

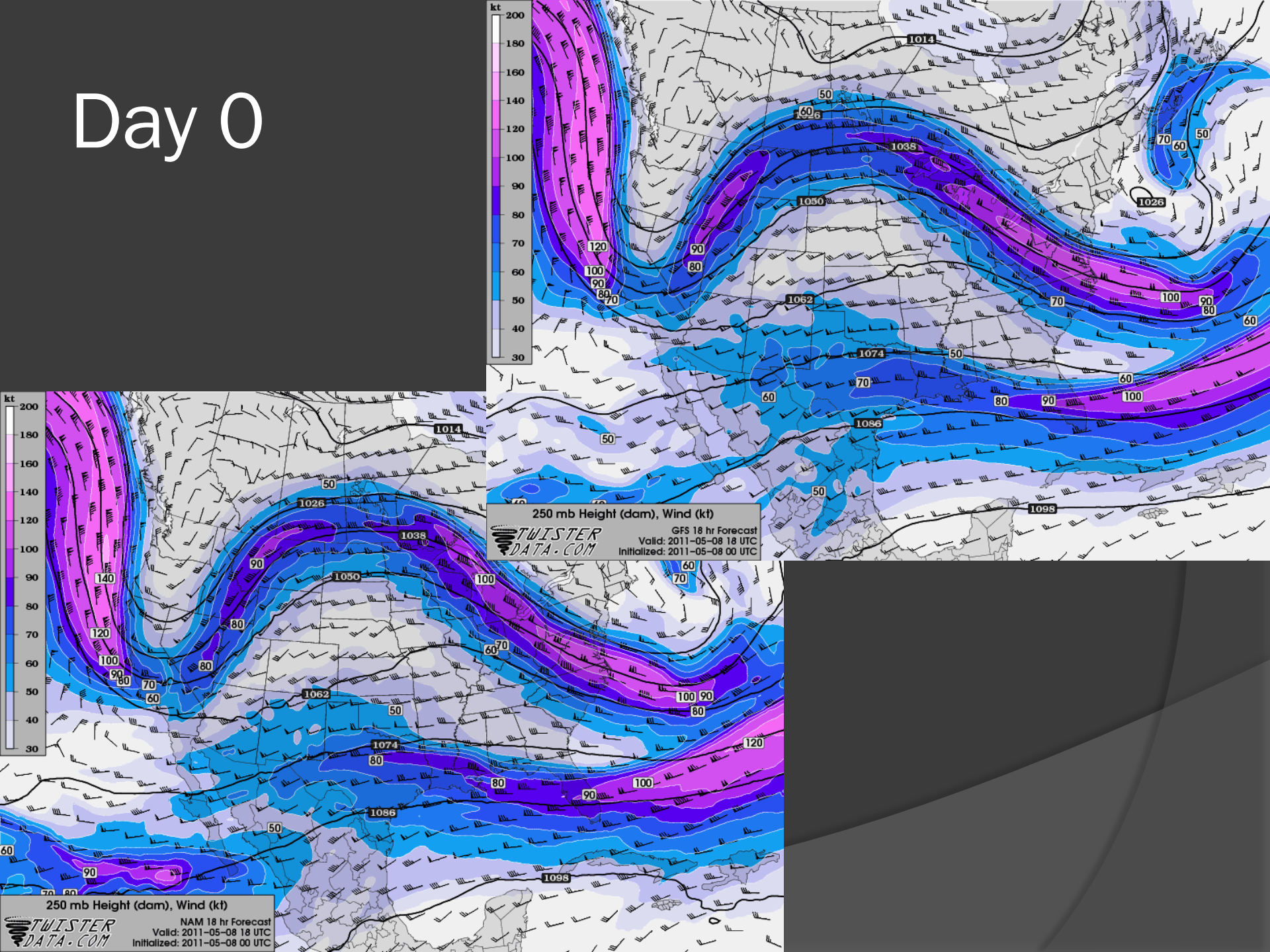
Friday April 29, 2011

# MC3E WEATHER BRIEFING

# Observations Tour

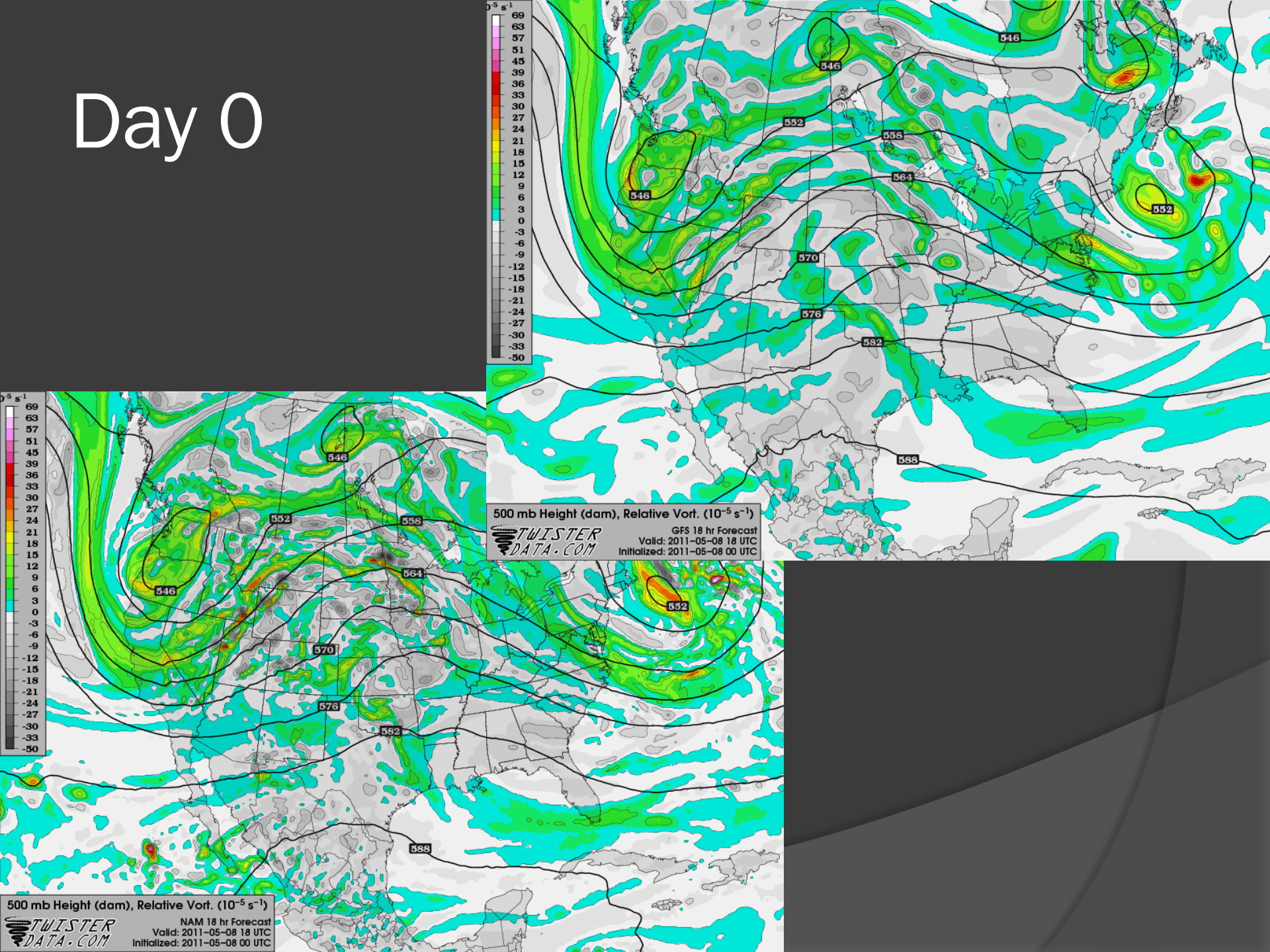
<http://www.rap.ucar.edu/weather/satellite/>

# Day 0



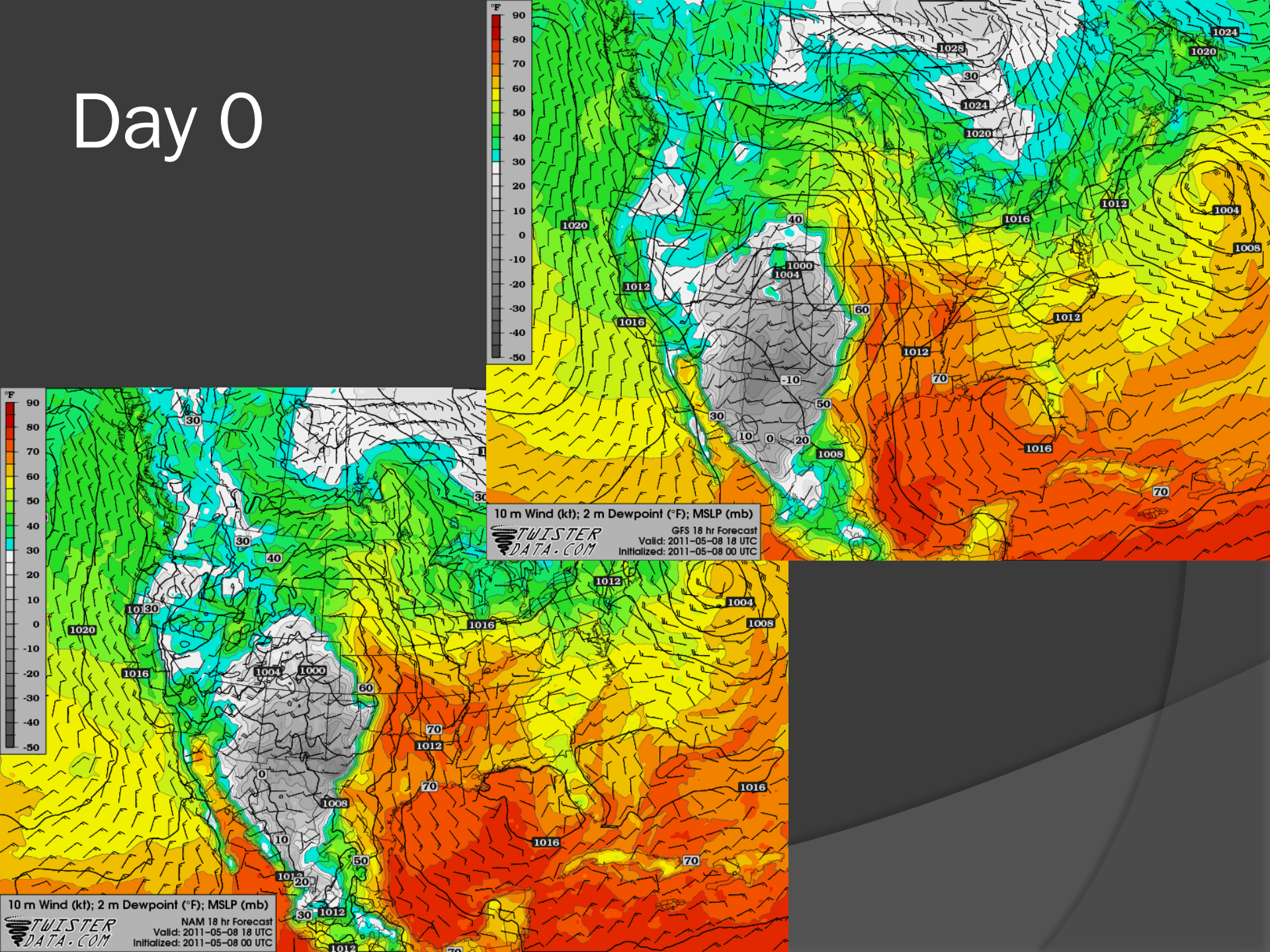


# Day 0



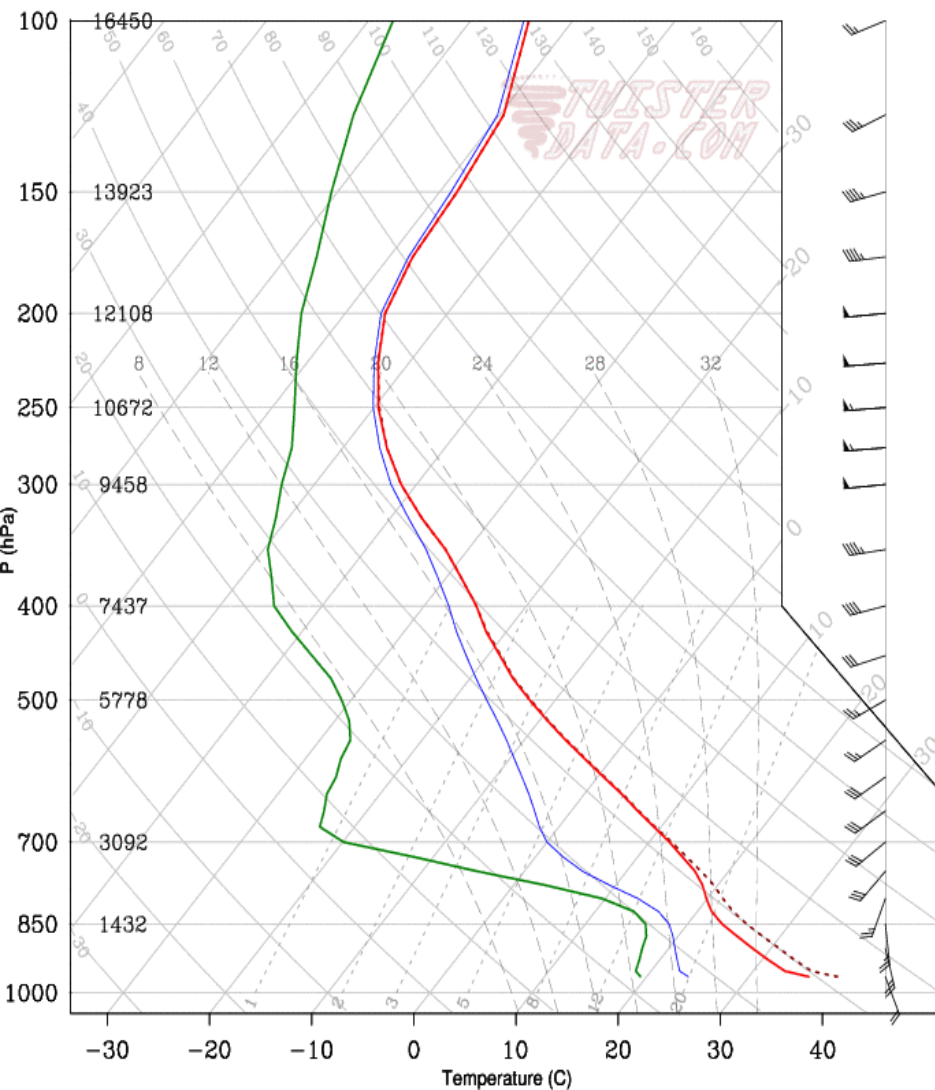


# Day 0

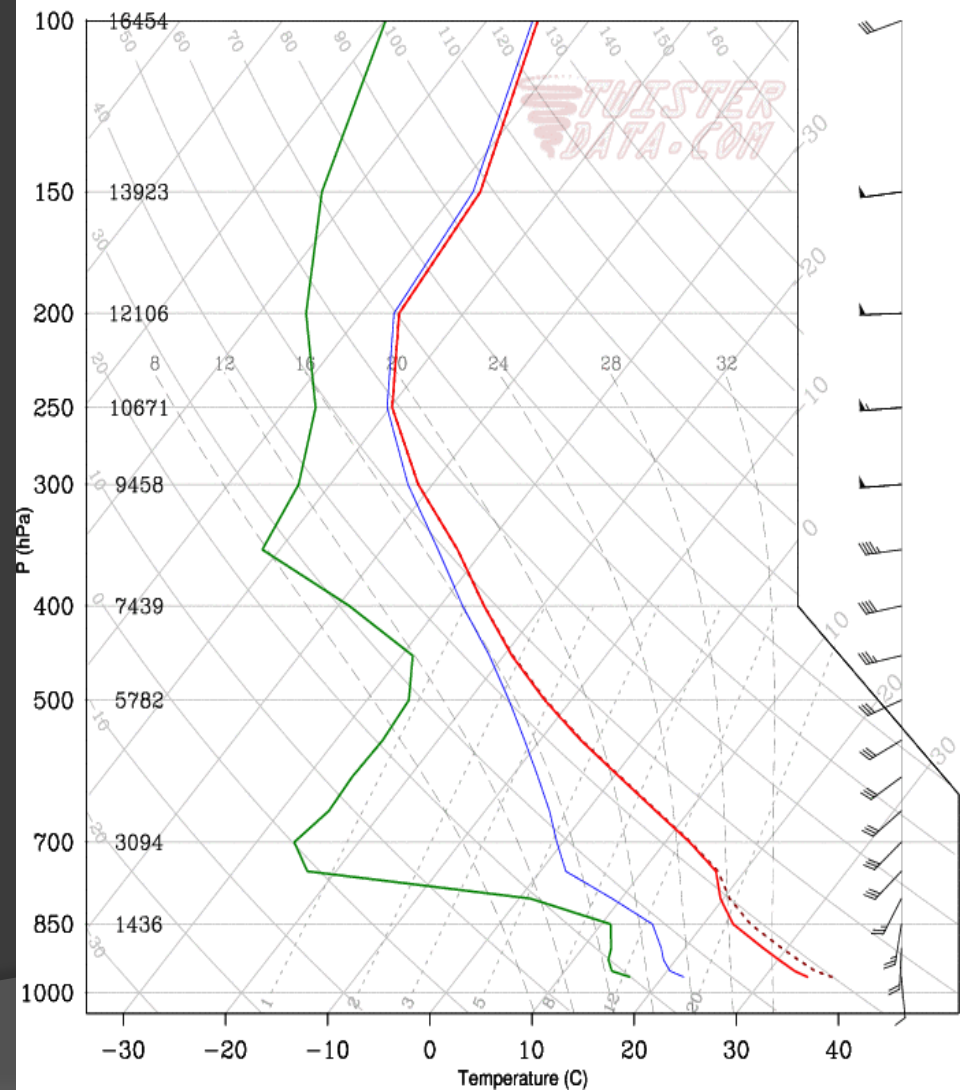


# Day 0

NAM Sounding | 21 UTC Sun 08 May 2011 | Lat 36.4897 | Lon -97.4913

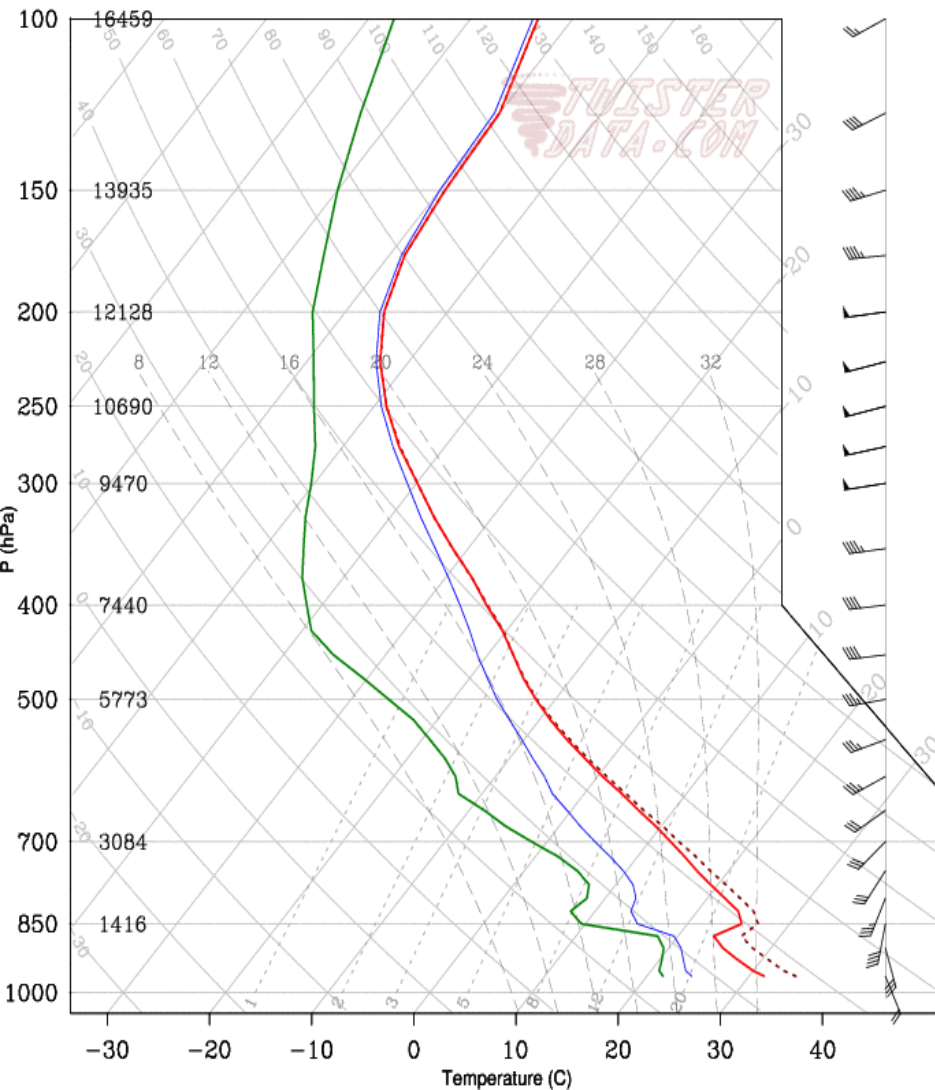


GFS Sounding | 21 UTC Sun 08 May 2011 | Lat 36.5000 | Lon -97.5000

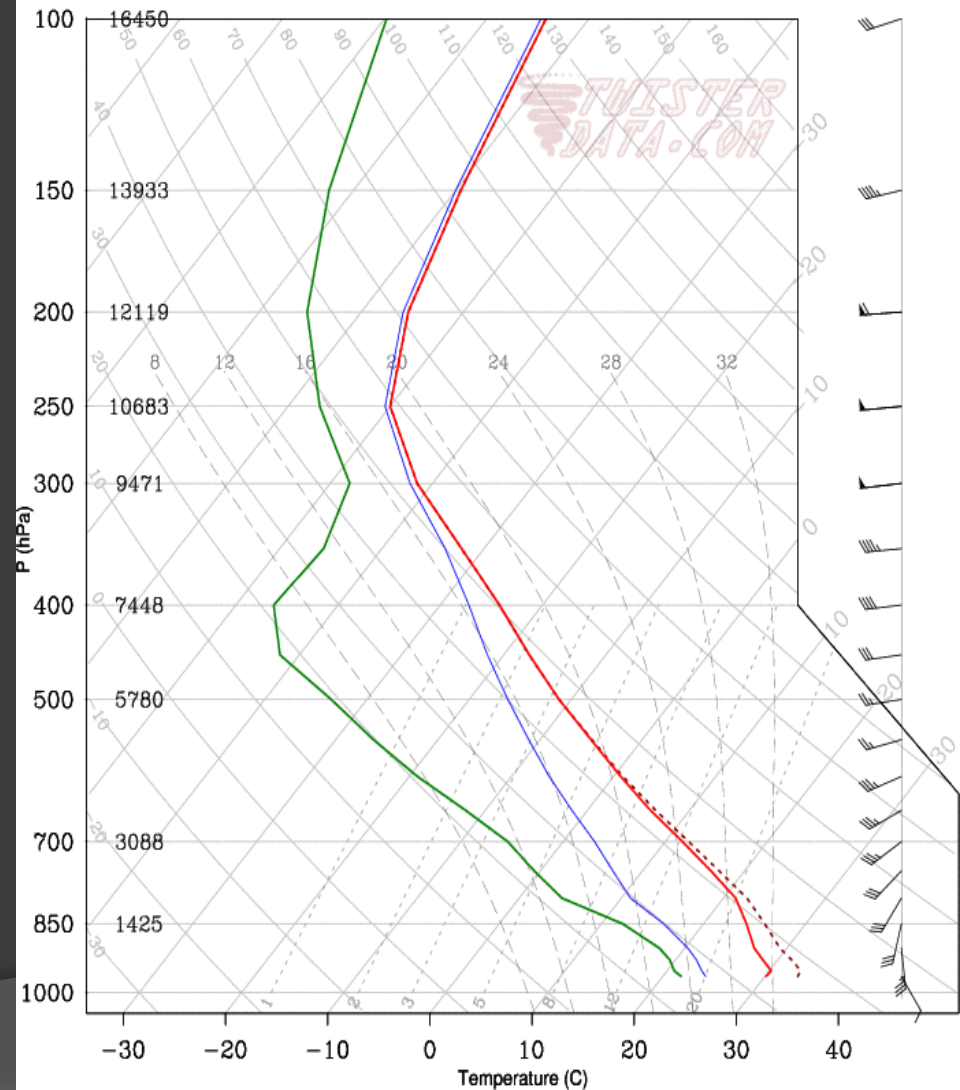


# Day 0

NAM Sounding | 00 UTC Mon 09 May 2011 | Lat 36.4897 | Lon -97.4913

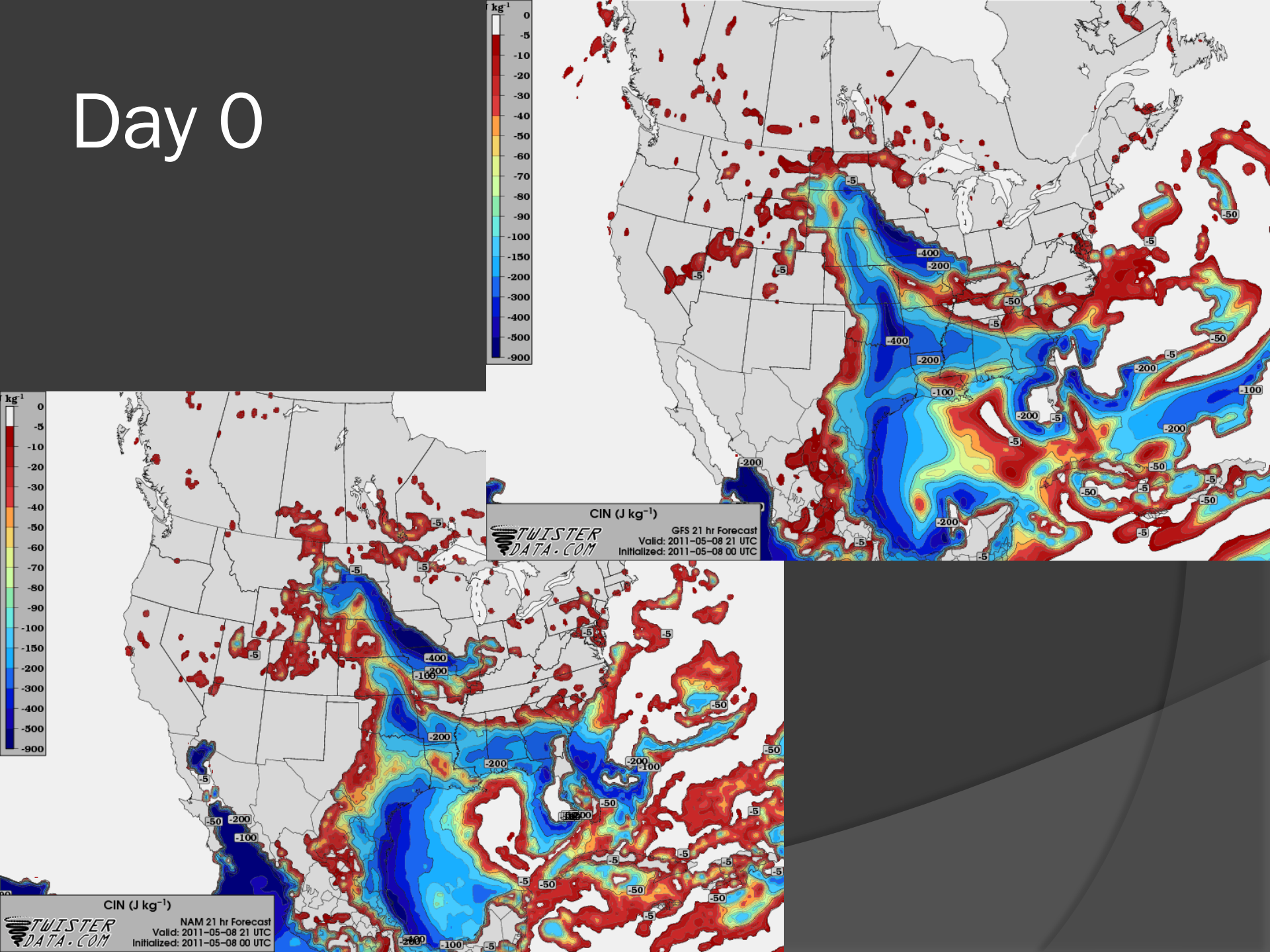


GFS Sounding | 00 UTC Mon 09 May 2011 | Lat 36.5000 | Lon -97.5000

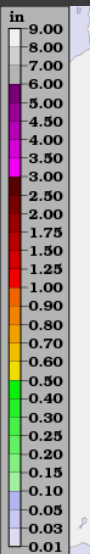
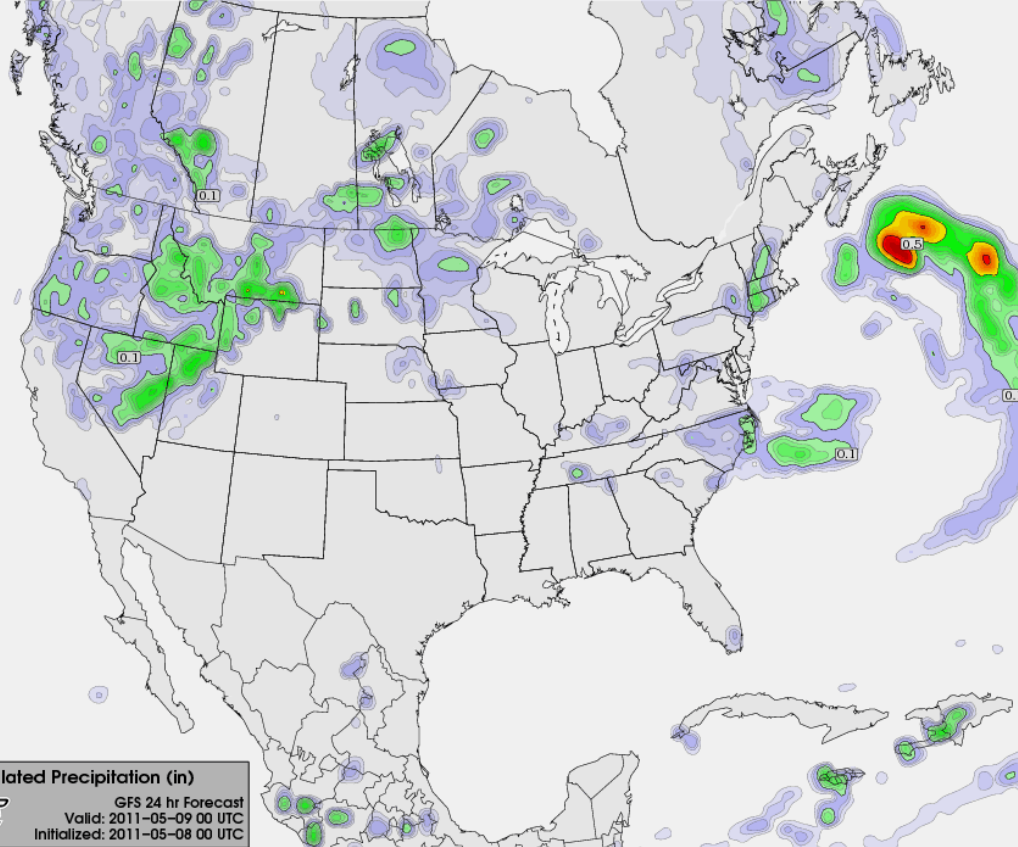
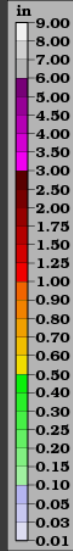




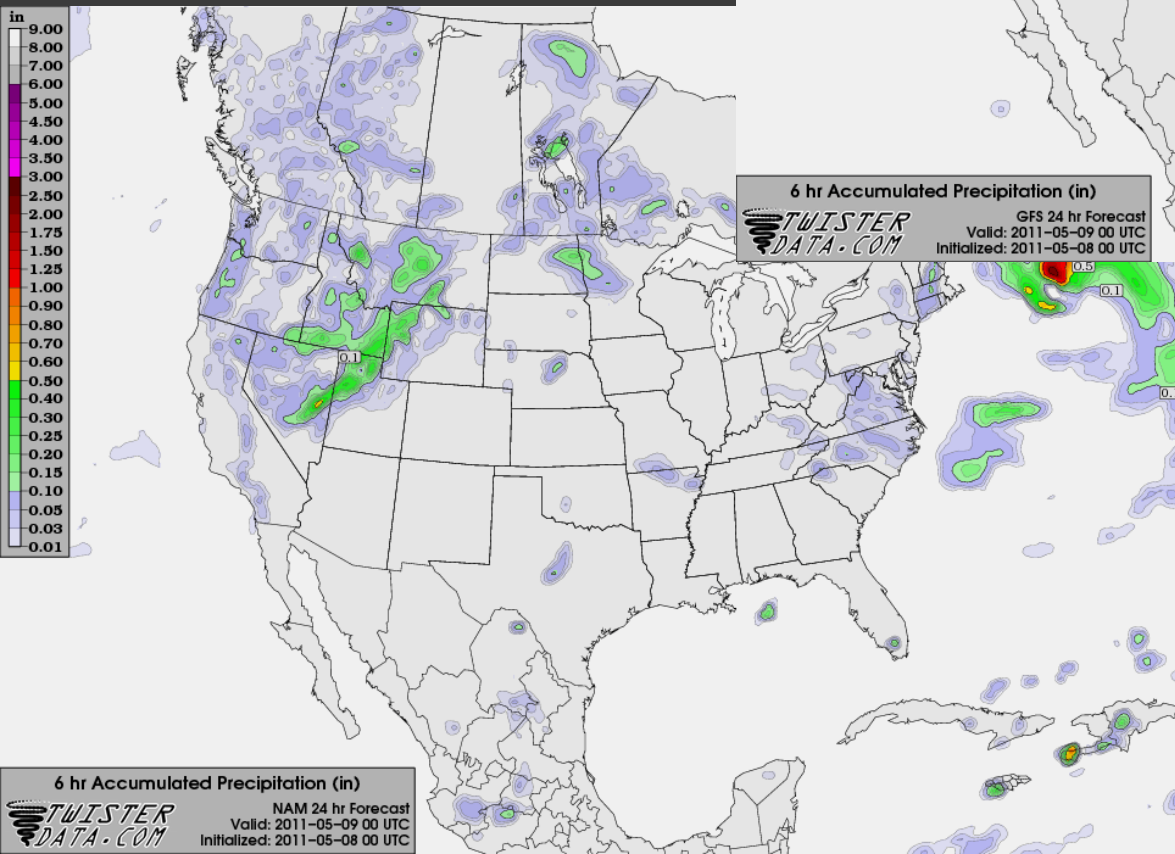
# Day 0



# Day 0

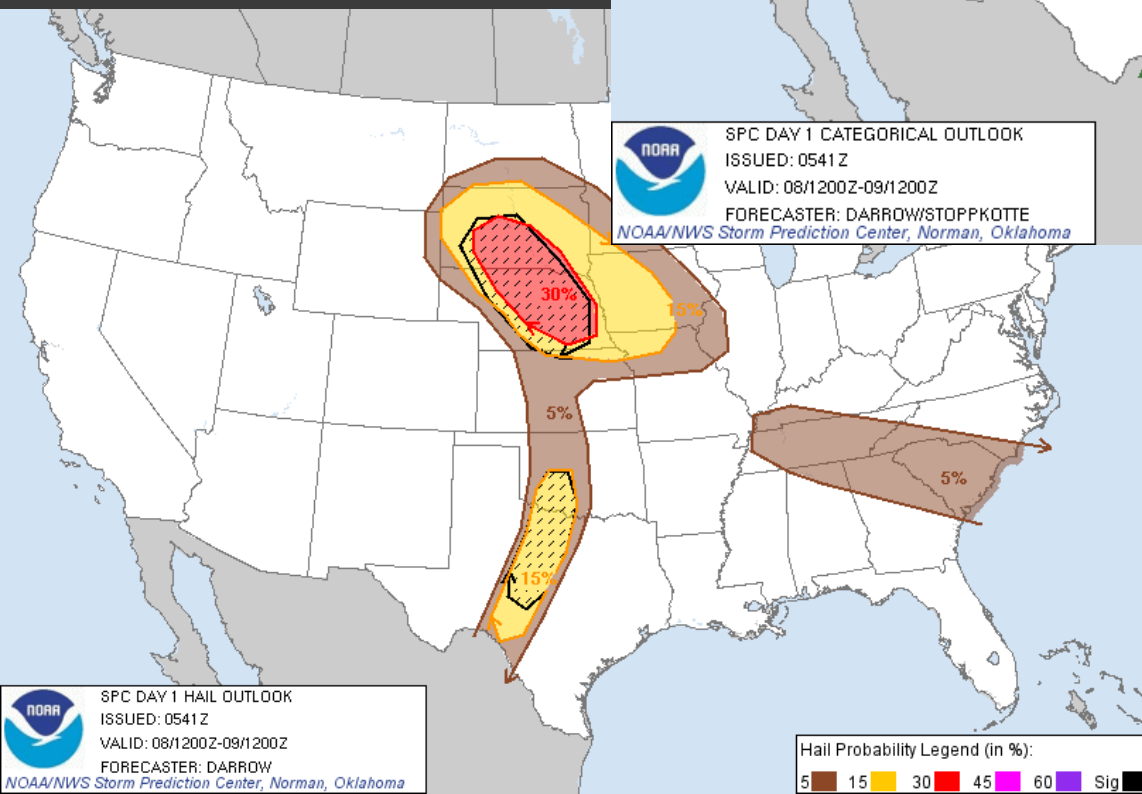
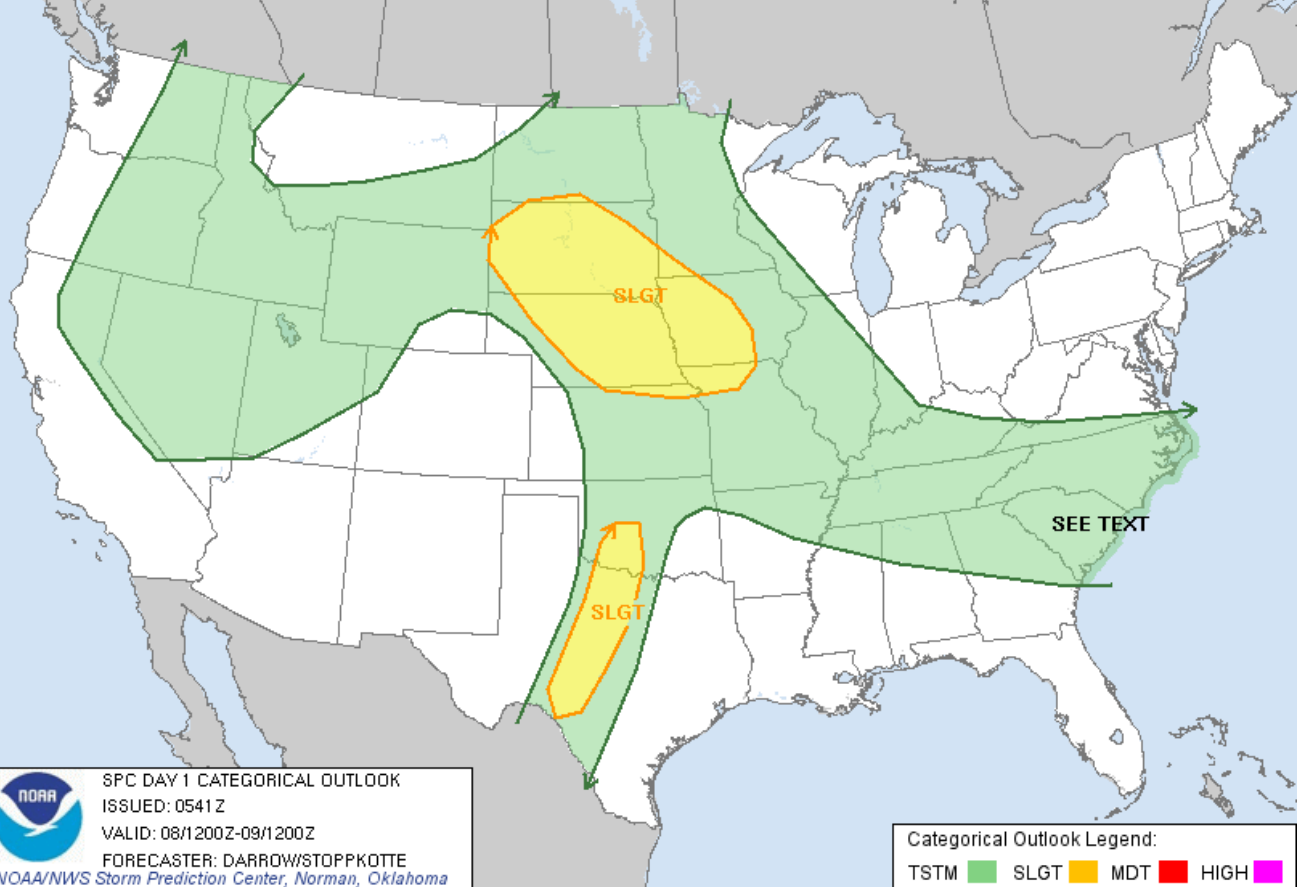


6 hr Accumulated Precipitation (in)  
TWISTER  
DATA.COM  
GFS 24 hr Forecast  
Valid: 2011-05-09 00 UTC  
Initialized: 2011-05-08 00 UTC



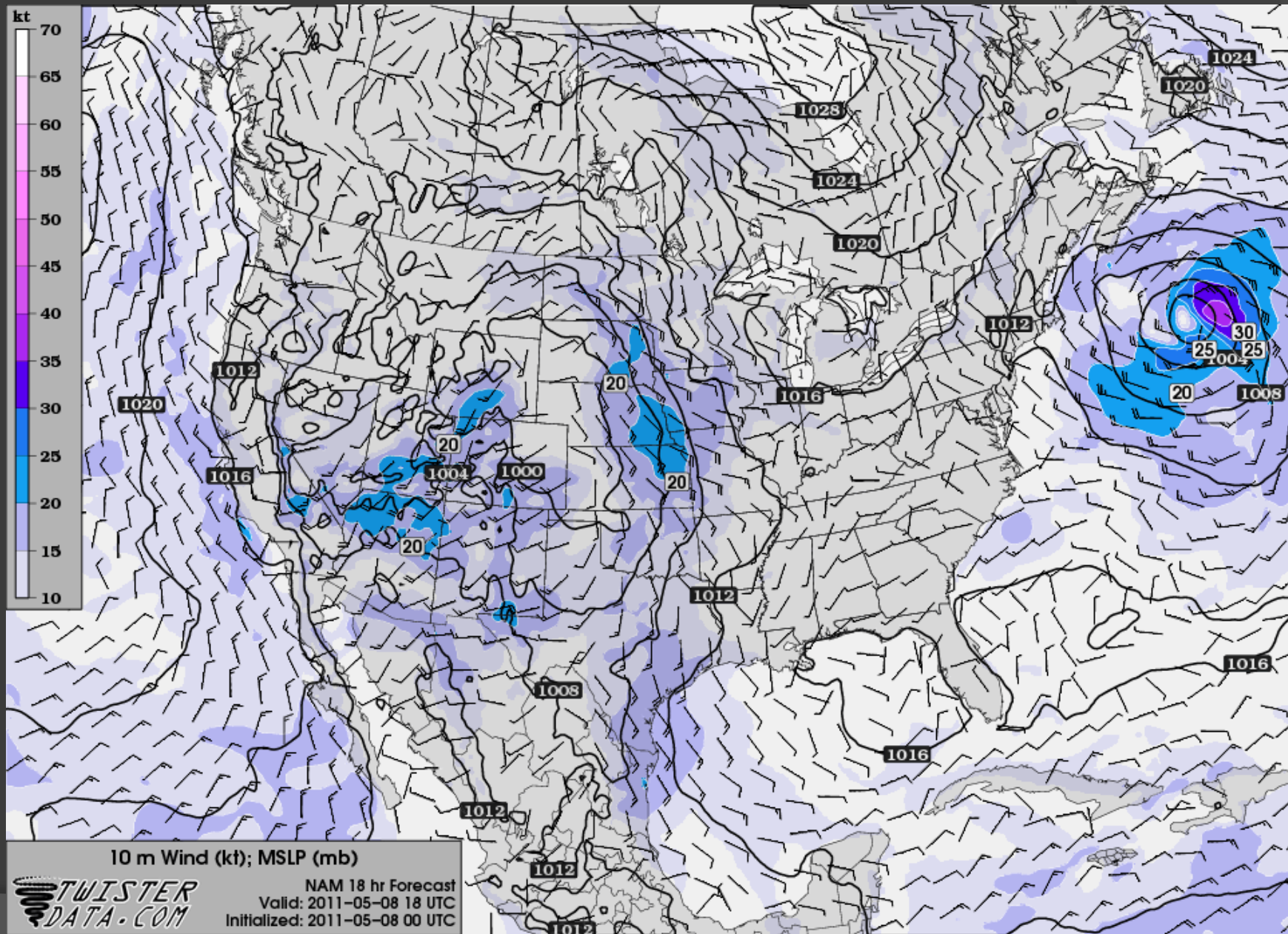
6 hr Accumulated Precipitation (in)  
TWISTER  
DATA.COM  
NAM 24 hr Forecast  
Valid: 2011-05-09 00 UTC  
Initialized: 2011-05-08 00 UTC

# Day 0





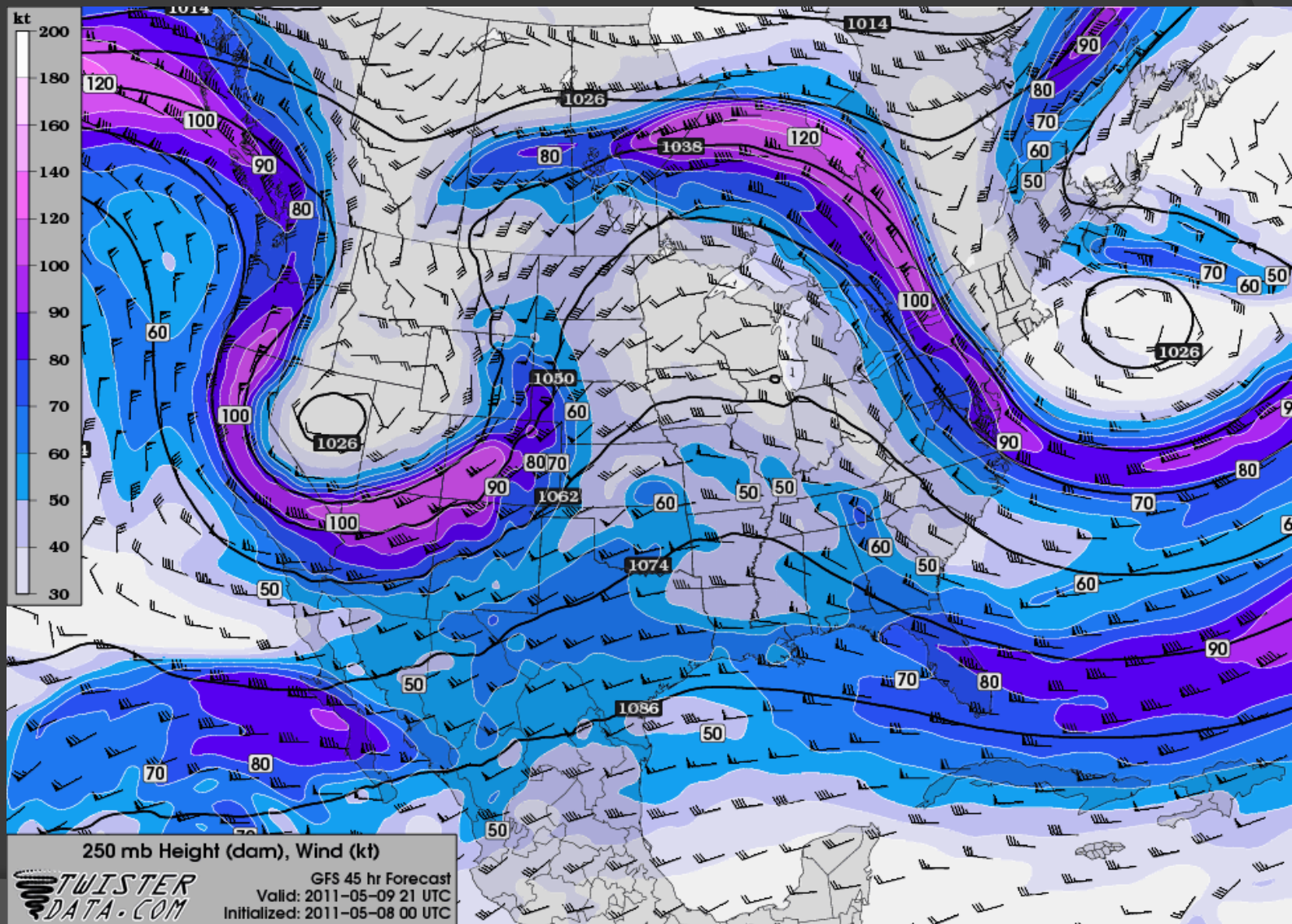
# Day 0



# Day 0 Recap

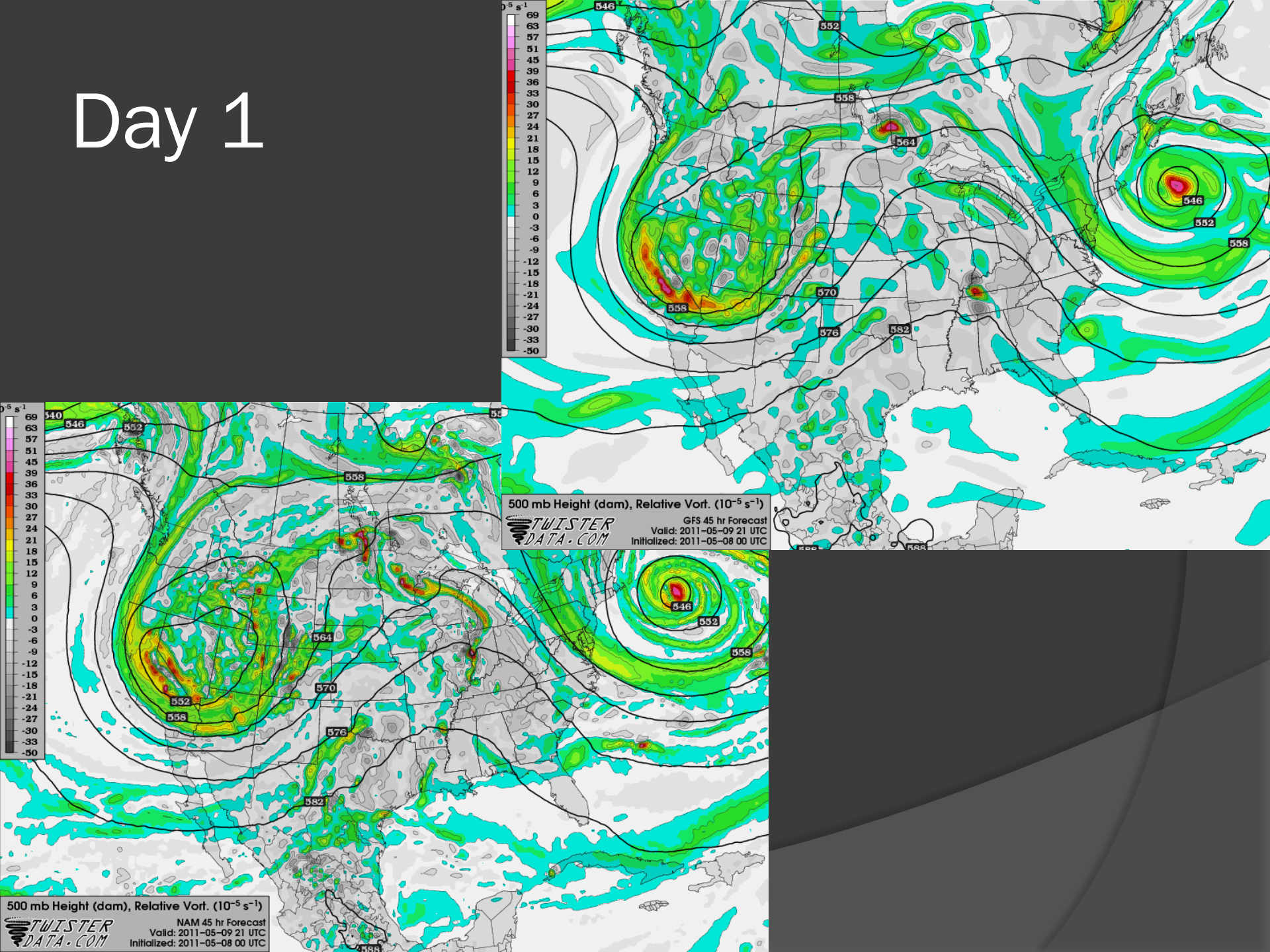
- If we get enough heating, we can initiate convection
- Both models appear to support no convection today
- 500 hPa pulse of vorticity looks to arrive 3 hours too early with regard to best convective hours
- Runway winds look strong (20+) but SE'rly channeling up the river

# Day 1



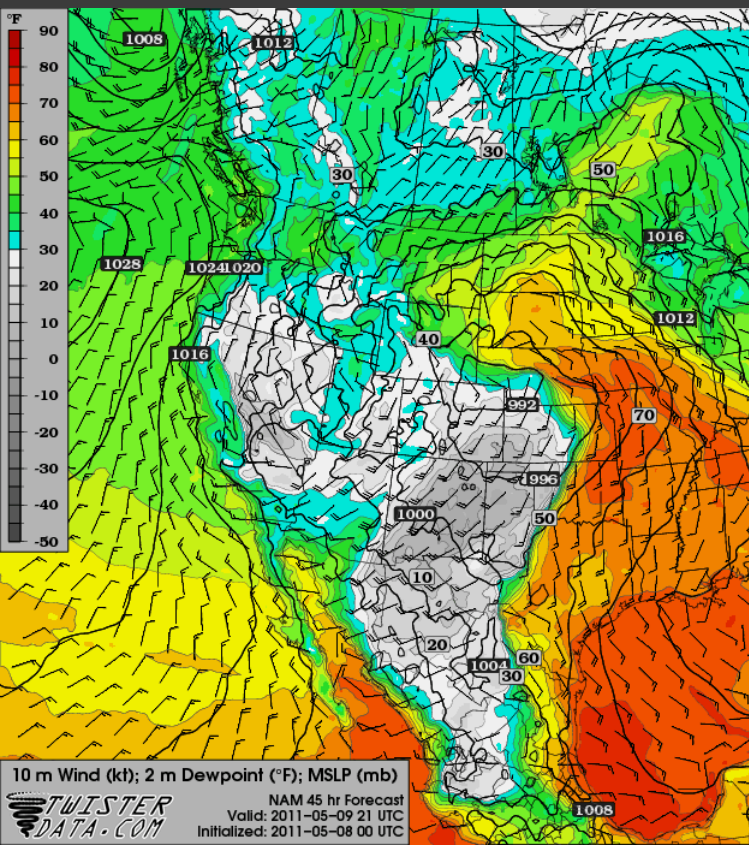
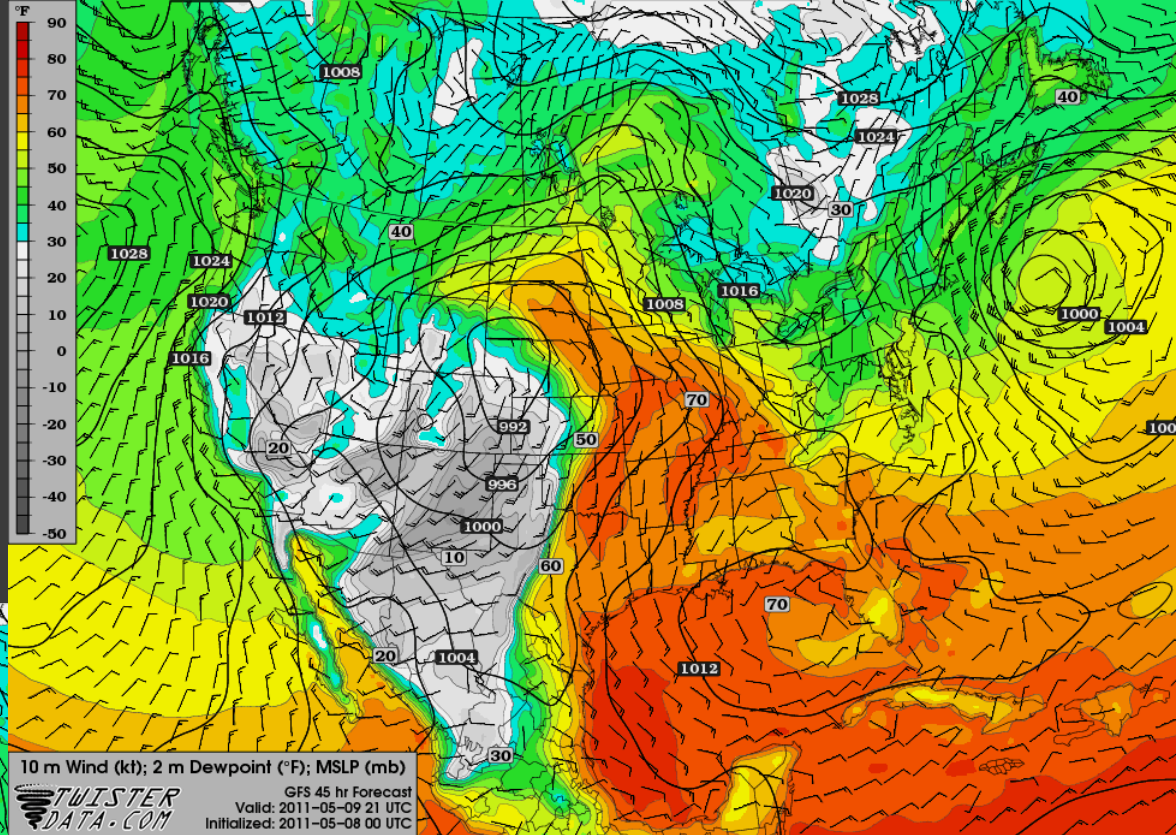


# Day 1

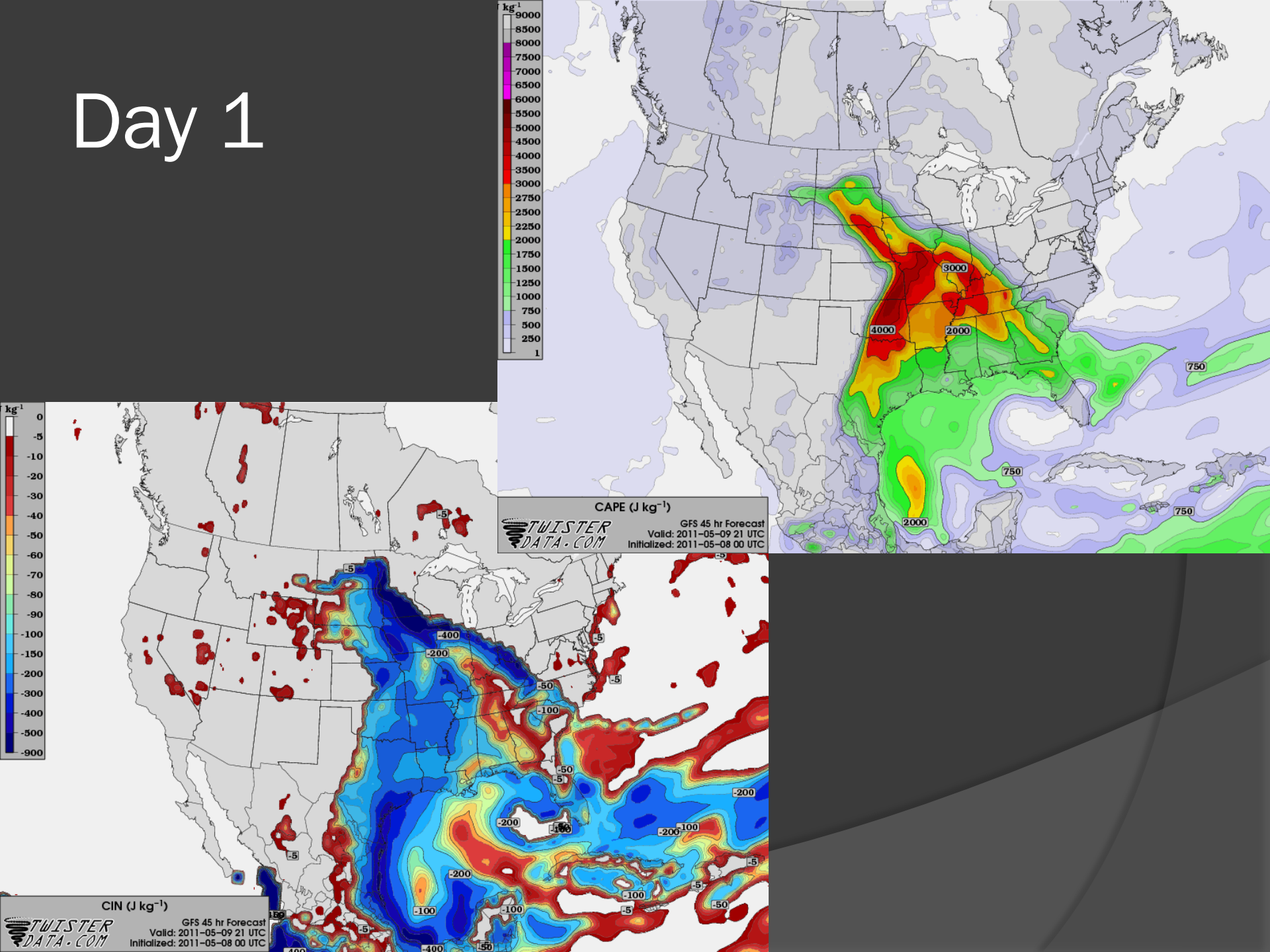




# Day 1



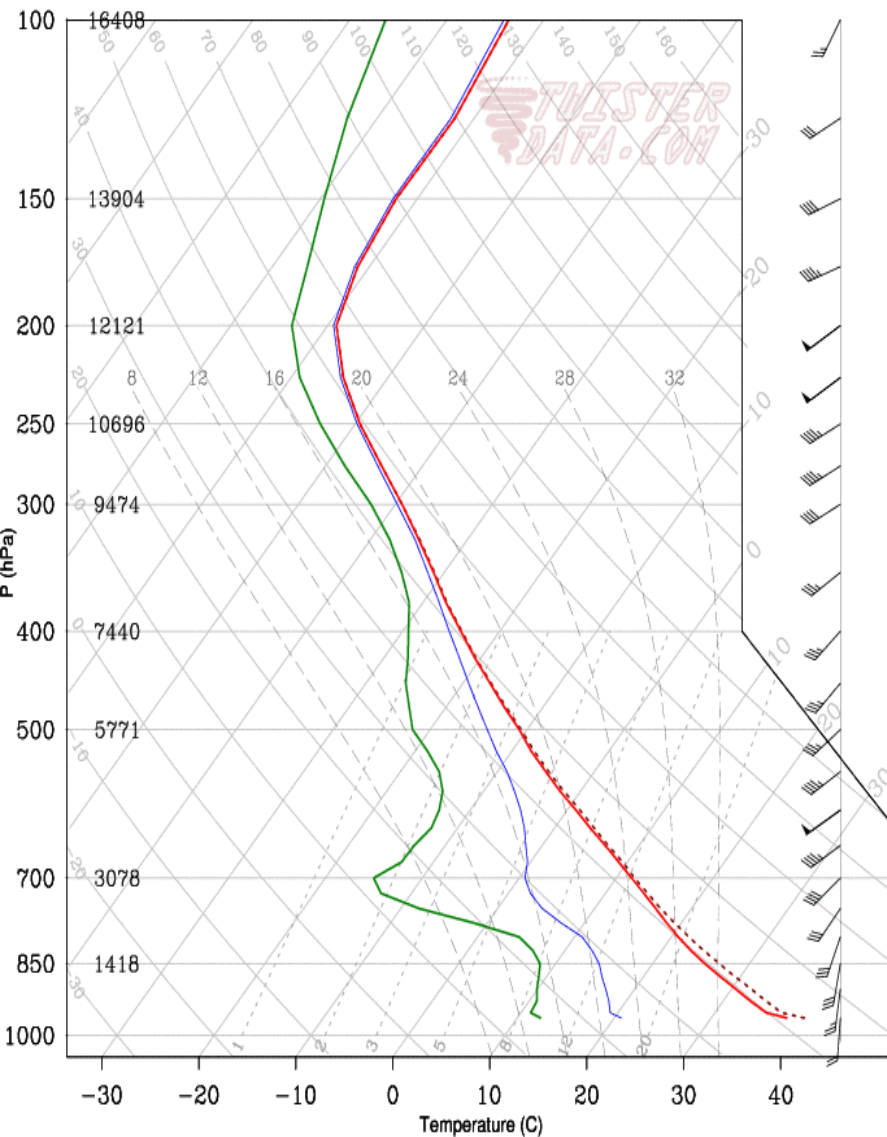
# Day 1



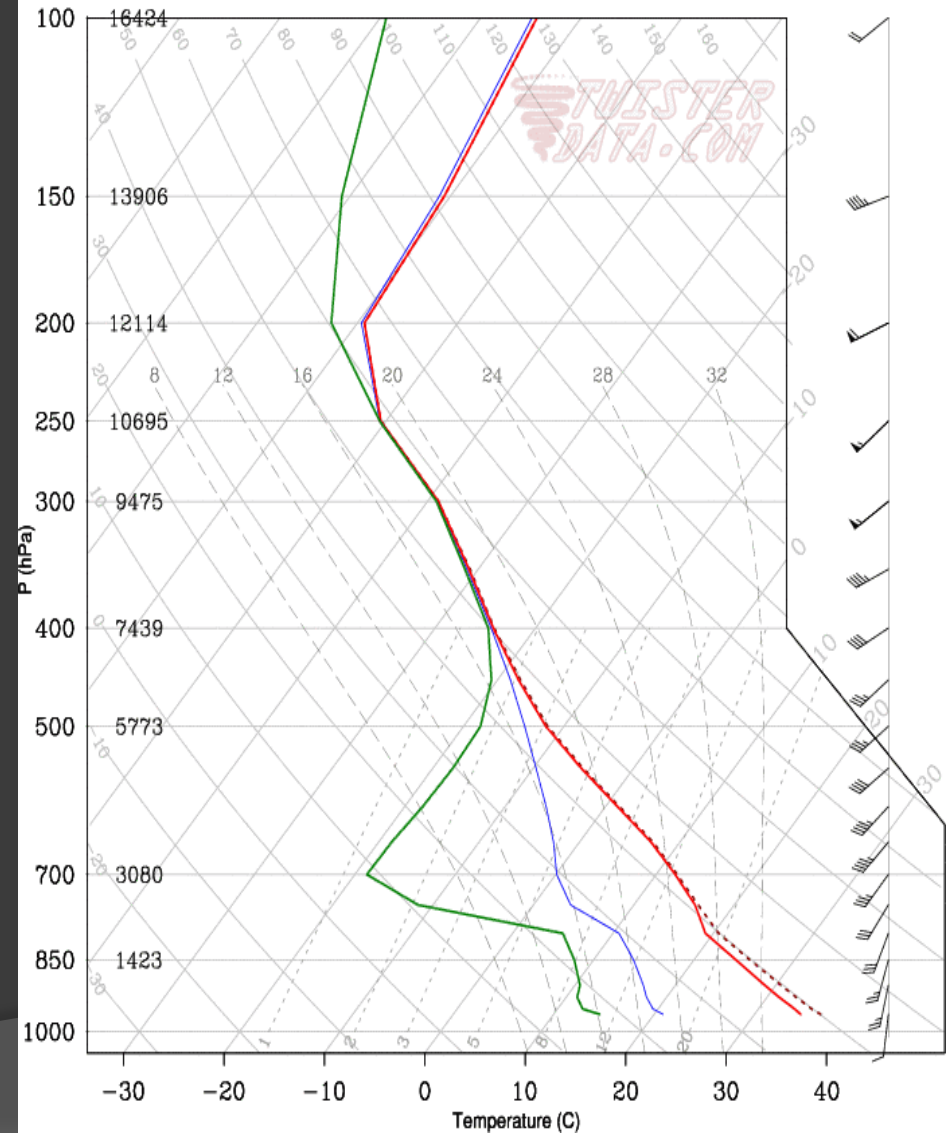


# Day 1

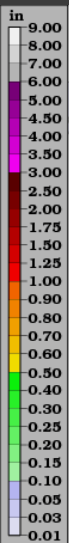
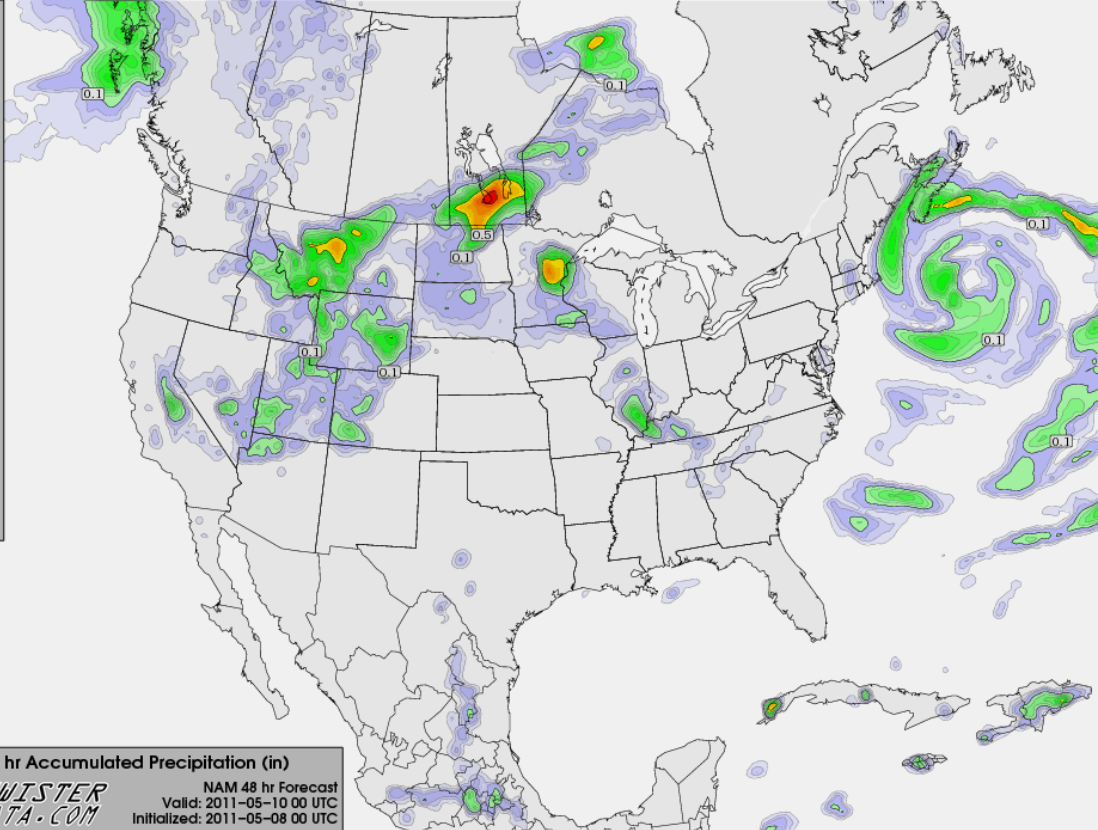
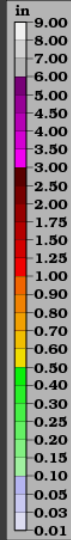
NAM Sounding | 21 UTC Mon 09 May 2011 | Lat 36.4897 | Lon -97.4913



GFS Sounding | 21 UTC Mon 09 May 2011 | Lat 36.5000 | Lon -97.5000



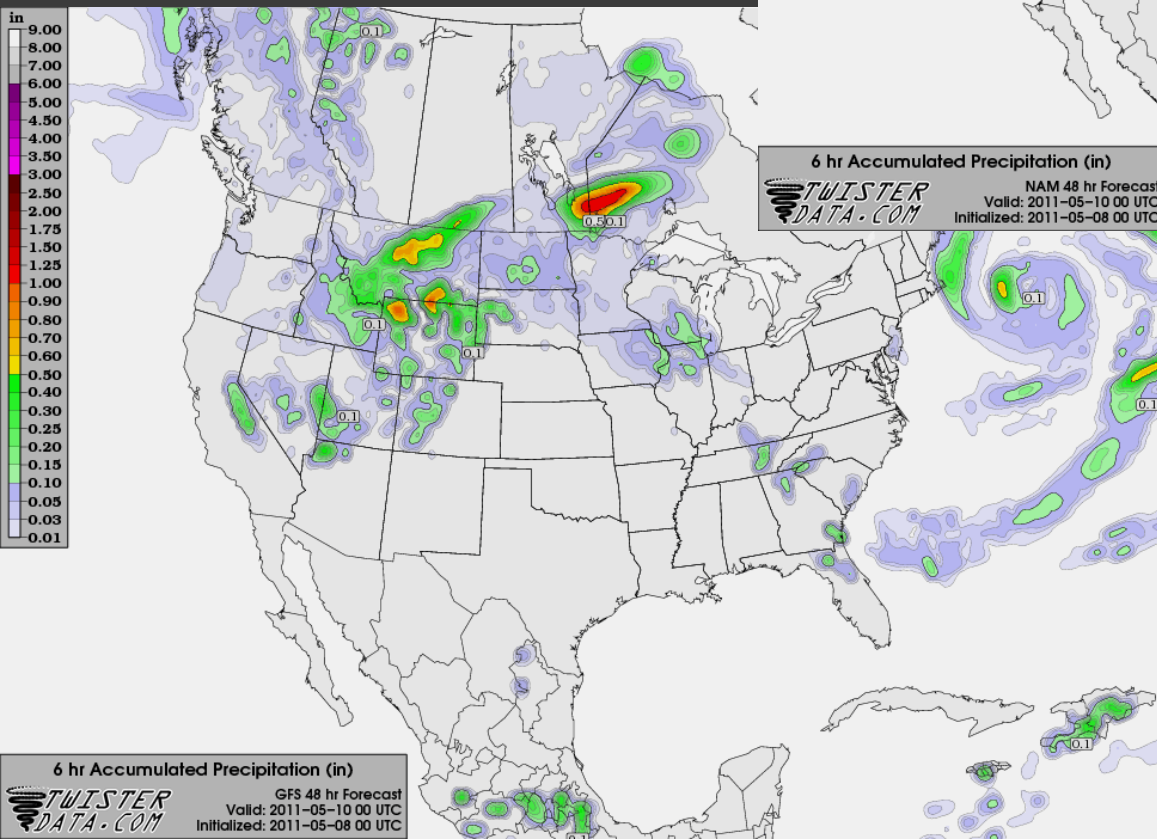
# Day 1



6 hr Accumulated Precipitation (in)

**TWISTER**  
DATA.COM

NAM 48 hr Forecast  
Valid: 2011-05-10 00 UTC  
Initialized: 2011-05-08 00 UTC

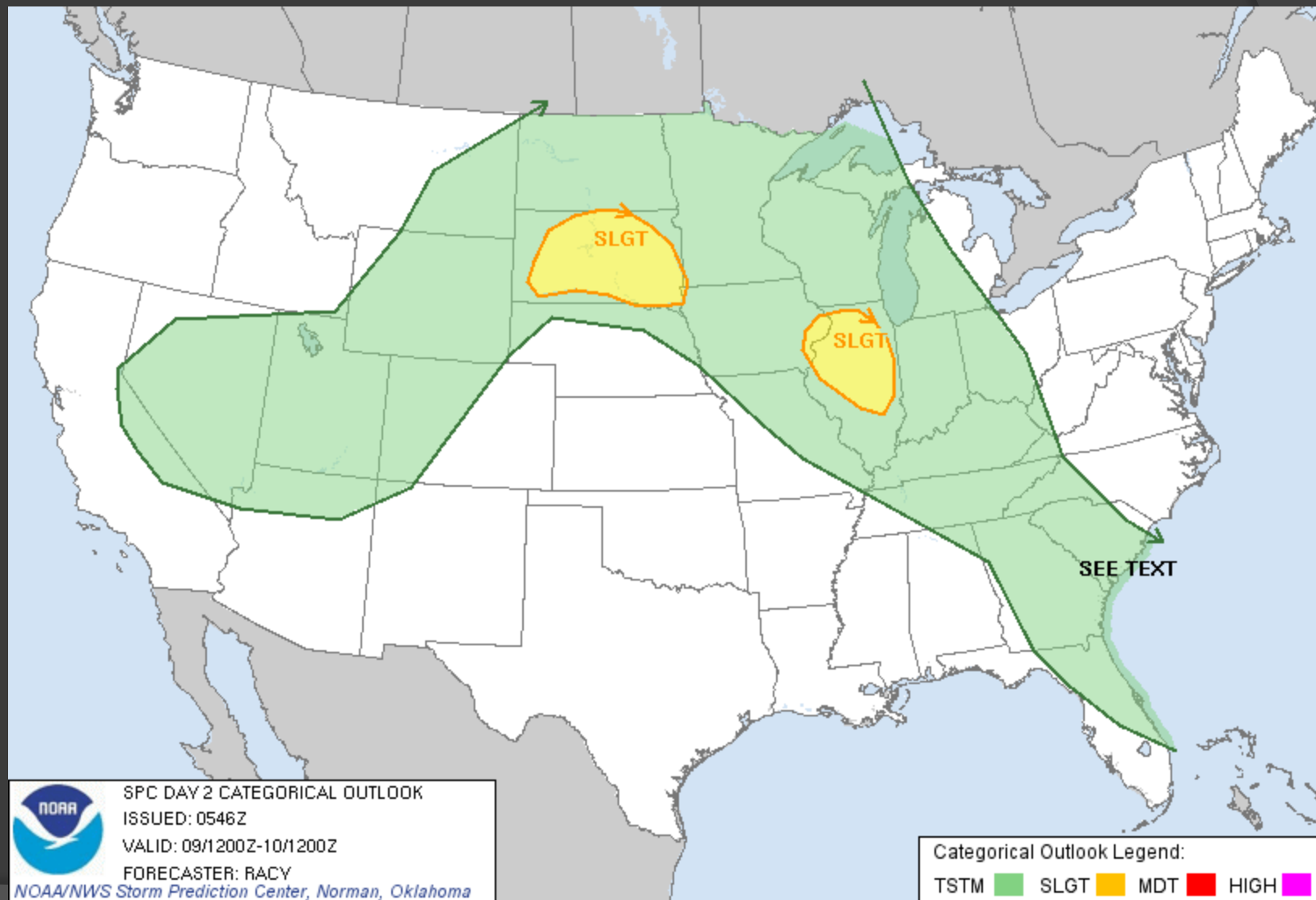


6 hr Accumulated Precipitation (in)

**TWISTER**  
DATA.COM

GFS 48 hr Forecast  
Valid: 2011-05-10 00 UTC  
Initialized: 2011-05-08 00 UTC

# Day 1

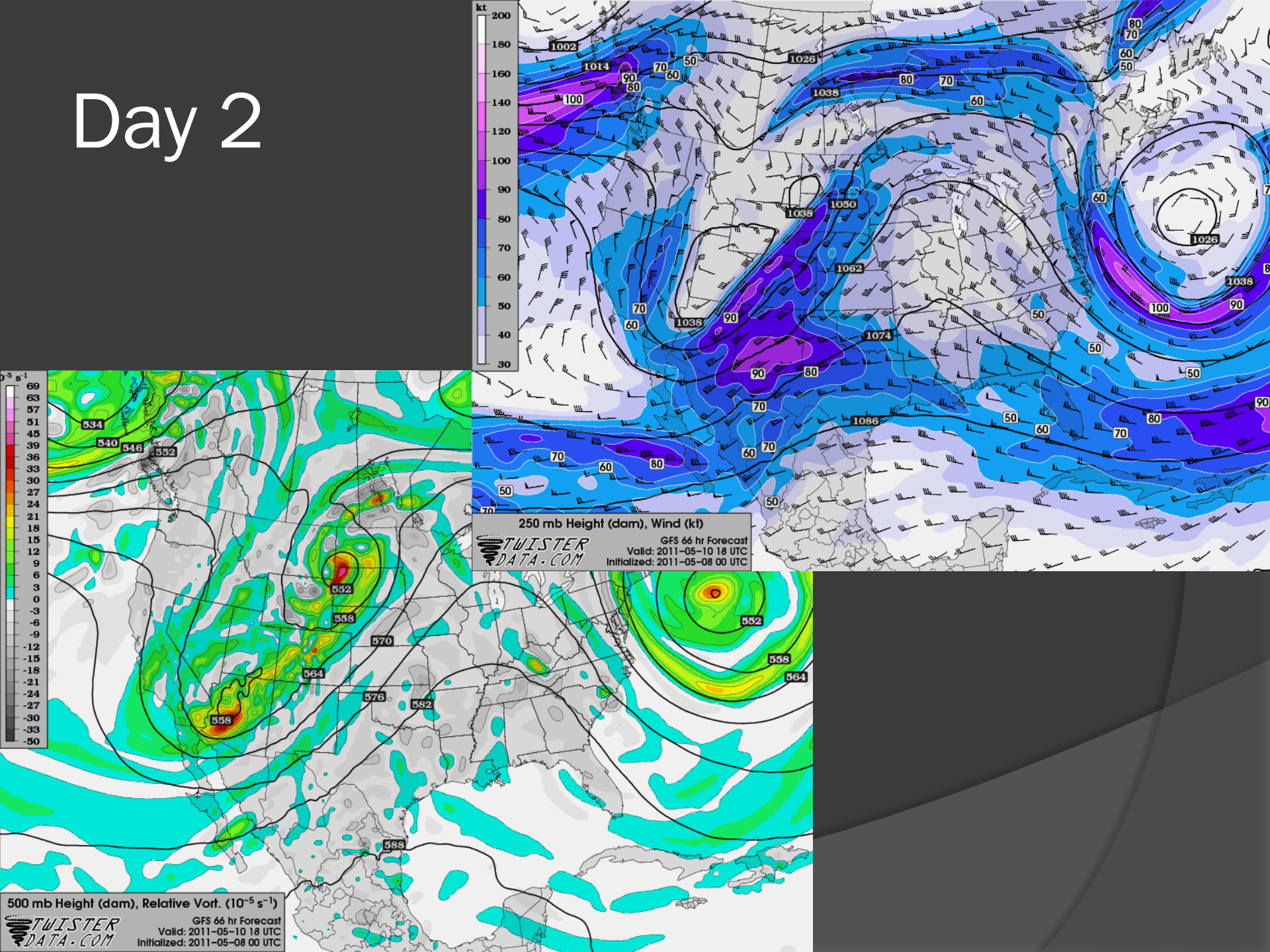




# Day 1 Recap

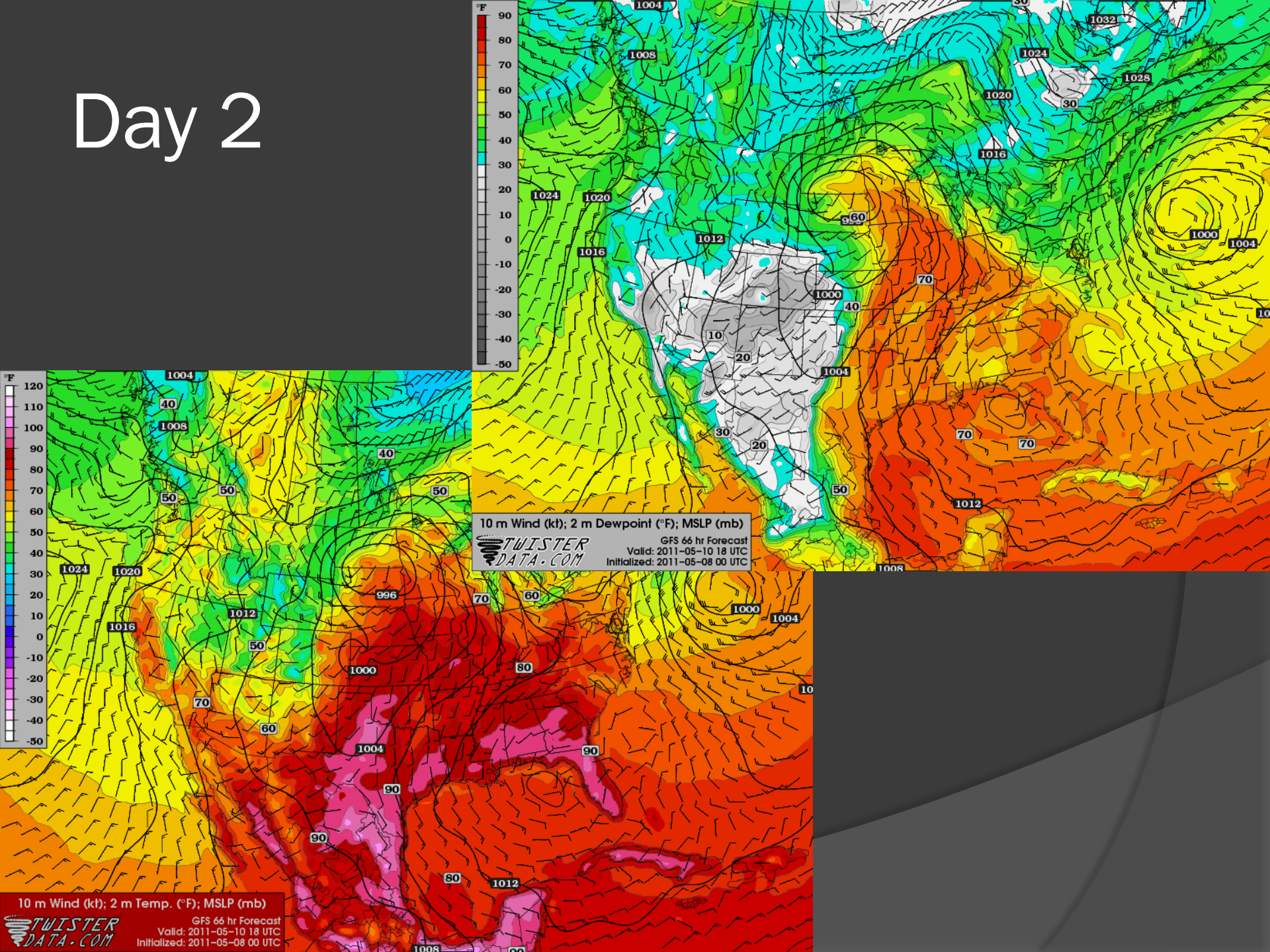
- Still some signs of initiation around 21UTC if we can heat enough
- Vorticity pulse appears a bit better timed with regard to best convective potential hours
- Still, quite low probability of precipitation

# Day 2



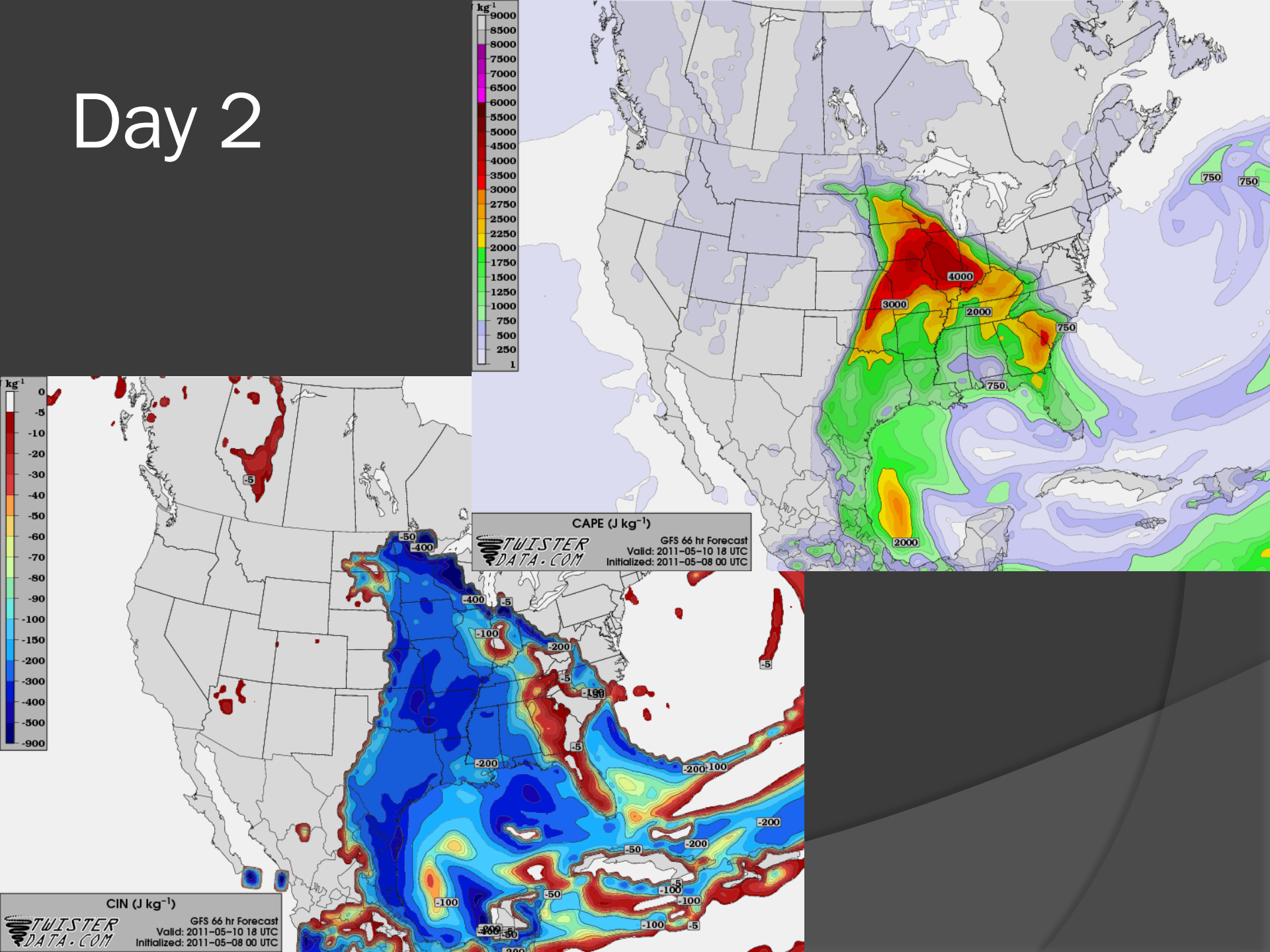


# Day 2

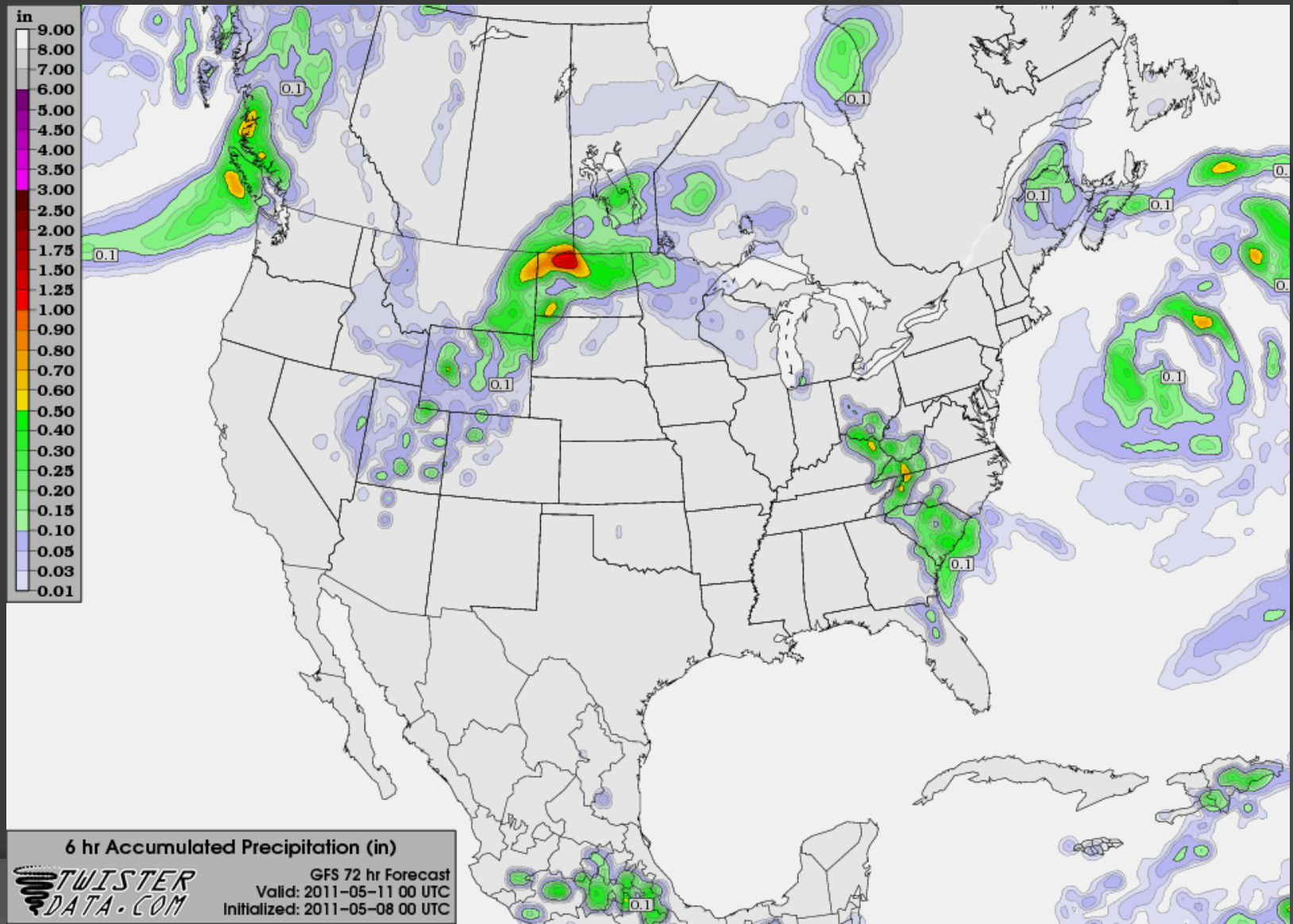




# Day 2



# Day 2

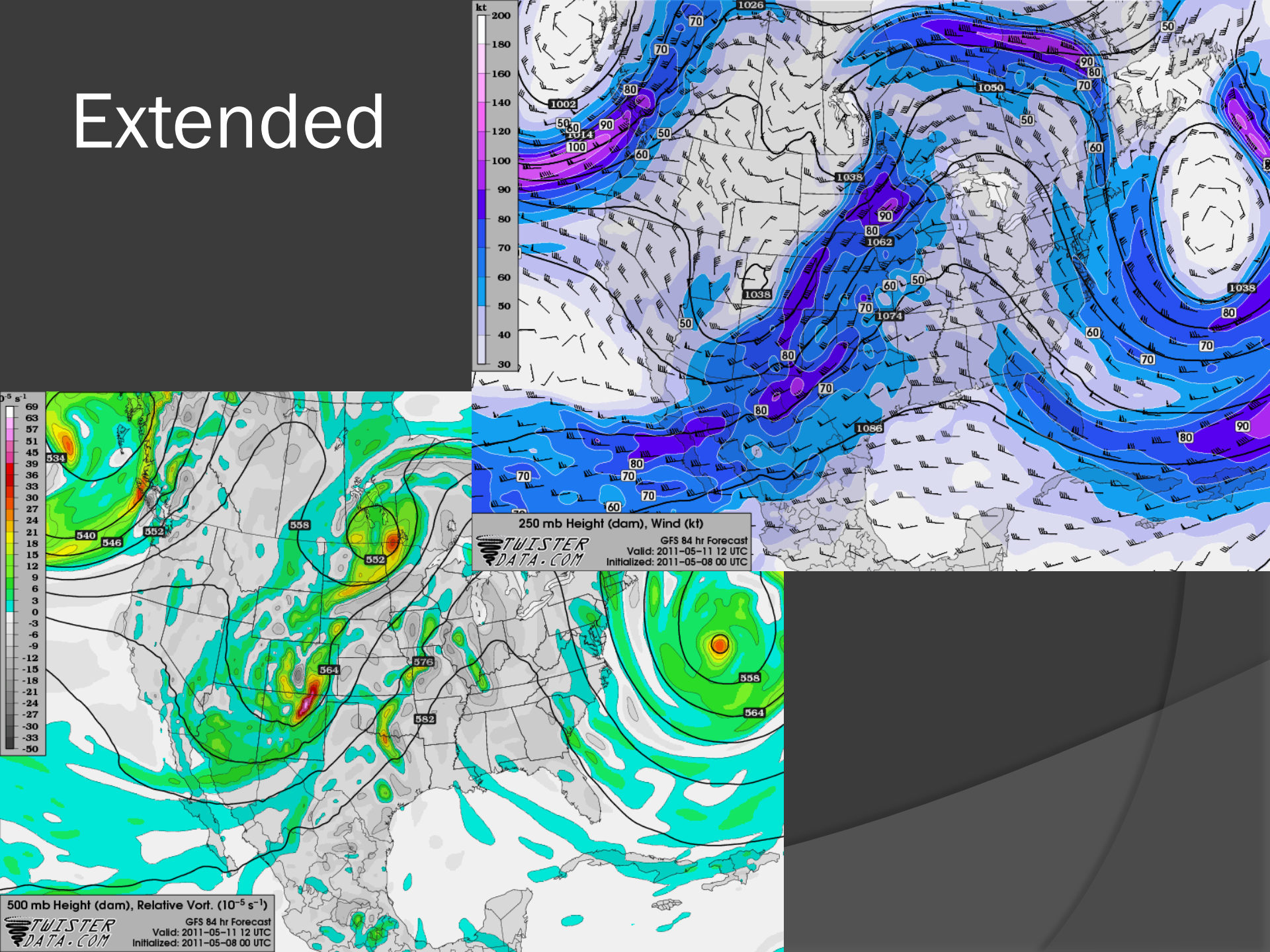


# Day 2 Recap

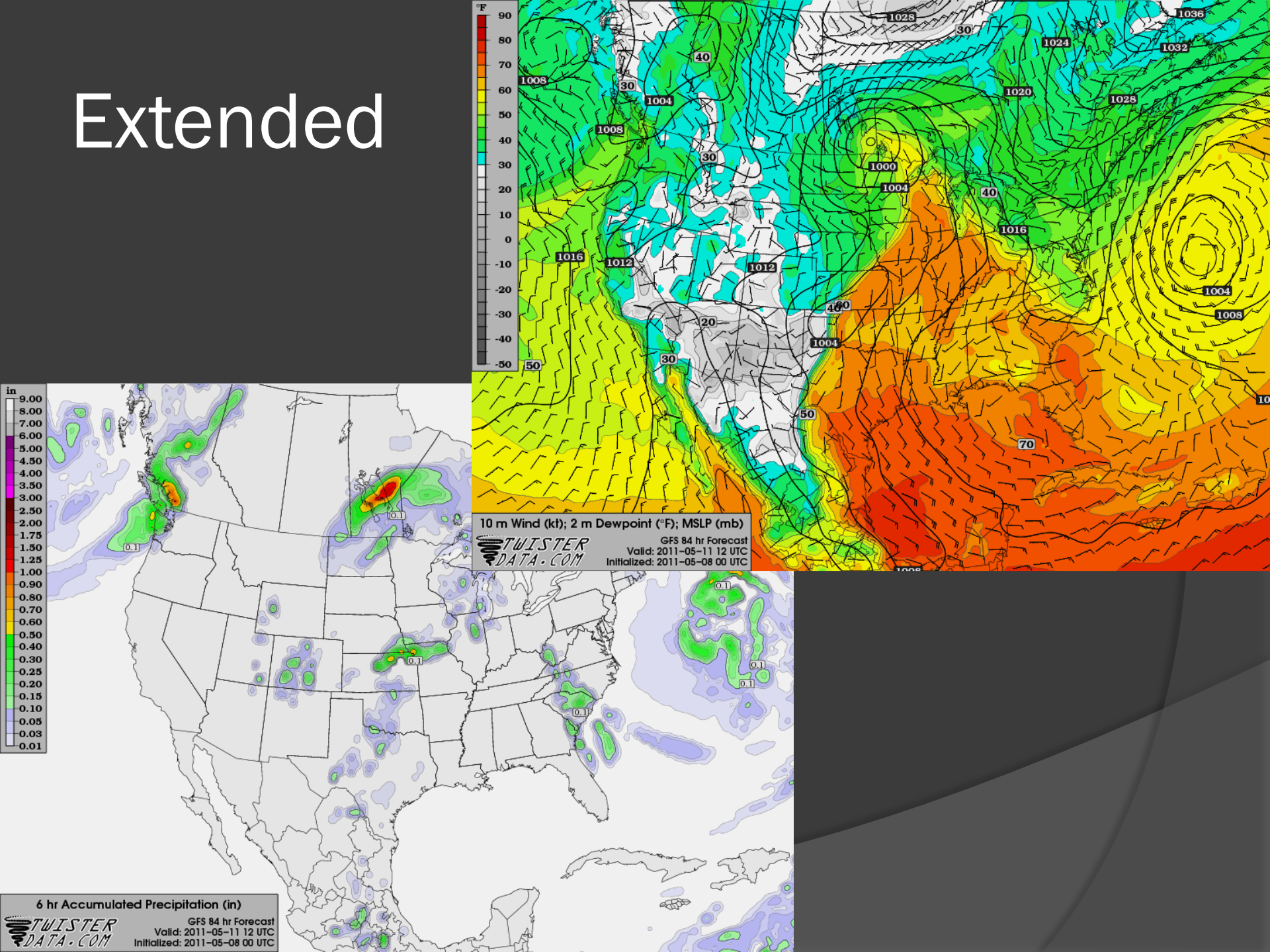
- ⦿ No apparent pulses of vorticity as primary vort max begins motions eastward
- ⦿ Better forcing from the jet than Day 0 or 1
- ⦿ Looks most day unlikely for convection



# Extended

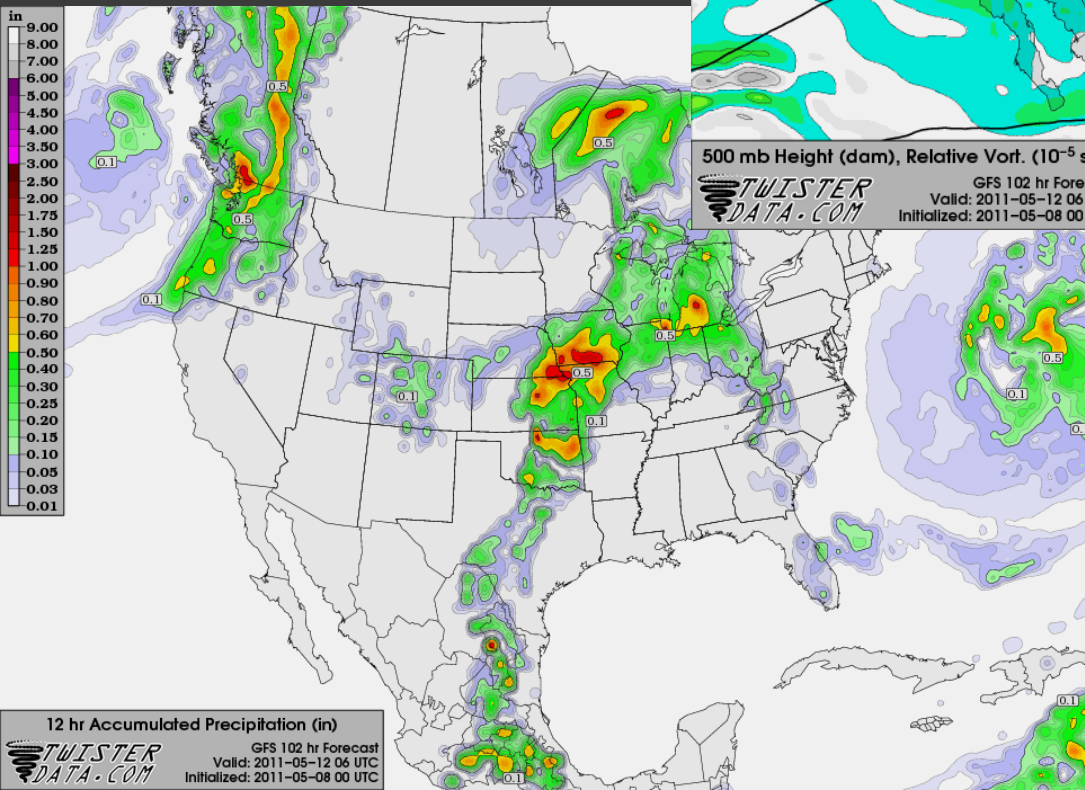
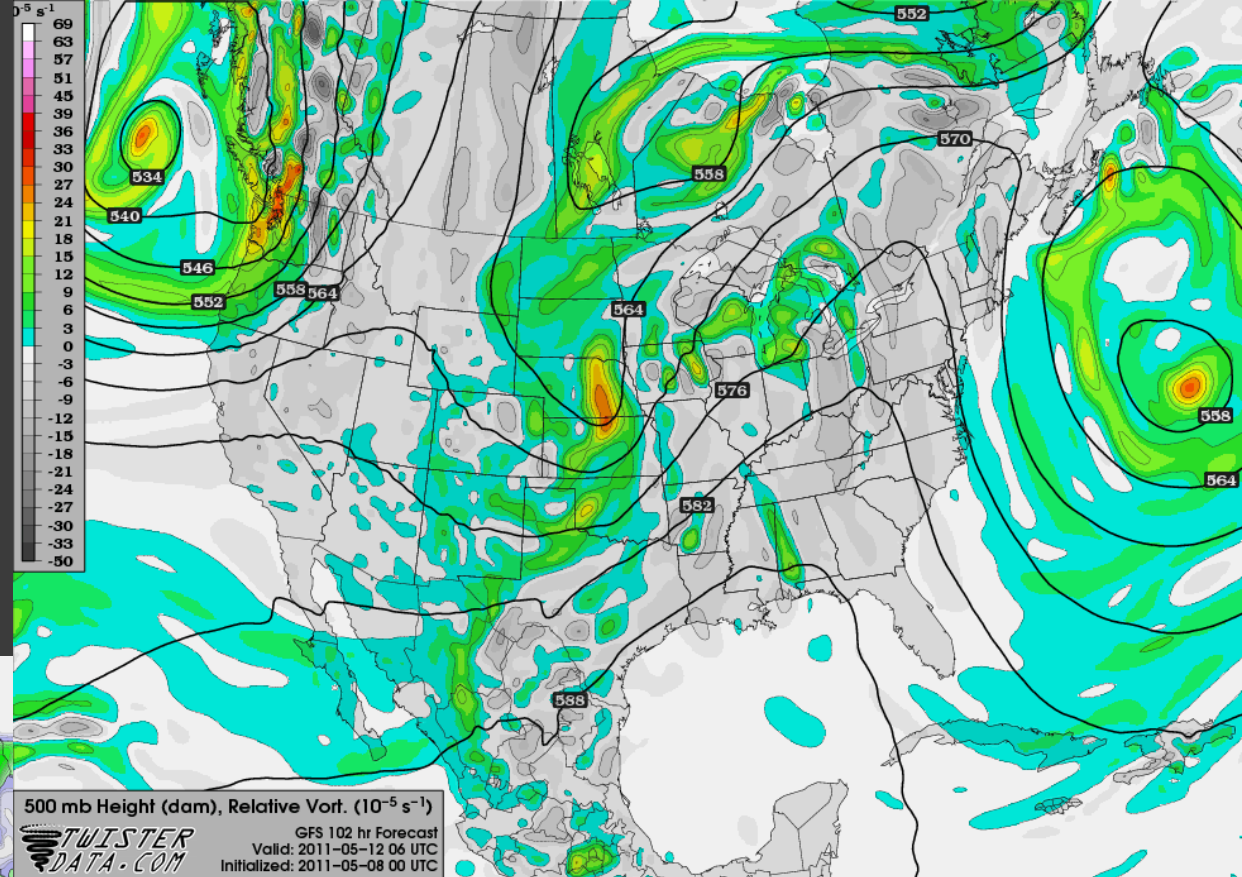


# Extended



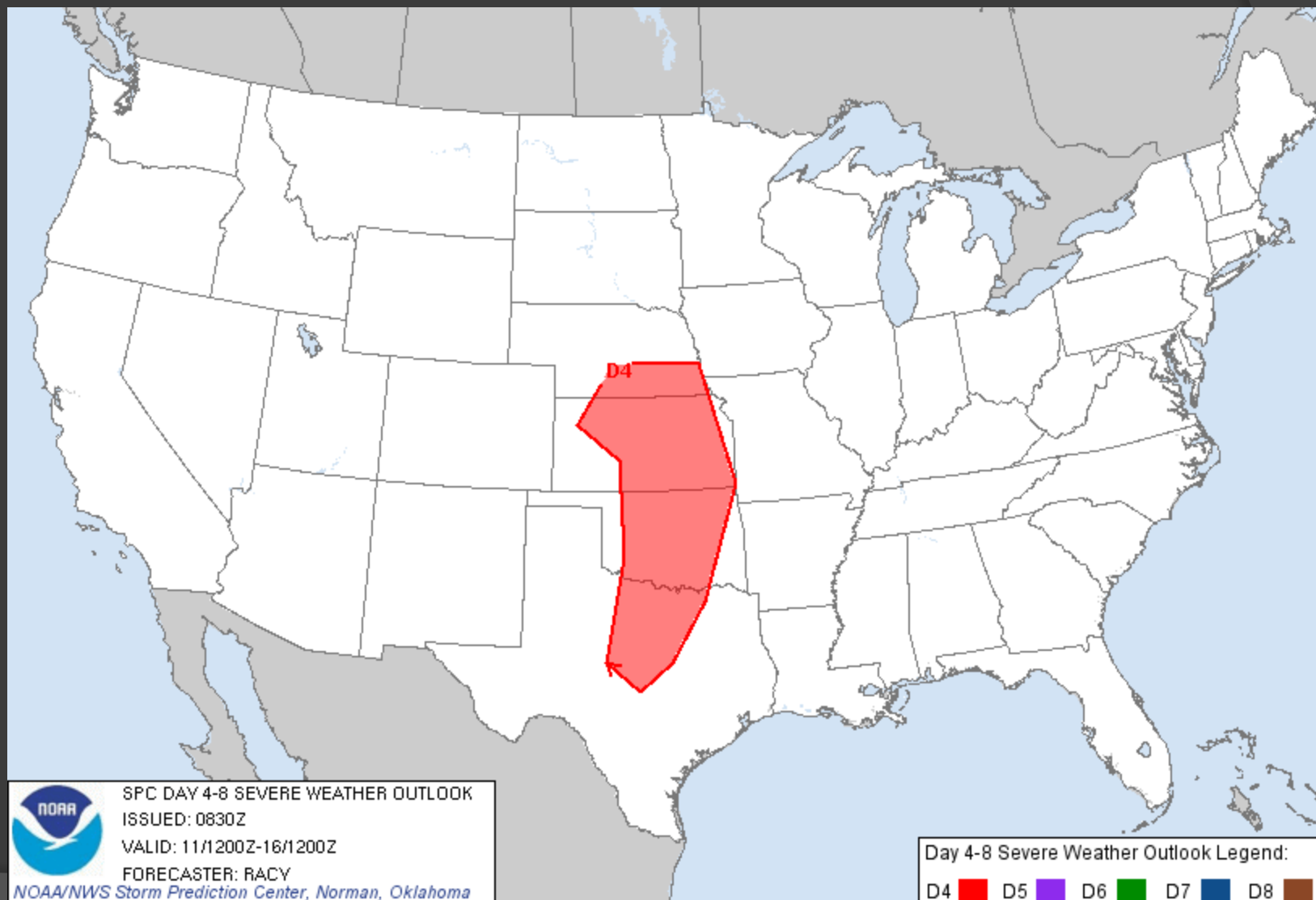


# Extended





# Extended



# Recap

- Day 0 looks less probable than past few days
- Day 1 has some potential with weak 500 hPa vorticity pulse pushing through, though still unlikely
- Day 2 looks like the least likely day for precipitation
- Day 3 brings the vorticity passage and a high likelihood of precipitation – need to carefully watch for precip in Offutt too