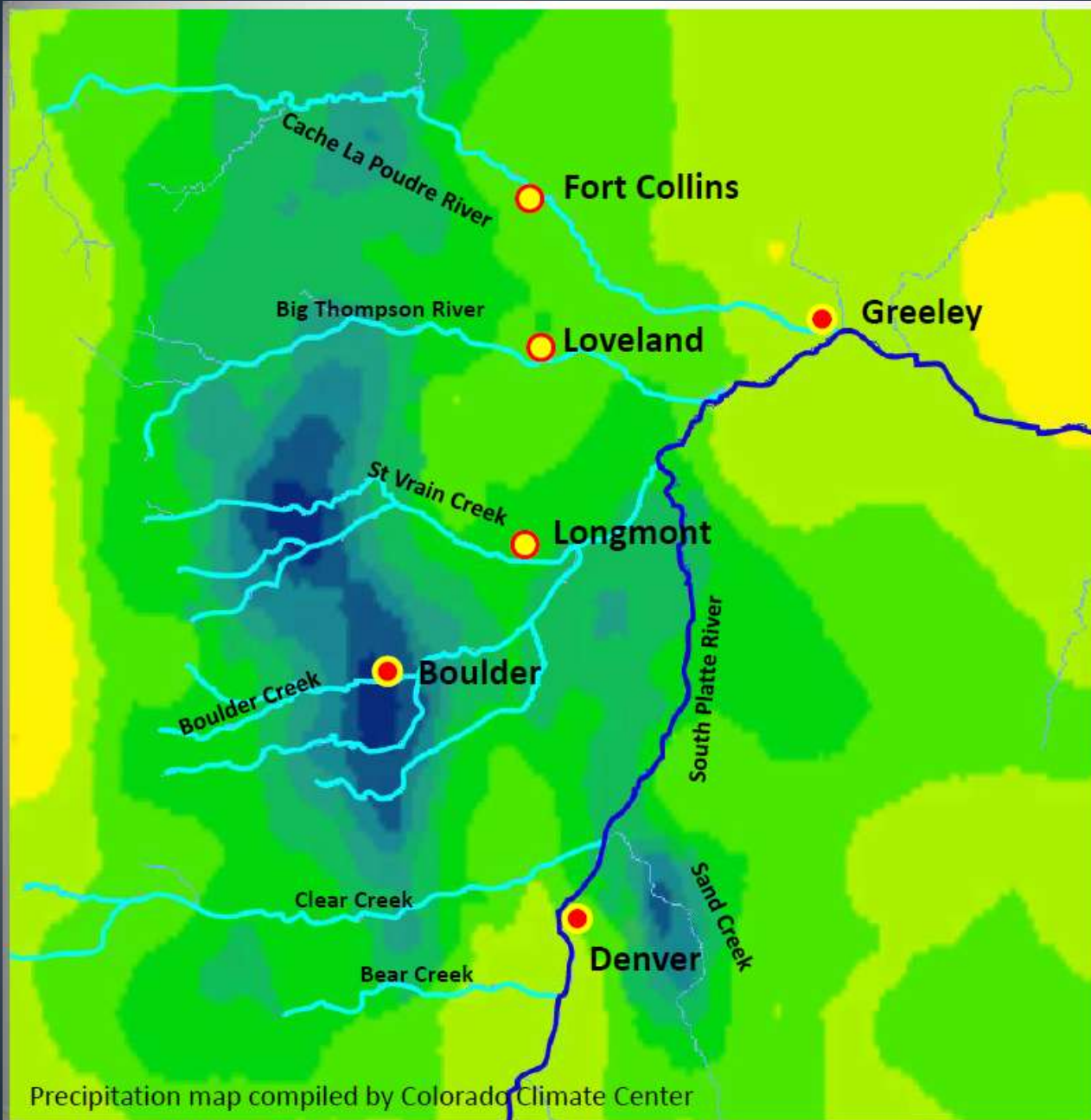


September 2013



**Preliminary total
precipitation
(inches)
Sept 8-15, 2013**

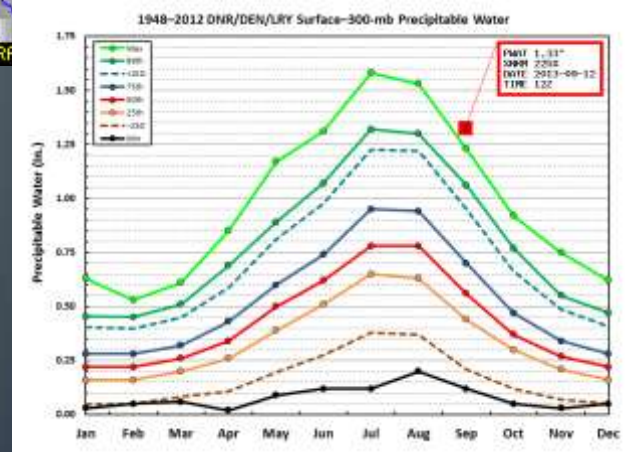


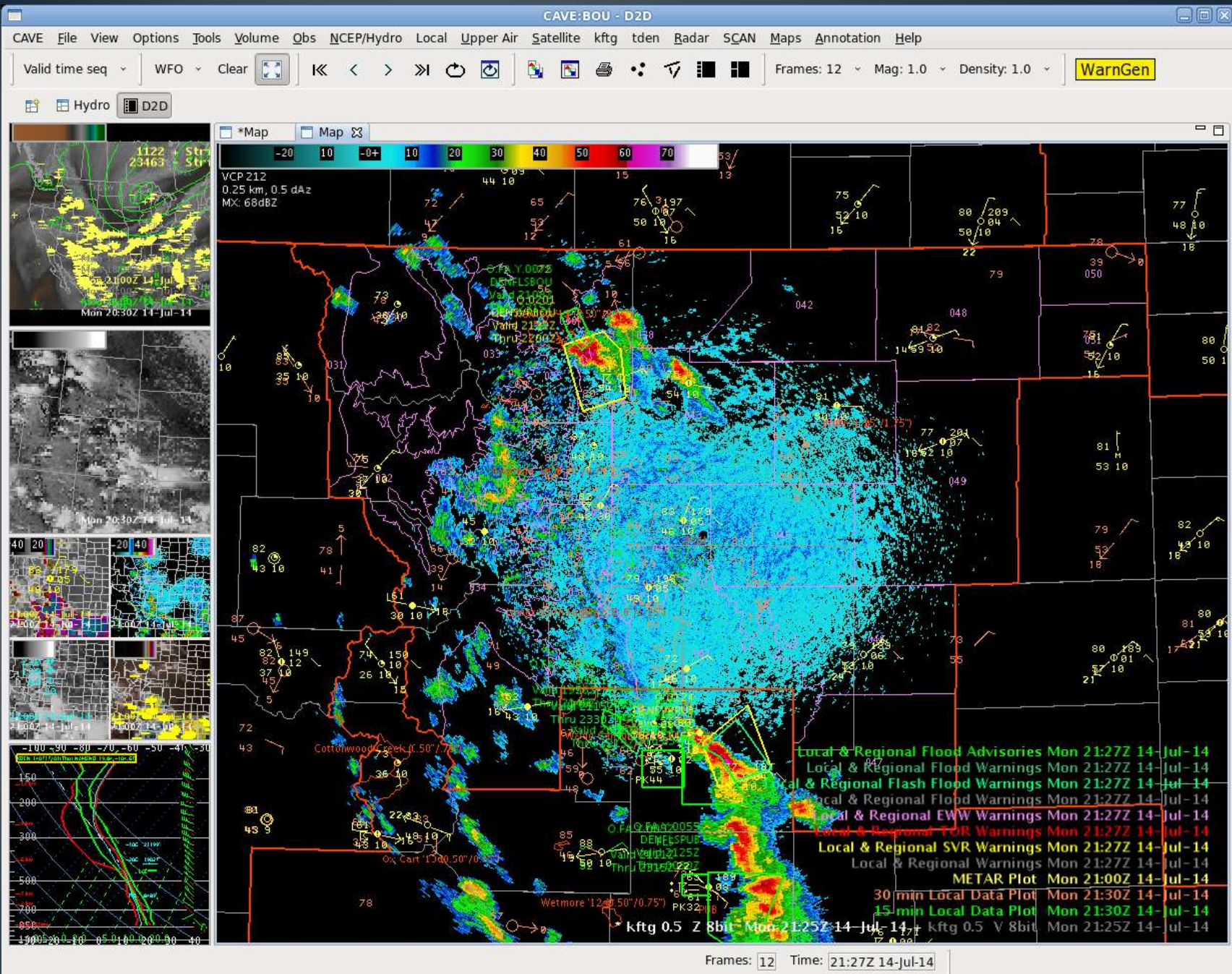
Precipitation map compiled by Colorado Climate Center

Impact Summary Statewide

- Flood Area
 - 1918 square miles
 - 17 counties
- FEMA Disaster Declarations – 9 counties
- 9 fatalities
- 5950 persons evacuated
- 16,101 homes damaged
- 1882 homes destroyed
- 785 commercial buildings damaged
- 203 commercial buildings destroyed
- 200 miles of road damaged or destroyed
- 50 bridges damaged or destroyed

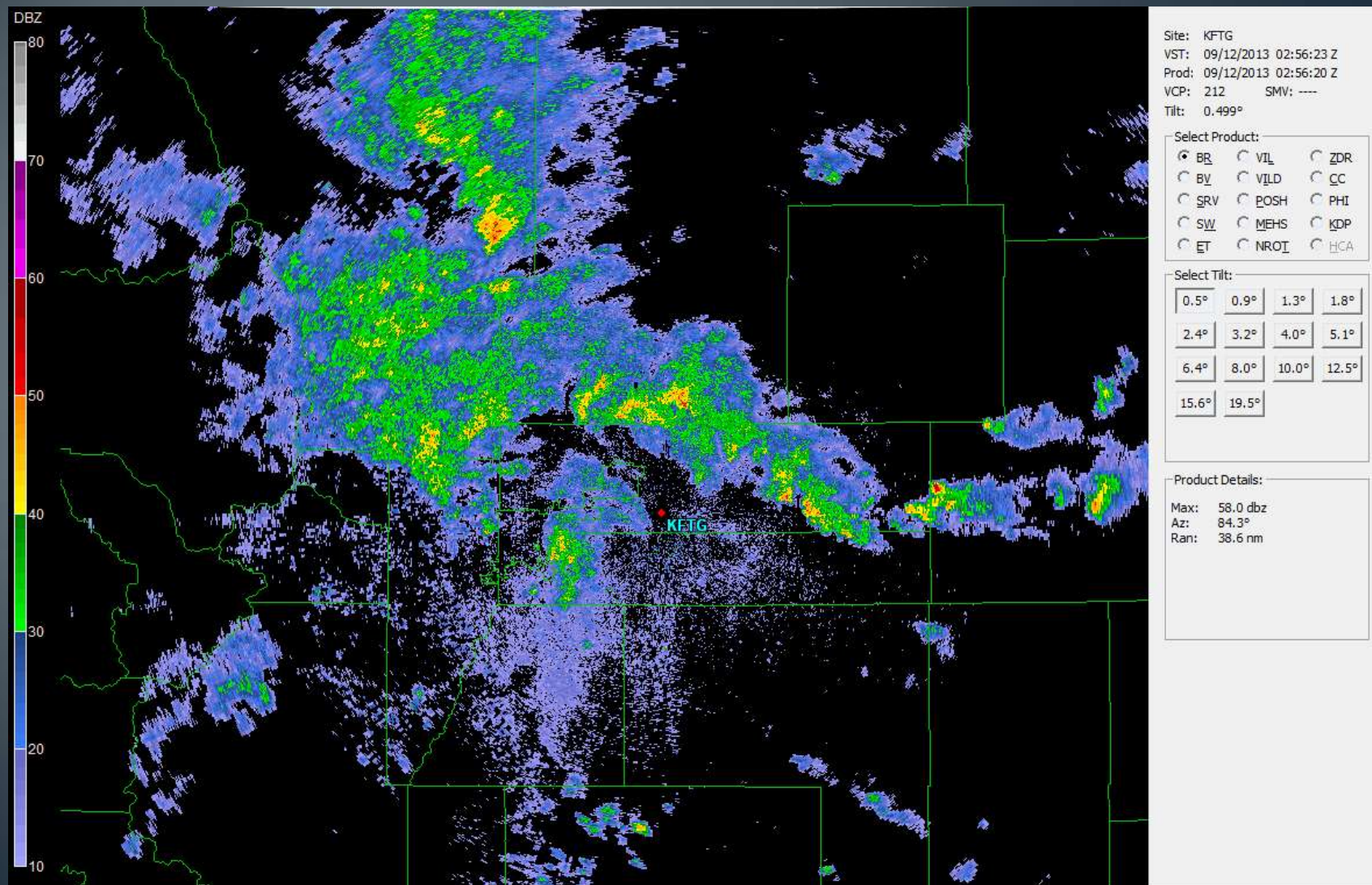
0025 G-15 IMG 3 10 SEP 13253 180000 03325 15901 04.00 RAMSDIS-CIR





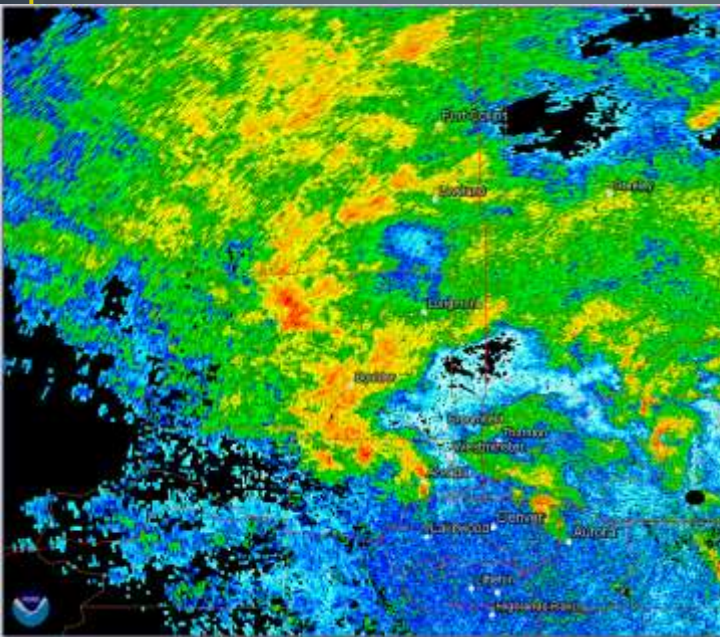
KFTG

9/12 03Z – 9/12 08Z

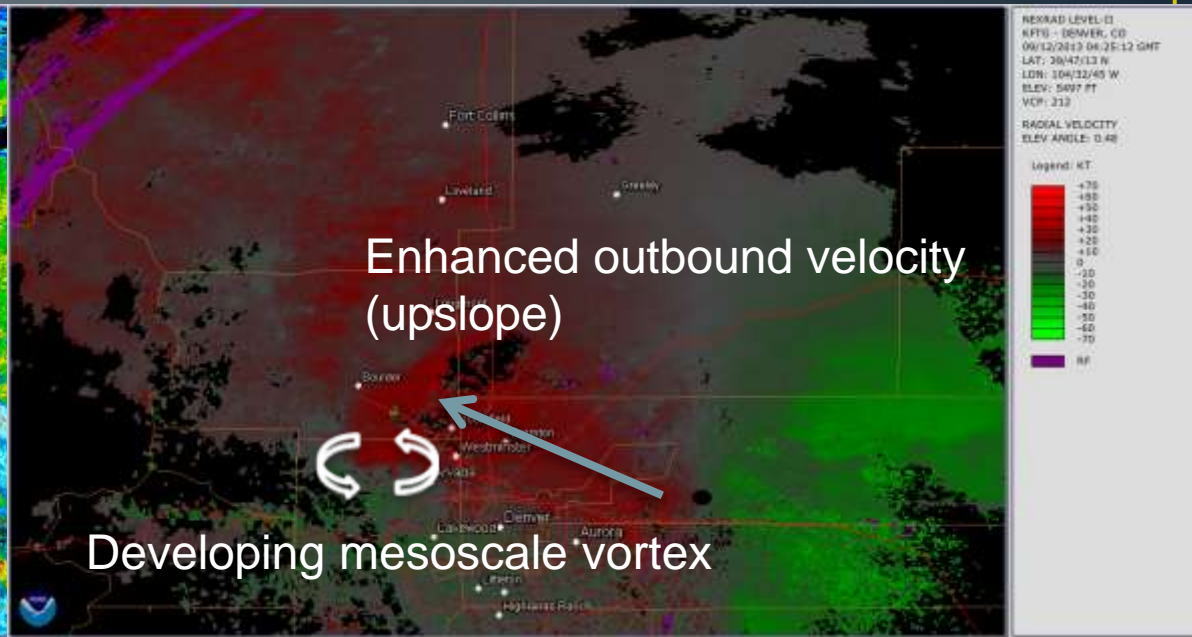


Mesoscale Features

KFTG 0425 UTC



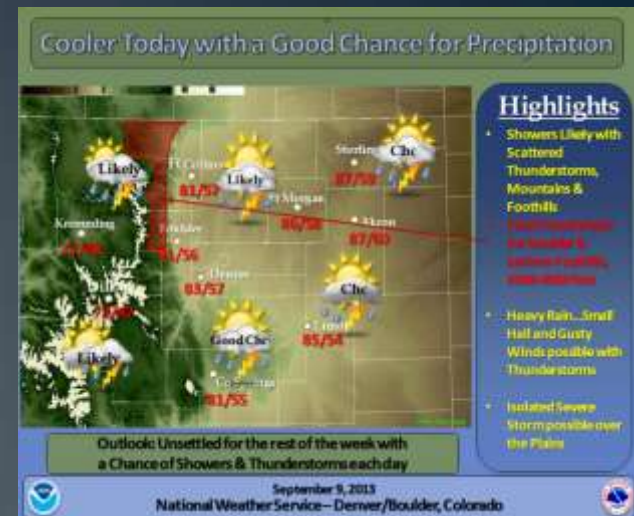
0.5° Reflectivity



0.5° Radial velocity

Warning Operations

- Forecast
 - Strong wording in discussions and conference calls
- Warning Products
 - Urgent wording
- Conference Calls
 - 5 days before event
 - Multiple calls and statewide briefings once event was underway
- Web Page
- FaceBook
 - 320,000 reached on Facebook over nine days
- Twitter
 - Near constant Tweeting Wed night/Thursday, urgent wording
 - Many area jurisdictions/emergency managers use Twitter extensively
- Chat applications
- WebEOC



Extended Decision Support

- **State EOC** calls through September
- **On site meteorologists** supporting response and recovery operations, primarily helicopter rescue and evacuations.
- **FEMA** – Daily email and phone briefings through the winter
- **FEMA** – Temporary housing options – first snow dates, average snow depth, wind and snow load criteria
- **Colorado Department of Transportation** – web and phone briefings through December supporting road reconstruction



First we had a fire...

- **Nine fires 2010 - 2013**
- **Fire begets Flash Flooding**
 - Identification, definition, and coordination of enhanced flash flood threats
- **Teamwork** – Intense outreach, community meetings, County and City officials, Colorado University, water agencies, USGS, Bureau of Reclamation, and many others
- **Our successes** in September 2013 are a direct result of
 - **Improved forecast capability**
 - Meteorological research, modeling, technology/tools and communications
 - **Relationships** with emergency management, media, and the public
 - **Decision Support Services** over three years ...and even decades before