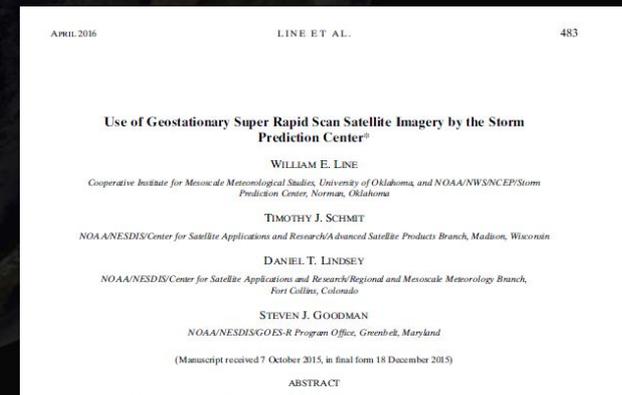


- 2-3 Feb (Norman): Merging of Lighting Detection Data from Space and Ground-Based Systems meeting in Norman
- 1-3 March (KC): SIFT Tool training
- 18 April – 13 May (Norman): HWT 2016 GOES-R/JPSS Spring Experiment
 - Final Report in progress
- 9-13 May (Norman): 2016 NOAA Satellite Proving Ground/User-Readiness Meeting
 - *HWT 2016 Spring Experiment - Overview*
 - *Satellite Training at the Hazardous Weather Testbed*
 - *SNPP NUCAPS Training Experience*
- 14 - 15 May: 2016 WSB Weather Seminar (Atlanta)
 - *GOES-R: What It Means for You*
- WAF article published (April 2016):
 - William E. Line, Timothy J. Schmit, Daniel T. Lindsey, and Steven J. Goodman, 2016: Use of Geostationary Super Rapid Scan Satellite Imagery by the Storm Prediction Center. *Wea. Forecasting*, **31**, 483–494. doi: <http://dx.doi.org/10.1175/WAF-D-15-0135.1>



HWT 2016 GOES-R/JPSS Spring Experiment

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- SPC participating in GRE. Simulated ABI imagery (all 16 bands) flowing over SBN into SPC and HWT AWIPS-II (D2D only)
- SPC involved in PDA testing currently.
- 15-19 Aug (Madison): AMS SatMet Conference (oral)
 - Results from GOES-R and JPSS Proving Ground Demonstrations at the HWT 2016 Spring Experiment (oral)
- 23 Aug (Norman): SOO Development Course (GOES-R section)
- 12-16 Sep: NWA Annual Meeting
 - Results from GOES-R and JPSS Proving Ground Demonstrations at the 2016 HWT Spring Experiment (poster)
 - 2016 NWA Satellite Training Workshop

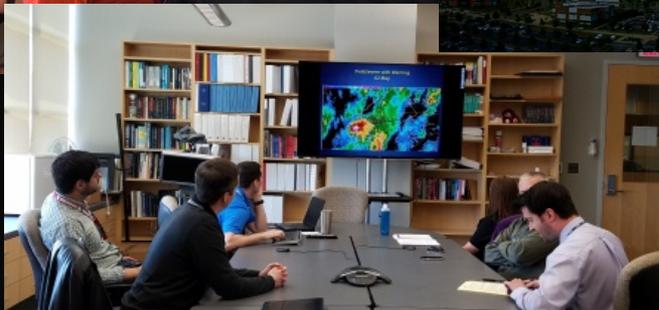
GOES-R antennas for SPC installed in Feb



HWT 2016 GOES-R/JPSS Spring Experiment

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- Dates: Weeks of April 18, 25, May 2, 9 (4 total weeks)
 - During SRSOR
- Forecasters: 3 NWS, 1 broadcast met per week
- Real-time, AWIPS-II, Articulate training, live blog
- Forecasters issue experimental warnings/mesoscale forecast updates
- Projects: SRSOR Imagery, SRSOR Imagery parallax corrected, SRSOR AMV's, CI, CI-Severe, ProbSevere, GOES Sounder All-sky LAP, PGLM, Lightning Jump, JPSS NUCAPS
- * July VISIT Satellite Chat * AMS SatMet Conference * NWA Annual Meeting *
- Final Report in progress

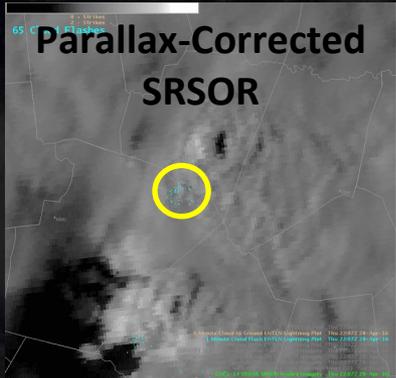
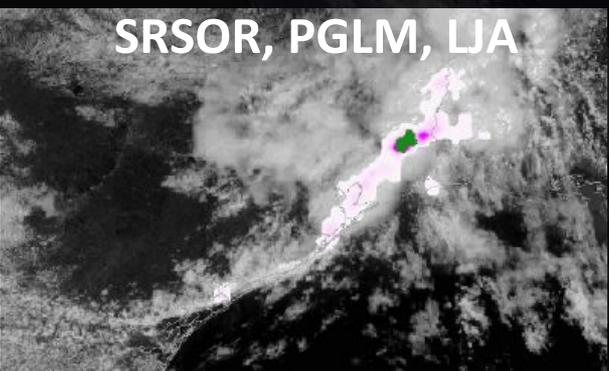
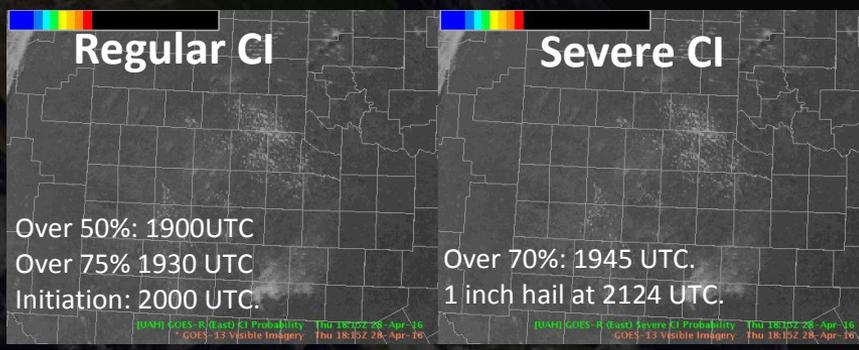
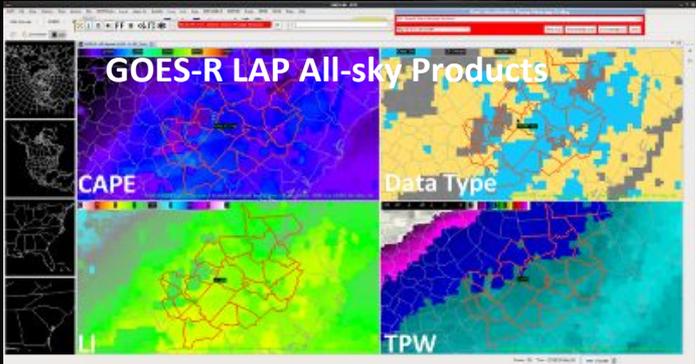


HWT 2016 GOES-R/JPSS Spring Experiment

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cimms



<http://goesrhwt.blogspot.com/>

- Mesoscale forecast updates
- Reasoning behind warning decisions
- Updates to previous warnings/forecasts
- Best practices
- Ideas for improvement
- Any thoughts/feedback, good/bad, about the experimental products

CI gives a lead time of 45 minutes!

The highest CI of the day matched up with the highest ProbSevere Probability...so far! The CI algorithm showed a 61% probability at 2030Z. Then...as convection formed and moved northwest towards that specific area where the CI was... at 50% (without any satellite)

Chatham And Wake County Severe Thunderstorm Warning - Prob Severe and Lightning Jump Helpful!

Here is the Severe Thunderstorm Warning issued at 2030 UTC. The storm that was in the area at the time of the warning issuance. However, the Prob Severe was 61% at the time of the warning issuance. These factors, combined with the lightning jump, give me more confidence to issue a warning. Several other reports of 1.00 inch of rain and 1.00 inch of spongy ball size hail in Kerley (later on). JJW

Raleigh Pre-Storm Analysis

In terms of moisture and instability, the Raleigh CWA appears to be primed for convection this afternoon.

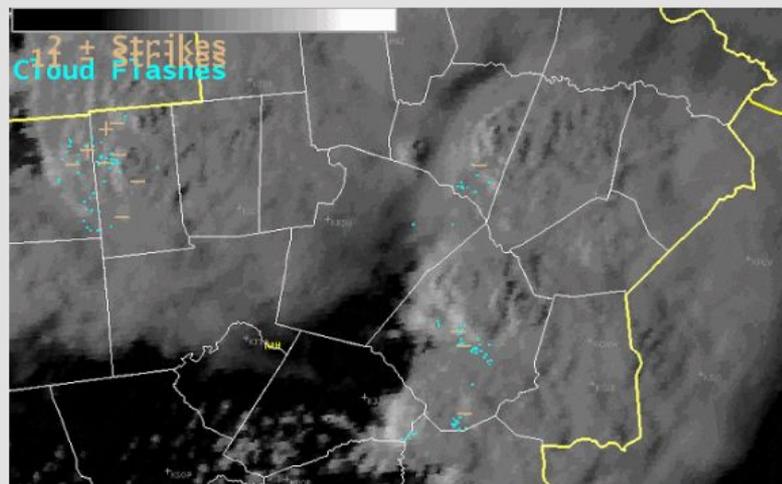
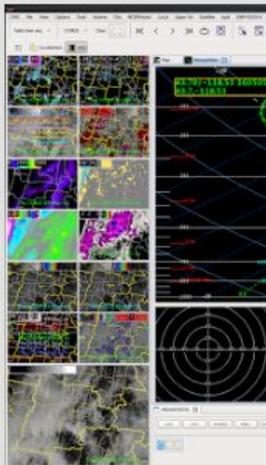
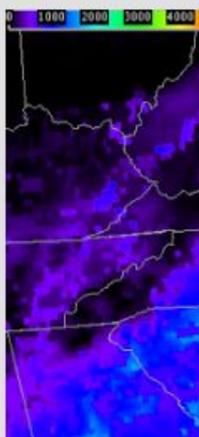
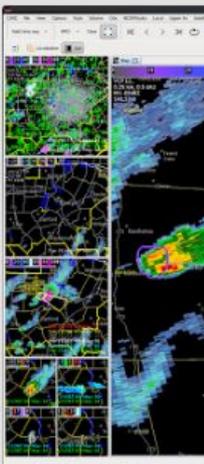
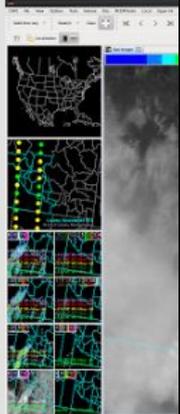
Surface dewpoints are well above 60F and are in the 70-80F range on the latest LAP and GFS. The MUCAPE field which are dependent on the GFS, are largely less than 1000 J/kg, what the GFS is showing, per the mesoanalysis, so this leads to the expectation that skies over the area should

NUCAPS Sounding Showing Increasing MUCAPE And Lower 0C/-20C Levels!

The adjusted NUCAPS sounding, taken at 1800 UTC, shows MUCAPE values over 1200 J/kg at 2000m, earlier (off of the 1200 UTC BOI soundings).

Rapid Storm Intensification Evident On Super Rapid Scan

The super-rapid scan visible imagery clearly showed a rapid intensification of a few storms across the CWA. This intensification corresponded with intensification in radar parameters. Within 15 minutes of this feature on the satellite imagery, ProbSevere had jumped to 97% and there were several 2-3 sigma lightning jumps. A significant TBSS was also evident in the half hour after this satellite feature.



>400 blog posts this year

GOES-14 Super Rapid Scan Operations to Prepare for GOES-R (SRSOR)

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SRSOR for 2016 included February 1- 25, and April 18-May 15 (Fort McMurray fires), and will include **August 9-28**:

http://cimss.ssec.wisc.edu/goes/srsor2016/GOES-14_SRSOR.html

Data during parts of 2012 (Hurricane Sandy, convection), 2013 (CA Rim Fire, convection) and 2014 (Hurricane Marie, convection) and 2015 (convection):

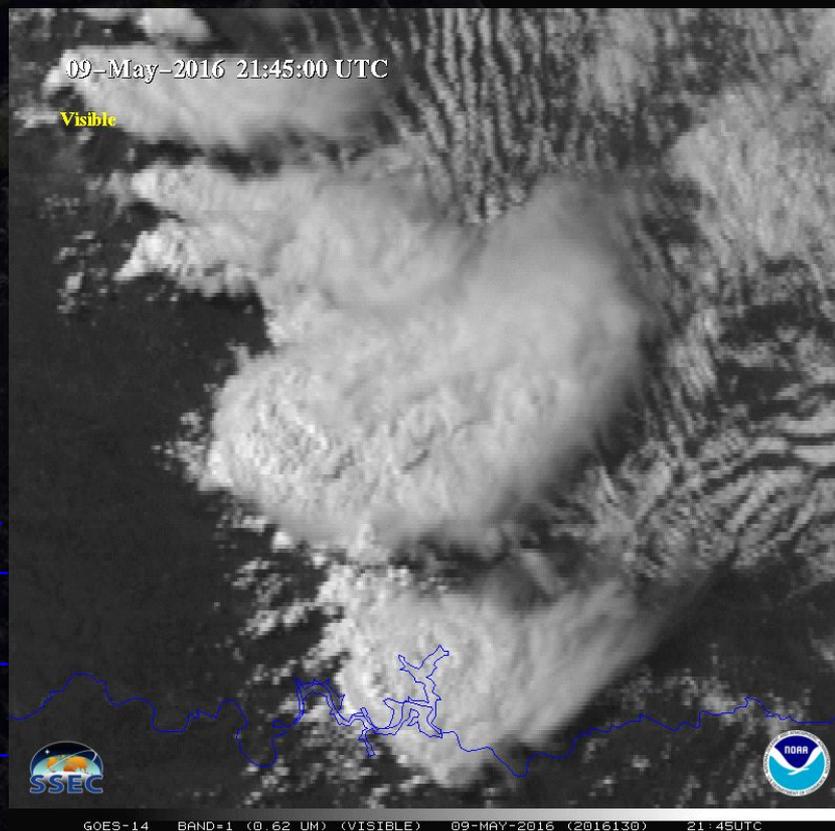
http://cimss.ssec.wisc.edu/goes/srsor/GOES-14_SRSOR.html

http://cimss.ssec.wisc.edu/goes/srsor2013/GOES-14_SRSOR.html

http://cimss.ssec.wisc.edu/goes/srsor2014/GOES-14_SRSOR.html

http://cimss.ssec.wisc.edu/goes/srsor2015/GOES-14_SRSOR.html

GOES-14 provides unique data and offered a glimpse into the possibilities that will be provided by the ABI in one minute mode



GOES-14 visible image showing rapid convective development over just 30 minutes