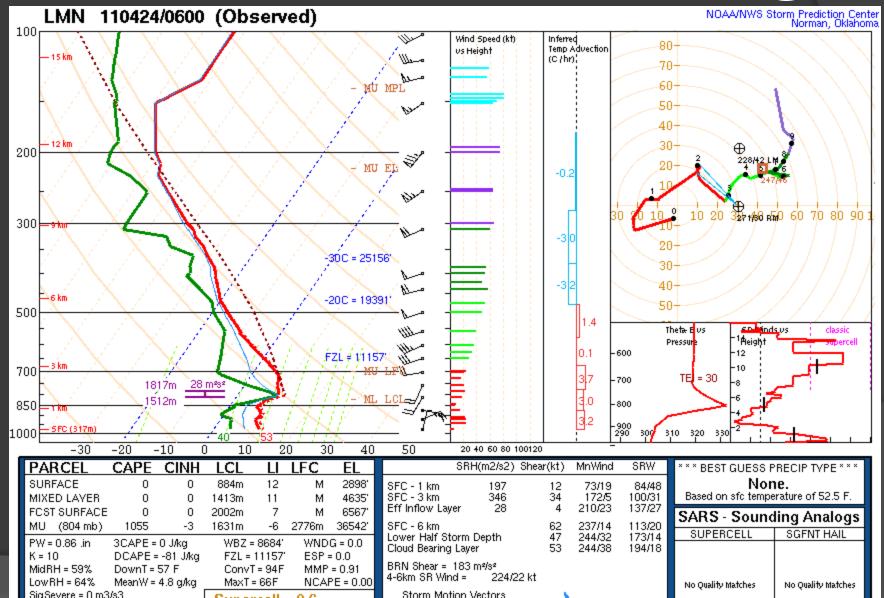
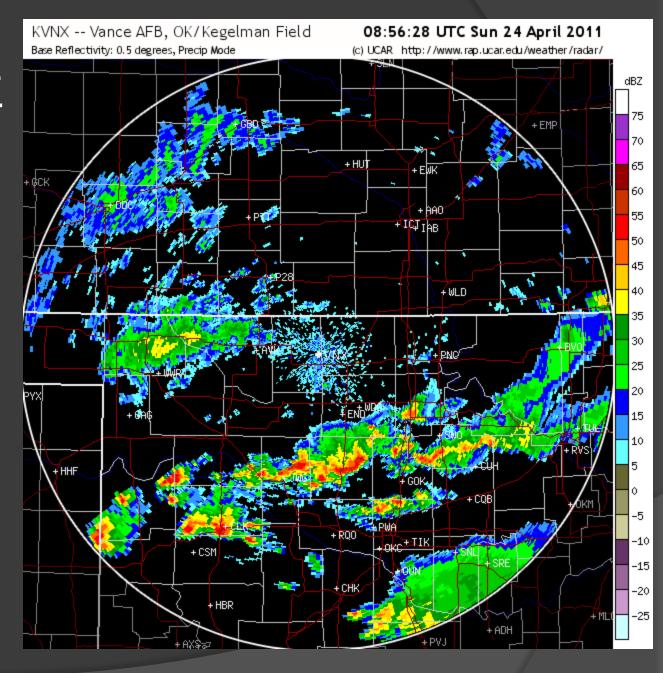
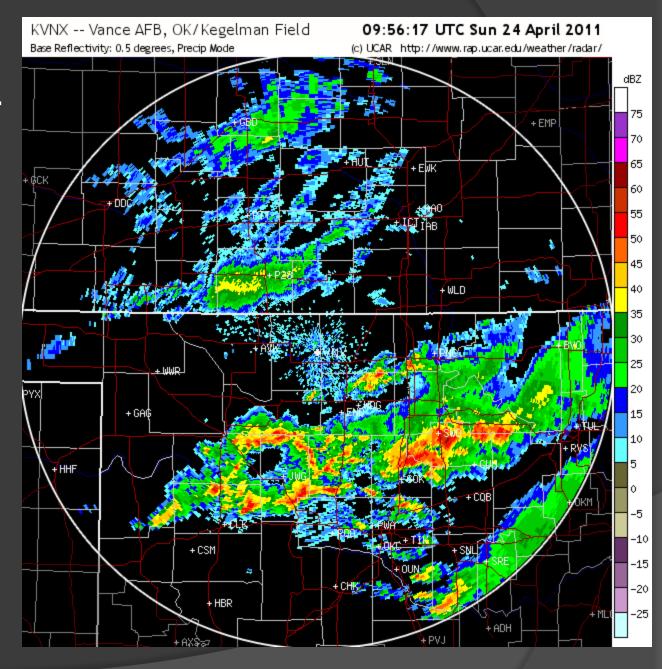
Saturday April 23, 2011

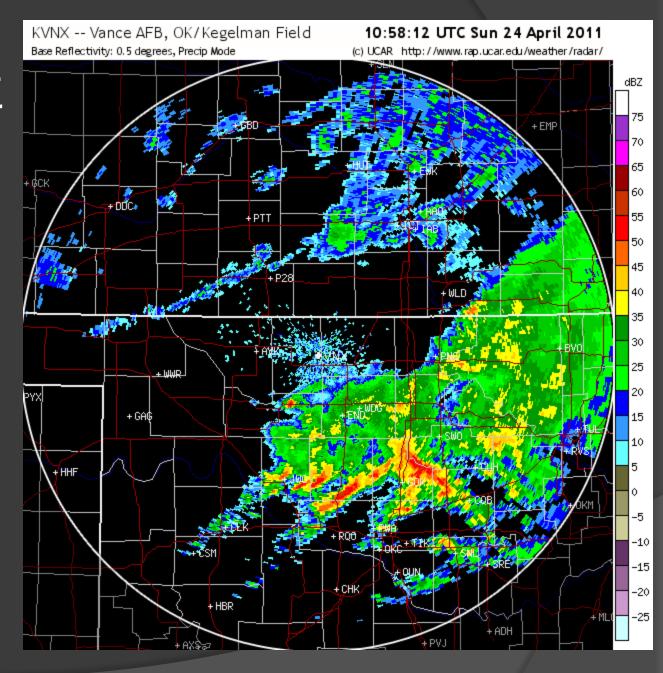
MC3E WEATHER BRIEFING

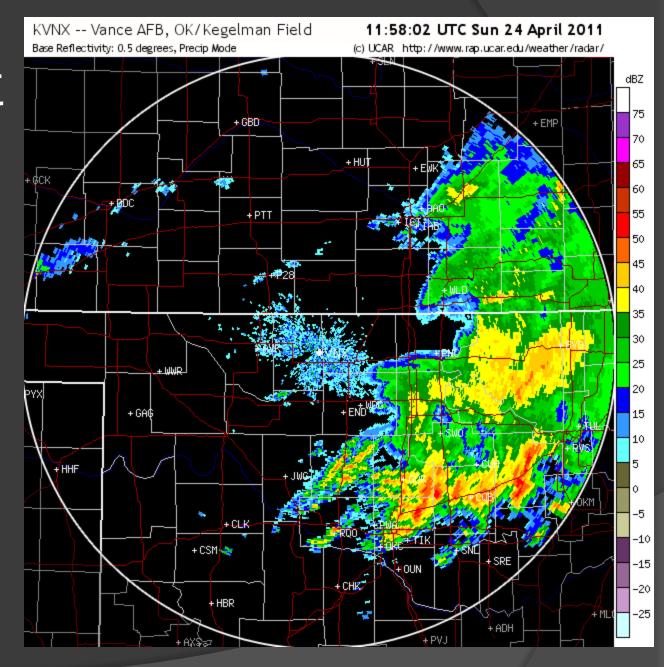
LMN Special 06UTC Sounding

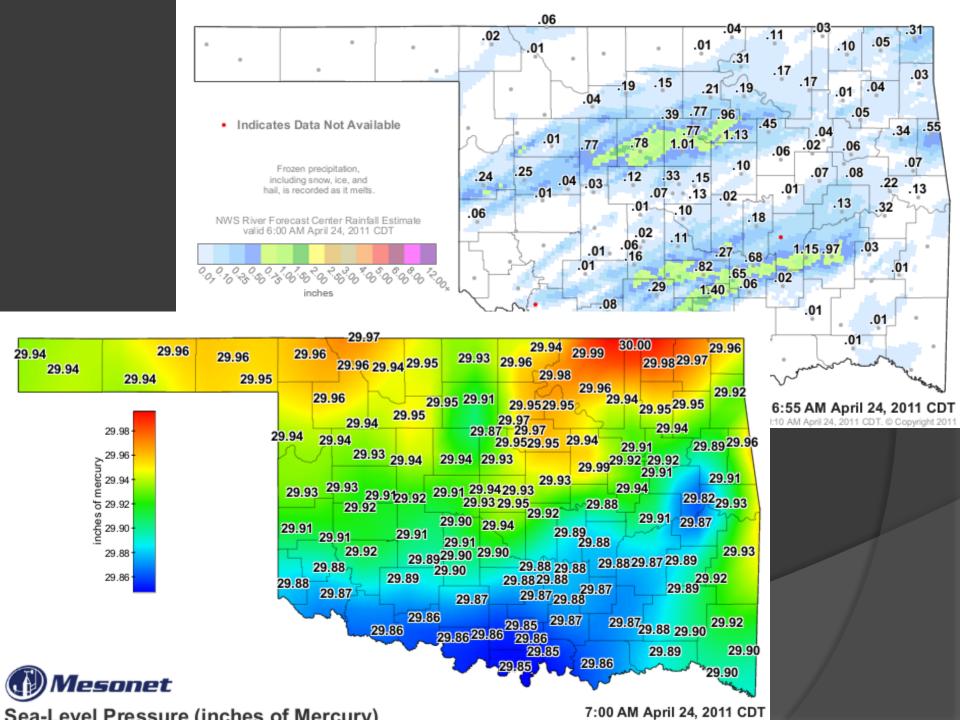


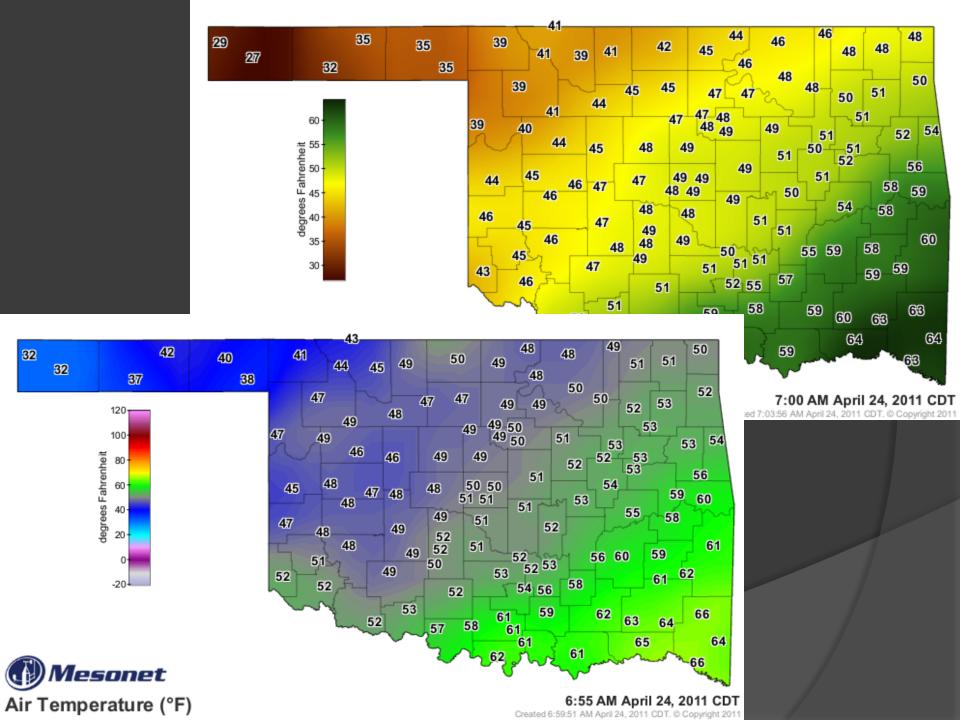


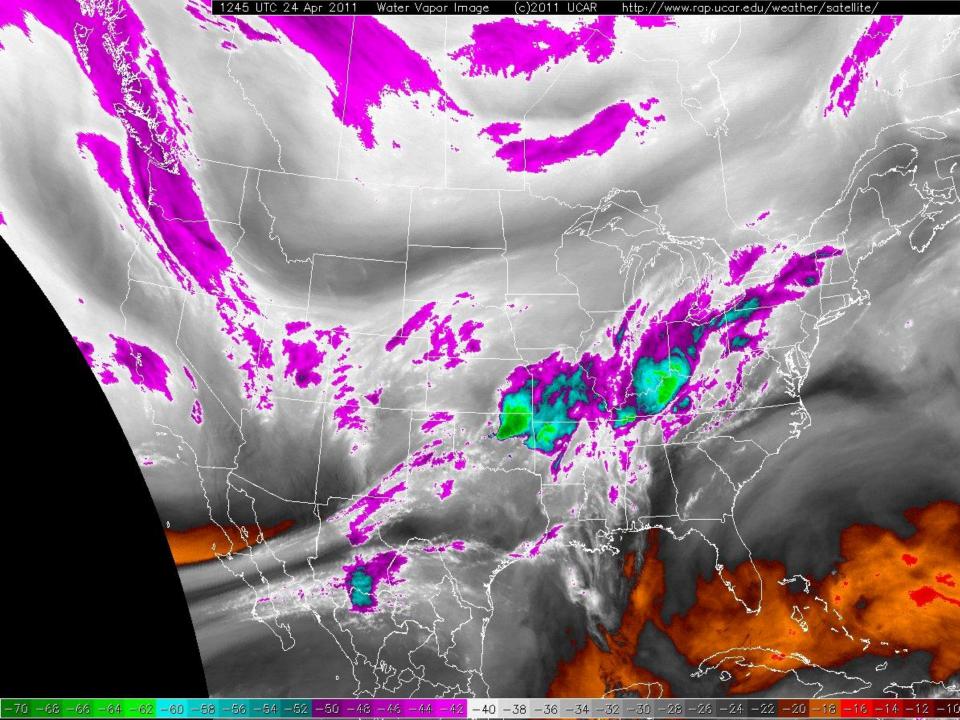


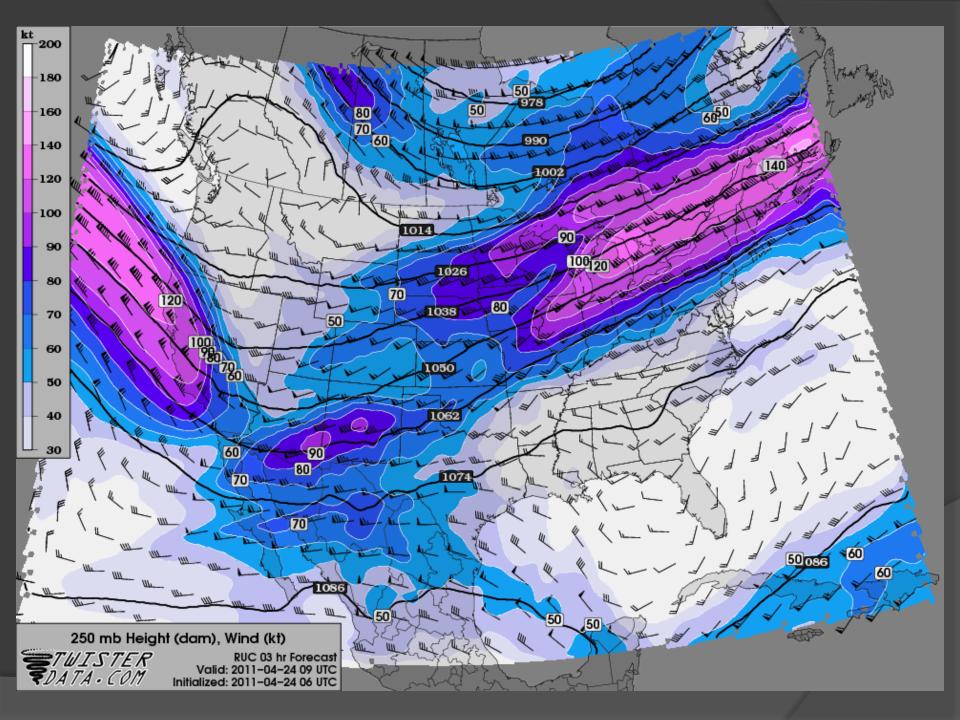


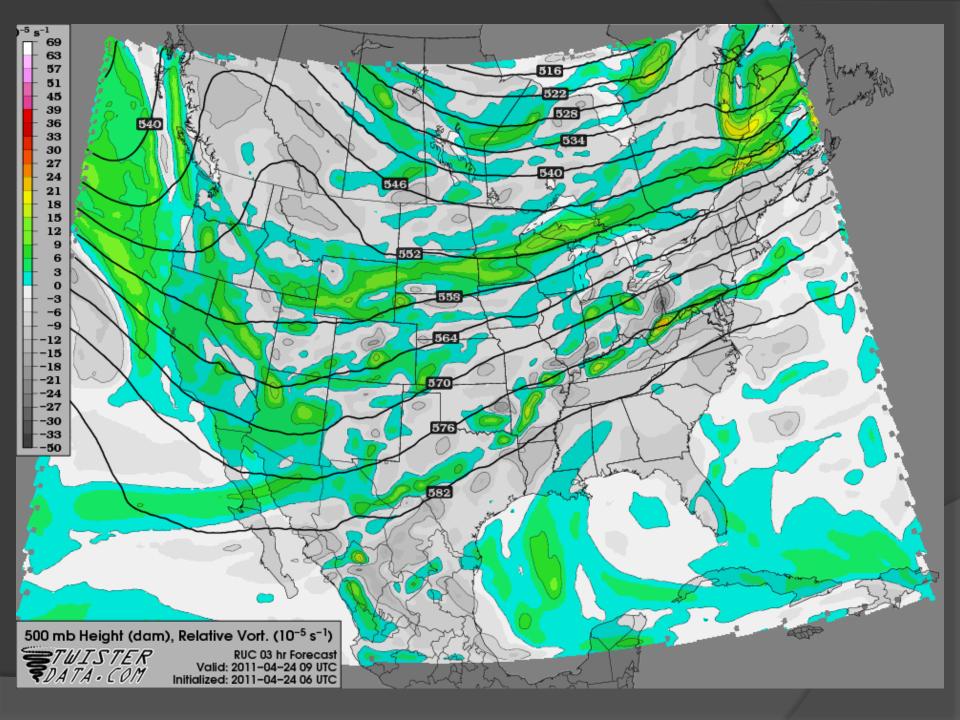


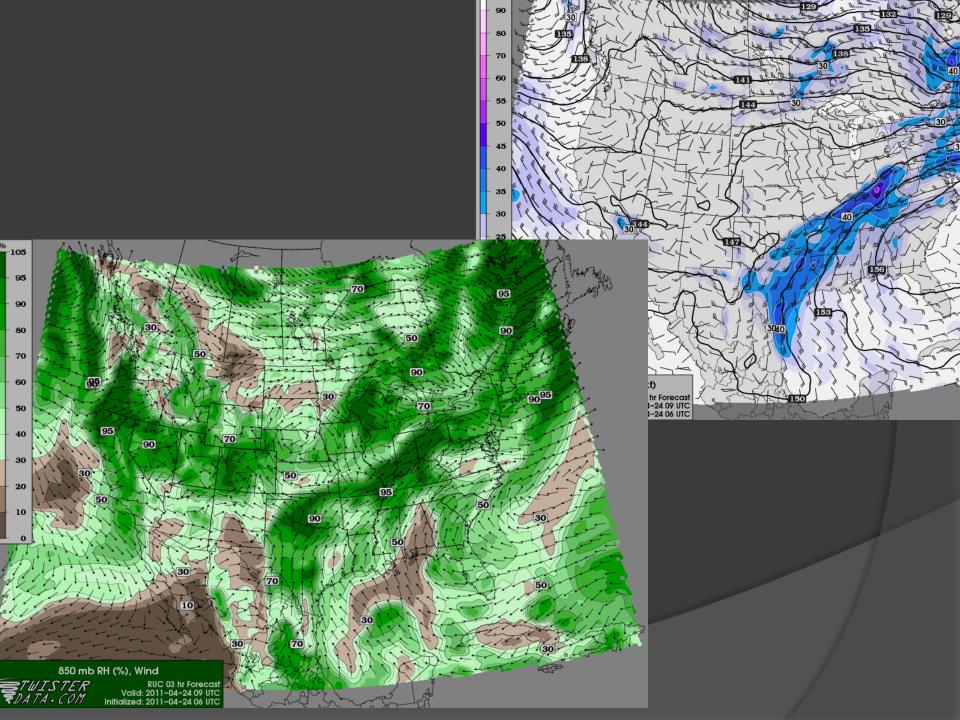


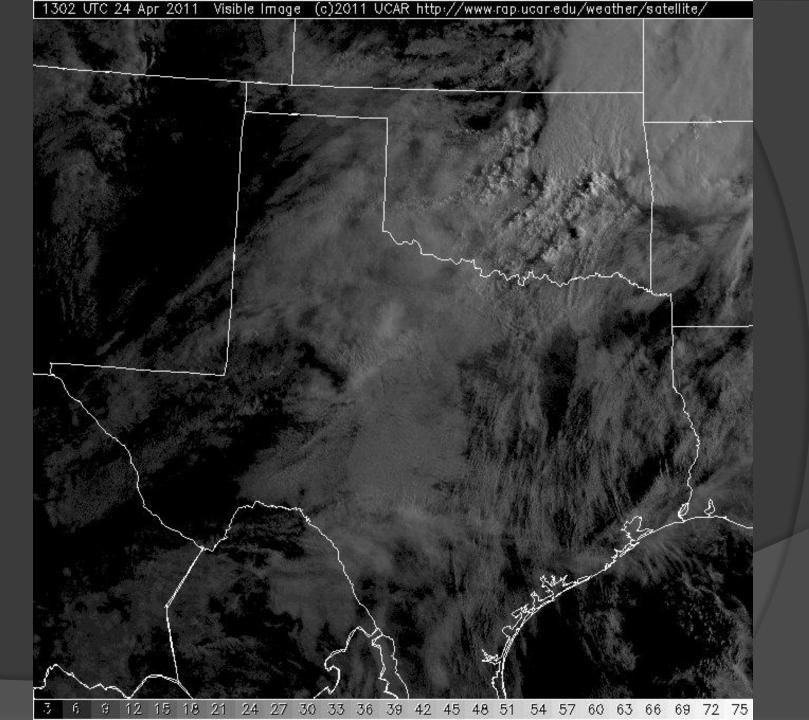




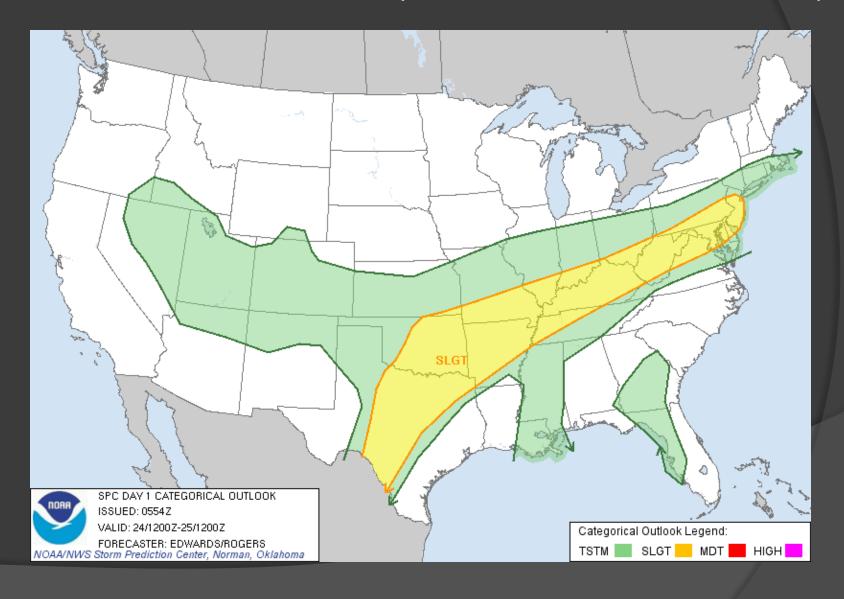








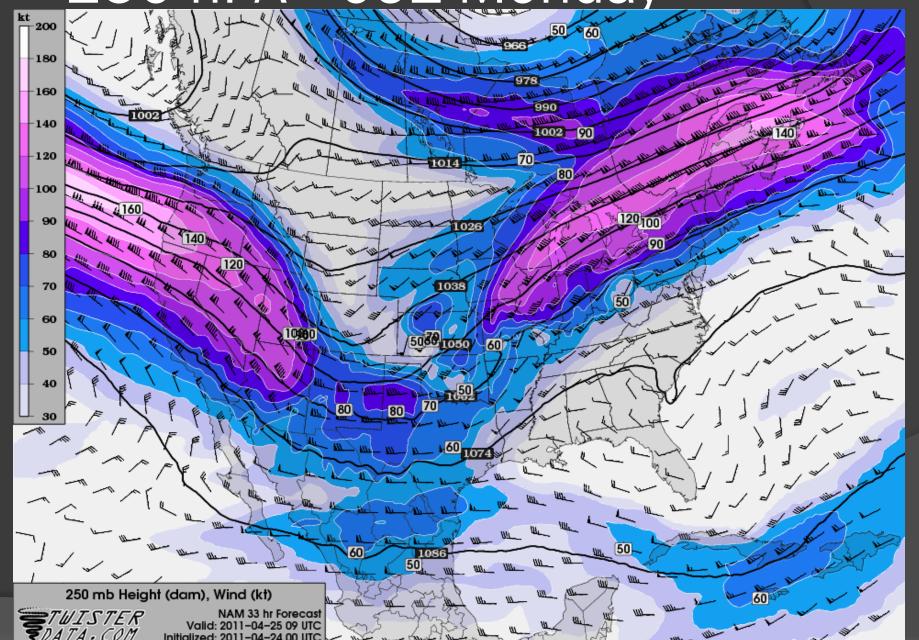
Convective Outlook (12Z Sun – 12Z Mon)



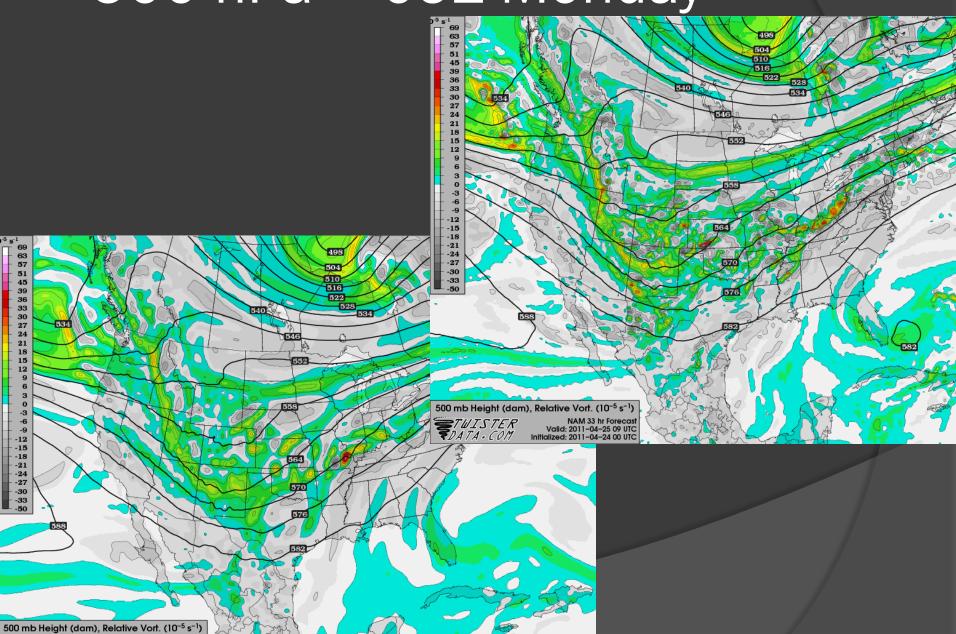
Model thoughts

- Both models are looking a bit more consistent, but still have some distinct differences for convective line formation tomorrow midday in eastern OK
- A bit more confidence in NAM given performance last night and better initialization at 00Z, though GFS had a slightly better grasp of lingering precipitation this morning
- Both are consistent in showing likely precipitation overnight akin to last night

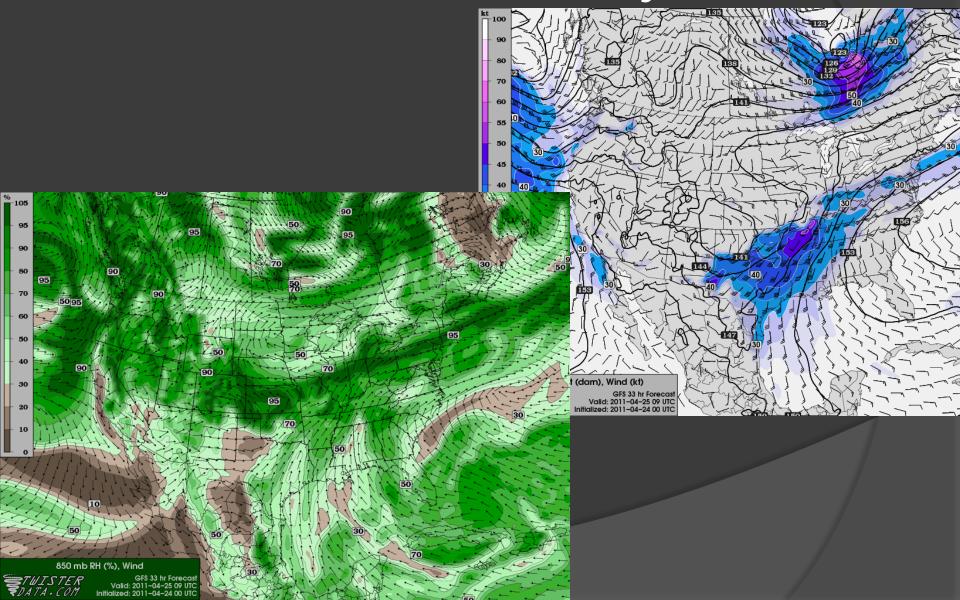
250 hPA- 09Z Monday



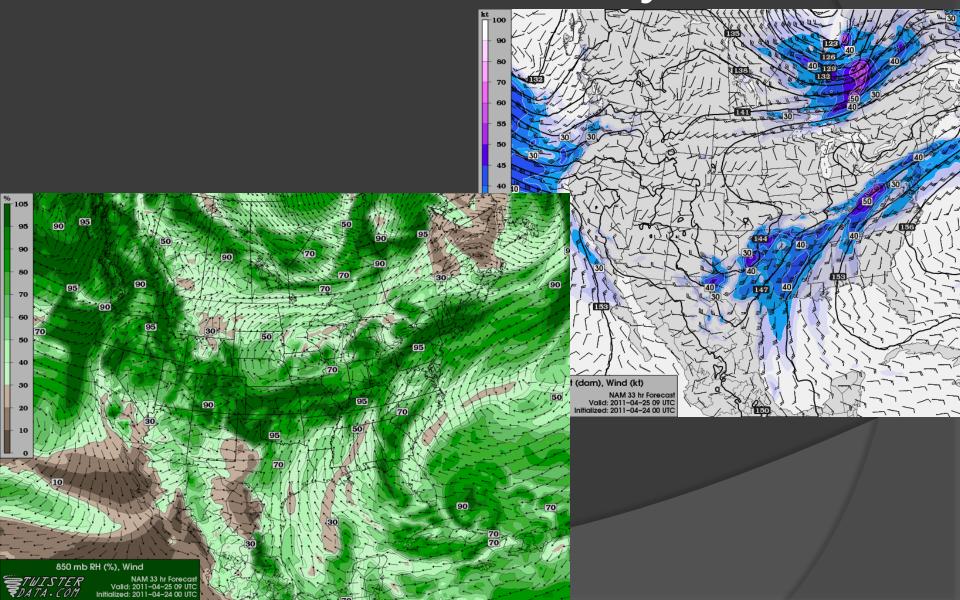
500 hPa - 09Z Monday



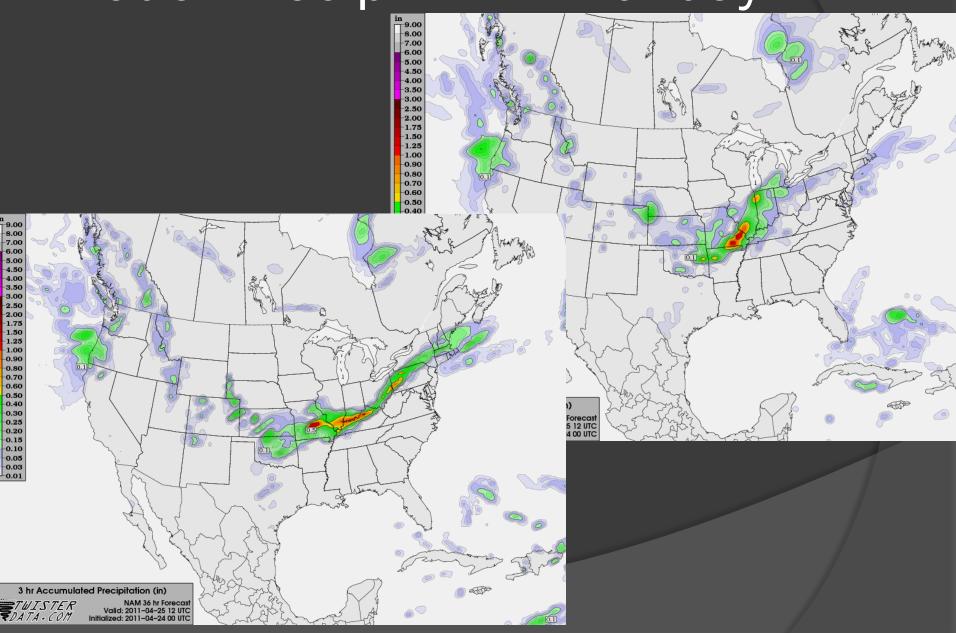
850 hPa - 09Z Monday GFS



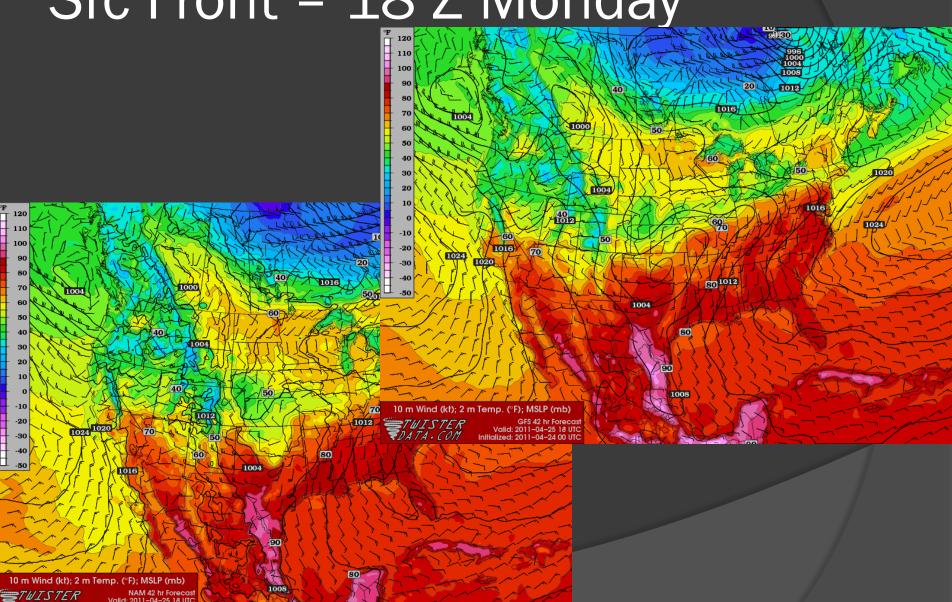
850 hPa - 09Z Monday NAM



Model Precip- 12Z Monday



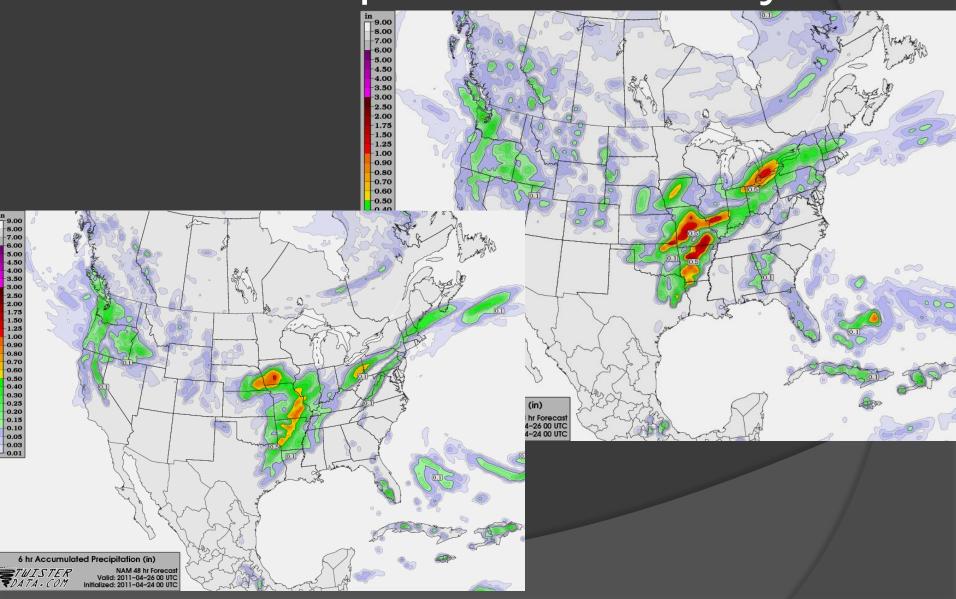
Sfc Front – 18 Z Monday



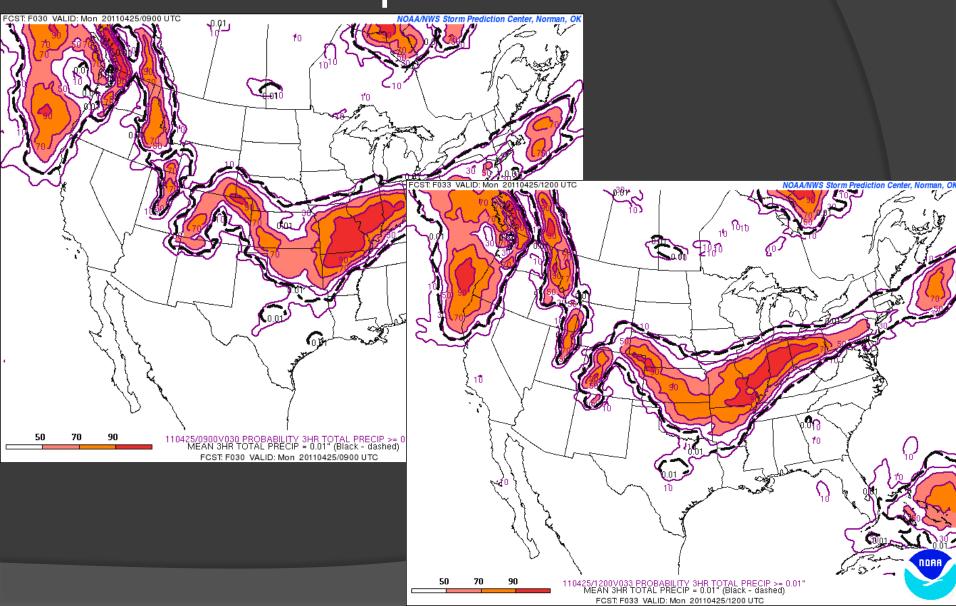
500 Vorticity – 18 Z Monday 57 27 -12 -15 -18 -21 -27 30 -30 27 -33 21 15 -15 500 mb Height (dam), Relative Vort. (10^{-5} s⁻¹) -21 -27 Valid: 2011-04-25 18 UTC Initialized: 2011-04-24 00 UTC 500 mb Height (dam), Relative Vort. ($10^{-5} \, s^{-1}$)

Model Precip – 18Z Monday in 9.00 8.00 7.00 0.70 0.60 7.00 -2.50 -2.00 -1.75 -1.50 -1.25 -1.00 0.90 0.80 0.70 -0.50 n (in) -0.40 42 hr Forecast -0.30 0.25 0.05 0.03 3 hr Accumulated Precipitation (in)

Model Precip – 00Z Tuesday



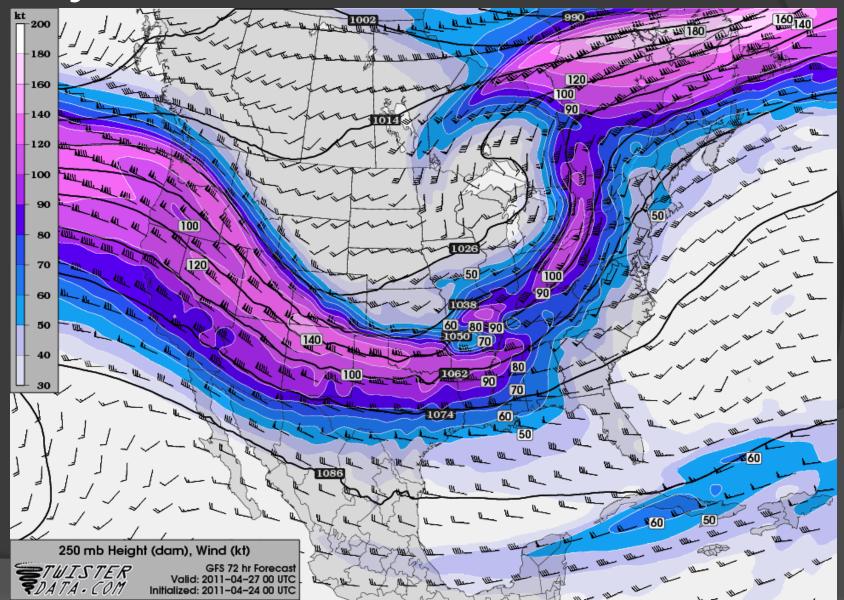
SREF > 0.01 probabilities



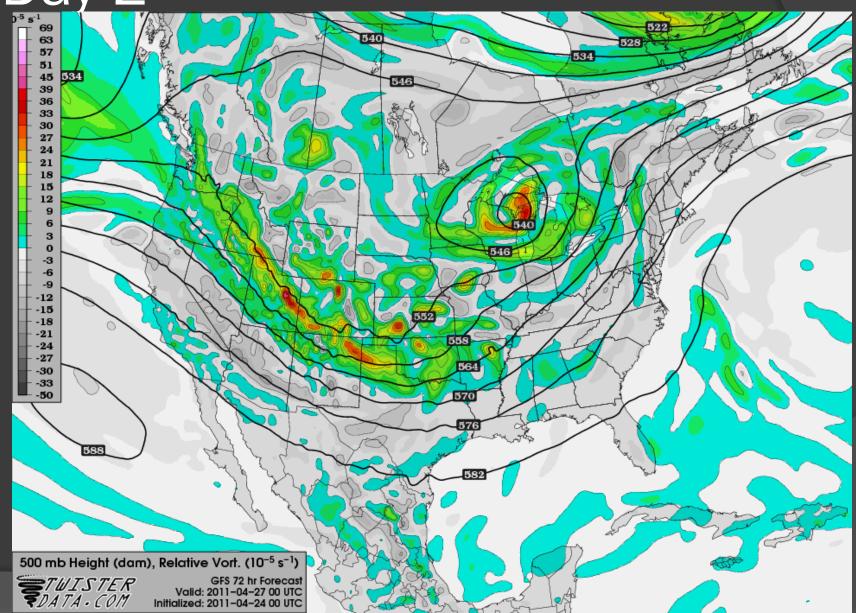
Day 0/1 Recap

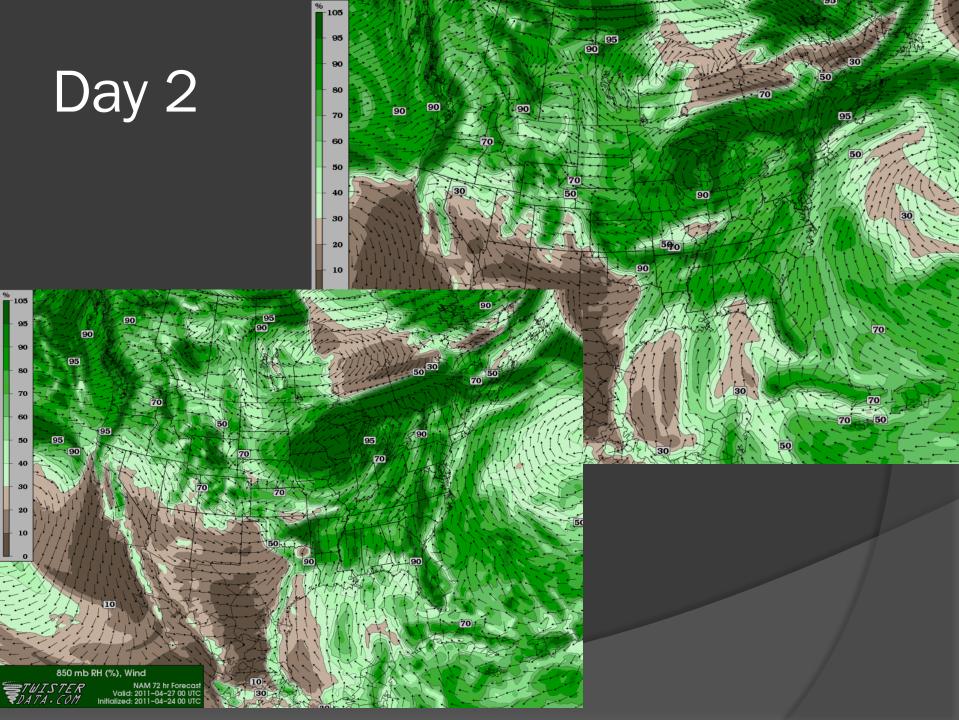
- LL Jet looks likely to re-form behind convective front akin to last night
- Expecting precipitation formation in SGP array beginning around 09 UTC
- Keep eyes open for storms near Purcell, Morris sounding sites late afternoon into overnight
- Expected Precip: elevated convection, potentially slightly weaker than last night (good for 12 UTC run update given yesterday)
- Precipitation likely pushing NE and out of instrument array around 17 UTC (going with NAM on this one)

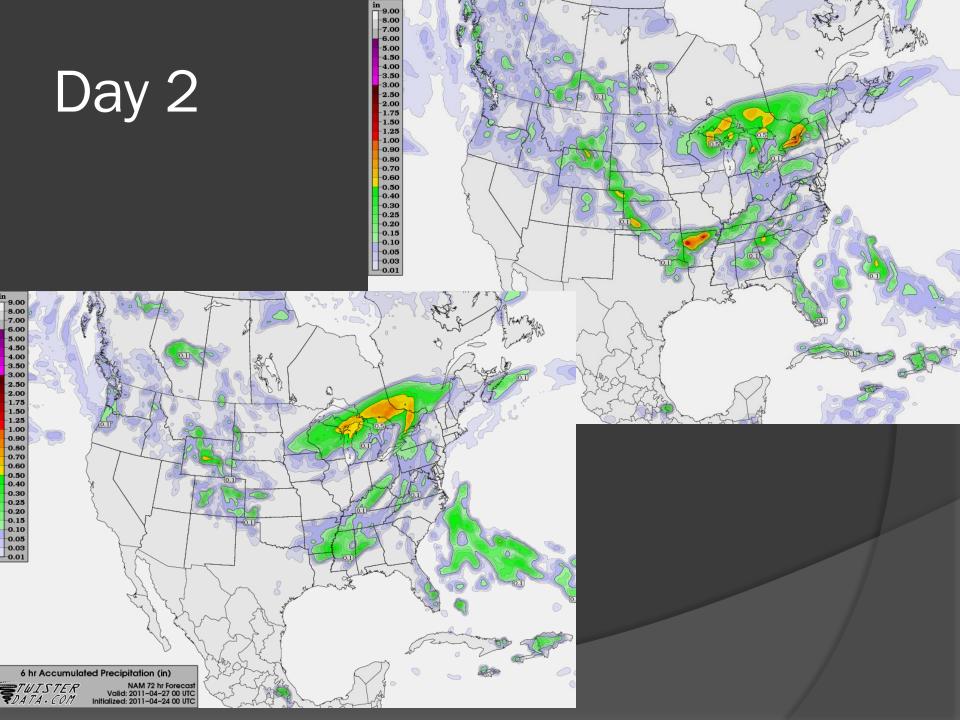
Day 2



Day 2

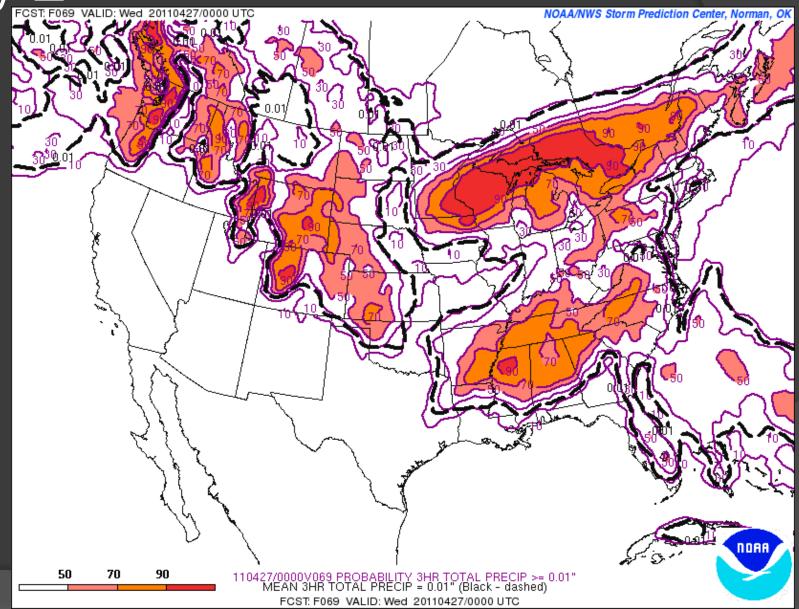






Day 2

FCST: F069 VALID: Wed 20110427/0000 UTC



Day 3+

 Looking like a dry stretch through at least Friday

Recap

- Day 0/1:
 - LL jet building again overnight
 - Expecting precipitation to form N of front, pushing into SGP around 9UTC +/- 2 hrs (will finalize with afternoon updates), continuing through until ~16-18UTC before pulling NE
 - Going with a NAM-favoured forecast
- Day 2:
 - Further chance of post-frontal precipitation
 - Good forcing aloft, though questions of available moisture
- Day 3+:
 - Looking dry through Friday