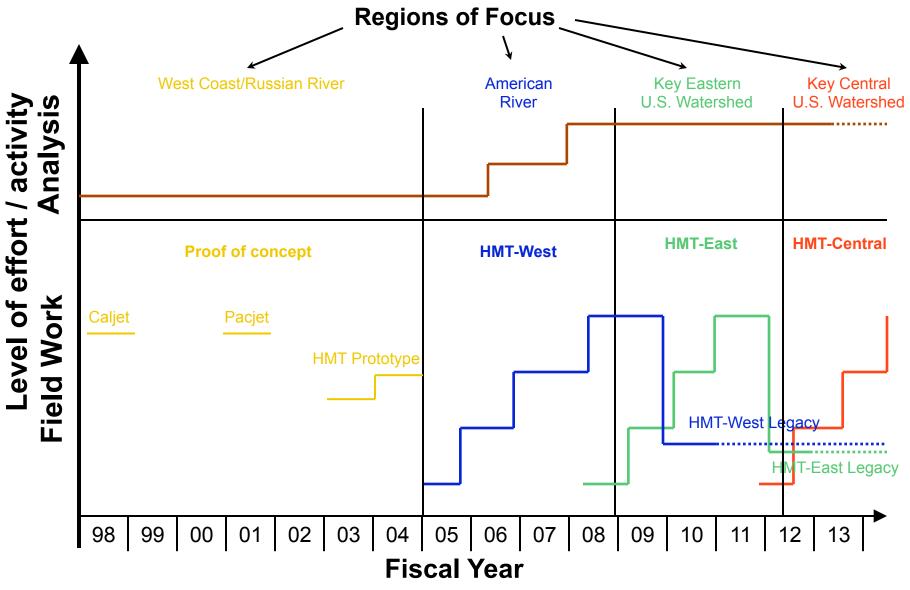


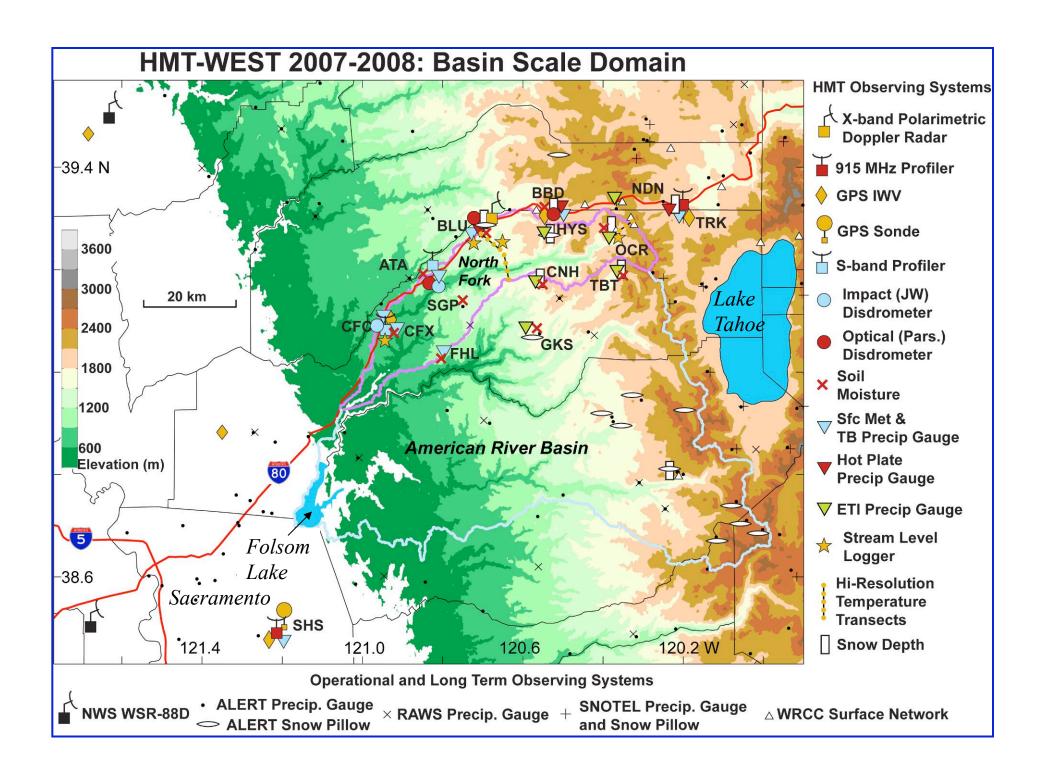


Hydrometeorology Testbed Timeline



NOAA Hydrology Program (Water Resources Data Assimilation)

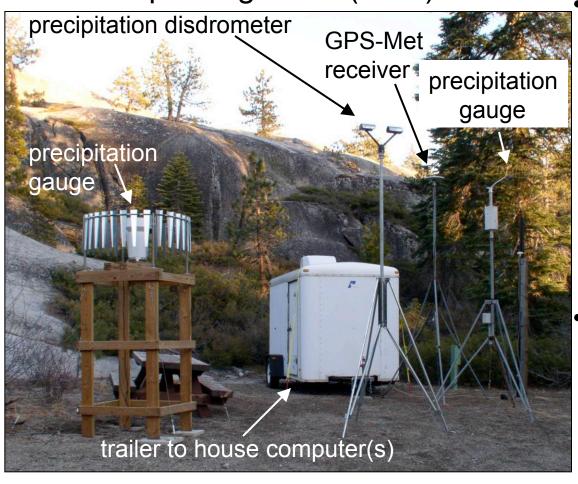
NOAA Science and Technology Infusion Program (Hydrometeorology Testbed)



Data Acquisition Computer Field Sites

Used at sites where at least one of the instruments requires a computer to acquire its data

Example: Big Bend (BBD)



- Types of instrumentation at these sites:
 - radars, GPS-Met
 receivers, precipitation
 disdrometers, surface
 meteorology, precipitation
 gauges, soil moisture,
 snow depth
- Modes of communication at these sites:
 - -telephone/modem
 - satellite internet

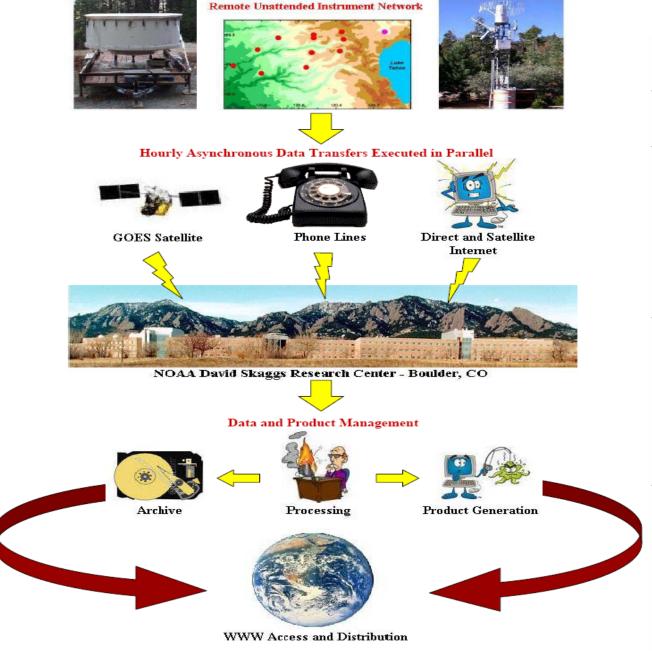


Future Investment

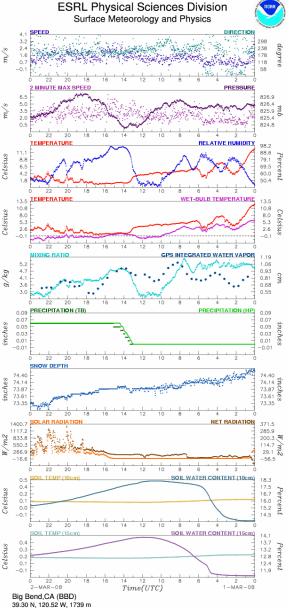
- Cooperative Venture Between DWR, NOAA ESRL and Scripps Institute of Oceanography
- Snow Level Radar, Total Column Water Vapor, Soil Moisture Instrumentation
- Ensemble Modeling, Forecast Tool
 Development



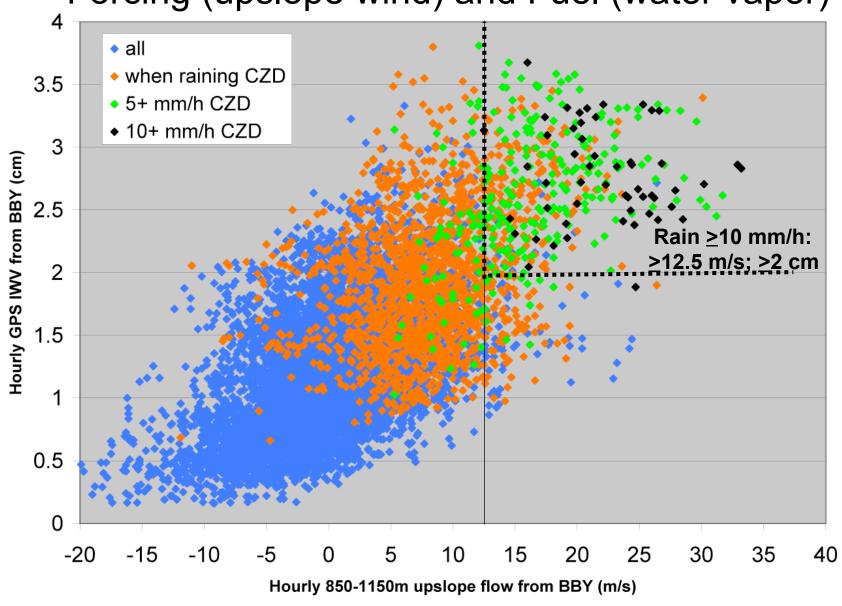
NOAA ESRL Near Real-Time Data and Product Distribution System



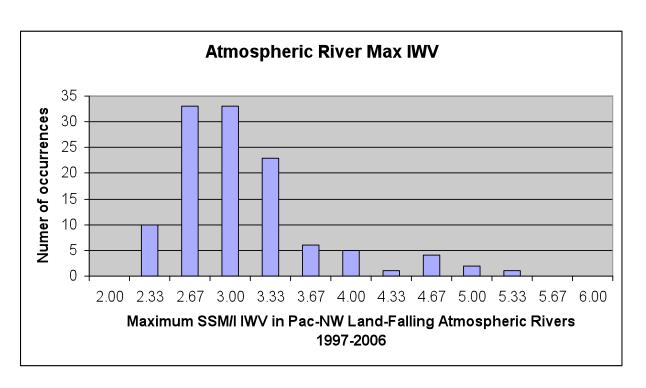
Sample Web product display for Big Bend



Rainfall Intensity Derived From Thresholds of Forcing (upslope wind) and Fuel (water vapor)



A Histogram of AR Strength



Conclusion:

The Fall 2006 event in the Pac-NW was associated with a landfalling atmospheric river. This is similar to the Ralph et al. (2006, GRL) result for the Russian River floods from 1997-2006.

The event was tied for 2nd in terms of maximum IWV out of 118 events.

Conclusions



- HMT-West has enabled opportunity for investment in equipment and decision support tools to aid emergency response in CA
- Further development needed to fully transition research ideas and outcomes into existing or planned operational environment

