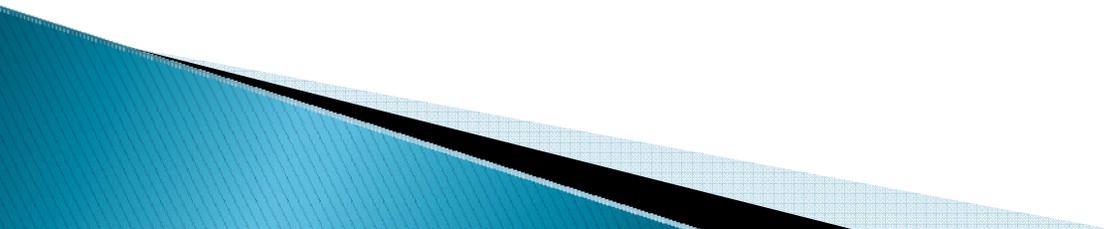


# Mobile Solutions for Storm Damage Surveys

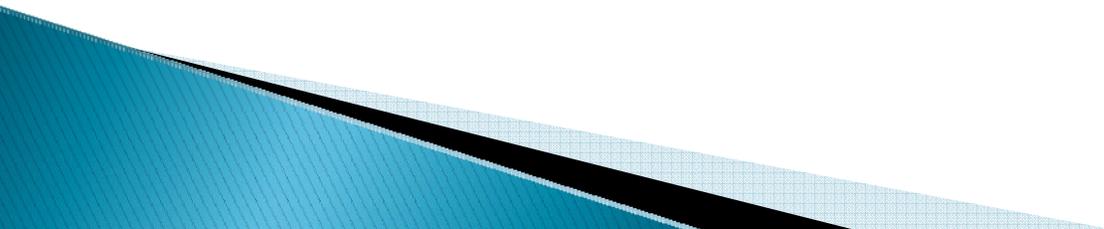
Kris Lander  
CRH

Parks Camp  
WFO TLH

# Project Goals

- ▶ Prototype a system to efficiently and uniformly manage the process of collecting, storing and analyzing storm damage data.
  - ▶ Develop a database warehouse for storm damage data, including straight line winds and tornadoes that can be used for research and development.
  - ▶ Provide users with a timely post storm summary and briefing map to assist in their response and recovery missions.
- 

# Project History

- ▶ 2005: Trimble GPS\PDA prototype developed
  - ▶ 2008: Laptop version 1.0 prototype
  - ▶ 2008: Web editor developed
  - ▶ 2009: Laptop version 2.0 tested in CR offices
  - ▶ 2009: Blackberry prototype developed
  - ▶ 2010: Laptop version 3.0 tested in CR offices
  - ▶ 2010: SR/CR Projects merged into single database
- 

# Demo

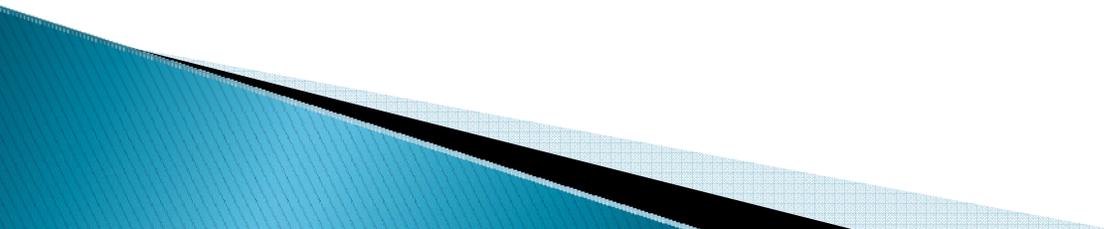
- ▶ **Collect**
  - Blackberry application
  - Laptop application
- ▶ **Quality Control**
  - Web mapping interface
- ▶ **Disseminate**
  - Embedded KML
  - Public Viewer

# Field Test Results

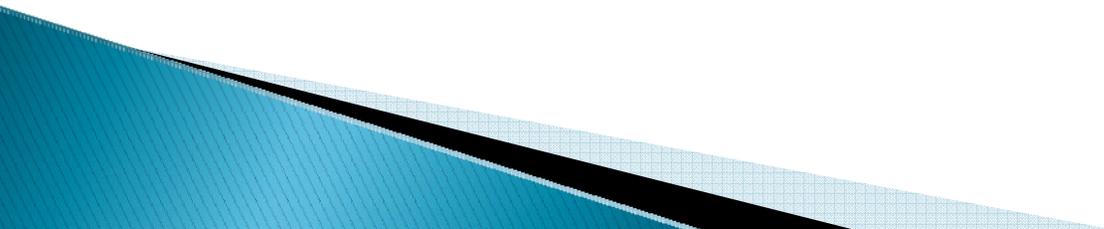
17 CR WFOs registered as test offices reported...

- ▶ **Increased speed:**
  - data collection
  - data analysis
  - public product development
- ▶ **Improved data quality:**
  - damage attributes
  - data consistency between survey teams
  - geospatial accuracy

# Future Plans

- ▶ Ongoing: Laptop app tested at CR WFOs
  - ▶ Q3: BlackBerry app field tested in SR WFOs
  - ▶ Q4: BlackBerry & laptop app field tested in SR & CR WFOs
  - ▶ Q3 & Q4: Deploy BlackBerry application through NOAA BlackBerry Enterprise Server (BES)
  - ▶ 2011: Operational Deployment for Severe Wx Season
- 

# Future Plans

- ▶ At least 1 BlackBerry and 1 Laptop per office configured for storm damage collection
  - ▶ Develop End-to-End Training with web-based support (already begun for Laptop application and Web Interface)
  - ▶ Integrate data into Storm Data
  - ▶ OSIP Project 08-024
- 

# Future Applications

- ▶ Hydro damage application
- ▶ Tropical Storm/Hurricane Damage