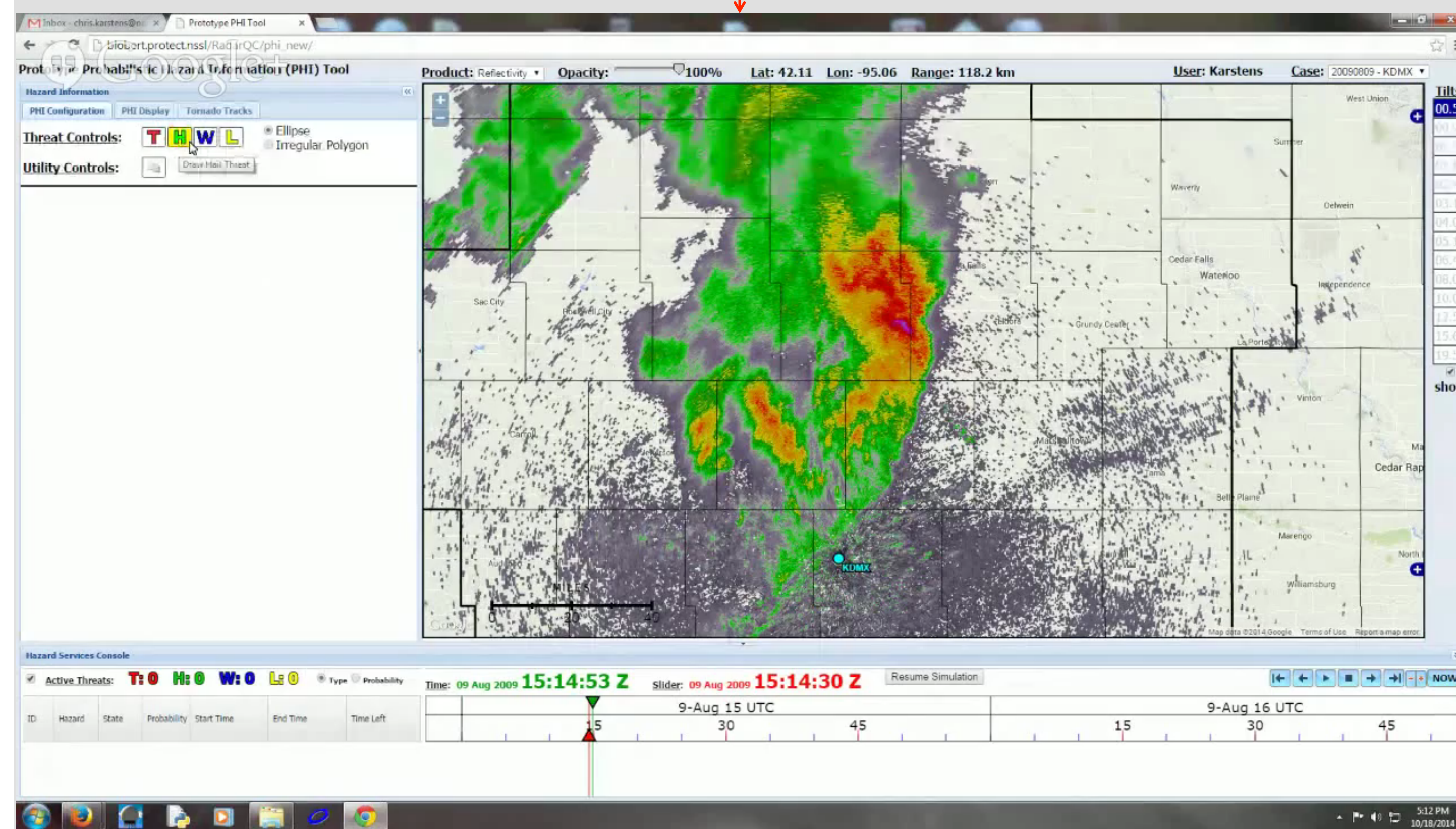
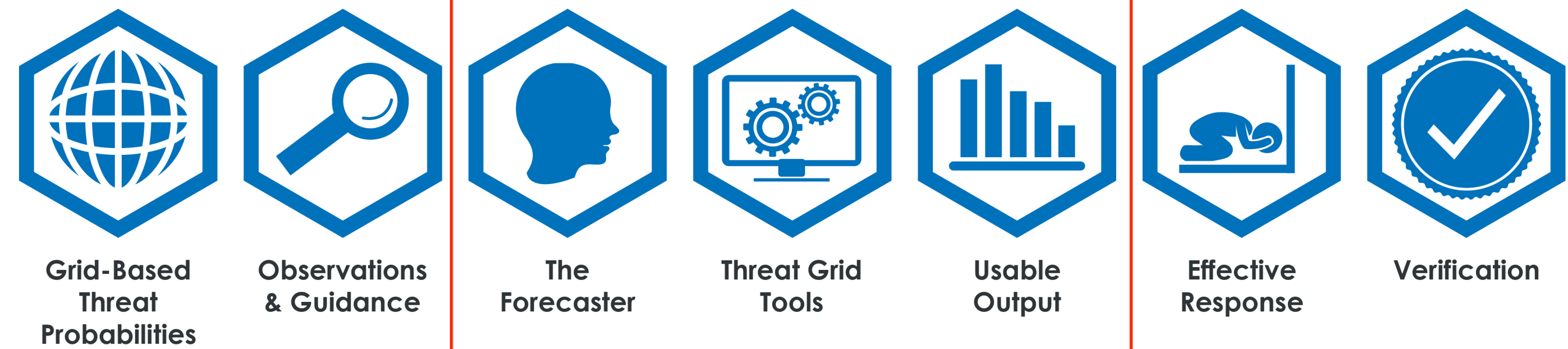
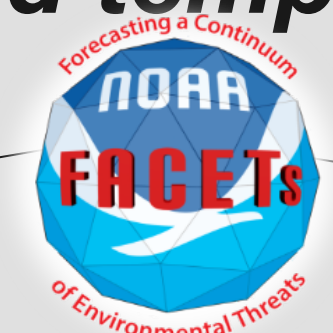


# Prototype Development for Creating Probabilistic Hazard Information (PHI) for Severe Convective Weather

Christopher Karstens, Lans Rothfusz, Greg Stumpf, Travis Smith

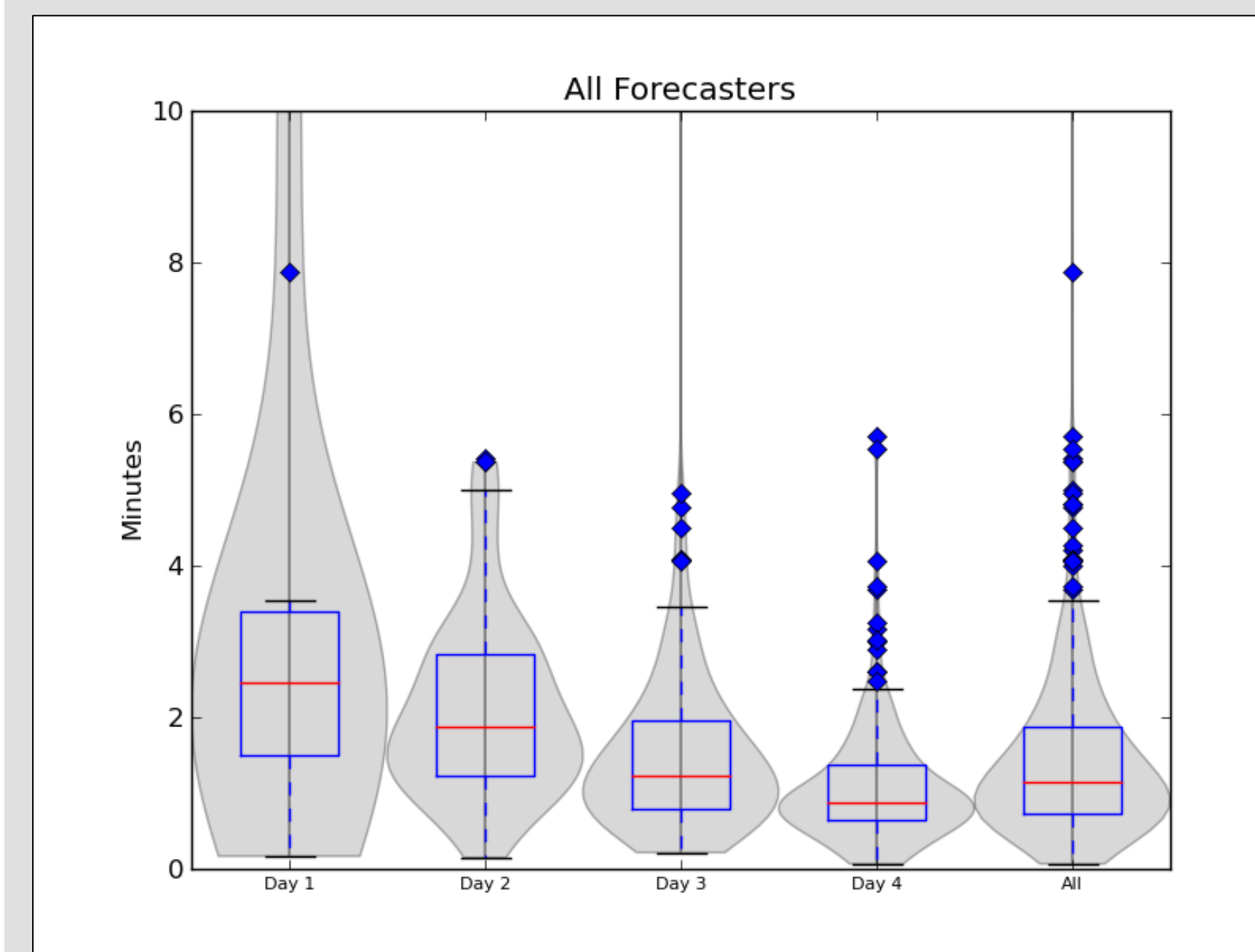
## Probabilistic Hazard Information (PHI)

Information describing the probability for a given hazardous weather phenomenon within a defined spatial and temporal range



## 2014 HWT Experiment Findings (EWP)

### Forecast Creation Times

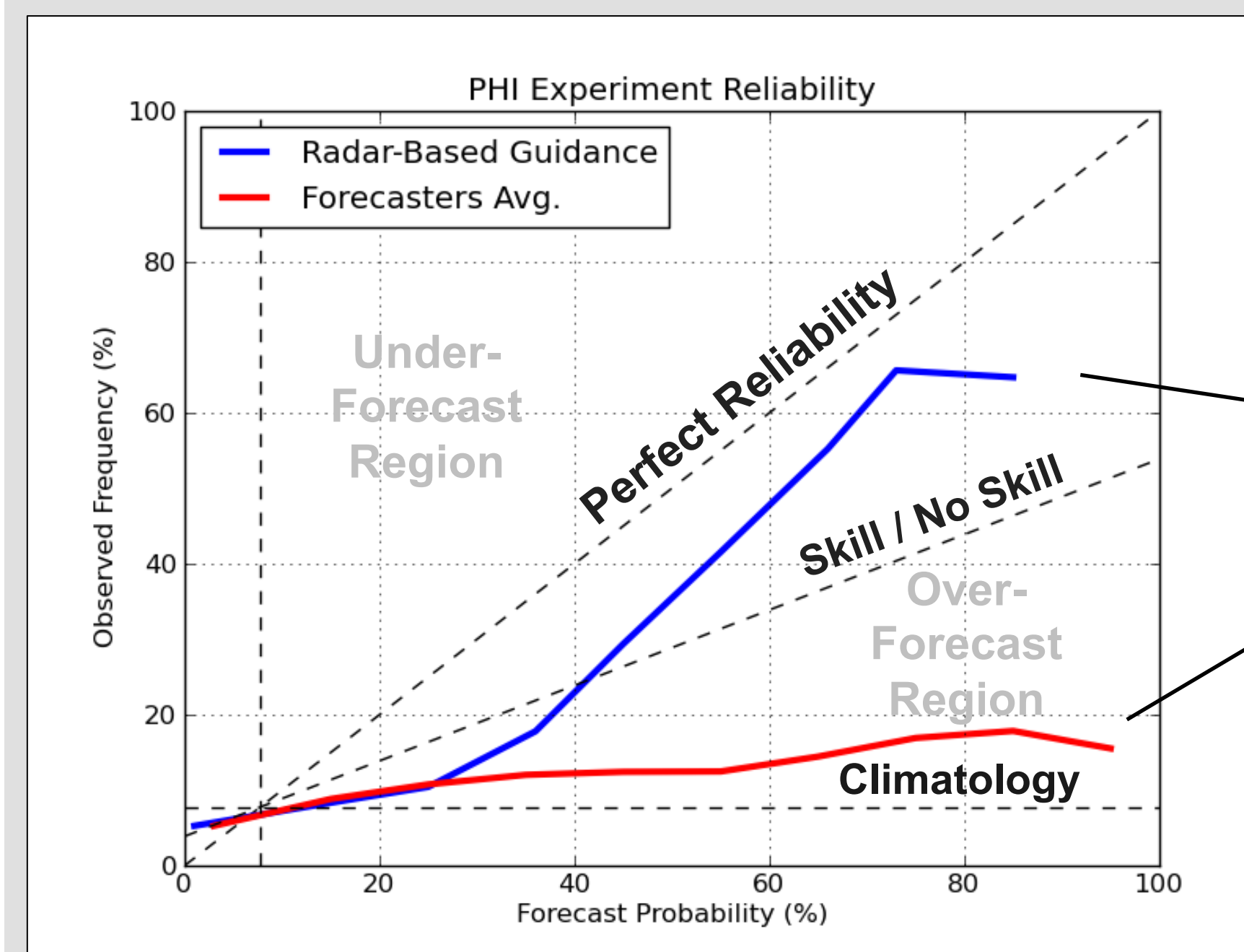


Forecasters found the prototype concepts **intuitive**

Decreasing amount of time to generate forecasts throughout the week

Quickly grasped new abilities (e.g., low probability forecasts with extended lead-time)

### Forecast Reliability

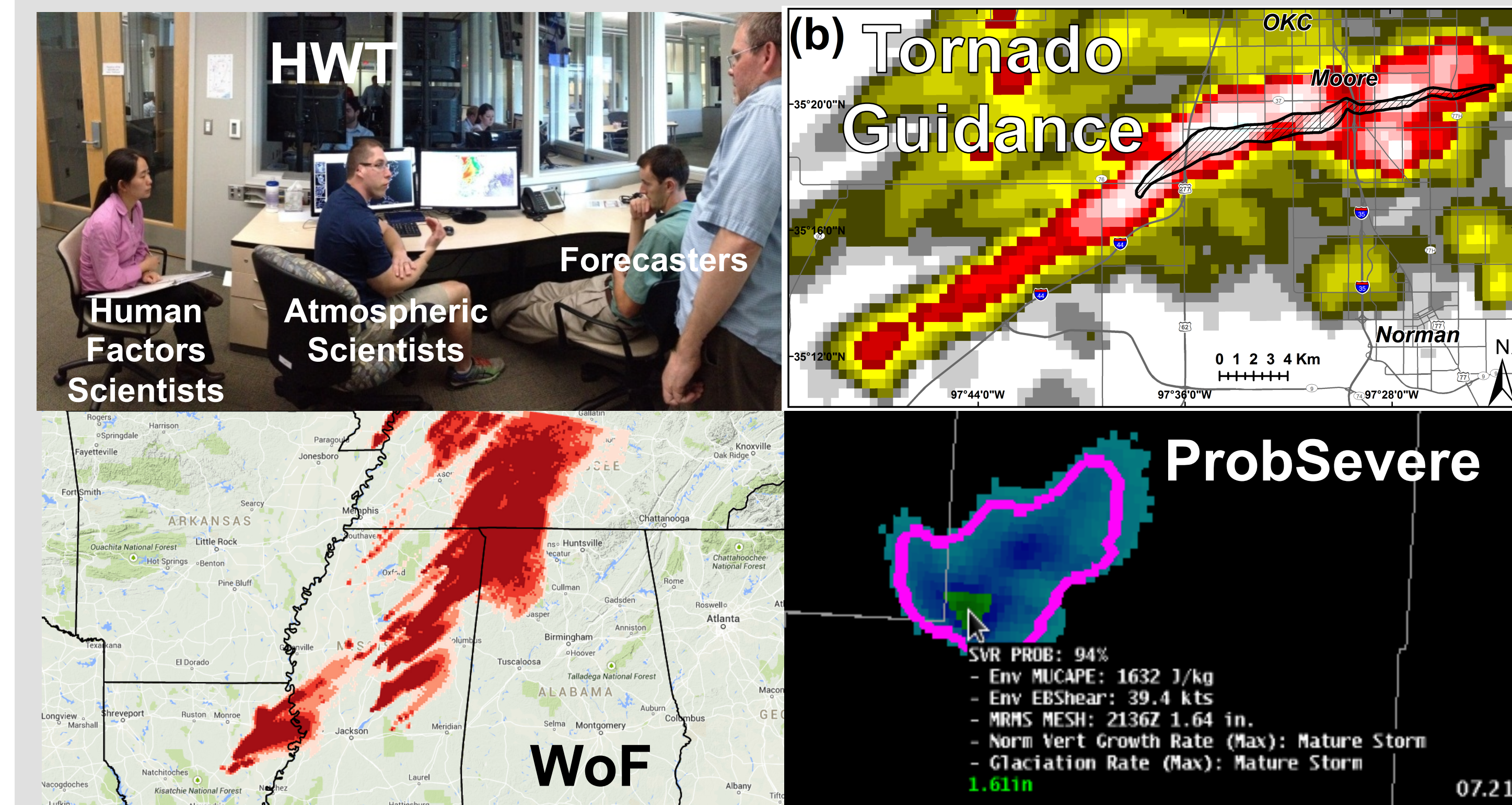


Need for incorporating **reliable 1<sup>st</sup> guess guidance** in forecast decision-making

## Future Plans

### HWT Experiments

- Infusion of radar- and satellite-based algorithms
- Simultaneous experiment with Emergency Managers
- Warn-on-Forecast



### Research To Operations (R2O)

- Collaboration with NOAA/GSD Hazard Services development group
- Operational forecasting support for the PECAN field project (Summer 2015)

