Science Infusion

Jack Kain Hazardous Weather Forecasts & Warnings





NOAA Hazardous Weather Testbed

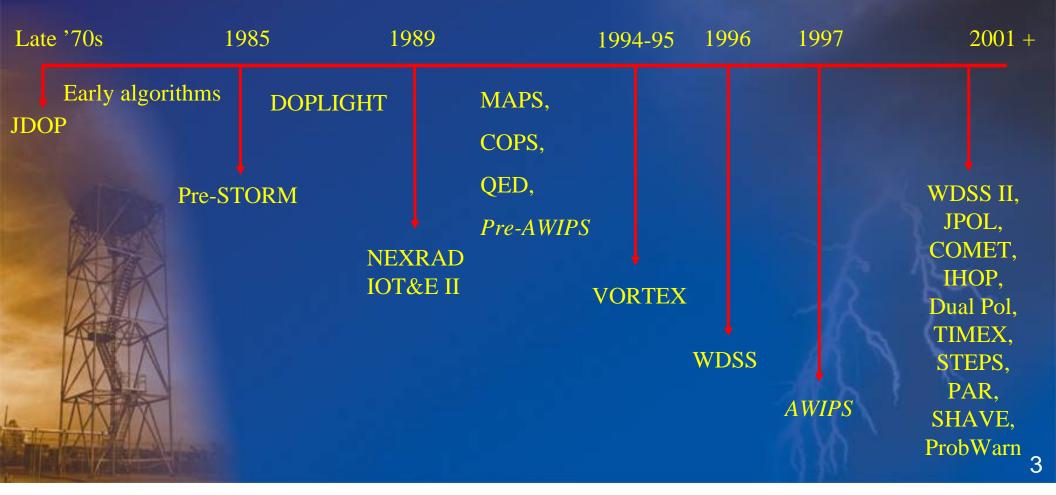


- A unique forum for collaboration between researchers and practitioners...

Two Main Program Areas...

Experimental Warning Program Experimental Forecast Program

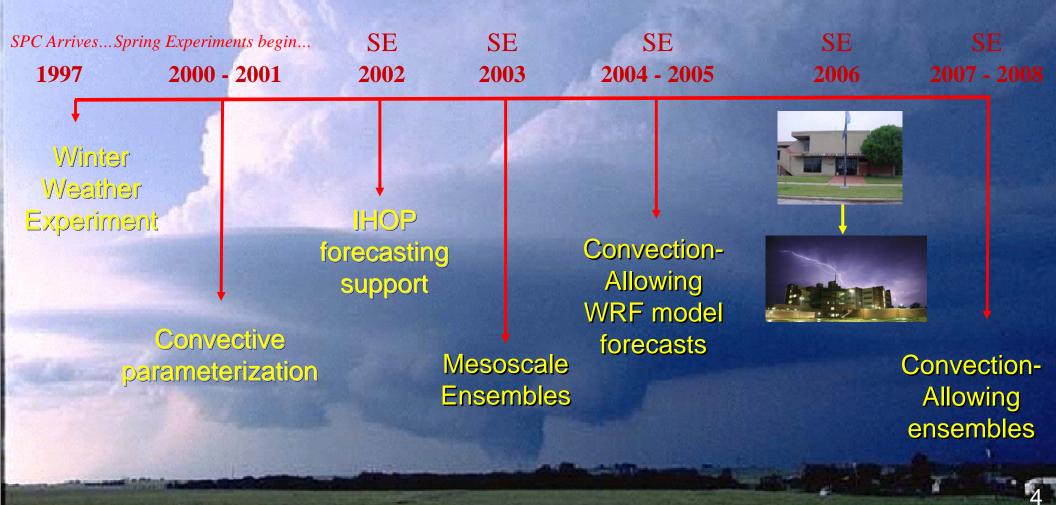
Establishing the "Culture of Collaboration" A glance at pioneering Collaborative Projects between NSSL and WFO-OUN...the incipient EWP branch of the HWT



Arrival of the SPC...

Spring Experiments....

The EFP branch of the HWT



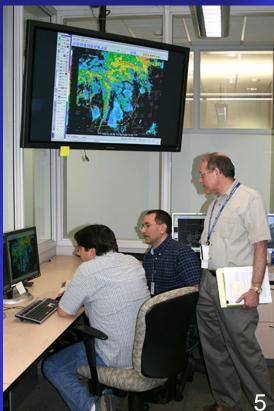
The annual Spring Experiment

 A 6-8 week experiment conducted each spring to evaluate emerging scientific concepts and tools in a simulated operational forecasting environment



...Scenes from SE2008...





HWT-EFP Spring Experiment 2007 Participating Institutions:

NOAA Agencies

- NWS/OUN

- NWS/RAP

- NWS/SLC

- NWS/SRH

- OAR/PSD

- OAR/NSSL (5)

- OAR/GSD (3)

- NCEP/AWC (2)
- NCEP/EMC (3)
- NCEP/HPC
- NCEP/SPC (9)
- NWS/BTV
- NWS/LWX
- NWS/MAF
- NWS/OCWWS

Universities

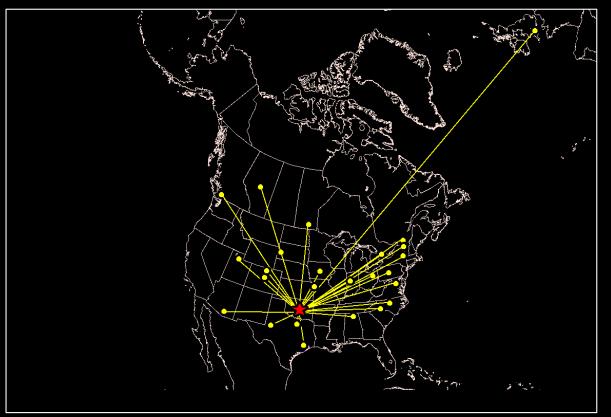
- Albany-SUNY (2)
- Arizona (2)
- Colorado State
- Iowa State
- North Carolina State (4)
- Oklahoma (2)
- Penn State
- Purdue (2)
- UNC-Charlotte
- York (Ontario)

Gov't Agencies

- NCAR (5)
- Environ. Canada (6)
- UK Met Office
- USRA (Huntsville)

Private Sector

- Merrill Lynch
- FirstEnergy



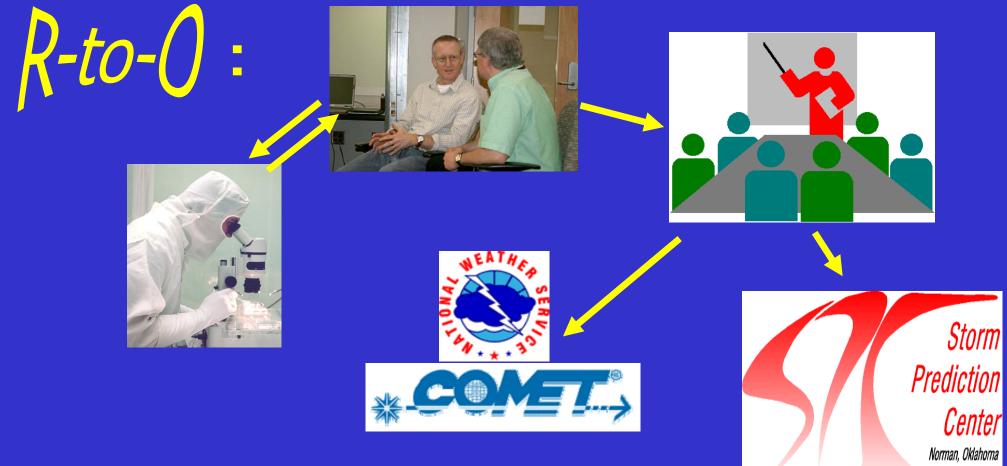
Establishing our own paradigm for science and technology infusion...





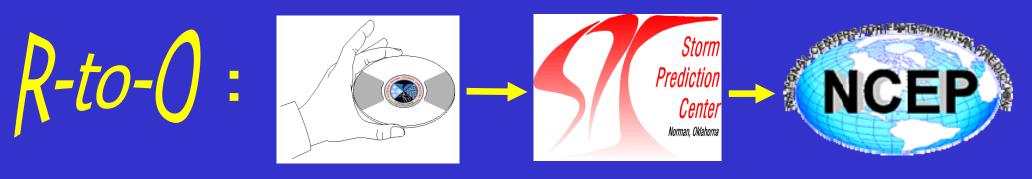


Establishing our own paradigm for science and technology infusion...

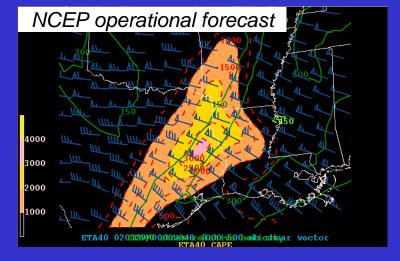


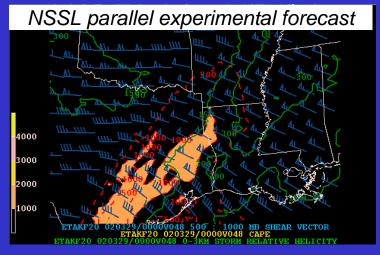
Perform research, communicate results...

Establishing our own paradigm for science and technology infusion...









Transfer technology...

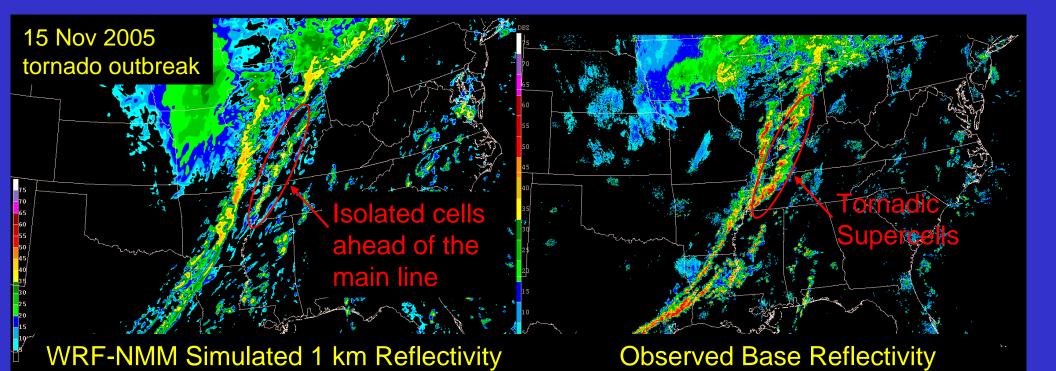
Establishing a "grass-roots" infusion paradigm...



Publish results...

At least 24 NSSL-SPC coauthored, refereed publications since 2000

Tangible Operational Impacts





"The WRF-NMM4 provided very useful input regarding the mesoscale organization and character of storms...I used it to help delineate where/when watches would be required." *John Hart - SPC Day Shift Lead Forecaster*



Questions??













