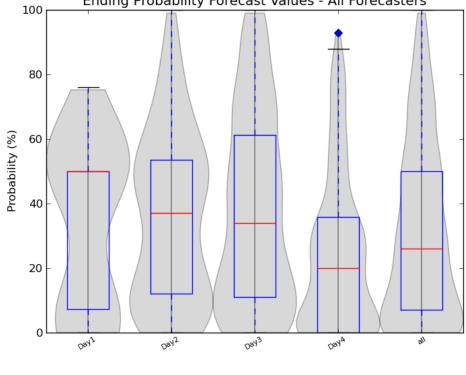


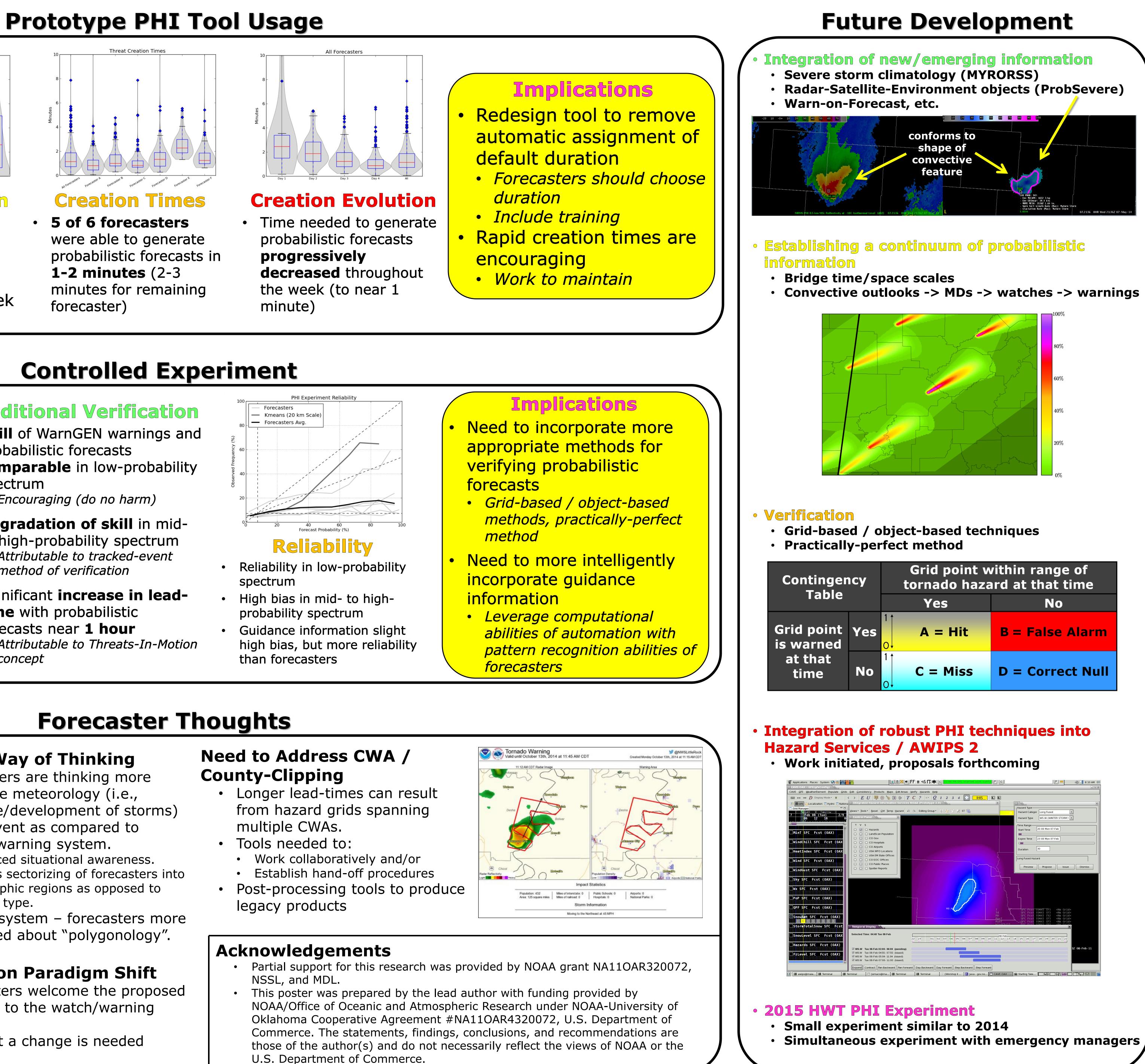
Findings from the 2014 Hazardous Weather Testbed Probabilistic Hazard Information Experiment Christopher Karstens^{1,2}, Greg Stumpf^{1,3}, Darrel Kingfield^{1,2}, Chen Ling⁴, Lesheng Hua⁵, Travis Smith^{1,2}, James Correia, Jr. ^{1,6}, Kristin Calhoun^{1,2}, Kiel Ortega^{1,2}, Chris Melick^{1,6}, and Lans Rothfusz² ¹Cooperative Institute for Mesoscale Meteorological Studies, Norman, OK; ²NOAA/OAR/National Severe Storms Laboratory, Norman, OK;

³NOAA/NWS/Meteorological Development Laboratory, Silver Spring, MD; ⁴University of Akron, Akron, OH; ⁵University of Oklahoma, Norman, OK; ⁶NOAA/NWS/Storm Prediction Center, Norman, OK



Trend Evolution

Ending probability value from trends progressively throughout the week



Controlled Experiment

Traditional Verification

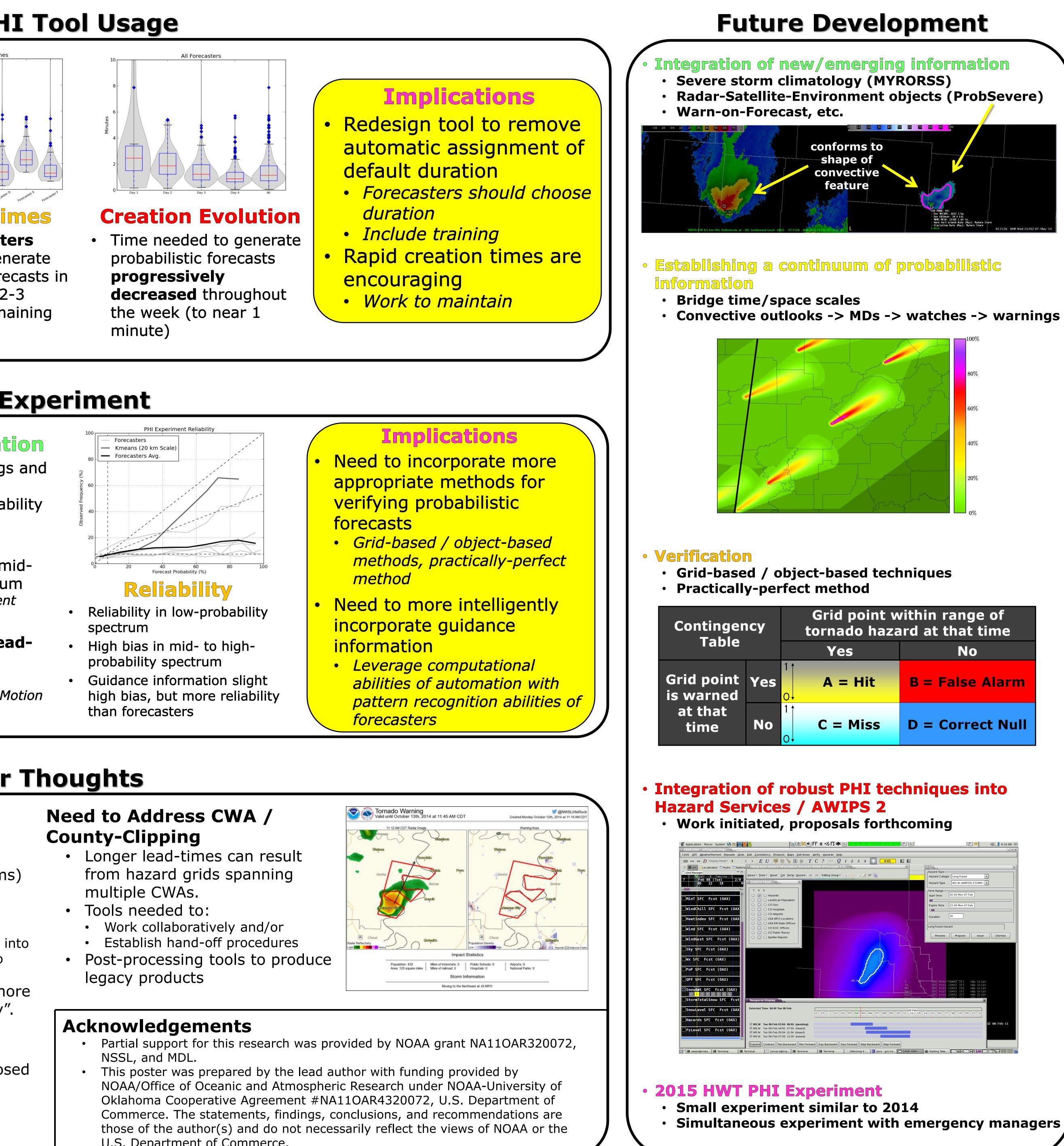
- Skill of WarnGEN warnings and probabilistic forecasts **comparable** in low-probability spectrum
- Encouraging (do no harm)
- Degradation of skill in midto high-probability spectrum • Attributable to tracked-event method of verification
- Significant increase in leadtime with probabilistic forecasts near **1 hour** Attributable to Threats-In-Motion concept

Different Way of Thinking

- Forecasters are thinking more about the meteorology (i.e., structure/development of storms of the event as compared to current warning system.
- Enhanced situational awareness. • Implies sectorizing of forecasters geographic regions as opposed to hazard type.
- Current system forecasters mod concerned about "polygonology"

Thoughts on Paradigm Shift

- Forecasters welcome the propos changes to the watch/warning system
- Feel that a change is needed



		Tornado Warning
	Need to Address CWA /	Valid until October 13th, 2014 at 11:45 AM CDT Created Monday October 1
	County-Clipping	Arkansas Arkansas
ns) into	 Longer lead-times can result from hazard grids spanning multiple CWAs. Tools needed to: Work collaboratively and/or Establish hand-off procedures Post-processing tools to produce 	Withom Boilton Desha Boilton Boilton Boilton Population Boilton Mes of inferstate: 0 Pablic Schools: 0 National Parks: 0 Storm Information
	legacy products	Moving to the Northeast at 45 MPH
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osed	 This poster was prepared by the lead author with funding provided by NOAA/Office of Oceanic and Atmospheric Research under NOAA-University Oklahoma Cooperative Agreement #NA11OAR4320072, U.S. Department of Commerce. The statements, findings, conclusions, and recommendations a those of the author(s) and do not necessarily reflect the views of NOAA or 	



