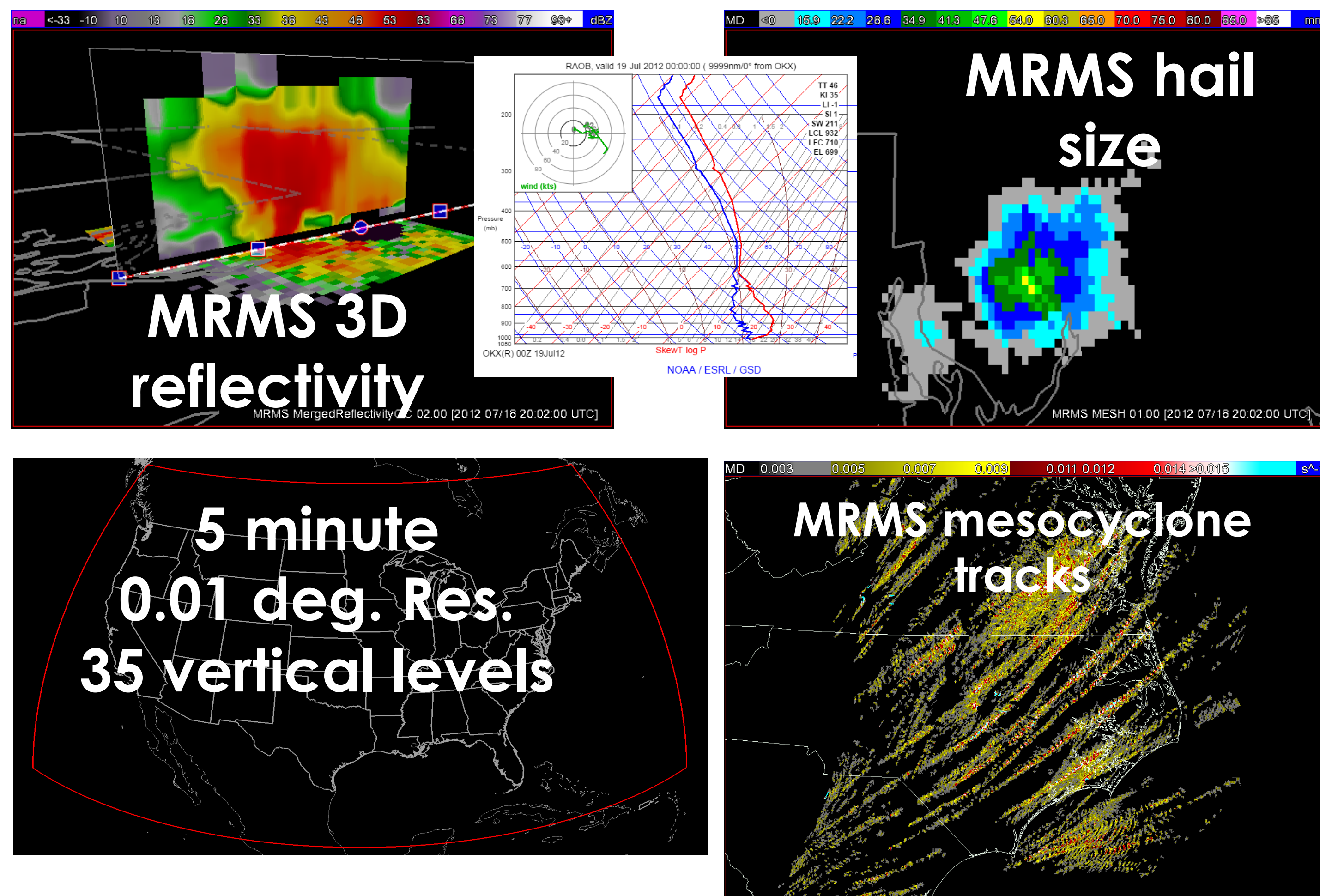


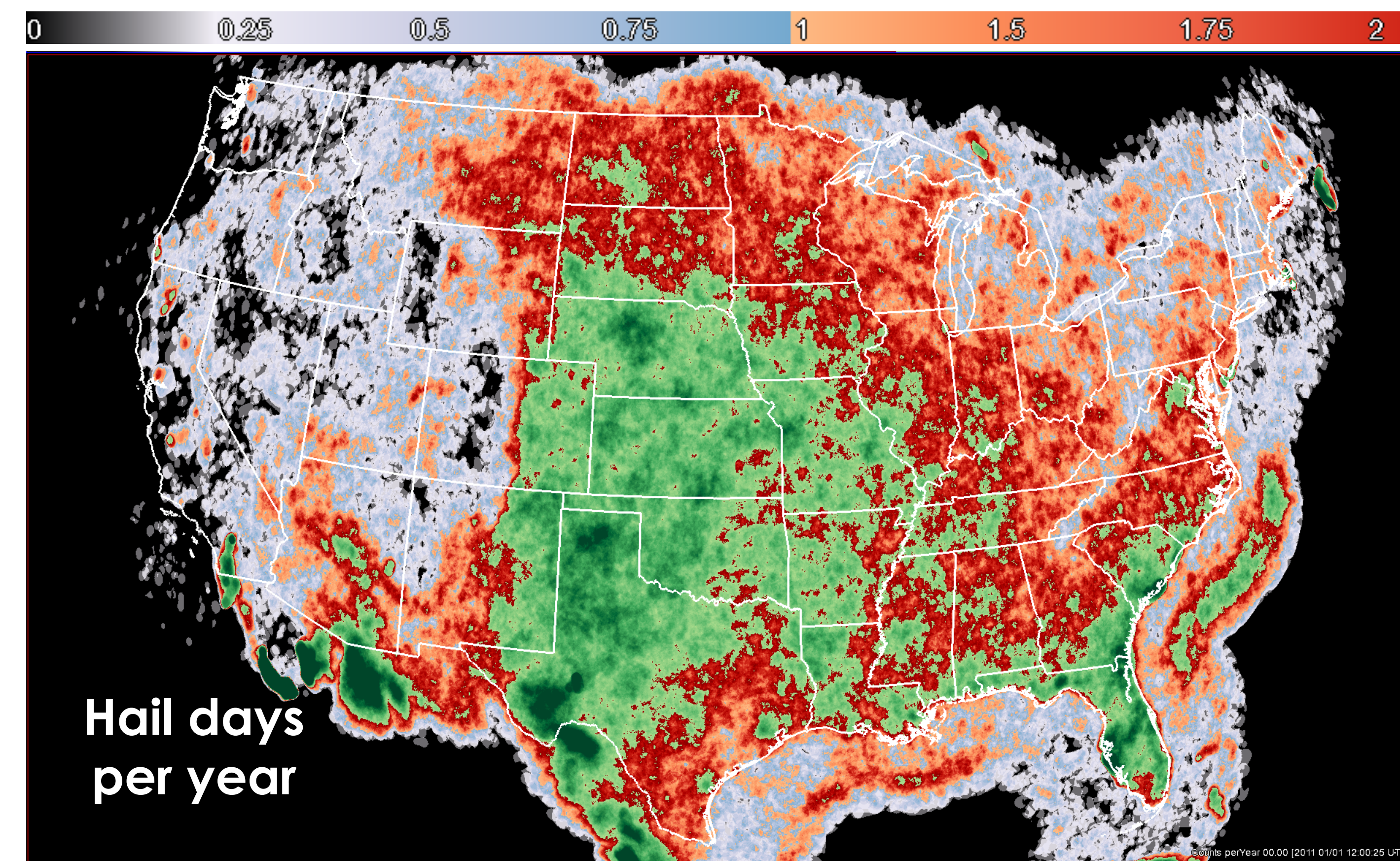
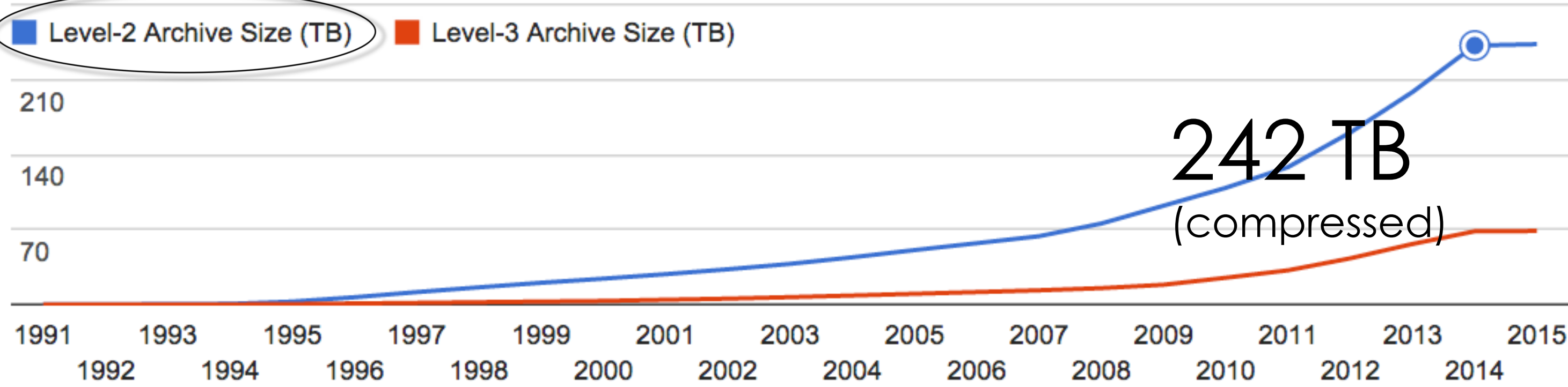
Multi-Year Reanalysis of Remotely Sensed Storms (MYRORSS)

Travis Smith and Kiel Ortega – OU/CIMMS

MYRORSS is reprocessed Multi Radar / Multi Sensor (MRMS) data for the NEXRAD era (1996-present).



NCDC NEXRAD radar data archive



Warning Improvement Goals:

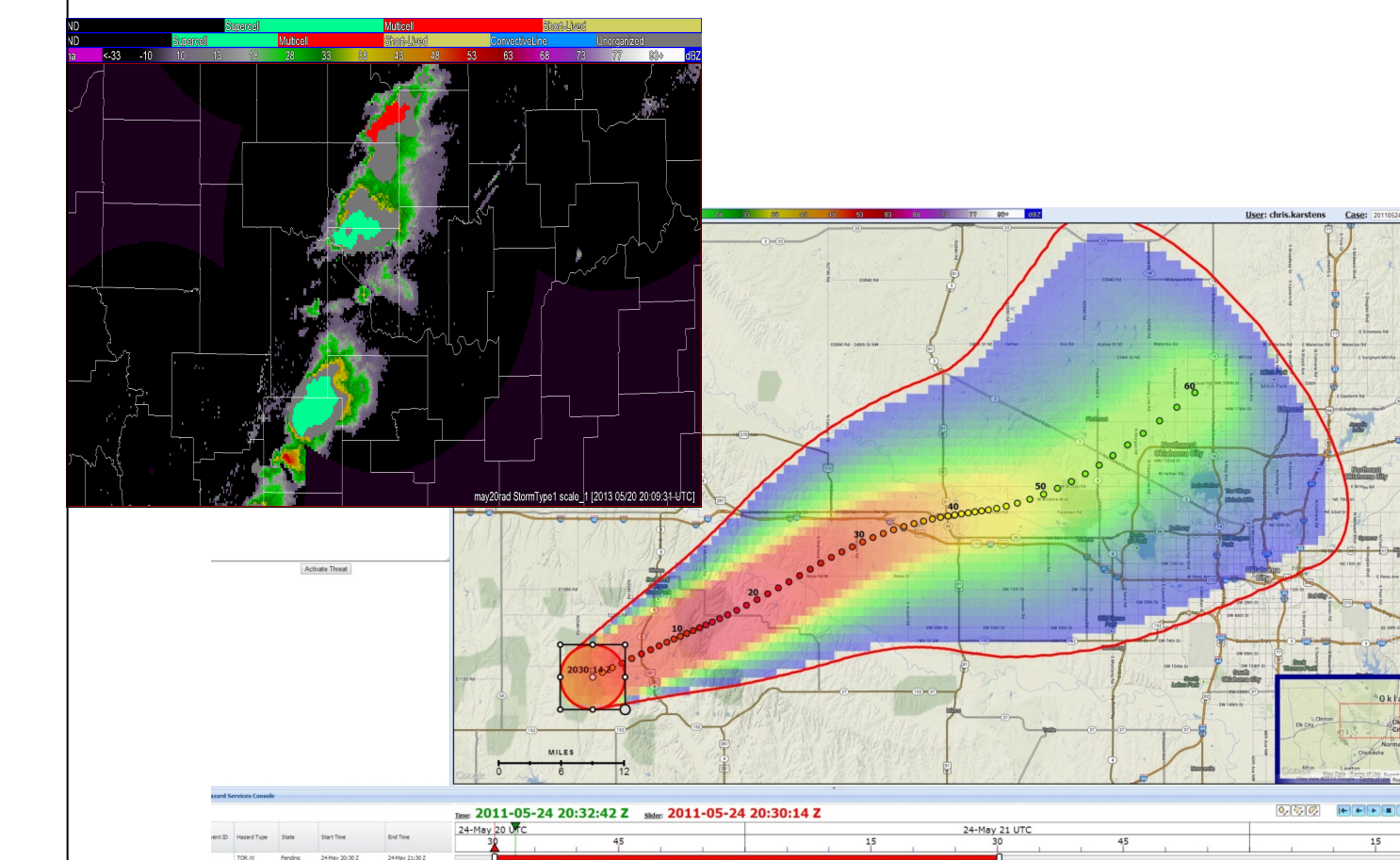
- Automated storm type classification / characteristics (trained by SPC forecasters)
- Probabilities of:
 - Severe weather (tornado / hail / wind)
 - Convection Initiation, Lightning, Etc.
- Probabilistic nowcast of storm motion / longevity / intensity.
- Blend with Warn-on-Forecast for the best available Probabilistic Hazard Information for severe weather guidance.

Goals:

1. Provide a seamless, temporally and spatially consistent data set across the CONUS.
2. Support research in the development of probabilistic information for severe weather threats.
3. Develop collaboration across multiple disciplines that can take advantage of the data for the benefit of society (climate, agriculture, economics, etc.)

Data mining of storm properties (radar, environment, satellite) to generate probabilities is the core of the FACETs project.

- Statistical guidance



Process:

1. Single-radar processing and automated quality control (QC)
2. Multi-radar blending
3. Human QC (reprocess when needed)
4. Multi-radar algorithms
5. Data mining, statistics generation

Data to be hosted at NCDC for NOAA use and licensed to the private sector by OU.

