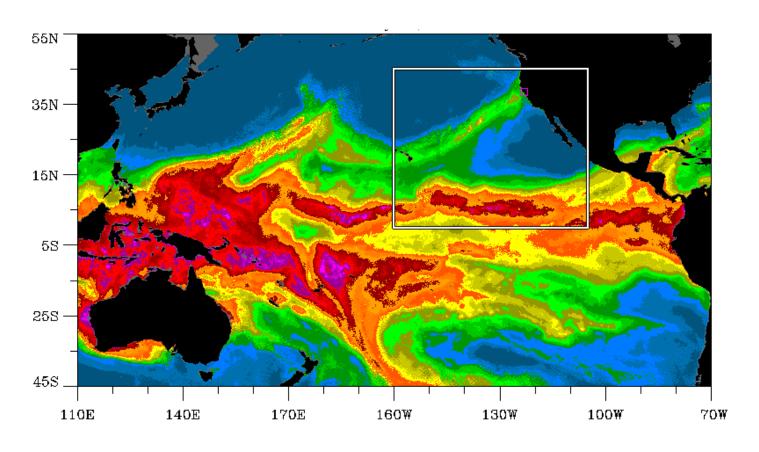
An Overview of NOAA's Hydrometeorology Testbed (HMT)

http://hmt.noaa.gov/

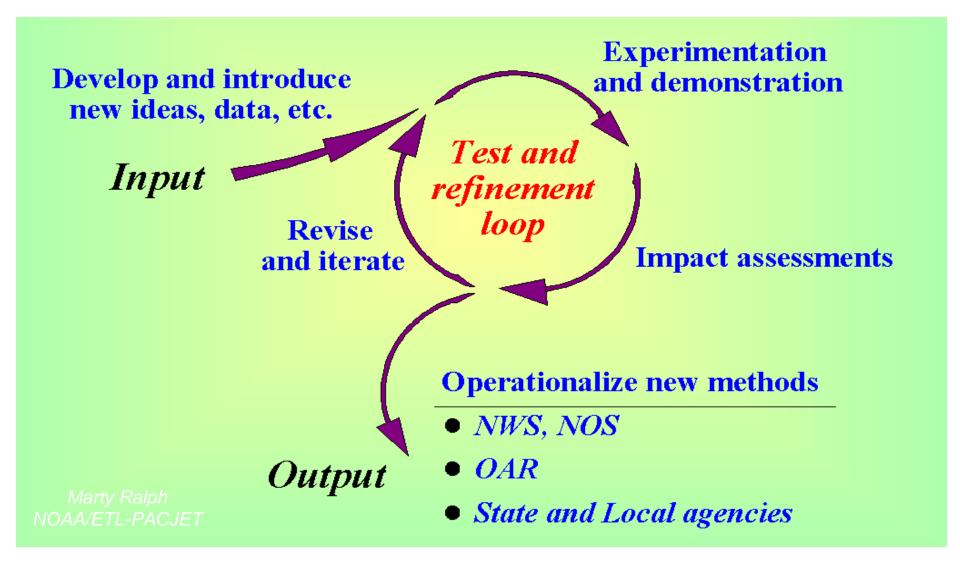


Contact: Tim Schneider, HMT Project Manager

HMT is about...

- >"Too much water"
 - ...But is intertwined with broader water resource management, climate & drought issues
- Conducting operationally relevant research

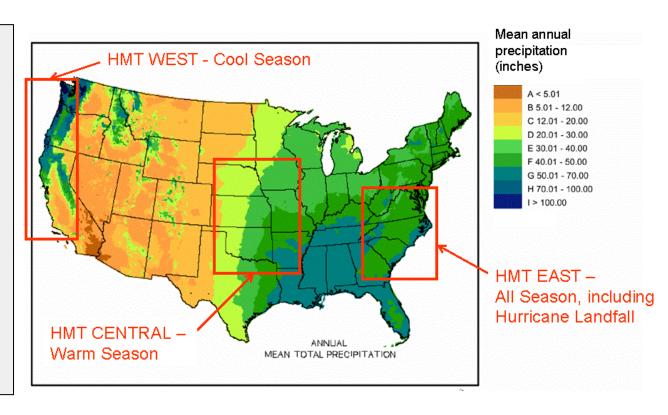
HMT is about...



HMT: A National Testbed Strategy with Regional Implementation

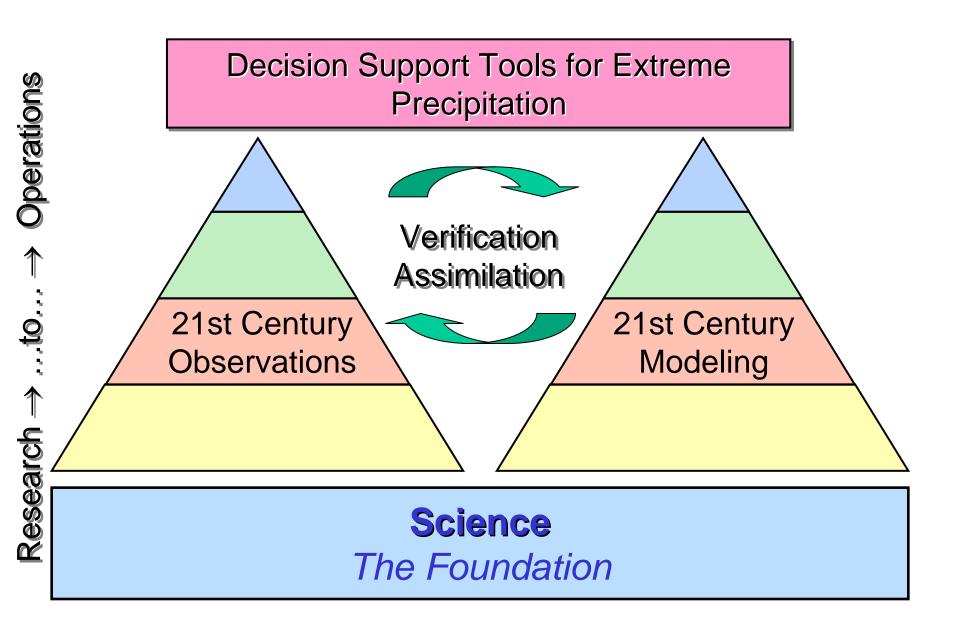
Major Activity Areas

- Quantitative Precipitation
 Estimation (QPE)
- Quantitative Precipitation Forecasts (QPF)
- Snow level and snow pack
- Hydrologic Applications & Surface Processes
- Verification & Decision
 Support Tools
- ➤ Enhancing & Accelerating Research to Operations
- Building partnerships

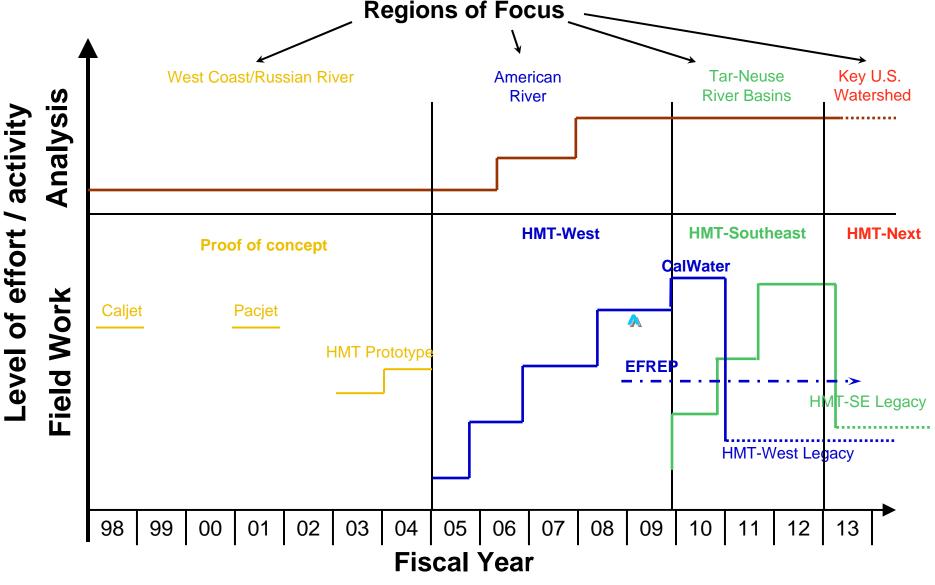


- Dabberdt et. al., 2005: Multifunctional Mesoscale Observing Networks, BAMS, pp. 961-982
- Ralph et. al., 2005: *Improving Short-Term (0–48 h) Cool-Season Quantitative Precipitation Forecasting Recommendations from a USWRP Workshop*, BAMS, pp. 1619-1632

Extreme Precipitation Information System



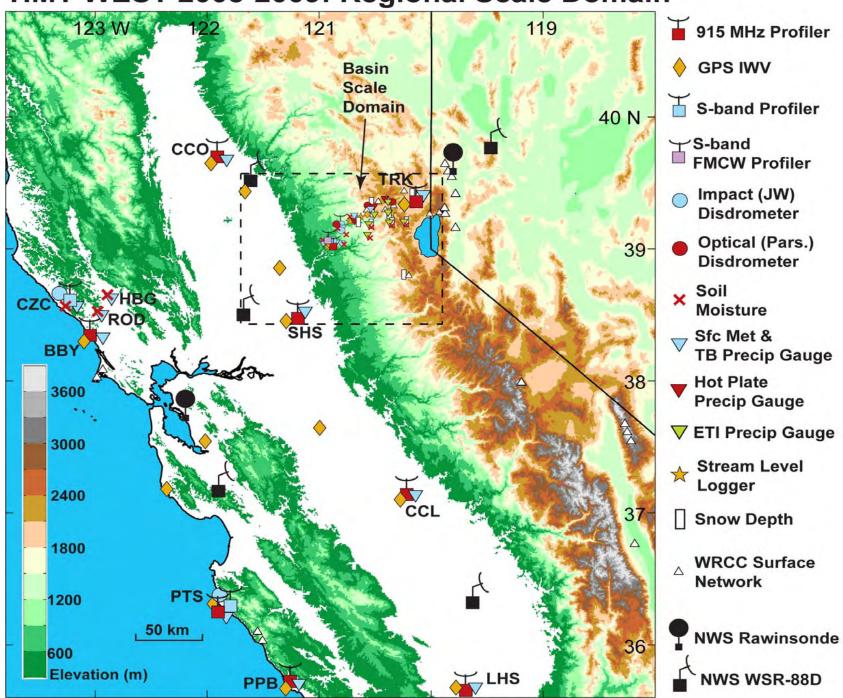
Hydrometeorology Testbed Timeline



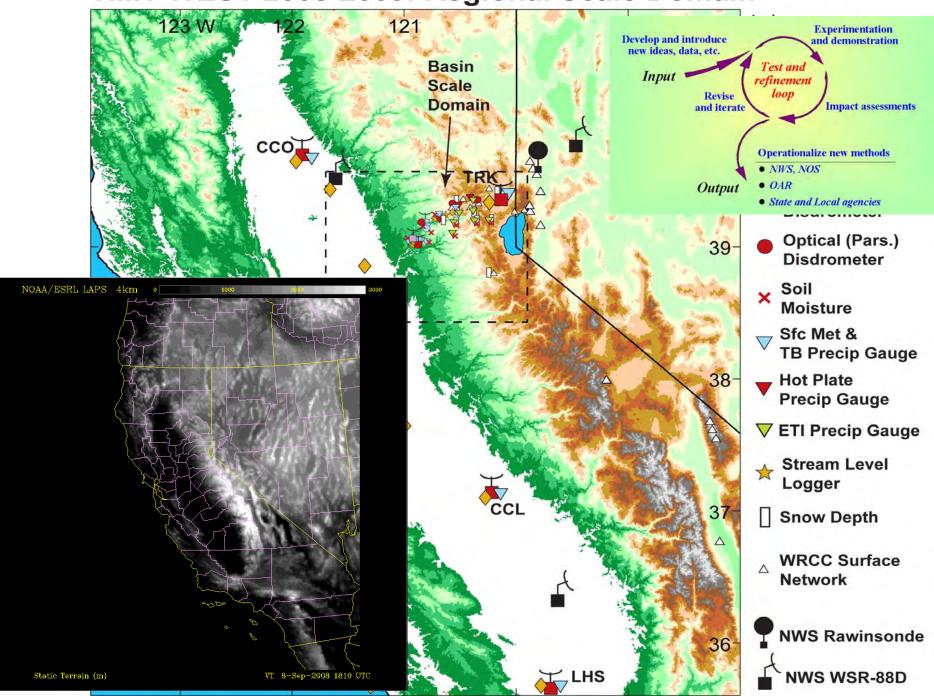
NOAA Hydrology Program (Water Resources Data Assimilation)

NOAA Science and Technology Infusion Program (Hydrometeorology Testbed)

HMT-WEST 2008-2009: Regional Scale Domain



HMT-WEST 2008-2009: Regional Scale Domain



Select Accomplishments

- > Research: Key Findings on ARs and Warm Rain Processes
- Sensor Development, including AROs, QPE, Snow Level
- Performance Measures for QPF and Snow level
- Tailored High-Resolution Models
- ➤ Four R2O Transition Projects Identified in 2008
- > EFREP: An HMT Legacy
- CalWater
- 33 Peer-Reviewed Publications Since 2000
 - Lead authors from 7 institutions/contributing authors from an additional 10
 - > Appeared in 12 different peer-reviewed journals

Thank You!

